Appendix A1. Florida Waterbody Identification Numbers (WBIDs) by EPA Nutrient Watershed Region (NWR)

Appendix A1 contains a list of Florida waterbody identification numbers (WBIDs) organized by EPA's Nutrient Watershed Region (NWR). This list is based on FDEP's WBID map located at FDEP's GIS site (http://www.dep.state.fl.us/gis/datadir.htm, accessed March 2010). The list is being provided in electronic form on CD. For a copy of the CD, please contact EPA's docket office. The docket identification number is EPA-HQ-OW-2009-0596.

The Office of Water (OW) Docket Center is open from 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. The OW Docket Center telephone number is 202-566-1744 and the Docket address is OW Docket, EPA West, Room 3334, 1301 Constitution Ave., NW, Washington, DC 20004.

Appendix A2. FDEP's Process for Assessing Data Usability

Process for Assessing Data Usability

DEP-EA 001/07

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Bureau of Standards and Special Projects
Environmental Assessment Section

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Process for Assessing Data Usability
DEP-EA 001/07

1. **Introduction** - The intent of this document is to outline the process to be used by the Department when evaluating Data Quality Indicators (DQI) and determining the usability of analytical data.

1.1. **The Data Assessment Process** - Determining if data are usable for a particular purpose is a complex task, requiring a reasonable and balanced evaluation of many factors. The procedural components of the usability assessment must be performed by auditors with sufficient scientific expertise in environmental data verification and validation, and include, but are not limited to: Understanding the purpose for auditing the data (project or program data quality objectives provide the context for the audit);

- Identifying the set of data to be audited, the types of analytes or parameters in the data set and the reported values (e.g., concentration) for the analytical results for all components;
- Determining the relationship between each analytical result, the associated decision or action level (e.g., water quality standard or clean up target) and the laboratory's quantitation limit;
- Evaluating the documented calibration, quality control and other supporting data against designated Data Quality Indicators;
- Establishing the pattern, frequency, and magnitude of any failures or other deficiencies associated with the results;
- Determining the extent to which the audited data set fulfills the Data Quality Objectives of the project or Program;
- Evaluating corroborative data (e.g., performance tests, data from other laboratories);
- Providing usability recommendations to the Program data users.

1.2. **Evaluating Data Quality Indicator Failures** - Exceeding the acceptance criteria for one or more Data Quality Indicators does not necessarily mean the data are unusable. The factors mentioned in 1.1 above must be systematically evaluated before a usability decision can be made

1.2.1. The purpose for which the analytical data were collected can vary widely, and may include such diverse activities as: initial screening or scoping studies, permit compliance monitoring, assessing waters for Total Maximum Daily Load development or determining whether a permitted waste facility has met "clean closure" site contamination assessment requirements.

1.2.2. A Data Quality Indicator failure that is acceptable for a screening study may not be acceptable for declaring a site free from contamination.

1.2.3. In practical terms, it is not possible in this document to discuss each potential scenario that might be associated with a data usability recommendation for a particular purpose. Therefore, the factors affecting this decision (outlined in 1.1 and 1.2, above) and the thought process applied to the data usability assessment are addressed by the general principles and examples listed below.

2. **Data Quality Indicators (DQI)** - The following Data Quality Indicators (Sections 3.0 – 16) are targets used in the context of assessing data usability. Depending on a given situation, not all DQIs are applicable to the specific assessment project.

> *Example: To be considered usable, a data submittal to DEP consisting only of high sample concentrations (with no values near the PQL) need not be associated with records demonstrating evaluation or verification of the PQL.*

2.1. The application of DQIs to sample results presumes the random occurrence of non-routine criteria failures to be an expected fact associated with all analyses. The frequency of DQI failures are considered as part of the overall data usability assessment in order to determine those instances where routine or systematic failures indicate a significant data usability problem.

2.2. Use of DQIs with Other Published Criteria - Except as discussed otherwise in this document, sample results are evaluated for usability based on the procedural requirements and performance criteria established by the reported analytical methods, applicable project data quality objectives, applicable regulations, applicable NELAC Quality Systems standards and applicable DEP SOPs for field and laboratory activities (DEP-SOP-001/01 and DEP-SOP-002/01).

2.3. Use of Records to Assess Data Usability - As applicable to the data usability assessment process, any record associated with a reported sample result or set of sample results may be audited, per 62-160.240 & .340, FAC. Both original ("raw") and reduced or summarized versions of data records are inspected in order to determine acceptance of the procedures and performance criteria that are used to generate and evaluate the sample data and associated quality control activities.

2.4. The presence or absence of critical, archival records that support the sample results is considered when determining whether sufficient documentation is available to assess the usability of the data.

3. **Laboratory Control Sample or Spike (LCS)** –In order of preference, LCS data are evaluated rather than matrix spike data (MS), if both types of data are generated for the associated sample preparation batch. However, the MS data are also used to evaluate the recoveries of the analytes for the parent sample and may affect the usability of the parent sample result.

3.1. General Requirements

3.1.1. An LCS result is linked or associated with all applicable reported sample results for the same preparation batch or analytical sequence of 20 samples or less.

3.1.2. The LCS contains all of the analytes of interest for the method or project, or the mix of analytes in the LCS is rotated at a routine frequency as suggested in the NELAC Quality Systems standard in Appendix D.

3.1.3. If a preparation step (such as digestion or extraction) is required for the analysis method, the LCS is prepared identically with and at the same time as the associated samples in the preparation batch.

3.1.4. The LCS is analyzed or reanalyzed within a verified calibration bracket (analytical sequence see Section 8.2.2 for the definition).

3.1.5. All reanalyses are documented with a valid explanation of the systematic error that prompted the reanalyses.

3.1.6. The concentration of the LCS is analyzed to be within the calibration range for the instrument as established by the concentrations of the standards used for the initial calibration and continuing calibration verifications.

3.1.7. Where applicable, the LCS is prepared at the method-specified concentration or at a concentration appropriate for the project data quality objective.

3.2. **Evaluation of LCS Recovery** - Where applicable, the control limits for the LCS are established by the laboratory for a specified matrix at ± 3X the standard deviation of the mean recovery of the cumulative LCS analyses at a specified concentration. Alternatively, the recovery control limits are established by linear regression for a range of concentrations using cumulative recovery data. The mean recovery is calculated or regression analysis is applied after outliers are eliminated from the recovery data set using any appropriate statistical test for outliers and after outliers due to known systematic errors are also censored from the data set. The mean recovery is recalculated or linear regression is reanalyzed if trend monitoring of individual LCS recoveries indicates that a systematic bias has developed and corrective action is needed.

3.2.1. Alternatively, control limits are established by the laboratory using other technically justifiable and scientifically sound procedures in accordance with project data quality objectives.

3.2.2. Where applicable, criteria established by rule, reported method or project data quality objectives are used to evaluate the LCS recoveries.

3.2.3. If no other criteria are applicable, the following control limits are used to evaluate the LCS recoveries:

80% - 120% (water) for Nitrate, Nitrite, Nitrate + Nitrite, Ammonium, TKN, Total Phosphorus, Orthophosphate

85% - 115% (water) for Metals

Laboratory Control Limits for:

All Organic analytes for the LCS in any matrix

All other analytes amenable to spiking for the LCS in water

All analytes amenable to spiking for the LCS in non-aqueous matrices

3.2.4. When applicable, sample results reported with failed LCS recoveries are documented with a valid explanation of the systematic error that occurred.

3.2.5. Analytes or methods technically not amenable to spiking for recovery determinations are not evaluated.

4. **Matrix Spikes (MS)** - Method-specified criteria are used to evaluate the MS, where applicable. If no LCS data is available for the sample preparation batch or analytical sequence being evaluated, the MS data is used to evaluate method control for all of the associated samples in the batch or sequence.

4.1. General Requirements

4.1.1. The MS contains all of the analytes of interest for the method or project, or the mix of analytes in the MS is rotated at a routine frequency as suggested in the NELAC Quality Systems standard in Appendix D.

4.1.2. If a preparation step (such as digestion or extraction) is required for the analysis method, the MS is prepared identically with and at the same time as the associated samples in the preparation batch.

4.1.3. The MS is analyzed or reanalyzed within a verified calibration bracket (analytical sequence).

4.1.4. All reanalyses are documented with a valid explanation of the systematic error that prompted the reanalyses.

4.1.5. The concentration of the MS is analyzed to be within the calibration range for the instrument as established by the concentrations of the standards used for the initial calibration and continuing calibration verifications.

4.1.6. Where applicable, the MS is spiked at the method-specified concentration or at a concentration appropriate for the project data quality objective.

4.2. Evaluation of MS Recovery

4.2.1. The MS spike concentration is compared with the un-spiked, parent-sample concentration. The suitability of the spike concentration is evaluated on a case-by-case basis according to method specifications or project data quality objectives.

4.2.2. MS recovery data is evaluated if specified by applicable data quality objectives, but the recovery of the MS is only associated with the parent sample, unless no LCS is associated with the preparation batch or analytical sequence of 20 samples or less. In this case, the MS recovery is associated with all of the samples in the preparation batch or analytical sequence of 20 samples or less for evaluation of sample data usability.

4.2.3. Where applicable, the control limits for the MS are established by the laboratory for a specified matrix at ± 3X the standard deviation of the mean recovery of the cumulative MS analyses for the associated matrix at a specified concentration. Alternatively, the recovery control limits are established by linear regression for a range of concentrations for the associated matrix using cumulative recovery data. The mean recovery is calculated or regression analysis is applied after outliers are eliminated from the recovery data set using any appropriate statistical test for outliers and after outliers due to known systematic errors are also censored from the data set. The mean recovery is recalculated or linear regression is reanalyzed if trend monitoring of individual MS recoveries indicates that a systematic bias has developed and corrective action is needed.

4.2.4. Alternatively, control limits are established by the laboratory using other technically justifiable and scientifically sound procedures in accordance with project data quality objectives.

4.2.5. If the MS is used to evaluate all associated batch samples, the applicable LCS criteria are used to evaluate the MS recovery.

4.2.6. Where applicable, criteria established by rule, reported method or project data quality objectives are used to evaluate the MS recoveries.

4.2.7. If no other criteria are applicable, the following control limits are used to evaluate the MS recoveries:

80% - 120% (water) for Nitrate, Nitrite, Nitrate + Nitrite, Ammonium, TKN, Total Phosphorus, Orthophosphate

70% - 130% (water) for Metals

Laboratory Control Limits

All Organic analytes at any concentration

All other analytes amenable to spiking at any concentration

All analytes in non-aqueous matrices

4.2.8. When applicable, sample results reported with failed MS recoveries are documented with a valid explanation of the systematic error that occurred.

4.2.9. Analytes or methods technically not amenable to spiking for recovery determinations are not evaluated.

5. **Surrogate Spikes** - Surrogate spikes are evaluated according to method-specified requirements and the NELAC Quality Systems standards (Chapter 5 and Appendix D).

5.1. The concentration of the surrogate spike is analyzed to be within the initial calibration range established for the instrument.

5.2. When applicable, sample results reported with failed surrogate spike recoveries are documented with a valid explanation of the systematic error that occurred.

5.3. Analytes or methods technically not amenable to spiking for recovery determinations are not evaluated.

6. **LCS Duplicates or Replicates (LCSD) and Matrix Spike Duplicates (MSD)** - In order of preference, LCSD data are evaluated rather than MSD data, if both types of data are generated for the associated samples. However, the MSD data are also used to evaluate the precision of the analytes for the parent sample and may affect the usability of the parent sample result.

6.1. General Requirements

6.1.1. When applicable, replicate rather than duplicate LCS/MS data are evaluated for precision control.

6.1.2. An LCSD/MSD result is linked or associated with all applicable reported sample results for the same preparation batch or analytical sequence of 20 samples or less.

6.1.3. The LCSD/MSD contains all of the analytes of interest for the method or project, or the mix of analytes in the LCSD is rotated at a routine frequency as suggested in the NELAC Quality Systems standard in Appendix D.

6.1.4. If a preparation step (such as digestion or extraction) is required for the analysis method, the LCSD/MSD is prepared identically with and at the same time as the associated samples in the preparation batch.

6.1.5. The LCSD/MSD is analyzed or reanalyzed within a verified calibration bracket (analytical sequence).

6.1.6. All reanalyses are documented with a valid explanation of the systematic error that prompted the reanalyses.

6.1.7. The concentration of the LCSD/MSD is analyzed to be within the calibration range for the instrument as established by the concentrations of the standards used for the initial calibration and continuing calibration verifications.

6.1.8. Where applicable to the evaluation, the MSD spike concentration is compared with the un-spiked, parent-sample concentration. The suitability of the spike concentration is evaluated on a case-by-case basis according to method specifications or project data quality objectives.

6.2. Evaluation of Duplicates

6.2.1. Where applicable, the control limits for the LCSD/MSD are established by the laboratory for a specified matrix at ≤3X the standard deviation of the mean precision (absolute or relative) of the cumulative LCSD analyses for the associated matrix at a specified concentration. Alternatively, the precision control limits are established by linear regression for a range of concentrations for the associated matrix using cumulative precision data. The mean precision is calculated or regression analysis is applied after outliers are eliminated from the precision data set using any appropriate

6.2.2. Alternatively, control limits are established by the laboratory using other technically justifiable and scientifically sound procedures in accordance with project data quality objectives.

6.2.3. Where applicable, criteria established by rule, reported method or project data quality objectives are used to evaluate the LCSD/MSD precision.

6.2.4. If no other criteria are applicable, precision data for the LCSD/MSD are evaluated using the laboratory control limits, with a target precision of ≤20% RPD or RSD for water samples and ≤40% RPD or RSD for non-aqueous and solid-matrix samples.

6.2.5. When applicable, sample results reported with failed LCSD/MSD precision are documented with a valid explanation of the systematic error that occurred.

6.2.6. Analytes or methods technically not amenable to precision determinations are not evaluated.

7. Sample Duplicates (SD)

7.1. General Requirements

7.1.1. Sample matrix duplicates are evaluated for the analytes present in the sample if no LCSD/MSD data is available or if required by the method or project data quality objectives.

7.1.2. When applicable, replicate rather than duplicate sample data are evaluated for precision control.

7.1.3. If a preparation step (such as digestion or extraction) is required for the analysis method, the SD is prepared identically with and at the same time as the associated samples in the preparation batch.

7.1.4. If no LCSD/MSD is available for evaluation, an SD result is linked or associated with all applicable reported sample results for the same preparation batch or analytical sequence of 20 samples or less.

7.1.5. The SD is analyzed or reanalyzed within a verified calibration bracket (analytical sequence).

7.1.6. All reanalyses are documented with a valid explanation of the systematic error that prompted the reanalyses.

7.1.7. The concentration of the SD is analyzed to be within the calibration range for the instrument as established by the concentrations of the standards used for the initial calibration and continuing calibration verifications.

7.2. Evaluation of Sample Duplicates

7.2.1. Where applicable, the control limits for the SD are established by the laboratory for a specified matrix at ≤3X the standard deviation of the mean precision (absolute or relative) of the cumulative SD analyses for the associated matrix at a specified concentration. Alternatively, the precision control limits are established by linear regression for a range of concentrations for the associated matrix using cumulative precision data. The mean precision is calculated or regression analysis is applied after outliers are eliminated from the precision data set using any appropriate statistical test for outliers and after outliers due to known systematic errors are also censored from the data set. The mean precision is recalculated or linear regression is reanalyzed if trend

7.2.2. Alternatively, control limits are established by the laboratory using other technically justifiable and scientifically sound procedures in accordance with project data quality objectives.

7.2.3. Where applicable, criteria established by rule, reported method or project data quality objectives are used to evaluate the SD precision.

7.2.4. If no other criteria are applicable, precision data for the SD are evaluated using the laboratory control limits, with a target precision of ≤20% RPD or RSD for water samples and ≤40% RPD or RSD for non-aqueous and solid-matrix samples.

7.2.5. When applicable, sample results reported with failed SD precision are documented with a valid explanation of the systematic error that occurred.

7.2.6. Analytes or methods technically not amenable to precision determinations are not evaluated.

8. **Calibrations -** Except as discussed elsewhere in this document, all calibrations are evaluated according to method-specified requirements and applicable NELAC Quality Systems standards.

8.1. Initial Calibration

8.1.1. The number of standard concentrations specified by the method or project data quality objectives is used to perform the initial calibration of the instrument or technique.

8.1.2. Where applicable, the concentration values specified by the method or project data quality objectives are used to perform the initial calibration of the instrument or technique.

8.1.3. If not specified by the method or project objectives and when applicable to the analytical technology, at least two standard concentrations and a blank are used for a linear calibration curve.

8.1.4. The acceptance of the initial calibration is evaluated using the method-specified criteria or the criteria specified by the project data quality objectives.

8.1.5. If not specified by the method or project data quality objectives and when applicable to the analytical technology:

- The correlation coefficient for a regression is ≥0.995 when applied to the linear calibration curve.
- Higher-order calibration curve regressions have a coefficient of determination of ≥0.99, using 6 calibration points for a second order curve and 7 calibration points for a third order curve. The calibration points used for the curve include a result for the calibration blank.

8.1.6. Where applicable, the initial calibration range is extended by an accepted calibration verification.

8.1.7. Unless allowed by the method or project data quality objectives, applicable sample results whose analyzed concentrations fall outside of the calibration range established by the standard concentrations used for the initial calibration (excluding the calibration blank) and calibration verifications are not usable without further evaluation or qualification.

8.2. Calibration Verification (CV)

8.2.1. At least one verification standard is from a second source as indicated in the applicable NELAC Quality Systems standard for initial calibrations.

8.2.2. An acceptable calibration verification is analyzed at the beginning and end of the analytical batch (verified calibration bracket) or as otherwise required by the applicable NELAC Quality Systems standard for continuing calibration verifications.

8.2.3. The analytical batch is determined as defined by the applicable NELAC Quality Systems standard.

8.2.4. As applicable or when specified by rule or project data quality objectives, the calibration verification standard is analyzed at the method-specified frequency.

8.2.5. As applicable or when specified by rule or project data quality objectives, the calibration verification result is evaluated using the method-specified criteria.

8.2.6. In the absence of acceptance criteria specified by rule, project data quality objectives or method, and where applicable, the control limits for the CV are established by the laboratory for a specified matrix at ± 3X the standard deviation of the mean recovery of the cumulative CV analyses at a specified concentration. For this purpose, recovery is defined as the percent of expected concentration analyzed for the CV standard. The mean recovery is calculated after outliers are eliminated from the recovery data set using any appropriate statistical test for outliers and after outliers due to known systematic errors are also censored from the data set. The mean recovery is recalculated if trend monitoring of individual CV recoveries indicates that a systematic bias has developed and corrective action is needed.

8.2.7. Alternatively, control limits are established by the laboratory using other technically justifiable and scientifically sound procedures in accordance with project data quality objectives.

8.2.8. If a continuing calibration verification did not meet the acceptance criterion, but is immediately reanalyzed with acceptable results, the samples analyzed before the failed verification result are valid, provided that the verification previous to the failed verification and following the reanalyzed verification are also acceptable and comprise a verified calibration bracket or analytical batch.

8.2.9. Sample results that are not analyzed within a verified analytical batch or calibration bracket are reanalyzed or qualified as estimated values.

8.2.10. Alternatively, for purposes of assessing the usability of the sample data where verifications have failed and where the reported sample values are relevant to the regulatory action level, compliance limit or other project data quality objective, the failed continuing calibration verifications are evaluated for potential high or low bias according to the applicable NELAC Quality Systems standards for calibration verifications.

9. **Method Blanks or Other Analytical Blanks -** All method blanks and other types of analytical blanks use to control analytical contamination are evaluated for the presence of the analytes of interest for the project or method.

9.1. A blank result is linked or associated with all applicable reported sample results for the same preparation batch or analytical sequence of 20 samples or less.

9.2. If a preparation step (such as digestion or extraction) is required for the analysis method, at least one blank is prepared identically with and at the same time as the associated samples in the preparation batch.

9.3. The blank is analyzed or reanalyzed within a verified calibration bracket (analytical sequence).

9.4. All reanalyses are documented with a valid explanation of the systematic error that prompted the reanalyses.

9.5. Unless specified otherwise by rule, an applicable analytical method or project data quality objectives, it is expected that the concentration of analytes detected in the blank (above the reported MDL) will be less than 10% of the concentration in the individual samples of the associated preparation batch or analytical sequence (for the affected analytes).

9.6. Where samples are diluted for analysis, the evaluation of the blank results is considered with respect to the dilution factors associated with the samples.

9.7. BOD method blanks are evaluated against the method criterion.

9.8. No colonies are reported in bacteriological method blanks.

10. **Field Quality Control Blanks (Trip Blanks, Field Blanks or Equipment Blanks)** - Field QC Blanks associated with the samples for a specific sampling event are evaluated for contamination as indicated by the presence of the analytes of interest for the project or method.

10.1. If a preparation step (such as digestion or extraction) is required for the analysis method, the blank is prepared identically as the associated samples in the preparation batch.

10.2. The blank is analyzed or reanalyzed within a verified calibration bracket (analytical sequence).

10.3. Unless specified otherwise by rule, an applicable analytical method or project data quality objectives, it is expected that the concentration of analytes detected in the blank (above the reported MDL) will be less than 10% of the concentration in the associated field sample (for the affected analytes).

10.4. Where samples are diluted for analysis, the evaluation of the blank results is considered with respect to the dilution factors associated with the samples.

11. **Holding Times** - Holding times as specified in the tables in FS 1000 of the DEP SOPs are met.

11.1. For those analytes where there is no separate holding time specified for the extract, digestate or other processed sample, the holding period ends when the sample processing begins.

11.2. Holding times that are specified in “hours” are met if the sample processing (e.g., extraction, digestion, filtration, etc) or analysis, as applicable, begins within the last hour of the specified holding time, accounting for the time zone in which the sample was collected.

> *Example: For a sample with a 24-hour holding time that was collected at 14:15 on May 20, 2007, the sample is within holding time if the sample is processed before 15:15 on May 21, 2007.*

11.3. Holding times that are specified in “days” are met if the sample processing begins before 24:00 on the final day, accounting for the time zone in which the sample was collected.

11.4. Clarifications

11.4.1. For microbiology, the holding time is evaluated as the duration between the sample collection date and time and the date and time of the placement of the processed sample into or on the applicable growth medium.

11.4.2. For BOD or CBOD, the holding time is evaluated as the duration between the sample collection date and time and the date and time of the initial DO measurement for the test.

11.4.3. For toxicity testing, the holding time is evaluated as the duration between the sample collection date and time and the date and time of introduction of the last individual test organism into a test sample.

12. **Quality Control Check Samples** – The following criteria are used to evaluate specific quality control check samples for the indicated test.

12.1. BOD Analyses

12.1.1. For each preparation batch of 20 samples or less, glucose-glutamic acid (GGA) samples are analyzed to obtain values within the method-specified acceptance control limits.

12.1.2. Alternatively, per approved revisions to SM 5210 B, other compounds are used to control the method, when applicable to a specific wastewater effluent.

12.1.3. In order of preference, replicate check sample data are evaluated rather than sample replicate data, if both types of data are generated for the associated samples.

12.1.4. Precision data for the replicate check sample analyses are evaluated using the laboratory control limits, with a target precision of ≤20% RPD or RSD expected.

12.1.5. Where applicable, the control limits for the replicate check sample analyses are established by the laboratory at ≤3X the standard deviation of the mean precision (absolute or relative) of the cumulative check sample analyses. The mean precision is calculated after outliers are eliminated from the precision data set using any appropriate statistical test for outliers and after outliers due to known systematic errors are also censored from the data set. The mean precision is recalculated if trend monitoring of individual check sample results indicates that a systematic error has occurred and corrective action is needed.

12.1.6. Alternatively, control limits are established by the laboratory using other technically justifiable and scientifically sound procedures in accordance with project data quality objectives.

12.1.7. When applicable, sample results reported with failed check sample precision are documented with a valid explanation of the systematic error that occurred.

12.2. Chlorophyll Analyses

12.2.1. For each preparation batch of 20 samples or less, or at least once every three months, a chlorophyll extract solution in acetone is analyzed to evaluate recovery at the concentration for the extract.

12.2.2. A vendor-assayed source of chlorophyll is used to prepare the check sample extract.

12.2.3. The concentration of the check sample extract is such that when extrapolated to the volume of a nominal whole-water concentration, the extract appropriately represents the estimated reporting limit for the whole water sample.

12.2.4. The check-sample results at the extract concentration are evaluated using control limits established by the laboratory.

12.2.5. The control limits for the extract check-sample solution are established by the laboratory at ± 3X the standard deviation of the mean result of the cumulative check-sample analyses expressed as a percentage of the expected value of the check-sample concentration. The mean result is calculated after outliers are eliminated from the check-sample data set using any appropriate statistical test for outliers and after outliers due to known systematic errors are also censored from the data set. The mean result is recalculated if trend monitoring of individual check-sample results indicates that a systematic bias has developed and corrective action is needed.

12.2.6. Alternatively, control limits are established by the laboratory using other technically justifiable and scientifically sound procedures in accordance with project data quality objectives.

12.3. **Matrix-Specific Evaluation for Known or Suspected Interferences** - An example of typical interferences of concern to DEP is the analyses for trace metal concentrations in seawater.

12.3.1. When applicable to the project data quality objectives and when technically feasible, known or suspected interferences in the matrix specific to the project analytes and samples are evaluated using quality control (QC) samples of known matrix composition and analyte concentration.

12.3.2. The QC sample result is linked or associated with all applicable reported field sample results for the same preparation batch or analytical sequence of 20 samples or less.

12.3.3. The composition of the matrix for the QC sample is controlled for the analytes and interferences of interest and closely matches or approximates the matrix of the associated field samples.

12.3.4. A naturally derived or artificially formulated matrix is used to prepare the QC sample.

12.3.5. The QC sample is prepared by the analyzing laboratory using a second source standard for the analyte of interest. The second-source standard is selected as indicated in the NELAC Quality Systems standard for initial calibrations.

12.3.6. Alternatively, the QC sample is obtained from an external source such as a commercial vendor of QC-check samples or Standard Reference Materials.

12.3.7. Where applicable, the QC sample is prepared at the method-specified concentration or at a concentration selected according to project data quality objectives.

12.3.8. Where applicable, the concentration of the QC sample is evaluated against any data quality objectives for minimum quantitation level applicable to the data use and does not exceed 2X the minimum quantitation level.

12.3.9. If a preparation step (such as digestion or extraction) is required for the analysis method, the QC sample is prepared identically with and at the same time as the associated samples in the preparation batch.

12.3.10. The QC sample is analyzed or reanalyzed within a verified calibration bracket (analytical sequence).

12.3.11. All reanalyses are documented with a valid explanation of the systematic error that prompted the reanalyses.

12.3.12. The concentration of the QC sample is analyzed to be within the calibration range for the instrument as established by the concentrations of the standards used for the initial calibration and continuing calibration verifications.

12.3.13. As applicable, the recovery for the QC sample is evaluated using method-specified criteria, vendor-specified criteria, or control limits established by the laboratory.

12.3.14. Where applicable, the control limits for the QC sample are established by the laboratory for a specified matrix at ± 3X the standard deviation of the mean recovery of the cumulative QC sample analyses at a specified concentration. Alternatively, the recovery control limits are established by linear regression for a range of concentrations using cumulative recovery data. The mean recovery is calculated or regression analysis is applied after outliers are eliminated from the recovery data set using any appropriate statistical test for outliers and after outliers due to known systematic errors are also

censored from the data set. The mean recovery is recalculated or linear regression is reanalyzed if trend monitoring of individual QC sample recoveries indicates that a systematic bias has developed and corrective action is needed.

12.3.15. Alternatively, control limits are established by the laboratory using other technically justifiable and scientifically sound procedures in accordance with project data quality objectives.

12.3.16. When applicable, sample results reported with failed QC sample recoveries are documented with a valid explanation of the systematic error that occurred.

13. Sample Preservation Checks

13.1. The field records demonstrate positive indication that the samples are properly preserved (including thermal preservation).

13.2. The laboratory records demonstrate that proper thermal preservation was checked upon receipt at the laboratory, per the instructions in the NELAC Quality Systems standards.

13.3. The laboratory records demonstrate that samples that have been collected on the same day and hand-delivered are received at the laboratory in ice if the temperature check fails the applicable rule or method requirement.

13.4. The laboratory records demonstrate positive indication that the samples are checked for proper chemical preservation prior to or during sample preparation or analysis.

14. Evaluation of the Reported MDL

14.1. If no analyte is detected in the evaluated sample, the assessment of sample data usability includes establishing that the laboratory determined, evaluated and verified the reported MDL for the analyte according to the requirements in the applicable NELAC Quality Systems standards, regulatory requirement or reported method.

14.2. The MDL determination, evaluation and verification are considered when establishing the usability of the sample data where the reported MDL is relevant to the regulatory action level, compliance limit or other project data quality objective.

14.3. For the purposes of data usability evaluation, the DEP-defined MDL is equivalent to the NELAC-defined LOD.

15. Evaluation of the Reported PQL

15.1. If the concentration of the evaluated sample is below the concentration value of the reported PQL or is below the concentration value of the lowest initial calibration standard or continuing calibration verification standard associated with the sample, the assessment of sample data usability includes establishing that the laboratory determined, evaluated and verified the reported PQL for the analyte according to the requirements in the applicable NELAC Quality Systems standards.

15.2. The PQL determination, evaluation and verification are considered when establishing the usability of the sample data where the reported PQL is relevant to the regulatory action level, compliance limit or other project data quality objective.

15.3. For the purposes of data usability evaluation, the DEP-defined PQL is equivalent to the NELAC-defined LOQ.

16. Evaluation of Reversals (Parts vs. Whole Comparison)

16.1. Where applicable, sample results are evaluated to determine if the sum of reported parts or fractions for the associated sample analyte results exceed 120% of the corresponding reported or calculated whole.

16.2. Evaluation of reversals with respect to sample data usability is assessed on a case-by-case basis with more extensive validation of the specifically affected analyses conducted as needed.

Examples of reversals include the following:

Parameter Part	Parameter Whole
Total ammonia	TKN
Orthophosphate	Total phosphorus
Nitrate	Measured Total nitrite/nitrate
Nitrite	Measured Total nitrite/nitrate
Sum of nitrite and nitrate	Measured Total nitrite/nitrate
Sum of nitrite, nitrate and TKN	Measured Total nitrogen
Sum of measured total nitrite/nitrate and TKN	Measured Total nitrogen
Filtered sample results (e.g., dissolved metals)	Unfiltered sample results (e.g., total metals)
Methyl mercury	Total mercury
DOC	TOC

17. **General Principles of Data Quality Assessment** - The following principles will be used when evaluating sample data for data usability determinations using specified Data Quality Indicators. The guidelines discussed in this section are only applicable if specific data quality assessment directives have not been provided in any other Department Rule or reporting format. The examples given below are illustrative and simplistic in nature.

17.1. Supporting data that fail the target acceptance criteria for specific Data Quality Indicators will be evaluated against the affected sample result and the magnitude of the failure.

Examples:

A wastewater effluent, with a nitrate discharge permit level of 10 mg/L, was analyzed by a laboratory and found to have a nitrate concentration of 0.26 mg/L. For the recovery of the Laboratory Control Sample (LCS), the laboratory has established acceptance criteria of 80 – 120%. For this particular batch of samples, recovery for the LCS was 78%, and the laboratory properly qualified the result with a "J". Because the actual nitrate value was significantly lower than the permit limit, and the quality control failure was relatively minor, this result is judged to be usable.

A Class I waterbody was sampled for benzene to determine if concentrations complied with the water quality standard of 1.18 ug/L. A benzene analysis was performed with initial calibration standards ranging from 1 ug/L to 200 ug/L. All QC checks associated with this analysis were within the calibration range and within acceptance criteria. One of the project samples had a benzene concentration of 210 ug/L. The sample was qualified by the laboratory with a "J" and an explanation provided that the result exceeded the high level calibration standard. Because of the absolute magnitude of the

sample result (exceeding the water quality standard by nearly 209 ug/L), and the fact that it exceeded the high level standard by only 5%, the data is usable for the project.

A wastewater effluent sample, which was collected to determine compliance with a 10 ug/L arsenic permit limit, was found to have 9.5 ug/L of arsenic. While the Laboratory Control Sample acceptance criteria previously established by the laboratory was 75 – 125%, the LCS recovery associated with this sample was only 65%. These data are unusable to demonstrate compliance, due to the close proximity of the sample to the action level, and the low LCS recovery (well outside of the targeted acceptance criteria).

17.2. The magnitude of the sample result is considered when evaluating the consequences of the failed or absent Data Quality Indicators.

Examples:

An Everglades surface water sample, analyzed for compliance with a 10 ug/L total phosphorus criterion, was found to contain 21 ug/l of total phosphorus. The sample was properly preserved, but due to a laboratory mistake, the original sample had to be re-analyzed. The second analysis produced a total phosphorus result of 17 ug/L, but now the holding time was exceeded by 1 week. The value was qualified by the laboratory with a "Q" for exceeding the holding time. Despite a reduction in the phosphorus concentration that could have been associated with exceeding the holding time, the analytical result still exceeded the action level, and the datum is usable.

For a waste facility study, benzene was found in groundwater at a concentration of 5.7 ug/L. However, the reported method detection limit (MDL) for this particular benzene analysis was 1 ug/L, with a practical quantitation limit (PQL) of 4 ug/L. The Rule 62-777 FAC guidance document for routinely achievable PQLs indicates the target PQL for benzene is 1 ug/L. In this case, despite the elevated detection limit (indicating use of a less sensitive method), the sample result was above the reported PQL, and this result is usable.

A surface water sample was analyzed by membrane filtration for fecal coliform, to determine if the 800 Colonies/100 mL water quality standard was exceeded. The analytical result was calculated to be 1,200 Colonies/100 mL. Method blanks were run simultaneously with the surface water samples by filtering 100 mL of sterilized dilution water, which resulted in the presence of 2 – 5 target colonies in the blank samples. The laboratory did not use "V" (analyte detected in blank) to qualify the result. This result is usable despite the failure of the lab to properly qualify the samples, the high magnitude of the result exceedance, compared with the minor contamination in the blanks.

Biochemical Oxygen Demand analysis conducted on a surface water sample yielded a result of 5.5 mg/L. Dissolved oxygen depletion in the associated method blank was 0.3 mg/L, exceeding method criteria by 0.1 mg/L. The results were properly qualified with "V". The data is usable based on the magnitude of the exceedance compared with the quality control failure.

17.3. The evaluation of laboratory performance or the determination of usability for a data set will be based on a preponderance of Data Quality Indicator failures pointing to specific, systematic problems with the laboratory operation or the data set.

Examples:

The analytical data generated by a County surface water monitoring program were being audited to determine if the data could support Impaired Waters Rule listing decisions for the Total Maximum Daily Load (TMDL) program. Fifteen chlorophyll a samples, which had been analyzed over a five year period, were evaluated. Twice in this five year period, due to laboratory oversights, the 48 hour hold time for filtration was not met. Records demonstrated that the 48 hour hold time was the laboratory's target and that a quality system for meeting this objective was evident. Upon reviewing additional chlorophyll a quality control records, it was determined these holding time exceedances were isolated instances and that the 5 year period of data is usable.

Upon auditing a laboratory's quality control information associated with data submitted to the TMDL program, it was discovered that the majority of samples were analyzed beyond the accepted holding time, and that none of these results were qualified with "Q". When the laboratory manager was asked about the discrepancy, they indicated that the qualifiers were purposely suppressed so that the TMDL program would use all the data. Because these admissions indicated that the entire quality system was compromised, the data were deemed not usable.

17.4. Project management goals are taken into consideration when making data usability assessments. Specific Data Quality Objectives are established for certain analytical activities within a project, and these objectives will be evaluated when making a usability statement.

Examples:

A cleanup goal established for a waste remediation site stated that all analytical work must be sensitive enough to meet the Cleanup Target Levels (CTL) in Rule 62 – 777 FAC. During the project, a previously unknown area of contamination was discovered, and the Project Manager ordered some grab samples to delineate the aerial extent and magnitude of the newly found contamination. The lab used a method with a higher PQL (that did not meet the original cleanup objectives) but use of this method allowed a rapid turn-around time, enabling an effective adaptive management approach to better address the newly discovered contamination. These data are usable based on this set of objectives (delineating the new area of concern).

Four monitoring wells were sampled for trichloroethane (TCE) at a groundwater remediation site previously known to have TCE concentrations ranging from 20-30 ug/L. During this particular sampling, TCE measured at the four wells was found to be below 1 ug/L, and there were no laboratory quality control failures of any kind. However, sampling records indicated that large volumes of groundwater were purged with a centrifugal pump in a short time period, and that dissolved oxygen levels in the wells exceed 7 mg/L. Because the evidence indicates that improper sampling occurred, resulting in excessive aeration and de-gassing of volatile compounds, these data were determined to be unusable.

18. Procedure for Data Usability Determinations

18.1. Data auditors will review and evaluate the following information:

- The purpose for auditing the data;
- The reported values of the analytical results;

- The relationship between each analytical result and an associated decision or action level;
- The documented calibration, quality control and other supporting data compared with designated Data Quality Indicators in 62-160, F.A.C. or other specified Data Quality Objectives;
- The pattern, frequency, and magnitude of any failures or other deficiencies associated with the results;
- The extent to which the audited data set fulfills the Data Quality Objectives of the project or Program.

18.2. Based on the evaluation, the auditors will determine how the data can be used by the relevant Department programs.

19. Summary of the Data Usability Assessment Process

Based on the above inputs, the auditor will extrapolate audit findings to determine the overall performance of a laboratory for a period of record, and determine the usability of the data in question for a Department purpose. Usability assessments will evaluate the Data Quality Indicator results for the subject data set relative to DEP program or project objectives, and the follow the principles characterized in this guidance document to draw an "overall conclusion" concerning the usability of the data set. This conclusion will address individual samples or will express a "general assessment" based on examination of a representative sample set over a pre-determined time period, depending on the project objectives and the sample set being evaluated. This assessment will include, where applicable, the evaluation of data trends relative to laboratory corrective actions or laboratory events (e.g., laboratory instituted NELAC standards in November of 2004). The resulting usability determination would be characterized over certain segments of the audited period. Recommendations concerning usability of the data will be communicated with appropriate Department staff.

Appendix A3. Data Supporting EPA's Reference Approach for Deriving Numeric Nutrient Criteria for Florida Streams

Appendix A3 contains the data EPA used to derive numeric nutrient criteria for Florida streams. It is being provided in electronic form on CD. A copy of the CD can be obtained by contacting EPA's docket office. The docket identification number is EPA-HQ-OW-2009-0596.

The Office of Water (OW) Docket Center is open from 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. The OW Docket Center telephone number is 202-566-1744 and the Docket address is OW Docket, EPA West, Room 3334, 1301 Constitution Ave., NW, Washington, DC 20004.

Appendix A4. FDEP's Method for Calculating a Corridor-based Landscape Development Intensity Index (LDI)

LDI method for Streams
February 2008
FDEP

In your view have the following layers to start with:

- Site point coverage
- FL NHD (24K)
    - Lines
    - Polygons (waterbodies as well as areas)

General guidelines:

The LDI is calculated using the land use within a 100 m buffer around the stream, 10,000m (10 km) upstream from the site.

In order to do this, follow these steps:

1. Start with the site of your choice
2. Draw a circle with a 10,000 m radius using the site as the center point.
3. Select the 24K NHD linework upstream of the site until you reach the circle boundary
    a. If there is not 10,000 m of stream upstream of the point, select the linework upstream of the point until you run out of stream.
4. Create a 100 m buffer around the linework
5. Cut the buffer polygon so that there is no buffer downstream of the site
6. Select the 24K NHD polygons (waterbodies and areas) that are upstream of the site, these represent wide spots in the stream/river.
7. Create 100 m buffer around the polygons
8. Append the buffers from the streamline and the polygons to create one buffer shapefile
9. Dissolve the buffers to eliminate overlap
10. Erase the polygons from the buffers (so that the buffer goes around the wide spots in the streams, wide spots in the streams are not to be included in the buffer)
    a. Water has an LDI score of 1 and can artificially lower the score if the water from the stream is included in the calculation of the LDI for that stream. Water that falls within the 100 m buffer but is not in the streamline can be counted in the calculation.
    b. If the NHD waterbodies remain selected, ArcGIS will only erase the selected polygons
11. Now you are ready to clip the corresponding WMD land use to the buffer.
    a. Always use the most recent land use available
12. Recalculate the area to make sure accurate areas are available (I always recalculate to Acres)

13. Bring the shapefile dbase file and LDI_by_LU3.xls into Excel
14. Create pivot table from data
    a. Click data menu
    b. Select "pivot table and pivot chart report"
    c. Click next on the first 2 screens
    d. Click finish on the next screen
    e. Drag and drop "Level 3" landuse codes into "Drop row fields here"
    f. Drag and drop the recalculated area field into "Drop data items here"
15. Copy the columns that the pivot table created
16. Paste Special -> Values
    a. You cannot manipulate data while it is in a pivot table
17. Add your column headings in (Level 3, Acres)
18. Add the following headings: Percent LDI Coefficient, LDI value
19. Calculate the percent by dividing the acres for one Level 3 value by the total acres (calculated by the pivot table)
20. Populate the LDI coefficient field
    a. Click on fx (add function)
    b. Choose VLOOKUP
        i. Lookup value = Level 3 value (ex. 1100)
        ii. Table array = LDI Table (see next page for LDI values for each FLUCC code), highlight Level 3 and LDI columns
        iii. Col_index_number = 2 (the column that the LDI values are stored in)
        iv. Range_lookup = false (so it will only return exact matches)
21. Calculate the LDI value by multiplying the percent by the LDI coefficient
22. Add individual LDI values for total LDI value.
23. Record total LDI value and land use used (year and district)

LDI Codes for Each FLUCC code

FLUCC	Description	LDI
1000	Urban and Built-up	7.39
1009	Mobile Home Units Any Density	6.79
1100	Residential, Low Density <Less than two dwelling units per acre>	6.79
1110	Low Density Residential - Fixed Single Family Units	6.79
1120	Low Density Residential - Mobile Home Units	6.79
1130	Low Density Residential - Mixed Units <Fixed and mobile home units>	6.79
1140	Ranchettes - Fixed Single Family Units	6.79
1150	Ranchettes - Mobile Units	6.79
1160	Ranchettes - Mixed Units	6.79
1190	Low Density Under Construction	6.79
1200	Residential, Medium Density <Two - five dwelling units per acre>	7.59
1210	Medium Density Residential - Fixed Single Family Units	7.59
1220	Medium Density Residential - Mobile Home Units	7.59
1230	Medium Density Residential - Mixed Units <Fixed and mobile home units>	7.59
1290	Medium Density Under Construction	7.59
1300	Residential, High Density	8.66
1310	High Density Residential - Fixed Single Family Units <Si or more	7.99
1320	High Density Residential - Mobile Home Units <Si or more	7.99
1330	Multiple Dwelling Units - Low Rise <Two stories or less>	8.66
1340	Multiple Dwelling Units - High Rise <Three stories or more>	9.19
1350	High Density Residential - Mixed Units <Fixed and mobile home units>	7.99
1390	High Density Under Construction	7.99
1400	Commercial and Services	8.00
1410	Retail Sales and Services	8.00
1411	Shopping Center	9.18
1420	Wholesale Sales and Services <excluding warehouses associated with	8.00
1423	JUNK YARD	9.18
1424	FARMERS MARKET	8.00
1430	Professional Services	8.00
1440	Cultural and Entertainment	8.07
1443	OPEN AIR THEATER	8.07
1450	Tourist Services	8.00
1452	MOTEL	8.00
1453	TRAVEL TRAILER PARK	8.00
1454	CAMPGROUND	4.09
1460	Oil and Gas Storage	8.00
1470	Mixed Commercial and Services	9.42
1480	Cemeteries	4.09
1490	Commercial and Services Under Construction	8.00
1500	Industrial	8.32
1510	Food Processing	8.32
1513	SEAFOOD PROCESSING	8.32
1514	MEAT PACKING FACILITY	8.32
1515	POULTRY AND/OR EGG PROCESSING	8.32
1516	GRAIN AND LEGUME PROCESSING	8.32

FLUCC	Description	LDI
1520	Timber Processing	8.32
1521	SAWMILL	8.32
1522	PLYWOOD AND VENEER MILL	8.32
1523	PULP AND PAPER MILL	8.32
1526	LOG HOME PREFABRICATION	8.32
1527	WOODYARD	8.32
1530	Mineral Processing	8.32
1532	PHOSPHATE PROCESSING	8.32
1533	LIMEROCK PROCESSING	8.32
1535	HEAVY MINERALS PROCESSING	8.32
1540	Oil and Gas Processing	8.32
1544	LIQUIFIED GASES	8.32
1545	ASPHALT PLANT	8.32
1550	Other Light Industrial	8.32
1551	BOAT BUILDING AND REPAIR	8.32
1552	ELECTRONICS	8.32
1554	AIRCRAFT BUILDING AND REPAIR	8.32
1556	MOBILE HOME MANUFACTURER	8.32
1560	Other Heavy Industrial	8.32
1561	Ship Building and Repair	8.32
1562	Prestressed Concrete Plants	8.32
1564	CEMENT PLANT	8.32
1565	PLASTIC PIPE PLANT	8.32
1570	Chemical Processing Plants	8.32
1580	???	8.32
1590	Industrial Under Construction	8.32
1600	Extractive	8.32
1610	Strip Mines	8.32
1611	Clays	8.32
1612	Peat	8.32
1613	HEAVY MINERAL MINE	8.32
1614	PHOSPHATE MINE	8.32
1620	Sand and Gravel Pits	8.32
1630	Rock Quarries	8.32
1631	LIMEROCK QUARRY	8.32
1632	DOLOMITE QUARRY	8.32
1633	PHOSPHATE	8.32
1640	Oil and Gas Fields	8.32
1650	Reclaimed Land	8.32
1660	Holding Ponds	8.32
1670	Inactive Strip Mines/Rock Quarries or holding ponds	8.32
1700	Institutional	8.07
1710	Educational Facilities	8.07
1720	Religious	8.07
1730	Military	8.07
1736	NATIONAL GUARD INSTALLATION	8.07
1740	Medical and Health Care	8.07

FLUCC	Description	LDI
1741	HOSPITIAL	8.07
1742	NURSING HOME	8.07
1750	Governmental	8.07
1756	MAINTENANCE YARD	8.07
1760	Correctional Facilities	8.07
1761	STATE PRISON	8.07
1765	MUNICIPAL PRISON	8.07
1770	Other Institutional Facilities	8.07
1780	Commercial Child Care	8.07
1790	Institutional Under Construction	8.07
1800	Recreational	4.09
1810	Swimming Beach	4.09
1820	Golf Courses	6.92
1830	Race Tracks	6.92
1831	AUTOMOBILE RACING TRACK	6.92
1832	HORSE RACING TRACK	6.92
1833	DOG RACING TRACK	6.92
1840	Marinas and Fish Camps	6.92
1850	Parks and Zoos	4.09
1851	CITY PARK	4.09
1852	ZOO	6.92
1860	Community Recreational Facilities	4.09
1870	Stadiums	6.92
1880	Historical Sites	8.07
1890	Under Construction or Other Recreational Facilities	4.09
1900	Open Land	1.85
1910	Undeveloped Urban Land	1.85
1920	Inactive Development Land	1.85
1923	INACTIVE DEVELOPMENT LAND NONFORESTED	1.85
1924	INACTIVE DEVELOPMENT LAND FORESTED	1.85
1930	Urban Land in Transition Without Positive Indicators of Intended Activity	1.85
1940	Other Open Land	1.85
2000	Agriculture	3.88
2100	Pastures and Fields	3.51
2110	Improved Pastures	3.51
2120	Unimproved Pastures	2.06
2130	Woodland Pastures	2.06
2140	Row Crops	4.63
2141	Potatoes and Cabbage	4.63
2150	Field Crops	4.63
2156	Field Crops - Sugar Cane	4.63
2160	Mixed Crops	4.63
2200	Tree Crops	4.06
2210	Citrus Groves	4.06
2220	Fruit Orchards	4.06
2221	PEACHES	4.06
2224	BLUEBERRIES	4.06

FLUCC	Description	LDI
2230	Other Groves	4.06
2231	PECANS	4.06
2240	Abandoned Tree Crops	4.06
2300	Feeding Operations	5.15
2310	Cattle Feeding Operations	5.15
2320	Poultry Feeding Operations	5.15
2330	Swine Feeding Operations	5.15
2400	Nurseries and Vineyards	4.06
2410	Tree Nurseries	4.06
2420	Sod Farms	4.06
2430	Ornamental Nurseries	4.06
2431	Shade Ferns	4.06
2432	Hammonck Ferns	4.06
2440	Vineyards	4.06
2450	Floriculture	4.06
2460	Timber Nursery	4.06
2500	Specialty Farms	4.06
2510	Horse Farms	5.15
2520	Dairies	5.15
2530	Kennels	5.15
2540	Aquaculture	5.15
2550	Tropical Fish Farms	5.15
2590	Other Specialty Farms	5.15
2600	Other Open Lands	2.06
2610	Fallow Cropland	2.06
2620	Old Field	2.06
3000	Rangeland	2.06
3100	Herbaceous	2.06
3200	Shrub and Brushland	2.06
3210	Palmetto Prairies	2.06
3220	Coastal Scrub	2.06
3290	Other Shrubs and Brush	2.06
3300	Mixed Rangeland	2.06
4000	Upland Forests	1.00
4100	Upland Coniferous Forests	1.00
4110	Pine Flatwoods or Mesic Flatwoods	1.00
4119	Pine Flatwoods - Melaleuca Infested	1.00
4120	Longleaf Pine-Xeric Oak or Longleaf Sandhill	1.00
4130	Sand Pine or Sand Pine Scrub	1.00
4140	Pine - Mesic Oak	1.00
4190	Hunting Plantation Woodlands	1.58
4200	Upland Hardwood Forests	1.00
4210	Oak Sandhill	1.00
4220	Brazilian Pepper	1.00
4230	Oak - Pine - Hickory	1.00
4240	Melaleuca	1.00
4250	Temperate Hardwood	1.00

FLUCC	Description	LDI
4260	Tropical Hardwoods	1.00
4270	Live Oak	1.00
4280	Cabbage Palm	1.00
4290	Wax Myrtle - Willow	1.00
4300	Upland Hardwood Forests Continued	1.00
4310	Beech - Magnolia	1.00
4320	Oak Scrub	1.00
4330	Western Everglades Hardwoods	1.00
4340	Hardwood - Conifer Mixed	1.00
4350	Dead Trees	1.00
4370	Australian Pine	1.00
4380	Mixed Hardwoods	1.00
4390	Maritime Hammock	1.00
4400	Tree Plantations	1.58
4410	Pine Plantations	1.58
4420	Hardwood Plantations	1.58
4430	Forest Regeneration	1.58
4440	Experimental Tree Plots	1.58
4450	Seed Tree Plantations	1.58
5000	Water	1.00
5100	Streams and Waterways	1.00
5200	Lakes	1.00
5210	Lakes Larger Than 500 Acres (202 Hectares)	1.00
5220	Lakes Larger Than 100 Acres (40 Hectares), but Less Than 500 Acres	1.00
5230	Lakes Larger Than 10 Acres (4 Hectares), but Less Than 100 Acres	1.00
5240	Lakes Less Than 10 Acres (4 hectares) Which are Dominant Features	1.00
5300	Reservoirs	4.09
5310	Reservoirs Larger Than 500 Acres (202 Hectares)	4.09
5320	Reservoirs Larger Than 100 Acres (40 Hectares), but Less Than 500 Acres	4.09
5330	Reservoirs Larger Than 10 Acres (4 Hectares), but Less Than 100 Acres	4.09
5340	Reservoirs less than 10 Acres (4 Hectares) which are dominant features	4.09
5400	Bays and Estuaries	1.00
5410	Embayments Opening Directly into the Gulf of Mexico or the Atlantic Ocean	1.00
5420	Embayments Not Opening Directly into the Gulf of Mexico or the Atlantic Ocean	1.00
5500	Major Springs	1.00
5600	Slough Waters	1.00
6000	Wetlands	1.00
6100	Wetland Hardwood Forests	1.00
6110	Bay Swamps	1.00
6120	Mangrove Swamps	1.00
6130	Gum Swamps	1.00
6140	Shrub Swamps	1.00
6150	Bottomland Hardwood Forest	1.00
6160	Inland Ponds and Sloughs	1.00
6170	Mixed Wetland Hardwoods	1.00
6171	Mixed Wetland Hardwoods - Willows	1.00
6172	Mixed Wetland Hardwoods - Mixed Shrubs	1.00

FLUCC	Description	LDI
6180	Cabbage Palm Savanna	1.00
6200	Wetland Coniferous Forests	1.00
6210	Cypress	1.00
6218	Cypress - Melaleuca Infested	1.00
6219	Cypress - with Wet Prairies	1.00
6220	Wet Flatwoods	1.00
6230	Atlantic White Cedar	1.00
6240	Cypress - Pine - Cabbage Palm	1.00
6300	R Wetland Mixed Forest	1.00
6310	Hydric Hammock	1.00
6320	Tidal Swamp	1.00
6400	Vegetated Non-forested Wetlands	1.00
6410	Freshwater Marshes	1.00
6411	Freshwater Marshes - Sawgrass	1.00
6412	Freshwater Marshes - Cattail	1.00
6420	Salt marshes	1.00
6430	Wet Prairies	1.00
6439	Wet Prairies - with Pine	1.00
6440	Emergent Aquatic Vegetation	1.00
6450	Submergent Aquatic Vegetation	1.00
6451	Hydrilla	1.00
6460	Mixed Scrub-Shrub Wetland	1.00
6500	Non-vegetated	1.00
6510	Salt Barrens	1.00
6520	Intertidal Areas	1.00
6530	Inland Shores/Ephemeral Ponds	1.00
6540	Oyster Bars	1.00
6600	Cut over Wetlands	1.58
6900	Wetland Scrub Scrub	1.00
7000	Barren Land	1.00
7100	Beaches	1.00
7200	Sand Other Than Beaches	1.00
7300	Eposed Rock	1.00
7310	Eposed Rock with Marsh Grasses	1.00
7400	Disturbed Lands	4.09
7410	Rural Land in Transition Without Positive Indicators of Intended Activity	4.09
7420	Borrow Areas	4.09
7430	Spoil Areas	4.09
7440	Fill Areas	4.09
7450	Burned Areas	1.00
7500	Riverine Sandbars	1.00
8000	Transportation, Communication and Utilities	8.05
8100	Transportation	7.81
8110	Airports	8.28
8111	Commercial Airport	8.28
8112	GENERAL AVIATION	8.28
8113	PRIVATE AIRPORT	8.28

FLUCC	Description	LDI
8120	Railroads	7.81
8130	Bus and Truck Terminals	8.28
8132	BUS TERMINAL	8.28
8133	TRUCK TERMINAL	8.28
8140	Roads and Highways	8.28
8141	LIMITED ACCESS HIGHWAY (INTERSTATE)	8.28
8142	DIVIDED HIGHWAY (FEDERAL-STATE)	8.28
8143	TWO LANE HIGHWAY	7.81
8147	TRANSPORTATION CORRIDOR	7.81
8150	Port Facilities	8.28
8160	Canals and Locks	8.28
8170	Oil, Water, or Gas Long Distance Transmission Line	8.28
8180	Auto Parking Facilities (Highway Rest Areas)	8.28
8190	Transportation Facilities Under Construction	8.28
8191	Highways	8.28
8192	Railroads	8.28
8200	Communications	8.32
8210	Transmission Towers	8.32
8220	Communication Facilities	8.32
8290	Communication Facilities Under Construction	8.32
8300	Utilities	8.32
8310	Electrical Power Facilities	10.00
8311	THERMAL (COAL-FIRED) ELECTRICAL POWER GENERATING PLANT	10.00
8315	ELECTRICAL POWER SUBSTATION	10.00
8320	Electrical Power Transmission Lines	1.85
8330	Water Supply Plants	8.32
8340	Sewage Treatment	8.32
8350	Solid Waste Disposal	8.32
8390	Utilities Under Construction	8.32
9000	Special Classifications	1.00
9100	Vegetative	1.00
9110	Sea Grass	1.00

Appendix A5. FDEP's Stream Benchmark Summaries.

Cross-references:

FDEP's Stream Benchmark Summaries

Appendix B-17: FDEP's Stream Benchmark Summaries. U.S. EPA. 2010. *Technical Support Document for U.S. EPA's Proposed Rule for Numeric Nutrient Criteria for Florida's Inland Surface Fresh Waters*. *Water Quality Standards for the State of Florida's Lakes and Flowing Waters. Proposed Rule. January 14, 2010*. EPA-HQ-OW-2009-0596, FRL-9105-1.

Appendix 7-A. U.S. EPA. 2009. Proposed Methods and Approaches for Developing Numeric Nutrient Criteria for Florida's Inland Waters. United States Environmental Protection Agency, Office of Water, Office of Science and Technology, Health and Ecological Criteria Division, Washington, DC.

And,

FDEP's Site Information and Taxa Lists for Stream Benchmark Site Samples

Appendix B-15: FDEP's Site Information and Taxa Lists for Stream Benchmark Site Samples, U.S. EPA. 2010. *Technical Support Document for U.S. EPA's Proposed Rule for Numeric Nutrient Criteria for Florida's Inland Surface Fresh Waters*. *Water Quality Standards for the State of Florida's Lakes and Flowing Waters. Proposed Rule. January 14, 2010*. EPA-HQ-OW-2009-0596, FRL-9105-1.

Appendix 3-D. USEPA. 2009. Proposed Methods and Approaches for Developing Numeric Nutrient Criteria for Florida's Inland Waters. United States Environmental Protection Agency, Office of Water, Office of Science and Technology, Health and Ecological Criteria Division, Washington, DC.

FDEP's Stream Benchmark Summaries

(Appendix 7-A from USEPA. 2009. *Proposed Methods and Approaches for Developing Numeric Nutrient Criteria for Florida's Inland Waters*. United States Environmental Protection Agency, Office of Water, Office of Science and Technology, Health and Ecological Criteria Division, Washington, DC.)

BONE VALLEY NUTRIENT REGION

Nutrient Benchmark Site Summary
Deer Prairie Creek
STORET Station 27051558216422

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.57, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with small areas of agriculture and residential land use observed beyond an extensive forested riparian buffer zone. The majority of the watershed lies within conservation lands. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Deer Prairie Creek (Station 27051558216422) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Deer Prairie Creek (Station 27051558216422) showing close-up of sampling site.

Photograph of Deer Prairie Creek

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	117
Hydrologic Score	2
LDI Score	1.57
SCI Score	74 A
Total Phosphorus Geometric Mean (mg/L)	0.285
Total Nitrogen Geometric Mean (mg/L)	1.14

The habitat assessment scored in the high end of the "Suboptimal" range due to the low water levels. The Stream Condition Index scored in the "Exceptional" category, indicating an unusually diverse assemblage of sensitive invertebrates, fully supporting the Class III designation.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	89.00
% Chlorophycota	0.33
% Cryptophycophyta	0
% Cyanophycota	10.67
Number of Taxa	51

Minimal periphyton growth was observed at the site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 51 algal taxa observed, the majority of the periphyton community was composed of diatoms. No problematic filamentous algal growth was found.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Deer Prairie Creek. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

BONE VALLEY NUTRIENT REGION

Nutrient Benchmark Site Summary
East Fork Manatee River
STORET Station 273116508208152

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 2.22, suggesting relatively benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with field/pasture located beyond a riparian buffer zone. Although there is phosphate mining in the area, no phosphate process water is discharged to the East fork of the Manatee River. The site is located within protected conservation lands.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of East Fork Manatee River (Station 273116508208152) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of East Fork Manatee River (Station 273116508208152) showing close-up of sampling site.

Photograph of East Fork Manatee River

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	128
Hydrologic Score	2
LDI Score	2.22
SCI Score	71 A
Total Phosphorus Geometric Mean (mg/L)	0.417
Total Nitrogen Geometric Mean (mg/L)	1.04

The habitat assessment scored in the "Optimal" range, and the Stream Condition Index scored in the "Exceptional" category, indicating an unusually diverse assemblage of sensitive invertebrates, definitively supporting the Class III designation.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	76.00
% Chlorophycota	0.33
% Cryptophycophyta	0
% Cyanophycota	23.67
Number of Taxa	57

Of the 57 algal taxa observed, the majority of the periphyton community was composed of diatoms. Algal growth was very sparse throughout the stream, and no nuisance algal growth was found.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at East Fork Manatee River. Based on our analyses, the Department concluded that the site was influenced only by low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

BONE VALLEY NUTRIENT REGION

Nutrient Benchmark Site Summary

Manatee River @ SR 64

STORET Station 24010002

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.46, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with some field/pasture beyond an extensive riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Manatee River at SR 64 (Station 24010002) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Manatee River at SR 64 (Station 24010002) showing close-up of sampling site.

Photograph of Manatee River at SR 64

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	109
Hydrologic Score	2
LDI Score	1.46
SCI Score	64 A
Total Phosphorus Geometric Mean (mg/L)	0.560
Total Nitrogen Geometric Mean (mg/L)	0.67

The habitat assessment scored in the "Suboptimal" range, mostly due to limited in-stream substrate diversity and availability. Despite this, the Stream Condition Index scored in the "Healthy" category, indicating a diverse assemblage of sensitive invertebrates, fully supporting the Class III designation.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	90.00
% Chlorophycota	0
% Cryptophycophyta	0
% Cyanophycota	9.33
Number of Taxa	34

Of the 34 algal taxa observed, the majority of the periphyton community was composed of diatoms. This site has been a DEP reference stream for 17 years, and local DEP biologists have sampled this site many times during that period. However, during the December, 17, 2008 sampling event, a significant amount of filamentous algal growth was observed. Peggy Morgan (personal communication) stated that while these types of blooms are common in the region during low water events, algal growth is routinely sparse at this location. There have been no additional adverse human activities or changes in watershed land use during the past 17 year period, therefore it is likely that this type of algal growth is an infrequent natural condition, and that the magnitude, frequency and duration of the growth events are limited, as evidenced by the healthy invertebrate community. Ms. Morgan returned to this area of the Manatee River on March 2, 2009, and reported that the algae observed in December was significantly reduced, and that algal coverage had returned to typical (low coverage) levels. This suggests that even in minimally disturbed streams with naturally elevated phosphorus levels, sporadic algal growth occurs, however the magnitude, frequency and duration of the growth events are limited.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Manatee River at SR 64. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTH CENTRAL NUTRIENT REGION

Nutrient Benchmark Site Summary
Alapaha River @ CR 150
STORET Station 21010008

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.81, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the watershed land use was predominately forest/natural, with some agricultural activities occurring beyond an extensive riparian buffer zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of the Alapaha River (Station 21020008) showing watershed vicinity and land use

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Alapaha River at CR 150 showing close-up of sampling site

Photograph of the Alapaha River at CR 150

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	138
Hydrologic Score	1
LDI Score	1.81
SCI Score	59 A
Total Phosphorus Geometric Mean (mg/L)	0.309
Total Nitrogen Geometric Mean (mg/L)	2.07

The Habitat Assessment score was in the "Optimal" range. The SCI scored in the "Healthy" range, indicating a diverse community of aquatic invertebrates, and demonstrating that this stream is meeting its Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	83.44
% Chlorophycota	2.92
% Cryptophycophyta	0
% Cyanophycota	13.31
Number of Taxa	62

Minimal to moderate periphyton growth was observed at this site, and there were no nuisance filamentous algae. Of the 62 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and macroinvertebrate and algal communities) at the Alapaha River at CR 150. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

NORTH CENTRAL NUTRIENT REGION

Nutrient Benchmark Site Summary

Suwannee River @ White Springs, FL (US 41)

STORET Station 21010040 / SUW040C1

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.27, suggesting benign human influences in the watershed. Before the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with silviculture beyond an extensive forested riparian buffer zone. The majority of the water emanates from the Okeefenokee National Wildlife Refuge. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of the Suwannee River @ US 41 showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Suwannee River @ US 41 showing close-up of sampling site.

Photograph of the Suwannee River at US Hwy 41

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	145
Hydrologic Score	2
LDI Score	1.27
SCI Score	69 A
Total Phosphorus Geometric Mean (mg/L)	0.154
Total Nitrogen Geometric Mean (mg/L)	1.24

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Exceptional" category, exhibiting a diverse assemblage of sensitive aquatic invertebrates and indicating the site is definitively meeting the Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	54.43
% Chlorophycota	8.20
% Cryptophycophyta	0
% Cyanophycota	37.38
Number of Taxa	66

Very little periphyton was observed at this site, and there was no nuisance algal growth. Of the 66 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at the Suwannee River at US Highway 41. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

NORTH CENTRAL NUTRIENT REGION

Nutrient Benchmark Site Summary

Deep Creek @ US 441

STORET Station DEP010C1

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.34, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some minimal silviculture. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of Deep Creek @ US 441 (Station DEP010C1) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Deep Creek @ US 441 (Station DEP010C1) showing close-up of sampling site.

Photograph of Deep Creek @ US 441

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	97
Hydrologic Score	3
LDI Score	1.34
SCI Score	80 A
Total Phosphorus Geometric Mean (mg/L)	0.112
Total Nitrogen Geometric Mean (mg/L)	1.04

The Habitat Assessment score was in the "Suboptimal" range, predominantly due to low water velocity (drought conditions) and the presence of naturally eroding sandy banks. The SCI score was in the "Exceptional" category, exhibiting an unusually diverse assemblage of sensitive invertebrates and indicating the site is definitely meeting its Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	93.33
% Chlorophycota	0.33
% Cryptophycophyta	0
% Cyanophycota	6.33
Number of Taxa	58

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 58 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Deep Creek @ US 441. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTH CENTRAL NUTRIENT REGION

Nutrient Benchmark Site Summary

Falling Creek @ C-131

STORET Station FAL020C1

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.36, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture and field/pasture located beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of Falling Creek @ C-131 (Station FAL020C1) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Falling Creek @ C-131 (Station FAL020C1) showing close-up of sampling site.

Photograph of Falling Creek @ C-131

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	142
Hydrologic Score	3
LDI Score	1.36
SCI Score	55 A
Total Phosphorus Geometric Mean (mg/L)	0.236
Total Nitrogen Geometric Mean (mg/L)	1.22

The Habitat Assessment score was in the "Optimal" range with 142 points. The SCI score (55) was in the "Healthy" category, exhibiting a diverse assemblage of sensitive invertebrates and indicating the site is meeting its Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	98.33
% Chlorophycota	1.33
% Cryptophycophyta	0
% Cyanophycota	0.33
Number of Taxa	48

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 48 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Falling Creek @ C-131. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTH CENTRAL NUTRIENT REGION

Nutrient Benchmark Site Summary

Little Creek @ US 441

STORET Station 21010033

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.18, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of Little Creek @ US 441 (Station 21010033) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Little Creek @ US 441 (Station 21010033) showing close-up of sampling site.

Photograph of Little Creek @ US 441

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	127
Hydrologic Score	1
LDI Score	1.18
SCI Score	89 A
Total Phosphorus Geometric Mean (mg/L)	0.373
Total Nitrogen Geometric Mean (mg/L)	0.72

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Exceptional" category, indicating an exceedingly diverse assemblage of sensitive macroinvertebrates, and demonstrating that the site is clearly meeting its designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	89.00
% Chlorophycota	0.33
% Cryptophycophyta	0
% Cyanophycota	10.67
Number of Taxa	53

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 53 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and macroinvertebrate and algal communities) at Little Creek @ US 441. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTH CENTRAL NUTRIENT REGION

Nutrient Benchmark Site Summary

New River @ SR 18

STORET Station 21030049

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.28, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture and pasture located beyond a forested buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of New River @ SR 18 (Station 21030049) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of New River @ SR 18 (Station 21030049) showing close-up of sampling site.

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	130
Hydrologic Score	2
LDI Score	1.28
SCI Score	76
Total Phosphorus Geometric Mean (mg/L)	0.229
Total Nitrogen Geometric Mean (mg/L)	1.04

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Exceptional" category, indicating an unusually diverse community of macroinvertebrates, and demonstrating that the water body is definitively meeting its designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	75.62
% Chlorophycota	0.50
% Cryptophycophyta	0
% Cyanophycota	23.88
Number of Taxa	72

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 72 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal communities) at New River @ SR 18. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTH CENTRAL NUTRIENT REGION

Nutrient Benchmark Site Summary

Olustee Creek @ SR 100

STORET Station UNI234LV

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.32, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture and pasture located well beyond a forested buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Olustee Creek @ SR 100 (Station UNI234LV) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Olustee Creek @ SR 100 (Station UNI234LV) showing close-up of sampling site.

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	118
Hydrologic Score	2
LDI Score	1.32
SCI Score	44 A
Total Phosphorus Geometric Mean (mg/L)	0.119
Total Nitrogen Geometric Mean (mg/L)	2.05

The Habitat Assessment score was in the high end of the "Suboptimal" range, predominantly due to low water velocity. The SCI score was in the "Healthy" category, indicating a diverse community of sensitive invertebrates, and demonstrating that the water body is meeting its designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	95.77
% Chlorophycota	2.82
% Cryptophycophyta	0
% Cyanophycota	1.41
Number of Taxa	57

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 57 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and macroinvertebrate and algal communities) at Olustee Creek @ SR 100. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTH CENTRAL NUTRIENT REGION

Nutrient Benchmark Site Summary

Sampson River @ SW 106 Ave

STORET Station 3598-B

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.68, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silvicultural activities and pasture beyond a forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Sampson River @ SW 106 Ave (Station 3598-B) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Sampson River @ SW 106 Ave (Station 3598-B) showing close-up of sampling site.

Photograph of Sampson River @ SW 106 Ave

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	131
Hydrologic Score	4
LDI Score	1.68
SCI Score	65 A
Total Phosphorus Geometric Mean (mg/L)	0.342
Total Nitrogen Geometric Mean (mg/L)	0.68

The Habitat Assessment score was in the "Optimal" range. The hydrologic score was somewhat elevated due to presence of a control structure at outlet of Lake Sampson, however, local residents indicated that this structure had not been operational for at least 6 months, meaning the contemporaneous biological community had recovered from any potential hydrologic modification. The SCI score was in the "Healthy" category, exhibiting a diverse assemblage of sensitive invertebrates and indicating the site is meeting the Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	58.33
% Chlorophycota	1.33
% Cryptophycophyta	0
% Cyanophycota	40.33
Number of Taxa	63

Minimal periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 63 algal taxa observed, the majority of the periphyton community was composed of diatoms, with a large proportion of blue-green algae.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Sampson River @ SW 106 Ave. Based on our analyses, the Department concluded that the site was influenced only by low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTH CENTRAL NUTRIENT REGION

Nutrient Benchmark Site Summary

Santa Fe River @ Worthington Springs

STORET Station SFR030C1

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.88, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silvicultural activities and pasture beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Santa Fe River @ Worthington Springs (Station SFR030C1) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Santa Fe River @ Worthington Springs (Station SFR030C1) showing close-up of sampling site.

Photograph of Santa Fe River @ Worthington Springs

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	132
Hydrologic Score	2
LDI Score	1.88
SCI Score	64 A
Total Phosphorus Geometric Mean (mg/L)	0.235
Total Nitrogen Geometric Mean (mg/L)	1.15

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Healthy" category, exhibiting a diverse assemblage of sensitive invertebrates and indicating the site is meeting the Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	61.33
% Chlorophycota	3.00
% Euglenophycota	0.33
% Cyanophycota	35.33
Number of Taxa	64

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 64 algal taxa observed, the majority of the periphyton community was composed of diatoms, with a large proportion of blue-green algae.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Santa Fe River @ Worthington Springs. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTH CENTRAL NUTRIENT REGION

Nutrient Benchmark Site Summary
Suwannee River @ CR 6
STORET Station 3535

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.22, suggesting benign human influences in the watershed. Before the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silvicultural activities and pasture beyond an extensive forested riparian buffer zone. The vast majority of the basin lies within the Okeefenokee National Wildlife Refuge, an area of pristine water quality conditions. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of the Suwannee River @CR 6 (Station 3535) showing watershed vicinity and land use

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Suwannee River @ CR 6 (Station 3535) showing close-up of sampling site

Photograph of the Suwannee River @ CR 6

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	115
Hydrologic Score	1
LDI Score	1.22
SCI Score	52 A
Total Phosphorus Geometric Mean (mg/L)	0.078
Total Nitrogen Geometric Mean (mg/L)	1.34

The Habitat Assessment score was in high end of the "Suboptimal" range. The SCI was not conducted due to a limited amount of habitat in very shallow water. Water levels had recently increased, and the habitat was not inundated for a sufficient period to comply with the Standard Operating Procedure. However, this site was sampled for SCI on 10/10/2006 and 12/12/2007 and received a 53 and 51, respectively, both in the "Healthy" SCI category.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	91.48
% Chlorophycota	6.89
% Cryptophycophyta	0
% Cyanophycota	1.64
Number of Taxa	45

Extensive periphyton growth was observed at this site, which is thought to be a natural phenomenon associated with the limerock substrate and very low water conditions. Of the 45 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal communities) at the Suwannee River at CR 6. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that the algal growth observed was a natural phenomenon. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which suggest support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTH CENTRAL NUTRIENT REGION

Nutrient Benchmark Site Summary

Swift Creek @ CR 239

STORET Station 21030088

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.26, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with silvicultural activities beyond a forested buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Swift Creek @ CR 239 (Station 21030088) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Swift Creek @ CR 239 (Station 21030088) showing close-up of sampling site.

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	105
Hydrologic Score	2
LDI Score	1.26
SCI Score	NA
Total Phosphorus Geometric Mean (mg/L)	0.083
Total Nitrogen Geometric Mean (mg/L)	2.06

The Habitat Assessment score was in the "Suboptimal" range. There was no water flow at the time of sampling, therefore the SCI was not conducted, according to the SCI Standard Operating Procedure.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	99.67
% Chlorophycota	0.33
% Cryptophycophyta	0
% Cyanophycota	0
Number of Taxa	32

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 32 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal communities) at Swift Creek @ CR 239. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that no adverse algal or aquatic plant issues were present. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which suggest support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTH CENTRAL NUTRIENT REGION

Nutrient Benchmark Site Summary

Robinson Branch @ C-246

STORET Station ROB01C1

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.36, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silvicultural activities and unimproved pasture beyond a forested riparian buffer zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of Robinson Branch @ C-246 (Station ROB01C1) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Robinson Branch @ C-246 (Station ROB01C1) showing close-up of sampling site.

Photograph of Robinson Branch @ C-246

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	128
Hydrologic Score	2
LDI Score	1.36
SCI Score	81 A
Total Phosphorus Geometric Mean (mg/L)	0.158
Total Nitrogen Geometric Mean (mg/L)	0.95

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Exceptional" category, exhibiting an unusually diverse assemblage of sensitive invertebrates and indicating the site is definitively meeting the Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	97.33
% Chlorophycota	0.33
% Cryptophycophyta	0
% Cyanophycota	2.33
Number of Taxa	58

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 58 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Robinson Branch @ C-246. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTHEAST NUTRIENT REGION

Nutrient Benchmark Site Summary

Alligator Creek @ US 301 & SR115

STORET Station 19020052

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.74, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture and unimproved pasture generally beyond a 100 m forested riparian zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of Alligator Creek @ US 301 & SR 115 (Station 19020052) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Alligator Creek @ US 301 & SR 115 (Station 19020052) showing close-up of sampling site.

Photograph of Alligator Creek @ US 301 & SR 115

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	137
Hydrologic Score	2
LDI Score	1.74
SCI Score	63 A
Total Phosphorus Geometric Mean (mg/L)	0.190
Total Nitrogen Geometric Mean (mg/L)	1.12

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Healthy" category, exhibiting a diverse assemblage of sensitive invertebrates and indicating the site is meeting the Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	83.02
% Chlorophycota	1.89
% Cryptophycophyta	0
% Cyanophycota	15.09
Number of Taxa	64

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 64 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Alligator Creek @ US 301 & SR 115. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

Nutrient Benchmark Site Summary

Ates Creek @ CR 315

STORET Station CLA243LV

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.18, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of Ates Creek @ CR 315 (Station CLA243LV) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Ates Creek @ CR 315 (Station CLA243LV) showing close-up of sampling site.

Photograph of Ates Creek @ CR 315

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	144
Hydrologic Score	2
LDI Score	1.18
SCI Score	91 A
Total Phosphorus Geometric Mean (mg/L)	0.198
Total Nitrogen Geometric Mean (mg/L)	0.71

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Exceptional" category, exhibiting an exceedingly diverse assemblage of sensitive invertebrates and indicating the site is clearly meeting the Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	98.00
% Chlorophycota	1.00
% Cryptophycophyta	0
% Cyanophycota	0.33
Number of Taxa	41

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 41 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Ates Creek @ CR 315. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTHEAST NUTRIENT REGION

Nutrient Benchmark Site Summary

Black Creek @ SR 16

STORET Station CLA254LR

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.21, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of Black Creek @ SR 16 (Station CLA254LR) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Black Creek @ SR 16 (Station CLA254LR) showing close-up of sampling site.

Photograph of Black Creek @ SR 16

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	133
Hydrologic Score	2
LDI Score	1.21
SCI Score	91 A
Total Phosphorus Geometric Mean (mg/L)	0.116
Total Nitrogen Geometric Mean (mg/L)	0.55

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Exceptional" category, exhibiting an unusually diverse assemblage of sensitive invertebrates and indicating the site is clearly meeting its Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	94.67
% Chlorophycota	1.33
% Cryptophycophyta	0
% Cyanophycota	4.00
Number of Taxa	54

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 54 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Black Creek @ SR 16. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTHEAST NUTRIENT REGION

Nutrient Benchmark Site Summary
Greens Creek @ CR 315
STORET Station GC315

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.33, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of Greens Creek @ CR 315 (Station GC315) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Greens Creek @ CR 315 (Station GC315) showing close-up of sampling site.


Photograph of Greens Creek @ CR 315

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	114
Hydrologic Score	2
LDI Score	1.33
SCI Score	NA
Total Phosphorus Geometric Mean (mg/L)	0.020
Total Nitrogen Geometric Mean (mg/L)	0.57

The Habitat Assessment score was in the high "Suboptimal" range, mostly because of the lack of water velocity. Stream Condition Index sampling was not performed at the time of sampling due to the stagnant water conditions. An adjacent station was sampled for SCI in 2005 and 2006, and both times scored in the "Healthy" category based on SCI_2007 thresholds. This suggests that the site is meeting its Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	98.05
% Chlorophycota	0.65
% Cryptophycophyta	0
% Cyanophycota	1.30
Number of Taxa	42

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 42 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal communities) at Greens Creek @ CR 315. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors with no algae related issues. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with plants and algae which suggest support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

Nutrient Benchmark Site Summary

Little St. Marys River@ CR 121 A

STORET Station 19010046

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.18, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with silvicultural activities beyond a forested riparian zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of Little St. Marys River @ CR 121 A (Station 19010046) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Little St. Marys River @ CR 121 A (Station 19010046) showing close-up of sampling site.

Photograph of Little St. Marys River @ CR 121 A

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	117
Hydrologic Score	2
LDI Score	1.18
SCI Score	NA
Total Phosphorus Geometric Mean (mg/L)	0.048
Total Nitrogen Geometric Mean (mg/L)	1.15

The Habitat Assessment score was in the high end of the "Suboptimal" category, predominantly sue to low water velocity. Due to the swamp-like nature of this system, SCI sampling was not appropriate and was not conducted.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	61.64
% Chlorophycota	5.90
% Euglenophycota	1.97
% Cyanophycota	29.84
Number of Taxa	75

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 75 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal communities) at Little St. Marys River @ CR 121 A. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTHEAST NUTRIENT REGION

Nutrient Benchmark Site Summary

Middle Prong St. Marys River @ CR 125

STORET Station 19010041

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.16, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture and pasture located beyond a 100 m forested buffer. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of Middle Prong St. Marys @ CR 125 (Station 19010041) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Middle Prong St. Marys @ CR 125 (Station 19010041) showing close-up of sampling site.

Photograph of Middle Prong St. Marys @ CR 125

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	137
Hydrologic Score	2
LDI Score	1.16
SCI Score	78 A
Total Phosphorus Geometric Mean (mg/L)	0.029
Total Nitrogen Geometric Mean (mg/L)	1.10

The Habitat Assessment score was in the "Optimal" range. Despite the naturally low dissolved oxygen measured during sampling (2.7 mg/L) the SCI score was in the "Exceptional" category, exhibiting an unusually diverse assemblage of sensitive invertebrates and indicating the site is clearly meeting its Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	81.40
% Chlorophycota	1.33
% Cryptophycophyta	0
% Cyanophycota	17.28
Number of Taxa	55

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 55 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Middle Prong St. Marys @ CR 125. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

Nutrient Benchmark Site Summary

Middle Prong St. Marys River @ CR 127

STORET Station MPS

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.34, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of Middle Prong St. Marys @ CR 127 (Station MPS) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Middle Prong St. Marys @ CR 127 (Station MPS) showing close-up of sampling site.

Photograph of Middle Prong St. Marys @ CR 127

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	131
Hydrologic Score	2
LDI Score	1.34
SCI Score	71 A
Total Phosphorus Geometric Mean (mg/L)	1.09
Total Nitrogen Geometric Mean (mg/L)	0.026

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Exceptional" category, exhibiting an unusually diverse assemblage of sensitive invertebrates and indicating the site is certainly meeting its Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	97.33
% Chlorophycota	0.67
% Cryptophycophyta	0
% Cyanophycota	2.00
Number of Taxa	42

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 42 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Middle Prong St. Marys @ CR 127. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTHEAST NUTRIENT REGION

Nutrient Benchmark Site Summary

North Fork Black Creek @ Jennings Landing

STORET Station 14264

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.62, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture and pasture located beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of North Fork Black Creek @ Jennings Landing (Station 14264) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of North Fork Black Creek @ Jennings Landing (Station 14264) showing close-up of sampling site.

Photograph of North Fork Black Creek @ Jennings Landing

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	137
Hydrologic Score	2
LDI Score	1.62
SCI Score	73 A
Total Phosphorus Geometric Mean (mg/L)	0.038
Total Nitrogen Geometric Mean (mg/L)	0.51

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Exceptional" category, exhibiting an unusually diverse assemblage of sensitive invertebrates and indicating the site is definitively meeting the Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	69.33
% Chlorophycota	1.33
% Cryptophycophyta	0
% Cyanophycota	29.33
Number of Taxa	48

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 48 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at North Fork Black Creek @ Jennings Landing. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTHEAST NUTRIENT REGION

Nutrient Benchmark Site Summary

Peters Creek @ CR 315 A

STORET Station CLA246GS

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.21, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture and pasture located beyond a forested riparian buffer zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of Peters Creek @ CR315A (Station CLA246GS) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Peters Creek @ CR315A (Station CLA246GS) showing close-up of sampling site.

Photograph of Peters Creek @ CR315A

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	148
Hydrologic Score	2
LDI Score	1.21
SCI Score	73 A
Total Phosphorus Geometric Mean (mg/L)	0.019
Total Nitrogen Geometric Mean (mg/L)	0.40

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Exceptional" category, exhibiting a diverse assemblage of sensitive invertebrates and indicating the site is definitively meeting the Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	94.00
% Chlorophycota	2.67
% Euglenophycota	0.67
% Cyanophycota	2.67
Number of Taxa	64

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 64 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Peters Creek @ CR 315 A. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

Nutrient Benchmark Site Summary

South Fork Black Creek @ SR 21

STORET Station 20030481

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.35, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silvicultural activities beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of South Fork Black Creek @ SR 21 (Station 20030481) showing watershed vicinity and land use.

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DOQQ 2004 aerial photograph of South Fork Black Creek @ SR 21 (Station 20030481) showing close-up of sampling site.

Photograph of South Fork Black Creek @ SR 21

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	144
Hydrologic Score	1
LDI Score	1.35
SCI Score	83 A
Total Phosphorus Geometric Mean (mg/L)	0.093
Total Nitrogen Geometric Mean (mg/L)	0.50

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Exceptional" category, exhibiting an exceedingly diverse assemblage of sensitive invertebrates and indicating the site is definitively meeting its Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	72.61
% Chlorophycota	0.99
% Cryptophycophyta	0
% Cyanophycota	26.40
Number of Taxa	67

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 67 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at South Fork Black Creek @ SR 21. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

Nutrient Benchmark Site Summary

St. Marys River @ SR 2

STORET Station 19010006

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.09, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silvicultural activities and unimproved pasture beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of St. Marys at SR 2 (Station 19010006) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of St. Marys at SR 2 (Station 19010006) showing close-up of sampling site.

Photograph of St. Marys at SR 2

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	124
Hydrologic Score	1
LDI Score	1.09
SCI Score	100 A
Total Phosphorus Geometric Mean (mg/L)	0.017
Total Nitrogen Geometric Mean (mg/L)	1.27

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Exceptional" category, indicating an exceedingly diverse community of sensitive invertebrates, and demonstrating that the site is definitively meeting its Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	93.33
% Chlorophycota	4.00
% Euglenophycota	0.33
% Cyanophycota	2.33
Number of Taxa	54

No nuisance algal growth was found. Of the 54 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at St. Marys River at SR 2. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

NORTHEAST NUTRIENT REGION

Nutrient Benchmark Site Summary

St. Marys River @ Tompkins Landing

STORET Station 19010077

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.22, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silvicultural activities and pasture beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of St. Marys at Tompkins Landing (Station 19010077) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of St. Marys at Tompkins Landing (Station 19010077) showing close-up of sampling site.

Photograph of St. Marys at Tompkins Landing

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	114
Hydrologic Score	2
LDI Score	1.22
SCI Score	NA
Total Phosphorus Geometric Mean (mg/L)	0.043
Total Nitrogen Geometric Mean (mg/L)	0.87

The Habitat Assessment score was in the high end of the "Suboptimal" range (mostly due to limited substrate availability associated with low water conditions). Since very little habitat was submerged due to the unrepresentative low water level, SCI sampling was determined to be inappropriate (according to the Standard Operating Procedure) and was not conducted.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	75.50
% Chlorophycota	8.94
% Cryptophycophyta	0
% Cyanophycota	15.56
Number of Taxa	73

No visual evidence of algal growth or adverse aquatic growth was observed at this site. Of the 73 algal taxa found, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal communities) at St. Marys River at Tompkins Landing. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that no adverse algal or aquatic plant issues were present. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which suggest support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

PANHANDLE NUTRIENT REGION

Nutrient Benchmark Site Summary
Aucilla River @ Highway 90
STORET Station 22040004

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.06, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some field/pasture located well beyond the extensive riparian buffer zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of the Aucilla River (Station 22040004) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Aucilla River (Station 22040004) showing close-up of sampling site.

Photograph of the Aucilla River at Highway 90

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	126
Hydrologic Score	2
LDI Score	1.06
SCI Score	61 A
Total Phosphorus Geometric Mean (mg/L)	0.090
Total Nitrogen Geometric Mean (mg/L)	3.10

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Healthy" category, exhibiting a diverse assemblage of sensitive invertebrates and indicating the site is clearly meeting the Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	96.67
% Chlorophycota	1.33
% Cryptophycophyta	0
% Cyanophycota	2.00
Number of Taxa	30

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 30 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at the Aucilla River at Highway 90. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PANHANDLE NUTRIENT REGION

Nutrient Benchmark Site Summary

Blackwater River @ Highway 4 NW of Baker

STORET Station 3545

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.04, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of the Blackwater River (Station 21FLGW_3545) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Blackwater River (Station 21FLGW_3545) showing close-up of sampling site.

Photograph of the Blackwater River (Station 21FLGW_3545)

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	128
Hydrologic Score	1
LDI Score	1.04
SCI Score	70 A
Total Phosphorus Geometric Mean (mg/L)	0.009
Total Nitrogen Geometric Mean (mg/L)	0.40

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Exceptional" category, exhibiting a diverse assemblage of sensitive invertebrates and indicating the site is definitively meeting the Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	88.45
% Chlorophycota	2.31
% Cryptophycophyta	0
% Cyanophycota	2.31
% Euglenophycota	0.33
Number of Taxa	39

Very little periphyton was observed at this site, and there was no nuisance algal growth. Of the 39 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at the Blackwater River at Highway 4 NW of Baker. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

Nutrient Benchmark Site Summary

Econfina Creek @ Scott Road

STORET Station 32030023

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.57, suggesting benign human influences in the watershed. Before the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with silvicultural activities beyond the extensive riparian buffer zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of Econfina Creek (Station 32030023) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Econfina Creek (Station 32030023) showing close-up of sampling site.

Photograph of Econfina Creek at Scott Rd.

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	130
Hydrologic Score	1
LDI Score	1.57
SCI Score	81 A
Total Phosphorus Geometric Mean (mg/L)	0.010
Total Nitrogen Geometric Mean (mg/L)	0.26

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Exceptional" category, exhibiting a diverse assemblage of sensitive invertebrates and indicating the site is definitively meeting the Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	89.70
% Chlorophycota	5.65
% Cryptophycophyta	0
% Cyanophycota	3.65
% Euglenophycota	1.00
Number of Taxa	48

Minimal periphyton growth was observed at this site, which would allow for optimal substrate use by macroinvertebrates. There was no nuisance algal growth. Of the 48 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Econfina Creek at Scott Road. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PANHANDLE NUTRIENT REGION

Nutrient Benchmark Site Summary

Econfina River @ Highway 98

STORET Station TAY170LR

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.14, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture beyond an extensive riparian buffer zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of the Econfina River (Station TAY170LR) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Econfina River (Station TAY170LR) showing close-up of sampling site.

Photograph of the Econfina River at Hwy 98

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	99
Hydrologic Score	1
LDI Score	1.14
SCI Score	41A
Total Phosphorus Geometric Mean (mg/L)	0.066
Total Nitrogen Geometric Mean (mg/L)	1.21

The Habitat Assessment score was in the "Suboptimal" range due mostly to low water velocity (<0.05 m/s) and limited availability of wetted habitat, making natural drought the most influential stressor during the most recent site visit. Prior to this event, the two most recent SCI samples for this site, which were collected during normal water levels on 2/23/06 and 8/2/05, scored 40 and 42, respectively. Both of these score were in the "Healthy" category, and the average of these scores is shown in the table. From 1996 to 1998, a total of 18 SCIs were performed at a site located approximately 3000 m above Highway 98 as part of a study to evaluate the effectiveness of forestry best management practices. All 18 of these SCIs scored in the category referred to as "excellent" in that version of the index, indicating that this site has a long demonstrated history of healthy biota.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	86.67
% Chlorophycota	7.0
% Cryptophycophyta	0
% Cyanophycota	6.33
Number of Taxa	36

Filamentous algal growth was observed on the shallow, rocky substrate in the first 20 m of the site, but very little periphyton was observed in the rest of the stretch. This patch of filamentous algae was likely favored by the low water conditions. Of the 36 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at the Econfina River at Hwy 98. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PANHANDLE NUTRIENT REGION

Nutrient Benchmark Site Summary
Escambia River @ Highway 4
STORET Station 3549

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.27, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture and field/pasture beyond an extensive riparian buffer zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of the Escambia River (Station 21FLGW_3549) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Escambia River (Station 21FLGW_3549) showing close-up of sampling site. An extensive forested buffer is present on both sides of the river.

Photograph of the Escambia River (Station 21FLGW_3549)

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	120
Hydrologic Score	2
LDI Score	1.27
SCI Score	51 A
Total Phosphorus Geometric Mean (mg/L)	0.041
Total Nitrogen Geometric Mean (mg/L)	0.55

The Habitat Assessment score was in the "Optimal" range, although substrate availability was somewhat limited due to the overall large size of the river. The SCI score was in the "Healthy" category, exhibiting a diverse assemblage of sensitive invertebrates and indicating the site is clearly meeting the Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	84.72
% Chlorophycota	5.98
% Cryptophycophyta	0
% Cyanophycota	9.30
Number of Taxa	43

Very little periphyton was observed at this site, and there was no nuisance algal growth. Of the 43 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at the Escambia River at Highway 4. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PANHANDLE NUTRIENT REGION

Nutrient Benchmark Site Summary

Escambia River @ Highway 184

STORET Station 33020007 / 3541

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.18, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture and agricultural activities well beyond an extensive riparian buffer zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of the Escambia River @ 184 showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Escambia River @ 184 showing close-up of sampling site. An extensive forested buffer is present on both sides of the river.

Photograph of the Escambia River at Highway 184 (Station 21FLGW_3541)

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	115
Hydrologic Score	2
LDI Score	1.18
SCI Score	NA
Total Phosphorus Geometric Mean (mg/L)	0.035
Total Nitrogen Geometric Mean (mg/L)	0.53

The Habitat Assessment score was in the high end of the "Suboptimal" range, predominantly due to lack of water velocity and limited substrate availability, related to the overall large size of the system. SCI sampling was not conducted because of the "lake-like" conditions present, and lack of water velocity in areas where accessible habitats were located, in accordance with the Standard Operating Procedures.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	83.72
% Chlorophycota	1.66
% Cryptophycophyta	0
% Cyanophycota	14.62
Number of Taxa	52

Minimal periphyton growth was observed at this site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 52 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, algal community, and local land use) at the Escambia River at Highway 184. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that no adverse algal or aquatic plant issues were present. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which suggest support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

PANHANDLE NUTRIENT REGION

Nutrient Benchmark Site Summary

Mule Creek @ SR 12

STORET Station LIB104LV

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.31, suggesting benign human influences in the watershed. Before the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the watershed land use was predominately forest/natural with some silviculture. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of Mule Creek (Station LIB104LV) showing watershed vicinity and land use

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Mule Creek (Station LIB104LV) showing close-up of sampling site

Photograph of Mule Creek

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	132
Hydrologic Score	2
LDI Score	1.31
SCI Score	67 A
Total Phosphorus Geometric Mean (mg/L)	0.033
Total Nitrogen Geometric Mean (mg/L)	0.50

The Habitat Assessment score was in the "Optimal" range. The SCI scored in the "Exceptional" category, therefore Mule Creek hosts a diverse community of sensitive aquatic macroinvertebrates.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	99.0
% Chlorophycota	0
% Cryptophycophyta	0
% Cyanophycota	1.0
Number of Taxa	22

Minimal periphyton growth was observed at the site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 22 algal taxa observed, the majority of the periphyton community was composed of diatoms. No problematic filamentous algal growth was found.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Mule Creek. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PANHANDLE NUTRIENT REGION

Nutrient Benchmark Site Summary
Quincy Creek above 267
STORET Station 22020093

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.34, suggesting benign human influences in the watershed. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with silviculture, agriculture, and field/pasture located beyond an adequate riparian buffer zone. There are no direct point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of Quincy Creek (Station 22020093) showing watershed vicinity and land use

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Quincy Creek near 267 (Station 22020093) showing close-up of sampling site


Photograph of Quincy Creek upstream of 267

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	122
Hydrologic Score	3
LDI Score	1.34
SCI Score	57 A
Total Phosphorus Geometric Mean (mg/L)	0.110
Total Nitrogen Geometric Mean (mg/L)	0.58

The Habitat Assessment score was in the "Optimal" range. Extensive deposits of "pipe clay" (Attapulgite) were noted throughout the stream, a natural geologic feature which would be expected to contribute total phosphorus to the water. The Stream Condition Index scored in the "Healthy" category, indicating a diverse assemblage of macroinvertebrates, and demonstrating that the site is meeting its Class III designated use.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	93.0
% Chlorophycota	2.0
% Cryptophycophyta	0
% Cyanophycota	5.0
Number of Taxa	53

Minimal periphyton growth was observed at the site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 53 algal taxa observed, the majority of the periphyton community was composed of diatoms. No problematic filamentous algal growth was found.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Quincy Creek, upstream of 267. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PANHANDLE NUTRIENT REGION

Nutrient Benchmark Site Summary

Sopchoppy River

STORET Station WAK158LR

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.13, suggesting benign human influences in the watershed. Before the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural, with some limited silviculture beyond an extensive riparian buffer zone. The watershed lies within the Apalachicola National Forest. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of the Sopchoppy River (Station WAK158LR) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Sopchoppy River (Station WAK158LR) showing close-up of sampling site. An extensive riparian forested buffer is present on both sides of the system.

Photograph of the Sopchoppy River (Station WAK158LR)

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	128
Hydrologic Score	1
LDI Score	1.13
SCI Score	64 A
Total Phosphorus Geometric Mean (mg/L)	0.026
Total Nitrogen Geometric Mean (mg/L)	0.60

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Healthy" category, indicating that the site contains a diverse assemblage of sensitive invertebrates and is meeting its Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	73.05
% Chlorophycota	4.55
% Cryptophycophyta	0
% Cyanophycota	22.40
Number of Taxa	54

While a small amount of filamentous algae was found, the majority of the site had minimal periphyton growth. Of the 54 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at the Sopchoppy River. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PANHANDLE NUTRIENT REGION

Nutrient Benchmark Site Summary

St. Marks River

STORET Station WAK168LR

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.40, suggesting benign human influences in the watershed. Before the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the watershed land use was predominately forest/natural with some silviculture beyond a forested riparian buffer zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of the Saint Marks River (Station WAK168LR) showing watershed vicinity and land use

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Saint Marks River (Station WAK168LR) showing close-up of sampling site

Photograph of the Saint Marks River

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	155
Hydrologic Score	2
LDI Score	1.40
SCI Score	45 A
Total Phosphorus Geometric Mean (mg/L)	0.040
Total Nitrogen Geometric Mean (mg/L)	0.25

The Habitat Assessment score was in the "Optimal" range. The SCI scored in the "Healthy" category, which indicates a diverse assemblage of aquatic invertebrates, and demonstrated that the stream is meeting its Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	91.36
% Chlorophycota	0.66
% Cryptophycophyta	1.00
% Cyanophycota	6.98
Number of Taxa	43

Nuisance algal growth was not an issue at this site, although moderate periphyton growth was observed in isolated areas of the sampling reach, thought to be a natural condition. There was no habitat smothering (this element scored in the optimal range). Of the 43 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and aquatic invertebrate communities) at the Saint Marks River. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PANHANDLE NUTRIENT REGION

Nutrient Benchmark Site Summary

Swamp Creek at SR 159

STORET Station S232

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.51, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with minimal areas of silviculture and field/pasture located beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

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DOQQ 2004 aerial photograph of Swamp Creek @ SR 159 (Station S232) showing watershed vicinity and land use

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Swamp Creek @ SR 159 (Station S232) showing close-up of sampling site

Photograph of Swamp Creek at SR 159

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	112
Hydrologic Score	2
LDI Score	1.51
SCI Score	49 A
Total Phosphorus Geometric Mean (mg/L)	0.170
Total Nitrogen Geometric Mean (mg/L)	0.75

The Habitat Assessment score was in the high end of the "Suboptimal" range. The Stream Condition Index scored in the "Healthy" category, indicating a diverse assemblage of macroinvertebrates, and demonstrating that the site is meeting its Class III designated use.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	67.43
% Chlorophycota	5.92
% Cryptophycophyta	0
% Cyanophycota	25.99
% Euglenophycota	0.66
Number of Taxa	65

Minimal periphyton growth was observed at the site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 65 algal taxa observed, the majority of the periphyton community was composed of diatoms. No problematic filamentous algal growth was found.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Swamp Creek at SR 159. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PANHANDLE NUTRIENT REGION

Nutrient Benchmark Site Summary
Telogia Creek @ CR 1641
STORET Station NUTREF001

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.24, suggesting benign human influences in the watershed. Before the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Telogia Creek (Station NUTREF001) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Telogia Creek (Station NUTREF001) showing close-up of sampling site.

Photograph of Telogia Creek at CR 1641

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	131
Hydrologic Score	1
LDI Score	1.24
SCI Score	78 A
Total Phosphorus Geometric Mean (mg/L)	0.067
Total Nitrogen Geometric Mean (mg/L)	0.47

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Exceptional" category, indicating an unusually diverse assemblage of sensitive aquatic invertebrates, definitively supporting the Class III designation.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	85.0
% Chlorophycota	0.33
% Cryptophycophyta	0
% Cyanophycota	14.67
Number of Taxa	40

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 40 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Telogia Creek at CR 1641. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PANHANDLE NUTRIENT REGION

Nutrient Reference Site Summary
Wacissa River near Big Blue Spring
STORET Station 22040009

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.03, suggesting benign human influences in the watershed. Before the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with silvicultural activities beyond and extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Wacissa River (Station 22040009) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Wacissa River (Station 22040009) showing close-up of sampling site.


Photograph of the Wacissa River near the headwaters.

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	138
Hydrologic Score	1
LDI Score	1.03
SCI Score	40 A
Total Phosphorus Geometric Mean (mg/L)	0.046
Total Nitrogen Geometric Mean (mg/L)	0.29

The Habitat Assessment score was in the high end of the "Suboptimal" range. The SCI score was in the "Healthy" category, exhibiting a diverse assemblage of sensitive invertebrates and indicating the site is clearly meeting the Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	85.43
% Chlorophycota	2.65
% Cryptophycophyta	0
% Cyanophycota	11.92
Number of Taxa	50

There was a minimal amount of periphyton at this site, with no nuisance algal growth. Of the 50 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at the Wacissa River near Big Blue Spring. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PANHANDLE NUTRIENT REGION

Nutrient Benchmark Site Summary

Yellow River at Highway 2

STORET Station 3546

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.24, suggesting benign human influences in the watershed. Before the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Yellow River at Hwy 2 (Station 21FLGW_ 3546) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Yellow River (Station 21FLGW_ 3546) showing close-up of sampling site. An extensive riparian forested buffer is present on both sides of the system.

Photograph of the Yellow River near Hwy 2

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	137
Hydrologic Score	1
LDI Score	1.24
SCI Score	79 A
Total Phosphorus Geometric Mean (mg/L)	0.024
Total Nitrogen Geometric Mean (mg/L)	0.40

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Exceptional" category, exhibiting a diverse assemblage of sensitive invertebrates and indicating the site is definitively meeting the Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	90.07
% Chlorophycota	1.99
% Cryptophycophyta	0
% Cyanophycota	7.95
Number of Taxa	50

Very little periphyton was observed at this site, and there was no nuisance algal growth. Of the 50 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at the Yellow River at Highway 2. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PANHANDLE NUTRIENT REGION

Nutrient Benchmark Site Summary

Yon Creek @ SR 12

STORET Station GAD106GS

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.26, suggesting benign human influences in the watershed. Before the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with some silviculture and field/pasture located beyond an extensive forested riparian buffer zone. There are no known point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Yon Creek (Station GAD106GS) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Yon Creek (Station GAD106GS) showing close-up of sampling site.

Photograph of Yon Creek @ SR 12

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	137
Hydrologic Score	2
LDI Score	1.26
SCI Score	81 A
Total Phosphorus Geometric Mean (mg/L)	0.083
Total Nitrogen Geometric Mean (mg/L)	0.86

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Exceptional" category, indicating an unusually diverse community of sensitive aquatic invertebrates, and demonstrating that the stream is definitively meeting its Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	98.00
% Chlorophycota	0
% Cryptophycophyta	0
% Cyanophycota	2.00
Number of Taxa	23

Minimal periphyton growth was observed at this site, which would allow for optimal substrate use by macroinvertebrates. There was no nuisance algal growth. Of the 23 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Yon Creek @ SR 12. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PENINSULA NUTRIENT REGION

Nutrient Benchmark Site Summary
Bee Branch
STORET Station 28020299FTM

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.64, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with small areas of citrus and field/pasture observed beyond the forested buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Bee Branch (Station 28020299FTM) showing watershed vicinity and land use. The headwaters drain an area dominated by pine flatwoods, prairie, and wetlands.

Image Removed Due to Copyright.
DOQQ 2004 aerial l photograph of Bee Branch (Station 28020299FTM) showing close-up of sampling site. An extensive forested riparian zone was evident of both sides of the system.

Photographs of Bee Branch (Station 28020299FTM).

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	147
Hydrologic Score	3
LDI Score	1.64
SCI Score	49 A
Total Phosphorus Geometric Mean (mg/L)	0.080
Total Nitrogen Geometric Mean (mg/L)	1.13

The habitat assessment scored in the "Optimal" range. The Stream Condition Index scored in the "Healthy" category, exhibiting a diverse assemblage of sensitive invertebrates and indicating the site is clearly meeting the Class III designated use.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	91.33
% Chlorophycota	2.67
% Euglenophycota	0.67
% Cyanophycota	4.67
Number of Taxa	60

Minimal periphyton growth was observed at the site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 60 algal taxa observed, the majority of the periphyton community was composed of diatoms. No problematic filamentous algal growth was found.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal community) at Bee Branch. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

PENINSULA NUTRIENT REGION

Nutrient Reference Site Summary

Blackwater Creek at State Road 44A

STORET Station ALT_BWC44 (20010455)

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.09, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with small areas of silviculture, and field/pasture observed beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Blackwater Creek at State Road 44A (Station BWC44 or 20010455) showing watershed vicinity and land use. The system originates in Lake Norris, an undeveloped lake surrounded by wetland.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Blackwater Creek at State Road 44A (Station BWC44 or 20010455) showing close-up of sampling site. An extensive forested riparian zone was evident on both sides of the system.


Photographs of Blackwater Creek at State Road 44A

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	125
Hydrologic Score	2
LDI Score	1.09
SCI Score	77 A
Total Phosphorus Geometric Mean (mg/L)	0.050
Total Nitrogen Geometric Mean (mg/L)	1.60

The habitat assessment scored in the "Optimal" range, and the Stream Condition Index scored in the "Exceptional" category, indicating an unusually diverse assemblage of sensitive invertebrates, definitively supporting the Class III designation.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	93.0
% Chlorophycota	0
% Cryptophycophyta	0
% Cyanophycota	7.0
Number of Taxa	45

Minimal periphyton growth was observed at the site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 45 algal taxa observed, the majority of the periphyton community was composed of diatoms. No problematic filamentous algal growth was found.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (hydrology, habitat assessment, local land use, algal and macroinvertebrate communities) at Blackwater Creek at State Road 44A. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

PENINSULA NUTRIENT REGION

Nutrient Benchmark Site Summary

Blackwater Creek upstream of Carter Prop Bridge

STORET Station BWCCPB / 20010536

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.31, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with small areas of silviculture, and field/pasture observed beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Blackwater Creek upstream of Carter Prop Bridge (Station BWCCPB) showing watershed vicinity and land use. The system originates in Lake Norris, an undeveloped lake surrounding by wetland.

Image Removed Due to Copyright.
DOQQ aerial photograph of Blackwater Creek upstream of Carter Prop Bridge (Station BWCCPB) showing close-up of sampling site. An extensive forested riparian zone was evident of both sides of the system.

Photographs of Blackwater Creek upstream of Carter Prop Bridge

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	130
Hydrologic Score	2
LDI Score	1.31
Total Phosphorus Geometric Mean (mg/L)	0.054
Total Nitrogen Geometric Mean (mg/L)	1.28

The habitat assessment scored in the "Optimal" range. High water caused by recent rains made Stream Condition Index sampling inappropriate according to DEP standard operating procedures. Results from a Biorecon that was performed 2/7/2007 demonstrated that this site scored in the "healthy" range, indicating that the Class III designation is being fully supported.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	72.43
% Chlorophycota	15.28
% Cryptophycophyta	0.33
% Cyanophycota	7.31
% Euglenophycota	2.99
Number of Taxa	72

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 72 algal taxa observed, the majority of the periphyton community was composed of diatoms.

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Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (hydrology, local land use, and algal communities) at Blackwater Creek, upstream of Carter Prop Bridge. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

PENINSULA NUTRIENT REGION

Nutrient Benchmark Site Summary
Cow Creek @ CR 138
STORET Station 21030086

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.61, suggesting benign human influences in the watershed. Before and during the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural with some silvicultural activities and field/pasture beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Cow Creek @ CR 138 showing watershed vicinity and land use

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Cow Creek @ CR 138 showing close-up of sampling site

Photograph of Cow Creek near CR 138

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	134
Hydrologic Score	2
LDI Score	1.61
SCI Score	NA
Total Phosphorus Geometric Mean (mg/L)	0.114
Total Nitrogen Geometric Mean (mg/L)	0.39

The Habitat Assessment score was in the "Optimal" range. Stream Condition Index sampling was not performed at this site due to the low water level and the possibility of recent desiccation, in accordance with the Standard Operating Procedure.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	72.61
% Chlorophycota	1.32
% Cryptophycophyta	0
% Cyanophycota	25.74
Number of Taxa	64

Minimal periphyton growth was observed at the site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 64 algal taxa observed, the majority of the periphyton community was composed of diatoms. No problematic filamentous algal growth was found.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal communities) at Cow Creek @ CR 138. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that no adverse algal or aquatic plant issues were present. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which suggest support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

PENINSULA NUTRIENT REGION

Nutrient Benchmark Site Summary

Cypress Branch above 78

STORET Station 28020239 / GLA630GS

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.21 suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with areas of citrus and field/pasture observed beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Cypress Branch (Station GLA630GS) showing watershed vicinity and land use. The stream originates in an area of prairie, flatwoods, and swamp.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Cypress Branch (Station GLA630GS) showing close-up of sampling site. An extensive riparian forested zone is generally present on both sides of the system throughout the watershed, with a minimum of a 75-100 m buffer.

Photograph of Cypress Branch (Station GLA630GS).

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	134
Hydrologic Score	2
LDI Score	1.21
SCI Score	63 A
Total Phosphorus Geometric Mean (mg/L)	0.131
Total Nitrogen Geometric Mean (mg/L)	1.97

The habitat assessment scored in the "Optimal" range, and the Stream Condition Index scored in the "Healthy" category, indicating a diverse assemblage of sensitive invertebrates, and fully supporting the Class III designation.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	91.33
% Chlorophycota	0
% Cryptophycophyta	0
% Cyanophycota	8.67
Number of Taxa	48

Very little periphyton was observed at the site, which would allow optimal substrate use by macroinvertebrates. No nuisance algal growth was found. Of the 48 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, and local land use) at Cypress Branch. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

PENINSULA NUTRIENT REGION

Nutrient Benchmark Site Summary

Econlockhatchee River at Snowhill Road

STORET Station ECH

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.14, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with small areas of silviculture, and field/pasture observed beyond the forested buffer zone.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Econlockhatchee River at Snowhill Road (Station ECH) showing watershed vicinity and land use. The system originates in the Econlockhatchee River Swamp, an extensive wetland area.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Econlockhatchee River at Snowhill Road (Station ECH) showing close-up of sampling site. An extensive forested riparian zone was evident of both sides of the system.

Photographs of Econlockhatchee River at Snowhill Road

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	106
Hydrologic Score	2
LDI Score	1.14
SCI Score	52 A
Total Phosphorus Geometric Mean (mg/L)	0.098
Total Nitrogen Geometric Mean (mg/L)	0.93

The habitat assessment score of 106 placed this site in the high "Suboptimal" range. The Stream Condition Index score of 52 was in the "Healthy" category, exhibiting a diverse assemblage of sensitive invertebrates and indicating the site is clearly meeting the Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	90.31
% Chlorophycota	1.38
% Cryptophycophyta	0
% Cyanophycota	8.3
Number of Taxa	53

Minimal periphyton growth was observed at the site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 53 algal taxa observed, the majority of the periphyton community was composed of diatoms. No problematic filamentous algal growth was found.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Econlockhatchee River at Snowhill Road. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

PENINSULA NUTRIENT REGION

Nutrient Benchmark Site Summary

Little Orange Creek

STORET Station PUT308GS

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 2.01, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with small areas of silviculture and field/pasture observed beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Little Orange Creek (Station PUT308GS) showing watershed vicinity and land use. The stream originates from Little Orange Lake, an undeveloped system surrounded by forest and swamp.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Little Orange Creek (Station PUT308GS) showing close-up of sampling site. An extensive riparian forested buffer is generally present on both sides of the system throughout the watershed, with one small clear-cut area approaching within 75 m of the stream.

Photograph of Little Orange Creek

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	131
Hydrologic Score	2
LDI Score	2.01
SCI Score	75 A
Total Phosphorus Geometric Mean (mg/L)	0.201
Total Nitrogen Geometric Mean (mg/L)	1.13

The habitat assessment scored in the "Optimal" range, and the Stream Condition Index scored in the "Exceptional" category, indicating an unusually diverse assemblage of sensitive invertebrates, definitively supporting the Class III designated use. This is one of the few peninsular sites where Plecopterans (stoneflies, known to be extremely sensitive to stress) are routinely found.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	86.6
% Chlorophycota	5.7
% Cryptophycophyta	0
% Cyanophycota	7.4
Number of Taxa	48

Minimal periphyton growth was observed at the site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 48 algal taxa observed, the majority of the periphyton community was composed of diatoms. No problematic filamentous algal growth was found.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Little Orange Creek. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

PENINSULA NUTRIENT REGION

Nutrient Benchmark Site Summary

Little Orange Creek below Cabbage Creek

STORET Station LOCBCC

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.54, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with small areas of silviculture, and field/pasture observed beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Little Orange Creek below Cabbage Creek (Station LOCBCC) showing watershed vicinity and land use. Little Orange Creek originates from Little Orange Lake, a completely undeveloped system surrounded by forest, and associated wetlands.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Little Orange Creek below Cabbage Creek (Station LOCBCC) showing close-up of sampling site. An extensive riparian forested wetland buffer is present on both sides of the system.

Photographs of Little Orange Creek below Cabbage Creek

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	132
Hydrologic Score	2
LDI Score	1.54
SCI Score	89 A
Total Phosphorus Geometric Mean (mg/L)	0.067
Total Nitrogen Geometric Mean (mg/L)	0.70

The habitat assessment scored in the "Optimal" range, and the Stream Condition Index scored in the "Exceptional" category, indicating an unusually diverse assemblage of sensitive invertebrates, definitively supporting the Class III designation.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	84.52
% Chlorophycota	5.16
% Cryptophycophyta	0
% Cyanophycota	10.32
Number of Taxa	54

Minimal periphyton growth was observed at the site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 54 algal taxa observed, the majority of the periphyton community was composed of diatoms. No problematic filamentous algal growth was found.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Little Orange Creek below Cabbage Creek. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

Nutrient Benchmark Site Summary

Moses Creek at US 1

STORET Station 27010050

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.24, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with small areas of silviculture, and field/pasture observed beyond the forested buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Moses Creek at US 1 (Station 27010050) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Moses Creek at US 1 (Station 27010050) showing close-up of sampling site. Moses Creek originates in an area of pine flatwoods and swamp. An extensive riparian forested buffer is present on both sides of the system.

Photograph of Moses Creek at US 1

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	138
Hydrologic Score	1
LDI Score	1.24
SCI Score	60 A
Total Phosphorus Geometric Mean (mg/L)	0.081
Total Nitrogen Geometric Mean (mg/L)	1.03

The habitat assessment scored in the "Optimal" range. The Stream Condition Index score of 60 was in the "Healthy" category, exhibiting a diverse assemblage of sensitive invertebrates and indicating the site is meeting the Class III designated use.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	14.33
% Chlorophycota	1.33
% Euglenophycota	1.67
% Cyanophycota	81.67
Number of Taxa	71

Minimal periphyton growth was observed at the site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 71algal taxa observed, including 66 diatom taxa, the majority of the periphyton community was composed of blue-green algae. No problematic filamentous algal growth was found.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, and local land use) at Moses Creek at US 1. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

PENINSULA NUTRIENT REGION

Nutrient Benchmark Site Summary

Orange Creek Upstream of Highway 21

STORET Station 21202

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.7, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with small areas of silviculture and field/pasture observed beyond a forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Orange Creek upstream of Highway 21 (Station 21202) showing watershed vicinity and land use. The stream originates from Orange Lake, an Outstanding Florida Water.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Orange Creek upstream of HWY 21 (Station 21202) showing close-up of sampling site. An extensive riparian forested wetland buffer is present on both sides of the system.

Photograph of Orange Creek upstream of Highway 21

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	121
Hydrologic Score	3
LDI Score	1.74
SCI Score	74 A
Total Phosphorus Geometric Mean (mg/L)	0.125
Total Nitrogen Geometric Mean (mg/L)	1.43

The habitat assessment scored in the "Optimal" range, and the Stream Condition Index scored in the "Exceptional" category, indicating an unusually diverse assemblage of sensitive invertebrates. This is one of the few peninsular sites where Plecopterans (stoneflies, known to be extremely sensitive to stress) are routinely found.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	90.38
% Chlorophycota	1.37
% Cryptophycophyta	0
% Cyanophycota	8.25
Number of Taxa	51

Minimal periphyton growth was observed at the site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 51 algal taxa observed, the majority of the periphyton community was composed of diatoms. No problematic filamentous algal growth was found.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Orange Creek, upstream of Highway 21. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

PENINSULA NUTRIENT REGION

Nutrient Benchmark Site Summary

St. Johns River near DeLand

STORET Station 2236000

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.68, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with small areas of silviculture, and field/pasture observed beyond the forested buffer zone.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of St. John's River near DeLand (Station 2236000) showing watershed vicinity and land use. The system originates from Blue Cypress Lake, a completely undeveloped system surrounding by forest and wetlands.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of St. John's River near DeLand (Station 2236000) showing close-up of sampling site. An extensive riparian forested wetland buffer is present on both sides of the system.

Photographs of St. John's River near DeLand

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	128
Hydrologic Score	4
LDI Score	1.68
SCI Score	NA
Total Phosphorus Geometric Mean (mg/L)	0.078
Total Nitrogen Geometric Mean (mg/L)	1.39

The habitat assessment scored in the "Optimal" range. This system is characterized by very low flow, therefore Stream Condition Index sampling was inappropriate according to DEP standard operating procedures. Aquatic vegetation present was typical of sluggish, open systems and there were no nuisance plant issues.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	88.2
% Chlorophycota	2.4
% Cryptophycophyta	0
% Cyanophycota	9.5
Number of Taxa	53

Minimal periphyton growth was observed at the site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 53 algal taxa observed, the majority of the periphyton community was composed of diatoms. No problematic filamentous algal growth was found.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal communities) at the St. Johns River near Deland. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and based upon observations during the site visit, that no adverse algal or aquatic plant issues were present. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which suggest support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

PENINSULA NUTRIENT REGION

Nutrient Benchmark Site Summary

Steinhatchee River @ Canal Road

STORET Station 22050083 / STN020C1

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.11, suggesting benign human influences in the watershed. Before the site visit, aerial photographs were examined to assess the watershed land use. Direct observations during the site visit confirmed that the majority of the watershed land use was forest/natural with silviculture beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Steinhatchee River (Station 22050083) showing watershed vicinity and land use.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Steinhatchee River (Station 22050083) showing close-up of sampling site.

Photograph of Steinhatchee River at Canal Road

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	151
Hydrologic Score	2
LDI Score	1.11
SCI Score	41 A
Total Phosphorus Geometric Mean (mg/L)	0.087
Total Nitrogen Geometric Mean (mg/L)	0.94

The Habitat Assessment score was in the "Optimal" range. The SCI score was in the "Healthy" category, exhibiting a diverse assemblage of sensitive invertebrates and indicating the site is meeting the Class III designated use.

Periphyton Community Composition

Algal Community Structure	% Composition
% Bacillariophyta	60.13
% Chlorophycota	3.65
% Cryptophycophyta	0
% Cyanophycota	36.21
Number of Taxa	54

This site had an isolated area of *Rhizoclonium* sp. mats, where the canopy was open and the water was shallow over rocky substrate. Throughout the majority of the site, only small to moderate amounts of algae were present, and this did not affect the inhabitability of the substrates by invertebrates. Of the 54 algal taxa observed, the majority of the periphyton community was composed of diatoms.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at the Steinhatchee River at Canal Rd. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PENINSULA NUTRIENT REGION

Nutrient Benchmark Site Summary
Steven's Branch off CR 204
STORET Station 27010070

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.29, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with small areas of silviculture, and field/pasture observed beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Steven's Branch off CR 204 (Station 27010070) showing watershed vicinity and land use. Steven's Branch originates in an area of pine flatwoods, wetlands and prairie.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Steven's Branch off CR 204 (Station 27010070) showing close-up of sampling site. An extensive riparian forested buffer is present on both sides of the system.

Photographs of Steven's Branch off CR 204 (Station 27010070)

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	128
Hydrologic Score	3
LDI Score	1.29
SCI Score	76 A
Total Phosphorus Geometric Mean (mg/L)	0.120
Total Nitrogen Geometric Mean (mg/L)	1.09

The habitat assessment scored in the "Optimal" range, and the Stream Condition Index scored in the "Exceptional" category, indicating an unusually diverse assemblage of sensitive invertebrates, definitively supporting the Class III designation.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	75.14
% Chlorophycota	3.39
% Cryptophycophyta	0
% Cyanophycota	21.47
Number of Taxa	66

Minimal periphyton growth was observed at the site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 66 algal taxa observed, the majority of the periphyton community was composed of diatoms. No problematic filamentous algal growth was found.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Steven's Branch off CR 204. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which demonstrate full support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

PENINSULA NUTRIENT REGION

Nutrient Benchmark Site Summary
Tosohatchee Creek @ WMA
STORET Station ORA331LV

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.50, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with small areas of silviculture and field/pasture observed beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Tosohatchee Creek (Station ORA331LV) showing watershed vicinity and land use. The stream originates in a swampy area adjacent to Tosohatchee Creek State Preserve.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Tosohatchee Creek (Station ORA331LV) showing close-up of sampling site. An extensive riparian forested wetland buffer is present on both sides of the system.

Photograph of Tosohatchee Creek (Station ORA331LV).

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	116
Hydrologic Score	1
LDI Score	1.50
SCI Score	NA
Total Phosphorus Geometric Mean (mg/L)	0.034
Total Nitrogen Geometric Mean (mg/L)	0.77

The habitat assessment scored in the high "Suboptimal" range, with water velocity being the lowest scoring parameter. The site was deemed inappropriate for SCI sampling due to the swamp-like nature of the system and lack of water flow. Vegetation present was typical of minimally disturbed swamp systems.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	89.00
% Chlorophycota	0.33
% Euglenophycota	0.33
% Cyanophycota	10.33
Number of Taxa	56

Of the 56 algal taxa identified, the majority of the periphyton community was composed of diatoms. No problematic filamentous algae were observed.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, algal community, and local land use) at Tosohatchee Creek. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that no adverse algal or aquatic plant issues were present. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which suggest support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

PENINSULA NUTRIENT REGION

Nutrient Benchmark Site Summary

Waccasassa River above SR 24

STORET Station LEV502GS

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.23, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with small areas of silviculture, and field/pasture observed beyond the forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Waccasassa River (Station LEV502GS) showing watershed vicinity and land use. The Wacasassa River originates in an area of hardwood swamp known as Devils Hammock.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of the Waccasassa River (Station LEV502GS) showing close-up of sampling site. Although there was some encroachment from a clear cut area near the site, extensive riparian forested wetland buffer is present on both sides for the majority of the system. Note that the forested buffer still exceeded approximately 75 m at minimum, and was generally several hundred m wide.

Photographs of the Waccasassa River

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	138
Hydrologic Score	1
LDI Score	1.23
SCI Score	69 A
Total Phosphorus Geometric Mean (mg/L)	0.065
Total Nitrogen Geometric Mean (mg/L)	0.63

The habitat assessment scored in the high "Optimal" range, and the Stream Condition Index scored in the "Exceptional" category, indicating an unusually diverse assemblage of sensitive invertebrates, definitively supporting the Class III designation.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	84.24
% Chlorophycota	0.32
% Cryptophycophyta	0
% Cyanophycota	15.43
Number of Taxa	46

Minimal periphyton growth was observed at the site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 46 algal taxa observed, the majority of the periphyton community was composed of diatoms. Although some filamentous algal growth was found in a few small areas, it did not affect habitat suitability, as evidenced by the very good SCI score.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at the Waccasassa River. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PENINSULA NUTRIENT REGION

Nutrient Benchmark Site Summary

Withlacoochee River at SR 471

STORET Station WITHLACOORVR1

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.45, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with small areas of silviculture and field/pasture observed beyond an extensive forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
Aerial photograph of Withlacoochee River at SR 471 (Station WITHLACOORVR1) showing watershed vicinity and land use. The Withlacoochee River originates in the Green Swamp, an extensive wetland with considerable areas in public ownership.

Image Removed Due to Copyright.
Aerial photograph of Withlacoochee River at SR 471 (Station WITHLACOORVR1) showing close-up of sampling site. An extensive riparian forested wetland buffer is present on both sides of the system.

Photograph of Withlacoochee River at SR 471 (Station WITHLACOORVR1).

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	119
Hydrologic Score	2
LDI Score	1.45
SCI Score	46 A
Total Phosphorus Geometric Mean (mg/L)	0.080
Total Nitrogen Geometric Mean (mg/L)	1.68

The habitat assessment scored in the high "suboptimal" range due to no water velocity. The Stream Condition Index was not performed during this site visit due to low water levels and minimal stream velocity. However, sites both upstream (station 33449) and downstream (station 34401) of the sampling location and within the same WBID received "healthy" SCI designations in 2007, (51 A and 40 A, respectively) indicating that the water quality is fully supporting the Class III designated use. These scores were averaged for the above table.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	85.95
% Chlorophycota	1.3
% Cryptophycophyta	0
% Cyanophycota	12.1
% Euglenophycota	0.7
Number of Taxa	61

Minimal periphyton growth was observed at the site, which would allow for optimal substrate use by benthic invertebrate and fish communities. Of the 61 algal taxa observed, the majority of the periphyton community was composed of diatoms. No problematic filamentous algal growth was found.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) Withlacoochee River at SR 471. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PENINSULA NUTRIENT REGION

Nutrient Benchmark Site Summary

Withlacoochee River at Stokes Ferry

STORET Station 3513

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.82, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with small areas of silviculture, field/pasture, and residential uses observed beyond a forested riparian buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Withlacoochee River at Stokes Ferry (Station 3513) showing watershed vicinity and land use. The Withlacoochee River originates in the Green Swamp, a very large wetland with considerable areas in public ownership.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Withlacoochee River at Stokes Ferry (Station 3513) showing close-up of sampling site. An extensive riparian forested wetland buffer is present on both sides of the system.

Photographs of the Withlacoochee River at Stokes Ferry

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	153
Hydrologic Score	4
LDI Score	1.82
SCI Score	68 A
Total Phosphorus Geometric Mean (mg/L)	0.043
Total Nitrogen Geometric Mean (mg/L)	0.86

The habitat assessment scored in the high "Optimal" range, and the Stream Condition Index scored in the "Exceptional" category, indicating an unusually diverse assemblage of sensitive invertebrates, definitively supporting the Class III designated use.

Periphyton Community Composition

Algal Community Stricture	% Composition
% Bacillariophyta	90.24
% Chlorophycota	0.7
% Cryptophycophyta	0
% Cyanophycota	9.06
Number of Taxa	40

Moderate periphyton growth was observed at the site; however, substrate availability for benthic invertebrates was not problematic, as evidenced by the "exceptional" SCI score. Of the 40 algal taxa observed, the majority of the periphyton community was composed of diatoms. No problematic filamentous algal growth was found, despite the relatively open, sunny conditions characteristic of the site.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology, local land use, and algal and macroinvertebrate communities) at Withlacoochee River at Stokes Ferry. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that it clearly maintained healthy biological assemblages. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota demonstrated to be fully supportive of the designated use (healthy, well balanced populations of aquatic organisms).

PENINSULA NUTRIENT REGION

Nutrient Benchmark Site Summary

Withlacoochee River at Trails End

STORET Station FL0052000087500

Land Use

This station was considered to be a candidate reference site based on the Landscape Development Intensity Index score of 1.34, suggesting benign human influences in the watershed. During the site visit, aerial photographs were examined and direct observations confirmed that the majority of the watershed land use was forest/natural, with small areas of silviculture, field/pasture, and residential uses observed beyond the forested buffer zone. There are no point source discharges upstream of the site.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Withlacoochee River at Trails End (Station FL0052000087500) showing watershed vicinity and land use. The Withlacoochee River originates in the Green Swamp, a very large wetland with considerable areas in public ownership.

Image Removed Due to Copyright.
DOQQ 2004 aerial photograph of Withlacoochee River at Trails End (Station FL0052000087500) showing close-up of sampling site. An extensive riparian forested wetland buffer is present on both sides of the system.

Photographs of Withlacoochee River at Trails End

Habitat, Biological and Water Quality Data

Parameter	Value
Habitat Assessment	118
Hydrologic Score	2
LDI Score	1.34
SCI Score	NA
Total Phosphorus Geometric Mean (mg/L)	0.059
Total Nitrogen Geometric Mean (mg/L)	1.01

The habitat assessment scored in the high "Suboptimal" range. The SCI was not performed due to the morphology of the system in this area (lake-like), which when coupled with low water levels, resulted in the system having no perceptible water velocity. Typical aquatic plants observed at the site included *Taxodium distichum, Hydrocotyle* sp*., Panicum hemitomon, Myriophyllum heterophyllum,* and *Polygonum* sp., indicating healthy conditions.

Qualitative Periphyton Sampling was not performed at this site, however minimal periphyton growth was observed, which would allow for optimal substrate use by benthic invertebrate and fish communities. No problematic filamentous algal growth was found, despite the relatively open, sunny conditions characteristic of the site.

Overall Reference Site Conclusion:

Experienced FDEP scientists conducted a series of observations and measurements (habitat assessment, hydrology and local land use) at Withlacoochee River at Trails End. Based on our analyses, the Department concluded that the site was influenced only by very low levels of anthropogenic stressors and that no adverse algal or aquatic plant issues were present. Thus, not only are the nutrient concentrations reflective of minimally disturbed conditions, they are associated with biota which suggest support of the most sensitive designated use (propagation and maintenance of a healthy, well-balanced population of fish and wildlife).

FDEP's Site Information and Taxa Lists for Stream Benchmark Site Samples

(Appendix 3-D from USEPA. 2009. *Proposed Methods and Approaches for Developing Numeric Nutrient Criteria for Florida's Inland Waters*. United States Environmental Protection Agency, Office of Water, Office of Science and Technology, Health and Ecological Criteria Division, Washington, DC.)

If you have a disability and are unable to read this spreadsheet, please contact Eric Shaw at Eric.Shaw@dep.state.fl.us, and you will be provided with an accessible version.

SCI2004 taxa lists are presented by sample.

SCI2007 taxa lists are presented by replicate.

Both taxa matrices are collapsed using collapsing rules in FDEP SOP LT7000, and metrics and indices are calculated on collapsed taxa lists.

SCI2004 metrics and final scores are calculated and presented by sample.

SCI2007 metrics are calculated and presented by replicate. The final score is calculated and presented as an average for the two replicates.

Three periphyton samples were analyzed by older methodology where the number of diatom **valves** identified on the fixed slide was equal to 2x the number of diatom **frustules** counted in the wet material. For data entry, wet ID and diatom ID were combined. Diatom valve counts from the fixed slide were divided by two (to represent a frustule) and entered with the wet ID's. The only exception is that a valve count of 1 was entered as a frustule count of 1. These three periphyton samples had to be retrieved separately for taxa lists and are presented in *Peri Data Wet & Diatom Combined* .
Metrics for these three periphyton samples are slightly different in that dominants, number of taxa, etc. are based on the sample as a whole and not separately for diatoms vs. soft algae (wet ID).

All other periphyton samples in this file were analyzed by the current method were the number of diatom valves identified on the fixed slide is 500 +/- regardless of the number of diatom frustules counted in the wet ID. Diatom data is entered separately from wet ID data, and metrics are calculated on each data set (i.e. DominantDiatomOnlyPct, DominantWetAlgaeOnlyPct, etc.). Taxa lists are also retrieved and presented separately.

As Calculated / STORET station ->	LEV502GS	LEV502GS	PUT308GS	PUT308GS	3513	3513
Sample date ->	2/21/2007	2/21/2007	2/26/2007	2/26/2007	2/20/2007	2/20/2007
	57322/36904/	57322/36904/	57431/36987/	57431/36987/	57324/36989/	57324/36989/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Ablabesmyia mallochi	-	-	-	-	-	1
Ablabesmyia rhamphe grp.	-	-	-	-	-	-
Acentrella	-	-	-	-	3	7
Acentrella parvula	-	-	-	-	-	-
Acerpenna pygmaea	-	2	1	-	-	-
Acroneuria	-	-	-	-	-	-
Acroneuria abnormis	-	-	-	-	-	-
Acroneuria lycorias	-	-	-	-	-	-
Agnetina annulipes	-	-	-	-	-	-
Allonais inaequalis	-	-	-	-	-	-
Amnicola	-	-	-	-	-	-
Amphipoda	-	-	-	-	-	-
Ancylidae	-	-	-	-	3	-
Ancyronyx variegatus	-	-	-	-	-	-
Anisocentropus pyraloides	-	-	-	-	-	-
Apedilum	-	-	-	-	-	-
Argia	-	-	-	1	-	2
Argia fumipennis	-	-	-	-	-	-
Argia tibialis	1	4	-	-	-	-
Arrenurus	-	-	-	-	-	-
Asioplax	-	-	-	-	-	-
Atherix	-	-	-	-	-	-
Atractides	1	-	1	1	-	-
Atrichopogon	-	-	-	-	-	-
Aulodrilus pigueti	-	-	-	-	-	-
Baetidae	-	-	-	-	-	-
Baetis intercalaris	6	-	-	-	-	-
Baetisca becki	-	-	-	-	-	-
Baetisca rogersi	-	-	-	-	-	-
Beardius	-	-	-	-	-	-
Berosus	-	-	-	-	-	-
Bivalvia	-	-	-	-	-	-
Boyeria vinosa	1	2	-	1	-	-
Brachycentrus chelatus	-	-	-	-	-	-
Brachycentrus numerosus	-	-	-	-	-	-
Branchiobdellidae	-	-	-	-	-	-
Bratislavia unidentata	-	-	-	-	-	-
Brillia	-	-	-	-	-	-
Caecidotea	-	-	-	-	-	-
Caenis	-	-	-	-	-	-
Caenis diminuta	2	-	-	-	-	-
Caenis eglinensis	-	-	-	-	-	-
Caenis hilaris	-	-	-	-	-	-
Callibaetis	-	-	-	-	-	-
Callibaetis floridanus	-	-	-	-	-	-
Calopterygidae	-	-	-	-	-	-
Calopteryx	-	-	-	1	-	-
Cambaridae	-	-	-	-	-	1
Campeloma	-	-	-	-	-	-
Cecidomyiidae	-	-	-	-	-	-

As Calculated / STORET station ->	LEV502GS	LEV502GS	PUT308GS	PUT308GS	3513	3513
Sample date ->	2/21/2007	2/21/2007	2/26/2007	2/26/2007	2/20/2007	2/20/2007
	57322/36904/	57322/36904/	57431/36987/	57431/36987/	57324/36989/	57324/36989/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Celina	-	-	-	-	-	-
Centroptilum triangulifer	-	-	-	-	-	-
Ceraclea	-	-	-	-	-	-
Ceratopogonidae	-	-	-	-	1	2
Cernotina	-	-	-	-	-	-
Chauliodes	-	-	-	-	-	-
Cheumatopsyche	3	4	31	29	-	-
Chimarra	-	-	-	1	-	-
Chironomus	-	-	-	-	-	-
Choroterpes basalis	-	-	-	-	-	-
Chrysomelidae	-	-	-	-	-	-
Cladotanytarsus	-	-	-	-	-	-
Cladotanytarsus cf. daviesi	-	-	-	-	4	4
Cladotanytarsus sp. d epler	-	-	-	-	-	1
Cladotanytarsus sp. f epler	-	-	-	-	-	-
Cladotanytarsus viridiventris	-	-	-	-	-	-
Clathrosperchon	-	-	-	1	-	-
Climacia areolaris	-	-	-	-	-	-
Clinotanypus	-	-	-	-	-	-
Coenagrionidae	-	-	-	-	-	-
Corbicula fluminea	-	1	-	-	6	1
Corydalidae	-	-	-	-	-	-
Corydalus cornutus	-	-	-	-	-	-
Corynoneura	-	-	-	-	-	-
Crangonyx	-	-	-	-	-	-
Cricotopus	-	-	-	-	-	-
Cricotopus bicinctus	-	-	-	-	3	-
Cricotopus or orthocladius	-	-	-	-	1	2
Cryptochironomus	-	-	-	-	-	1
Cryptotendipes	-	-	-	-	-	1
Curculionidae	-	-	-	-	-	-
Cyrnellus fraternus	-	-	-	-	-	-
Dasyhelea	-	-	-	-	-	-
Dero	-	-	-	-	-	-
Dero digitata complex	-	-	-	-	-	-
Dero flabelliger	-	-	-	-	-	-
Dero furcata	-	-	-	-	-	-
Dero pectinata	-	-	-	-	-	-
Desmopachria	-	-	-	-	-	-
Desserobdella phalera	-	-	-	-	-	-
Dicrotendipes	-	-	-	-	-	-
Dicrotendipes modestus	-	-	-	-	-	-
Dicrotendipes neomodestus	-	-	-	-	13	7
Dicrotendipes simpsoni	-	-	-	-	-	-
Dicrotendipes sp. a epler	-	-	-	-	-	-
Dineutus	-	-	-	-	-	-
Diplectrona	-	-	-	-	-	-
Djalmabatista pulcher	-	-	-	-	-	-
Dryopidae	-	-	-	-	-	-
Dubiraphia vittata	-	1	-	-	1	-

As Calculated / STORET station ->	LEV502GS	LEV502GS	PUT308GS	PUT308GS	3513	3513
Sample date ->	2/21/2007	2/21/2007	2/26/2007	2/26/2007	2/20/2007	2/20/2007
	57322/36904/	57322/36904/	57431/36987/	57431/36987/	57324/36989/	57324/36989/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Dytiscidae	-	-	-	-	-	-
Eclipidrilus	-	-	-	-	-	-
Eclipidrilus palustris	-	-	-	-	-	-
Ectopria	-	-	-	-	-	-
Ectopria thoracica	-	-	-	-	-	-
Einfeldia sp. a epler	-	-	-	-	-	-
Elimia	-	-	-	-	-	-
Elmidae	-	-	-	-	-	-
Enallagma	-	-	2	-	-	-
Enallagma coecum	-	-	-	-	-	-
Enchytraeidae	1	-	-	-	-	-
Endotribelos hesperium	-	-	-	-	-	-
Enochrus	-	-	-	-	-	-
Epicordulia princeps regina	-	-	-	-	-	-
Eurylophella doris	-	-	-	-	-	-
Ferrissia	3	-	-	-	-	-
Gastropoda	-	-	-	-	-	-
Geayia	-	-	-	-	-	-
Gerridae	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-
Goeldichironomus	-	-	-	-	-	-
Goeldichironomus cf. natans	-	-	-	-	-	-
Goeldichironomus holoprasinus	-	-	-	-	-	-
Gomphidae	-	-	-	-	-	-
Gomphus	1	1	-	-	-	-
Gonielmis dietrichi	-	-	-	-	-	-
Gyrinidae	-	-	-	-	-	-
Gyrinus	-	-	-	-	-	-
Haemonais waldvogeli	-	-	-	-	-	-
Hagenius brevistylus	-	-	-	-	-	-
Haitia	-	-	1	-	-	-
Hayesomyia senata	-	-	-	-	-	-
Helichus	-	-	-	-	-	-
Helichus lithophilus	-	-	-	-	-	-
Helobdella stagnalis	-	-	-	-	-	3
Helobdella triserialis	-	-	-	-	-	-
Hemerodromia	1	-	-	-	-	-
Heptageniidae	-	-	-	-	-	-
Hetaerina	1	3	-	-	-	-
Hetaerina titia	-	-	-	-	-	-
Hexagenia	-	-	-	-	-	-
Hexatoma	-	-	-	-	-	-
Hirudinea	-	-	-	-	-	-
Hyalella azteca	-	-	-	-	3	6
Hydraena	-	-	-	-	-	-
Hydrobiidae	-	-	-	-	2	-
Hydrodroma	-	-	-	-	-	-
Hydrometra	-	-	-	-	-	-
Hydrophilidae	-	-	-	-	-	-
Hydropsyche	-	-	5	-	6	1

As Calculated / STORET station ->	LEV502GS	LEV502GS	PUT308GS	PUT308GS	3513	3513
Sample date ->	2/21/2007	2/21/2007	2/26/2007	2/26/2007	2/20/2007	2/20/2007
Taxon Name / SampleID/BenthID ->	57322/36904/ Rep 1	57322/36904/ Rep 2	57431/36987/ Rep 1	57431/36987/ Rep 2	57324/36989/ Rep 1	57324/36989/ Rep 2
Hydropsyche incommoda	-	-	-	-	-	-
Hydropsyche mississippiensis	-	-	-	-	-	-
Hydroptila	-	-	-	-	13	8
Hydrovatus	-	-	-	-	-	-
Hygrobates	-	-	1	-	-	-
Ischnura	-	-	-	-	-	-
Isonychia	-	-	-	-	-	-
Kiefferulus	-	-	-	-	-	-
Koenikea	-	-	-	-	-	-
Krendowskia	-	-	-	-	-	-
Labrundinia	-	-	-	-	-	-
Labrundinia becki	-	-	-	-	-	-
Labrundinia johannseni	-	-	-	-	-	-
Labrundinia pilosella	-	1	-	-	-	-
Labrundinia sp. 3 nr. virescens	-	-	-	-	-	-
Laccophilus	-	-	-	-	-	-
Laevapex	-	2	-	-	-	-
Larsia	-	-	-	-	-	-
Larsia decolorata	-	-	-	-	-	-
Lauterborniella agrayloides	-	-	-	-	-	-
Lebertia	-	-	-	-	1	1
Lepidoptera	-	-	-	-	-	-
Lepidostoma	-	-	-	-	-	-
Leptophlebiidae	-	-	-	-	1	-
Leuctra	-	-	-	-	-	-
Libellulidae	-	-	-	-	-	-
Limnesia	-	-	-	-	-	-
Limnodrilus hoffmeisteri	-	-	-	-	-	3
Lioporeus	-	-	-	-	-	-
Lirceus	15	14	-	-	-	-
Lopescladius	-	-	-	-	-	-
Lumbriculus variegatus	-	-	-	-	-	-
Lymnaeidae	-	-	-	-	1	-
Lype diversa	-	-	-	-	-	-
Maccaffertium	-	-	-	-	-	-
Maccaffertium exiguum	8	6	-	-	1	-
Maccaffertium smithae	5	9	5	4	-	-
Macromia	1	-	-	-	-	-
Macromia illinoiensis georgina	-	-	-	-	-	-
Macronychus glabratus	3	2	1	2	-	1
Macrostemum carolina	-	-	-	-	-	-
Mayatrichia ayama	-	-	-	-	2	-
Megistocera	-	-	-	-	-	-
Mesonoterus	-	-	-	-	-	-
Mesovelia	-	-	-	-	-	-
Micrasema	-	-	-	-	-	-
Microcylloepus pusillus	4	9	13	25	-	-
Micromenetus	6	2	-	-	-	-
Micromenetus dilatatus avus	-	-	-	-	-	-
Micropsectra	-	-	-	-	-	-

As Calculated / STORET station ->	LEV502GS	LEV502GS	PUT308GS	PUT308GS	3513	3513
Sample date ->	2/21/2007	2/21/2007	2/26/2007	2/26/2007	2/20/2007	2/20/2007
	57322/36904/	57322/36904/	57431/36987/	57431/36987/	57324/36989/	57324/36989/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Microtendipes	-	-	-	-	-	-
Microtendipes pedellus grp.	-	-	-	-	-	-
Microtendipes rydalensis grp.	-	-	-	-	-	-
Microvelia	-	-	-	-	-	-
Mideopsis	-	-	1	-	-	-
Momonia	-	-	-	-	-	-
Monopelopia	-	-	-	-	-	-
Mooreobdella	-	-	-	-	-	-
Naididae	-	-	-	-	-	-
Nais communis complex	-	-	-	-	-	-
Nais(animal)	-	-	-	-	-	-
Nanocladius	-	-	-	-	1	-
Nectopsyche	-	-	-	-	-	-
Nectopsyche exquisita	-	2	-	-	-	1
Nectopsyche pavida	-	-	-	-	-	-
Neoephemera	-	-	-	-	-	-
Neoperla	-	-	-	-	-	-
Neoplasta	-	-	-	-	-	-
Neoplea	-	-	-	-	-	-
Neoporus	-	-	-	-	-	-
Neotrichia	-	-	2	2	3	1
Neureclipsis	1	-	-	-	-	-
Neureclipsis crepuscularis	-	-	-	-	-	-
Neurocordulia	-	-	-	-	-	-
Neurocordulia alabamensis	-	-	-	1	-	-
Nigronia	-	-	-	-	-	-
Nigronia serricornis	-	-	-	-	-	-
Nilotanypus americanus	-	-	-	-	-	-
Nilotanypus fimbriatus	-	-	-	-	-	-
Nilothauma	-	-	-	-	-	-
Notomicrus nanulus	-	-	-	-	-	-
Nyctiophylax	-	-	-	-	-	-
Oecetis	-	-	-	-	2	-
Oecetis avara	-	-	-	-	-	-
Oecetis cinerascens	-	2	-	-	-	-
Oecetis georgia	-	-	-	3	-	-
Oecetis sphyra/morsei	-	-	-	-	-	-
Ora/scirtes	-	-	-	-	-	-
Oribatida	-	-	-	-	-	-
Ormosia	-	-	-	-	-	-
Orthocladius annectens	-	-	1	-	-	-
Orthotrichia	-	-	-	-	-	-
Oxus	-	-	-	-	-	-
Oxyethira	-	-	-	-	-	1
Pachydiplax longipennis	-	-	-	-	-	-
Palaemonetes	-	-	-	-	-	1
Palpomyia/bezzia grp.	-	-	-	-	-	-
Parachaetocladius abnobaeus	-	-	-	-	-	-
Parachironomus	-	-	-	-	-	-
Parachironomus chaetoalus complex	-	-	-	-	-	-

As Calculated / STORET station ->	LEV502GS	LEV502GS	PUT308GS	PUT308GS	3513	3513
Sample date ->	2/21/2007	2/21/2007	2/26/2007	2/26/2007	2/20/2007	2/20/2007
	57322/36904/	57322/36904/	57431/36987/	57431/36987/	57324/36989/	57324/36989/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Parachironomus supparilis	-	-	-	-	-	-
Paracladopelma	-	-	-	-	-	-
Paracymus	-	-	-	-	-	-
Parakiefferiella sp. b epler	-	-	-	-	-	-
Parakiefferiella sp. f epler	-	-	-	-	-	2
Paralauterborniella nigrohalterale	-	-	-	-	-	-
Paraleptophlebia volitans	-	-	3	6	-	-
Paramerina	-	-	-	-	-	-
Parametriocnemus	-	-	-	-	-	-
Paratanytarsus	-	-	-	-	-	-
Paratanytarsus dissimilis	-	-	-	-	-	-
Paratanytarsus quadratus	-	-	-	-	-	-
Paratendipes subaequalis	-	-	-	-	-	-
Pelonomus obscurus	-	-	-	-	-	-
Peltodytes	-	-	-	-	-	-
Peltodytes dietrichi	-	-	-	-	-	-
Pentaneura inconspicua	-	-	1	-	1	2
Perlesta placida complex	-	-	-	-	-	-
Perlinella drymo	-	-	-	-	-	-
Phaenopsectra flavipes	-	-	-	-	-	-
Phylocentropus	-	-	-	-	-	-
Physa	-	-	-	-	-	-
Physidae	-	-	-	-	-	-
Pilaria	-	-	-	-	-	-
Placobdella	-	-	-	-	-	-
Planorbella	-	-	-	-	-	-
Planorbidae	-	-	-	-	1	-
Platyhelminthes	2	1	-	-	-	-
Plauditus	-	-	-	-	-	-
Plauditus bimaculatus	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-
Polycentropodidae	-	-	-	-	-	-
Polycentropus	-	2	-	-	-	-
Polypedilum aviceps	-	-	-	-	-	-
Polypedilum fallax	-	-	-	-	-	-
Polypedilum flavum	18	9	27	31	10	9
Polypedilum halterale grp.	-	-	-	-	-	1
Polypedilum illinoense grp.	-	-	1	-	-	-
Polypedilum scalaenum grp.	1	-	-	-	11	19
Polypedilum sp. a epler	-	-	-	-	-	-
Polypedilum trigonus	-	-	-	-	-	-
Polypedilum tritum	-	-	-	-	-	-
Potthastia	-	-	-	-	-	-
Potthastia longimana	-	-	-	-	-	-
Pristina	-	-	-	-	-	-
Procambarus	-	-	-	-	-	-
Procladius	-	-	-	-	-	-
Procloeon	-	-	-	-	-	-
Progomphus	-	-	-	-	-	-
Progomphus obscurus	-	-	-	-	-	-

As Calculated / STORET station ->	LEV502GS	LEV502GS	PUT308GS	PUT308GS	3513	3513
Sample date ->	2/21/2007	2/21/2007	2/26/2007	2/26/2007	2/20/2007	2/20/2007
Taxon Name / SampleID/BenthID ->	57322/36904/ Rep 1	57322/36904/ Rep 2	57431/36987/ Rep 1	57431/36987/ Rep 2	57324/36989/ Rep 1	57324/36989/ Rep 2
Promoresia tardella	-	-	-	-	-	-
Prostoma	-	-	-	-	-	-
Psectrocladius	-	-	-	-	-	-
Pseudochironomus	-	-	-	-	-	-
Pseudocloeon	-	1	-	-	1	-
Pseudocloeon ephippiatum	-	-	-	-	-	-
Pseudocloeon frondale	-	-	3	3	-	-
Pseudocloeon propinquum	-	-	-	-	-	-
Pseudolimnophila	-	-	-	-	-	-
Psychodidae	-	-	-	-	-	-
Pteronarcys dorsata	-	-	-	-	-	-
Pyralidae	-	-	-	-	-	-
Rheocricotopus robacki	-	2	7	6	-	1
Rheotanytarsus	-	-	-	-	-	-
Rheotanytarsus exiguus grp.	-	-	2	1	-	-
Rheotanytarsus pellucidus	-	1	3	5	-	-
Rhyncholimnochares	-	-	-	-	-	-
Robackia claviger	-	-	-	-	-	-
Serratella deficiens	-	-	-	-	-	-
Sialis	-	-	-	-	-	-
Simulium	68	66	-	-	-	1
Simulium jonesi	-	-	24	18	-	-
Sisyra	-	-	-	-	-	-
Slavina appendiculata	-	-	-	-	-	-
Sperchon	-	-	-	-	-	-
Sperchonopsis	-	-	-	-	-	-
Sperchopsis	-	-	-	-	-	-
Sperchopsis tessellatus	-	-	-	-	-	-
Sphaeriidae(mollusca)	2	7	-	-	-	-
Spirosperma	-	-	-	-	-	-
Staphylinidae	-	-	-	-	-	-
Stelechomyia perpulchra	-	-	-	-	-	-
Stempellina	-	-	-	-	-	-
Stempellinella	-	-	-	-	-	-
Stempellinella fimbriata	-	-	-	-	-	-
Stempellinella leptocelloides	-	-	-	-	-	-
Stenacron	-	1	-	-	-	-
Stenacron interpunctatum	-	-	-	-	-	-
Stenelmis	-	-	2	3	8	4
Stenochironomus	-	1	1	-	-	-
Stenus	-	-	-	-	-	-
Stephensoniana trivandrana	-	-	-	-	-	-
Stratiomyidae	-	-	-	-	-	-
Sympetrum	-	-	-	-	-	-
Tabanidae	-	-	-	-	-	-
Taeniopteryx	-	-	-	-	-	-
Tanytarsus	-	-	-	-	-	-
Tanytarsus sp. a epler	-	-	-	-	1	5
Tanytarsus sp. c epler	-	-	-	-	5	7
Tanytarsus sp. d epler	-	-	3	-	-	-

As Calculated / STORET station ->	LEV502GS	LEV502GS	PUT308GS	PUT308GS	3513	3513
Sample date ->	2/21/2007	2/21/2007	2/26/2007	2/26/2007	2/20/2007	2/20/2007
Taxon Name / SampleID/BenthID ->	57322/36904/ Rep 1	57322/36904/ Rep 2	57431/36987/ Rep 1	57431/36987/ Rep 2	57324/36989/ Rep 1	57324/36989/ Rep 2
Tanytarsus sp. e epler	-	-	-	-	-	-
Tanytarsus sp. f epler	-	-	-	-	-	-
Tanytarsus sp. l epler	-	-	1	-	-	-
Tanytarsus sp. m epler	-	-	2	2	-	-
Tanytarsus sp. n epler	-	-	-	-	-	-
Tanytarsus sp. o epler	-	-	-	-	-	-
Tanytarsus sp. p epler	-	-	-	-	2	1
Tanytarsus sp. s epler	-	-	-	-	-	-
Tanytarsus sp. t epler	-	-	-	-	1	-
Tanytarsus sp. y epler	-	-	-	-	3	1
Thienemanniella	-	-	-	-	-	-
Thienemanniella lobapodema	-	-	-	-	-	-
Thienemanniella similis	-	-	-	-	-	-
Thienemanniella xena	-	-	-	1	1	-
Thienemannimyia grp.	-	-	1	-	-	-
Tipula	-	-	-	-	-	-
Tipula caloptera	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-
Torrenticola	-	-	-	-	-	-
Triaenodes	-	1	-	1	-	-
Triaenodes ignitus	-	-	-	-	-	-
Triaenodes perna/helo	-	-	-	-	-	-
Tribelos	-	-	-	-	-	-
Tribelos fuscicornis	-	-	-	-	-	-
Tribelos jucundum	-	-	-	-	-	-
Tricorythodes albilineatus	-	-	-	-	31	42
Tubificidae	-	-	-	-	1	-
Tvetenia	-	-	-	-	-	-
Tvetenia vitracies	-	-	-	-	-	-
Vertigo	-	-	-	-	-	-
Viviparus georgianus	-	-	-	-	-	-
Xenochironomus xenolabis	-	-	-	1	-	-
Xestochironomus	2	-	-	-	-	-
Xylotopus par	-	-	-	-	-	-
Zavreliella marmorata	-	-	-	-	-	-
Zavrelimyia sp. a epler	-	-	-	-	-	-

As Calculated / STORET station ->	3545	3545	21202	21202	3535	3535
Sample date ->	3/26/2007	3/26/2007	3/1/2007	3/1/2007	10/10/2006	10/10/2006
Taxon Name / SampleID/BenthID ->	59773/38075/ Rep 1	59773/38075/ Rep 2	60301/38292/ Rep 1	60301/38292/ Rep 2	60308/38307/ Rep 1	60308/38307/ Rep 2
Ablabesmyia mallochi	1	1	9	4	2	1
Ablabesmyia rhamphe grp.	2	1	1	-	-	-
Acentrella	-	-	-	-	-	-
Acentrella parvula	-	-	-	-	-	-
Acerpenna pygmaea	-	-	9	10	-	-
Acroneuria	-	-	-	-	-	-
Acroneuria abnormis	-	-	-	-	-	-
Acroneuria lycorias	-	-	-	-	-	-
Agnetina annulipes	-	-	-	-	-	-
Allonais inaequalis	-	-	-	-	-	-
Amnicola	-	-	-	-	-	-
Amphipoda	-	-	-	-	-	-
Ancylidae	-	-	-	1	-	-
Ancyronyx variegatus	-	-	-	3	-	-
Anisocentropus pyraloides	-	-	-	-	-	-
Apedilum	-	-	-	-	-	-
Argia	2	-	-	-	-	-
Argia fumipennis	-	-	1	1	-	-
Argia tibialis	-	-	-	-	-	-
Arrenurus	-	-	-	-	-	-
Asioplax	-	-	-	-	-	-
Atherix	-	-	-	-	-	-
Atractides	-	-	-	-	-	-
Atrichopogon	-	-	2	-	-	1
Aulodrilus pigueti	-	-	-	-	-	-
Baetidae	-	-	-	-	-	-
Baetis intercalaris	-	-	-	-	-	-
Baetisca becki	1	1	-	-	-	-
Baetisca rogersi	-	-	-	-	-	-
Beardius	-	-	-	-	-	-
Berosus	-	-	-	-	-	-
Bivalvia	-	-	-	-	-	-
Boyeria vinosa	-	-	-	-	-	-
Brachycentrus chelatus	-	-	-	-	-	-
Brachycentrus numerosus	-	-	-	-	-	-
Branchiobdellidae	-	-	-	-	-	-
Bratislavia unidentata	-	-	-	-	-	-
Brillia	-	-	-	-	-	-
Caecidotea	-	1	3	7	-	-
Caenis	-	-	1	-	4	-
Caenis diminuta	-	-	-	-	-	-
Caenis eglinensis	-	-	-	-	-	-
Caenis hilaris	-	-	-	-	-	-
Callibaetis	-	-	-	-	-	-
Callibaetis floridanus	-	-	-	-	-	-
Calopterygidae	-	-	-	-	-	-
Calopteryx	-	-	-	-	-	-
Cambaridae	-	-	-	-	-	-
Campeloma	-	-	-	2	-	-
Cecidomyiidae	-	-	-	-	-	-

As Calculated / STORET station ->	3545	3545	21202	21202	3535	3535
Sample date ->	3/26/2007	3/26/2007	3/1/2007	3/1/2007	10/10/2006	10/10/2006
Taxon Name / SampleID/BenthID ->	59773/38075/ Rep 1	59773/38075/ Rep 2	60301/38292/ Rep 1	60301/38292/ Rep 2	60308/38307/ Rep 1	60308/38307/ Rep 2
Celina	-	-	-	-	-	-
Centroptilum triangulifer	-	-	-	-	-	-
Ceraclea	-	-	-	-	-	-
Ceratopogonidae	11	11	-	-	-	-
Cernotina	-	-	-	-	-	-
Chauliodes	-	-	-	-	-	-
Cheumatopsyche	1	-	9	5	-	-
Chimarra	-	1	-	-	-	-
Chironomus	-	-	-	-	-	-
Choroterpes basalis	-	-	-	-	-	-
Chrysomelidae	-	-	-	-	-	-
Cladotanytarsus	-	-	-	-	1	1
Cladotanytarsus cf. daviesi	-	-	-	-	-	-
Cladotanytarsus sp. d epler	-	-	-	-	-	-
Cladotanytarsus sp. f epler	-	-	-	-	-	-
Cladotanytarsus viridiventris	-	-	-	-	-	-
Clathrosperchon	-	-	-	-	-	-
Climacia areolaris	-	-	-	-	-	-
Clinotanypus	-	-	-	-	-	-
Coenagrionidae	-	-	-	-	-	1
Corbicula fluminea	-	-	2	3	-	-
Corydalidae	-	-	-	-	-	-
Corydalus cornutus	-	-	-	-	-	-
Corynoneura	-	-	-	-	-	-
Crangonyx	-	-	-	-	-	-
Cricotopus	1	-	-	-	2	1
Cricotopus bicinctus	-	-	1	1	-	-
Cricotopus or orthocladius	-	-	-	-	-	-
Cryptochironomus	-	-	-	-	-	-
Cryptotendipes	-	-	-	-	-	-
Curculionidae	-	-	-	-	-	-
Cyrnellus fraternus	-	-	-	-	2	1
Dasyhelea	-	-	-	-	-	-
Dero	-	-	-	-	-	-
Dero digitata complex	-	-	-	-	-	-
Dero flabelliger	-	-	-	-	-	-
Dero furcata	-	-	-	-	-	-
Dero pectinata	-	-	-	-	-	-
Desmopachria	-	-	-	-	-	-
Desserobdella phalera	-	-	-	-	-	-
Dicrotendipes	-	-	-	-	-	-
Dicrotendipes modestus	-	-	-	-	-	-
Dicrotendipes neomodestus	-	-	-	-	33	25
Dicrotendipes simpsoni	-	-	-	-	-	-
Dicrotendipes sp. a epler	-	-	-	-	-	-
Dineutus	-	-	-	-	-	-
Diplectrona	-	-	-	-	-	-
Djalmabatista pulcher	-	-	1	-	-	-
Dryopidae	-	-	-	-	-	-
Dubiraphia vittata	-	1	-	-	-	-

As Calculated / STORET station ->	3545	3545	21202	21202	3535	3535
Sample date ->	3/26/2007	3/26/2007	3/1/2007	3/1/2007	10/10/2006	10/10/2006
Taxon Name / SampleID/BenthID ->	59773/38075/ Rep 1	59773/38075/ Rep 2	60301/38292/ Rep 1	60301/38292/ Rep 2	60308/38307/ Rep 1	60308/38307/ Rep 2
Dytiscidae	-	-	-	-	-	-
Eclipidrilus	-	-	-	-	-	-
Eclipidrilus palustris	-	-	-	-	-	-
Ectopria	-	-	-	-	-	-
Ectopria thoracica	-	-	-	-	-	-
Einfeldia sp. a epler	-	-	-	-	-	-
Elimia	-	-	-	-	-	-
Elmidae	-	-	-	-	-	-
Enallagma	-	-	1	-	-	-
Enallagma coecum	-	-	-	-	-	-
Enchytraeidae	-	-	-	-	-	-
Endotribelos hesperium	-	-	-	-	-	-
Enochrus	-	-	-	-	-	-
Epicordulia princeps regina	-	-	-	-	-	-
Eurylophella doris	1	3	1	1	-	-
Ferrissia	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-
Geayia	-	-	-	-	-	-
Gerridae	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-
Goeldichironomus	-	-	-	-	-	-
Goeldichironomus cf. natans	-	-	-	-	-	-
Goeldichironomus holoprasinus	-	-	-	-	-	-
Gomphidae	-	-	-	-	-	-
Gomphus	-	-	-	-	-	-
Gonielmis dietrichi	5	4	-	-	-	-
Gyrinidae	-	-	-	-	-	-
Gyrinus	-	-	-	-	-	-
Haemonais waldvogeli	-	-	-	-	-	-
Hagenius brevistylus	-	-	-	-	-	-
Haitia	-	-	3	2	-	-
Hayesomyia senata	-	-	-	-	-	-
Helichus	-	-	-	-	-	-
Helichus lithophilus	-	-	-	-	-	-
Helobdella stagnalis	-	-	-	-	-	-
Helobdella triserialis	-	-	-	-	-	-
Hemerodromia	1	-	-	-	-	4
Heptageniidae	-	1	-	-	-	-
Hetaerina	-	-	-	-	-	-
Hetaerina titia	-	-	-	-	-	-
Hexagenia	-	-	-	-	-	-
Hexatoma	-	-	-	-	-	-
Hirudinea	-	-	-	-	-	-
Hyalella azteca	-	-	7	3	-	-
Hydraena	-	-	-	-	-	-
Hydrobiidae	-	-	2	-	-	-
Hydrodroma	-	-	-	-	-	-
Hydrometra	-	-	-	-	-	-
Hydrophilidae	-	-	-	-	-	-
Hydropsyche	4	3	-	-	3	2

As Calculated / STORET station ->	3545	3545	21202	21202	3535	3535
Sample date ->	3/26/2007	3/26/2007	3/1/2007	3/1/2007	10/10/2006	10/10/2006
Taxon Name / SampleID/BenthID ->	59773/38075/ Rep 1	59773/38075/ Rep 2	60301/38292/ Rep 1	60301/38292/ Rep 2	60308/38307/ Rep 1	60308/38307/ Rep 2
Hydropsyche incommoda	-	-	-	-	-	-
Hydropsyche mississippiensis	-	-	-	-	-	-
Hydroptila	26	30	-	-	5	5
Hydrovatus	-	-	-	-	-	-
Hygrobates	-	-	2	-	-	-
Ischnura	-	-	-	-	-	-
Isonychia	-	-	-	-	-	-
Kiefferulus	-	-	-	-	-	-
Koenikea	-	-	-	-	-	-
Krendowskia	-	-	-	-	-	-
Labrundinia	-	1	-	-	-	-
Labrundinia becki	-	-	3	-	-	-
Labrundinia johannseni	-	-	-	-	-	-
Labrundinia pilosella	-	-	-	-	-	-
Labrundinia sp. 3 nr. virescens	-	-	-	-	-	-
Laccophilus	-	-	-	-	-	-
Laevapex	-	-	-	-	-	-
Larsia	-	-	-	-	-	-
Larsia decolorata	-	-	-	-	-	-
Lauterborniella agrayloides	-	-	-	-	-	-
Lebertia	1	-	-	-	-	-
Lepidoptera	-	-	-	-	-	-
Lepidostoma	-	-	-	-	-	-
Leptophlebiidae	11	-	1	-	-	-
Leuctra	-	-	-	-	-	-
Libellulidae	-	-	-	-	-	-
Limnesia	-	-	-	-	-	-
Limnodrilus hoffmeisteri	-	-	-	-	-	-
Lioporeus	-	-	-	-	-	-
Lirceus	-	-	-	-	-	-
Lopescladius	-	-	-	-	-	-
Lumbriculus variegatus	-	-	-	-	-	-
Lymnaeidae	-	-	-	-	-	-
Lype diversa	-	-	-	-	-	-
Maccaffertium	-	-	3	-	1	-
Maccaffertium exiguum	-	-	-	-	-	2
Maccaffertium smithae	-	-	-	-	-	-
Macromia	-	-	-	-	-	-
Macromia illinoiensis georgina	-	-	-	-	-	-
Macronychus glabratus	-	-	1	-	-	-
Macrostemum carolina	-	-	-	-	2	3
Mayatrichia ayama	-	-	-	-	-	-
Megistocera	-	-	-	1	-	-
Mesonoterus	-	-	-	-	-	-
Mesovelia	-	-	-	-	-	-
Micrasema	1	1	-	-	-	-
Microcylloepus pusillus	-	-	5	4	-	-
Micromenetus	-	-	4	14	-	-
Micromenetus dilatatus avus	-	-	-	-	-	-
Micropsectra	-	-	-	-	-	-

As Calculated / STORET station ->	3545	3545	21202	21202	3535	3535
Sample date ->	3/26/2007	3/26/2007	3/1/2007	3/1/2007	10/10/2006	10/10/2006
Taxon Name / SampleID/BenthID ->	59773/38075/ Rep 1	59773/38075/ Rep 2	60301/38292/ Rep 1	60301/38292/ Rep 2	60308/38307/ Rep 1	60308/38307/ Rep 2
Microtendipes	-	-	-	-	-	-
Microtendipes pedellus grp.	-	-	-	-	-	-
Microtendipes rydalensis grp.	1	1	-	-	-	-
Microvelia	-	-	-	-	-	-
Mideopsis	-	-	-	-	-	-
Momonia	-	-	-	-	-	-
Monopelopia	-	-	-	-	-	-
Mooreobdella	-	-	-	-	-	-
Naididae	-	-	-	-	-	-
Nais communis complex	-	-	-	-	-	-
Nais(animal)	-	-	-	-	-	-
Nanocladius	-	-	-	-	1	-
Nectopsyche	-	-	-	-	-	-
Nectopsyche exquisita	-	1	-	-	-	-
Nectopsyche pavida	-	-	-	-	-	-
Neoephemera	-	-	-	-	-	-
Neoperla	-	-	-	-	-	-
Neoplasta	-	-	-	-	-	-
Neoplea	-	-	-	-	-	-
Neoporus	-	-	-	1	-	-
Neotrichia	-	-	-	-	-	-
Neureclipsis	-	-	-	-	-	-
Neureclipsis crepuscularis	-	-	-	-	-	-
Neurocordulia	-	-	-	-	-	-
Neurocordulia alabamensis	-	-	-	-	-	-
Nigronia	-	-	-	-	-	-
Nigronia serricornis	-	-	-	-	-	-
Nilotanypus americanus	-	-	-	-	-	-
Nilotanypus fimbriatus	-	-	-	-	-	-
Nilothauma	-	-	-	-	-	3
Notomicrus nanulus	-	-	-	-	-	-
Nyctiophylax	-	-	-	-	-	-
Oecetis	-	-	-	-	1	-
Oecetis avara	-	-	-	-	-	-
Oecetis cinerascens	-	-	-	-	-	-
Oecetis georgia	-	-	1	-	-	-
Oecetis sphyra/morsei	-	-	-	-	-	-
Ora/scirtes	1	-	-	-	-	-
Oribatida	-	-	-	-	-	-
Ormosia	-	-	-	-	-	-
Orthocladius annectens	-	-	-	-	1	1
Orthotrichia	-	-	-	-	-	-
Oxus	-	-	-	-	-	-
Oxyethira	-	-	2	-	-	-
Pachydiplax longipennis	-	-	-	-	-	-
Palaemonetes	-	-	-	-	-	-
Palpomyia/bezzia grp.	-	-	-	-	-	-
Parachaetocladius abnobaeus	-	-	-	-	-	-
Parachironomus	-	-	-	-	-	-
Parachironomus chaetoalus complex	-	-	-	-	-	-

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Sample date ->	3/26/2007	3/26/2007	3/1/2007	3/1/2007	10/10/2006	10/10/2006
Taxon Name / SampleID/BenthID ->	59773/38075/ Rep 1	59773/38075/ Rep 2	60301/38292/ Rep 1	60301/38292/ Rep 2	60308/38307/ Rep 1	60308/38307/ Rep 2
Parachironomus supparilis	-	-	-	-	-	-
Paracladopelma	1	-	-	-	-	-
Paracymus	-	-	-	-	-	-
Parakiefferiella sp. b epler	-	-	-	-	-	-
Parakiefferiella sp. f epler	-	-	-	-	-	-
Paralauterborniella nigrohalterale	-	-	-	-	-	-
Paraleptophlebia volitans	-	-	-	1	-	-
Paramerina	-	-	-	-	-	-
Parametriocnemus	1	1	-	-	-	-
Paratanytarsus	-	-	-	-	-	-
Paratanytarsus dissimilis	-	-	-	-	-	-
Paratanytarsus quadratus	-	-	-	-	-	-
Paratendipes subaequalis	-	-	-	-	-	-
Pelonomus obscurus	-	-	-	-	-	-
Peltodytes	-	-	-	-	-	-
Peltodytes dietrichi	-	-	-	-	-	-
Pentaneura inconspicua	-	-	-	-	-	-
Perlesta placida complex	-	2	-	-	-	-
Perlinella drymo	-	-	-	-	-	-
Phaenopsectra flavipes	-	-	1	-	-	-
Phylocentropus	-	-	1	-	-	-
Physa	-	-	-	-	-	-
Physidae	-	-	-	-	-	-
Pilaria	-	-	-	-	-	-
Placobdella	-	-	-	1	-	-
Planorbella	-	-	-	-	-	-
Planorbidae	-	-	-	-	-	-
Platyhelminthes	-	-	1	2	-	-
Plauditus	-	-	-	-	-	-
Plauditus bimaculatus	-	-	-	-	-	-
Plecoptera	1	-	-	-	-	-
Polycentropodidae	-	-	-	-	-	-
Polycentropus	-	-	-	1	-	-
Polypedilum aviceps	-	-	-	-	-	-
Polypedilum fallax	-	-	-	4	-	-
Polypedilum flavum	-	-	21	10	7	1
Polypedilum halterale grp.	-	-	-	-	-	-
Polypedilum illinoense grp.	-	-	10	14	-	-
Polypedilum scalaenum grp.	4	-	2	3	-	-
Polypedilum sp. a epler	-	-	-	-	-	-
Polypedilum trigonus	-	-	-	-	-	-
Polypedilum tritum	-	-	-	-	-	-
Potthastia	-	-	-	-	-	-
Potthastia longimana	-	-	-	-	-	-
Pristina	-	-	1	2	-	-
Procambarus	-	-	-	-	-	-
Procladius	-	-	1	-	-	-
Procloeon	-	-	-	-	-	-
Progomphus	-	-	-	-	-	-
Progomphus obscurus	-	-	-	-	-	-

As Calculated / STORET station ->	3545	3545	21202	21202	3535	3535
Sample date ->	3/26/2007	3/26/2007	3/1/2007	3/1/2007	10/10/2006	10/10/2006
Taxon Name / SampleID/BenthID ->	59773/38075/ Rep 1	59773/38075/ Rep 2	60301/38292/ Rep 1	60301/38292/ Rep 2	60308/38307/ Rep 1	60308/38307/ Rep 2
Promoresia tardella	-	-	-	-	-	-
Prostoma	-	-	-	-	-	-
Psectrocladius	-	-	-	-	6	9
Pseudochironomus	30	37	-	-	-	-
Pseudocloeon	3	-	3	2	3	1
Pseudocloeon ephippiatum	-	-	-	-	-	-
Pseudocloeon frondale	-	-	-	-	-	-
Pseudocloeon propinquum	-	-	-	-	-	-
Pseudolimnophila	-	-	-	-	-	-
Psychodidae	-	-	-	-	-	-
Pteronarcys dorsata	-	-	-	-	-	-
Pyralidae	-	-	-	-	-	-
Rheocricotopus robacki	-	1	1	-	-	-
Rheotanytarsus	-	-	-	-	-	-
Rheotanytarsus exiguus grp.	1	-	2	7	-	-
Rheotanytarsus pellucidus	-	-	-	-	-	-
Rhyncholimnochares	-	-	-	-	-	-
Robackia claviger	-	-	-	-	-	-
Serratella deficiens	-	-	-	-	-	-
Sialis	-	-	-	-	-	-
Simulium	-	-	-	3	-	-
Simulium jonesi	-	-	-	-	-	-
Sisyra	-	-	-	-	-	-
Slavina appendiculata	-	-	-	-	-	-
Sperchon	-	-	-	-	-	-
Sperchonopsis	4	2	-	-	-	-
Sperchopsis	-	-	-	-	-	-
Sperchopsis tessellatus	1	-	-	-	-	-
Sphaeriidae(mollusca)	-	-	1	-	-	-
Spirosperma	-	-	-	-	-	-
Staphylinidae	-	-	-	-	-	-
Stelechomyia perpulchra	-	-	-	-	-	-
Stempellina	-	-	-	-	-	-
Stempellinella	-	-	-	-	-	-
Stempellinella fimbriata	-	-	1	-	-	-
Stempellinella leptocelloides	-	-	-	-	-	-
Stenacron	-	-	-	-	-	-
Stenacron interpunctatum	-	-	-	-	-	-
Stenelmis	10	10	5	2	6	-
Stenochironomus	-	-	-	-	-	-
Stenus	-	-	-	-	-	-
Stephensoniana trivandrana	-	-	-	-	-	-
Stratiomyidae	-	-	-	-	-	-
Sympetrum	-	-	-	-	-	-
Tabanidae	-	-	-	-	-	-
Taeniopteryx	-	-	-	-	-	-
Tanytarsus	-	-	-	-	-	-
Tanytarsus sp. a epler	-	-	-	7	-	-
Tanytarsus sp. c epler	-	-	1	1	-	-
Tanytarsus sp. d epler	4	2	-	-	9	18

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Sample date ->	3/26/2007	3/26/2007	3/1/2007	3/1/2007	10/10/2006	10/10/2006
Taxon Name / SampleID/BenthID ->	59773/38075/ Rep 1	59773/38075/ Rep 2	60301/38292/ Rep 1	60301/38292/ Rep 2	60308/38307/ Rep 1	60308/38307/ Rep 2
Tanytarsus sp. e epler	-	-	-	-	-	-
Tanytarsus sp. f epler	-	-	-	-	-	-
Tanytarsus sp. l epler	3	4	2	-	-	-
Tanytarsus sp. m epler	-	-	15	9	-	-
Tanytarsus sp. n epler	-	-	-	-	-	-
Tanytarsus sp. o epler	-	-	-	-	-	-
Tanytarsus sp. p epler	-	-	1	1	-	-
Tanytarsus sp. s epler	-	-	-	-	-	-
Tanytarsus sp. t epler	-	-	-	1	-	-
Tanytarsus sp. y epler	-	-	-	-	-	-
Thienemanniella	-	-	1	-	-	-
Thienemanniella lobapodema	-	-	-	-	-	-
Thienemanniella similis	-	-	-	-	-	-
Thienemanniella xena	-	-	-	-	-	-
Thienemannimyia grp.	12	17	1	5	17	7
Tipula	-	-	-	-	-	-
Tipula caloptera	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-
Torrenticola	-	-	-	-	-	-
Triaenodes	-	-	-	-	-	-
Triaenodes ignitus	-	-	-	-	-	-
Triaenodes perna/helo	-	-	-	-	-	-
Tribelos	-	-	-	-	-	-
Tribelos fuscicornis	-	-	-	-	-	-
Tribelos jucundum	-	-	-	-	-	-
Tricorythodes albilineatus	-	-	-	-	-	-
Tubificidae	2	1	-	-	-	-
Tvetenia	-	-	-	-	-	-
Tvetenia vitracies	9	6	-	-	39	54
Vertigo	-	-	-	2	-	-
Viviparus georgianus	-	-	-	-	-	-
Xenochironomus xenolabis	1	-	-	1	-	-
Xestochironomus	-	-	-	-	-	-
Xylotopus par	-	-	-	-	-	-
Zavreliella marmorata	-	-	-	-	-	-
Zavrelimyia sp. a epler	-	-	-	1	-	-

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Ablabesmyia mallochi	-	-	2	-	-	-
Ablabesmyia rhamphe grp.	-	-	1	-	-	1
Acentrella	-	-	-	-	-	-
Acentrella parvula	-	-	-	-	-	-
Acerpenna pygmaea	-	-	-	2	-	-
Acroneuria	-	-	-	-	-	-
Acroneuria abnormis	-	-	-	-	-	-
Acroneuria lycorias	-	-	-	-	-	-
Agnetina annulipes	-	-	-	-	-	-
Allonais inaequalis	-	-	-	-	-	-
Amnicola	-	-	-	-	-	-
Amphipoda	-	-	-	-	-	-
Ancylidae	1	-	-	1	4	2
Ancyronyx variegatus	-	1	-	-	-	-
Anisocentropus pyraloides	-	-	-	-	-	-
Apedilum	-	-	-	-	-	-
Argia	-	-	-	3	-	-
Argia fumipennis	-	-	-	-	-	-
Argia tibialis	-	-	-	-	-	-
Arrenurus	-	-	-	-	-	-
Asioplax	-	-	-	-	-	-
Atherix	-	-	-	-	-	-
Atractides	-	-	1	-	1	-
Atrichopogon	-	-	-	-	-	-
Aulodrilus pigueti	-	-	-	-	-	-
Baetidae	2	-	-	-	-	-
Baetis intercalaris	-	-	1	2	-	-
Baetisca becki	-	-	-	-	-	-
Baetisca rogersi	-	-	-	-	-	-
Beardius	-	-	-	-	-	-
Berosus	-	-	-	-	-	-
Bivalvia	-	-	-	-	-	-
Boyeria vinosa	1	-	-	-	-	-
Brachycentrus chelatus	-	-	-	-	-	-
Brachycentrus numerosus	-	-	-	-	-	-
Branchiobdellidae	-	-	-	-	-	-
Bratislavia unidentata	-	-	-	-	-	-
Brillia	-	-	-	-	-	-
Caecidotea	-	-	1	4	-	-
Caenis	8	11	-	-	-	-
Caenis diminuta	-	-	-	-	-	-
Caenis eglinensis	-	-	-	-	14	26
Caenis hilaris	-	-	-	1	-	-
Callibaetis	-	-	-	-	-	-
Callibaetis floridanus	-	-	-	-	-	-
Calopterygidae	-	-	-	-	-	-
Calopteryx	-	-	-	-	-	-
Cambaridae	-	-	-	-	-	-
Campeloma	-	-	-	-	-	-
Cecidomyiidae	-	-	-	-	-	-

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Celina	-	-	-	-	-	-
Centroptilum triangulifer	-	-	-	-	-	-
Ceraclea	-	-	-	-	-	-
Ceratopogonidae	-	-	-	1	2	2
Cernotina	-	-	-	-	-	-
Chauliodes	-	-	-	-	-	-
Cheumatopsyche	-	-	12	10	-	-
Chimarra	-	-	-	-	1	1
Chironomus	-	-	-	-	-	-
Choroterpes basalis	-	-	-	-	-	-
Chrysomelidae	-	-	-	-	-	-
Cladotanytarsus	-	-	-	-	-	-
Cladotanytarsus cf. daviesi	-	-	-	-	2	2
Cladotanytarsus sp. d epler	-	-	-	-	-	-
Cladotanytarsus sp. f epler	-	-	-	-	5	3
Cladotanytarsus viridiventris	-	-	-	-	16	10
Clathrosperchon	-	-	-	-	-	-
Climacia areolaris	-	-	-	-	-	-
Clinotanypus	-	-	-	-	-	-
Coenagrionidae	-	-	-	-	-	-
Corbicula fluminea	1	1	7	5	1	1
Corydalidae	-	-	-	-	-	-
Corydalus cornutus	-	-	-	-	1	-
Corynoneura	-	-	-	1	-	-
Crangonyx	-	-	-	-	-	-
Cricotopus	-	-	-	-	-	-
Cricotopus bicinctus	-	-	-	3	-	-
Cricotopus or orthocladius	1	2	-	-	10	17
Cryptochironomus	-	-	1	-	2	-
Cryptotendipes	-	-	1	-	-	-
Curculionidae	-	-	-	-	-	-
Cyrnellus fraternus	-	-	-	-	-	-
Dasyhelea	-	-	-	-	-	-
Dero	-	-	-	2	-	-
Dero digitata complex	-	-	-	-	-	-
Dero flabelliger	-	-	-	-	-	-
Dero furcata	-	-	-	-	-	-
Dero pectinata	-	-	-	-	-	-
Desmopachria	-	-	-	-	-	-
Desserobdella phalera	-	-	-	-	-	-
Dicrotendipes	-	-	-	-	-	-
Dicrotendipes modestus	-	-	-	-	-	-
Dicrotendipes neomodestus	-	-	-	-	25	14
Dicrotendipes simpsoni	-	-	-	-	-	-
Dicrotendipes sp. a epler	-	-	-	-	-	-
Dineutus	-	1	-	-	-	-
Diplectrona	-	-	-	-	-	-
Djalmabatista pulcher	-	-	-	-	-	-
Dryopidae	-	-	-	-	-	-
Dubiraphia vittata	2	1	2	3	-	-

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Dytiscidae	-	-	-	-	-	-
Eclipidrilus	-	-	-	-	-	-
Eclipidrilus palustris	-	-	-	-	-	-
Ectopria	-	-	-	-	-	-
Ectopria thoracica	-	-	-	-	-	-
Einfeldia sp. a epler	-	-	-	-	-	-
Elimia	29	19	-	-	-	-
Elmidae	-	-	-	-	-	-
Enallagma	-	-	-	5	-	-
Enallagma coecum	-	-	4	-	-	-
Enchytraeidae	-	-	-	-	-	-
Endotribelos hesperium	-	-	-	-	-	-
Enochrus	-	-	-	-	-	-
Epicordulia princeps regina	-	-	-	-	-	-
Eurylophella doris	-	-	-	-	-	-
Ferrissia	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-
Geayia	-	-	-	-	-	-
Gerridae	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-
Goeldichironomus	-	-	-	-	-	-
Goeldichironomus cf. natans	-	-	-	-	-	-
Goeldichironomus holoprasinus	-	-	-	-	-	-
Gomphidae	-	-	-	-	-	-
Gomphus	-	-	-	-	-	-
Gonielmis dietrichi	-	-	-	-	-	-
Gyrinidae	-	-	-	-	-	-
Gyrinus	-	-	-	-	-	-
Haemonais waldvogeli	-	-	-	-	-	-
Hagenius brevistylus	-	-	-	-	-	-
Haitia	17	14	-	-	-	-
Hayesomyia senata	-	-	-	-	-	-
Helichus	-	-	-	-	-	-
Helichus lithophilus	-	-	-	-	-	-
Helobdella stagnalis	-	-	-	-	-	-
Helobdella triserialis	-	-	-	-	-	-
Hemerodromia	2	-	-	-	-	-
Heptageniidae	-	4	-	-	-	-
Hetaerina	-	-	-	-	-	-
Hetaerina titia	-	-	-	-	-	-
Hexagenia	-	-	-	-	1	-
Hexatoma	-	-	-	-	-	-
Hirudinea	-	-	-	1	-	-
Hyalella azteca	3	2	-	-	-	-
Hydraena	-	-	-	-	-	-
Hydrobiidae	-	-	-	-	-	-
Hydrodroma	-	-	-	-	-	-
Hydrometra	-	-	-	-	-	-
Hydrophilidae	-	-	-	-	-	-
Hydropsyche	-	4	3	2	11	12

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Hydropsyche incommoda	-	-	-	-	-	-
Hydropsyche mississippiensis	-	-	-	-	-	-
Hydroptila	4	6	1	2	14	12
Hydrovatus	-	-	-	-	-	-
Hygrobates	-	-	-	1	-	-
Ischnura	-	-	-	-	-	-
Isonychia	-	-	-	-	-	1
Kiefferulus	-	-	-	-	-	-
Koenikea	-	-	-	-	-	-
Krendowskia	-	-	-	-	-	-
Labrundinia	-	-	-	-	-	-
Labrundinia becki	-	-	-	-	-	-
Labrundinia johannseni	-	-	-	-	-	-
Labrundinia pilosella	-	1	-	-	-	-
Labrundinia sp. 3 nr. virescens	-	-	-	-	-	-
Laccophilus	-	-	-	-	-	-
Laevapex	-	-	-	-	-	-
Larsia	-	-	-	-	-	-
Larsia decolorata	-	-	-	-	-	-
Lauterborniella agrayloides	-	-	-	-	-	-
Lebertia	-	-	-	1	-	-
Lepidoptera	-	-	-	-	-	-
Lepidostoma	-	-	-	-	-	-
Leptophlebiidae	7	6	-	-	-	-
Leuctra	-	-	-	-	-	-
Libellulidae	-	-	-	1	-	-
Limnesia	-	-	-	-	-	-
Limnodrilus hoffmeisteri	-	-	-	-	-	-
Lioporeus	-	-	-	-	-	-
Lirceus	-	-	-	-	-	-
Lopescladius	-	-	-	-	-	-
Lumbriculus variegatus	-	-	1	-	-	-
Lymnaeidae	-	-	-	-	-	-
Lype diversa	-	-	-	-	-	-
Maccaffertium	-	-	7	-	-	-
Maccaffertium exiguum	-	-	-	4	-	-
Maccaffertium smithae	-	-	-	-	-	-
Macromia	-	-	-	-	-	-
Macromia illinoiensis georgina	-	1	-	-	-	-
Macronychus glabratus	-	1	-	-	2	3
Macrostemum carolina	-	-	-	-	-	-
Mayatrichia ayama	-	-	-	-	-	-
Megistocera	-	-	-	-	-	-
Mesonoterus	-	-	-	-	-	-
Mesovelia	-	-	-	-	-	-
Micrasema	-	-	-	-	-	-
Microcylloepus pusillus	5	6	11	17	-	1
Micromenetus	-	-	-	3	-	-
Micromenetus dilatatus avus	-	-	1	-	-	-
Micropsectra	1	-	-	-	-	-

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Microtendipes	-	-	-	-	-	-
Microtendipes pedellus grp.	-	-	-	-	-	-
Microtendipes rydalensis grp.	10	3	-	-	-	-
Microvelia	-	-	-	-	-	-
Mideopsis	-	-	1	-	-	-
Momonia	-	-	-	-	-	-
Monopelopia	-	-	-	-	-	-
Mooreobdella	-	-	-	-	-	-
Naididae	-	-	-	-	-	-
Nais communis complex	-	-	-	-	-	-
Nais(animal)	-	-	-	-	-	-
Nanocladius	-	-	-	-	-	-
Nectopsyche	-	-	-	-	-	-
Nectopsyche exquisita	-	-	-	-	-	1
Nectopsyche pavida	-	-	-	-	-	-
Neoephemera	-	-	-	-	-	-
Neoperla	-	-	-	-	-	-
Neoplasta	-	-	-	-	-	-
Neoplea	-	-	-	-	-	-
Neoporus	-	-	-	-	-	-
Neotrichia	-	-	3	3	1	-
Neureclipsis	-	-	-	-	-	-
Neureclipsis crepuscularis	-	-	-	-	-	-
Neurocordulia	-	-	-	-	-	-
Neurocordulia alabamensis	-	-	-	-	-	-
Nigronia	-	-	-	-	-	-
Nigronia serricornis	-	-	-	-	-	-
Nilotanypus americanus	-	-	-	-	-	-
Nilotanypus fimbriatus	-	-	-	1	-	-
Nilothauma	-	-	-	-	-	-
Notomicrus nanulus	-	-	-	-	-	-
Nyctiophylax	-	-	-	-	-	-
Oecetis	1	-	-	-	-	-
Oecetis avara	-	-	-	-	-	-
Oecetis cinerascens	-	-	-	-	-	-
Oecetis georgia	-	-	-	-	-	-
Oecetis sphyra/morsei	-	-	-	-	2	1
Ora/scirtes	-	-	-	-	-	-
Oribatida	-	-	-	-	-	-
Ormosia	-	-	-	-	-	-
Orthocladius annectens	-	-	-	-	-	-
Orthotrichia	-	-	-	-	-	-
Oxus	-	-	-	-	-	-
Oxyethira	-	-	1	-	-	-
Pachydiplax longipennis	-	-	-	-	-	-
Palaemonetes	-	-	-	-	-	-
Palpomyia/bezzia grp.	-	-	-	-	-	-
Parachaetocladius abnobaeus	-	-	-	-	-	-
Parachironomus	-	-	-	-	-	-
Parachironomus chaetoalus complex	-	-	-	-	-	-

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Parachironomus supparilis	-	-	-	-	-	-
Paracladopelma	-	-	-	-	-	-
Paracymus	-	-	-	-	-	-
Parakiefferiella sp. b epler	-	-	-	-	-	-
Parakiefferiella sp. f epler	-	-	-	-	-	-
Paralauterborniella nigrohalterale	-	-	-	-	-	-
Paraleptophlebia volitans	-	-	-	-	-	-
Paramerina	-	-	-	-	-	-
Parametriocnemus	-	-	-	-	-	-
Paratanytarsus	1	-	-	-	-	-
Paratanytarsus dissimilis	-	-	-	-	-	-
Paratanytarsus quadratus	-	-	-	-	-	-
Paratendipes subaequalis	-	-	-	-	-	-
Pelonomus obscurus	-	-	-	-	-	-
Peltodytes	-	-	-	-	-	-
Peltodytes dietrichi	-	-	-	-	-	-
Pentaneura inconspicua	-	-	1	-	-	-
Perlesta placida complex	-	-	-	-	-	-
Perlinella drymo	-	-	-	-	-	-
Phaenopsectra flavipes	-	-	-	-	-	-
Phylocentropus	-	-	-	-	-	-
Physa	-	-	-	-	-	-
Physidae	-	-	-	-	-	1
Pilaria	-	-	-	-	-	-
Placobdella	-	-	-	-	-	-
Planorbella	-	-	-	-	-	-
Planorbidae	-	-	-	-	1	-
Platyhelminthes	-	-	-	-	-	-
Plauditus	-	-	-	-	-	-
Plauditus bimaculatus	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-
Polycentropodidae	-	1	-	2	-	-
Polycentropus	-	-	-	-	-	-
Polypedilum aviceps	-	-	-	-	-	-
Polypedilum fallax	-	-	-	1	-	-
Polypedilum flavum	2	-	12	7	13	15
Polypedilum halterale grp.	-	-	-	-	-	-
Polypedilum illinoense grp.	-	-	-	-	1	2
Polypedilum scalaenum grp.	-	-	1	1	1	3
Polypedilum sp. a epler	-	-	-	-	-	-
Polypedilum trigonus	-	-	-	-	-	-
Polypedilum tritum	-	-	-	-	-	-
Potthastia	-	-	-	-	-	-
Potthastia longimana	-	-	-	-	-	-
Pristina	-	-	-	-	-	-
Procambarus	-	2	-	-	-	-
Procladius	-	-	-	-	-	-
Procloeon	-	-	-	-	4	5
Progomphus	-	-	-	-	-	-
Progomphus obscurus	-	-	-	-	-	-

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Promoresia tardella	-	-	-	-	-	-
Prostoma	-	-	-	1	-	-
Psectrocladius	-	-	-	-	-	-
Pseudochironomus	2	7	-	-	1	-
Pseudocloeon	-	6	-	-	2	3
Pseudocloeon ephippiatum	-	-	-	-	-	-
Pseudocloeon frondale	-	-	-	-	-	-
Pseudocloeon propinquum	-	-	1	1	-	-
Pseudolimnophila	-	-	-	-	-	-
Psychodidae	-	-	-	-	-	-
Pteronarcys dorsata	-	-	-	-	-	-
Pyralidae	-	-	-	-	-	-
Rheocricotopus robacki	-	-	-	-	-	-
Rheotanytarsus	-	-	36	33	-	-
Rheotanytarsus exiguus grp.	2	5	-	-	-	-
Rheotanytarsus pellucidus	-	-	-	-	-	-
Rhyncholimnochares	-	-	-	-	-	-
Robackia claviger	-	-	-	-	-	-
Serratella deficiens	-	-	-	-	-	-
Sialis	-	-	-	-	-	-
Simulium	-	1	-	-	-	-
Simulium jonesi	-	-	-	-	-	-
Sisyra	-	-	-	-	-	-
Slavina appendiculata	-	-	2	-	-	-
Sperchon	-	-	-	-	-	-
Sperchonopsis	-	-	-	-	-	-
Sperchopsis	-	-	-	-	-	-
Sperchopsis tessellatus	-	-	-	-	-	-
Sphaeriidae(mollusca)	-	-	2	-	-	-
Spirosperma	-	-	-	-	-	-
Staphylinidae	-	-	-	-	-	-
Stelechomyia perpulchra	-	-	-	-	-	-
Stempellina	-	-	-	-	-	-
Stempellinella	-	-	-	-	-	-
Stempellinella fimbriata	-	-	-	-	-	-
Stempellinella leptocelloides	-	-	-	-	-	-
Stenacron	2	-	-	-	-	-
Stenacron interpunctatum	-	-	-	-	-	-
Stenelmis	-	-	4	3	-	4
Stenochironomus	-	-	-	-	1	-
Stenus	-	-	-	-	-	-
Stephensoniana trivandrana	-	-	-	-	-	-
Stratiomyidae	-	-	-	-	-	-
Sympetrum	-	-	-	-	-	-
Tabanidae	-	-	-	-	-	-
Taeniopteryx	-	-	-	-	-	-
Tanytarsus	-	-	-	-	-	-
Tanytarsus sp. a epler	1	-	-	-	-	-
Tanytarsus sp. c epler	1	5	14	20	-	2
Tanytarsus sp. d epler	-	-	-	-	-	-

As Calculated / STORET station ->	3546	3546	24010002	24010002	3549	3549
Sample date ->	5/15/2007	5/15/2007	5/16/2007	5/16/2007	9/19/2007	9/19/2007
Taxon Name / SampleID/BenthID ->	60639/38485/ Rep 1	60639/38485/ Rep 2	60751/38544/ Rep 1	60751/38544/ Rep 2	62733/39186/ Rep 1	62733/39186/ Rep 2
Tanytarsus sp. e epler	-	-	1	-	-	-
Tanytarsus sp. f epler	-	-	-	-	-	-
Tanytarsus sp. l epler	-	1	1	-	-	-
Tanytarsus sp. m epler	1	2	-	9	-	-
Tanytarsus sp. n epler	-	-	-	-	-	-
Tanytarsus sp. o epler	-	-	-	-	-	-
Tanytarsus sp. p epler	-	-	-	-	-	-
Tanytarsus sp. s epler	-	-	-	-	-	-
Tanytarsus sp. t epler	-	-	5	1	-	-
Tanytarsus sp. y epler	-	-	-	-	-	-
Thienemanniella	-	-	-	-	-	-
Thienemanniella lobapodema	-	-	-	1	-	-
Thienemanniella similis	-	-	-	-	1	-
Thienemanniella xena	-	-	-	-	-	-
Thienemannimyia grp.	1	1	-	-	1	1
Tipula	-	-	-	-	-	-
Tipula caloptera	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-
Torrenticola	-	-	-	-	-	-
Triaenodes	3	1	-	-	-	-
Triaenodes ignitus	-	-	-	-	-	-
Triaenodes perna/helo	-	-	-	-	-	-
Tribelos	-	-	-	-	-	-
Tribelos fuscicornis	-	-	-	-	1	-
Tribelos jucundum	-	-	1	-	-	-
Tricorythodes albilineatus	31	27	-	-	12	11
Tubificidae	-	-	-	-	-	-
Tvetenia	-	-	-	-	-	-
Tvetenia vitracies	1	-	-	-	-	-
Vertigo	-	-	-	-	-	-
Viviparus georgianus	-	-	-	-	-	-
Xenochironomus xenolabis	1	-	-	-	-	-
Xestochironomus	-	-	-	-	-	-
Xylotopus par	-	-	-	-	-	-
Zavreliella marmorata	-	-	-	-	-	-
Zavrelimyia sp. a epler	-	-	-	-	-	-

As Calculated / STORET station ->	3513	3513	3535	3535	LIB104LV	LIB104LV
Sample date ->	11/7/2007	11/7/2007	12/12/2007	12/12/2007	6/10/2008	6/10/2008
Taxon Name / SampleID/BenthID ->	63694/39707/ Rep 1	63694/39707/ Rep 2	64191/40004/ Rep 1	64191/40004/ Rep 2	65025/40260/ Rep 1	65025/40260/ Rep 2
Ablabesmyia mallochi	1	-	-	-	1	1
Ablabesmyia rhamphe grp.	-	-	-	-	-	-
Acentrella	-	-	-	-	-	-
Acentrella parvula	-	-	-	-	-	-
Acerpenna pygmaea	-	-	-	-	1	-
Acroneuria	-	-	-	-	-	-
Acroneuria abnormis	-	-	-	-	-	-
Acroneuria lycorias	-	-	-	-	-	-
Agnetina annulipes	-	-	-	-	-	-
Allonais inaequalis	-	-	-	-	-	-
Amnicola	-	-	-	-	-	-
Amphipoda	-	-	-	-	-	-
Ancylidae	-	-	-	-	-	-
Ancyronyx variegatus	-	-	-	-	1	4
Anisocentropus pyraloides	-	-	-	-	-	-
Apedilum	-	-	-	-	-	-
Argia	-	-	-	-	-	-
Argia fumipennis	-	-	-	-	-	-
Argia tibialis	-	-	-	-	-	-
Arrenurus	1	3	-	-	-	-
Asioplax	-	-	-	-	-	-
Atherix	-	-	-	-	-	-
Atractides	-	-	-	-	-	-
Atrichopogon	-	-	-	-	-	-
Aulodrilus pigueti	-	-	-	-	-	-
Baetidae	-	-	-	-	-	-
Baetis intercalaris	-	-	-	-	-	-
Baetisca becki	-	-	-	-	-	-
Baetisca rogersi	-	-	-	-	-	-
Beardius	2	2	-	-	-	-
Berosus	-	-	-	-	-	-
Bivalvia	-	-	-	-	-	-
Boyeria vinosa	-	-	-	-	-	-
Brachycentrus chelatus	-	-	-	-	-	-
Brachycentrus numerosus	-	-	-	-	-	-
Branchiobdellidae	-	-	-	-	-	-
Bratislavia unidentata	-	-	-	-	-	-
Brillia	-	-	-	-	-	-
Caecidotea	-	-	-	-	-	-
Caenis	2	4	-	-	-	-
Caenis diminuta	-	-	-	-	-	-
Caenis eglinensis	-	-	-	-	-	-
Caenis hilaris	-	-	-	-	-	-
Callibaetis	4	2	-	-	-	-
Callibaetis floridanus	-	-	-	-	-	-
Calopterygidae	-	-	-	-	-	-
Calopteryx	-	-	-	-	-	-
Cambaridae	-	-	-	-	1	5
Campeloma	-	-	-	-	-	-
Cecidomyiidae	-	-	-	-	-	-

As Calculated / STORET station ->	3513	3513	3535	3535	LIB104LV	LIB104LV
Sample date ->	11/7/2007	11/7/2007	12/12/2007	12/12/2007	6/10/2008	6/10/2008
Taxon Name / SampleID/BenthID ->	63694/39707/ Rep 1	63694/39707/ Rep 2	64191/40004/ Rep 1	64191/40004/ Rep 2	65025/40260/ Rep 1	65025/40260/ Rep 2
Celina	-	-	-	-	-	-
Centroptilum triangulifer	-	-	-	-	-	-
Ceraclea	-	-	-	-	-	-
Ceratopogonidae	-	-	-	-	-	-
Cernotina	-	-	-	-	-	-
Chauliodes	-	-	-	-	1	-
Cheumatopsyche	-	-	-	7	2	3
Chimarra	-	-	4	7	-	-
Chironomus	-	-	-	-	-	-
Choroterpes basalis	-	-	-	-	-	-
Chrysomelidae	-	-	-	-	1	-
Cladotanytarsus	-	-	-	-	-	-
Cladotanytarsus cf. daviesi	2	7	-	-	-	-
Cladotanytarsus sp. d epler	-	-	-	-	-	-
Cladotanytarsus sp. f epler	-	-	-	-	-	-
Cladotanytarsus viridiventris	-	-	-	-	-	-
Clathrosperchon	-	-	-	-	-	-
Climacia areolaris	-	-	-	-	-	-
Clinotanypus	-	-	-	-	-	-
Coenagrionidae	1	3	-	-	-	-
Corbicula fluminea	1	-	-	-	-	-
Corydalidae	-	-	-	-	-	-
Corydalus cornutus	-	-	1	-	-	-
Corynoneura	-	-	-	-	-	-
Crangonyx	-	-	-	-	-	-
Cricotopus	-	-	-	-	-	-
Cricotopus bicinctus	1	6	-	-	-	-
Cricotopus or orthocladius	8	8	-	-	-	-
Cryptochironomus	-	-	-	-	-	-
Cryptotendipes	-	2	-	-	-	-
Curculionidae	-	-	-	-	-	-
Cyrnellus fraternus	-	-	-	-	-	-
Dasyhelea	5	6	-	-	-	-
Dero	-	-	-	-	-	-
Dero digitata complex	-	-	1	-	-	-
Dero flabelliger	-	-	-	-	-	-
Dero furcata	-	-	-	-	-	-
Dero pectinata	-	-	-	-	-	-
Desmopachria	-	-	-	-	-	-
Desserobdella phalera	-	-	-	-	-	-
Dicrotendipes	1	1	-	-	-	-
Dicrotendipes modestus	-	-	-	-	-	-
Dicrotendipes neomodestus	-	-	-	-	-	-
Dicrotendipes simpsoni	-	-	-	-	-	-
Dicrotendipes sp. a epler	-	-	-	-	-	-
Dineutus	-	-	-	-	1	-
Diplectrona	-	-	-	-	-	-
Djalmabatista pulcher	-	-	-	-	-	-
Dryopidae	-	-	-	-	-	-
Dubiraphia vittata	-	-	-	-	-	-

As Calculated / STORET station ->	3513	3513	3535	3535	LIB104LV	LIB104LV
Sample date ->	11/7/2007	11/7/2007	12/12/2007	12/12/2007	6/10/2008	6/10/2008
Taxon Name / SampleID/BenthID ->	63694/39707/ Rep 1	63694/39707/ Rep 2	64191/40004/ Rep 1	64191/40004/ Rep 2	65025/40260/ Rep 1	65025/40260/ Rep 2
Dytiscidae	-	-	-	-	-	-
Eclipidrilus	-	-	-	-	-	-
Eclipidrilus palustris	-	-	-	-	-	-
Ectopria	-	-	-	-	-	-
Ectopria thoracica	-	-	-	-	-	-
Einfeldia sp. a epler	-	-	-	-	-	-
Elimia	-	-	-	-	-	-
Elmidae	-	-	1	-	-	-
Enallagma	-	-	-	-	-	-
Enallagma coecum	-	-	-	-	-	-
Enchytraeidae	-	-	-	-	1	-
Endotribelos hesperium	-	-	-	-	-	-
Enochrus	-	-	-	-	-	-
Epicordulia princeps regina	-	-	-	-	-	-
Eurylophella doris	-	-	-	-	-	1
Ferrissia	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-
Geayia	-	-	-	-	-	-
Gerridae	-	-	-	-	-	-
Glossiphoniidae	1	-	-	-	-	-
Goeldichironomus	-	-	-	-	-	-
Goeldichironomus cf. natans	1	-	-	-	-	-
Goeldichironomus holoprasinus	-	-	-	-	-	-
Gomphidae	-	-	-	-	-	-
Gomphus	-	-	-	-	-	-
Gonielmis dietrichi	-	-	-	-	5	1
Gyrinidae	-	-	-	-	-	-
Gyrinus	-	-	-	-	-	-
Haemonais waldvogeli	-	-	-	-	-	-
Hagenius brevistylus	-	-	-	-	-	-
Haitia	-	-	-	-	-	-
Hayesomyia senata	-	-	-	-	-	-
Helichus	-	-	-	-	-	-
Helichus lithophilus	-	-	-	-	-	-
Helobdella stagnalis	-	-	-	-	-	-
Helobdella triserialis	-	-	-	-	-	-
Hemerodromia	-	-	-	-	-	3
Heptageniidae	-	-	-	-	3	-
Hetaerina	-	-	-	-	-	-
Hetaerina titia	-	-	-	-	-	-
Hexagenia	-	-	-	-	-	-
Hexatoma	-	-	-	-	-	-
Hirudinea	-	-	-	-	-	-
Hyalella azteca	54	34	-	-	-	-
Hydraena	-	-	-	-	-	-
Hydrobiidae	4	1	-	-	-	-
Hydrodroma	-	1	-	-	3	-
Hydrometra	-	-	-	-	-	-
Hydrophilidae	-	-	-	-	-	-
Hydropsyche	-	-	60	31	3	2

As Calculated / STORET station ->	3513	3513	3535	3535	LIB104LV	LIB104LV
Sample date ->	11/7/2007	11/7/2007	12/12/2007	12/12/2007	6/10/2008	6/10/2008
Taxon Name / SampleID/BenthID ->	63694/39707/ Rep 1	63694/39707/ Rep 2	64191/40004/ Rep 1	64191/40004/ Rep 2	65025/40260/ Rep 1	65025/40260/ Rep 2
Hydropsyche incommoda	-	-	-	-	-	-
Hydropsyche mississippiensis	-	-	-	-	-	-
Hydroptila	-	-	-	-	-	-
Hydrovatus	-	-	-	-	-	-
Hygrobates	-	-	-	-	-	-
Ischnura	-	-	-	-	-	-
Isonychia	-	-	-	-	-	-
Kiefferulus	-	-	-	-	-	-
Koenikea	-	-	-	-	-	-
Krendowskia	-	-	-	-	-	-
Labrundinia	-	-	-	-	-	-
Labrundinia becki	-	-	-	-	-	-
Labrundinia johannseni	-	-	-	-	-	-
Labrundinia pilosella	-	-	-	-	-	-
Labrundinia sp. 3 nr. virescens	-	1	-	-	-	-
Laccophilus	-	-	-	-	-	-
Laevapex	-	-	-	-	-	-
Larsia	-	-	-	-	-	-
Larsia decolorata	6	6	-	-	-	-
Lauterborniella agrayloides	-	-	-	-	-	-
Lebertia	-	1	-	-	-	-
Lepidoptera	-	-	-	-	-	-
Lepidostoma	-	-	-	-	-	-
Leptophlebiidae	-	-	-	-	3	4
Leuctra	-	-	-	-	29	24
Libellulidae	-	-	-	-	-	-
Limnesia	-	-	-	-	1	-
Limnodrilus hoffmeisteri	-	-	-	-	-	-
Lioporeus	-	-	-	-	-	-
Lirceus	-	-	-	-	-	-
Lopescladius	-	-	-	-	-	-
Lumbriculus variegatus	-	-	-	-	-	-
Lymnaeidae	-	-	-	-	-	-
Lype diversa	-	-	-	-	-	1
Maccaffertium	-	-	-	-	-	-
Maccaffertium exiguum	-	-	-	-	-	-
Maccaffertium smithae	-	-	-	-	-	-
Macromia	-	-	-	-	-	-
Macromia illinoiensis georgina	-	-	-	-	-	-
Macronychus glabratus	-	-	-	-	-	-
Macrostemum carolina	-	-	4	3	-	-
Mayatrichia ayama	-	-	-	-	-	-
Megistocera	-	-	-	-	-	-
Mesonoterus	-	-	-	-	-	-
Mesovelia	-	-	-	-	-	-
Micrasema	-	-	-	-	-	-
Microcylloepus pusillus	-	-	-	-	9	14
Micromenetus	-	-	-	-	-	-
Micromenetus dilatatus avus	-	-	-	-	-	-
Micropsectra	-	-	-	-	-	-

As Calculated / STORET station ->	3513	3513	3535	3535	LIB104LV	LIB104LV
Sample date ->	11/7/2007	11/7/2007	12/12/2007	12/12/2007	6/10/2008	6/10/2008
Taxon Name / SampleID/BenthID ->	63694/39707/ Rep 1	63694/39707/ Rep 2	64191/40004/ Rep 1	64191/40004/ Rep 2	65025/40260/ Rep 1	65025/40260/ Rep 2
Microtendipes	-	-	-	-	-	-
Microtendipes pedellus grp.	-	-	-	-	-	-
Microtendipes rydalensis grp.	-	-	-	-	-	1
Microvelia	-	-	-	-	-	-
Mideopsis	-	-	-	-	-	-
Momonia	-	-	-	-	-	-
Monopelopia	-	1	-	-	-	-
Mooreobdella	-	-	-	-	-	-
Naididae	-	-	-	-	-	-
Nais communis complex	-	-	-	-	-	-
Nais(animal)	-	-	-	-	-	-
Nanocladius	1	-	-	-	-	-
Nectopsyche	-	-	-	-	-	-
Nectopsyche exquisita	-	-	-	-	-	-
Nectopsyche pavida	-	-	-	-	-	-
Neoephemera	-	-	-	-	-	-
Neoperla	-	-	-	-	-	-
Neoplasta	-	-	-	-	-	-
Neoplea	-	-	-	-	-	-
Neoporus	-	-	-	-	-	2
Neotrichia	-	-	-	-	-	-
Neureclipsis	-	-	-	-	-	-
Neureclipsis crepuscularis	-	-	-	-	-	-
Neurocordulia	-	-	-	-	-	-
Neurocordulia alabamensis	-	-	-	-	-	-
Nigronia	-	-	-	-	-	-
Nigronia serricornis	-	-	-	-	-	-
Nilotanypus americanus	-	-	-	-	-	-
Nilotanypus fimbriatus	-	-	-	-	-	-
Nilothauma	-	-	-	-	-	-
Notomicrus nanulus	-	-	-	-	-	-
Nyctiophylax	-	-	-	-	-	-
Oecetis	-	-	-	-	4	3
Oecetis avara	-	-	-	-	-	-
Oecetis cinerascens	-	-	-	-	-	-
Oecetis georgia	-	-	-	-	-	-
Oecetis sphyra/morsei	-	-	-	-	-	-
Ora/scirtes	-	-	-	-	-	-
Oribatida	-	-	-	-	-	-
Ormosia	-	-	-	-	-	-
Orthocladius annectens	-	-	39	36	-	-
Orthotrichia	-	-	-	-	-	-
Oxus	1	-	-	-	-	-
Oxyethira	5	5	-	-	1	2
Pachydiplax longipennis	-	-	-	-	-	-
Palaemonetes	-	1	-	-	-	-
Palpomyia/bezzia grp.	-	-	-	-	-	-
Parachaetocladius abnobaeus	-	-	-	-	-	-
Parachironomus	-	-	-	-	-	-
Parachironomus chaetoalus complex	2	-	-	-	-	-

As Calculated / STORET station ->	3513	3513	3535	3535	LIB104LV	LIB104LV
Sample date ->	11/7/2007	11/7/2007	12/12/2007	12/12/2007	6/10/2008	6/10/2008
Taxon Name / SampleID/BenthID ->	63694/39707/ Rep 1	63694/39707/ Rep 2	64191/40004/ Rep 1	64191/40004/ Rep 2	65025/40260/ Rep 1	65025/40260/ Rep 2
Parachironomus supparilis	1	-	-	-	-	-
Paracladopelma	-	-	-	-	-	-
Paracymus	-	-	-	-	-	-
Parakiefferiella sp. b epler	-	-	-	-	-	-
Parakiefferiella sp. f epler	-	1	-	-	-	-
Paralauterborniella nigrohalterale	-	-	-	-	-	-
Paraleptophlebia volitans	-	-	-	-	-	-
Paramerina	-	-	-	-	-	-
Parametriocnemus	-	-	-	-	3	3
Paratanytarsus	2	-	-	-	-	-
Paratanytarsus dissimilis	-	-	-	-	-	-
Paratanytarsus quadratus	-	6	-	-	-	-
Paratendipes subaequalis	-	-	-	-	-	-
Pelonomus obscurus	-	-	-	-	-	-
Peltodytes	-	-	-	-	-	-
Peltodytes dietrichi	-	-	-	-	-	-
Pentaneura inconspicua	-	-	-	-	-	3
Perlesta placida complex	-	-	-	-	4	-
Perlinella drymo	-	-	-	-	-	-
Phaenopsectra flavipes	-	-	-	-	-	-
Phylocentropus	-	-	-	-	-	-
Physa	-	-	-	-	-	-
Physidae	2	9	-	-	-	-
Pilaria	-	-	-	-	-	-
Placobdella	-	-	-	-	-	-
Planorbella	-	-	-	-	-	-
Planorbidae	-	-	-	-	-	-
Platyhelminthes	-	-	-	-	-	-
Plauditus	-	-	-	-	-	-
Plauditus bimaculatus	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-
Polycentropodidae	-	-	-	-	-	-
Polycentropus	-	-	-	-	-	-
Polypedilum aviceps	-	-	-	-	3	1
Polypedilum fallax	-	-	-	-	-	-
Polypedilum flavum	-	-	5	7	-	1
Polypedilum halterale grp.	-	-	-	-	-	-
Polypedilum illinoense grp.	-	1	1	2	8	9
Polypedilum scalaenum grp.	1	1	-	-	3	-
Polypedilum sp. a epler	1	1	-	-	-	-
Polypedilum trigonus	-	1	-	-	-	-
Polypedilum tritum	-	-	-	-	-	-
Potthastia	-	-	-	1	-	-
Potthastia longimana	-	-	-	-	-	-
Pristina	-	-	-	-	-	-
Procambarus	-	-	-	-	-	-
Procladius	-	-	-	-	-	-
Procloeon	-	1	-	-	-	-
Progomphus	-	-	-	-	-	-
Progomphus obscurus	-	-	-	-	-	-

As Calculated / STORET station ->	3513	3513	3535	3535	LIB104LV	LIB104LV
Sample date ->	11/7/2007	11/7/2007	12/12/2007	12/12/2007	6/10/2008	6/10/2008
Taxon Name / SampleID/BenthID ->	63694/39707/ Rep 1	63694/39707/ Rep 2	64191/40004/ Rep 1	64191/40004/ Rep 2	65025/40260/ Rep 1	65025/40260/ Rep 2
Promoresia tardella	-	-	-	-	-	-
Prostoma	-	-	-	-	-	-
Psectrocladius	-	-	-	-	-	-
Pseudochironomus	6	8	-	-	-	-
Pseudocloeon	1	-	-	-	3	-
Pseudocloeon ephippiatum	-	-	-	-	-	-
Pseudocloeon frondale	-	-	-	-	-	-
Pseudocloeon propinquum	-	-	-	-	-	-
Pseudolimnophila	-	-	-	-	-	-
Psychodidae	-	-	-	-	-	-
Pteronarcys dorsata	-	-	-	-	-	-
Pyralidae	1	-	-	-	-	-
Rheocricotopus robacki	-	-	-	-	-	-
Rheotanytarsus	-	-	-	-	-	-
Rheotanytarsus exiguus grp.	-	-	1	-	9	5
Rheotanytarsus pellucidus	-	-	-	-	-	1
Rhyncholimnochares	-	-	-	-	-	-
Robackia claviger	-	-	-	-	-	-
Serratella deficiens	-	-	-	-	-	-
Sialis	-	-	-	-	-	-
Simulium	-	-	7	12	-	-
Simulium jonesi	-	-	-	-	-	-
Sisyra	-	-	-	-	-	-
Slavina appendiculata	-	-	-	-	-	-
Sperchon	-	-	-	-	-	-
Sperchonopsis	-	-	-	-	-	-
Sperchopsis	-	-	-	-	-	-
Sperchopsis tessellatus	-	-	-	-	-	-
Sphaeriidae(mollusca)	-	-	-	-	-	-
Spirosperma	-	-	-	-	-	-
Staphylinidae	-	-	-	-	-	-
Stelechomyia perpulchra	-	-	-	-	-	-
Stempellina	-	-	-	-	-	-
Stempellinella	-	-	-	-	-	-
Stempellinella fimbriata	-	-	-	-	1	1
Stempellinella leptocelloides	-	-	-	-	-	-
Stenacron	-	-	-	-	-	4
Stenacron interpunctatum	-	-	-	-	-	-
Stenelmis	-	-	-	1	8	11
Stenochironomus	-	-	-	-	-	4
Stenus	-	-	-	-	-	-
Stephensoniana trivandrana	-	-	-	-	-	-
Stratiomyidae	1	-	-	-	-	-
Sympetrum	-	-	-	-	-	-
Tabanidae	-	-	-	-	-	-
Taeniopteryx	-	-	-	-	-	-
Tanytarsus	-	-	-	-	-	-
Tanytarsus sp. a epler	-	-	-	-	-	-
Tanytarsus sp. c epler	26	20	-	-	-	-
Tanytarsus sp. d epler	-	-	3	2	-	-

As Calculated / STORET station ->	3513	3513	3535	3535	LIB104LV	LIB104LV
Sample date ->	11/7/2007	11/7/2007	12/12/2007	12/12/2007	6/10/2008	6/10/2008
Taxon Name / SampleID/BenthID ->	63694/39707/ Rep 1	63694/39707/ Rep 2	64191/40004/ Rep 1	64191/40004/ Rep 2	65025/40260/ Rep 1	65025/40260/ Rep 2
Tanytarsus sp. e epler	-	-	-	-	-	-
Tanytarsus sp. f epler	-	-	-	-	-	-
Tanytarsus sp. l epler	-	-	-	-	-	1
Tanytarsus sp. m epler	-	-	-	-	23	20
Tanytarsus sp. n epler	-	-	-	-	1	4
Tanytarsus sp. o epler	-	-	-	-	-	-
Tanytarsus sp. p epler	-	-	-	-	-	-
Tanytarsus sp. s epler	-	-	-	-	-	-
Tanytarsus sp. t epler	1	-	-	-	-	-
Tanytarsus sp. y epler	-	-	-	-	-	-
Thienemanniella	-	-	1	-	-	1
Thienemanniella lobapodema	-	-	-	-	-	-
Thienemanniella similis	-	-	-	-	-	-
Thienemanniella xena	-	-	-	-	-	-
Thienemannimyia grp.	-	-	-	1	7	4
Tipula	-	-	-	-	-	-
Tipula caloptera	-	-	-	-	-	-
Tipulidae	-	-	-	-	1	-
Torrenticola	-	-	-	-	-	-
Triaenodes	-	-	-	-	1	-
Triaenodes ignitus	-	-	-	-	-	-
Triaenodes perna/helo	-	-	-	-	-	-
Tribelos	-	-	-	-	-	1
Tribelos fuscicornis	-	-	-	-	1	-
Tribelos jucundum	-	-	-	-	-	-
Tricorythodes albilineatus	13	10	-	-	-	-
Tubificidae	-	-	-	-	-	-
Tvetenia	-	-	-	-	-	-
Tvetenia vitracies	-	-	32	48	-	-
Vertigo	-	-	-	-	-	-
Viviparus georgianus	-	-	-	-	-	-
Xenochironomus xenolabis	-	-	-	-	-	-
Xestochironomus	-	-	-	-	-	-
Xylotopus par	-	-	-	-	-	-
Zavreliella marmorata	-	-	-	-	-	-
Zavrelimyia sp. a epler	-	-	-	-	-	-

As Calculated / STORET station ->	22020093	22020093	GAD106GS	GAD106GS	NUTREF001	NUTREF001
Sample date ->	6/13/2008	6/13/2008	6/13/2008	6/13/2008	6/10/2008	6/10/2008
	65026/40261/	65026/40261/	65028/40263/	65028/40263/	65029/40264/	65029/40264/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Ablabesmyia mallochi	1	-	-	-	-	1
Ablabesmyia rhamphe grp.	-	-	-	-	-	-
Acentrella	-	-	-	-	-	-
Acentrella parvula	-	-	-	-	-	-
Acerpenna pygmaea	-	-	-	-	5	8
Acroneuria	-	-	1	2	-	1
Acroneuria abnormis	-	-	-	-	1	-
Acroneuria lycorias	-	-	-	-	-	-
Agnetina annulipes	-	-	-	-	1	-
Allonais inaequalis	-	-	-	-	-	-
Amnicola	-	-	-	-	-	-
Amphipoda	-	-	-	-	-	-
Ancylidae	36	33	2	1	2	-
Ancyronyx variegatus	4	8	-	-	1	2
Anisocentropus pyraloides	-	-	1	7	-	-
Apedilum	-	-	-	-	-	-
Argia	-	-	-	-	-	-
Argia fumipennis	-	-	-	-	-	-
Argia tibialis	-	-	-	-	-	-
Arrenurus	-	-	-	-	-	-
Asioplax	-	-	-	-	-	-
Atherix	-	-	-	-	1	3
Atractides	-	-	-	-	-	-
Atrichopogon	-	1	-	-	1	-
Aulodrilus pigueti	-	-	-	-	-	-
Baetidae	2	-	-	-	-	-
Baetis intercalaris	-	-	-	-	-	-
Baetisca becki	-	-	-	-	-	-
Baetisca rogersi	-	-	-	-	-	-
Beardius	-	-	-	-	-	-
Berosus	-	-	-	-	-	-
Bivalvia	-	-	-	-	-	-
Boyeria vinosa	-	-	-	1	-	-
Brachycentrus chelatus	-	-	-	-	-	-
Brachycentrus numerosus	-	-	-	-	-	-
Branchiobdellidae	-	-	-	1	-	-
Bratislavia unidentata	-	1	-	-	-	-
Brillia	-	1	-	-	-	-
Caecidotea	-	-	-	-	3	1
Caenis	-	-	2	3	3	6
Caenis diminuta	-	-	-	-	-	-
Caenis eglinensis	-	-	-	-	-	-
Caenis hilaris	-	-	-	-	-	-
Callibaetis	-	-	-	-	-	-
Callibaetis floridanus	-	-	-	-	-	-
Calopterygidae	-	2	6	5	-	1
Calopteryx	-	-	-	-	-	-
Cambaridae	-	-	1	-	-	1
Campeloma	-	-	-	-	-	-
Cecidomyiidae	-	-	-	-	-	-

As Calculated / STORET station ->	22020093	22020093	GAD106GS	GAD106GS	NUTREF001	NUTREF001
Sample date ->	6/13/2008	6/13/2008	6/13/2008	6/13/2008	6/10/2008	6/10/2008
	65026/40261/	65026/40261/	65028/40263/	65028/40263/	65029/40264/	65029/40264/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Celina	-	-	-	-	-	-
Centroptilum triangulifer	-	7	-	-	-	-
Ceraclea	-	-	-	-	-	1
Ceratopogonidae	-	-	-	-	-	-
Cernotina	-	-	-	-	-	-
Chauliodes	-	-	-	-	-	-
Cheumatopsyche	11	19	4	11	12	13
Chimarra	-	-	-	2	1	-
Chironomus	1	-	-	-	-	-
Choroterpes basalis	-	-	-	-	-	-
Chrysomelidae	-	-	-	-	-	-
Cladotanytarsus	-	-	-	-	-	-
Cladotanytarsus cf. daviesi	-	-	-	-	-	-
Cladotanytarsus sp. d epler	-	-	-	-	-	-
Cladotanytarsus sp. f epler	-	-	-	-	-	-
Cladotanytarsus viridiventris	-	-	-	-	-	-
Clathrosperchon	-	-	-	-	-	-
Climacia areolaris	-	-	-	-	-	-
Clinotanypus	-	-	-	-	-	-
Coenagrionidae	1	-	-	-	-	-
Corbicula fluminea	2	1	-	-	-	-
Corydalidae	-	-	-	-	-	1
Corydalus cornutus	-	-	-	-	-	-
Corynoneura	-	-	-	-	-	-
Crangonyx	-	-	-	-	-	-
Cricotopus	-	-	-	-	-	-
Cricotopus bicinctus	-	-	-	-	-	-
Cricotopus or orthocladius	-	-	-	-	-	-
Cryptochironomus	-	-	-	-	-	-
Cryptotendipes	-	-	-	-	-	-
Curculionidae	-	-	-	-	-	-
Cyrnellus fraternus	-	-	-	-	-	-
Dasyhelea	-	-	-	-	-	-
Dero	-	-	-	-	-	-
Dero digitata complex	-	-	-	-	-	-
Dero flabelliger	-	-	-	-	-	-
Dero furcata	-	-	-	-	-	-
Dero pectinata	-	-	-	-	-	-
Desmopachria	-	-	-	-	-	-
Desserobdella phalera	-	-	-	-	-	-
Dicrotendipes	-	-	-	-	-	-
Dicrotendipes modestus	-	-	-	-	-	-
Dicrotendipes neomodestus	-	-	-	-	-	-
Dicrotendipes simpsoni	-	-	-	-	-	-
Dicrotendipes sp. a epler	-	-	-	-	-	-
Dineutus	-	2	-	-	-	-
Diplectrona	-	-	2	6	-	-
Djalmabatista pulcher	-	-	-	-	-	-
Dryopidae	-	-	-	-	-	-
Dubiraphia vittata	-	-	-	-	-	1

As Calculated / STORET station ->	22020093	22020093	GAD106GS	GAD106GS	NUTREF001	NUTREF001
Sample date ->	6/13/2008	6/13/2008	6/13/2008	6/13/2008	6/10/2008	6/10/2008
	65026/40261/	65026/40261/	65028/40263/	65028/40263/	65029/40264/	65029/40264/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Dytiscidae	-	-	-	-	-	-
Eclipidrilus	-	-	-	1	1	1
Eclipidrilus palustris	-	-	-	-	-	-
Ectopria	-	-	-	-	-	-
Ectopria thoracica	-	-	-	-	-	-
Einfeldia sp. a epler	-	-	-	-	-	-
Elimia	-	-	-	-	-	-
Elmidae	-	-	-	-	-	-
Enallagma	-	3	-	-	-	-
Enallagma coecum	-	-	-	-	-	-
Enchytraeidae	-	-	4	-	-	-
Endotribelos hesperium	-	-	-	-	1	-
Enochrus	-	-	-	-	-	-
Epicordulia princeps regina	-	-	-	-	-	-
Eurylophella doris	-	-	1	-	1	-
Ferrissia	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-
Geayia	-	-	-	-	-	-
Gerridae	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-
Goeldichironomus	-	-	-	-	-	-
Goeldichironomus cf. natans	-	-	-	-	-	-
Goeldichironomus holoprasinus	-	-	-	-	-	-
Gomphidae	-	-	-	-	-	-
Gomphus	-	-	-	-	-	-
Gonielmis dietrichi	-	-	3	3	-	-
Gyrinidae	-	-	-	-	-	-
Gyrinus	-	-	-	-	-	-
Haemonais waldvogeli	-	-	-	-	-	-
Hagenius brevistylus	-	-	-	-	-	-
Haitia	-	-	-	-	-	-
Hayesomyia senata	-	-	-	-	-	-
Helichus	-	-	-	2	-	-
Helichus lithophilus	-	-	-	-	-	-
Helobdella stagnalis	-	-	-	-	-	-
Helobdella triserialis	-	-	-	-	-	-
Hemerodromia	-	1	8	7	-	-
Heptageniidae	-	-	-	-	2	3
Hetaerina	-	-	-	-	-	-
Hetaerina titia	-	-	-	-	-	-
Hexagenia	-	-	-	-	-	-
Hexatoma	-	-	-	-	-	-
Hirudinea	-	-	-	-	-	-
Hyalella azteca	-	1	-	-	-	-
Hydraena	-	-	-	-	-	-
Hydrobiidae	-	-	-	-	-	-
Hydrodroma	-	-	-	-	-	-
Hydrometra	-	-	-	-	-	-
Hydrophilidae	-	-	-	-	-	-
Hydropsyche	-	-	9	3	5	6

As Calculated / STORET station ->	22020093	22020093	GAD106GS	GAD106GS	NUTREF001	NUTREF001
Sample date ->	6/13/2008	6/13/2008	6/13/2008	6/13/2008	6/10/2008	6/10/2008
	65026/40261/	65026/40261/	65028/40263/	65028/40263/	65029/40264/	65029/40264/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Hydropsyche incommoda	-	-	-	-	-	-
Hydropsyche mississippiensis	-	-	-	-	-	-
Hydroptila	-	-	-	-	-	-
Hydrovatus	-	-	-	-	-	-
Hygrobates	1	-	-	-	-	-
Ischnura	-	-	-	-	-	-
Isonychia	-	-	-	-	-	-
Kiefferulus	-	-	-	-	-	-
Koenikea	-	-	-	-	-	-
Krendowskia	-	-	-	-	-	-
Labrundinia	-	-	-	-	-	-
Labrundinia becki	-	-	-	-	-	-
Labrundinia johannseni	-	-	-	-	-	-
Labrundinia pilosella	-	-	-	-	-	-
Labrundinia sp. 3 nr. virescens	-	-	-	-	-	-
Laccophilus	-	-	-	-	-	-
Laevapex	-	-	-	-	-	-
Larsia	-	-	-	-	-	-
Larsia decolorata	-	-	-	-	-	-
Lauterborniella agrayloides	-	-	-	-	-	-
Lebertia	-	-	-	-	-	1
Lepidoptera	-	-	-	-	1	-
Lepidostoma	-	-	-	-	-	-
Leptophlebiidae	-	-	-	-	11	12
Leuctra	-	-	2	1	6	9
Libellulidae	-	-	1	-	-	-
Limnesia	-	-	-	-	-	-
Limnodrilus hoffmeisteri	-	-	-	-	-	-
Lioporeus	-	-	-	-	-	-
Lirceus	-	-	-	-	-	-
Lopescladius	-	-	-	-	-	-
Lumbriculus variegatus	-	-	-	-	-	-
Lymnaeidae	-	-	-	-	-	-
Lype diversa	-	-	4	3	-	-
Maccaffertium	9	1	13	15	-	-
Maccaffertium exiguum	-	-	-	-	-	-
Maccaffertium smithae	-	-	-	-	-	-
Macromia	-	-	-	-	-	-
Macromia illinoiensis georgina	-	-	-	-	-	-
Macronychus glabratus	5	1	-	1	3	3
Macrostemum carolina	-	-	-	-	-	-
Mayatrichia ayama	-	-	-	-	-	-
Megistocera	-	-	-	-	-	-
Mesonoterus	-	-	-	-	-	-
Mesovelia	-	-	-	-	-	-
Micrasema	-	-	-	-	-	-
Microcylloepus pusillus	-	1	4	8	1	5
Micromenetus	-	-	-	-	-	-
Micromenetus dilatatus avus	-	-	-	-	-	-
Micropsectra	-	-	-	-	-	-

As Calculated / STORET station ->	22020093	22020093	GAD106GS	GAD106GS	NUTREF001	NUTREF001
Sample date ->	6/13/2008	6/13/2008	6/13/2008	6/13/2008	6/10/2008	6/10/2008
	65026/40261/	65026/40261/	65028/40263/	65028/40263/	65029/40264/	65029/40264/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Microtendipes	-	-	-	-	-	-
Microtendipes pedellus grp.	-	-	-	-	-	-
Microtendipes rydalensis grp.	-	-	-	-	-	-
Microvelia	-	-	-	-	-	-
Mideopsis	1	1	-	-	-	-
Momonia	-	-	-	-	-	-
Monopelopia	-	-	-	-	-	-
Mooreobdella	-	-	-	-	-	-
Naididae	-	-	-	-	1	-
Nais communis complex	-	-	2	-	-	-
Nais(animal)	-	-	-	-	-	-
Nanocladius	-	-	-	-	-	-
Nectopsyche	-	-	4	-	-	-
Nectopsyche exquisita	-	-	-	-	-	-
Nectopsyche pavida	-	-	-	-	-	-
Neoephemera	-	-	-	-	-	-
Neoperla	-	-	-	-	1	1
Neoplasta	-	-	4	5	-	1
Neoplea	-	-	-	-	-	-
Neoporus	1	-	-	-	-	-
Neotrichia	1	-	-	-	-	-
Neureclipsis	-	-	-	-	-	-
Neureclipsis crepuscularis	-	-	-	-	-	-
Neurocordulia	-	-	-	-	-	-
Neurocordulia alabamensis	-	-	-	-	-	-
Nigronia	1	-	9	7	-	-
Nigronia serricornis	-	-	-	-	-	-
Nilotanypus americanus	-	-	-	-	-	-
Nilotanypus fimbriatus	-	-	-	-	-	-
Nilothauma	-	-	-	-	-	-
Notomicrus nanulus	-	-	-	-	-	-
Nyctiophylax	-	-	-	-	-	-
Oecetis	-	1	2	-	12	10
Oecetis avara	-	-	-	-	-	-
Oecetis cinerascens	-	-	-	-	-	-
Oecetis georgia	-	-	-	-	-	-
Oecetis sphyra/morsei	-	-	-	-	-	-
Ora/scirtes	-	-	-	-	-	2
Oribatida	-	-	-	1	-	-
Ormosia	-	-	-	1	-	-
Orthocladius annectens	-	-	-	-	-	-
Orthotrichia	-	-	-	-	-	-
Oxus	-	-	-	-	-	-
Oxyethira	-	-	-	-	-	-
Pachydiplax longipennis	-	-	-	-	-	-
Palaemonetes	-	-	-	-	-	-
Palpomyia/bezzia grp.	-	-	-	-	-	-
Parachaetocladius abnobaeus	-	-	-	-	-	-
Parachironomus	-	-	-	-	-	-
Parachironomus chaetoalus complex	-	-	-	-	-	-

As Calculated / STORET station ->	22020093	22020093	GAD106GS	GAD106GS	NUTREF001	NUTREF001
Sample date ->	6/13/2008	6/13/2008	6/13/2008	6/13/2008	6/10/2008	6/10/2008
	65026/40261/	65026/40261/	65028/40263/	65028/40263/	65029/40264/	65029/40264/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Parachironomus supparilis	-	-	-	-	-	-
Paracladopelma	3	-	-	-	-	-
Paracymus	-	1	-	-	-	-
Parakiefferiella sp. b epler	-	-	-	-	-	-
Parakiefferiella sp. f epler	-	-	-	-	-	-
Paralauterborniella nigrohalterale	-	-	-	1	-	-
Paraleptophlebia volitans	-	-	-	-	-	-
Paramerina	-	-	-	-	-	-
Parametriocnemus	-	-	2	-	-	-
Paratanytarsus	-	-	-	-	-	-
Paratanytarsus dissimilis	2	-	-	-	-	-
Paratanytarsus quadratus	-	-	-	-	-	-
Paratendipes subaequalis	-	-	-	-	-	-
Pelonomus obscurus	-	-	-	-	-	-
Peltodytes	-	-	-	-	-	-
Peltodytes dietrichi	-	-	-	-	-	-
Pentaneura inconspicua	-	-	-	-	-	-
Perlesta placida complex	-	-	1	2	-	-
Perlinella drymo	-	-	-	-	-	-
Phaenopsectra flavipes	-	-	-	-	-	-
Phylocentropus	-	-	-	-	-	-
Physa	1	-	-	-	-	-
Physidae	-	-	-	-	-	-
Pilaria	-	-	5	5	-	-
Placobdella	-	-	-	-	-	-
Planorbella	-	-	-	-	-	-
Planorbidae	-	-	-	-	-	-
Platyhelminthes	-	1	-	-	-	-
Plauditus	-	-	-	-	-	-
Plauditus bimaculatus	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-
Polycentropodidae	-	-	1	-	-	-
Polycentropus	-	-	-	-	-	-
Polypedilum aviceps	-	1	7	9	-	-
Polypedilum fallax	-	-	4	-	-	-
Polypedilum flavum	18	23	-	-	8	8
Polypedilum halterale grp.	-	-	-	-	-	-
Polypedilum illinoense grp.	2	1	3	3	1	-
Polypedilum scalaenum grp.	1	-	-	-	4	1
Polypedilum sp. a epler	-	-	-	-	-	-
Polypedilum trigonus	-	-	-	-	-	-
Polypedilum tritum	-	-	-	-	-	-
Potthastia	-	-	-	-	-	-
Potthastia longimana	-	-	-	-	1	-
Pristina	-	-	-	-	-	-
Procambarus	1	-	-	-	-	-
Procladius	-	-	-	-	-	-
Procloeon	-	-	-	-	-	-
Progomphus	-	1	3	-	-	-
Progomphus obscurus	-	-	-	-	-	-

As Calculated / STORET station ->	22020093	22020093	GAD106GS	GAD106GS	NUTREF001	NUTREF001
Sample date ->	6/13/2008	6/13/2008	6/13/2008	6/13/2008	6/10/2008	6/10/2008
	65026/40261/	65026/40261/	65028/40263/	65028/40263/	65029/40264/	65029/40264/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Promoresia tardella	-	-	-	-	-	-
Prostoma	-	-	-	-	-	-
Psectrocladius	-	-	-	-	-	-
Pseudochironomus	-	-	-	-	-	-
Pseudocloeon	-	-	2	-	2	2
Pseudocloeon ephippiatum	-	-	-	-	-	-
Pseudocloeon frondale	-	-	-	-	-	-
Pseudocloeon propinquum	-	-	-	-	-	-
Pseudolimnophila	-	-	1	-	-	-
Psychodidae	-	-	1	1	-	-
Pteronarcys dorsata	-	-	-	-	-	-
Pyralidae	-	-	-	-	-	-
Rheocricotopus robacki	-	-	-	-	-	-
Rheotanytarsus	-	-	-	-	-	-
Rheotanytarsus exiguus grp.	20	20	2	-	3	2
Rheotanytarsus pellucidus	-	-	2	-	1	-
Rhyncholimnochares	-	-	-	-	-	-
Robackia claviger	-	-	-	-	2	-
Serratella deficiens	-	-	-	-	-	-
Sialis	-	-	-	-	-	-
Simulium	1	1	3	2	-	-
Simulium jonesi	-	-	-	-	-	-
Sisyra	-	-	-	-	-	-
Slavina appendiculata	-	-	-	-	-	-
Sperchon	-	-	-	-	-	-
Sperchonopsis	-	-	-	-	-	-
Sperchopsis	1	-	-	-	-	-
Sperchopsis tessellatus	-	-	-	-	-	-
Sphaeriidae(mollusca)	-	-	2	5	2	1
Spirosperma	-	-	-	-	-	-
Staphylinidae	-	-	-	-	-	-
Stelechomyia perpulchra	1	-	-	-	-	-
Stempellina	-	-	-	-	-	-
Stempellinella	-	-	-	-	-	-
Stempellinella fimbriata	-	-	-	-	-	-
Stempellinella leptocelloides	-	-	-	-	-	-
Stenacron	-	-	1	-	-	-
Stenacron interpunctatum	-	-	-	-	-	-
Stenelmis	3	2	-	1	27	27
Stenochironomus	1	3	1	1	1	2
Stenus	-	-	-	-	-	-
Stephensoniana trivandrana	-	-	-	-	-	-
Stratiomyidae	-	-	-	-	-	-
Sympetrum	-	-	-	-	-	-
Tabanidae	-	-	1	1	-	-
Taeniopteryx	-	-	-	-	-	-
Tanytarsus	-	-	-	-	-	-
Tanytarsus sp. a epler	2	2	-	-	-	-
Tanytarsus sp. c epler	4	1	-	-	-	-
Tanytarsus sp. d epler	-	-	-	-	-	1

As Calculated / STORET station ->	22020093	22020093	GAD106GS	GAD106GS	NUTREF001	NUTREF001
Sample date ->	6/13/2008	6/13/2008	6/13/2008	6/13/2008	6/10/2008	6/10/2008
Taxon Name / SampleID/BenthID ->	65026/40261/ Rep 1	65026/40261/ Rep 2	65028/40263/ Rep 1	65028/40263/ Rep 2	65029/40264/ Rep 1	65029/40264/ Rep 2
Tanytarsus sp. e epler	-	-	-	-	-	-
Tanytarsus sp. f epler	-	-	-	-	-	-
Tanytarsus sp. l epler	-	-	-	-	1	-
Tanytarsus sp. m epler	1	-	1	-	1	1
Tanytarsus sp. n epler	-	-	1	1	-	-
Tanytarsus sp. o epler	-	-	-	-	-	-
Tanytarsus sp. p epler	-	-	-	-	-	-
Tanytarsus sp. s epler	-	-	-	-	-	-
Tanytarsus sp. t epler	-	-	-	-	-	-
Tanytarsus sp. y epler	-	-	-	-	-	-
Thienemanniella	-	-	-	-	-	-
Thienemanniella lobapodema	-	-	-	-	-	-
Thienemanniella similis	-	-	-	-	-	-
Thienemanniella xena	-	-	-	-	-	-
Thienemannimyia grp.	7	-	3	6	10	1
Tipula	-	-	-	-	-	-
Tipula caloptera	-	-	-	-	-	-
Tipulidae	-	-	-	-	1	-
Torrenticola	-	-	-	-	-	-
Triaenodes	-	-	3	6	7	7
Triaenodes ignitus	-	-	-	-	-	-
Triaenodes perna/helo	-	-	-	-	-	-
Tribelos	-	-	-	-	1	-
Tribelos fuscicornis	-	-	-	-	-	-
Tribelos jucundum	-	-	1	1	-	-
Tricorythodes albilineatus	-	-	-	-	-	-
Tubificidae	-	1	-	-	-	-
Tvetenia	-	-	1	-	-	-
Tvetenia vitracies	-	-	-	-	-	-
Vertigo	-	-	-	-	-	-
Viviparus georgianus	-	-	-	-	-	-
Xenochironomus xenolabis	-	-	-	-	1	-
Xestochironomus	-	-	-	-	-	-
Xylotopus par	-	-	-	-	-	-
Zavreliella marmorata	-	-	-	-	-	-
Zavrelimyia sp. a epler	-	-	-	-	-	-

As Calculated / STORET station ->	3545	3545	32030023	32030023	21010008	21010008
Sample date ->	7/9/2008	7/9/2008	7/24/2008	7/24/2008	7/16/2008	7/16/2008
Taxon Name / SampleID/BenthID ->	65291/40343/ Rep 1	65291/40343/ Rep 2	65292/40344/ Rep 1	65292/40344/ Rep 2	65293/40345/ Rep 1	65293/40345/ Rep 2
Ablabesmyia mallochi	-	-	-	1	1	1
Ablabesmyia rhamphe grp.	-	-	-	-	-	1
Acentrella	-	-	-	-	-	-
Acentrella parvula	-	-	-	-	-	-
Acerpenna pygmaea	-	-	-	-	-	-
Acroneuria	-	-	2	-	-	-
Acroneuria abnormis	-	-	-	-	-	-
Acroneuria lycorias	-	-	-	4	-	-
Agnetina annulipes	-	-	-	-	-	-
Allonais inaequalis	-	-	-	-	-	-
Amnicola	-	-	-	-	-	-
Amphipoda	-	-	-	-	-	1
Ancylidae	-	-	-	1	-	-
Ancyronyx variegatus	1	-	7	4	-	-
Anisocentropus pyraloides	-	1	-	-	-	-
Apedilum	-	-	-	-	-	-
Argia	-	-	-	-	-	-
Argia fumipennis	-	-	-	-	-	-
Argia tibialis	-	-	-	-	-	-
Arrenurus	-	-	-	-	-	-
Asioplax	-	-	-	-	3	6
Atherix	-	-	2	1	-	-
Atractides	-	-	-	-	-	-
Atrichopogon	-	-	-	-	-	-
Aulodrilus pigueti	-	-	-	-	-	-
Baetidae	-	-	-	-	-	-
Baetis intercalaris	-	-	-	-	-	-
Baetisca becki	-	-	-	-	-	-
Baetisca rogersi	-	-	1	-	-	-
Beardius	-	-	-	-	-	-
Berosus	-	-	-	-	2	-
Bivalvia	-	-	-	-	1	-
Boyeria vinosa	-	-	-	-	-	-
Brachycentrus chelatus	-	1	-	-	-	-
Brachycentrus numerosus	-	-	-	-	-	-
Branchiobdellidae	-	-	-	-	-	-
Bratislavia unidentata	-	-	-	-	-	-
Brillia	-	-	-	-	-	-
Caecidotea	14	15	-	-	1	3
Caenis	-	-	-	-	-	-
Caenis diminuta	-	-	-	-	-	-
Caenis eglinensis	-	-	-	-	-	-
Caenis hilaris	-	-	-	-	-	-
Callibaetis	-	-	-	-	-	-
Callibaetis floridanus	-	-	-	-	-	-
Calopterygidae	-	-	-	-	-	-
Calopteryx	-	-	3	1	-	-
Cambaridae	-	-	3	5	-	-
Campeloma	-	-	-	-	-	-
Cecidomyiidae	-	1	-	-	-	-

As Calculated / STORET station ->	3545	3545	32030023	32030023	21010008	21010008
Sample date ->	7/9/2008	7/9/2008	7/24/2008	7/24/2008	7/16/2008	7/16/2008
	65291/40343/	65291/40343/	65292/40344/	65292/40344/	65293/40345/	65293/40345/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Celina	-	-	-	-	-	-
Centroptilum triangulifer	-	-	-	-	-	-
Ceraclea	-	-	-	-	-	-
Ceratopogonidae	-	-	-	-	1	-
Cernotina	-	-	-	-	-	-
Chauliodes	-	-	-	-	-	-
Cheumatopsyche	4	2	1	3	3	3
Chimarra	3	-	5	5	10	13
Chironomus	-	-	-	-	-	-
Choroterpes basalis	-	-	-	-	-	-
Chrysomelidae	-	-	-	-	-	-
Cladotanytarsus	-	-	-	1	-	-
Cladotanytarsus cf. daviesi	-	-	-	-	-	-
Cladotanytarsus sp. d epler	-	-	-	-	-	-
Cladotanytarsus sp. f epler	-	-	-	-	-	-
Cladotanytarsus viridiventris	-	-	-	-	-	-
Clathrosperchon	-	-	-	-	-	-
Climacia areolaris	-	-	-	-	-	-
Clinotanypus	-	-	-	-	-	-
Coenagrionidae	2	5	1	3	-	-
Corbicula fluminea	-	-	-	-	-	-
Corydalidae	-	-	-	-	-	-
Corydalus cornutus	-	1	3	8	4	1
Corynoneura	-	-	-	-	-	-
Crangonyx	-	4	-	-	-	-
Cricotopus	-	-	1	2	-	1
Cricotopus bicinctus	-	-	-	-	-	-
Cricotopus or orthocladius	-	-	-	-	-	3
Cryptochironomus	-	-	-	-	-	-
Cryptotendipes	-	-	-	-	-	-
Curculionidae	-	-	-	-	-	-
Cyrnellus fraternus	-	-	-	-	-	-
Dasyhelea	-	-	-	-	-	-
Dero	-	-	-	-	-	-
Dero digitata complex	-	-	-	-	-	-
Dero flabelliger	-	-	-	-	-	-
Dero furcata	-	-	-	-	-	-
Dero pectinata	-	-	-	-	-	-
Desmopachria	-	-	-	-	-	-
Desserobdella phalera	-	-	-	-	-	-
Dicrotendipes	-	-	-	-	1	-
Dicrotendipes modestus	-	-	-	-	-	-
Dicrotendipes neomodestus	-	-	-	-	-	1
Dicrotendipes simpsoni	-	-	-	-	-	-
Dicrotendipes sp. a epler	-	-	-	-	-	-
Dineutus	-	-	1	-	-	-
Diplectrona	-	-	-	-	-	-
Djalmabatista pulcher	-	-	-	-	-	-
Dryopidae	-	-	-	-	-	-
Dubiraphia vittata	1	1	2	-	-	2

As Calculated / STORET station ->	3545	3545	32030023	32030023	21010008	21010008
Sample date ->	7/9/2008	7/9/2008	7/24/2008	7/24/2008	7/16/2008	7/16/2008
Taxon Name / SampleID/BenthID ->	65291/40343/ Rep 1	65291/40343/ Rep 2	65292/40344/ Rep 1	65292/40344/ Rep 2	65293/40345/ Rep 1	65293/40345/ Rep 2
Dytiscidae	-	-	-	-	-	-
Eclipidrilus	1	-	-	-	-	-
Eclipidrilus palustris	-	-	-	-	-	-
Ectopria	-	-	8	1	-	-
Ectopria thoracica	1	-	-	-	-	-
Einfeldia sp. a epler	-	-	-	-	-	-
Elimia	-	-	-	-	-	-
Elmidae	-	-	-	-	-	-
Enallagma	-	-	-	-	-	-
Enallagma coecum	-	-	-	-	-	-
Enchytraeidae	-	-	-	-	-	-
Endotribelos hesperium	-	-	-	-	-	-
Enochrus	-	-	-	-	-	-
Epicordulia princeps regina	-	-	-	-	-	-
Eurylophella doris	-	-	-	-	-	-
Ferrissia	-	-	-	-	-	-
Gastropoda	-	-	1	-	-	-
Geayia	-	-	1	3	-	-
Gerridae	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-
Goeldichironomus	-	-	-	-	-	-
Goeldichironomus cf. natans	-	-	-	-	-	-
Goeldichironomus holoprasinus	-	-	-	-	-	-
Gomphidae	1	-	2	-	-	-
Gomphus	-	-	-	-	-	-
Gonielmis dietrichi	3	5	-	-	-	-
Gyrinidae	-	-	-	-	-	-
Gyrinus	-	-	-	-	-	-
Haemonais waldvogeli	-	-	-	-	-	-
Hagenius brevistylus	-	-	-	-	-	-
Haitia	-	-	-	-	-	-
Hayesomyia senata	2	6	-	1	-	-
Helichus	-	-	-	-	-	-
Helichus lithophilus	-	-	-	-	-	-
Helobdella stagnalis	-	-	-	-	-	-
Helobdella triserialis	-	-	-	-	-	-
Hemerodromia	-	1	2	4	-	-
Heptageniidae	-	-	-	-	-	-
Hetaerina	-	-	-	-	-	-
Hetaerina titia	-	-	-	-	-	-
Hexagenia	-	-	-	-	-	-
Hexatoma	-	-	-	2	-	-
Hirudinea	-	-	-	-	-	-
Hyalella azteca	-	-	-	-	-	-
Hydraena	-	-	-	-	-	-
Hydrobiidae	-	-	-	-	-	-
Hydrodroma	-	-	-	-	-	-
Hydrometra	-	-	-	-	-	-
Hydrophilidae	-	-	-	-	-	1
Hydropsyche	5	2	5	4	37	54

As Calculated / STORET station ->	3545	3545	32030023	32030023	21010008	21010008
Sample date ->	7/9/2008	7/9/2008	7/24/2008	7/24/2008	7/16/2008	7/16/2008
	65291/40343/	65291/40343/	65292/40344/	65292/40344/	65293/40345/	65293/40345/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Hydropsyche incommoda	-	-	-	-	-	-
Hydropsyche mississippiensis	-	-	-	-	-	-
Hydroptila	32	38	6	11	17	26
Hydrovatus	-	-	-	-	-	-
Hygrobates	-	-	-	-	-	-
Ischnura	-	-	-	-	-	-
Isonychia	-	2	-	-	-	-
Kiefferulus	-	-	-	-	-	-
Koenikea	-	-	-	-	-	-
Krendowskia	-	-	-	-	-	-
Labrundinia	-	-	-	-	-	-
Labrundinia becki	-	-	-	-	-	-
Labrundinia johannseni	-	-	-	-	-	-
Labrundinia pilosella	-	-	-	-	-	-
Labrundinia sp. 3 nr. virescens	-	-	-	-	-	-
Laccophilus	-	-	1	-	-	-
Laevapex	-	-	-	-	-	-
Larsia	-	-	-	-	-	-
Larsia decolorata	-	-	-	-	-	-
Lauterborniella agrayloides	-	-	-	-	-	-
Lebertia	1	-	-	-	3	1
Lepidoptera	-	-	-	-	-	-
Lepidostoma	-	-	-	-	-	-
Leptophlebiidae	-	-	2	1	-	-
Leuctra	3	-	4	7	-	-
Libellulidae	-	-	-	-	-	1
Limnesia	-	-	-	-	-	-
Limnodrilus hoffmeisteri	-	-	-	-	-	-
Lioporeus	-	-	-	-	-	-
Lirceus	-	-	-	-	-	-
Lopescladius	-	-	-	-	-	-
Lumbriculus variegatus	-	-	-	-	-	-
Lymnaeidae	-	-	-	-	-	-
Lype diversa	-	-	-	-	-	-
Maccaffertium	4	4	-	-	-	-
Maccaffertium exiguum	-	-	-	-	-	-
Maccaffertium smithae	-	-	5	4	-	-
Macromia	-	-	-	2	-	-
Macromia illinoiensis georgina	-	-	-	-	-	-
Macronychus glabratus	-	-	-	-	-	-
Macrostemum carolina	-	-	-	-	-	-
Mayatrichia ayama	1	-	-	-	-	-
Megistocera	-	-	-	-	-	-
Mesonoterus	-	-	-	-	-	-
Mesovelia	-	-	-	-	-	-
Micrasema	-	-	-	-	-	-
Microcylloepus pusillus	-	-	2	-	4	3
Micromenetus	-	-	-	-	-	-
Micromenetus dilatatus avus	-	-	-	-	-	-
Micropsectra	-	-	-	-	-	-

As Calculated / STORET station ->	3545	3545	32030023	32030023	21010008	21010008
Sample date ->	7/9/2008	7/9/2008	7/24/2008	7/24/2008	7/16/2008	7/16/2008
Taxon Name / SampleID/BenthID ->	65291/40343/ Rep 1	65291/40343/ Rep 2	65292/40344/ Rep 1	65292/40344/ Rep 2	65293/40345/ Rep 1	65293/40345/ Rep 2
Microtendipes	-	-	-	-	-	-
Microtendipes pedellus grp.	1	2	-	-	-	-
Microtendipes rydalensis grp.	-	-	-	-	-	-
Microvelia	-	-	-	-	-	-
Mideopsis	-	-	-	-	-	-
Momonia	-	-	-	-	-	-
Monopelopia	-	-	-	-	-	-
Mooreobdella	-	-	-	-	-	-
Naididae	-	-	-	-	-	-
Nais communis complex	-	-	1	-	-	-
Nais(animal)	-	-	-	-	-	-
Nanocladius	-	-	-	-	-	-
Nectopsyche	1	-	-	-	-	-
Nectopsyche exquisita	-	-	-	-	-	-
Nectopsyche pavida	-	-	1	2	-	-
Neoephemera	-	-	-	-	-	-
Neoperla	-	-	3	1	-	-
Neoplasta	-	-	-	-	-	-
Neoplea	-	-	-	-	-	-
Neoporus	-	-	-	-	-	-
Neotrichia	-	-	-	-	-	-
Neureclipsis	-	-	-	-	-	-
Neureclipsis crepuscularis	-	-	-	-	-	-
Neurocordulia	-	-	-	-	-	-
Neurocordulia alabamensis	-	1	-	-	-	-
Nigronia	-	-	-	-	-	-
Nigronia serricornis	-	-	1	-	-	-
Nilotanypus americanus	-	-	-	1	-	-
Nilotanypus fimbriatus	-	-	-	-	-	-
Nilothauma	-	1	-	-	-	-
Notomicrus nanulus	-	-	-	-	-	-
Nyctiophylax	-	-	-	-	-	-
Oecetis	-	-	4	3	-	-
Oecetis avara	-	-	-	-	2	-
Oecetis cinerascens	-	-	-	-	-	-
Oecetis georgia	2	2	-	-	-	-
Oecetis sphyra/morsei	5	1	-	-	-	-
Ora/scirtes	1	-	-	-	-	-
Oribatida	-	-	-	-	-	-
Ormosia	-	-	-	-	-	-
Orthocladius annectens	-	-	-	-	-	-
Orthotrichia	-	-	-	-	-	-
Oxus	-	-	-	-	-	-
Oxyethira	2	1	-	-	-	-
Pachydiplax longipennis	-	-	-	-	-	-
Palaemonetes	-	-	-	-	-	-
Palpomyia/bezzia grp.	-	1	-	-	-	-
Parachaetocladius abnobaeus	-	-	1	1	-	-
Parachironomus	-	-	-	-	-	-
Parachironomus chaetoalus complex	-	-	-	-	-	-

As Calculated / STORET station ->	3545	3545	32030023	32030023	21010008	21010008
Sample date ->	7/9/2008	7/9/2008	7/24/2008	7/24/2008	7/16/2008	7/16/2008
	65291/40343/	65291/40343/	65292/40344/	65292/40344/	65293/40345/	65293/40345/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Parachironomus supparilis	-	-	-	-	-	-
Paracladopelma	-	-	-	-	-	-
Paracymus	-	-	-	-	-	-
Parakiefferiella sp. b epler	-	-	-	-	-	-
Parakiefferiella sp. f epler	-	-	-	-	-	-
Paralauterborniella nigrohalterale	-	-	-	-	-	-
Paraleptophlebia volitans	5	7	-	-	-	-
Paramerina	-	-	-	-	-	-
Parametriocnemus	1	-	-	-	-	-
Paratanytarsus	-	-	1	-	-	-
Paratanytarsus dissimilis	-	-	-	-	-	-
Paratanytarsus quadratus	-	-	-	-	-	-
Paratendipes subaequalis	-	-	-	-	-	-
Pelonomus obscurus	-	-	-	-	-	-
Peltodytes	-	-	-	-	-	-
Peltodytes dietrichi	-	-	-	-	-	-
Pentaneura inconspicua	-	-	-	-	-	-
Perlesta placida complex	-	-	-	-	-	-
Perlinella drymo	-	-	-	-	-	-
Phaenopsectra flavipes	-	-	-	-	-	-
Phylocentropus	-	-	-	-	-	-
Physa	-	-	-	-	-	-
Physidae	-	-	-	-	-	-
Pilaria	-	-	-	-	-	-
Placobdella	1	-	-	-	-	-
Planorbella	-	-	-	-	-	-
Planorbidae	-	-	-	-	-	-
Platyhelminthes	-	1	-	-	-	-
Plauditus	2	2	-	1	-	1
Plauditus bimaculatus	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-
Polycentropodidae	-	-	-	-	-	-
Polycentropus	-	-	-	-	-	-
Polypedilum aviceps	-	-	3	1	-	-
Polypedilum fallax	-	-	-	-	-	-
Polypedilum flavum	1	2	8	13	16	13
Polypedilum halterale grp.	-	-	-	-	-	-
Polypedilum illinoense grp.	-	-	-	2	2	3
Polypedilum scalaenum grp.	1	-	4	7	-	-
Polypedilum sp. a epler	-	-	-	-	-	-
Polypedilum trigonus	-	-	-	-	-	-
Polypedilum tritum	-	-	-	-	-	-
Potthastia	-	-	-	-	-	-
Potthastia longimana	-	-	-	-	-	-
Pristina	-	-	-	-	-	-
Procambarus	2	2	-	-	-	-
Procladius	-	-	-	-	-	-
Procloeon	-	-	-	-	-	-
Progomphus	-	-	-	-	-	-
Progomphus obscurus	-	-	-	-	-	-

As Calculated / STORET station ->	3545	3545	32030023	32030023	21010008	21010008
Sample date ->	7/9/2008	7/9/2008	7/24/2008	7/24/2008	7/16/2008	7/16/2008
Taxon Name / SampleID/BenthID ->	65291/40343/ Rep 1	65291/40343/ Rep 2	65292/40344/ Rep 1	65292/40344/ Rep 2	65293/40345/ Rep 1	65293/40345/ Rep 2
Promoresia tardella	-	-	2	-	-	-
Prostoma	-	-	-	-	-	-
Psectrocladius	-	1	-	-	-	-
Pseudochironomus	-	-	-	-	5	-
Pseudocloeon	4	4	-	-	4	1
Pseudocloeon ephippiatum	-	-	-	-	-	-
Pseudocloeon frondale	-	-	-	-	-	-
Pseudocloeon propinquum	-	-	-	-	-	-
Pseudolimnophila	-	-	-	-	-	-
Psychodidae	-	-	-	-	-	-
Pteronarcys dorsata	-	-	-	-	-	-
Pyralidae	-	-	-	-	-	-
Rheocricotopus robacki	-	-	-	-	-	-
Rheotanytarsus	-	-	-	-	-	-
Rheotanytarsus exiguus grp.	1	1	14	4	7	5
Rheotanytarsus pellucidus	-	-	-	-	-	-
Rhyncholimnochares	-	-	-	-	-	-
Robackia claviger	-	-	-	-	-	-
Serratella deficiens	-	-	-	-	-	-
Sialis	-	-	-	-	-	-
Simulium	-	1	-	-	6	2
Simulium jonesi	-	-	-	-	-	-
Sisyra	-	-	-	-	-	-
Slavina appendiculata	-	-	-	-	-	-
Sperchon	-	-	-	-	-	1
Sperchonopsis	-	-	-	-	-	-
Sperchopsis	-	-	-	-	-	-
Sperchopsis tessellatus	-	-	-	-	-	-
Sphaeriidae(mollusca)	-	-	-	-	-	-
Spirosperma	1	-	-	-	-	-
Staphylinidae	-	-	-	-	-	-
Stelechomyia perpulchra	-	-	1	2	-	-
Stempellina	-	-	-	-	-	-
Stempellinella	-	-	-	-	-	-
Stempellinella fimbriata	-	-	-	-	-	-
Stempellinella leptocelloides	-	-	-	-	-	-
Stenacron	-	-	-	-	-	-
Stenacron interpunctatum	-	-	-	-	-	-
Stenelmis	7	4	11	11	-	1
Stenochironomus	-	-	7	4	-	-
Stenus	-	-	-	-	-	-
Stephensoniana trivandrana	-	-	-	-	-	-
Stratiomyidae	-	-	-	-	-	-
Sympetrum	-	-	-	-	-	-
Tabanidae	-	-	-	-	-	-
Taeniopteryx	-	-	-	-	-	-
Tanytarsus	-	-	-	-	-	-
Tanytarsus sp. a epler	1	1	-	-	-	-
Tanytarsus sp. c epler	1	-	-	-	1	-
Tanytarsus sp. d epler	-	-	2	2	-	-

As Calculated / STORET station ->	3545	3545	32030023	32030023	21010008	21010008
Sample date ->	7/9/2008	7/9/2008	7/24/2008	7/24/2008	7/16/2008	7/16/2008
Taxon Name / SampleID/BenthID ->	65291/40343/ Rep 1	65291/40343/ Rep 2	65292/40344/ Rep 1	65292/40344/ Rep 2	65293/40345/ Rep 1	65293/40345/ Rep 2
Tanytarsus sp. e epler	-	-	-	-	-	-
Tanytarsus sp. f epler	-	-	-	-	-	-
Tanytarsus sp. l epler	-	1	-	-	-	-
Tanytarsus sp. m epler	-	-	-	-	-	-
Tanytarsus sp. n epler	-	-	-	-	-	-
Tanytarsus sp. o epler	-	-	-	-	-	-
Tanytarsus sp. p epler	-	-	-	-	-	-
Tanytarsus sp. s epler	-	-	-	-	-	-
Tanytarsus sp. t epler	-	-	-	-	-	-
Tanytarsus sp. y epler	-	-	-	-	-	-
Thienemanniella	-	-	-	-	-	-
Thienemanniella lobapodema	-	-	-	-	-	-
Thienemanniella similis	-	-	-	-	-	-
Thienemanniella xena	-	-	-	-	-	-
Thienemannimyia grp.	8	5	3	4	2	2
Tipula	-	-	-	-	-	-
Tipula caloptera	-	-	-	-	-	-
Tipulidae	-	-	1	-	-	-
Torrenticola	-	-	-	-	-	-
Triaenodes	1	1	-	-	-	-
Triaenodes ignitus	-	-	-	-	3	-
Triaenodes perna/helo	-	-	-	-	-	-
Tribelos	-	-	-	-	-	-
Tribelos fuscicornis	-	-	-	-	1	1
Tribelos jucundum	1	-	-	-	-	-
Tricorythodes albilineatus	5	8	2	1	2	4
Tubificidae	-	-	-	1	-	1
Tvetenia	-	-	-	-	-	-
Tvetenia vitracies	12	10	-	4	2	3
Vertigo	-	-	-	-	-	-
Viviparus georgianus	-	-	-	-	-	-
Xenochironomus xenolabis	-	-	-	-	-	-
Xestochironomus	-	-	-	-	-	-
Xylotopus par	-	-	-	-	-	-
Zavreliella marmorata	-	-	-	-	-	-
Zavrelimyia sp. a epler	-	-	-	-	-	-

As Calculated / STORET station ->	3546	3546	3549	3549	22050083	22050083
Sample date ->	7/9/2008	7/9/2008	7/10/2008	7/10/2008	8/12/2008	8/12/2008
	65296/40348/	65296/40348/	65316/40349/	65316/40349/	65379/40364/	65379/40364/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Ablabesmyia mallochi	4	5	-	-	1	-
Ablabesmyia rhamphe grp.	1	1	-	2	-	-
Acentrella	-	-	-	-	-	-
Acentrella parvula	-	-	-	-	-	-
Acerpenna pygmaea	-	-	-	-	-	-
Acroneuria	1	-	-	-	-	-
Acroneuria abnormis	-	-	-	-	-	-
Acroneuria lycorias	-	-	-	-	-	-
Agnetina annulipes	-	-	-	-	-	-
Allonais inaequalis	-	-	-	-	-	-
Amnicola	-	-	-	-	-	-
Amphipoda	-	-	-	-	-	-
Ancylidae	-	-	-	-	2	-
Ancyronyx variegatus	-	-	-	1	-	-
Anisocentropus pyraloides	-	-	-	-	-	-
Apedilum	-	-	-	-	-	-
Argia	-	-	1	1	-	4
Argia fumipennis	-	-	-	-	-	-
Argia tibialis	-	-	-	-	-	-
Arrenurus	-	-	-	-	2	2
Asioplax	-	-	-	-	-	-
Atherix	-	-	-	-	-	-
Atractides	-	-	-	-	-	-
Atrichopogon	2	-	-	-	-	1
Aulodrilus pigueti	-	-	-	-	-	-
Baetidae	-	-	-	4	-	-
Baetis intercalaris	1	2	-	-	-	-
Baetisca becki	-	-	-	-	-	-
Baetisca rogersi	-	-	-	-	-	-
Beardius	-	-	-	-	-	-
Berosus	-	-	-	-	-	-
Bivalvia	-	-	-	-	-	-
Boyeria vinosa	-	-	-	-	-	-
Brachycentrus chelatus	-	-	-	-	-	-
Brachycentrus numerosus	-	2	-	-	-	-
Branchiobdellidae	-	-	-	-	-	-
Bratislavia unidentata	-	-	-	-	-	-
Brillia	-	-	-	-	-	-
Caecidotea	-	-	-	-	-	-
Caenis	5	2	-	1	-	-
Caenis diminuta	-	-	-	-	-	-
Caenis eglinensis	-	-	-	-	-	-
Caenis hilaris	-	-	-	-	-	-
Callibaetis	-	-	-	-	-	-
Callibaetis floridanus	-	-	-	-	6	5
Calopterygidae	-	-	-	-	-	-
Calopteryx	-	-	-	-	-	-
Cambaridae	-	2	-	-	-	-
Campeloma	-	-	-	-	-	-
Cecidomyiidae	-	-	-	-	-	-

As Calculated / STORET station ->	3546	3546	3549	3549	22050083	22050083
Sample date ->	7/9/2008	7/9/2008	7/10/2008	7/10/2008	8/12/2008	8/12/2008
Taxon Name / SampleID/BenthID ->	65296/40348/ Rep 1	65296/40348/ Rep 2	65316/40349/ Rep 1	65316/40349/ Rep 2	65379/40364/ Rep 1	65379/40364/ Rep 2
Celina	-	-	-	-	-	-
Centroptilum triangulifer	-	-	-	-	-	-
Ceraclea	-	-	-	-	-	-
Ceratopogonidae	-	1	1	-	-	-
Cernotina	-	-	-	-	1	-
Chauliodes	-	-	-	-	-	-
Cheumatopsyche	3	4	-	-	2	-
Chimarra	-	-	3	3	14	10
Chironomus	-	-	-	-	-	-
Choroterpes basalis	-	-	-	-	-	-
Chrysomelidae	-	-	-	-	-	-
Cladotanytarsus	-	-	-	-	-	-
Cladotanytarsus cf. daviesi	-	-	-	-	-	-
Cladotanytarsus sp. d epler	-	-	-	-	-	-
Cladotanytarsus sp. f epler	-	-	-	-	-	-
Cladotanytarsus viridiventris	-	-	-	-	-	-
Clathrosperchon	-	-	-	-	-	-
Climacia areolaris	-	-	-	-	-	-
Clinotanypus	-	-	-	-	-	-
Coenagrionidae	-	1	-	-	1	-
Corbicula fluminea	-	-	-	-	3	-
Corydalidae	-	-	-	-	-	-
Corydalus cornutus	3	2	-	-	-	-
Corynoneura	-	-	-	-	-	-
Crangonyx	-	-	-	-	-	-
Cricotopus	1	-	-	1	-	-
Cricotopus bicinctus	-	-	-	-	-	1
Cricotopus or orthocladius	1	1	-	-	-	-
Cryptochironomus	1	1	-	-	-	-
Cryptotendipes	1	1	-	-	-	-
Curculionidae	-	-	-	-	-	-
Cyrnellus fraternus	-	1	-	-	-	-
Dasyhelea	-	-	-	-	-	-
Dero	-	-	-	-	-	-
Dero digitata complex	-	-	-	-	-	-
Dero flabelliger	-	-	-	-	-	-
Dero furcata	-	-	-	-	-	-
Dero pectinata	-	-	-	-	-	-
Desmopachria	-	-	-	-	-	-
Desserobdella phalera	-	-	-	-	-	-
Dicrotendipes	-	-	-	-	-	-
Dicrotendipes modestus	1	1	-	-	-	-
Dicrotendipes neomodestus	2	2	-	-	2	-
Dicrotendipes simpsoni	-	-	-	-	-	-
Dicrotendipes sp. a epler	-	-	-	-	-	-
Dineutus	-	1	-	-	-	-
Diplectrona	-	-	-	-	-	-
Djalmabatista pulcher	-	-	-	-	-	-
Dryopidae	-	-	-	-	-	-
Dubiraphia vittata	-	2	-	-	5	2

As Calculated / STORET station ->	3546	3546	3549	3549	22050083	22050083
Sample date ->	7/9/2008	7/9/2008	7/10/2008	7/10/2008	8/12/2008	8/12/2008
	65296/40348/	65296/40348/	65316/40349/	65316/40349/	65379/40364/	65379/40364/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Dytiscidae	-	-	-	-	-	-
Eclipidrilus	-	-	-	-	-	-
Eclipidrilus palustris	-	-	-	-	-	-
Ectopria	-	-	-	-	-	-
Ectopria thoracica	1	1	-	-	-	-
Einfeldia sp. a epler	-	-	-	-	-	1
Elimia	2	-	-	-	18	22
Elmidae	-	-	-	-	-	-
Enallagma	-	-	-	-	-	-
Enallagma coecum	-	-	-	-	-	-
Enchytraeidae	-	1	-	-	-	-
Endotribelos hesperium	-	-	-	-	-	-
Enochrus	-	-	-	-	-	-
Epicordulia princeps regina	-	-	-	-	2	-
Eurylophella doris	-	-	-	-	-	-
Ferrissia	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-
Geayia	-	-	-	-	-	-
Gerridae	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-
Goeldichironomus	-	-	-	-	-	-
Goeldichironomus cf. natans	-	-	-	-	-	-
Goeldichironomus holoprasinus	-	-	-	-	-	-
Gomphidae	-	-	-	-	-	-
Gomphus	-	-	-	-	-	-
Gonielmis dietrichi	-	-	-	-	-	-
Gyrinidae	-	-	-	-	-	-
Gyrinus	-	-	-	-	-	-
Haemonais waldvogeli	-	-	-	-	-	-
Hagenius brevistylus	-	-	-	-	-	-
Haitia	-	-	-	-	-	-
Hayesomyia senata	-	-	-	-	-	-
Helichus	-	-	-	-	-	-
Helichus lithophilus	-	-	-	-	-	-
Helobdella stagnalis	-	-	-	-	-	-
Helobdella triserialis	-	-	-	-	-	-
Hemerodromia	1	-	1	2	-	-
Heptageniidae	4	5	-	-	-	1
Hetaerina	-	-	-	-	-	-
Hetaerina titia	1	-	-	-	-	-
Hexagenia	-	-	-	-	-	-
Hexatoma	-	-	-	-	-	-
Hirudinea	-	-	-	-	-	-
Hyalella azteca	-	-	-	-	3	4
Hydraena	-	-	-	-	-	-
Hydrobiidae	1	-	-	-	8	10
Hydrodroma	-	-	-	-	-	-
Hydrometra	-	-	-	-	-	-
Hydrophilidae	-	-	-	-	-	-
Hydropsyche	3	3	-	-	-	-

As Calculated / STORET station ->	3546	3546	3549	3549	22050083	22050083
Sample date ->	7/9/2008	7/9/2008	7/10/2008	7/10/2008	8/12/2008	8/12/2008
Taxon Name / SampleID/BenthID ->	65296/40348/ Rep 1	65296/40348/ Rep 2	65316/40349/ Rep 1	65316/40349/ Rep 2	65379/40364/ Rep 1	65379/40364/ Rep 2
Hydropsyche incommoda	-	-	87	68	-	-
Hydropsyche mississippiensis	-	-	10	15	-	-
Hydroptila	14	6	9	9	1	5
Hydrovatus	-	-	-	-	-	-
Hygrobates	-	-	-	-	-	-
Ischnura	-	-	-	-	-	-
Isonychia	4	2	-	-	-	-
Kiefferulus	-	-	-	-	-	-
Koenikea	-	-	-	-	-	-
Krendowskia	2	-	-	-	-	-
Labrundinia	1	-	-	-	-	-
Labrundinia becki	-	-	-	-	-	-
Labrundinia johannseni	-	-	-	-	-	1
Labrundinia pilosella	-	-	-	-	-	-
Labrundinia sp. 3 nr. virescens	-	-	-	-	-	-
Laccophilus	-	-	-	-	-	-
Laevapex	-	-	-	-	-	-
Larsia	-	-	-	-	-	-
Larsia decolorata	-	-	-	-	-	-
Lauterborniella agrayloides	-	-	-	-	-	-
Lebertia	1	1	-	-	-	-
Lepidoptera	-	-	-	-	-	1
Lepidostoma	-	-	-	-	-	-
Leptophlebiidae	1	-	-	-	-	-
Leuctra	-	-	-	-	-	-
Libellulidae	-	-	-	-	-	2
Limnesia	-	-	-	-	-	-
Limnodrilus hoffmeisteri	-	-	-	-	-	-
Lioporeus	-	-	-	-	-	-
Lirceus	-	-	-	-	-	-
Lopescladius	-	-	-	-	-	-
Lumbriculus variegatus	-	-	1	-	-	-
Lymnaeidae	-	-	-	-	1	-
Lype diversa	-	-	-	-	-	-
Maccaffertium	-	-	3	4	-	-
Maccaffertium exiguum	-	-	-	-	-	-
Maccaffertium smithae	-	-	-	-	-	-
Macromia	1	1	-	-	-	-
Macromia illinoiensis georgina	-	-	-	-	-	-
Macronychus glabratus	5	5	-	-	-	-
Macrostemum carolina	-	-	-	-	-	-
Mayatrichia ayama	-	-	-	-	-	-
Megistocera	-	-	-	-	-	-
Mesonoterus	-	-	-	-	-	-
Mesovelia	-	-	-	-	-	-
Micrasema	-	-	-	-	-	-
Microcylloepus pusillus	2	3	1	-	9	9
Micromenetus	-	-	-	-	-	-
Micromenetus dilatatus avus	-	-	-	-	-	-
Micropsectra	-	-	-	-	-	-

As Calculated / STORET station ->	3546	3546	3549	3549	22050083	22050083
Sample date ->	7/9/2008	7/9/2008	7/10/2008	7/10/2008	8/12/2008	8/12/2008
	65296/40348/	65296/40348/	65316/40349/	65316/40349/	65379/40364/	65379/40364/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Microtendipes	-	-	-	-	-	-
Microtendipes pedellus grp.	-	-	-	-	-	-
Microtendipes rydalensis grp.	-	-	-	-	-	-
Microvelia	-	-	-	-	-	-
Mideopsis	-	-	-	-	-	1
Momonia	-	-	-	-	-	-
Monopelopia	-	-	-	-	-	-
Mooreobdella	-	-	-	-	-	-
Naididae	-	-	-	-	-	-
Nais communis complex	-	-	-	-	-	-
Nais(animal)	-	1	-	-	-	-
Nanocladius	-	-	-	-	-	-
Nectopsyche	-	-	-	-	-	-
Nectopsyche exquisita	-	-	-	-	-	-
Nectopsyche pavida	-	-	-	-	-	-
Neoephemera	-	-	-	-	-	-
Neoperla	-	-	-	-	-	-
Neoplasta	-	-	-	-	-	-
Neoplea	-	-	-	-	-	-
Neoporus	-	-	-	-	-	-
Neotrichia	-	-	-	-	-	-
Neureclipsis	-	-	-	-	-	-
Neureclipsis crepuscularis	-	-	-	-	-	-
Neurocordulia	-	-	-	-	-	-
Neurocordulia alabamensis	-	-	-	-	-	-
Nigronia	-	-	-	-	-	-
Nigronia serricornis	-	-	-	-	-	-
Nilotanypus americanus	-	-	-	-	-	-
Nilotanypus fimbriatus	-	-	-	-	-	-
Nilothauma	-	-	-	-	-	-
Notomicrus nanulus	-	-	-	-	-	-
Nyctiophylax	-	-	-	-	-	-
Oecetis	-	5	-	-	-	-
Oecetis avara	-	-	-	-	-	-
Oecetis cinerascens	-	-	-	-	-	-
Oecetis georgia	-	-	-	-	-	-
Oecetis sphyra/morsei	-	-	1	1	-	-
Ora/scirtes	-	-	-	-	-	-
Oribatida	-	-	-	-	-	-
Ormosia	-	-	-	-	-	-
Orthocladius annectens	-	-	-	-	-	-
Orthotrichia	-	-	-	-	1	3
Oxus	-	-	-	-	-	-
Oxyethira	-	-	-	-	-	-
Pachydiplax longipennis	-	-	-	-	-	-
Palaemonetes	-	-	-	-	-	-
Palpomyia/bezzia grp.	-	-	-	-	-	-
Parachaetocladius abnobaeus	-	-	-	-	-	-
Parachironomus	-	-	-	-	-	-
Parachironomus chaetoalus complex	-	-	-	-	-	-

As Calculated / STORET station ->	3546	3546	3549	3549	22050083	22050083
Sample date ->	7/9/2008	7/9/2008	7/10/2008	7/10/2008	8/12/2008	8/12/2008
Taxon Name / SampleID/BenthID ->	65296/40348/ Rep 1	65296/40348/ Rep 2	65316/40349/ Rep 1	65316/40349/ Rep 2	65379/40364/ Rep 1	65379/40364/ Rep 2
Parachironomus supparilis	-	-	-	-	-	-
Paracladopelma	-	1	-	-	-	-
Paracymus	-	-	-	-	-	-
Parakiefferiella sp. b epler	-	-	-	-	-	-
Parakiefferiella sp. f epler	-	-	-	-	-	-
Paralauterborniella nigrohalterale	-	-	-	-	-	-
Paraleptophlebia volitans	-	-	-	-	-	-
Paramerina	-	-	-	-	-	-
Parametriocnemus	-	-	-	-	-	-
Paratanytarsus	-	-	-	-	3	1
Paratanytarsus dissimilis	-	-	-	-	-	-
Paratanytarsus quadratus	-	-	-	-	-	-
Paratendipes subaequalis	-	-	-	-	-	-
Pelonomus obscurus	-	-	-	-	1	-
Peltodytes	-	-	-	-	-	-
Peltodytes dietrichi	-	-	-	-	-	-
Pentaneura inconspicua	-	1	-	-	2	1
Perlesta placida complex	-	-	-	-	-	-
Perlinella drymo	-	-	-	-	-	-
Phaenopsectra flavipes	-	-	-	-	-	-
Phylocentropus	-	-	-	-	-	-
Physa	1	1	-	-	3	1
Physidae	-	-	-	-	-	-
Pilaria	-	-	-	-	-	-
Placobdella	-	-	-	-	-	-
Planorbella	-	-	-	-	3	-
Planorbidae	-	1	-	-	-	1
Platyhelminthes	1	-	-	-	-	-
Plauditus	-	-	-	-	-	-
Plauditus bimaculatus	2	2	-	-	-	-
Plecoptera	-	-	-	-	-	-
Polycentropodidae	-	-	-	-	-	-
Polycentropus	-	-	-	-	-	-
Polypedilum aviceps	-	1	-	-	-	-
Polypedilum fallax	-	-	-	-	-	-
Polypedilum flavum	17	23	8	18	2	7
Polypedilum halterale grp.	-	-	-	-	-	-
Polypedilum illinoense grp.	1	-	-	-	1	-
Polypedilum scalaenum grp.	-	-	1	1	-	-
Polypedilum sp. a epler	-	-	-	-	-	-
Polypedilum trigonus	-	-	-	-	-	-
Polypedilum tritum	-	-	-	-	-	-
Potthastia	-	-	-	-	-	-
Potthastia longimana	-	-	-	-	-	-
Pristina	-	-	-	-	-	-
Procambarus	-	-	-	-	-	-
Procladius	-	-	-	-	-	-
Procloeon	-	-	-	-	-	-
Progomphus	-	-	-	-	-	-
Progomphus obscurus	-	-	-	-	-	-

As Calculated / STORET station ->	3546	3546	3549	3549	22050083	22050083
Sample date ->	7/9/2008	7/9/2008	7/10/2008	7/10/2008	8/12/2008	8/12/2008
Taxon Name / SampleID/BenthID ->	65296/40348/ Rep 1	65296/40348/ Rep 2	65316/40349/ Rep 1	65316/40349/ Rep 2	65379/40364/ Rep 1	65379/40364/ Rep 2
Promoresia tardella	-	-	-	-	-	-
Prostoma	-	-	-	-	-	-
Psectrocladius	-	-	-	-	-	-
Pseudochironomus	3	-	-	-	-	-
Pseudocloeon	9	7	-	-	-	-
Pseudocloeon ephippiatum	-	-	-	-	-	-
Pseudocloeon frondale	-	-	-	-	-	-
Pseudocloeon propinquum	-	-	-	-	-	-
Pseudolimnophila	-	-	-	-	-	-
Psychodidae	-	-	-	-	-	-
Pteronarcys dorsata	-	-	-	-	-	-
Pyralidae	1	-	-	-	-	-
Rheocricotopus robacki	2	-	-	-	-	-
Rheotanytarsus	-	-	-	-	-	-
Rheotanytarsus exiguus grp.	8	5	1	6	-	1
Rheotanytarsus pellucidus	-	-	-	1	-	1
Rhyncholimnochares	-	-	-	-	-	-
Robackia claviger	1	-	-	-	-	-
Serratella deficiens	1	-	1	-	-	-
Sialis	-	-	-	-	-	-
Simulium	7	9	1	-	1	-
Simulium jonesi	-	-	-	-	-	-
Sisyra	-	-	-	-	-	-
Slavina appendiculata	-	-	-	-	-	-
Sperchon	-	-	-	1	-	-
Sperchonopsis	-	-	-	-	-	-
Sperchopsis	-	-	-	-	-	-
Sperchopsis tessellatus	-	-	-	-	-	-
Sphaeriidae(mollusca)	5	-	-	-	-	-
Spirosperma	-	-	-	-	-	-
Staphylinidae	-	-	-	-	-	-
Stelechomyia perpulchra	-	1	-	-	-	-
Stempellina	-	-	-	-	-	-
Stempellinella	-	-	-	-	-	-
Stempellinella fimbriata	-	-	-	-	-	-
Stempellinella leptocelloides	-	-	-	-	-	-
Stenacron	-	-	-	-	-	-
Stenacron interpunctatum	-	-	-	-	-	-
Stenelmis	4	5	2	1	-	2
Stenochironomus	1	3	1	-	1	-
Stenus	-	-	-	-	-	-
Stephensoniana trivandrana	-	-	-	-	-	-
Stratiomyidae	-	-	-	-	-	-
Sympetrum	-	-	-	-	-	-
Tabanidae	-	-	-	-	-	-
Taeniopteryx	-	-	-	-	-	-
Tanytarsus	-	-	-	-	-	-
Tanytarsus sp. a epler	2	-	-	-	-	-
Tanytarsus sp. c epler	-	2	-	-	1	1
Tanytarsus sp. d epler	-	-	-	-	-	-

As Calculated / STORET station ->	3546	3546	3549	3549	22050083	22050083
Sample date ->	7/9/2008	7/9/2008	7/10/2008	7/10/2008	8/12/2008	8/12/2008
Taxon Name / SampleID/BenthID ->	65296/40348/ Rep 1	65296/40348/ Rep 2	65316/40349/ Rep 1	65316/40349/ Rep 2	65379/40364/ Rep 1	65379/40364/ Rep 2
Tanytarsus sp. e epler	-	-	-	-	-	-
Tanytarsus sp. f epler	-	-	-	-	-	-
Tanytarsus sp. l epler	1	1	-	-	-	-
Tanytarsus sp. m epler	-	-	-	-	-	-
Tanytarsus sp. n epler	-	-	-	-	-	-
Tanytarsus sp. o epler	-	-	-	-	-	-
Tanytarsus sp. p epler	1	1	-	-	-	-
Tanytarsus sp. s epler	-	-	-	-	-	-
Tanytarsus sp. t epler	-	-	-	-	1	-
Tanytarsus sp. y epler	-	-	-	-	-	-
Thienemanniella	-	-	1	1	-	-
Thienemanniella lobapodema	-	-	-	-	-	-
Thienemanniella similis	-	-	-	-	-	-
Thienemanniella xena	-	-	-	-	-	-
Thienemannimyia grp.	-	1	1	-	-	-
Tipula	-	-	-	-	-	-
Tipula caloptera	-	-	-	-	-	-
Tipulidae	-	2	-	-	-	-
Torrenticola	-	-	-	-	-	-
Triaenodes	2	3	-	-	-	-
Triaenodes ignitus	-	-	-	-	-	-
Triaenodes perna/helo	-	-	-	-	-	-
Tribelos	-	-	-	-	-	-
Tribelos fuscicornis	-	-	-	2	-	-
Tribelos jucundum	-	-	-	-	-	-
Tricorythodes albilineatus	6	1	5	9	51	51
Tubificidae	1	2	-	-	-	-
Tvetenia	-	-	-	-	-	-
Tvetenia vitracies	-	1	-	-	-	-
Vertigo	-	-	-	-	-	-
Viviparus georgianus	-	-	-	-	-	-
Xenochironomus xenolabis	-	-	-	-	-	-
Xestochironomus	1	1	-	-	-	-
Xylotopus par	-	-	-	-	-	-
Zavreliella marmorata	-	-	-	-	3	1
Zavrelimyia sp. a epler	-	-	-	-	-	-

As Calculated / STORET station ->	22050040	22050040	CLA246GS	CLA246GS	23010464	23010464
Sample date ->	8/12/2008	8/12/2008	5/28/2008	5/28/2008	5/7/2008	5/7/2008
	65382/40367/	65382/40367/	65250/40368/	65250/40368/	64546/40384/	64546/40384/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Ablabesmyia mallochi	-	-	-	3	-	2
Ablabesmyia rhamphe grp.	5	1	1	-	-	-
Acentrella	-	-	-	-	-	-
Acentrella parvula	-	-	-	-	-	-
Acerpenna pygmaea	-	-	-	-	-	-
Acroneuria	-	-	-	-	-	-
Acroneuria abnormis	-	-	-	-	-	-
Acroneuria lycorias	-	-	-	-	-	-
Agnetina annulipes	-	-	-	-	-	-
Allonais inaequalis	-	-	-	-	-	-
Amnicola	-	-	-	-	-	-
Amphipoda	-	-	-	-	-	-
Ancylidae	5	3	8	9	-	-
Ancyronyx variegatus	-	-	2	-	-	-
Anisocentropus pyraloides	-	-	-	-	-	-
Apedilum	-	1	-	-	-	-
Argia	-	3	-	-	-	-
Argia fumipennis	-	-	-	-	-	-
Argia tibialis	-	-	-	-	-	-
Arrenurus	1	-	-	-	-	-
Asioplax	-	-	-	-	-	-
Atherix	-	-	-	-	-	-
Atractides	-	-	-	-	-	-
Atrichopogon	1	-	-	-	-	-
Aulodrilus pigueti	-	-	-	-	-	-
Baetidae	-	-	-	-	-	-
Baetis intercalaris	-	-	-	-	-	-
Baetisca becki	-	-	-	-	-	-
Baetisca rogersi	-	-	-	-	-	-
Beardius	-	-	-	-	-	-
Berosus	-	-	-	-	-	-
Bivalvia	-	-	-	-	-	-
Boyeria vinosa	-	-	-	-	-	-
Brachycentrus chelatus	-	-	-	-	-	-
Brachycentrus numerosus	-	-	-	-	-	-
Branchiobdellidae	-	-	-	-	-	-
Bratislavia unidentata	-	-	-	-	-	-
Brillia	-	-	-	-	-	-
Caecidotea	-	-	-	-	-	1
Caenis	64	40	-	-	47	36
Caenis diminuta	-	-	-	-	-	-
Caenis eglinensis	-	-	-	-	-	-
Caenis hilaris	-	-	-	-	-	-
Callibaetis	-	-	-	-	-	-
Callibaetis floridanus	-	-	-	-	1	1
Calopterygidae	-	-	1	-	-	-
Calopteryx	-	-	-	3	-	-
Cambaridae	-	-	-	1	2	1
Campeloma	-	-	-	-	-	-
Cecidomyiidae	-	-	-	-	-	-

As Calculated / STORET station ->	22050040	22050040	CLA246GS	CLA246GS	23010464	23010464
Sample date ->	8/12/2008	8/12/2008	5/28/2008	5/28/2008	5/7/2008	5/7/2008
	65382/40367/	65382/40367/	65250/40368/	65250/40368/	64546/40384/	64546/40384/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Celina	-	-	-	-	-	-
Centroptilum triangulifer	-	-	-	-	-	-
Ceraclea	-	-	-	-	-	-
Ceratopogonidae	-	2	1	1	-	-
Cernotina	-	-	1	1	-	-
Chauliodes	-	-	-	-	-	-
Cheumatopsyche	-	-	16	15	5	2
Chimarra	-	-	1	6	-	-
Chironomus	-	-	-	-	1	-
Choroterpes basalis	-	-	-	-	-	-
Chrysomelidae	-	-	-	-	-	-
Cladotanytarsus	-	-	-	-	-	-
Cladotanytarsus cf. daviesi	-	-	-	-	-	-
Cladotanytarsus sp. d epler	-	-	-	-	-	-
Cladotanytarsus sp. f epler	-	-	-	-	-	-
Cladotanytarsus viridiventris	-	-	-	-	-	-
Clathrosperchon	-	-	-	-	-	-
Climacia areolaris	-	-	-	-	-	-
Clinotanypus	1	-	-	-	-	-
Coenagrionidae	3	-	2	1	-	-
Corbicula fluminea	1	4	-	-	-	-
Corydalidae	-	-	-	-	-	-
Corydalus cornutus	-	-	-	-	-	-
Corynoneura	-	-	1	-	-	-
Crangonyx	-	-	-	-	-	-
Cricotopus	-	-	-	-	-	-
Cricotopus bicinctus	-	-	-	-	-	-
Cricotopus or orthocladius	-	-	-	-	-	-
Cryptochironomus	-	-	-	-	-	-
Cryptotendipes	-	-	-	-	-	-
Curculionidae	-	-	-	-	-	-
Cyrnellus fraternus	-	-	-	-	-	-
Dasyhelea	-	-	-	-	-	-
Dero	-	-	-	-	-	-
Dero digitata complex	-	-	-	-	-	-
Dero flabelliger	-	-	-	-	1	-
Dero furcata	-	-	-	-	-	-
Dero pectinata	-	-	-	2	-	-
Desmopachria	-	-	-	-	-	-
Desserobdella phalera	-	-	-	-	-	1
Dicrotendipes	-	-	-	-	-	-
Dicrotendipes modestus	2	1	-	-	-	-
Dicrotendipes neomodestus	-	-	-	-	-	-
Dicrotendipes simpsoni	-	-	-	-	1	-
Dicrotendipes sp. a epler	-	3	-	-	-	-
Dineutus	-	-	1	-	-	-
Diplectrona	-	-	-	-	-	-
Djalmabatista pulcher	-	-	-	-	-	-
Dryopidae	-	-	-	-	-	-
Dubiraphia vittata	25	29	-	-	-	-

As Calculated / STORET station ->	22050040	22050040	CLA246GS	CLA246GS	23010464	23010464
Sample date ->	8/12/2008	8/12/2008	5/28/2008	5/28/2008	5/7/2008	5/7/2008
	65382/40367/	65382/40367/	65250/40368/	65250/40368/	64546/40384/	64546/40384/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Dytiscidae	-	-	-	-	-	-
Eclipidrilus	-	-	-	-	-	-
Eclipidrilus palustris	-	-	-	-	-	-
Ectopria	-	-	-	-	-	-
Ectopria thoracica	-	-	-	-	-	-
Einfeldia sp. a epler	-	-	-	-	-	-
Elimia	-	-	-	-	-	-
Elmidae	-	-	-	-	-	-
Enallagma	-	-	-	-	3	3
Enallagma coecum	-	-	-	-	-	-
Enchytraeidae	-	-	-	-	-	-
Endotribelos hesperium	-	-	-	-	-	-
Enochrus	-	-	-	-	-	-
Epicordulia princeps regina	-	-	-	-	-	-
Eurylophella doris	-	-	-	-	-	-
Ferrissia	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-
Geayia	-	-	-	-	-	-
Gerridae	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-
Goeldichironomus	-	-	-	-	-	-
Goeldichironomus cf. natans	-	-	-	-	-	-
Goeldichironomus holoprasinus	-	-	-	-	-	-
Gomphidae	-	-	-	-	-	-
Gomphus	-	-	-	-	-	-
Gonielmis dietrichi	-	-	-	-	-	-
Gyrinidae	-	-	-	-	-	-
Gyrinus	-	-	-	-	-	-
Haemonais waldvogeli	-	-	-	-	-	-
Hagenius brevistylus	-	-	-	-	-	-
Haitia	-	-	-	-	-	-
Hayesomyia senata	-	-	-	-	-	-
Helichus	-	-	-	-	-	-
Helichus lithophilus	-	-	-	-	-	-
Helobdella stagnalis	-	-	-	-	5	5
Helobdella triserialis	-	-	-	-	-	-
Hemerodromia	-	-	2	4	-	-
Heptageniidae	4	2	-	-	-	-
Hetaerina	-	-	-	-	-	-
Hetaerina titia	-	-	-	-	-	-
Hexagenia	-	-	-	-	-	-
Hexatoma	-	-	-	-	-	-
Hirudinea	-	-	-	-	-	-
Hyalella azteca	-	-	-	-	51	68
Hydraena	-	-	1	-	-	-
Hydrobiidae	19	24	-	-	-	-
Hydrodroma	-	-	-	-	-	-
Hydrometra	-	-	-	-	-	-
Hydrophilidae	-	-	-	-	-	-
Hydropsyche	-	-	-	-	-	-

As Calculated / STORET station ->	22050040	22050040	CLA246GS	CLA246GS	23010464	23010464
Sample date ->	8/12/2008	8/12/2008	5/28/2008	5/28/2008	5/7/2008	5/7/2008
	65382/40367/	65382/40367/	65250/40368/	65250/40368/	64546/40384/	64546/40384/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Hydropsyche incommoda	-	-	-	-	-	-
Hydropsyche mississippiensis	-	-	-	-	-	-
Hydroptila	-	-	1	1	-	-
Hydrovatus	-	-	-	-	-	-
Hygrobates	-	-	-	-	-	-
Ischnura	-	-	-	-	-	1
Isonychia	-	-	-	-	-	-
Kiefferulus	-	-	-	-	-	-
Koenikea	-	-	-	-	-	-
Krendowskia	-	-	-	-	-	-
Labrundinia	1	-	-	-	-	-
Labrundinia becki	-	-	-	-	-	-
Labrundinia johannseni	-	-	-	-	-	-
Labrundinia pilosella	-	-	-	-	-	1
Labrundinia sp. 3 nr. virescens	-	-	-	-	-	-
Laccophilus	-	-	-	-	-	-
Laevapex	-	-	-	-	-	-
Larsia	-	-	-	-	-	-
Larsia decolorata	-	-	-	-	-	-
Lauterborniella agrayloides	-	-	-	-	-	-
Lebertia	-	-	-	-	-	-
Lepidoptera	-	-	2	-	-	-
Lepidostoma	-	-	-	-	-	-
Leptophlebiidae	-	-	1	1	-	-
Leuctra	-	-	5	2	-	-
Libellulidae	9	5	-	-	-	-
Limnesia	-	-	-	-	-	2
Limnodrilus hoffmeisteri	-	-	-	-	-	-
Lioporeus	-	-	-	-	-	-
Lirceus	-	-	-	-	-	-
Lopescladius	-	-	-	-	-	-
Lumbriculus variegatus	-	-	-	-	-	-
Lymnaeidae	-	-	-	-	-	-
Lype diversa	-	-	-	3	-	-
Maccaffertium	-	-	1	1	-	-
Maccaffertium exiguum	-	-	-	-	-	-
Maccaffertium smithae	-	-	-	-	-	-
Macromia	-	-	-	-	-	-
Macromia illinoiensis georgina	-	-	-	-	-	-
Macronychus glabratus	-	-	2	1	-	-
Macrostemum carolina	-	-	-	-	-	-
Mayatrichia ayama	-	-	-	-	-	-
Megistocera	-	-	-	-	-	-
Mesonoterus	-	-	-	-	-	-
Mesovelia	-	-	-	-	-	-
Micrasema	-	-	-	-	-	-
Microcylloepus pusillus	-	-	3	6	-	-
Micromenetus	-	-	-	-	-	-
Micromenetus dilatatus avus	-	-	-	-	-	-
Micropsectra	-	-	-	-	-	-

As Calculated / STORET station ->	22050040	22050040	CLA246GS	CLA246GS	23010464	23010464
Sample date ->	8/12/2008	8/12/2008	5/28/2008	5/28/2008	5/7/2008	5/7/2008
	65382/40367/	65382/40367/	65250/40368/	65250/40368/	64546/40384/	64546/40384/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Microtendipes	-	-	-	-	-	-
Microtendipes pedellus grp.	-	-	1	-	-	-
Microtendipes rydalensis grp.	-	-	-	-	-	-
Microvelia	-	-	1	-	-	-
Mideopsis	2	2	-	-	-	-
Momonia	-	-	-	-	-	-
Monopelopia	-	-	-	-	-	-
Mooreobdella	-	-	-	-	-	-
Naididae	-	4	-	-	-	-
Nais communis complex	-	-	-	-	-	-
Nais(animal)	-	-	-	-	-	-
Nanocladius	-	-	-	-	-	-
Nectopsyche	-	-	-	-	-	-
Nectopsyche exquisita	-	-	-	-	-	-
Nectopsyche pavida	-	-	-	-	-	-
Neoephemera	-	-	-	-	-	-
Neoperla	-	-	-	-	-	-
Neoplasta	-	-	-	-	-	-
Neoplea	-	-	-	-	-	-
Neoporus	4	4	-	-	-	1
Neotrichia	-	-	3	-	-	-
Neureclipsis	-	-	-	-	-	-
Neureclipsis crepuscularis	-	-	-	-	-	-
Neurocordulia	-	-	-	-	2	1
Neurocordulia alabamensis	-	-	-	-	-	-
Nigronia	-	-	-	-	-	-
Nigronia serricornis	-	-	-	-	-	-
Nilotanypus americanus	-	-	-	-	-	-
Nilotanypus fimbriatus	-	-	-	-	-	-
Nilothauma	-	-	-	1	-	-
Notomicrus nanulus	-	-	-	-	-	-
Nyctiophylax	-	-	-	-	-	-
Oecetis	-	-	9	-	1	3
Oecetis avara	-	-	-	-	-	-
Oecetis cinerascens	-	-	-	-	-	-
Oecetis georgia	-	-	-	8	-	-
Oecetis sphyra/morsei	-	-	-	-	-	-
Ora/scirtes	-	-	-	1	-	-
Oribatida	-	-	-	-	-	-
Ormosia	-	-	-	-	-	-
Orthocladius annectens	-	-	-	-	-	-
Orthotrichia	-	-	-	-	-	-
Oxus	-	-	-	-	-	-
Oxyethira	-	-	-	-	1	-
Pachydiplax longipennis	-	-	-	-	1	-
Palaemonetes	-	-	-	-	1	-
Palpomyia/bezzia grp.	-	-	-	-	-	-
Parachaetocladius abnobaeus	-	-	-	-	-	-
Parachironomus	-	-	-	-	-	-
Parachironomus chaetoalus complex	-	-	-	-	-	-

As Calculated / STORET station ->	22050040	22050040	CLA246GS	CLA246GS	23010464	23010464
Sample date ->	8/12/2008	8/12/2008	5/28/2008	5/28/2008	5/7/2008	5/7/2008
	65382/40367/	65382/40367/	65250/40368/	65250/40368/	64546/40384/	64546/40384/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Parachironomus supparilis	-	-	-	-	-	-
Paracladopelma	-	-	-	-	-	-
Paracymus	-	-	-	-	-	-
Parakiefferiella sp. b epler	-	-	-	-	-	-
Parakiefferiella sp. f epler	-	-	-	-	-	-
Paralauterborniella nigrohalterale	-	-	-	-	-	-
Paraleptophlebia volitans	-	-	-	-	-	-
Paramerina	-	-	1	1	-	-
Parametriocnemus	-	-	2	3	-	-
Paratanytarsus	-	-	-	-	-	-
Paratanytarsus dissimilis	-	-	-	-	-	-
Paratanytarsus quadratus	-	-	-	-	-	-
Paratendipes subaequalis	-	-	-	-	-	-
Pelonomus obscurus	-	-	-	-	-	-
Peltodytes	-	-	-	-	-	-
Peltodytes dietrichi	-	-	-	-	-	1
Pentaneura inconspicua	-	-	2	3	1	-
Perlesta placida complex	-	-	-	-	-	-
Perlinella drymo	-	-	-	-	-	-
Phaenopsectra flavipes	-	-	-	-	-	-
Phylocentropus	-	-	-	-	-	-
Physa	1	2	-	-	1	1
Physidae	-	-	-	-	-	-
Pilaria	-	-	-	-	-	-
Placobdella	-	-	-	-	-	-
Planorbella	-	-	-	-	-	-
Planorbidae	4	3	-	-	-	-
Platyhelminthes	-	-	-	-	-	-
Plauditus	-	-	-	-	-	-
Plauditus bimaculatus	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-
Polycentropodidae	-	-	-	-	-	-
Polycentropus	-	-	-	-	-	-
Polypedilum aviceps	-	-	-	-	-	-
Polypedilum fallax	-	-	-	-	-	-
Polypedilum flavum	-	-	42	23	-	-
Polypedilum halterale grp.	-	-	-	-	-	-
Polypedilum illinoense grp.	-	4	2	2	2	-
Polypedilum scalaenum grp.	-	-	1	3	-	-
Polypedilum sp. a epler	-	-	-	-	-	-
Polypedilum trigonus	-	-	-	-	-	-
Polypedilum tritum	-	-	-	-	-	1
Potthastia	-	-	-	-	-	-
Potthastia longimana	-	-	-	-	-	-
Pristina	-	-	-	-	-	-
Procambarus	-	-	-	-	-	-
Procladius	1	1	-	-	-	-
Procloeon	-	-	-	-	-	-
Progomphus	-	-	-	-	-	-
Progomphus obscurus	-	-	-	-	-	-

As Calculated / STORET station ->	22050040	22050040	CLA246GS	CLA246GS	23010464	23010464
Sample date ->	8/12/2008	8/12/2008	5/28/2008	5/28/2008	5/7/2008	5/7/2008
	65382/40367/	65382/40367/	65250/40368/	65250/40368/	64546/40384/	64546/40384/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Promoresia tardella	-	-	-	-	-	-
Prostoma	-	-	-	-	-	-
Psectrocladius	-	-	-	-	-	-
Pseudochironomus	-	-	-	-	-	-
Pseudocloeon	-	-	-	-	2	-
Pseudocloeon ephippiatum	-	-	-	-	-	-
Pseudocloeon frondale	-	-	3	5	-	-
Pseudocloeon propinquum	-	-	-	-	-	-
Pseudolimnophila	-	-	-	-	-	-
Psychodidae	-	-	-	-	-	-
Pteronarcys dorsata	-	-	-	-	-	-
Pyralidae	-	-	-	-	-	-
Rheocricotopus robacki	-	-	1	1	-	-
Rheotanytarsus	-	-	-	-	-	-
Rheotanytarsus exiguus grp.	-	-	3	7	2	10
Rheotanytarsus pellucidus	-	-	5	1	-	-
Rhyncholimnochares	-	-	-	-	-	-
Robackia claviger	-	-	-	-	-	-
Serratella deficiens	-	-	-	-	-	-
Sialis	-	-	-	-	-	-
Simulium	-	-	2	-	1	2
Simulium jonesi	-	-	-	-	-	-
Sisyra	-	-	-	-	1	-
Slavina appendiculata	-	-	2	1	3	4
Sperchon	-	-	-	-	-	-
Sperchonopsis	-	-	-	-	-	-
Sperchopsis	-	-	-	-	-	-
Sperchopsis tessellatus	-	-	-	-	-	-
Sphaeriidae(mollusca)	1	2	-	1	-	1
Spirosperma	-	-	-	-	-	-
Staphylinidae	-	-	-	-	-	-
Stelechomyia perpulchra	-	-	-	-	-	-
Stempellina	-	-	-	-	-	-
Stempellinella	-	-	-	-	-	-
Stempellinella fimbriata	-	-	1	2	-	-
Stempellinella leptocelloides	-	-	1	1	-	-
Stenacron	-	-	-	-	1	-
Stenacron interpunctatum	-	-	-	-	-	-
Stenelmis	3	-	5	4	-	-
Stenochironomus	-	-	2	1	-	-
Stenus	-	-	-	-	-	-
Stephensoniana trivandrana	-	-	-	-	-	-
Stratiomyidae	-	-	-	-	-	-
Sympetrum	-	-	-	-	-	-
Tabanidae	-	-	-	-	-	-
Taeniopteryx	-	-	-	-	-	-
Tanytarsus	-	-	-	-	-	-
Tanytarsus sp. a epler	-	-	-	-	1	-
Tanytarsus sp. c epler	-	-	-	-	-	-
Tanytarsus sp. d epler	-	-	-	1	-	-

As Calculated / STORET station ->	22050040	22050040	CLA246GS	CLA246GS	23010464	23010464
Sample date ->	8/12/2008	8/12/2008	5/28/2008	5/28/2008	5/7/2008	5/7/2008
Taxon Name / SampleID/BenthID ->	65382/40367/ Rep 1	65382/40367/ Rep 2	65250/40368/ Rep 1	65250/40368/ Rep 2	64546/40384/ Rep 1	64546/40384/ Rep 2
Tanytarsus sp. e epler	-	-	-	-	-	-
Tanytarsus sp. f epler	-	-	-	-	-	-
Tanytarsus sp. l epler	-	-	-	1	-	-
Tanytarsus sp. m epler	-	-	2	-	-	-
Tanytarsus sp. n epler	-	-	-	-	-	-
Tanytarsus sp. o epler	-	-	2	1	-	-
Tanytarsus sp. p epler	-	-	-	-	-	-
Tanytarsus sp. s epler	-	-	1	1	-	-
Tanytarsus sp. t epler	1	1	-	-	2	1
Tanytarsus sp. y epler	-	-	-	-	-	-
Thienemanniella	-	-	-	-	-	-
Thienemanniella lobapodema	-	-	-	-	-	-
Thienemanniella similis	-	-	-	-	-	-
Thienemanniella xena	-	-	-	-	-	-
Thienemannimyia grp.	-	-	1	-	-	-
Tipula	-	-	-	-	-	-
Tipula caloptera	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-
Torrenticola	-	-	-	-	-	-
Triaenodes	-	-	4	5	-	-
Triaenodes ignitus	-	-	-	-	-	-
Triaenodes perna/helo	-	-	-	-	-	-
Tribelos	-	-	-	-	-	-
Tribelos fuscicornis	1	-	-	-	-	-
Tribelos jucundum	-	-	1	-	-	-
Tricorythodes albilineatus	-	-	-	-	-	-
Tubificidae	-	-	-	-	3	-
Tvetenia	-	-	-	-	-	-
Tvetenia vitracies	-	-	-	-	-	-
Vertigo	-	-	-	-	-	-
Viviparus georgianus	1	-	-	-	-	-
Xenochironomus xenolabis	-	-	-	-	-	1
Xestochironomus	-	-	-	-	-	-
Xylotopus par	-	-	-	1	-	-
Zavreliella marmorata	-	-	-	-	-	-
Zavrelimyia sp. a epler	-	-	-	-	-	-

As Calculated / STORET station ->	WAK158LR	WAK158LR	BAK208GS	BAK208GS	CLA246GS	CLA246GS
Sample date ->	6/19/2008	6/19/2008	6/18/2008	6/18/2008	10/28/2008	10/28/2008
	65414/40405/	65414/40405/	65306/40406/	65306/40406/	65636/40430/	65636/40430/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Ablabesmyia mallochi	2	-	16	7	15	4
Ablabesmyia rhamphe grp.	2	-	-	-	-	1
Acentrella	-	-	-	-	-	-
Acentrella parvula	-	-	-	-	-	-
Acerpenna pygmaea	-	-	-	-	1	-
Acroneuria	-	-	-	-	-	-
Acroneuria abnormis	-	-	-	-	-	-
Acroneuria lycorias	-	-	-	-	-	-
Agnetina annulipes	-	-	-	-	-	-
Allonais inaequalis	-	-	-	-	-	-
Amnicola	-	-	-	-	6	5
Amphipoda	-	-	-	-	-	-
Ancylidae	4	2	1	3	11	10
Ancyronyx variegatus	-	-	4	3	-	-
Anisocentropus pyraloides	-	-	-	-	-	-
Apedilum	-	-	-	-	-	-
Argia	5	7	-	-	1	2
Argia fumipennis	-	-	-	-	-	-
Argia tibialis	-	-	2	8	-	-
Arrenurus	1	-	-	-	-	-
Asioplax	-	-	-	-	-	-
Atherix	-	-	-	-	-	-
Atractides	-	-	-	-	-	-
Atrichopogon	3	4	-	1	-	1
Aulodrilus pigueti	-	-	-	-	-	-
Baetidae	-	-	-	-	-	-
Baetis intercalaris	-	-	-	-	-	-
Baetisca becki	-	-	-	-	-	-
Baetisca rogersi	-	-	-	-	-	-
Beardius	-	-	-	-	-	-
Berosus	-	-	-	2	-	-
Bivalvia	-	-	-	-	-	-
Boyeria vinosa	-	-	-	-	-	-
Brachycentrus chelatus	-	-	-	-	-	-
Brachycentrus numerosus	-	-	-	-	-	-
Branchiobdellidae	-	-	-	-	-	-
Bratislavia unidentata	1	-	-	-	-	-
Brillia	-	-	-	-	-	-
Caecidotea	20	17	-	-	12	15
Caenis	-	-	-	-	-	-
Caenis diminuta	-	-	-	-	-	-
Caenis eglinensis	-	-	-	-	-	-
Caenis hilaris	-	-	-	-	-	-
Callibaetis	-	-	-	-	-	-
Callibaetis floridanus	-	-	-	-	-	-
Calopterygidae	-	-	-	-	-	-
Calopteryx	-	-	-	-	-	1
Cambaridae	-	-	-	-	1	1
Campeloma	-	-	-	-	-	-
Cecidomyiidae	-	-	-	-	-	-

As Calculated / STORET station ->	WAK158LR	WAK158LR	BAK208GS	BAK208GS	CLA246GS	CLA246GS
Sample date ->	6/19/2008	6/19/2008	6/18/2008	6/18/2008	10/28/2008	10/28/2008
	65414/40405/	65414/40405/	65306/40406/	65306/40406/	65636/40430/	65636/40430/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Celina	-	-	-	-	-	-
Centroptilum triangulifer	-	-	-	-	-	-
Ceraclea	-	-	-	-	-	-
Ceratopogonidae	-	-	-	-	-	-
Cernotina	5	17	-	-	-	-
Chauliodes	-	-	-	-	-	-
Cheumatopsyche	-	-	-	-	4	2
Chimarra	-	-	-	-	-	-
Chironomus	-	-	1	-	-	-
Choroterpes basalis	6	6	-	-	-	-
Chrysomelidae	-	-	-	-	-	-
Cladotanytarsus	-	-	-	-	-	-
Cladotanytarsus cf. daviesi	-	-	-	-	-	-
Cladotanytarsus sp. d epler	-	-	-	-	-	-
Cladotanytarsus sp. f epler	-	-	-	-	-	-
Cladotanytarsus viridiventris	-	-	-	-	-	-
Clathrosperchon	-	-	-	-	-	-
Climacia areolaris	-	-	3	1	-	-
Clinotanypus	-	-	-	-	-	-
Coenagrionidae	-	-	-	-	-	-
Corbicula fluminea	-	-	-	-	-	-
Corydalidae	-	-	-	-	-	-
Corydalus cornutus	-	-	-	-	1	-
Corynoneura	-	-	-	-	-	-
Crangonyx	-	-	-	-	-	2
Cricotopus	-	-	-	-	-	-
Cricotopus bicinctus	-	-	-	-	-	-
Cricotopus or orthocladius	-	-	-	-	-	-
Cryptochironomus	-	-	-	-	-	-
Cryptotendipes	-	-	-	-	-	-
Curculionidae	-	-	-	-	-	-
Cyrnellus fraternus	-	-	-	-	-	-
Dasyhelea	-	-	-	-	-	-
Dero	-	-	-	-	-	-
Dero digitata complex	-	-	-	-	-	-
Dero flabelliger	-	-	-	-	-	-
Dero furcata	-	-	-	-	-	-
Dero pectinata	-	-	-	-	-	-
Desmopachria	-	-	-	-	-	-
Desserobdella phalera	-	-	-	-	-	-
Dicrotendipes	-	-	-	-	-	-
Dicrotendipes modestus	1	-	-	-	-	-
Dicrotendipes neomodestus	-	-	-	-	-	-
Dicrotendipes simpsoni	-	-	-	-	-	-
Dicrotendipes sp. a epler	-	-	-	-	-	-
Dineutus	1	-	-	-	-	-
Diplectrona	-	-	-	1	-	-
Djalmabatista pulcher	-	6	-	-	-	-
Dryopidae	-	-	-	-	-	-
Dubiraphia vittata	4	4	-	-	-	-

As Calculated / STORET station ->	WAK158LR	WAK158LR	BAK208GS	BAK208GS	CLA246GS	CLA246GS
Sample date ->	6/19/2008	6/19/2008	6/18/2008	6/18/2008	10/28/2008	10/28/2008
	65414/40405/	65414/40405/	65306/40406/	65306/40406/	65636/40430/	65636/40430/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Dytiscidae	-	-	-	-	-	-
Eclipidrilus	-	-	-	-	-	-
Eclipidrilus palustris	-	-	-	-	-	-
Ectopria	-	-	-	-	-	-
Ectopria thoracica	4	3	-	-	-	-
Einfeldia sp. a epler	-	-	-	-	-	-
Elimia	-	-	-	-	-	-
Elmidae	-	-	-	-	-	-
Enallagma	-	-	3	1	4	1
Enallagma coecum	-	-	-	-	-	-
Enchytraeidae	-	-	1	-	-	-
Endotribelos hesperium	-	-	-	-	1	-
Enochrus	-	-	-	-	-	-
Epicordulia princeps regina	-	-	-	-	1	-
Eurylophella doris	-	-	-	-	2	7
Ferrissia	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-
Geayia	-	-	-	-	-	-
Gerridae	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-
Goeldichironomus	-	-	-	-	-	-
Goeldichironomus cf. natans	-	-	-	-	-	-
Goeldichironomus holoprasinus	-	-	-	-	-	-
Gomphidae	1	-	-	-	-	-
Gomphus	-	-	-	-	-	-
Gonielmis dietrichi	-	-	-	-	-	-
Gyrinidae	-	-	-	-	-	-
Gyrinus	-	-	-	-	-	-
Haemonais waldvogeli	-	-	-	-	-	-
Hagenius brevistylus	-	-	-	-	-	-
Haitia	-	-	-	-	-	-
Hayesomyia senata	-	-	-	-	-	-
Helichus	-	-	-	-	-	-
Helichus lithophilus	-	-	-	-	-	-
Helobdella stagnalis	-	-	-	-	-	-
Helobdella triserialis	-	-	-	-	-	-
Hemerodromia	-	-	1	2	-	-
Heptageniidae	-	-	3	2	-	-
Hetaerina	-	-	-	-	-	-
Hetaerina titia	-	-	-	-	-	-
Hexagenia	-	-	-	-	-	-
Hexatoma	-	-	-	-	-	-
Hirudinea	-	-	-	-	-	1
Hyalella azteca	-	1	-	-	-	-
Hydraena	-	-	-	-	-	-
Hydrobiidae	-	-	-	-	-	-
Hydrodroma	-	-	-	-	-	-
Hydrometra	-	-	-	-	-	-
Hydrophilidae	-	-	-	-	-	-
Hydropsyche	-	-	-	-	-	-

As Calculated / STORET station ->	WAK158LR	WAK158LR	BAK208GS	BAK208GS	CLA246GS	CLA246GS
Sample date ->	6/19/2008	6/19/2008	6/18/2008	6/18/2008	10/28/2008	10/28/2008
	65414/40405/	65414/40405/	65306/40406/	65306/40406/	65636/40430/	65636/40430/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Hydropsyche incommoda	-	-	-	-	-	-
Hydropsyche mississippiensis	-	-	-	-	-	-
Hydroptila	-	-	-	-	1	-
Hydrovatus	-	-	-	-	-	-
Hygrobates	-	-	-	-	-	-
Ischnura	-	-	-	-	-	-
Isonychia	-	-	-	-	-	-
Kiefferulus	-	-	-	-	-	-
Koenikea	-	1	-	-	-	-
Krendowskia	-	-	-	-	-	-
Labrundinia	-	-	-	-	-	-
Labrundinia becki	-	3	4	2	-	1
Labrundinia johannseni	-	-	-	-	-	-
Labrundinia pilosella	-	-	-	2	4	3
Labrundinia sp. 3 nr. virescens	-	-	-	-	-	-
Laccophilus	-	-	-	-	-	-
Laevapex	-	-	-	-	-	-
Larsia	-	-	-	-	-	1
Larsia decolorata	-	-	-	-	-	-
Lauterborniella agrayloides	4	6	-	-	-	-
Lebertia	-	-	-	-	-	-
Lepidoptera	-	-	1	-	1	-
Lepidostoma	-	-	-	-	-	-
Leptophlebiidae	-	-	-	-	1	2
Leuctra	-	-	-	-	-	-
Libellulidae	-	-	-	4	-	-
Limnesia	-	-	-	-	-	-
Limnodrilus hoffmeisteri	-	-	-	-	-	-
Lioporeus	-	-	-	-	-	-
Lirceus	-	-	-	-	-	-
Lopescladius	-	-	-	-	-	-
Lumbriculus variegatus	-	-	-	-	-	-
Lymnaeidae	-	-	-	-	-	-
Lype diversa	-	-	-	-	-	-
Maccaffertium	-	-	-	-	2	7
Maccaffertium exiguum	-	-	-	-	-	-
Maccaffertium smithae	-	-	-	-	-	-
Macromia	-	-	-	-	-	-
Macromia illinoiensis georgina	-	-	-	-	-	-
Macronychus glabratus	-	-	-	-	3	7
Macrostemum carolina	-	-	-	-	-	-
Mayatrichia ayama	-	-	-	-	-	-
Megistocera	-	-	-	-	-	-
Mesonoterus	-	-	-	-	-	-
Mesovelia	-	-	-	-	1	-
Micrasema	-	-	-	-	-	-
Microcylloepus pusillus	2	6	12	6	5	8
Micromenetus	34	13	-	-	1	-
Micromenetus dilatatus avus	-	-	-	-	-	-
Micropsectra	-	-	-	-	-	-

As Calculated / STORET station ->	WAK158LR	WAK158LR	BAK208GS	BAK208GS	CLA246GS	CLA246GS
Sample date ->	6/19/2008	6/19/2008	6/18/2008	6/18/2008	10/28/2008	10/28/2008
	65414/40405/	65414/40405/	65306/40406/	65306/40406/	65636/40430/	65636/40430/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Microtendipes	-	-	-	-	-	-
Microtendipes pedellus grp.	10	11	-	-	-	3
Microtendipes rydalensis grp.	-	-	-	-	-	-
Microvelia	-	-	-	-	-	-
Mideopsis	-	-	-	-	-	-
Momonia	-	1	-	-	-	-
Monopelopia	-	-	-	-	-	-
Mooreobdella	-	-	-	-	-	-
Naididae	-	-	-	-	-	-
Nais communis complex	-	-	-	-	-	-
Nais(animal)	-	-	-	-	-	-
Nanocladius	-	-	-	-	-	-
Nectopsyche	-	-	-	-	2	2
Nectopsyche exquisita	2	-	-	-	-	-
Nectopsyche pavida	-	-	-	-	-	-
Neoephemera	-	-	-	-	-	-
Neoperla	-	-	-	-	-	-
Neoplasta	-	-	-	-	-	-
Neoplea	-	-	-	-	-	-
Neoporus	-	-	-	-	-	-
Neotrichia	-	-	-	-	-	-
Neureclipsis	-	-	-	-	-	-
Neureclipsis crepuscularis	-	-	-	-	-	-
Neurocordulia	1	-	-	-	-	-
Neurocordulia alabamensis	-	-	6	-	-	-
Nigronia	-	-	-	-	-	-
Nigronia serricornis	-	-	-	-	-	-
Nilotanypus americanus	-	-	-	-	-	-
Nilotanypus fimbriatus	-	-	-	-	-	-
Nilothauma	-	-	-	-	-	-
Notomicrus nanulus	-	-	-	-	-	-
Nyctiophylax	-	-	1	-	-	-
Oecetis	2	1	-	-	-	1
Oecetis avara	-	-	-	-	-	-
Oecetis cinerascens	-	-	-	-	-	-
Oecetis georgia	-	-	34	35	-	-
Oecetis sphyra/morsei	-	-	-	-	-	-
Ora/scirtes	-	-	2	-	-	-
Oribatida	-	-	-	-	-	-
Ormosia	-	-	-	-	-	-
Orthocladius annectens	-	-	-	1	-	-
Orthotrichia	-	-	-	-	-	-
Oxus	-	-	-	-	-	-
Oxyethira	1	-	-	1	-	-
Pachydiplax longipennis	-	-	-	-	-	-
Palaemonetes	-	-	-	-	-	-
Palpomyia/bezzia grp.	-	-	-	-	-	-
Parachaetocladius abnobaeus	-	-	-	-	-	-
Parachironomus	-	1	-	-	-	-
Parachironomus chaetoalus complex	-	-	-	-	-	-

As Calculated / STORET station ->	WAK158LR	WAK158LR	BAK208GS	BAK208GS	CLA246GS	CLA246GS
Sample date ->	6/19/2008	6/19/2008	6/18/2008	6/18/2008	10/28/2008	10/28/2008
	65414/40405/	65414/40405/	65306/40406/	65306/40406/	65636/40430/	65636/40430/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Parachironomus supparilis	-	-	-	-	-	-
Paracladopelma	-	-	-	-	-	-
Paracymus	-	-	-	-	-	-
Parakiefferiella sp. b epler	-	-	-	-	-	-
Parakiefferiella sp. f epler	-	-	-	-	-	-
Paralauterborniella nigrohalterale	-	-	-	-	-	-
Paraleptophlebia volitans	4	6	-	-	-	-
Paramerina	-	-	-	-	-	-
Parametriocnemus	-	-	-	-	-	-
Paratanytarsus	-	-	-	-	-	-
Paratanytarsus dissimilis	-	-	-	-	-	-
Paratanytarsus quadratus	-	-	-	-	-	-
Paratendipes subaequalis	-	-	-	-	-	-
Pelonomus obscurus	-	-	-	-	-	-
Peltodytes	-	-	-	-	-	-
Peltodytes dietrichi	-	-	-	-	-	-
Pentaneura inconspicua	-	-	-	-	2	8
Perlesta placida complex	-	-	-	-	-	-
Perlinella drymo	-	-	-	-	-	-
Phaenopsectra flavipes	-	-	-	-	-	-
Phylocentropus	-	-	-	-	-	-
Physa	4	2	-	-	-	-
Physidae	-	-	-	-	-	-
Pilaria	-	-	-	-	-	-
Placobdella	-	-	-	-	-	-
Planorbella	-	-	-	-	-	-
Planorbidae	-	-	-	-	-	-
Platyhelminthes	-	-	-	-	-	-
Plauditus	-	-	-	-	-	-
Plauditus bimaculatus	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-
Polycentropodidae	-	-	-	-	-	-
Polycentropus	-	-	-	-	-	-
Polypedilum aviceps	-	-	-	-	-	-
Polypedilum fallax	-	-	-	-	-	-
Polypedilum flavum	-	-	-	-	14	12
Polypedilum halterale grp.	-	-	-	-	-	-
Polypedilum illinoense grp.	-	-	1	-	21	9
Polypedilum scalaenum grp.	-	-	-	-	-	-
Polypedilum sp. a epler	-	-	-	-	-	-
Polypedilum trigonus	-	-	-	-	-	-
Polypedilum tritum	-	-	-	1	-	-
Potthastia	-	-	-	-	-	-
Potthastia longimana	-	-	-	-	-	-
Pristina	-	-	2	4	-	-
Procambarus	-	-	-	-	-	-
Procladius	2	1	-	-	1	-
Procloeon	-	-	-	-	-	-
Progomphus	-	-	-	-	-	-
Progomphus obscurus	-	-	-	-	-	-

As Calculated / STORET station ->	WAK158LR	WAK158LR	BAK208GS	BAK208GS	CLA246GS	CLA246GS
Sample date ->	6/19/2008	6/19/2008	6/18/2008	6/18/2008	10/28/2008	10/28/2008
	65414/40405/	65414/40405/	65306/40406/	65306/40406/	65636/40430/	65636/40430/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Promoresia tardella	-	-	-	-	-	-
Prostoma	-	-	-	-	-	-
Psectrocladius	-	-	1	-	-	-
Pseudochironomus	-	3	-	-	-	-
Pseudocloeon	-	-	-	-	-	-
Pseudocloeon ephippiatum	-	-	-	-	-	-
Pseudocloeon frondale	-	-	-	-	-	-
Pseudocloeon propinquum	-	-	-	-	-	-
Pseudolimnophila	-	-	-	-	-	-
Psychodidae	-	-	-	-	-	-
Pteronarcys dorsata	-	-	-	-	-	-
Pyralidae	-	-	-	-	-	-
Rheocricotopus robacki	-	-	-	-	-	-
Rheotanytarsus	-	-	-	-	-	-
Rheotanytarsus exiguus grp.	-	-	2	5	-	1
Rheotanytarsus pellucidus	-	-	-	-	2	-
Rhyncholimnochares	-	-	-	-	-	-
Robackia claviger	-	-	-	-	-	-
Serratella deficiens	-	-	-	-	-	-
Sialis	-	1	-	-	-	-
Simulium	-	-	-	-	1	1
Simulium jonesi	-	-	-	-	-	-
Sisyra	-	-	-	-	-	-
Slavina appendiculata	-	-	-	-	-	-
Sperchon	-	-	-	-	-	-
Sperchonopsis	-	-	-	-	-	-
Sperchopsis	-	-	-	-	-	-
Sperchopsis tessellatus	-	-	-	-	-	-
Sphaeriidae(mollusca)	2	3	-	-	-	-
Spirosperma	-	-	-	-	-	-
Staphylinidae	-	-	-	-	-	1
Stelechomyia perpulchra	-	-	-	-	-	-
Stempellina	-	-	-	-	-	-
Stempellinella	-	-	-	-	1	-
Stempellinella fimbriata	2	-	-	-	-	-
Stempellinella leptocelloides	-	-	-	-	-	-
Stenacron	-	-	-	-	2	-
Stenacron interpunctatum	-	-	-	-	-	-
Stenelmis	2	3	17	17	-	-
Stenochironomus	-	1	2	2	4	12
Stenus	-	-	-	-	-	-
Stephensoniana trivandrana	-	-	-	-	-	-
Stratiomyidae	-	-	-	-	-	-
Sympetrum	-	-	-	-	-	-
Tabanidae	-	-	-	-	-	-
Taeniopteryx	-	-	-	-	-	-
Tanytarsus	-	-	-	-	-	-
Tanytarsus sp. a epler	2	2	-	-	-	-
Tanytarsus sp. c epler	3	-	-	-	-	-
Tanytarsus sp. d epler	-	-	5	4	2	-

As Calculated / STORET station ->	WAK158LR	WAK158LR	BAK208GS	BAK208GS	CLA246GS	CLA246GS
Sample date ->	6/19/2008	6/19/2008	6/18/2008	6/18/2008	10/28/2008	10/28/2008
Taxon Name / SampleID/BenthID ->	65414/40405/ Rep 1	65414/40405/ Rep 2	65306/40406/ Rep 1	65306/40406/ Rep 2	65636/40430/ Rep 1	65636/40430/ Rep 2
Tanytarsus sp. e epler	-	-	-	-	-	-
Tanytarsus sp. f epler	-	-	-	-	-	-
Tanytarsus sp. l epler	-	2	4	4	6	2
Tanytarsus sp. m epler	2	2	-	-	4	1
Tanytarsus sp. n epler	-	-	-	-	-	-
Tanytarsus sp. o epler	-	-	-	-	-	-
Tanytarsus sp. p epler	-	-	-	-	-	-
Tanytarsus sp. s epler	-	-	-	-	-	-
Tanytarsus sp. t epler	-	-	-	-	-	-
Tanytarsus sp. y epler	-	-	-	-	-	-
Thienemanniella	-	-	-	-	-	-
Thienemanniella lobapodema	-	-	-	-	-	-
Thienemanniella similis	-	-	-	-	-	-
Thienemanniella xena	-	-	-	-	-	-
Thienemannimyia grp.	-	1	12	23	-	-
Tipula	-	-	-	-	-	-
Tipula caloptera	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-
Torrenticola	-	1	-	-	-	-
Triaenodes	-	-	-	-	3	3
Triaenodes ignitus	-	-	-	-	-	-
Triaenodes perna/helo	-	-	11	8	-	-
Tribelos	-	-	1	-	-	-
Tribelos fuscicornis	-	-	-	-	-	-
Tribelos jucundum	1	-	-	1	9	7
Tricorythodes albilineatus	4	3	-	-	-	-
Tubificidae	-	-	-	1	-	-
Tvetenia	-	-	-	-	-	-
Tvetenia vitracies	-	-	-	-	-	-
Vertigo	-	-	-	-	-	-
Viviparus georgianus	-	-	-	-	-	-
Xenochironomus xenolabis	-	-	-	-	-	-
Xestochironomus	-	-	-	-	-	-
Xylotopus par	-	-	-	-	-	-
Zavreliella marmorata	-	-	-	-	-	-
Zavrelimyia sp. a epler	-	-	-	-	-	-

As Calculated / STORET station ->	UNI234LV	UNI234LV	23010464	23010464	19010006	19010006
Sample date ->	10/16/2008	10/16/2008	10/8/2008	10/8/2008	11/12/2008	11/12/2008
	65637/40431/	65637/40431/	65567/40448/	65567/40448/	65731/40476/	65731/40476/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Ablabesmyia mallochi	-	-	-	-	-	1
Ablabesmyia rhamphe grp.	-	-	-	-	1	-
Acentrella	-	-	-	-	-	-
Acentrella parvula	-	-	-	-	-	-
Acerpenna pygmaea	-	-	-	-	-	-
Acroneuria	-	-	-	-	-	-
Acroneuria abnormis	-	-	-	-	-	-
Acroneuria lycorias	-	-	-	-	-	-
Agnetina annulipes	-	-	-	-	-	-
Allonais inaequalis	-	-	-	2	-	-
Amnicola	-	-	-	-	-	-
Amphipoda	-	-	-	-	-	-
Ancylidae	-	-	6	1	3	1
Ancyronyx variegatus	-	-	-	-	-	1
Anisocentropus pyraloides	-	-	-	-	-	-
Apedilum	-	-	-	-	-	-
Argia	-	-	-	1	3	-
Argia fumipennis	-	-	-	-	-	-
Argia tibialis	-	-	-	-	-	9
Arrenurus	-	-	-	-	1	-
Asioplax	-	-	-	-	-	-
Atherix	-	-	-	-	-	-
Atractides	-	-	-	-	-	-
Atrichopogon	-	-	-	-	-	-
Aulodrilus pigueti	-	-	12	8	-	-
Baetidae	-	-	1	-	-	-
Baetis intercalaris	-	-	-	-	-	-
Baetisca becki	-	-	-	-	-	-
Baetisca rogersi	-	-	-	-	-	-
Beardius	-	-	-	-	-	-
Berosus	-	-	-	-	-	-
Bivalvia	-	-	-	-	-	-
Boyeria vinosa	-	-	-	-	-	-
Brachycentrus chelatus	-	-	-	-	-	-
Brachycentrus numerosus	-	-	-	-	-	-
Branchiobdellidae	-	-	-	-	-	-
Bratislavia unidentata	-	-	1	-	-	-
Brillia	-	-	-	-	-	-
Caecidotea	30	17	-	1	3	3
Caenis	1	-	2	2	-	-
Caenis diminuta	-	-	-	-	-	-
Caenis eglinensis	-	-	-	-	-	-
Caenis hilaris	-	-	-	-	-	-
Callibaetis	-	-	-	-	-	-
Callibaetis floridanus	-	-	-	-	-	-
Calopterygidae	-	-	-	-	-	-
Calopteryx	-	-	-	-	-	-
Cambaridae	-	-	-	-	4	2
Campeloma	-	-	-	-	-	-
Cecidomyiidae	-	-	-	-	-	-

As Calculated / STORET station ->	UNI234LV	UNI234LV	23010464	23010464	19010006	19010006
Sample date ->	10/16/2008	10/16/2008	10/8/2008	10/8/2008	11/12/2008	11/12/2008
	65637/40431/	65637/40431/	65567/40448/	65567/40448/	65731/40476/	65731/40476/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Celina	-	-	-	3	-	-
Centroptilum triangulifer	-	-	-	-	-	-
Ceraclea	-	-	-	-	-	-
Ceratopogonidae	1	-	-	-	-	-
Cernotina	-	-	-	-	-	1
Chauliodes	-	-	-	-	-	-
Cheumatopsyche	-	-	-	1	-	-
Chimarra	2	-	-	-	5	12
Chironomus	-	-	12	10	-	-
Choroterpes basalis	-	-	-	-	-	-
Chrysomelidae	-	-	-	-	-	-
Cladotanytarsus	-	-	-	-	-	-
Cladotanytarsus cf. daviesi	2	-	-	-	-	-
Cladotanytarsus sp. d epler	-	-	-	-	-	-
Cladotanytarsus sp. f epler	-	-	-	-	-	-
Cladotanytarsus viridiventris	-	-	-	-	-	-
Clathrosperchon	-	-	-	-	-	-
Climacia areolaris	-	-	-	-	-	-
Clinotanypus	-	-	-	-	-	-
Coenagrionidae	-	-	-	-	-	-
Corbicula fluminea	-	-	-	-	-	-
Corydalidae	-	-	-	-	-	-
Corydalus cornutus	-	-	-	-	-	1
Corynoneura	-	-	-	-	-	-
Crangonyx	1	3	-	-	1	1
Cricotopus	-	-	-	-	-	-
Cricotopus bicinctus	-	-	-	-	-	-
Cricotopus or orthocladius	-	-	-	-	-	-
Cryptochironomus	-	-	-	-	-	-
Cryptotendipes	-	-	-	-	-	-
Curculionidae	-	-	-	-	-	-
Cyrnellus fraternus	-	-	-	-	1	2
Dasyhelea	-	-	-	2	-	-
Dero	-	-	-	-	-	-
Dero digitata complex	-	-	6	10	-	-
Dero flabelliger	-	-	8	12	-	-
Dero furcata	-	-	-	2	-	-
Dero pectinata	-	-	4	5	-	-
Desmopachria	-	-	-	-	-	-
Desserobdella phalera	-	-	-	-	-	-
Dicrotendipes	-	-	-	-	-	-
Dicrotendipes modestus	-	-	-	-	-	-
Dicrotendipes neomodestus	-	-	-	-	-	-
Dicrotendipes simpsoni	-	-	2	2	-	-
Dicrotendipes sp. a epler	-	-	-	-	-	-
Dineutus	-	-	3	1	-	-
Diplectrona	-	-	-	-	-	-
Djalmabatista pulcher	-	-	-	-	3	1
Dryopidae	-	-	-	-	-	-
Dubiraphia vittata	1	-	-	-	2	3

As Calculated / STORET station ->	UNI234LV	UNI234LV	23010464	23010464	19010006	19010006
Sample date ->	10/16/2008	10/16/2008	10/8/2008	10/8/2008	11/12/2008	11/12/2008
	65637/40431/	65637/40431/	65567/40448/	65567/40448/	65731/40476/	65731/40476/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Dytiscidae	-	-	-	-	-	-
Eclipidrilus	-	-	-	1	-	-
Eclipidrilus palustris	-	-	-	-	-	-
Ectopria	-	-	-	-	-	-
Ectopria thoracica	-	-	-	-	-	-
Einfeldia sp. a epler	-	-	-	-	-	-
Elimia	-	-	-	-	-	-
Elmidae	-	-	-	-	-	-
Enallagma	-	-	-	1	3	2
Enallagma coecum	-	-	-	-	-	-
Enchytraeidae	-	-	-	-	-	-
Endotribelos hesperium	-	-	-	-	-	-
Enochrus	1	-	-	-	-	-
Epicordulia princeps regina	-	-	-	-	-	-
Eurylophella doris	-	-	-	-	-	-
Ferrissia	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-
Geayia	-	-	-	-	-	-
Gerridae	-	-	-	-	1	-
Glossiphoniidae	-	-	-	-	-	-
Goeldichironomus	-	-	4	-	-	-
Goeldichironomus cf. natans	-	-	-	-	-	-
Goeldichironomus holoprasinus	-	-	-	8	-	-
Gomphidae	-	-	-	-	-	-
Gomphus	-	-	-	-	-	-
Gonielmis dietrichi	-	-	-	-	-	-
Gyrinidae	-	-	-	-	-	-
Gyrinus	-	-	-	-	-	-
Haemonais waldvogeli	-	-	-	1	-	-
Hagenius brevistylus	-	-	-	-	-	-
Haitia	-	-	-	-	-	-
Hayesomyia senata	-	-	-	-	-	-
Helichus	-	-	-	-	-	-
Helichus lithophilus	-	-	-	-	-	-
Helobdella stagnalis	-	-	-	-	-	-
Helobdella triserialis	-	-	-	-	-	-
Hemerodromia	-	-	-	-	1	7
Heptageniidae	-	-	-	-	-	-
Hetaerina	-	-	-	-	-	2
Hetaerina titia	-	-	-	-	-	-
Hexagenia	-	-	-	-	-	-
Hexatoma	-	-	-	-	-	-
Hirudinea	-	-	-	-	-	-
Hyalella azteca	-	-	22	17	-	-
Hydraena	-	-	-	-	-	-
Hydrobiidae	-	-	-	-	-	-
Hydrodroma	-	-	-	-	-	-
Hydrometra	1	-	-	-	-	-
Hydrophilidae	-	-	-	-	-	-
Hydropsyche	-	-	-	-	25	24

As Calculated / STORET station ->	UNI234LV	UNI234LV	23010464	23010464	19010006	19010006
Sample date ->	10/16/2008	10/16/2008	10/8/2008	10/8/2008	11/12/2008	11/12/2008
	65637/40431/	65637/40431/	65567/40448/	65567/40448/	65731/40476/	65731/40476/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Hydropsyche incommoda	-	-	-	-	-	-
Hydropsyche mississippiensis	-	-	-	-	-	-
Hydroptila	-	-	-	-	-	-
Hydrovatus	-	-	3	-	-	-
Hygrobates	-	-	-	-	-	-
Ischnura	-	-	-	-	-	-
Isonychia	-	-	-	-	-	-
Kiefferulus	-	-	5	2	-	-
Koenikea	-	-	-	-	-	-
Krendowskia	-	-	-	-	-	-
Labrundinia	-	-	-	-	-	-
Labrundinia becki	-	-	-	-	-	-
Labrundinia johannseni	-	-	-	-	-	-
Labrundinia pilosella	-	-	-	-	-	-
Labrundinia sp. 3 nr. virescens	-	-	-	-	-	-
Laccophilus	-	-	-	-	-	-
Laevapex	-	-	-	-	-	-
Larsia	-	-	-	-	-	-
Larsia decolorata	-	-	-	-	-	-
Lauterborniella agrayloides	-	-	-	-	-	-
Lebertia	-	-	-	-	-	-
Lepidoptera	-	-	-	-	-	-
Lepidostoma	-	-	-	-	-	-
Leptophlebiidae	64	69	-	-	5	7
Leuctra	-	-	-	-	-	-
Libellulidae	-	-	-	-	-	-
Limnesia	-	-	-	-	-	-
Limnodrilus hoffmeisteri	-	-	1	-	-	-
Lioporeus	-	-	-	-	-	-
Lirceus	-	-	-	-	-	-
Lopescladius	-	-	-	-	-	-
Lumbriculus variegatus	-	-	-	-	-	-
Lymnaeidae	-	-	-	-	-	-
Lype diversa	-	-	-	-	-	-
Maccaffertium	3	1	-	-	-	-
Maccaffertium exiguum	-	-	-	-	13	9
Maccaffertium smithae	-	-	-	-	-	-
Macromia	-	-	-	-	-	-
Macromia illinoiensis georgina	-	-	-	-	-	-
Macronychus glabratus	-	-	-	-	-	-
Macrostemum carolina	-	-	-	-	1	1
Mayatrichia ayama	-	-	-	-	-	-
Megistocera	-	-	-	-	-	-
Mesonoterus	-	-	-	1	-	-
Mesovelia	-	-	-	-	-	-
Micrasema	-	-	-	-	-	-
Microcylloepus pusillus	-	-	-	-	1	-
Micromenetus	-	-	5	2	-	-
Micromenetus dilatatus avus	-	-	-	-	-	-
Micropsectra	-	-	-	-	-	-

As Calculated / STORET station ->	UNI234LV	UNI234LV	23010464	23010464	19010006	19010006
Sample date ->	10/16/2008	10/16/2008	10/8/2008	10/8/2008	11/12/2008	11/12/2008
	65637/40431/	65637/40431/	65567/40448/	65567/40448/	65731/40476/	65731/40476/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Microtendipes	-	-	-	-	-	-
Microtendipes pedellus grp.	-	-	-	-	-	-
Microtendipes rydalensis grp.	-	-	-	-	-	-
Microvelia	-	-	-	-	-	-
Mideopsis	-	-	-	-	1	1
Momonia	-	-	-	-	-	-
Monopelopia	-	-	-	-	-	-
Mooreobdella	-	-	-	-	-	-
Naididae	1	-	-	-	-	-
Nais communis complex	-	-	-	-	-	-
Nais(animal)	-	1	-	-	-	-
Nanocladius	-	-	-	-	-	-
Nectopsyche	-	-	-	-	-	-
Nectopsyche exquisita	-	-	-	-	2	-
Nectopsyche pavida	-	-	-	-	-	-
Neoephemera	-	-	-	-	-	-
Neoperla	-	-	-	-	-	-
Neoplasta	-	-	-	-	-	-
Neoplea	-	-	-	-	-	-
Neoporus	4	1	-	-	1	-
Neotrichia	-	-	-	-	-	-
Neureclipsis	-	-	-	-	-	-
Neureclipsis crepuscularis	-	-	-	-	2	8
Neurocordulia	-	-	1	-	-	-
Neurocordulia alabamensis	-	-	-	-	-	-
Nigronia	-	-	-	-	-	-
Nigronia serricornis	-	-	-	-	-	-
Nilotanypus americanus	-	-	-	-	-	-
Nilotanypus fimbriatus	-	-	-	-	-	-
Nilothauma	-	-	-	-	-	-
Notomicrus nanulus	-	-	-	1	-	-
Nyctiophylax	-	-	-	-	-	-
Oecetis	-	-	-	-	1	8
Oecetis avara	-	-	-	-	-	-
Oecetis cinerascens	-	-	-	-	-	-
Oecetis georgia	-	-	-	-	-	-
Oecetis sphyra/morsei	-	-	-	-	-	-
Ora/scirtes	-	-	-	-	-	-
Oribatida	-	-	-	-	-	-
Ormosia	-	-	-	-	-	-
Orthocladius annectens	-	-	-	-	-	-
Orthotrichia	-	-	-	-	-	-
Oxus	-	-	-	-	-	-
Oxyethira	-	-	1	-	-	-
Pachydiplax longipennis	-	-	-	-	-	-
Palaemonetes	-	-	3	3	-	1
Palpomyia/bezzia grp.	-	-	1	-	-	-
Parachaetocladius abnobaeus	-	-	-	-	-	-
Parachironomus	-	-	3	1	-	-
Parachironomus chaetoalus complex	-	-	-	-	-	-

As Calculated / STORET station ->	UNI234LV	UNI234LV	23010464	23010464	19010006	19010006
Sample date ->	10/16/2008	10/16/2008	10/8/2008	10/8/2008	11/12/2008	11/12/2008
	65637/40431/	65637/40431/	65567/40448/	65567/40448/	65731/40476/	65731/40476/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Parachironomus supparilis	-	-	-	-	-	-
Paracladopelma	-	-	-	-	-	-
Paracymus	-	-	-	-	-	-
Parakiefferiella sp. b epler	-	-	-	-	-	-
Parakiefferiella sp. f epler	-	-	-	-	-	-
Paralauterborniella nigrohalterale	-	-	-	-	-	-
Paraleptophlebia volitans	-	-	-	-	-	-
Paramerina	-	-	-	-	-	-
Parametriocnemus	-	-	-	-	-	-
Paratanytarsus	-	-	-	-	-	-
Paratanytarsus dissimilis	-	-	-	-	-	-
Paratanytarsus quadratus	-	-	-	-	-	-
Paratendipes subaequalis	-	-	-	-	-	-
Pelonomus obscurus	-	-	-	-	-	-
Peltodytes	-	-	3	-	-	-
Peltodytes dietrichi	-	-	-	-	-	-
Pentaneura inconspicua	-	-	-	-	-	-
Perlesta placida complex	-	-	-	-	-	-
Perlinella drymo	-	-	-	-	-	-
Phaenopsectra flavipes	-	-	-	-	-	-
Phylocentropus	-	-	-	-	-	-
Physa	-	-	-	-	-	-
Physidae	-	-	-	-	-	-
Pilaria	-	-	-	-	-	-
Placobdella	-	-	-	-	-	-
Planorbella	-	-	-	-	-	-
Planorbidae	-	-	-	-	-	-
Platyhelminthes	-	-	-	5	-	-
Plauditus	-	-	-	-	-	-
Plauditus bimaculatus	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-
Polycentropodidae	-	-	-	-	-	-
Polycentropus	-	-	-	-	-	-
Polypedilum aviceps	-	-	-	-	-	-
Polypedilum fallax	-	-	-	-	-	-
Polypedilum flavum	-	-	-	-	6	4
Polypedilum halterale grp.	-	-	-	-	-	-
Polypedilum illinoense grp.	3	4	3	-	3	3
Polypedilum scalaenum grp.	1	-	-	-	-	-
Polypedilum sp. a epler	-	-	-	-	-	-
Polypedilum trigonus	-	-	-	-	-	-
Polypedilum tritum	-	-	-	2	-	-
Potthastia	-	-	-	-	-	-
Potthastia longimana	-	-	-	-	-	-
Pristina	-	-	-	1	-	-
Procambarus	-	-	-	-	-	-
Procladius	-	-	-	-	-	-
Procloeon	-	-	-	-	-	-
Progomphus	-	-	-	-	-	-
Progomphus obscurus	-	-	-	-	1	-

As Calculated / STORET station ->	UNI234LV	UNI234LV	23010464	23010464	19010006	19010006
Sample date ->	10/16/2008	10/16/2008	10/8/2008	10/8/2008	11/12/2008	11/12/2008
	65637/40431/	65637/40431/	65567/40448/	65567/40448/	65731/40476/	65731/40476/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Promoresia tardella	-	-	-	-	-	-
Prostoma	-	-	-	-	-	-
Psectrocladius	-	-	-	-	-	-
Pseudochironomus	-	-	-	-	-	1
Pseudocloeon	-	-	-	-	-	-
Pseudocloeon ephippiatum	-	-	-	-	-	1
Pseudocloeon frondale	-	-	-	-	-	-
Pseudocloeon propinquum	-	-	-	-	-	-
Pseudolimnophila	-	-	-	-	-	-
Psychodidae	-	-	-	-	-	-
Pteronarcys dorsata	-	-	-	-	-	-
Pyralidae	-	-	-	-	-	-
Rheocricotopus robacki	-	-	-	-	1	-
Rheotanytarsus	-	-	-	-	-	-
Rheotanytarsus exiguus grp.	2	4	-	-	21	12
Rheotanytarsus pellucidus	-	1	-	-	6	2
Rhyncholimnochares	-	-	-	-	-	-
Robackia claviger	-	-	-	-	-	-
Serratella deficiens	-	-	-	-	2	1
Sialis	-	-	-	-	-	-
Simulium	8	10	1	1	6	7
Simulium jonesi	-	-	-	-	-	-
Sisyra	-	-	-	-	-	-
Slavina appendiculata	-	-	2	-	-	-
Sperchon	-	-	-	-	-	-
Sperchonopsis	-	-	-	-	-	-
Sperchopsis	-	-	-	-	-	-
Sperchopsis tessellatus	-	-	-	-	-	-
Sphaeriidae(mollusca)	4	6	7	5	-	-
Spirosperma	-	-	-	-	-	-
Staphylinidae	-	-	-	-	-	-
Stelechomyia perpulchra	-	-	-	-	1	1
Stempellina	-	-	-	-	-	-
Stempellinella	-	-	-	-	-	-
Stempellinella fimbriata	-	-	-	-	-	-
Stempellinella leptocelloides	-	-	-	-	-	-
Stenacron	-	-	-	-	-	-
Stenacron interpunctatum	-	-	-	-	-	-
Stenelmis	1	-	-	-	11	2
Stenochironomus	2	1	-	-	-	1
Stenus	1	-	-	-	-	-
Stephensoniana trivandrana	-	-	-	-	-	1
Stratiomyidae	-	-	-	-	-	-
Sympetrum	-	-	1	-	-	-
Tabanidae	-	-	-	-	-	-
Taeniopteryx	-	-	-	-	-	-
Tanytarsus	-	-	-	-	-	-
Tanytarsus sp. a epler	-	-	-	-	-	-
Tanytarsus sp. c epler	-	-	-	-	-	-
Tanytarsus sp. d epler	-	-	-	-	1	-

As Calculated / STORET station ->	UNI234LV	UNI234LV	23010464	23010464	19010006	19010006
Sample date ->	10/16/2008	10/16/2008	10/8/2008	10/8/2008	11/12/2008	11/12/2008
	65637/40431/	65637/40431/	65567/40448/	65567/40448/	65731/40476/	65731/40476/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Tanytarsus sp. e epler	-	-	-	-	-	-
Tanytarsus sp. f epler	-	-	21	22	-	-
Tanytarsus sp. l epler	3	2	-	-	-	3
Tanytarsus sp. m epler	-	-	-	-	-	-
Tanytarsus sp. n epler	-	-	-	-	-	-
Tanytarsus sp. o epler	1	-	-	-	-	-
Tanytarsus sp. p epler	-	-	-	-	-	-
Tanytarsus sp. s epler	-	-	-	-	-	-
Tanytarsus sp. t epler	-	-	3	3	-	-
Tanytarsus sp. y epler	-	-	-	-	-	-
Thienemanniella	-	-	-	-	-	-
Thienemanniella lobapodema	-	-	-	-	-	-
Thienemanniella similis	-	-	-	-	-	-
Thienemanniella xena	-	-	-	-	-	-
Thienemannimyia grp.	7	9	-	-	1	1
Tipula	-	-	-	-	-	-
Tipula caloptera	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-
Torrenticola	-	-	-	-	-	-
Triaenodes	1	-	-	-	-	3
Triaenodes ignitus	-	-	-	-	-	-
Triaenodes perna/helo	-	-	-	-	11	-
Tribelos	-	-	-	-	-	-
Tribelos fuscicornis	-	-	-	-	5	2
Tribelos jucundum	13	10	-	-	-	-
Tricorythodes albilineatus	-	-	-	-	-	-
Tubificidae	-	2	-	-	-	-
Tvetenia	-	-	-	-	-	-
Tvetenia vitracies	-	-	-	-	-	-
Vertigo	-	-	-	-	-	-
Viviparus georgianus	-	-	-	-	-	-
Xenochironomus xenolabis	-	-	-	-	-	1
Xestochironomus	-	-	-	-	-	-
Xylotopus par	-	-	-	-	-	-
Zavreliella marmorata	-	-	-	-	-	-
Zavrelimyia sp. a epler	-	-	-	-	-	-

As Calculated / STORET station ->	CLA254LR	CLA254LR	CLA243LV	CLA243LV	WAK158LR	WAK158LR
Sample date ->	11/6/2008	11/6/2008	11/6/2008	11/6/2008	11/13/2008	11/13/2008
	65736/40479/	65736/40479/	65737/40481/	65737/40481/	65715/40524/	65715/40524/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Ablabesmyia mallochi	2	-	-	1	3	2
Ablabesmyia rhamphe grp.	-	-	-	-	-	-
Acentrella	-	-	-	-	-	-
Acentrella parvula	-	-	-	-	-	-
Acerpenna pygmaea	2	1	-	-	-	-
Acroneuria	-	-	-	-	-	-
Acroneuria abnormis	-	-	-	-	-	-
Acroneuria lycorias	-	-	-	-	-	-
Agnetina annulipes	-	-	-	-	-	-
Allonais inaequalis	-	-	-	-	-	-
Amnicola	-	-	-	-	-	-
Amphipoda	-	-	-	-	-	-
Ancylidae	1	1	3	3	-	-
Ancyronyx variegatus	4	1	2	-	-	-
Anisocentropus pyraloides	-	-	-	-	-	-
Apedilum	1	-	-	-	1	-
Argia	4	5	11	5	11	14
Argia fumipennis	-	-	-	-	-	-
Argia tibialis	-	-	-	-	-	-
Arrenurus	1	2	-	-	2	2
Asioplax	-	-	-	-	-	-
Atherix	-	-	-	-	-	-
Atractides	-	-	-	-	-	-
Atrichopogon	-	-	-	-	-	-
Aulodrilus pigueti	-	-	-	-	-	-
Baetidae	-	-	-	-	-	-
Baetis intercalaris	-	-	-	-	-	-
Baetisca becki	-	-	-	-	-	-
Baetisca rogersi	-	-	-	-	-	-
Beardius	-	-	-	-	-	-
Berosus	-	-	-	-	-	-
Bivalvia	-	-	-	-	1	-
Boyeria vinosa	-	-	-	-	-	-
Brachycentrus chelatus	-	-	-	-	-	-
Brachycentrus numerosus	-	-	-	-	-	-
Branchiobdellidae	-	-	-	-	-	-
Bratislavia unidentata	-	-	-	-	-	-
Brillia	-	-	-	-	-	-
Caecidotea	1	1	2	1	5	5
Caenis	-	-	-	-	-	-
Caenis diminuta	-	-	-	-	-	-
Caenis eglinensis	-	-	-	-	-	-
Caenis hilaris	-	-	-	-	-	-
Callibaetis	-	-	-	-	-	-
Callibaetis floridanus	-	-	-	-	-	-
Calopterygidae	-	1	-	-	-	-
Calopteryx	2	-	3	8	-	-
Cambaridae	-	1	1	-	-	3
Campeloma	-	-	-	-	-	-
Cecidomyiidae	-	-	-	-	-	1

As Calculated / STORET station ->	CLA254LR	CLA254LR	CLA243LV	CLA243LV	WAK158LR	WAK158LR
Sample date ->	11/6/2008	11/6/2008	11/6/2008	11/6/2008	11/13/2008	11/13/2008
	65736/40479/	65736/40479/	65737/40481/	65737/40481/	65715/40524/	65715/40524/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Celina	-	-	-	-	-	-
Centroptilum triangulifer	-	-	-	-	-	-
Ceraclea	-	-	-	-	-	-
Ceratopogonidae	-	-	-	-	-	-
Cernotina	-	-	-	-	2	-
Chauliodes	-	-	-	-	-	-
Cheumatopsyche	12	6	6	5	1	1
Chimarra	6	6	8	2	-	-
Chironomus	-	-	-	-	1	-
Choroterpes basalis	-	-	-	-	-	-
Chrysomelidae	-	-	-	-	-	-
Cladotanytarsus	-	-	-	-	-	1
Cladotanytarsus cf. daviesi	-	-	-	-	-	-
Cladotanytarsus sp. d epler	-	-	-	-	-	-
Cladotanytarsus sp. f epler	-	-	-	-	-	-
Cladotanytarsus viridiventris	-	-	-	-	-	-
Clathrosperchon	-	-	-	1	-	-
Climacia areolaris	-	-	-	-	-	-
Clinotanypus	-	-	-	-	-	-
Coenagrionidae	-	-	-	-	-	-
Corbicula fluminea	-	-	-	-	-	-
Corydalidae	-	-	-	-	-	-
Corydalus cornutus	-	2	-	-	-	-
Corynoneura	-	-	1	-	-	1
Crangonyx	-	-	5	8	-	2
Cricotopus	2	-	-	-	-	-
Cricotopus bicinctus	-	-	-	-	-	-
Cricotopus or orthocladius	-	-	-	-	-	-
Cryptochironomus	-	-	-	-	-	-
Cryptotendipes	-	-	-	-	-	-
Curculionidae	-	-	-	-	-	-
Cyrnellus fraternus	-	-	-	-	-	-
Dasyhelea	-	-	-	1	-	-
Dero	-	-	-	-	-	-
Dero digitata complex	-	-	-	-	-	-
Dero flabelliger	-	-	-	-	-	-
Dero furcata	-	-	-	-	-	-
Dero pectinata	-	-	-	-	-	-
Desmopachria	-	-	-	-	-	-
Desserobdella phalera	-	-	-	-	-	-
Dicrotendipes	-	-	-	-	-	-
Dicrotendipes modestus	-	-	-	-	-	-
Dicrotendipes neomodestus	-	-	-	-	-	-
Dicrotendipes simpsoni	-	-	-	-	-	-
Dicrotendipes sp. a epler	-	-	-	-	-	-
Dineutus	-	-	2	-	-	-
Diplectrona	-	-	-	-	-	-
Djalmabatista pulcher	-	-	-	-	1	1
Dryopidae	-	-	-	-	-	-
Dubiraphia vittata	-	1	-	1	4	2

As Calculated / STORET station ->	CLA254LR	CLA254LR	CLA243LV	CLA243LV	WAK158LR	WAK158LR
Sample date ->	11/6/2008	11/6/2008	11/6/2008	11/6/2008	11/13/2008	11/13/2008
	65736/40479/	65736/40479/	65737/40481/	65737/40481/	65715/40524/	65715/40524/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Dytiscidae	-	1	-	-	-	-
Eclipidrilus	3	-	-	-	-	-
Eclipidrilus palustris	-	-	3	-	-	-
Ectopria	-	-	-	-	-	-
Ectopria thoracica	-	-	-	-	1	3
Einfeldia sp. a epler	-	-	-	-	-	-
Elimia	-	-	-	-	-	-
Elmidae	-	-	-	-	-	-
Enallagma	-	-	2	1	1	1
Enallagma coecum	-	-	-	-	-	-
Enchytraeidae	-	-	-	-	-	-
Endotribelos hesperium	-	-	-	-	-	-
Enochrus	-	-	-	-	-	-
Epicordulia princeps regina	-	-	-	-	-	-
Eurylophella doris	8	2	2	2	8	2
Ferrissia	-	-	-	-	-	-
Gastropoda	-	-	-	-	1	-
Geayia	-	-	-	-	-	-
Gerridae	-	-	-	-	1	-
Glossiphoniidae	-	-	-	-	-	-
Goeldichironomus	-	-	-	-	-	-
Goeldichironomus cf. natans	-	-	-	-	-	-
Goeldichironomus holoprasinus	-	-	-	-	-	-
Gomphidae	-	-	-	-	1	-
Gomphus	-	-	-	-	-	-
Gonielmis dietrichi	-	-	-	-	-	-
Gyrinidae	-	-	-	-	-	-
Gyrinus	-	-	-	-	-	-
Haemonais waldvogeli	-	-	-	-	-	-
Hagenius brevistylus	-	-	-	-	-	-
Haitia	-	-	-	-	-	-
Hayesomyia senata	-	-	-	-	-	-
Helichus	-	-	-	-	-	-
Helichus lithophilus	-	-	-	-	-	-
Helobdella stagnalis	-	-	-	-	-	-
Helobdella triserialis	-	-	-	-	-	-
Hemerodromia	2	2	2	1	1	1
Heptageniidae	-	-	-	-	-	-
Hetaerina	-	-	-	-	-	-
Hetaerina titia	-	-	-	-	-	-
Hexagenia	-	-	-	-	-	-
Hexatoma	-	-	-	-	-	-
Hirudinea	-	-	-	-	-	-
Hyalella azteca	-	-	-	-	-	-
Hydraena	-	-	-	-	-	-
Hydrobiidae	-	-	-	-	-	-
Hydrodroma	-	-	-	-	-	-
Hydrometra	-	-	-	-	-	-
Hydrophilidae	-	-	-	-	-	-
Hydropsyche	-	-	-	2	-	-

As Calculated / STORET station ->	CLA254LR	CLA254LR	CLA243LV	CLA243LV	WAK158LR	WAK158LR
Sample date ->	11/6/2008	11/6/2008	11/6/2008	11/6/2008	11/13/2008	11/13/2008
	65736/40479/	65736/40479/	65737/40481/	65737/40481/	65715/40524/	65715/40524/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Hydropsyche incommoda	-	-	-	-	-	-
Hydropsyche mississippiensis	-	-	-	-	-	-
Hydroptila	1	6	-	-	1	-
Hydrovatus	-	-	-	-	-	-
Hygrobates	-	-	-	-	-	-
Ischnura	-	-	-	-	-	-
Isonychia	-	-	-	-	-	-
Kiefferulus	-	-	-	-	-	-
Koenikea	-	-	-	-	-	-
Krendowskia	-	-	-	-	-	-
Labrundinia	-	-	-	-	-	-
Labrundinia becki	-	1	-	-	-	-
Labrundinia johannseni	-	-	-	-	-	-
Labrundinia pilosella	-	-	-	-	-	-
Labrundinia sp. 3 nr. virescens	-	-	-	-	-	-
Laccophilus	-	-	-	-	-	-
Laevapex	-	-	-	-	-	-
Larsia	-	-	-	-	-	-
Larsia decolorata	-	-	-	-	-	-
Lauterborniella agrayloides	-	-	-	-	-	-
Lebertia	-	-	-	-	-	-
Lepidoptera	-	-	-	-	-	-
Lepidostoma	-	-	-	-	-	-
Leptophlebiidae	2	-	2	1	14	11
Leuctra	3	1	6	1	-	-
Libellulidae	-	-	-	-	-	-
Limnesia	-	-	-	-	-	-
Limnodrilus hoffmeisteri	-	-	-	-	-	-
Lioporeus	-	-	-	-	3	-
Lirceus	-	-	-	-	-	-
Lopescladius	-	-	-	-	-	-
Lumbriculus variegatus	-	-	-	-	-	-
Lymnaeidae	-	-	-	-	-	-
Lype diversa	-	1	-	1	-	-
Maccaffertium	2	-	4	2	2	2
Maccaffertium exiguum	-	3	-	-	-	-
Maccaffertium smithae	-	-	-	-	-	-
Macromia	-	-	-	-	-	-
Macromia illinoiensis georgina	-	-	-	-	-	-
Macronychus glabratus	1	-	-	-	-	-
Macrostemum carolina	-	-	-	-	-	-
Mayatrichia ayama	1	-	-	-	-	-
Megistocera	-	-	-	-	-	-
Mesonoterus	-	-	-	-	-	-
Mesovelia	-	-	1	-	-	-
Micrasema	-	-	-	-	-	-
Microcylloepus pusillus	24	18	9	12	11	10
Micromenetus	-	-	-	-	-	-
Micromenetus dilatatus avus	-	-	-	-	-	-
Micropsectra	-	-	-	-	-	-

As Calculated / STORET station ->	CLA254LR	CLA254LR	CLA243LV	CLA243LV	WAK158LR	WAK158LR
Sample date ->	11/6/2008	11/6/2008	11/6/2008	11/6/2008	11/13/2008	11/13/2008
	65736/40479/	65736/40479/	65737/40481/	65737/40481/	65715/40524/	65715/40524/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Microtendipes	-	-	-	-	-	1
Microtendipes pedellus grp.	1	1	-	1	-	-
Microtendipes rydalensis grp.	-	-	-	-	-	-
Microvelia	-	-	-	-	-	-
Mideopsis	-	-	-	-	4	2
Momonia	-	-	-	-	4	6
Monopelopia	-	-	-	-	-	-
Mooreobdella	-	-	-	-	-	-
Naididae	-	-	-	-	-	-
Nais communis complex	-	-	-	-	-	-
Nais(animal)	-	-	-	-	-	-
Nanocladius	-	-	-	-	-	-
Nectopsyche	-	4	-	-	-	-
Nectopsyche exquisita	-	-	-	-	14	15
Nectopsyche pavida	-	-	-	-	1	-
Neoephemera	-	-	-	-	-	-
Neoperla	4	4	-	-	-	-
Neoplasta	-	-	-	-	-	-
Neoplea	-	-	-	-	-	-
Neoporus	-	-	1	1	-	-
Neotrichia	3	2	1	3	-	5
Neureclipsis	-	-	-	-	-	-
Neureclipsis crepuscularis	-	-	-	-	-	-
Neurocordulia	-	-	-	-	-	-
Neurocordulia alabamensis	-	-	-	-	-	-
Nigronia	-	-	-	-	-	-
Nigronia serricornis	-	-	-	-	-	-
Nilotanypus americanus	-	-	-	-	-	-
Nilotanypus fimbriatus	-	-	-	-	-	-
Nilothauma	-	-	-	-	-	-
Notomicrus nanulus	-	-	-	-	-	-
Nyctiophylax	-	-	1	1	-	-
Oecetis	2	3	4	6	-	3
Oecetis avara	-	-	-	-	-	-
Oecetis cinerascens	-	-	-	-	-	-
Oecetis georgia	-	-	-	-	-	-
Oecetis sphyra/morsei	-	-	-	-	-	-
Ora/scirtes	-	-	-	-	-	-
Oribatida	-	2	-	-	-	-
Ormosia	-	-	-	-	-	-
Orthocladius annectens	-	-	-	-	-	-
Orthotrichia	-	-	-	-	-	-
Oxus	-	-	-	-	-	-
Oxyethira	-	-	-	1	-	-
Pachydiplax longipennis	-	-	-	-	1	-
Palaemonetes	-	-	-	-	-	-
Palpomyia/bezzia grp.	-	1	2	-	3	1
Parachaetocladius abnobaeus	-	-	-	-	-	-
Parachironomus	-	-	-	-	-	-
Parachironomus chaetoalus complex	-	-	-	-	-	-

As Calculated / STORET station ->	CLA254LR	CLA254LR	CLA243LV	CLA243LV	WAK158LR	WAK158LR
Sample date ->	11/6/2008	11/6/2008	11/6/2008	11/6/2008	11/13/2008	11/13/2008
	65736/40479/	65736/40479/	65737/40481/	65737/40481/	65715/40524/	65715/40524/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Parachironomus supparilis	-	-	-	-	-	-
Paracladopelma	-	-	-	-	-	-
Paracymus	-	-	-	-	-	-
Parakiefferiella sp. b epler	-	-	-	-	1	-
Parakiefferiella sp. f epler	-	-	-	-	-	-
Paralauterborniella nigrohalterale	-	-	-	-	-	-
Paraleptophlebia volitans	-	-	-	-	-	-
Paramerina	-	-	-	-	-	-
Parametriocnemus	-	-	-	-	-	-
Paratanytarsus	-	-	-	-	-	-
Paratanytarsus dissimilis	-	-	-	-	-	-
Paratanytarsus quadratus	-	-	-	-	-	-
Paratendipes subaequalis	-	-	-	-	-	-
Pelonomus obscurus	-	-	-	-	-	-
Peltodytes	-	-	-	-	-	-
Peltodytes dietrichi	-	-	-	-	-	-
Pentaneura inconspicua	-	-	-	-	-	-
Perlesta placida complex	-	-	-	-	-	-
Perlinella drymo	-	-	-	-	-	-
Phaenopsectra flavipes	-	-	-	-	-	-
Phylocentropus	-	-	-	-	-	-
Physa	-	-	-	-	-	-
Physidae	-	-	-	-	-	-
Pilaria	-	-	-	-	-	-
Placobdella	-	-	-	-	-	-
Planorbella	-	-	-	-	-	-
Planorbidae	-	-	-	-	-	-
Platyhelminthes	-	-	-	-	-	-
Plauditus	-	-	-	-	-	-
Plauditus bimaculatus	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-
Polycentropodidae	-	-	-	-	-	-
Polycentropus	-	-	-	-	-	-
Polypedilum aviceps	-	-	-	-	-	-
Polypedilum fallax	-	-	-	-	-	-
Polypedilum flavum	21	27	15	14	2	1
Polypedilum halterale grp.	-	-	-	-	-	-
Polypedilum illinoense grp.	-	-	4	1	1	1
Polypedilum scalaenum grp.	-	-	1	-	-	-
Polypedilum sp. a epler	-	-	-	-	-	-
Polypedilum trigonus	-	-	-	-	-	-
Polypedilum tritum	-	-	-	-	-	-
Potthastia	-	-	-	-	-	-
Potthastia longimana	-	-	-	-	-	-
Pristina	-	-	-	-	-	-
Procambarus	-	-	-	-	-	-
Procladius	-	-	-	-	-	-
Procloeon	-	-	-	-	-	-
Progomphus	-	-	2	-	-	3
Progomphus obscurus	-	-	-	-	-	-

As Calculated / STORET station ->	CLA254LR	CLA254LR	CLA243LV	CLA243LV	WAK158LR	WAK158LR
Sample date ->	11/6/2008	11/6/2008	11/6/2008	11/6/2008	11/13/2008	11/13/2008
	65736/40479/	65736/40479/	65737/40481/	65737/40481/	65715/40524/	65715/40524/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Promoresia tardella	-	-	-	-	-	-
Prostoma	-	-	-	-	-	-
Psectrocladius	-	-	-	-	-	-
Pseudochironomus	-	-	-	-	3	10
Pseudocloeon	4	5	-	-	-	-
Pseudocloeon ephippiatum	-	-	-	-	-	-
Pseudocloeon frondale	-	-	-	-	-	-
Pseudocloeon propinquum	-	-	-	-	-	-
Pseudolimnophila	-	-	-	-	-	-
Psychodidae	-	-	-	-	-	-
Pteronarcys dorsata	-	-	-	-	-	-
Pyralidae	-	-	-	-	-	-
Rheocricotopus robacki	-	4	-	-	-	-
Rheotanytarsus	-	-	-	-	-	-
Rheotanytarsus exiguus grp.	1	-	16	16	-	4
Rheotanytarsus pellucidus	-	2	-	-	-	-
Rhyncholimnochares	1	-	-	-	-	-
Robackia claviger	-	-	-	-	-	-
Serratella deficiens	-	-	-	-	-	-
Sialis	-	-	-	-	-	1
Simulium	-	1	-	3	-	-
Simulium jonesi	-	-	-	-	-	-
Sisyra	-	-	-	-	-	-
Slavina appendiculata	-	-	-	-	-	-
Sperchon	3	-	-	-	-	-
Sperchonopsis	-	-	-	-	-	-
Sperchopsis	-	-	-	-	-	-
Sperchopsis tessellatus	-	-	-	-	-	-
Sphaeriidae(mollusca)	-	1	-	-	-	-
Spirosperma	-	-	-	-	-	-
Staphylinidae	-	-	-	-	-	-
Stelechomyia perpulchra	1	1	-	-	-	-
Stempellina	1	-	-	-	-	-
Stempellinella	-	-	-	-	-	-
Stempellinella fimbriata	-	-	-	-	-	-
Stempellinella leptocelloides	-	-	-	-	-	-
Stenacron	-	-	-	-	-	-
Stenacron interpunctatum	-	-	-	-	-	-
Stenelmis	8	2	7	14	-	4
Stenochironomus	2	2	1	1	8	2
Stenus	-	-	-	-	-	-
Stephensoniana trivandrana	-	-	-	-	-	-
Stratiomyidae	-	-	-	-	-	-
Sympetrum	-	-	-	-	-	-
Tabanidae	-	-	-	-	-	-
Taeniopteryx	-	-	-	-	5	1
Tanytarsus	-	-	-	-	-	-
Tanytarsus sp. a epler	-	-	-	-	1	-
Tanytarsus sp. c epler	-	-	-	-	-	1
Tanytarsus sp. d epler	-	-	2	1	3	1

As Calculated / STORET station ->	CLA254LR	CLA254LR	CLA243LV	CLA243LV	WAK158LR	WAK158LR
Sample date ->	11/6/2008	11/6/2008	11/6/2008	11/6/2008	11/13/2008	11/13/2008
	65736/40479/	65736/40479/	65737/40481/	65737/40481/	65715/40524/	65715/40524/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Tanytarsus sp. e epler	-	-	-	-	-	-
Tanytarsus sp. f epler	-	-	-	-	-	-
Tanytarsus sp. l epler	1	-	-	-	5	2
Tanytarsus sp. m epler	1	-	-	-	-	-
Tanytarsus sp. n epler	-	-	-	-	-	-
Tanytarsus sp. o epler	-	-	-	-	-	-
Tanytarsus sp. p epler	-	-	-	-	-	-
Tanytarsus sp. s epler	-	1	-	-	-	-
Tanytarsus sp. t epler	-	-	-	-	-	-
Tanytarsus sp. y epler	-	-	-	-	-	-
Thienemanniella	-	-	-	-	-	-
Thienemanniella lobapodema	-	-	-	-	-	-
Thienemanniella similis	-	-	-	-	-	-
Thienemanniella xena	-	-	-	-	-	-
Thienemannimyia grp.	-	1	-	2	1	2
Tipula	-	-	-	-	-	-
Tipula caloptera	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-
Torrenticola	-	-	-	-	-	-
Triaenodes	5	10	20	25	10	9
Triaenodes ignitus	-	-	-	-	-	-
Triaenodes perna/helo	-	-	-	-	-	-
Tribelos	-	-	-	-	-	-
Tribelos fuscicornis	-	-	-	-	-	-
Tribelos jucundum	-	-	-	-	13	6
Tricorythodes albilineatus	-	-	-	-	-	2
Tubificidae	-	-	-	1	-	-
Tvetenia	-	-	-	-	-	-
Tvetenia vitracies	3	2	-	-	-	-
Vertigo	-	-	-	-	-	-
Viviparus georgianus	-	-	-	-	-	-
Xenochironomus xenolabis	-	1	-	-	-	-
Xestochironomus	-	-	-	-	-	-
Xylotopus par	-	-	-	1	-	-
Zavreliella marmorata	-	-	-	-	-	-
Zavrelimyia sp. a epler	-	-	-	-	-	-

As Calculated / STORET station ->	NUTREF001	NUTREF001	GAD106GS	GAD106GS	GLA630GS	GLA630GS
Sample date ->	11/20/2008	11/20/2008	11/20/2008	11/20/2008	12/16/2008	12/16/2008
Taxon Name / SampleID/BenthID ->	65739/40534/ Rep 1	65739/40534/ Rep 2	65741/40537/ Rep 1	65741/40537/ Rep 2	65891/40544/ Rep 1	65891/40544/ Rep 2
Ablabesmyia mallochi	-	-	-	1	-	1
Ablabesmyia rhamphe grp.	-	-	-	-	-	-
Acentrella	-	-	-	-	-	-
Acentrella parvula	-	-	-	-	-	-
Acerpenna pygmaea	-	-	-	-	-	-
Acroneuria	-	-	-	-	-	-
Acroneuria abnormis	-	-	-	-	-	-
Acroneuria lycorias	-	-	-	2	-	-
Agnetina annulipes	-	-	-	-	-	-
Allonais inaequalis	-	-	-	-	-	-
Amnicola	-	-	-	-	-	-
Amphipoda	-	-	-	-	-	-
Ancylidae	-	2	-	-	-	-
Ancyronyx variegatus	-	-	6	4	-	-
Anisocentropus pyraloides	-	-	1	2	-	-
Apedilum	-	-	-	-	-	-
Argia	-	-	3	1	-	-
Argia fumipennis	-	-	-	-	-	-
Argia tibialis	-	-	-	-	-	-
Arrenurus	-	-	-	-	-	-
Asioplax	-	-	-	-	-	-
Atherix	2	1	-	-	-	-
Atractides	-	-	1	-	-	-
Atrichopogon	-	-	-	-	1	-
Aulodrilus pigueti	-	-	-	-	-	-
Baetidae	2	2	-	-	8	5
Baetis intercalaris	-	-	-	-	-	-
Baetisca becki	1	-	-	-	-	-
Baetisca rogersi	-	-	-	-	-	-
Beardius	-	-	-	-	-	-
Berosus	-	-	-	-	-	-
Bivalvia	-	-	-	-	-	-
Boyeria vinosa	-	-	-	1	-	-
Brachycentrus chelatus	-	-	-	-	-	-
Brachycentrus numerosus	-	-	-	-	-	-
Branchiobdellidae	-	-	-	-	-	-
Bratislavia unidentata	-	-	-	-	-	-
Brillia	-	-	-	-	-	-
Caecidotea	9	5	-	-	-	-
Caenis	1	2	2	-	4	12
Caenis diminuta	-	-	-	-	-	-
Caenis eglinensis	-	-	-	-	-	-
Caenis hilaris	-	-	-	-	-	-
Callibaetis	-	-	-	-	-	-
Callibaetis floridanus	-	-	-	-	-	-
Calopterygidae	-	-	-	-	-	-
Calopteryx	-	1	-	-	-	-
Cambaridae	-	-	2	2	-	-
Campeloma	-	-	-	-	-	-
Cecidomyiidae	-	-	-	-	-	-

As Calculated / STORET station ->	NUTREF001	NUTREF001	GAD106GS	GAD106GS	GLA630GS	GLA630GS
Sample date ->	11/20/2008	11/20/2008	11/20/2008	11/20/2008	12/16/2008	12/16/2008
	65739/40534/	65739/40534/	65741/40537/	65741/40537/	65891/40544/	65891/40544/
Taxon Name / SampleID/BenthID ->	Rep 1	Rep 2	Rep 1	Rep 2	Rep 1	Rep 2
Celina	-	-	-	-	-	-
Centroptilum triangulifer	-	-	-	-	-	-
Ceraclea	-	5	4	4	-	-
Ceratopogonidae	-	-	-	-	-	-
Cernotina	-	-	-	-	-	-
Chauliodes	-	-	-	-	-	-
Cheumatopsyche	4	4	16	13	41	42
Chimarra	-	1	-	-	-	-
Chironomus	-	-	-	-	-	-
Choroterpes basalis	-	-	-	-	-	-
Chrysomelidae	-	-	-	-	-	-
Cladotanytarsus	-	-	-	-	-	-
Cladotanytarsus cf. daviesi	-	-	-	-	-	-
Cladotanytarsus sp. d epler	-	-	-	-	-	-
Cladotanytarsus sp. f epler	-	-	-	-	-	-
Cladotanytarsus viridiventris	-	-	-	-	-	-
Clathrosperchon	-	1	2	1	-	-
Climacia areolaris	1	-	-	-	-	1
Clinotanypus	-	-	-	-	-	-
Coenagrionidae	-	-	-	-	-	-
Corbicula fluminea	-	-	-	-	-	-
Corydalidae	-	-	-	-	-	-
Corydalus cornutus	-	-	-	-	-	-
Corynoneura	-	-	-	-	-	-
Crangonyx	-	-	-	-	-	-
Cricotopus	-	-	-	-	-	-
Cricotopus bicinctus	-	-	-	-	-	-
Cricotopus or orthocladius	-	-	-	-	-	-
Cryptochironomus	-	-	-	-	-	-
Cryptotendipes	-	-	-	-	-	-
Curculionidae	-	-	-	-	-	-
Cyrnellus fraternus	-	-	-	-	-	-
Dasyhelea	-	-	-	2	-	-
Dero	-	-	-	-	-	-
Dero digitata complex	-	-	-	-	-	-
Dero flabelliger	-	-	-	-	-	-
Dero furcata	-	-	-	-	-	-
Dero pectinata	-	-	-	-	-	-
Desmopachria	-	-	-	-	-	-
Desserobdella phalera	-	-	-	-	-	-
Dicrotendipes	-	-	-	-	-	-
Dicrotendipes modestus	-	-	-	-	-	-
Dicrotendipes neomodestus	-	-	-	-	-	-
Dicrotendipes simpsoni	-	-	-	-	-	-
Dicrotendipes sp. a epler	-	-	-	-	-	-
Dineutus	-	-	1	1	-	-
Diplectrona	-	-	-	-	-	-
Djalmabatista pulcher	-	-	1	1	-	-
Dryopidae	-	-	-	-	-	-
Dubiraphia vittata	-	-	-	-	1	-

As Calculated / STORET station ->	NUTREF001	NUTREF001	GAD106GS	GAD106GS	GLA630GS	GLA630GS
Sample date ->	11/20/2008	11/20/2008	11/20/2008	11/20/2008	12/16/2008	12/16/2008
Taxon Name / SampleID/BenthID ->	65739/40534/ Rep 1	65739/40534/ Rep 2	65741/40537/ Rep 1	65741/40537/ Rep 2	65891/40544/ Rep 1	65891/40544/ Rep 2
Dytiscidae	-	-	-	-	-	-
Eclipidrilus	-	-	-	-	-	-
Eclipidrilus palustris	-	-	-	-	-	-
Ectopria	-	-	1	-	-	-
Ectopria thoracica	-	2	-	-	-	-
Einfeldia sp. a epler	-	-	-	-	-	-
Elimia	-	-	-	-	-	-
Elmidae	-	-	-	-	-	-
Enallagma	-	-	-	-	2	2
Enallagma coecum	-	-	-	-	-	-
Enchytraeidae	-	-	-	-	-	-
Endotribelos hesperium	-	-	-	-	-	-
Enochrus	-	-	-	-	-	-
Epicordulia princeps regina	-	-	-	-	-	-
Eurylophella doris	71	61	7	5	-	-
Ferrissia	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-
Geayia	-	-	-	-	-	-
Gerridae	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-
Goeldichironomus	-	-	-	-	-	-
Goeldichironomus cf. natans	-	-	-	-	-	-
Goeldichironomus holoprasinus	-	-	-	-	-	-
Gomphidae	-	-	-	-	-	-
Gomphus	-	-	1	-	-	-
Gonielmis dietrichi	-	-	-	1	-	-
Gyrinidae	-	-	-	-	-	-
Gyrinus	-	-	-	-	-	-
Haemonais waldvogeli	-	-	-	-	-	-
Hagenius brevistylus	-	-	-	-	-	-
Haitia	-	-	-	-	-	-
Hayesomyia senata	-	-	-	-	-	-
Helichus	-	-	-	-	-	-
Helichus lithophilus	-	-	-	-	-	-
Helobdella stagnalis	-	-	-	-	-	-
Helobdella triserialis	-	-	-	-	-	-
Hemerodromia	-	-	-	-	-	-
Heptageniidae	-	-	-	-	-	-
Hetaerina	-	-	-	-	-	-
Hetaerina titia	-	-	-	-	-	-
Hexagenia	-	-	-	-	-	-
Hexatoma	-	-	-	-	-	-
Hirudinea	-	-	-	-	-	-
Hyalella azteca	-	-	-	-	-	2
Hydraena	-	-	-	-	-	-
Hydrobiidae	-	1	-	-	-	-
Hydrodroma	-	-	-	-	-	-
Hydrometra	-	-	-	-	-	-
Hydrophilidae	-	-	-	-	-	-
Hydropsyche	7	4	2	2	-	-

As Calculated / STORET station ->	NUTREF001	NUTREF001	GAD106GS	GAD106GS	GLA630GS	GLA630GS
Sample date ->	11/20/2008	11/20/2008	11/20/2008	11/20/2008	12/16/2008	12/16/2008
Taxon Name / SampleID/BenthID ->	65739/40534/ Rep 1	65739/40534/ Rep 2	65741/40537/ Rep 1	65741/40537/ Rep 2	65891/40544/ Rep 1	65891/40544/ Rep 2
Hydropsyche incommoda	-	-	-	-	-	-
Hydropsyche mississippiensis	-	-	-	-	-	-
Hydroptila	-	-	-	-	-	-
Hydrovatus	-	-	-	-	-	-
Hygrobates	-	-	-	-	-	-
Ischnura	-	-	-	-	-	-
Isonychia	-	-	-	-	-	-
Kiefferulus	-	-	-	-	-	-
Koenikea	-	-	-	-	-	-
Krendowskia	-	-	-	-	-	-
Labrundinia	-	-	-	-	-	-
Labrundinia becki	-	-	-	-	-	-
Labrundinia johannseni	-	-	-	-	-	-
Labrundinia pilosella	-	-	-	-	-	-
Labrundinia sp. 3 nr. virescens	-	-	-	-	-	-
Laccophilus	-	-	-	-	-	-
Laevapex	-	-	-	-	-	-
Larsia	-	-	-	-	-	-
Larsia decolorata	-	-	-	-	-	-
Lauterborniella agrayloides	-	-	-	-	-	-
Lebertia	-	-	-	1	-	-
Lepidoptera	-	-	-	-	-	-
Lepidostoma	-	-	1	-	-	-
Leptophlebiidae	4	5	9	5	1	-
Leuctra	-	-	-	-	-	-
Libellulidae	-	-	-	-	-	-
Limnesia	-	-	-	-	-	-
Limnodrilus hoffmeisteri	-	-	-	-	-	-
Lioporeus	-	-	-	-	-	-
Lirceus	-	-	-	-	-	-
Lopescladius	-	-	-	-	-	-
Lumbriculus variegatus	-	-	-	-	-	-
Lymnaeidae	-	-	-	-	-	-
Lype diversa	-	-	2	-	-	-
Maccaffertium	4	3	11	13	2	6
Maccaffertium exiguum	-	-	-	-	-	-
Maccaffertium smithae	-	-	-	-	-	-
Macromia	-	-	-	-	-	-
Macromia illinoiensis georgina	-	-	-	-	-	-
Macronychus glabratus	-	1	-	2	-	-
Macrostemum carolina	-	-	-	-	-	-
Mayatrichia ayama	-	-	-	-	-	-
Megistocera	-	-	-	-	-	-
Mesonoterus	-	-	-	-	-	-
Mesovelia	-	-	-	-	-	-
Micrasema	-	-	-	-	-	-
Microcylloepus pusillus	5	5	4	5	25	22
Micromenetus	-	-	-	-	-	-
Micromenetus dilatatus avus	-	-	-	-	-	-
Micropsectra	-	-	-	-	-	-

As Calculated / STORET station ->	NUTREF001	NUTREF001	GAD106GS	GAD106GS	GLA630GS	GLA630GS
Sample date ->	11/20/2008	11/20/2008	11/20/2008	11/20/2008	12/16/2008	12/16/2008
Taxon Name / SampleID/BenthID ->	65739/40534/ Rep 1	65739/40534/ Rep 2	65741/40537/ Rep 1	65741/40537/ Rep 2	65891/40544/ Rep 1	65891/40544/ Rep 2
Microtendipes	-	-	-	-	-	-
Microtendipes pedellus grp.	-	-	-	-	-	-
Microtendipes rydalensis grp.	-	-	-	-	-	-
Microvelia	-	-	-	-	-	-
Mideopsis	-	-	-	1	-	-
Momonia	-	-	-	-	-	-
Monopelopia	-	-	-	-	-	-
Mooreobdella	-	-	-	-	-	-
Naididae	-	-	-	-	-	-
Nais communis complex	-	-	-	-	-	-
Nais(animal)	-	-	-	-	-	-
Nanocladius	-	-	-	-	-	-
Nectopsyche	-	-	-	-	-	-
Nectopsyche exquisita	-	-	-	-	-	-
Nectopsyche pavida	2	2	-	-	13	10
Neoephemera	5	11	-	-	-	-
Neoperla	-	-	-	-	-	-
Neoplasta	-	-	-	-	-	-
Neoplea	-	-	-	-	-	-
Neoporus	1	-	-	-	-	-
Neotrichia	-	-	-	-	1	-
Neureclipsis	-	-	-	-	-	-
Neureclipsis crepuscularis	-	-	-	-	-	-
Neurocordulia	-	-	-	-	-	-
Neurocordulia alabamensis	-	-	-	-	-	-
Nigronia	-	-	-	-	-	-
Nigronia serricornis	-	-	-	-	-	-
Nilotanypus americanus	-	-	-	-	-	-
Nilotanypus fimbriatus	-	-	-	-	-	-
Nilothauma	-	-	-	-	-	-
Notomicrus nanulus	-	-	-	-	-	-
Nyctiophylax	-	-	-	-	-	-
Oecetis	1	-	5	2	-	-
Oecetis avara	-	-	-	-	-	-
Oecetis cinerascens	-	-	-	-	-	-
Oecetis georgia	-	-	-	-	-	-
Oecetis sphyra/morsei	-	-	-	-	-	-
Ora/scirtes	-	-	-	-	-	-
Oribatida	-	-	-	-	-	-
Ormosia	-	-	-	-	-	-
Orthocladius annectens	-	-	-	-	-	-
Orthotrichia	-	-	-	-	-	-
Oxus	-	-	-	-	-	-
Oxyethira	-	-	-	-	-	-
Pachydiplax longipennis	-	-	-	-	-	-
Palaemonetes	-	-	-	-	-	-
Palpomyia/bezzia grp.	-	-	-	-	-	-
Parachaetocladius abnobaeus	-	-	-	-	-	-
Parachironomus	-	-	-	-	-	-
Parachironomus chaetoalus complex	-	-	-	-	-	-

As Calculated / STORET station ->	NUTREF001	NUTREF001	GAD106GS	GAD106GS	GLA630GS	GLA630GS
Sample date ->	11/20/2008	11/20/2008	11/20/2008	11/20/2008	12/16/2008	12/16/2008
Taxon Name / SampleID/BenthID ->	65739/40534/ Rep 1	65739/40534/ Rep 2	65741/40537/ Rep 1	65741/40537/ Rep 2	65891/40544/ Rep 1	65891/40544/ Rep 2
Parachironomus supparilis	-	-	-	-	-	-
Paracladopelma	-	-	-	-	-	-
Paracymus	-	-	-	-	-	-
Parakiefferiella sp. b epler	-	-	-	-	-	-
Parakiefferiella sp. f epler	-	-	-	-	-	-
Paralauterborniella nigrohalterale	-	-	-	-	-	-
Paraleptophlebia volitans	-	-	-	-	-	-
Paramerina	-	-	-	-	-	-
Parametriocnemus	-	-	-	10	-	-
Paratanytarsus	-	-	-	-	-	-
Paratanytarsus dissimilis	-	-	-	-	-	-
Paratanytarsus quadratus	-	-	-	-	-	-
Paratendipes subaequalis	-	-	-	-	1	-
Pelonomus obscurus	-	-	-	-	-	-
Peltodytes	-	-	-	-	-	-
Peltodytes dietrichi	-	-	-	-	-	-
Pentaneura inconspicua	-	-	-	-	2	1
Perlesta placida complex	-	-	-	-	-	-
Perlinella drymo	-	-	3	-	-	-
Phaenopsectra flavipes	-	-	-	-	-	-
Phylocentropus	-	-	-	-	-	-
Physa	-	-	-	-	-	-
Physidae	-	-	-	-	-	-
Pilaria	-	-	-	-	-	-
Placobdella	-	-	-	-	-	-
Planorbella	-	-	-	-	-	-
Planorbidae	-	-	-	-	-	-
Platyhelminthes	-	-	-	-	-	-
Plauditus	-	-	-	-	-	-
Plauditus bimaculatus	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-
Polycentropodidae	-	-	-	-	-	-
Polycentropus	-	-	-	-	-	-
Polypedilum aviceps	-	-	-	-	-	-
Polypedilum fallax	-	-	-	1	-	-
Polypedilum flavum	1	-	14	-	4	2
Polypedilum halterale grp.	-	-	1	-	-	-
Polypedilum illinoense grp.	-	-	-	3	1	-
Polypedilum scalaenum grp.	-	-	-	-	-	-
Polypedilum sp. a epler	-	-	-	-	-	-
Polypedilum trigonus	-	-	-	-	-	-
Polypedilum tritum	1	-	-	-	-	-
Potthastia	-	-	-	-	-	-
Potthastia longimana	-	-	-	-	-	-
Pristina	-	-	-	-	-	-
Procambarus	3	3	-	-	-	-
Procladius	-	-	-	-	-	-
Procloeon	-	-	-	-	-	-
Progomphus	-	-	-	-	-	-
Progomphus obscurus	-	-	-	-	-	-

As Calculated / STORET station ->	NUTREF001	NUTREF001	GAD106GS	GAD106GS	GLA630GS	GLA630GS
Sample date ->	11/20/2008	11/20/2008	11/20/2008	11/20/2008	12/16/2008	12/16/2008
Taxon Name / SampleID/BenthID ->	65739/40534/ Rep 1	65739/40534/ Rep 2	65741/40537/ Rep 1	65741/40537/ Rep 2	65891/40544/ Rep 1	65891/40544/ Rep 2
Promoresia tardella	-	-	-	-	-	-
Prostoma	-	-	-	-	-	-
Psectrocladius	-	-	-	-	-	-
Pseudochironomus	-	-	-	-	-	-
Pseudocloeon	-	-	1	-	-	-
Pseudocloeon ephippiatum	-	-	-	-	-	-
Pseudocloeon frondale	-	-	-	-	-	-
Pseudocloeon propinquum	-	-	-	-	-	-
Pseudolimnophila	-	-	-	-	-	-
Psychodidae	-	-	-	-	-	-
Pteronarcys dorsata	-	1	-	-	-	-
Pyralidae	-	-	-	-	-	-
Rheocricotopus robacki	-	-	-	1	-	-
Rheotanytarsus	-	-	-	-	-	-
Rheotanytarsus exiguus grp.	6	3	-	-	41	47
Rheotanytarsus pellucidus	-	2	3	1	1	1
Rhyncholimnochares	-	-	-	-	-	-
Robackia claviger	-	-	-	-	-	-
Serratella deficiens	-	-	-	-	-	-
Sialis	-	-	-	-	-	-
Simulium	2	-	3	6	2	1
Simulium jonesi	-	-	-	-	-	-
Sisyra	-	-	-	-	-	-
Slavina appendiculata	-	-	-	-	-	-
Sperchon	-	-	-	-	-	-
Sperchonopsis	-	-	-	-	-	-
Sperchopsis	-	-	-	-	-	-
Sperchopsis tessellatus	-	-	-	-	-	-
Sphaeriidae(mollusca)	-	1	-	-	-	1
Spirosperma	-	-	-	-	-	-
Staphylinidae	-	-	-	-	-	-
Stelechomyia perpulchra	-	-	1	1	-	-
Stempellina	-	-	-	-	-	-
Stempellinella	-	-	-	-	-	-
Stempellinella fimbriata	-	-	-	-	-	-
Stempellinella leptocelloides	-	-	-	-	-	-
Stenacron	-	-	1	-	-	-
Stenacron interpunctatum	-	-	-	-	-	-
Stenelmis	4	6	1	2	2	1
Stenochironomus	-	2	1	-	1	-
Stenus	-	-	-	-	-	-
Stephensoniana trivandrana	-	-	-	-	-	-
Stratiomyidae	-	-	-	-	-	-
Sympetrum	-	-	-	-	-	-
Tabanidae	-	-	-	-	-	-
Taeniopteryx	3	2	26	37	-	-
Tanytarsus	-	-	-	-	-	-
Tanytarsus sp. a epler	-	-	-	-	-	-
Tanytarsus sp. c epler	-	-	-	-	-	-
Tanytarsus sp. d epler	-	-	-	-	-	-

As Calculated / STORET station ->	NUTREF001	NUTREF001	GAD106GS	GAD106GS	GLA630GS	GLA630GS
Sample date ->	11/20/2008	11/20/2008	11/20/2008	11/20/2008	12/16/2008	12/16/2008
Taxon Name / SampleID/BenthID ->	65739/40534/ Rep 1	65739/40534/ Rep 2	65741/40537/ Rep 1	65741/40537/ Rep 2	65891/40544/ Rep 1	65891/40544/ Rep 2
Tanytarsus sp. e epler	-	-	-	-	-	-
Tanytarsus sp. f epler	-	-	-	-	-	-
Tanytarsus sp. l epler	-	-	-	-	-	-
Tanytarsus sp. m epler	-	2	3	1	-	-
Tanytarsus sp. n epler	-	-	-	-	-	-
Tanytarsus sp. o epler	-	-	-	-	-	-
Tanytarsus sp. p epler	-	-	-	-	-	-
Tanytarsus sp. s epler	-	-	-	-	-	-
Tanytarsus sp. t epler	-	-	-	-	-	-
Tanytarsus sp. y epler	-	-	-	-	-	-
Thienemanniella	-	-	-	-	-	-
Thienemanniella lobapodema	-	-	-	-	-	-
Thienemanniella similis	-	-	-	-	-	-
Thienemanniella xena	-	-	-	-	-	-
Thienemannimyia grp.	2	-	1	6	-	-
Tipula	-	-	-	-	-	-
Tipula caloptera	-	-	-	-	-	-
Tipulidae	1	-	2	-	-	-
Torrenticola	-	-	-	-	-	-
Triaenodes	3	3	4	4	-	-
Triaenodes ignitus	-	-	-	-	-	-
Triaenodes perna/helo	-	-	-	-	-	-
Tribelos	-	-	-	-	-	-
Tribelos fuscicornis	-	-	-	-	-	-
Tribelos jucundum	-	-	-	1	-	-
Tricorythodes albilineatus	-	-	-	-	-	-
Tubificidae	-	-	-	-	-	-
Tvetenia	-	-	-	-	-	-
Tvetenia vitracies	-	2	-	-	-	-
Vertigo	-	-	-	-	-	-
Viviparus georgianus	-	-	-	-	-	-
Xenochironomus xenolabis	-	-	-	-	-	-
Xestochironomus	-	-	-	-	-	-
Xylotopus par	-	-	-	-	-	-
Zavreliella marmorata	-	-	-	-	-	-
Zavrelimyia sp. a epler	-	-	-	-	-	-

As Calculated / STORET station ->	24010002	24010002	273116508208 152	273116508208 152	22050040	22050040
Sample date ->	12/17/2008	12/17/2008	12/17/2008	12/17/2008	1/14/2009	1/14/2009
Taxon Name / SampleID/BenthID ->	65900/40550/ Rep 1	65900/40550/ Rep 2	65907/40552/ Rep 1	65907/40552/ Rep 2	65932/40564/ Rep 1	65932/40564/ Rep 2
Ablabesmyia mallochi	1	1	2	-	1	3
Ablabesmyia rhamphe grp.	-	-	-	-	1	4
Acentrella	-	-	-	-	-	-
Acentrella parvula	-	-	-	-	-	-
Acerpenna pygmaea	3	-	3	2	3	8
Acroneuria	-	-	-	-	-	-
Acroneuria abnormis	-	-	-	-	-	-
Acroneuria lycorias	-	-	-	-	-	-
Agnetina annulipes	-	-	-	-	-	-
Allonais inaequalis	-	-	-	-	-	-
Amnicola	-	-	-	-	-	-
Amphipoda	-	-	-	-	-	-
Ancylidae	2	3	3	4	1	1
Ancyronyx variegatus	-	-	-	-	-	-
Anisocentropus pyraloides	-	-	-	-	-	-
Apedilum	-	-	-	-	-	-
Argia	-	-	-	-	-	-
Argia fumipennis	-	-	-	-	-	-
Argia tibialis	-	-	-	-	-	-
Arrenurus	-	-	-	1	-	-
Asioplax	-	-	-	-	-	-
Atherix	-	-	-	-	-	-
Atractides	1	-	-	-	-	-
Atrichopogon	-	-	1	-	-	-
Aulodrilus pigueti	-	-	-	-	-	-
Baetidae	-	-	-	-	-	-
Baetis intercalaris	1	-	-	-	-	-
Baetisca becki	-	-	-	-	-	-
Baetisca rogersi	-	-	-	-	-	-
Beardius	-	-	-	-	-	-
Berosus	-	-	-	-	-	-
Bivalvia	-	-	-	-	-	-
Boyeria vinosa	-	-	-	-	-	-
Brachycentrus chelatus	-	-	-	-	-	-
Brachycentrus numerosus	-	-	-	-	-	-
Branchiobdellidae	-	-	-	-	-	-
Bratislavia unidentata	-	-	-	-	-	-
Brillia	-	-	-	-	-	-
Caecidotea	-	1	1	-	1	-
Caenis	-	-	-	-	27	41
Caenis diminuta	-	-	-	-	-	-
Caenis eglinensis	-	-	-	-	-	-
Caenis hilaris	-	-	-	-	-	-
Callibaetis	-	-	-	-	-	-
Callibaetis floridanus	-	-	-	-	-	-
Calopterygidae	-	-	-	-	-	-
Calopteryx	-	-	-	-	-	-
Cambaridae	-	-	1	2	-	-
Campeloma	-	-	-	-	-	-
Cecidomyiidae	-	-	-	-	1	1

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Celina	-	-	-	-	-	-
Centroptilum triangulifer	-	-	-	-	-	-
Ceraclea	-	-	-	-	-	-
Ceratopogonidae	-	-	-	-	2	3
Cernotina	-	-	-	-	-	-
Chauliodes	-	-	-	-	-	-
Cheumatopsyche	6	8	5	5	-	1
Chimarra	-	-	-	-	-	-
Chironomus	-	-	-	-	-	-
Choroterpes basalis	-	-	-	-	-	-
Chrysomelidae	-	-	-	-	-	-
Cladotanytarsus	-	-	-	-	-	-
Cladotanytarsus cf. daviesi	-	-	-	-	-	-
Cladotanytarsus sp. d epler	-	-	-	-	-	-
Cladotanytarsus sp. f epler	-	-	-	-	-	-
Cladotanytarsus viridiventris	-	-	-	-	-	-
Clathrosperchon	-	-	-	-	-	-
Climacia areolaris	-	-	-	-	-	-
Clinotanypus	-	-	-	-	-	-
Coenagrionidae	-	-	1	1	1	-
Corbicula fluminea	4	-	4	1	-	-
Corydalidae	-	-	-	-	-	-
Corydalus cornutus	-	-	-	-	-	-
Corynoneura	-	-	-	1	1	-
Crangonyx	-	-	-	-	-	-
Cricotopus	-	-	-	-	-	-
Cricotopus bicinctus	-	-	-	-	-	-
Cricotopus or orthocladius	-	-	-	-	-	-
Cryptochironomus	-	-	-	-	-	1
Cryptotendipes	-	-	-	-	-	-
Curculionidae	-	-	-	-	-	-
Cyrnellus fraternus	-	-	-	-	-	-
Dasyhelea	-	-	-	-	-	-
Dero	-	-	-	-	-	-
Dero digitata complex	-	-	-	-	-	-
Dero flabelliger	-	-	-	-	-	-
Dero furcata	-	-	-	-	-	-
Dero pectinata	-	-	-	-	-	-
Desmopachria	-	-	-	-	-	-
Desserobdella phalera	-	-	-	-	-	-
Dicrotendipes	-	-	-	-	-	-
Dicrotendipes modestus	-	-	-	-	-	-
Dicrotendipes neomodestus	-	-	-	-	-	-
Dicrotendipes simpsoni	-	-	-	-	-	-
Dicrotendipes sp. a epler	-	-	-	-	-	-
Dineutus	-	-	-	-	-	-
Diplectrona	-	-	-	-	-	-
Djalmabatista pulcher	-	-	-	-	1	-
Dryopidae	-	-	1	1	-	-
Dubiraphia vittata	-	1	13	15	7	14

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Dytiscidae	-	-	-	-	-	-
Eclipidrilus	-	-	-	-	-	-
Eclipidrilus palustris	-	-	-	1	-	-
Ectopria	-	-	-	-	-	-
Ectopria thoracica	-	-	-	-	-	-
Einfeldia sp. a epler	-	-	-	-	-	-
Elimia	-	-	-	-	-	-
Elmidae	-	-	-	-	-	-
Enallagma	-	-	-	-	-	-
Enallagma coecum	-	-	-	-	-	-
Enchytraeidae	-	-	-	-	-	-
Endotribelos hesperium	-	-	-	-	-	-
Enochrus	-	-	-	-	-	-
Epicordulia princeps regina	-	-	-	-	-	-
Eurylophella doris	-	-	2	-	2	5
Ferrissia	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-
Geayia	-	-	-	-	-	-
Gerridae	-	-	-	-	-	-
Glossiphoniidae	-	-	-	-	-	-
Goeldichironomus	-	-	-	-	-	-
Goeldichironomus cf. natans	-	-	-	-	-	-
Goeldichironomus holoprasinus	-	-	-	-	-	-
Gomphidae	-	-	1	-	-	-
Gomphus	-	-	-	-	-	-
Gonielmis dietrichi	-	-	-	-	-	-
Gyrinidae	-	-	-	-	1	-
Gyrinus	-	-	-	-	-	-
Haemonais waldvogeli	-	-	-	-	-	-
Hagenius brevistylus	-	-	-	-	-	-
Haitia	-	-	-	-	-	-
Hayesomyia senata	-	-	-	-	-	-
Helichus	-	-	-	-	-	-
Helichus lithophilus	-	-	-	-	-	-
Helobdella stagnalis	-	-	-	-	-	-
Helobdella triserialis	-	-	-	-	-	-
Hemerodromia	-	-	-	-	-	-
Heptageniidae	-	-	-	-	5	6
Hetaerina	-	-	-	-	-	-
Hetaerina titia	-	-	-	-	-	-
Hexagenia	-	-	-	-	-	-
Hexatoma	-	-	-	-	-	-
Hirudinea	-	-	-	-	-	-
Hyalella azteca	-	-	1	1	-	-
Hydraena	-	-	-	-	-	-
Hydrobiidae	-	-	-	-	-	1
Hydrodroma	-	-	-	-	-	-
Hydrometra	-	-	-	-	-	-
Hydrophilidae	-	-	-	-	-	-
Hydropsyche	8	13	-	-	-	-

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Hydropsyche incommoda	-	-	-	-	-	-
Hydropsyche mississippiensis	-	-	-	-	-	-
Hydroptila	-	-	-	-	-	-
Hydrovatus	-	-	-	-	-	-
Hygrobates	-	-	-	-	1	-
Ischnura	-	-	-	-	-	-
Isonychia	-	-	-	-	-	-
Kiefferulus	-	-	-	-	-	-
Koenikea	-	-	-	-	-	-
Krendowskia	-	-	-	-	-	-
Labrundinia	-	-	-	-	-	-
Labrundinia becki	-	-	-	-	-	-
Labrundinia johannseni	-	-	-	-	-	-
Labrundinia pilosella	-	-	-	-	-	-
Labrundinia sp. 3 nr. virescens	-	-	-	-	-	-
Laccophilus	-	-	-	-	-	-
Laevapex	-	-	-	-	-	-
Larsia	-	-	-	-	-	-
Larsia decolorata	-	-	-	-	-	-
Lauterborniella agrayloides	-	-	-	-	-	-
Lebertia	-	-	-	1	-	-
Lepidoptera	-	-	-	-	-	-
Lepidostoma	-	-	-	-	-	-
Leptophlebiidae	-	-	-	-	2	-
Leuctra	-	-	-	-	-	-
Libellulidae	-	-	-	-	-	-
Limnesia	-	-	-	-	-	-
Limnodrilus hoffmeisteri	-	-	2	2	-	-
Lioporeus	-	-	-	-	-	-
Lirceus	-	-	-	-	-	-
Lopescladius	-	-	-	-	-	-
Lumbriculus variegatus	-	-	-	-	2	3
Lymnaeidae	-	-	-	-	-	-
Lype diversa	-	-	-	-	-	-
Maccaffertium	-	-	-	-	-	-
Maccaffertium exiguum	29	31	-	-	-	-
Maccaffertium smithae	-	-	-	-	-	-
Macromia	-	-	-	-	-	-
Macromia illinoiensis georgina	-	-	-	-	-	-
Macronychus glabratus	-	-	-	-	-	-
Macrostemum carolina	-	-	-	-	-	-
Mayatrichia ayama	-	-	-	-	-	-
Megistocera	-	-	-	-	-	-
Mesonoterus	-	-	-	-	-	-
Mesovelia	-	-	-	-	-	-
Micrasema	-	-	-	-	-	-
Microcylloepus pusillus	7	3	26	23	2	3
Micromenetus	1	-	1	-	-	3
Micromenetus dilatatus avus	-	-	-	-	-	-
Micropsectra	-	-	-	-	-	-

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Microtendipes	-	-	-	-	-	-
Microtendipes pedellus grp.	-	-	-	-	-	-
Microtendipes rydalensis grp.	-	-	-	-	-	2
Microvelia	-	-	-	-	-	-
Mideopsis	-	-	-	-	-	1
Momonia	-	-	-	-	-	-
Monopelopia	-	-	-	-	-	-
Mooreobdella	-	-	-	-	-	-
Naididae	-	-	-	-	-	-
Nais communis complex	-	-	-	-	-	-
Nais(animal)	-	-	-	-	-	-
Nanocladius	-	-	-	-	-	-
Nectopsyche	-	-	-	-	-	-
Nectopsyche exquisita	1	3	-	-	-	-
Nectopsyche pavida	-	-	1	-	-	-
Neoephemera	-	-	-	-	-	-
Neoperla	-	-	-	-	-	-
Neoplasta	-	-	-	-	-	-
Neoplea	-	-	-	-	-	-
Neoporus	-	-	-	-	1	1
Neotrichia	1	2	-	1	-	-
Neureclipsis	-	-	-	-	-	-
Neureclipsis crepuscularis	-	-	-	-	-	-
Neurocordulia	-	-	-	-	-	-
Neurocordulia alabamensis	-	-	-	-	-	-
Nigronia	-	-	-	-	-	-
Nigronia serricornis	-	-	-	-	-	-
Nilotanypus americanus	-	-	-	-	-	-
Nilotanypus fimbriatus	-	-	1	-	-	-
Nilothauma	-	-	-	-	-	-
Notomicrus nanulus	-	-	-	-	-	-
Nyctiophylax	-	-	-	-	1	-
Oecetis	-	2	-	-	-	-
Oecetis avara	-	-	-	-	-	-
Oecetis cinerascens	-	-	-	-	-	-
Oecetis georgia	-	-	-	-	-	-
Oecetis sphyra/morsei	-	-	-	-	-	-
Ora/scirtes	1	-	-	5	1	-
Oribatida	-	-	-	-	-	-
Ormosia	-	-	-	-	-	-
Orthocladius annectens	-	-	-	-	-	-
Orthotrichia	-	-	-	-	-	-
Oxus	-	-	-	-	-	-
Oxyethira	-	-	-	-	-	-
Pachydiplax longipennis	-	-	-	-	-	-
Palaemonetes	-	-	1	-	-	-
Palpomyia/bezzia grp.	-	-	-	-	-	-
Parachaetocladius abnobaeus	-	-	-	-	-	-
Parachironomus	-	-	-	-	-	-
Parachironomus chaetoalus complex	-	-	-	-	-	-

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Parachironomus supparilis	-	-	-	-	-	-
Paracladopelma	-	-	-	-	-	-
Paracymus	-	-	-	-	-	-
Parakiefferiella sp. b epler	-	-	-	-	-	-
Parakiefferiella sp. f epler	-	-	-	-	-	-
Paralauterborniella nigrohalterale	-	-	-	-	-	-
Paraleptophlebia volitans	-	-	-	-	-	-
Paramerina	-	-	-	-	-	-
Parametriocnemus	-	-	-	-	-	-
Paratanytarsus	-	-	-	-	41	16
Paratanytarsus dissimilis	-	-	-	-	-	-
Paratanytarsus quadratus	-	-	-	-	-	-
Paratendipes subaequalis	-	-	-	-	-	-
Pelonomus obscurus	-	-	-	-	-	-
Peltodytes	-	-	-	-	-	-
Peltodytes dietrichi	-	-	-	-	-	-
Pentaneura inconspicua	-	2	1	1	-	1
Perlesta placida complex	-	-	-	-	-	-
Perlinella drymo	-	-	-	-	-	-
Phaenopsectra flavipes	-	-	-	-	-	-
Phylocentropus	-	-	-	-	-	-
Physa	-	-	-	-	-	-
Physidae	-	-	-	-	-	-
Pilaria	-	-	-	-	-	-
Placobdella	-	-	-	-	-	-
Planorbella	-	-	-	-	-	-
Planorbidae	-	-	-	-	-	-
Platyhelminthes	-	-	1	-	1	1
Plauditus	-	-	-	-	-	-
Plauditus bimaculatus	-	-	-	-	-	-
Plecoptera	-	-	-	-	-	-
Polycentropodidae	-	-	-	-	-	-
Polycentropus	-	-	-	-	-	-
Polypedilum aviceps	-	-	-	-	-	-
Polypedilum fallax	-	-	-	2	-	-
Polypedilum flavum	50	56	45	39	-	2
Polypedilum halterale grp.	-	-	1	-	-	-
Polypedilum illinoense grp.	1	-	1	1	-	-
Polypedilum scalaenum grp.	1	-	2	4	12	1
Polypedilum sp. a epler	-	-	-	-	-	-
Polypedilum trigonus	-	-	-	-	-	-
Polypedilum tritum	-	-	-	-	-	-
Potthastia	-	-	-	-	-	-
Potthastia longimana	-	-	-	-	-	-
Pristina	-	-	-	-	-	-
Procambarus	-	-	-	-	-	-
Procladius	-	-	-	-	-	-
Procloeon	-	-	-	-	-	-
Progomphus	-	-	-	-	-	-
Progomphus obscurus	-	-	-	-	-	-

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Promoresia tardella	-	-	-	-	-	-
Prostoma	-	-	-	-	-	-
Psectrocladius	-	-	-	-	-	-
Pseudochironomus	-	-	-	-	-	-
Pseudocloeon	-	-	-	-	6	4
Pseudocloeon ephippiatum	6	1	1	3	-	-
Pseudocloeon frondale	-	-	-	-	-	-
Pseudocloeon propinquum	-	-	-	-	-	-
Pseudolimnophila	-	-	-	-	-	-
Psychodidae	-	-	-	-	-	-
Pteronarcys dorsata	-	-	-	-	-	-
Pyralidae	-	-	-	-	-	-
Rheocricotopus robacki	2	1	-	-	-	-
Rheotanytarsus	-	-	-	-	-	-
Rheotanytarsus exiguus grp.	18	17	14	13	18	17
Rheotanytarsus pellucidus	-	-	1	-	-	-
Rhyncholimnochares	-	-	-	-	-	-
Robackia claviger	-	-	-	-	-	-
Serratella deficiens	-	-	-	-	-	-
Sialis	-	-	-	-	-	-
Simulium	2	3	-	1	1	-
Simulium jonesi	-	-	-	-	-	-
Sisyra	-	-	-	-	1	-
Slavina appendiculata	-	-	-	-	-	-
Sperchon	-	-	-	-	-	-
Sperchonopsis	-	-	-	-	-	-
Sperchopsis	-	-	-	-	-	-
Sperchopsis tessellatus	-	-	-	-	-	-
Sphaeriidae(mollusca)	-	-	-	3	-	1
Spirosperma	-	-	-	-	-	-
Staphylinidae	-	-	-	-	-	-
Stelechomyia perpulchra	-	-	-	1	-	-
Stempellina	-	-	-	-	-	-
Stempellinella	-	-	-	-	-	-
Stempellinella fimbriata	-	-	-	-	-	-
Stempellinella leptocelloides	-	-	-	-	-	-
Stenacron	-	-	3	-	-	-
Stenacron interpunctatum	-	-	-	2	-	-
Stenelmis	2	6	8	5	2	-
Stenochironomus	1	-	-	2	1	1
Stenus	-	-	-	-	-	-
Stephensoniana trivandrana	-	-	-	-	-	-
Stratiomyidae	-	-	-	-	-	-
Sympetrum	-	-	-	-	-	-
Tabanidae	-	-	-	-	-	-
Taeniopteryx	-	-	-	-	-	-
Tanytarsus	-	-	-	-	-	-
Tanytarsus sp. a epler	-	-	-	-	-	-
Tanytarsus sp. c epler	-	1	-	-	1	1
Tanytarsus sp. d epler	-	-	-	-	-	-

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Tanytarsus sp. e epler	-	-	-	-	-	-
Tanytarsus sp. f epler	-	-	-	-	-	-
Tanytarsus sp. l epler	-	-	-	-	-	-
Tanytarsus sp. m epler	-	-	-	1	2	-
Tanytarsus sp. n epler	-	-	-	-	-	-
Tanytarsus sp. o epler	-	-	-	-	-	-
Tanytarsus sp. p epler	-	-	-	-	-	-
Tanytarsus sp. s epler	-	1	-	-	-	-
Tanytarsus sp. t epler	-	-	-	1	1	-
Tanytarsus sp. y epler	-	-	-	-	-	-
Thienemanniella	-	-	-	-	-	-
Thienemanniella lobapodema	-	-	-	-	1	-
Thienemanniella similis	-	-	-	-	-	-
Thienemanniella xena	-	-	-	-	-	-
Thienemannimyia grp.	-	-	-	-	-	-
Tipula	-	-	-	-	-	-
Tipula caloptera	-	-	-	-	-	-
Tipulidae	-	-	-	-	-	-
Torrenticola	-	-	-	-	-	-
Triaenodes	-	-	-	-	-	-
Triaenodes ignitus	-	-	1	1	-	-
Triaenodes perna/helo	-	-	2	3	-	-
Tribelos	-	-	-	-	-	-
Tribelos fuscicornis	-	-	-	1	1	1
Tribelos jucundum	-	-	-	-	1	-
Tricorythodes albilineatus	-	-	-	-	1	-
Tubificidae	-	-	-	-	-	-
Tvetenia	-	-	-	-	-	-
Tvetenia vitracies	-	-	-	-	-	-
Vertigo	-	-	-	-	-	-
Viviparus georgianus	-	-	-	-	-	-
Xenochironomus xenolabis	-	-	-	-	-	-
Xestochironomus	-	-	-	-	-	-
Xylotopus par	-	-	-	-	-	-
Zavreliella marmorata	-	-	-	-	-	-
Zavrelimyia sp. a epler	-	-	-	-	-	-

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Taxon Name / SampleID/BenthID ->	66028/40571/ Rep 1	66028/40571/ Rep 2	65931/40577/ Rep 1	65931/40577/ Rep 2	Phylum	Class
Ablabesmyia mallochi	-	-	2	2	Arthropoda	Insecta
Ablabesmyia rhamphe grp.	1	-	-	-	Arthropoda	Insecta
Acentrella	-	-	1	-	Arthropoda	Insecta
Acentrella parvula	-	-	-	1	Arthropoda	Insecta
Acerpenna pygmaea	-	-	5	2	Arthropoda	Insecta
Acroneuria	-	-	-	-	Arthropoda	Insecta
Acroneuria abnormis	-	-	-	-	Arthropoda	Insecta
Acroneuria lycorias	-	-	-	-	Arthropoda	Insecta
Agnetina annulipes	-	-	-	-	Arthropoda	Insecta
Allonais inaequalis	-	-	-	-	Annelida	Oligochaeta
Amnicola	8	4	-	-	Mollusca	Gastropoda
Amphipoda	-	-	-	-	Arthropoda	Crustacea
Ancylidae	1	4	-	-	Mollusca	Gastropoda
Ancyronyx variegatus	3	2	-	-	Arthropoda	Insecta
Anisocentropus pyraloides	-	-	-	-	Arthropoda	Insecta
Apedilum	-	-	-	-	Arthropoda	Insecta
Argia	2	1	-	-	Arthropoda	Insecta
Argia fumipennis	-	-	-	-	Arthropoda	Insecta
Argia tibialis	-	-	-	-	Arthropoda	Insecta
Arrenurus	-	-	-	-	Arthropoda	Arachnida
Asioplax	-	-	-	-	Arthropoda	Insecta
Atherix	-	-	-	-	Arthropoda	Insecta
Atractides	-	-	-	-	Arthropoda	Arachnida
Atrichopogon	-	-	1	1	Arthropoda	Insecta
Aulodrilus pigueti	-	-	-	-	Annelida	Oligochaeta
Baetidae	2	1	-	-	Arthropoda	Insecta
Baetis intercalaris	-	-	2	2	Arthropoda	Insecta
Baetisca becki	-	-	-	-	Arthropoda	Insecta
Baetisca rogersi	-	-	-	-	Arthropoda	Insecta
Beardius	-	-	-	-	Arthropoda	Insecta
Berosus	1	-	-	-	Arthropoda	Insecta
Bivalvia	-	-	-	-	Mollusca	Bivalvia
Boyeria vinosa	-	1	-	-	Arthropoda	Insecta
Brachycentrus chelatus	-	-	-	-	Arthropoda	Insecta
Brachycentrus numerosus	-	-	-	-	Arthropoda	Insecta
Branchiobdellidae	-	-	-	-	Annelida	Oligochaeta
Bratislavia unidentata	-	-	-	-	Annelida	Oligochaeta
Brillia	-	-	-	-	Arthropoda	Insecta
Caecidotea	-	1	3	-	Arthropoda	Crustacea
Caenis	3	3	3	4	Arthropoda	Insecta
Caenis diminuta	-	-	-	-	Arthropoda	Insecta
Caenis eglinensis	-	-	-	-	Arthropoda	Insecta
Caenis hilaris	-	-	-	-	Arthropoda	Insecta
Callibaetis	-	-	-	-	Arthropoda	Insecta
Callibaetis floridanus	-	-	-	-	Arthropoda	Insecta
Calopterygidae	-	-	-	-	Arthropoda	Insecta
Calopteryx	-	-	-	-	Arthropoda	Insecta
Cambaridae	-	-	-	-	Arthropoda	Crustacea
Campeloma	-	-	-	-	Mollusca	Gastropoda
Cecidomyiidae	-	-	-	-	Arthropoda	Insecta

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Celina	-	-	-	-	Arthropoda	Insecta
Centroptilum triangulifer	-	-	-	-	Arthropoda	Insecta
Ceraclea	-	-	-	-	Arthropoda	Insecta
Ceratopogonidae	-	-	-	-	Arthropoda	Insecta
Cernotina	2	6	-	-	Arthropoda	Insecta
Chauliodes	-	-	-	-	Arthropoda	Insecta
Cheumatopsyche	9	9	6	4	Arthropoda	Insecta
Chimarra	-	-	-	2	Arthropoda	Insecta
Chironomus	-	-	-	-	Arthropoda	Insecta
Choroterpes basalis	-	-	-	-	Arthropoda	Insecta
Chrysomelidae	-	-	-	-	Arthropoda	Insecta
Cladotanytarsus	-	-	-	-	Arthropoda	Insecta
Cladotanytarsus cf. daviesi	-	-	-	-	Arthropoda	Insecta
Cladotanytarsus sp. d epler	-	1	-	-	Arthropoda	Insecta
Cladotanytarsus sp. f epler	-	-	-	-	Arthropoda	Insecta
Cladotanytarsus viridiventris	-	-	-	-	Arthropoda	Insecta
Clathrosperchon	-	-	-	-	Arthropoda	Arachnida
Climacia areolaris	-	-	-	-	Arthropoda	Insecta
Clinotanypus	-	-	-	-	Arthropoda	Insecta
Coenagrionidae	-	-	-	3	Arthropoda	Insecta
Corbicula fluminea	15	8	-	-	Mollusca	Bivalvia
Corydalidae	-	-	-	-	Arthropoda	Insecta
Corydalus cornutus	-	-	1	-	Arthropoda	Insecta
Corynoneura	-	-	-	-	Arthropoda	Insecta
Crangonyx	-	-	-	-	Arthropoda	Crustacea
Cricotopus	-	-	-	-	Arthropoda	Insecta
Cricotopus bicinctus	-	-	2	-	Arthropoda	Insecta
Cricotopus or orthocladius	-	-	-	-	Arthropoda	Insecta
Cryptochironomus	-	-	-	-	Arthropoda	Insecta
Cryptotendipes	-	-	-	-	Arthropoda	Insecta
Curculionidae	1	-	-	-	Arthropoda	Insecta
Cyrnellus fraternus	-	-	-	-	Arthropoda	Insecta
Dasyhelea	-	-	-	-	Arthropoda	Insecta
Dero	-	-	-	-	Annelida	Oligochaeta
Dero digitata complex	-	-	-	-	Annelida	Oligochaeta
Dero flabelliger	-	-	-	-	Annelida	Oligochaeta
Dero furcata	-	-	-	-	Annelida	Oligochaeta
Dero pectinata	-	-	-	-	Annelida	Oligochaeta
Desmopachria	-	-	-	1	Arthropoda	Insecta
Desserobdella phalera	-	-	-	-	Annelida	Hirudinea
Dicrotendipes	-	-	-	-	Arthropoda	Insecta
Dicrotendipes modestus	-	-	-	-	Arthropoda	Insecta
Dicrotendipes neomodestus	-	-	-	-	Arthropoda	Insecta
Dicrotendipes simpsoni	-	-	-	-	Arthropoda	Insecta
Dicrotendipes sp. a epler	-	-	-	-	Arthropoda	Insecta
Dineutus	-	-	-	-	Arthropoda	Insecta
Diplectrona	-	-	-	-	Arthropoda	Insecta
Djalmabatista pulcher	9	4	-	-	Arthropoda	Insecta
Dryopidae	-	-	-	-	Arthropoda	Insecta
Dubiraphia vittata	7	7	1	2	Arthropoda	Insecta

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Dytiscidae	-	-	-	-	Arthropoda	Insecta
Eclipidrilus	-	1	-	-	Annelida	Oligochaeta
Eclipidrilus palustris	-	-	1	-	Annelida	Oligochaeta
Ectopria	-	-	-	-	Arthropoda	Insecta
Ectopria thoracica	-	-	-	-	Arthropoda	Insecta
Einfeldia sp. a epler	-	-	-	-	Arthropoda	Insecta
Elimia	-	-	4	1	Mollusca	Gastropoda
Elmidae	-	-	-	-	Arthropoda	Insecta
Enallagma	1	2	-	-	Arthropoda	Insecta
Enallagma coecum	-	-	-	-	Arthropoda	Insecta
Enchytraeidae	-	-	-	-	Annelida	Oligochaeta
Endotribelos hesperium	-	-	-	-	Arthropoda	Insecta
Enochrus	-	-	-	-	Arthropoda	Insecta
Epicordulia princeps regina	-	2	-	-	Arthropoda	Insecta
Eurylophella doris	-	1	-	-	Arthropoda	Insecta
Ferrissia	-	-	-	-	Mollusca	Gastropoda
Gastropoda	-	-	-	-	Mollusca	Gastropoda
Geayia	-	-	-	-	Arthropoda	Arachnida
Gerridae	-	-	-	-	Arthropoda	Insecta
Glossiphoniidae	-	-	-	-	Annelida	Hirudinea
Goeldichironomus	-	-	-	-	Arthropoda	Insecta
Goeldichironomus cf. natans	-	-	-	-	Arthropoda	Insecta
Goeldichironomus holoprasinus	-	-	-	-	Arthropoda	Insecta
Gomphidae	-	-	-	-	Arthropoda	Insecta
Gomphus	-	2	-	-	Arthropoda	Insecta
Gonielmis dietrichi	-	-	-	-	Arthropoda	Insecta
Gyrinidae	-	-	-	-	Arthropoda	Insecta
Gyrinus	-	-	2	2	Arthropoda	Insecta
Haemonais waldvogeli	-	-	-	-	Annelida	Oligochaeta
Hagenius brevistylus	1	-	-	-	Arthropoda	Insecta
Haitia	-	-	-	-	Mollusca	Gastropoda
Hayesomyia senata	-	-	-	-	Arthropoda	Insecta
Helichus	-	-	-	1	Arthropoda	Insecta
Helichus lithophilus	2	-	-	-	Arthropoda	Insecta
Helobdella stagnalis	-	-	-	-	Annelida	Hirudinea
Helobdella triserialis	1	-	-	-	Annelida	Hirudinea
Hemerodromia	1	2	-	-	Arthropoda	Insecta
Heptageniidae	1	1	-	-	Arthropoda	Insecta
Hetaerina	-	-	-	-	Arthropoda	Insecta
Hetaerina titia	-	-	-	-	Arthropoda	Insecta
Hexagenia	-	-	-	-	Arthropoda	Insecta
Hexatoma	-	-	-	-	Arthropoda	Insecta
Hirudinea	-	-	-	-	Annelida	Hirudinea
Hyalella azteca	-	-	10	14	Arthropoda	Crustacea
Hydraena	-	-	-	-	Arthropoda	Insecta
Hydrobiidae	-	-	2	2	Mollusca	Gastropoda
Hydrodroma	-	-	-	-	Arthropoda	Arachnida
Hydrometra	-	-	-	-	Arthropoda	Insecta
Hydrophilidae	-	-	-	-	Arthropoda	Insecta
Hydropsyche	-	-	10	11	Arthropoda	Insecta

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Hydropsyche incommoda	-	-	-	-	Arthropoda	Insecta
Hydropsyche mississippiensis	-	-	-	-	Arthropoda	Insecta
Hydroptila	-	1	-	1	Arthropoda	Insecta
Hydrovatus	-	-	-	-	Arthropoda	Insecta
Hygrobates	-	-	-	-	Arthropoda	Arachnida
Ischnura	-	-	-	-	Arthropoda	Insecta
Isonychia	-	-	-	-	Arthropoda	Insecta
Kiefferulus	-	-	-	-	Arthropoda	Insecta
Koenikea	-	-	-	-	Arthropoda	Arachnida
Krendowskia	-	-	-	-	Arthropoda	Arachnida
Labrundinia	-	-	-	-	Arthropoda	Insecta
Labrundinia becki	-	-	-	-	Arthropoda	Insecta
Labrundinia johannseni	-	-	-	-	Arthropoda	Insecta
Labrundinia pilosella	-	-	1	-	Arthropoda	Insecta
Labrundinia sp. 3 nr. virescens	-	-	-	-	Arthropoda	Insecta
Laccophilus	-	-	-	-	Arthropoda	Insecta
Laevapex	-	-	-	-	Mollusca	Gastropoda
Larsia	-	-	-	-	Arthropoda	Insecta
Larsia decolorata	-	-	-	-	Arthropoda	Insecta
Lauterborniella agrayloides	-	-	-	-	Arthropoda	Insecta
Lebertia	-	1	-	-	Arthropoda	Arachnida
Lepidoptera	-	-	-	-	Arthropoda	Insecta
Lepidostoma	-	-	-	-	Arthropoda	Insecta
Leptophlebiidae	3	3	5	7	Arthropoda	Insecta
Leuctra	-	-	-	-	Arthropoda	Insecta
Libellulidae	-	-	-	-	Arthropoda	Insecta
Limnesia	-	-	-	-	Arthropoda	Arachnida
Limnodrilus hoffmeisteri	-	-	-	-	Annelida	Oligochaeta
Lioporeus	-	-	-	-	Arthropoda	Insecta
Lirceus	-	-	-	-	Arthropoda	Crustacea
Lopescladius	1	-	-	-	Arthropoda	Insecta
Lumbriculus variegatus	-	-	-	-	Annelida	Oligochaeta
Lymnaeidae	-	-	-	-	Mollusca	Gastropoda
Lype diversa	-	-	-	-	Arthropoda	Insecta
Maccaffertium	-	-	1	-	Arthropoda	Insecta
Maccaffertium exiguum	-	-	-	-	Arthropoda	Insecta
Maccaffertium smithae	-	-	-	-	Arthropoda	Insecta
Macromia	1	-	-	-	Arthropoda	Insecta
Macromia illinoiensis georgina	-	-	-	-	Arthropoda	Insecta
Macronychus glabratus	-	-	-	-	Arthropoda	Insecta
Macrostemum carolina	-	-	-	-	Arthropoda	Insecta
Mayatrichia ayama	-	-	-	-	Arthropoda	Insecta
Megistocera	-	-	1	-	Arthropoda	Insecta
Mesonoterus	-	-	-	-	Arthropoda	Insecta
Mesovelia	-	-	-	-	Arthropoda	Insecta
Micrasema	-	-	-	-	Arthropoda	Insecta
Microcylloepus pusillus	24	28	12	6	Arthropoda	Insecta
Micromenetus	8	3	-	-	Mollusca	Gastropoda
Micromenetus dilatatus avus	-	-	-	-	Mollusca	Gastropoda
Micropsectra	-	-	-	-	Arthropoda	Insecta

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Microtendipes	-	-	-	-	Arthropoda	Insecta
Microtendipes pedellus grp.	-	-	-	-	Arthropoda	Insecta
Microtendipes rydalensis grp.	-	-	-	-	Arthropoda	Insecta
Microvelia	-	-	-	-	Arthropoda	Insecta
Mideopsis	-	-	-	-	Arthropoda	Arachnida
Momonia	-	-	-	-	Arthropoda	Arachnida
Monopelopia	-	-	-	-	Arthropoda	Insecta
Mooreobdella	-	-	-	1	Annelida	Hirudinea
Naididae	-	-	-	-	Annelida	Oligochaeta
Nais communis complex	-	-	-	-	Annelida	Oligochaeta
Nais(animal)	-	-	-	-	Annelida	Oligochaeta
Nanocladius	-	-	-	-	Arthropoda	Insecta
Nectopsyche	-	-	-	-	Arthropoda	Insecta
Nectopsyche exquisita	1	1	-	-	Arthropoda	Insecta
Nectopsyche pavida	2	-	-	-	Arthropoda	Insecta
Neoephemera	-	-	-	-	Arthropoda	Insecta
Neoperla	-	-	-	-	Arthropoda	Insecta
Neoplasta	-	-	-	-	Arthropoda	Insecta
Neoplea	-	1	-	-	Arthropoda	Insecta
Neoporus	-	-	-	-	Arthropoda	Insecta
Neotrichia	-	-	-	-	Arthropoda	Insecta
Neureclipsis	-	-	-	-	Arthropoda	Insecta
Neureclipsis crepuscularis	-	-	-	-	Arthropoda	Insecta
Neurocordulia	-	-	-	-	Arthropoda	Insecta
Neurocordulia alabamensis	-	-	-	-	Arthropoda	Insecta
Nigronia	-	-	-	-	Arthropoda	Insecta
Nigronia serricornis	-	-	-	-	Arthropoda	Insecta
Nilotanypus americanus	-	-	-	-	Arthropoda	Insecta
Nilotanypus fimbriatus	-	-	-	-	Arthropoda	Insecta
Nilothauma	-	-	-	-	Arthropoda	Insecta
Notomicrus nanulus	-	-	-	-	Arthropoda	Insecta
Nyctiophylax	-	-	-	-	Arthropoda	Insecta
Oecetis	-	-	-	1	Arthropoda	Insecta
Oecetis avara	-	-	-	-	Arthropoda	Insecta
Oecetis cinerascens	-	-	-	-	Arthropoda	Insecta
Oecetis georgia	-	-	-	-	Arthropoda	Insecta
Oecetis sphyra/morsei	-	-	-	-	Arthropoda	Insecta
Ora/scirtes	-	-	-	1	Arthropoda	Insecta
Oribatida	-	-	-	-	Arthropoda	Arachnida
Ormosia	-	-	-	-	Arthropoda	Insecta
Orthocladius annectens	-	-	-	-	Arthropoda	Insecta
Orthotrichia	-	-	-	-	Arthropoda	Insecta
Oxus	-	-	-	-	Arthropoda	Arachnida
Oxyethira	-	-	-	1	Arthropoda	Insecta
Pachydiplax longipennis	-	-	-	-	Arthropoda	Insecta
Palaemonetes	2	2	-	-	Arthropoda	Crustacea
Palpomyia/bezzia grp.	1	4	-	-	Arthropoda	Insecta
Parachaetocladius abnobaeus	-	-	-	-	Arthropoda	Insecta
Parachironomus	-	-	-	-	Arthropoda	Insecta
Parachironomus chaetoalus complex	-	-	-	-	Arthropoda	Insecta

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Parachironomus supparilis	-	-	-	-	Arthropoda	Insecta
Paracladopelma	-	-	-	-	Arthropoda	Insecta
Paracymus	-	-	-	-	Arthropoda	Insecta
Parakiefferiella sp. b epler	-	-	-	-	Arthropoda	Insecta
Parakiefferiella sp. f epler	-	-	-	-	Arthropoda	Insecta
Paralauterborniella nigrohalterale	-	-	-	-	Arthropoda	Insecta
Paraleptophlebia volitans	-	-	-	-	Arthropoda	Insecta
Paramerina	-	-	-	-	Arthropoda	Insecta
Parametriocnemus	-	-	-	-	Arthropoda	Insecta
Paratanytarsus	-	-	1	-	Arthropoda	Insecta
Paratanytarsus dissimilis	-	-	-	-	Arthropoda	Insecta
Paratanytarsus quadratus	-	-	-	-	Arthropoda	Insecta
Paratendipes subaequalis	-	-	-	-	Arthropoda	Insecta
Pelonomus obscurus	-	-	-	-	Arthropoda	Insecta
Peltodytes	-	-	-	-	Arthropoda	Insecta
Peltodytes dietrichi	-	-	-	-	Arthropoda	Insecta
Pentaneura inconspicua	2	-	8	5	Arthropoda	Insecta
Perlesta placida complex	-	-	-	-	Arthropoda	Insecta
Perlinella drymo	-	-	-	-	Arthropoda	Insecta
Phaenopsectra flavipes	-	-	-	-	Arthropoda	Insecta
Phylocentropus	-	-	-	-	Arthropoda	Insecta
Physa	-	-	-	-	Mollusca	Gastropoda
Physidae	-	-	-	-	Mollusca	Gastropoda
Pilaria	-	-	-	-	Arthropoda	Insecta
Placobdella	-	-	-	-	Annelida	Hirudinea
Planorbella	-	-	-	-	Mollusca	Gastropoda
Planorbidae	-	-	-	-	Mollusca	Gastropoda
Platyhelminthes	-	-	-	2	Platyhelminthes	
Plauditus	-	-	-	-	Arthropoda	Insecta
Plauditus bimaculatus	-	-	-	-	Arthropoda	Insecta
Plecoptera	-	-	-	-	Arthropoda	Insecta
Polycentropodidae	-	-	-	-	Arthropoda	Insecta
Polycentropus	-	-	-	-	Arthropoda	Insecta
Polypedilum aviceps	-	-	-	-	Arthropoda	Insecta
Polypedilum fallax	-	3	-	-	Arthropoda	Insecta
Polypedilum flavum	3	1	36	38	Arthropoda	Insecta
Polypedilum halterale grp.	1	-	-	-	Arthropoda	Insecta
Polypedilum illinoense grp.	-	-	4	2	Arthropoda	Insecta
Polypedilum scalaenum grp.	-	-	1	3	Arthropoda	Insecta
Polypedilum sp. a epler	-	-	-	-	Arthropoda	Insecta
Polypedilum trigonus	-	-	-	-	Arthropoda	Insecta
Polypedilum tritum	-	-	-	-	Arthropoda	Insecta
Potthastia	-	-	-	-	Arthropoda	Insecta
Potthastia longimana	-	-	-	-	Arthropoda	Insecta
Pristina	-	-	-	-	Annelida	Oligochaeta
Procambarus	-	-	-	-	Arthropoda	Crustacea
Procladius	1	3	-	-	Arthropoda	Insecta
Procloeon	-	-	-	-	Arthropoda	Insecta
Progomphus	-	1	-	-	Arthropoda	Insecta
Progomphus obscurus	-	-	-	-	Arthropoda	Insecta

As Calculated / STORET station ->	21202	21202	22050083	22050083		
Sample date ->	5/1/2008	5/1/2008	1/14/2009	1/14/2009		
Taxon Name / SampleID/BenthID ->	66028/40571/ Rep 1	66028/40571/ Rep 2	65931/40577/ Rep 1	65931/40577/ Rep 2	Phylum	Class
Promoresia tardella	-	-	-	-	Arthropoda	Insecta
Prostoma	-	1	-	-	Nemertea	Enopla
Psectrocladius	-	-	-	-	Arthropoda	Insecta
Pseudochironomus	-	-	-	-	Arthropoda	Insecta
Pseudocloeon	-	-	-	-	Arthropoda	Insecta
Pseudocloeon ephippiatum	-	-	-	1	Arthropoda	Insecta
Pseudocloeon frondale	-	-	5	5	Arthropoda	Insecta
Pseudocloeon propinquum	-	-	-	-	Arthropoda	Insecta
Pseudolimnophila	-	-	-	-	Arthropoda	Insecta
Psychodidae	-	-	-	-	Arthropoda	Insecta
Pteronarcys dorsata	-	-	-	-	Arthropoda	Insecta
Pyralidae	-	-	-	-	Arthropoda	Insecta
Rheocricotopus robacki	-	-	-	-	Arthropoda	Insecta
Rheotanytarsus	-	-	-	-	Arthropoda	Insecta
Rheotanytarsus exiguus grp.	1	5	5	3	Arthropoda	Insecta
Rheotanytarsus pellucidus	-	-	3	4	Arthropoda	Insecta
Rhyncholimnochares	-	-	-	-	Arthropoda	Arachnida
Robackia claviger	-	-	-	-	Arthropoda	Insecta
Serratella deficiens	-	-	-	-	Arthropoda	Insecta
Sialis	-	-	-	-	Arthropoda	Insecta
Simulium	-	-	6	6	Arthropoda	Insecta
Simulium jonesi	-	-	-	-	Arthropoda	Insecta
Sisyra	-	-	-	-	Arthropoda	Insecta
Slavina appendiculata	-	-	-	-	Annelida	Oligochaeta
Sperchon	-	-	-	-	Arthropoda	Arachnida
Sperchonopsis	-	-	-	-	Arthropoda	Arachnida
Sperchopsis	-	-	-	-	Arthropoda	Insecta
Sperchopsis tessellatus	-	-	-	-	Arthropoda	Insecta
Sphaeriidae(mollusca)	7	8	-	-	Mollusca	Bivalvia
Spirosperma	-	-	-	-	Annelida	Oligochaeta
Staphylinidae	-	-	-	-	Arthropoda	Insecta
Stelechomyia perpulchra	-	-	-	-	Arthropoda	Insecta
Stempellina	-	-	-	-	Arthropoda	Insecta
Stempellinella	-	-	-	-	Arthropoda	Insecta
Stempellinella fimbriata	-	-	1	-	Arthropoda	Insecta
Stempellinella leptocelloides	-	-	-	-	Arthropoda	Insecta
Stenacron	-	-	2	-	Arthropoda	Insecta
Stenacron interpunctatum	-	-	-	-	Arthropoda	Insecta
Stenelmis	7	11	-	2	Arthropoda	Insecta
Stenochironomus	-	-	4	1	Arthropoda	Insecta
Stenus	-	-	-	-	Arthropoda	Insecta
Stephensoniana trivandrana	-	-	-	-	Annelida	Oligochaeta
Stratiomyidae	-	-	-	-	Arthropoda	Insecta
Sympetrum	-	-	-	-	Arthropoda	Insecta
Tabanidae	-	-	-	-	Arthropoda	Insecta
Taeniopteryx	-	-	-	-	Arthropoda	Insecta
Tanytarsus	2	-	-	-	Arthropoda	Insecta
Tanytarsus sp. a epler	-	-	-	-	Arthropoda	Insecta
Tanytarsus sp. c epler	-	-	1	4	Arthropoda	Insecta
Tanytarsus sp. d epler	-	-	-	-	Arthropoda	Insecta

As Calculated / STORET station ->	21202	21202	22050083	22050083		
Sample date ->	5/1/2008	5/1/2008	1/14/2009	1/14/2009		
Taxon Name / SampleID/BenthID ->	66028/40571/ Rep 1	66028/40571/ Rep 2	65931/40577/ Rep 1	65931/40577/ Rep 2	Phylum	Class
Tanytarsus sp. e epler	-	-	-	-	Arthropoda	Insecta
Tanytarsus sp. f epler	-	-	-	-	Arthropoda	Insecta
Tanytarsus sp. l epler	-	-	-	-	Arthropoda	Insecta
Tanytarsus sp. m epler	-	-	-	-	Arthropoda	Insecta
Tanytarsus sp. n epler	-	-	-	-	Arthropoda	Insecta
Tanytarsus sp. o epler	-	-	-	-	Arthropoda	Insecta
Tanytarsus sp. p epler	-	-	-	-	Arthropoda	Insecta
Tanytarsus sp. s epler	-	-	-	-	Arthropoda	Insecta
Tanytarsus sp. t epler	-	-	-	-	Arthropoda	Insecta
Tanytarsus sp. y epler	-	-	-	-	Arthropoda	Insecta
Thienemanniella	-	-	-	-	Arthropoda	Insecta
Thienemanniella lobapodema	-	-	2	-	Arthropoda	Insecta
Thienemanniella similis	-	-	-	-	Arthropoda	Insecta
Thienemanniella xena	-	-	-	-	Arthropoda	Insecta
Thienemannimyia grp.	-	-	-	-	Arthropoda	Insecta
Tipula	-	-	1	-	Arthropoda	Insecta
Tipula caloptera	-	-	-	1	Arthropoda	Insecta
Tipulidae	-	-	-	-	Arthropoda	Insecta
Torrenticola	-	-	-	-	Arthropoda	Arachnida
Triaenodes	2	1	-	-	Arthropoda	Insecta
Triaenodes ignitus	-	-	-	-	Arthropoda	Insecta
Triaenodes perna/helo	-	-	-	-	Arthropoda	Insecta
Tribelos	-	-	-	-	Arthropoda	Insecta
Tribelos fuscicornis	-	1	1	2	Arthropoda	Insecta
Tribelos jucundum	-	-	-	-	Arthropoda	Insecta
Tricorythodes albilineatus	-	-	3	1	Arthropoda	Insecta
Tubificidae	-	-	-	-	Annelida	Oligochaeta
Tvetenia	-	-	-	-	Arthropoda	Insecta
Tvetenia vitracies	-	-	-	-	Arthropoda	Insecta
Vertigo	-	-	-	-	Mollusca	Gastropoda
Viviparus georgianus	-	-	-	-	Mollusca	Gastropoda
Xenochironomus xenolabis	-	-	-	-	Arthropoda	Insecta
Xestochironomus	1	1	-	-	Arthropoda	Insecta
Xylotopus par	-	1	-	-	Arthropoda	Insecta
Zavreliella marmorata	-	-	-	-	Arthropoda	Insecta
Zavrelimyia sp. a epler	-	-	-	-	Arthropoda	Insecta

As Calculated / STORET station ->
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Taxon Name / SampleID/BenthID ->	Order	Family	Genus
Ablabesmyia mallochi	Diptera	Chironomidae	Ablabesmyia
Ablabesmyia rhamphe grp.	Diptera	Chironomidae	Ablabesmyia
Acentrella	Ephemeroptera	Baetidae	Acentrella
Acentrella parvula	Ephemeroptera	Baetidae	Acentrella
Acerpenna pygmaea	Ephemeroptera	Baetidae	Acerpenna
Acroneuria	Plecoptera	Perlidae	Acroneuria
Acroneuria abnormis	Plecoptera	Perlidae	Acroneuria
Acroneuria lycorias	Plecoptera	Perlidae	Acroneuria
Agnetina annulipes	Plecoptera	Perlidae	Agnetina
Allonais inaequalis	Haplotaxida	Naididae	Allonais
Amnicola	Mesogastropoda	Bithyniidae	Amnicola
Amphipoda	Amphipoda		
Ancylidae	Basommatophora	Ancylidae	
Ancyronyx variegatus	Coleoptera	Elmidae	Ancyronyx
Anisocentropus pyraloides	Trichoptera	Calamoceratidae	Anisocentropus
Apedilum	Diptera	Chironomidae	Apedilum
Argia	Odonata	Coenagrionidae	Argia
Argia fumipennis	Odonata	Coenagrionidae	Argia
Argia tibialis	Odonata	Coenagrionidae	Argia
Arrenurus	Acariformes	Arrenuridae	Arrenurus
Asioplax	Ephemeroptera	Leptohyphidae	Asioplax
Atherix	Diptera	Athericidae	Atherix
Atractides	Acariformes	Hygrobatidae	Atractides
Atrichopogon	Diptera	Ceratopogonidae	Atrichopogon
Aulodrilus pigueti	Haplotaxida	Tubificidae	Aulodrilus
Baetidae	Ephemeroptera	Baetidae	
Baetis intercalaris	Ephemeroptera	Baetidae	Baetis
Baetisca becki	Ephemeroptera	Baetiscidae	Baetisca
Baetisca rogersi	Ephemeroptera	Baetiscidae	Baetisca
Beardius	Diptera	Chironomidae	Beardius
Berosus	Coleoptera	Hydrophilidae	Berosus
Bivalvia			
Boyeria vinosa	Odonata	Aeshnidae	Boyeria
Brachycentrus chelatus	Trichoptera	Brachycentridae	Brachycentrus
Brachycentrus numerosus	Trichoptera	Brachycentridae	Brachycentrus
Branchiobdellidae	Branchiobdellida	Branchiobdellidae	
Bratislavia unidentata	Haplotaxida	Naididae	Bratislavia
Brillia	Diptera	Chironomidae	Brillia
Caecidotea	Isopoda	Asellidae	Caecidotea
Caenis	Ephemeroptera	Caenidae	Caenis
Caenis diminuta	Ephemeroptera	Caenidae	Caenis
Caenis eglinensis	Ephemeroptera	Caenidae	Caenis
Caenis hilaris	Ephemeroptera	Caenidae	Caenis
Callibaetis	Ephemeroptera	Baetidae	Callibaetis
Callibaetis floridanus	Ephemeroptera	Baetidae	Callibaetis
Calopterygidae	Odonata	Calopterygidae	
Calopteryx	Odonata	Calopterygidae	Calopteryx
Cambaridae	Decapoda	Cambaridae	
Campeloma	Mesogastropoda	Viviparidae	Campeloma
Cecidomyiidae	Diptera	Cecidomyiidae	

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Taxon Name / SampleID/BenthID ->	Order	Family	Genus
Celina	Coleoptera	Dytiscidae	Celina
Centroptilum triangulifer	Ephemeroptera	Baetidae	Centroptilum
Ceraclea	Trichoptera	Leptoceridae	Ceraclea
Ceratopogonidae	Diptera	Ceratopogonidae	
Cernotina	Trichoptera	Polycentropodidae	Cernotina
Chauliodes	Megaloptera	Corydalidae	Chauliodes
Cheumatopsyche	Trichoptera	Hydropsychidae	Cheumatopsyche
Chimarra	Trichoptera	Philopotamidae	Chimarra
Chironomus	Diptera	Chironomidae	Chironomus
Choroterpes basalis	Ephemeroptera	Leptophlebiidae	Choroterpes
Chrysomelidae	Coleoptera	Chrysomelidae	
Cladotanytarsus	Diptera	Chironomidae	Cladotanytarsus
Cladotanytarsus cf. daviesi	Diptera	Chironomidae	Cladotanytarsus
Cladotanytarsus sp. d epler	Diptera	Chironomidae	Cladotanytarsus
Cladotanytarsus sp. f epler	Diptera	Chironomidae	Cladotanytarsus
Cladotanytarsus viridiventris	Diptera	Chironomidae	Cladotanytarsus
Clathrosperchon	Acariformes	Clathrosperchonidae	Clathrosperchon
Climacia areolaris	Megaloptera	Sisyridae	Climacia
Clinotanypus	Diptera	Chironomidae	Clinotanypus
Coenagrionidae	Odonata	Coenagrionidae	
Corbicula fluminea	Veneroida	Corbiculidae	Corbicula
Corydalidae	Megaloptera	Corydalidae	
Corydalus cornutus	Megaloptera	Corydalidae	Corydalus
Corynoneura	Diptera	Chironomidae	Corynoneura
Crangonyx	Amphipoda	Crangonyctidae	Crangonyx
Cricotopus	Diptera	Chironomidae	Cricotopus
Cricotopus bicinctus	Diptera	Chironomidae	Cricotopus
Cricotopus or orthocladius	Diptera	Chironomidae	Cricotopus or orthocladius
Cryptochironomus	Diptera	Chironomidae	Cryptochironomus
Cryptotendipes	Diptera	Chironomidae	Cryptotendipes
Curculionidae	Coleoptera	Curculionidae	
Cyrnellus fraternus	Trichoptera	Polycentropodidae	Cyrnellus
Dasyhelea	Diptera	Ceratopogonidae	Dasyhelea
Dero	Haplotaxida	Naididae	Dero
Dero digitata complex	Haplotaxida	Naididae	Dero
Dero flabelliger	Haplotaxida	Naididae	Dero
Dero furcata	Haplotaxida	Naididae	Dero
Dero pectinata	Haplotaxida	Naididae	Dero
Desmopachria	Coleoptera	Dytiscidae	Desmopachria
Desserobdella phalera	Rhynchobdellida	Glossiphoniidae	Desserobdella
Dicrotendipes	Diptera	Chironomidae	Dicrotendipes
Dicrotendipes modestus	Diptera	Chironomidae	Dicrotendipes
Dicrotendipes neomodestus	Diptera	Chironomidae	Dicrotendipes
Dicrotendipes simpsoni	Diptera	Chironomidae	Dicrotendipes
Dicrotendipes sp. a epler	Diptera	Chironomidae	Dicrotendipes
Dineutus	Coleoptera	Gyrinidae	Dineutus
Diplectrona	Trichoptera	Hydropsychidae	Diplectrona
Djalmabatista pulcher	Diptera	Chironomidae	Djalmabatista
Dryopidae	Coleoptera	Dryopidae	
Dubiraphia vittata	Coleoptera	Elmidae	Dubiraphia

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Taxon Name / SampleID/BenthID ->	Order	Family	Genus
Dytiscidae	Coleoptera	Dytiscidae	
Eclipidrilus	Lumbriculida	Lumbriculidae	Eclipidrilus
Eclipidrilus palustris	Lumbriculida	Lumbriculidae	Eclipidrilus
Ectopria	Coleoptera	Psephenidae	Ectopria
Ectopria thoracica	Coleoptera	Psephenidae	Ectopria
Einfeldia sp. a epler	Diptera	Chironomidae	Einfeldia
Elimia	Mesogastropoda	Pleuroceridae	Elimia
Elmidae	Coleoptera	Elmidae	
Enallagma	Odonata	Coenagrionidae	Enallagma
Enallagma coecum	Odonata	Coenagrionidae	Enallagma
Enchytraeidae	Haplotaxida	Enchytraeidae	
Endotribelos hesperium	Diptera	Chironomidae	Endotribelos
Enochrus	Coleoptera	Hydrophilidae	Enochrus
Epicordulia princeps regina	Odonata	Libellulidae	Epicordulia
Eurylophella doris	Ephemeroptera	Ephemerellidae	Eurylophella
Ferrissia	Basommatophora	Ancylidae	Ferrissia
Gastropoda			
Geayia	Acariformes	Krendowskiidae	Geayia
Gerridae	Heteroptera	Gerridae	
Glossiphoniidae	Rhynchobdellida	Glossiphoniidae	
Goeldichironomus	Diptera	Chironomidae	Goeldichironomus
Goeldichironomus cf. natans	Diptera	Chironomidae	Goeldichironomus
Goeldichironomus holoprasinus	Diptera	Chironomidae	Goeldichironomus
Gomphidae	Odonata	Gomphidae	
Gomphus	Odonata	Gomphidae	Gomphus
Gonielmis dietrichi	Coleoptera	Elmidae	Gonielmis
Gyrinidae	Coleoptera	Gyrinidae	
Gyrinus	Coleoptera	Gyrinidae	Gyrinus
Haemonais waldvogeli	Haplotaxida	Naididae	Haemonais
Hagenius brevistylus	Odonata	Gomphidae	Hagenius
Haitia	Basommatophora	Physidae	Haitia
Hayesomyia senata	Diptera	Chironomidae	Hayesomyia
Helichus	Coleoptera	Dryopidae	Helichus
Helichus lithophilus	Coleoptera	Dryopidae	Helichus
Helobdella stagnalis	Rhynchobdellida	Glossiphoniidae	Helobdella
Helobdella triserialis	Rhynchobdellida	Glossiphoniidae	Helobdella
Hemerodromia	Diptera	Empididae	Hemerodromia
Heptageniidae	Ephemeroptera	Heptageniidae	
Hetaerina	Odonata	Calopterygidae	Hetaerina
Hetaerina titia	Odonata	Calopterygidae	Hetaerina
Hexagenia	Ephemeroptera	Ephemeridae	Hexagenia
Hexatoma	Diptera	Tipulidae	Hexatoma
Hirudinea			
Hyalella azteca	Amphipoda	Hyalellidae	Hyalella
Hydraena	Coleoptera	Hydraenidae	Hydraena
Hydrobiidae	Mesogastropoda	Hydrobiidae	
Hydrodroma	Acariformes	Hydrodromidae	Hydrodroma
Hydrometra	Heteroptera	Hydrometridae	Hydrometra
Hydrophilidae	Coleoptera	Hydrophilidae	
Hydropsyche	Trichoptera	Hydropsychidae	Hydropsyche

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Taxon Name / SampleID/BenthID ->	Order	Family	Genus
Hydropsyche incommoda	Trichoptera	Hydropsychidae	Hydropsyche
Hydropsyche mississippiensis	Trichoptera	Hydropsychidae	Hydropsyche
Hydroptila	Trichoptera	Hydroptilidae	Hydroptila
Hydrovatus	Coleoptera	Dytiscidae	Hydrovatus
Hygrobates	Acariformes	Hygrobatidae	Hygrobates
Ischnura	Odonata	Coenagrionidae	Ischnura
Isonychia	Ephemeroptera	Oligoneuriidae	Isonychia
Kiefferulus	Diptera	Chironomidae	Kiefferulus
Koenikea	Acariformes	Unionicolidae	Koenikea
Krendowskia	Acariformes	Krendowskiidae	Krendowskia
Labrundinia	Diptera	Chironomidae	Labrundinia
Labrundinia becki	Diptera	Chironomidae	Labrundinia
Labrundinia johannseni	Diptera	Chironomidae	Labrundinia
Labrundinia pilosella	Diptera	Chironomidae	Labrundinia
Labrundinia sp. 3 nr. virescens	Diptera	Chironomidae	Labrundinia
Laccophilus	Coleoptera	Dytiscidae	Laccophilus
Laevapex	Basommatophora	Ancylidae	Laevapex
Larsia	Diptera	Chironomidae	Larsia
Larsia decolorata	Diptera	Chironomidae	Larsia
Lauterborniella agrayloides	Diptera	Chironomidae	Lauterborniella
Lebertia	Acariformes	Lebertiidae	Lebertia
Lepidoptera	Lepidoptera		
Lepidostoma	Trichoptera	Lepidostomatidae	Lepidostoma
Leptophlebiidae	Ephemeroptera	Leptophlebiidae	
Leuctra	Plecoptera	Leuctridae	Leuctra
Libellulidae	Odonata	Libellulidae	
Limnesia	Acariformes	Limnesiidae	Limnesia
Limnodrilus hoffmeisteri	Haplotaxida	Tubificidae	Limnodrilus
Lioporeus	Coleoptera	Dytiscidae	Lioporeus
Lirceus	Isopoda	Asellidae	Lirceus
Lopescladius	Diptera	Chironomidae	Lopescladius
Lumbriculus variegatus	Lumbriculida	Lumbriculidae	Lumbriculus
Lymnaeidae	Basommatophora	Lymnaeidae	
Lype diversa	Trichoptera	Psychomyiidae	Lype
Maccaffertium	Ephemeroptera	Heptageniidae	Maccaffertium
Maccaffertium exiguum	Ephemeroptera	Heptageniidae	Maccaffertium
Maccaffertium smithae	Ephemeroptera	Heptageniidae	Maccaffertium
Macromia	Odonata	Libellulidae	Macromia
Macromia illinoiensis georgina	Odonata	Libellulidae	Macromia
Macronychus glabratus	Coleoptera	Elmidae	Macronychus
Macrostemum carolina	Trichoptera	Hydropsychidae	Macrostemum
Mayatrichia ayama	Trichoptera	Hydroptilidae	Mayatrichia
Megistocera	Diptera	Tipulidae	Megistocera
Mesonoterus	Coleoptera	Noteridae	Mesonoterus
Mesovelia	Heteroptera	Mesoveliidae	Mesovelia
Micrasema	Trichoptera	Brachycentridae	Micrasema
Microcylloepus pusillus	Coleoptera	Elmidae	Microcylloepus
Micromenetus	Basommatophora	Planorbidae	Micromenetus
Micromenetus dilatatus avus	Basommatophora	Planorbidae	Micromenetus
Micropsectra	Diptera	Chironomidae	Micropsectra

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Taxon Name / SampleID/BenthID ->	Order	Family	Genus
Microtendipes	Diptera	Chironomidae	Microtendipes
Microtendipes pedellus grp.	Diptera	Chironomidae	Microtendipes
Microtendipes rydalensis grp.	Diptera	Chironomidae	Microtendipes
Microvelia	Heteroptera	Veliidae	Microvelia
Mideopsis	Acariformes	Mideopsidae	Mideopsis
Momonia	Acariformes	Momoniidae	Momonia
Monopelopia	Diptera	Chironomidae	Monopelopia
Mooreobdella	Arhynchobdellida	Erpobdellidae	Mooreobdella
Naididae	Haplotaxida	Naididae	
Nais communis complex	Haplotaxida	Naididae	Nais(animal)
Nais(animal)	Haplotaxida	Naididae	Nais(animal)
Nanocladius	Diptera	Chironomidae	Nanocladius
Nectopsyche	Trichoptera	Leptoceridae	Nectopsyche
Nectopsyche exquisita	Trichoptera	Leptoceridae	Nectopsyche
Nectopsyche pavida	Trichoptera	Leptoceridae	Nectopsyche
Neoephemera	Ephemeroptera	Neoephemeridae	Neoephemera
Neoperla	Plecoptera	Perlidae	Neoperla
Neoplasta	Diptera	Empididae	Neoplasta
Neoplea	Heteroptera	Pleidae	Neoplea
Neoporus	Coleoptera	Dytiscidae	Neoporus
Neotrichia	Trichoptera	Hydroptilidae	Neotrichia
Neureclipsis	Trichoptera	Polycentropodidae	Neureclipsis
Neureclipsis crepuscularis	Trichoptera	Polycentropodidae	Neureclipsis
Neurocordulia	Odonata	Libellulidae	Neurocordulia
Neurocordulia alabamensis	Odonata	Libellulidae	Neurocordulia
Nigronia	Megaloptera	Corydalidae	Nigronia
Nigronia serricornis	Megaloptera	Corydalidae	Nigronia
Nilotanypus americanus	Diptera	Chironomidae	Nilotanypus
Nilotanypus fimbriatus	Diptera	Chironomidae	Nilotanypus
Nilothauma	Diptera	Chironomidae	Nilothauma
Notomicrus nanulus	Coleoptera	Noteridae	Notomicrus
Nyctiophylax	Trichoptera	Polycentropodidae	Nyctiophylax
Oecetis	Trichoptera	Leptoceridae	Oecetis
Oecetis avara	Trichoptera	Leptoceridae	Oecetis
Oecetis cinerascens	Trichoptera	Leptoceridae	Oecetis
Oecetis georgia	Trichoptera	Leptoceridae	Oecetis
Oecetis sphyra/morsei	Trichoptera	Leptoceridae	Oecetis
Ora/scirtes	Coleoptera	Scirtidae	Ora/scirtes
Oribatida	Oribatida		
Ormosia	Diptera	Tipulidae	Ormosia
Orthocladius annectens	Diptera	Chironomidae	Orthocladius
Orthotrichia	Trichoptera	Hydroptilidae	Orthotrichia
Oxus	Acariformes	Oxidae	Oxus
Oxyethira	Trichoptera	Hydroptilidae	Oxyethira
Pachydiplax longipennis	Odonata	Libellulidae	Pachydiplax
Palaemonetes	Decapoda	Palaemonidae	Palaemonetes
Palpomyia/bezzia grp.	Diptera	Ceratopogonidae	Palpomyia/bezzia grp.
Parachaetocladius abnobaeus	Diptera	Chironomidae	Parachaetocladius
Parachironomus	Diptera	Chironomidae	Parachironomus
Parachironomus chaetoalus complex	Diptera	Chironomidae	Parachironomus

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Taxon Name / SampleID/BenthID ->	Order	Family	Genus
Parachironomus supparilis	Diptera	Chironomidae	Parachironomus
Paracladopelma	Diptera	Chironomidae	Paracladopelma
Paracymus	Coleoptera	Hydrophilidae	Paracymus
Parakiefferiella sp. b epler	Diptera	Chironomidae	Parakiefferiella
Parakiefferiella sp. f epler	Diptera	Chironomidae	Parakiefferiella
Paralauterborniella nigrohalterale	Diptera	Chironomidae	Paralauterborniella
Paraleptophlebia volitans	Ephemeroptera	Leptophlebiidae	Paraleptophlebia
Paramerina	Diptera	Chironomidae	Paramerina
Parametriocnemus	Diptera	Chironomidae	Parametriocnemus
Paratanytarsus	Diptera	Chironomidae	Paratanytarsus
Paratanytarsus dissimilis	Diptera	Chironomidae	Paratanytarsus
Paratanytarsus quadratus	Diptera	Chironomidae	Paratanytarsus
Paratendipes subaequalis	Diptera	Chironomidae	Paratendipes
Pelonomus obscurus	Coleoptera	Dryopidae	Pelonomus
Peltodytes	Coleoptera	Haliplidae	Peltodytes
Peltodytes dietrichi	Coleoptera	Haliplidae	Peltodytes
Pentaneura inconspicua	Diptera	Chironomidae	Pentaneura
Perlesta placida complex	Plecoptera	Perlidae	Perlesta
Perlinella drymo	Plecoptera	Perlidae	Perlinella
Phaenopsectra flavipes	Diptera	Chironomidae	Phaenopsectra
Phylocentropus	Trichoptera	Dipseudopsidae	Phylocentropus
Physa	Basommatophora	Physidae	Physa
Physidae	Basommatophora	Physidae	
Pilaria	Diptera	Tipulidae	Pilaria
Placobdella	Rhynchobdellida	Glossiphoniidae	Placobdella
Planorbella	Basommatophora	Planorbidae	Planorbella
Planorbidae	Basommatophora	Planorbidae	
Platyhelminthes			
Plauditus	Ephemeroptera	Baetidae	Plauditus
Plauditus bimaculatus	Ephemeroptera	Baetidae	Plauditus
Plecoptera	Plecoptera		
Polycentropodidae	Trichoptera	Polycentropodidae	
Polycentropus	Trichoptera	Polycentropodidae	Polycentropus
Polypedilum aviceps	Diptera	Chironomidae	Polypedilum
Polypedilum fallax	Diptera	Chironomidae	Polypedilum
Polypedilum flavum	Diptera	Chironomidae	Polypedilum
Polypedilum halterale grp.	Diptera	Chironomidae	Polypedilum
Polypedilum illinoense grp.	Diptera	Chironomidae	Polypedilum
Polypedilum scalaenum grp.	Diptera	Chironomidae	Polypedilum
Polypedilum sp. a epler	Diptera	Chironomidae	Polypedilum
Polypedilum trigonus	Diptera	Chironomidae	Polypedilum
Polypedilum tritum	Diptera	Chironomidae	Polypedilum
Potthastia	Diptera	Chironomidae	Potthastia
Potthastia longimana	Diptera	Chironomidae	Potthastia
Pristina	Haplotaxida	Naididae	Pristina
Procambarus	Decapoda	Cambaridae	Procambarus
Procladius	Diptera	Chironomidae	Procladius
Procloeon	Ephemeroptera	Baetidae	Procloeon
Progomphus	Odonata	Gomphidae	Progomphus
Progomphus obscurus	Odonata	Gomphidae	Progomphus

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenthID ->	Order	Family	Genus
Promoresia tardella	Coleoptera	Elmidae	Promoresia
Prostoma	Hoplonemertea	Tetrastemmatidae	Prostoma
Psectrocladius	Diptera	Chironomidae	Psectrocladius
Pseudochironomus	Diptera	Chironomidae	Pseudochironomus
Pseudocloeon	Ephemeroptera	Baetidae	Pseudocloeon
Pseudocloeon ephippiatum	Ephemeroptera	Baetidae	Pseudocloeon
Pseudocloeon frondale	Ephemeroptera	Baetidae	Pseudocloeon
Pseudocloeon propinquum	Ephemeroptera	Baetidae	Pseudocloeon
Pseudolimnophila	Diptera	Tipulidae	Pseudolimnophila
Psychodidae	Diptera	Psychodidae	
Pteronarcys dorsata	Plecoptera	Pteronarcidae	Pteronarcys
Pyralidae	Lepidoptera	Pyralidae	
Rheocricotopus robacki	Diptera	Chironomidae	Rheocricotopus
Rheotanytarsus	Diptera	Chironomidae	Rheotanytarsus
Rheotanytarsus exiguus grp.	Diptera	Chironomidae	Rheotanytarsus
Rheotanytarsus pellucidus	Diptera	Chironomidae	Rheotanytarsus
Rhyncholimnochares	Acariformes	Limnocharidae	Rhyncholimnochares
Robackia claviger	Diptera	Chironomidae	Robackia
Serratella deficiens	Ephemeroptera	Ephemerellidae	Teloganopsis
Sialis	Megaloptera	Sialidae	Sialis
Simulium	Diptera	Simuliidae	Simulium
Simulium jonesi	Diptera	Simuliidae	Simulium
Sisyra	Megaloptera	Sisyridae	Sisyra
Slavina appendiculata	Haplotaxida	Naididae	Slavina
Sperchon	Acariformes	Sperchonidae	Sperchon
Sperchonopsis	Acariformes	Sperchonidae	Sperchonopsis
Sperchopsis	Coleoptera	Hydrophilidae	Sperchopsis
Sperchopsis tessellatus	Coleoptera	Hydrophilidae	Sperchopsis
Sphaeriidae(mollusca)	Veneroida	Sphaeriidae(mollusca)	
Spirosperma	Haplotaxida	Tubificidae	Spirosperma
Staphylinidae	Coleoptera	Staphylinidae	
Stelechomyia perpulchra	Diptera	Chironomidae	Stelechomyia
Stempellina	Diptera	Chironomidae	Stempellina
Stempellinella	Diptera	Chironomidae	Stempellinella
Stempellinella fimbriata	Diptera	Chironomidae	Stempellinella
Stempellinella leptocelloides	Diptera	Chironomidae	Stempellinella
Stenacron	Ephemeroptera	Heptageniidae	Stenacron
Stenacron interpunctatum	Ephemeroptera	Heptageniidae	Stenacron
Stenelmis	Coleoptera	Elmidae	Stenelmis
Stenochironomus	Diptera	Chironomidae	Stenochironomus
Stenus	Coleoptera	Staphylinidae	Stenus
Stephensoniana trivandrana	Haplotaxida	Naididae	Stephensoniana
Stratiomyidae	Diptera	Stratiomyidae	
Sympetrum	Odonata	Libellulidae	Sympetrum
Tabanidae	Diptera	Tabanidae	
Taeniopteryx	Plecoptera	Taeniopterygidae	Taeniopteryx
Tanytarsus	Diptera	Chironomidae	Tanytarsus
Tanytarsus sp. a epler	Diptera	Chironomidae	Tanytarsus
Tanytarsus sp. c epler	Diptera	Chironomidae	Tanytarsus
Tanytarsus sp. d epler	Diptera	Chironomidae	Tanytarsus

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenthID ->	Order	Family	Genus
Tanytarsus sp. e epler	Diptera	Chironomidae	Tanytarsus
Tanytarsus sp. f epler	Diptera	Chironomidae	Tanytarsus
Tanytarsus sp. l epler	Diptera	Chironomidae	Tanytarsus
Tanytarsus sp. m epler	Diptera	Chironomidae	Tanytarsus
Tanytarsus sp. n epler	Diptera	Chironomidae	Tanytarsus
Tanytarsus sp. o epler	Diptera	Chironomidae	Tanytarsus
Tanytarsus sp. p epler	Diptera	Chironomidae	Tanytarsus
Tanytarsus sp. s epler	Diptera	Chironomidae	Tanytarsus
Tanytarsus sp. t epler	Diptera	Chironomidae	Tanytarsus
Tanytarsus sp. y epler	Diptera	Chironomidae	Tanytarsus
Thienemanniella	Diptera	Chironomidae	Thienemanniella
Thienemanniella lobapodema	Diptera	Chironomidae	Thienemanniella
Thienemanniella similis	Diptera	Chironomidae	Thienemanniella
Thienemanniella xena	Diptera	Chironomidae	Thienemanniella
Thienemannimyia grp.	Diptera	Chironomidae	Thienemannimyia grp.
Tipula	Diptera	Tipulidae	Tipula
Tipula caloptera	Diptera	Tipulidae	Tipula
Tipulidae	Diptera	Tipulidae	
Torrenticola	Acariformes	Torrenticolidae	Torrenticola
Triaenodes	Trichoptera	Leptoceridae	Triaenodes
Triaenodes ignitus	Trichoptera	Leptoceridae	Triaenodes
Triaenodes perna/helo	Trichoptera	Leptoceridae	Triaenodes
Tribelos	Diptera	Chironomidae	Tribelos
Tribelos fuscicornis	Diptera	Chironomidae	Tribelos
Tribelos jucundum	Diptera	Chironomidae	Tribelos
Tricorythodes albilineatus	Ephemeroptera	Leptohyphidae	Tricorythodes
Tubificidae	Haplotaxida	Tubificidae	
Tvetenia	Diptera	Chironomidae	Tvetenia
Tvetenia vitracies	Diptera	Chironomidae	Tvetenia
Vertigo	Stylommatophora	Pupillidae	Vertigo
Viviparus georgianus	Mesogastropoda	Viviparidae	Viviparus
Xenochironomus xenolabis	Diptera	Chironomidae	Xenochironomus
Xestochironomus	Diptera	Chironomidae	Xestochironomus
Xylotopus par	Diptera	Chironomidae	Xylotopus
Zavreliella marmorata	Diptera	Chironomidae	Zavreliella
Zavrelimyia sp. a epler	Diptera	Chironomidae	Zavrelimyia

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenthID ->	Current Name
Ablabesmyia mallochi	
Ablabesmyia rhamphe grp.	
Acentrella	
Acentrella parvula	
Acerpenna pygmaea	
Acroneuria	
Acroneuria abnormis	
Acroneuria lycorias	
Agnetina annulipes	
Allonais inaequalis	
Amnicola	
Amphipoda	
Ancylidae	
Ancyronyx variegatus	
Anisocentropus pyraloides	
Apedilum	
Argia	
Argia fumipennis	
Argia tibialis	
Arrenurus	
Asioplax	
Atherix	
Atractides	
Atrichopogon	
Aulodrilus pigueti	
Baetidae	
Baetis intercalaris	
Baetisca becki	
Baetisca rogersi	
Beardius	
Berosus	
Bivalvia	
Boyeria vinosa	
Brachycentrus chelatus	
Brachycentrus numerosus	
Branchiobdellidae	
Bratislavia unidentata	
Brillia	
Caecidotea	
Caenis	
Caenis diminuta	
Caenis eglinensis	
Caenis hilaris	
Callibaetis	
Callibaetis floridanus	
Calopterygidae	
Calopteryx	
Cambaridae	
Campeloma	
Cecidomyiidae	

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenthID ->	Current Name
Celina	
Centroptilum triangulifer	
Ceraclea	
Ceratopogonidae	
Cernotina	
Chauliodes	
Cheumatopsyche	
Chimarra	
Chironomus	
Choroterpes basalis	
Chrysomelidae	
Cladotanytarsus	
Cladotanytarsus cf. daviesi	
Cladotanytarsus sp. d epler	
Cladotanytarsus sp. f epler	
Cladotanytarsus viridiventris	
Clathrosperchon	
Climacia areolaris	
Clinotanypus	
Coenagrionidae	
Corbicula fluminea	
Corydalidae	
Corydalus cornutus	
Corynoneura	
Crangonyx	
Cricotopus	
Cricotopus bicinctus	
Cricotopus or orthocladius	
Cryptochironomus	
Cryptotendipes	
Curculionidae	
Cyrnellus fraternus	
Dasyhelea	
Dero	
Dero digitata complex	
Dero flabelliger	
Dero furcata	
Dero pectinata	
Desmopachria	
Desserobdella phalera	
Dicrotendipes	
Dicrotendipes modestus	
Dicrotendipes neomodestus	
Dicrotendipes simpsoni	
Dicrotendipes sp. a epler	
Dineutus	
Diplectrona	
Djalmabatista pulcher	
Dryopidae	
Dubiraphia vittata	

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenthID ->	Current Name
Dytiscidae	
Eclipidrilus	
Eclipidrilus palustris	
Ectopria	
Ectopria thoracica	
Einfeldia sp. a epler	
Elimia	
Elmidae	
Enallagma	
Enallagma coecum	
Enchytraeidae	
Endotribelos hesperium	
Enochrus	
Epicordulia princeps regina	
Eurylophella doris	
Ferrissia	
Gastropoda	
Geayia	
Gerridae	
Glossiphoniidae	
Goeldichironomus	
Goeldichironomus cf. natans	
Goeldichironomus holoprasinus	
Gomphidae	
Gomphus	
Gonielmis dietrichi	
Gyrinidae	
Gyrinus	
Haemonais waldvogeli	
Hagenius brevistylus	
Haitia	Physa
Hayesomyia senata	
Helichus	
Helichus lithophilus	
Helobdella stagnalis	
Helobdella triserialis	
Hemerodromia	
Heptageniidae	
Hetaerina	
Hetaerina titia	
Hexagenia	
Hexatoma	
Hirudinea	
Hyalella azteca	
Hydraena	
Hydrobiidae	
Hydrodroma	
Hydrometra	
Hydrophilidae	
Hydropsyche	

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenthID ->	Current Name
Hydropsyche incommoda	
Hydropsyche mississippiensis	
Hydroptila	
Hydrovatus	
Hygrobates	
Ischnura	
Isonychia	
Kiefferulus	
Koenikea	
Krendowskia	
Labrundinia	
Labrundinia becki	
Labrundinia johannseni	
Labrundinia pilosella	
Labrundinia sp. 3 nr. virescens	
Laccophilus	
Laevapex	
Larsia	
Larsia decolorata	
Lauterborniella agrayloides	
Lebertia	
Lepidoptera	
Lepidostoma	
Leptophlebiidae	
Leuctra	
Libellulidae	
Limnesia	
Limnodrilus hoffmeisteri	
Lioporeus	
Lirceus	
Lopescladius	
Lumbriculus variegatus	
Lymnaeidae	
Lype diversa	
Maccaffertium	
Maccaffertium exiguum	
Maccaffertium smithae	
Macromia	
Macromia illinoiensis georgina	
Macronychus glabratus	
Macrostemum carolina	
Mayatrichia ayama	
Megistocera	
Mesonoterus	
Mesovelia	
Micrasema	
Microcylloepus pusillus	
Micromenetus	
Micromenetus dilatatus avus	
Micropsectra	

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenthID ->	Current Name
Microtendipes	
Microtendipes pedellus grp.	
Microtendipes rydalensis grp.	
Microvelia	
Mideopsis	
Momonia	
Monopelopia	
Mooreobdella	
Naididae	
Nais communis complex	
Nais(animal)	
Nanocladius	
Nectopsyche	
Nectopsyche exquisita	
Nectopsyche pavida	
Neoephemera	
Neoperla	
Neoplasta	
Neoplea	
Neoporus	
Neotrichia	
Neureclipsis	
Neureclipsis crepuscularis	
Neurocordulia	
Neurocordulia alabamensis	
Nigronia	
Nigronia serricornis	
Nilotanypus americanus	
Nilotanypus fimbriatus	
Nilothauma	
Notomicrus nanulus	
Nyctiophylax	
Oecetis	
Oecetis avara	
Oecetis cinerascens	
Oecetis georgia	
Oecetis sphyra/morsei	
Ora/scirtes	
Oribatida	
Ormosia	
Orthocladius annectens	
Orthotrichia	
Oxus	
Oxyethira	
Pachydiplax longipennis	
Palaemonetes	
Palpomyia/bezzia grp.	
Parachaetocladius abnobaeus	
Parachironomus	
Parachironomus chaetoalus complex	

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenthID ->	Current Name
Parachironomus supparilis	Parachironomus longistilus
Paracladopelma	
Paracymus	
Parakiefferiella sp. b epler	
Parakiefferiella sp. f epler	
Paralauterborniella nigrohalterale	
Paraleptophlebia volitans	
Paramerina	
Parametriocnemus	
Paratanytarsus	
Paratanytarsus dissimilis	
Paratanytarsus quadratus	
Paratendipes subaequalis	
Pelonomus obscurus	
Peltodytes	
Peltodytes dietrichi	
Pentaneura inconspicua	
Perlesta placida complex	
Perlinella drymo	
Phaenopsectra flavipes	
Phylocentropus	
Physa	
Physidae	
Pilaria	
Placobdella	
Planorbella	
Planorbidae	
Platyhelminthes	
Plauditus	
Plauditus bimaculatus	
Plecoptera	
Polycentropodidae	
Polycentropus	
Polypedilum aviceps	
Polypedilum fallax	
Polypedilum flavum	
Polypedilum halterale grp.	
Polypedilum illinoense grp.	
Polypedilum scalaenum grp.	
Polypedilum sp. a epler	
Polypedilum trigonus	
Polypedilum tritum	
Potthastia	
Potthastia longimana	
Pristina	
Procambarus	
Procladius	
Procloeon	
Progomphus	
Progomphus obscurus	

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenthID ->	Current Name
Promoresia tardella	
Prostoma	
Psectrocladius	
Pseudochironomus	
Pseudocloeon	
Pseudocloeon ephippiatum	
Pseudocloeon frondale	
Pseudocloeon propinquum	
Pseudolimnophila	
Psychodidae	
Pteronarcys dorsata	
Pyralidae	
Rheocricotopus robacki	
Rheotanytarsus	
Rheotanytarsus exiguus grp.	
Rheotanytarsus pellucidus	
Rhyncholimnochares	
Robackia claviger	
Serratella deficiens	Teloganopsis deficiens
Sialis	
Simulium	
Simulium jonesi	
Sisyra	
Slavina appendiculata	
Sperchon	
Sperchonopsis	
Sperchopsis	
Sperchopsis tessellatus	
Sphaeriidae(mollusca)	
Spirosperma	
Staphylinidae	
Stelechomyia perpulchra	
Stempellina	
Stempellinella	
Stempellinella fimbriata	
Stempellinella leptocelloides	
Stenacron	
Stenacron interpunctatum	
Stenelmis	
Stenochironomus	
Stenus	
Stephensoniana trivandrana	
Stratiomyidae	
Sympetrum	
Tabanidae	
Taeniopteryx	
Tanytarsus	
Tanytarsus sp. a epler	
Tanytarsus sp. c epler	
Tanytarsus sp. d epler	

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenthID ->	Current Name
Tanytarsus sp. e epler	
Tanytarsus sp. f epler	
Tanytarsus sp. l epler	
Tanytarsus sp. m epler	
Tanytarsus sp. n epler	
Tanytarsus sp. o epler	
Tanytarsus sp. p epler	
Tanytarsus sp. s epler	
Tanytarsus sp. t epler	
Tanytarsus sp. y epler	
Thienemanniella	
Thienemanniella lobapodema	
Thienemanniella similis	
Thienemanniella xena	
Thienemannimyia grp.	
Tipula	
Tipula caloptera	
Tipulidae	
Torrenticola	
Triaenodes	
Triaenodes ignitus	
Triaenodes perna/helo	
Tribelos	
Tribelos fuscicornis	
Tribelos jucundum	
Tricorythodes albilineatus	
Tubificidae	
Tvetenia	
Tvetenia vitracies	
Vertigo	
Viviparus georgianus	
Xenochironomus xenolabis	
Xestochironomus	
Xylotopus par	
Zavreliella marmorata	
Zavrelimyia sp. a epler	

As Calculated / STORET station ->	22030062	19010042	28020221	25020111
Sample date ->	3/21/1994	11/1/1994	7/27/1994	10/24/1994
	SampleID	SampleID	SampleID	SampleID
	3105/BenthID	3682/BenthID	3797/BenthID	3952/BenthID
Taxon Name / SampleID/BenID ->	3980(#counted)	4628(#counted)	4802(#counted)	5024(#counted)
Ablabesmyia (karelia) grp.	0	0	0	0
Ablabesmyia hauberi	0	0	1	0
Ablabesmyia mallochi	1	0	0	2
Ablabesmyia rhamphe grp.	0	0	5	0
Acentrella parvula	0	0	0	0
Acerpenna pygmaea	0	0	9	0
Acroneuria	0	0	0	0
Acroneuria abnormis	0	0	0	0
Acroneuria arenosa	0	0	0	0
Acroneuria arenosa/evoluta	0	0	0	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	0	0	0	0
Alluaudomyia	0	0	0	0
Amnicola	0	0	0	0
Amnicola dalli	0	0	0	0
Amnicola dalli johnsoni	0	0	0	0
Amphipoda	0	0	0	0
Ancylidae	0	0	0	0
Ancyronyx	0	0	0	0
Ancyronyx variegatus	0	2	0	0
Anisocentropus pyraloides	0	0	0	0
Anopheles	0	0	0	0
Apsectrotanypus johnsoni	0	0	0	0
Argia	0	3	0	0
Argia fumipennis	0	0	0	0
Argia moesta	0	0	0	0
Argia sedula	0	0	1	9
Argia tibialis	0	0	0	0
Arrenurus	0	0	0	0
Arrenurus problecornis	0	0	1	0
Astacidae	0	0	0	0
Atherix	0	0	0	0
Atractides	0	0	0	0
Atrichopogon	0	0	0	0
Aulodrilus pigueti	0	0	0	0
Aulodrilus pluriseta	0	0	0	0
Baetidae	0	0	0	0
Baetis	6	0	0	0
Baetis intercalaris	0	0	0	0
Baetisca rogersi	0	0	0	0
Beardius truncatus	0	0	0	0
Belostoma	0	0	0	0
Belostomatidae	0	0	0	0
Bivalvia	0	0	0	0
Bourletiella	0	0	0	0
Boyeria vinosa	0	0	0	0
Brachycentrus	0	0	0	0
Brachycentrus chelatus	0	0	0	0
Brachycentrus numerosus	0	0	0	0

As Calculated / STORET station ->	22030062	19010042	28020221	25020111
Sample date ->	3/21/1994	11/1/1994	7/27/1994	10/24/1994
	SampleID	SampleID	SampleID	SampleID
	3105/BenthID	3682/BenthID	3797/BenthID	3952/BenthID
Taxon Name / SampleID/BenID ->	3980(#counted)	4628(#counted)	4802(#counted)	5024(#counted)
Brachycercus maculatus	0	0	0	3
Caecidotea	0	0	0	0
Caecidotea racovitzai	0	0	0	0
Caenis	0	0	0	0
Caenis diminuta	0	0	0	0
Caenis hilaris	0	0	4	10
Callibaetis floridanus	0	0	0	0
Calopteryx	0	0	0	0
Calopteryx maculata	0	0	0	0
Cambaridae	0	0	0	0
Campeloma	0	0	0	0
Campeloma limum	0	0	0	0
Cassidinidea ovalis	0	0	0	0
Cecidomyiidae	0	0	0	0
Ceratopogonidae	0	0	1	2
Cernotina	0	0	0	0
Chaoborus	0	0	1	0
Chaoborus albatus	0	0	0	0
Chauliodes	0	0	0	0
Chelifera	0	0	0	0
Cheumatopsyche	1	0	2	5
Chimarra	0	4	0	0
Chironomus	0	0	0	0
Choroterpes basalis	0	0	0	0
Choroterpes hubbelli	0	0	11	0
Cladotanytarsus	0	0	0	0
Cladotanytarsus cf. daviesi	0	0	0	0
Cladotanytarsus sp. i epler	0	0	0	0
Clathrosperchon	0	0	0	0
Climacea areolaris	0	0	0	0
Clinotanypus	0	1	0	1
Coelotanypus	0	0	0	0
Coelotanypus scapularis	0	0	0	1
Coenagrionidae	0	0	0	0
Collembola	0	0	0	0
Conchapelopia	0	5	0	0
Corbicula fluminea	0	0	3	2
Corduliidae	0	0	0	0
Corydalus	0	0	0	0
Corydalus cornuta	0	0	0	2
Corydalus cornutus	0	0	0	0
Corynoneura	1	0	0	0
Corynoneura sp. b epler	0	0	0	0
Corynoneura sp. c epler	0	0	0	0
Corynoneura taris	0	0	0	0

As Calculated / STORET station ->	22030062	19010042	28020221	25020111
Sample date ->	3/21/1994	11/1/1994	7/27/1994	10/24/1994
	SampleID	SampleID	SampleID	SampleID
	3105/BenthID	3682/BenthID	3797/BenthID	3952/BenthID
Taxon Name / SampleID/BenID ->	3980(#counted)	4628(#counted)	4802(#counted)	5024(#counted)
Crangonyx	0	0	0	0
Cricotopus	0	0	0	0
Cricotopus bicinctus	0	0	0	0
Cricotopus bicinctus grp.	0	0	0	0
Cricotopus or orthocladius	3	0	0	0
Cryptochironomus	0	0	0	0
Cryptotendipes	0	0	0	0
Curculionidae	0	0	0	0
Cyrnellus fraternus	0	0	0	0
Demicryptochironomus	0	0	0	0
Dero digitata	0	0	0	0
Dero digitata complex	0	0	0	0
Dero lodeni	0	0	0	0
Dero pectinata	0	0	0	0
Dero trifida	0	0	0	0
Dero vaga	0	0	0	0
Dicrotendipes	0	0	0	0
Dicrotendipes modestus	0	0	0	0
Dicrotendipes neomodestus	0	0	0	0
Dicrotendipes simpsoni	0	0	0	0
Dicrotendipes sp. a epler	1	0	0	0
Dineutus	1	0	4	0
Dineutus discolor	0	0	0	0
Dineutus serrulatus	0	0	0	0
Diplectrona modesta	0	0	0	0
Dixa	0	0	0	0
Dixella	0	0	0	0
Djalmabatista pulcher	0	0	0	0
Dolichopodidae	0	0	0	0
Dromogomphus armatus	0	0	0	0
Dromogomphus spinosus	1	0	0	0
Dryopidae	0	0	0	2
Dubiraphia	0	0	0	0
Dubiraphia quadrinotata	0	0	14	8
Dubiraphia vittata	0	1	0	0
Dugesia	0	0	0	0
Dugesia tigrina	0	0	0	0
Eclipidrilus	0	0	0	0
Eclipidrilus palustris	0	0	0	0
Ectopria	0	0	0	0
Elimia	0	0	0	0
Elimia floridensis	4	0	0	0
Empididae	0	0	0	0
Enallagma	0	0	0	0

As Calculated / STORET station ->	22030062	19010042	28020221	25020111
Sample date ->	3/21/1994	11/1/1994	7/27/1994	10/24/1994
	SampleID	SampleID	SampleID	SampleID
	3105/BenthID	3682/BenthID	3797/BenthID	3952/BenthID
Taxon Name / SampleID/BenID ->	3980(#counted)	4628(#counted)	4802(#counted)	5024(#counted)
Enallagma cardenium	0	0	0	3
Enchytraeidae	0	5	0	0
Endotribelos hesperium	0	0	0	0
Enochrus	0	0	0	0
Ephemerellidae	0	0	0	0
Ephydridae	0	0	0	0
Epitheca	0	0	13	0
Epitheca princeps regina	0	0	0	0
Eurylophella doris	0	0	0	0
Eurylophella temporalis	0	1	0	0
Ferrissia	0	0	0	0
Gammaridae	0	0	0	0
Gammarus	6	0	0	0
Gammarus tigrinus	0	0	0	0
Gastropoda	0	0	0	0
Geayia	0	0	0	0
Gerridae	0	0	0	0
Gloiobdella elongata	0	0	0	0
Goeldichironomus fluctuans	0	0	0	1
Gomphidae	0	0	0	0
Gomphus	0	0	0	0
Gomphus minutus	0	0	1	1
Gonielmis	0	0	0	0
Gonielmis dietrichi	0	0	0	0
Grandidierella bonnieroides	0	0	0	0
Gyretes iricolor	0	0	0	0
Haber speciosus	0	0	0	0
Hagenius brevistylus	0	0	0	0
Hebetancylus excentricus	5	0	0	1
Helobdella stagnalis	0	0	0	0
Helobdella triserialis	0	0	0	0
Helopelopia	1	0	0	0
Hemerodromia	0	1	0	0
Hemiptera	0	0	0	0
Heptageniidae	0	0	0	0
Hetaerina	0	0	0	0
Hetaerina titia	0	0	0	1
Heteroplectron americanum	0	0	0	0
Hexagenia	0	0	0	0
Hexagenia bilineata	0	0	0	0
Hexagenia limbata	1	0	0	0
Hexagenia munda orlando	0	0	0	0
Hexatoma	0	0	0	0
Hyalella azteca	3	4	0	1
Hydra	0	0	0	0
Hydrachna	0	0	0	0
Hydraena marginicollis	0	0	0	0
Hydraenidae	0	0	0	0

As Calculated / STORET station ->	22030062	19010042	28020221	25020111
Sample date ->	3/21/1994	11/1/1994	7/27/1994	10/24/1994
	SampleID	SampleID	SampleID	SampleID
	3105/BenthID	3682/BenthID	3797/BenthID	3952/BenthID
Taxon Name / SampleID/BenID ->	3980(#counted)	4628(#counted)	4802(#counted)	5024(#counted)
Hydrobiidae	0	0	0	0
Hydrodroma	0	1	0	0
Hydrophilidae	0	0	0	0
Hydroporus	0	0	0	0
Hydropsyche	0	2	0	18
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	0	0	0
Hydroptila	1	0	1	0
Hydroptilidae	0	0	0	0
Hygrobates	0	0	0	0
Hygrotus	0	0	0	0
Ischnura	0	0	0	0
Ischnura hastata	2	0	0	0
Isonychia	0	1	0	0
Isoperla	0	0	0	0
Isopoda	0	0	0	0
Isotomurus	0	0	0	0
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	0	0	0
Krendowskia	0	0	0	0
Labiobaetis	0	0	0	0
Labrundinia	0	0	0	0
Labrundinia becki	0	0	0	0
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	1	2	0	0
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	0
Lauterborniella agrayloides	0	0	0	0
Lebertia	0	0	0	0
Lepidoptera	0	0	0	0
Leptoceridae	0	0	0	0
Leptophlebia	0	0	0	0
Leptophlebiidae	0	3	0	0
Leuctra	0	2	0	0
Libellulidae	0	0	0	0
Limnesia	0	0	1	0
Limnodrilus hoffmeisteri	2	0	0	0
Limnophila	0	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	0	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	0	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	0	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0	1	0	0

As Calculated / STORET station ->	22030062	19010042	28020221	25020111
Sample date ->	3/21/1994	11/1/1994	7/27/1994	10/24/1994
	SampleID	SampleID	SampleID	SampleID
	3105/BenthID	3682/BenthID	3797/BenthID	3952/BenthID
Taxon Name / SampleID/BenID ->	3980(#counted)	4628(#counted)	4802(#counted)	5024(#counted)
Lype diversa	0	0	0	0
Maccaffertium	0	0	0	0
Maccaffertium smithae	0	0	0	0
Macromia	0	0	0	0
Macromia taeniolata	0	0	0	2
Macromiidae	0	0	0	0
Macronychus glabratus	0	0	0	0
Macrostemum carolina	0	0	0	0
Mayatrichia	0	0	0	0
Mayatrichia ayama	0	0	0	0
Meropelopia	0	0	0	0
Mesosmittia	0	0	0	0
Metrobates	0	0	0	1
Micrasema	1	0	0	0
Micrasema rusticum	0	0	0	0
Micrasema wataga	0	0	0	0
Microcylloepus	0	0	0	0
Microcylloepus pusillus	0	12	11	9
Micromenetus	0	0	0	0
Micromenetus dilatatus	0	0	0	0
Microtendipes pedellus	2	1	0	0
Microtendipes pedellus grp.	0	0	0	0
Microtendipes rydalensis	0	0	0	0
Microtendipes rydalensis grp.	0	0	0	0
Mideopsis	0	0	0	0
Molanna	0	0	0	0
Mooreobdella	0	0	0	0
Mooreobdella tetragon	0	0	0	0
Muscidae	0	0	0	0
Naididae	0	0	0	0
Nais behningi	0	0	0	0
Nais communis	18	0	0	0
Nais communis complex	0	0	0	0
Nais pardalis	0	0	0	0
Nais simplex	0	0	0	0
Nais variabilis	0	0	0	0
Nanocladius	0	0	0	0
Nectopsyche	0	0	0	0
Nectopsyche candida	0	0	0	0
Nectopsyche exquisita	0	0	4	1
Nectopsyche pavida	0	0	12	0
Nemertea	0	0	0	0
Neoperla	0	0	0	0
Neoperla clymene	0	0	0	0
Neoporus	0	0	0	0
Neotrichia	0	0	0	0
Neumania	0	0	0	0

As Calculated / STORET station ->	22030062	19010042	28020221	25020111
Sample date ->	3/21/1994	11/1/1994	7/27/1994	10/24/1994
	SampleID	SampleID	SampleID	SampleID
	3105/BenthID	3682/BenthID	3797/BenthID	3952/BenthID
Taxon Name / SampleID/BenID ->	3980(#counted)	4628(#counted)	4802(#counted)	5024(#counted)
Neumania distincta	0	0	1	0
Neureclipsis	0	0	0	0
Neureclipsis crepuscularis	0	0	0	0
Neurocordulia	0	0	0	0
Neurocordulia alabamensis	0	0	0	1
Neurocordulia virginiensis	0	0	0	0
Nigronia	0	0	0	0
Nigronia fasciatus	0	0	0	0
Nigronia serricornis	0	0	0	0
Nilotanypus	0	0	0	0
Nilothauma	0	0	0	0
Notogillia wetherbyi	0	0	0	0
Nyctiophylax	0	0	0	0
Odonata	0	0	0	0
Odontomyia	0	0	0	0
Oecetis	0	0	0	1
Oecetis cinerascens	1	10	0	0
Oecetis georgia	0	0	0	0
Oecetis inconspicua cmplx.	0	0	0	0
Oecetis morsei or sphyra	0	0	0	0
Oecetis parva	0	0	0	0
Oecetis persimilis	0	0	0	0
Oecetis sp. a floyd	0	0	0	0
Oecetis sp. e floyd	0	0	0	0
Ora/scirtes	0	0	0	0
Oribatei	0	0	0	0
Orthocladiinae	0	0	0	0
Orthocladiinae gen. c epler	0	0	0	0
Orthocladiinae gen. f epler	0	1	0	0
Orthocladius annectens	0	0	0	0
Orthotrichia	0	0	0	0
Oxyethira	1	0	3	0
Pachydiplax longipennis	0	0	0	0
Pagastiella	0	0	0	0
Palaemonetes	0	0	0	0
Palaemonetes kadiakensis	0	0	0	0
Palaemonetes paludosus	0	0	0	5
Palpomyia/bezzia grp.	0	3	0	0
Paracladopelma	0	0	0	0
Paracladopelma loganae	0	0	0	0
Paracladopelma undine	0	0	0	0
Paragnetina	0	0	0	0
Paragnetina fumosa	0	0	0	0

As Calculated / STORET station ->	22030062	19010042	28020221	25020111
Sample date ->	3/21/1994	11/1/1994	7/27/1994	10/24/1994
	SampleID	SampleID	SampleID	SampleID
	3105/BenthID	3682/BenthID	3797/BenthID	3952/BenthID
Taxon Name / SampleID/BenID ->	3980(#counted)	4628(#counted)	4802(#counted)	5024(#counted)
Parakiefferiella	0	0	0	0
Paralauterborniella nigrohalterale	0	0	0	0
Paraleptophlebia volitans	0	0	0	0
Parametriocnemus	0	1	0	0
Parametriocnemus sp. f epler	0	0	0	0
Paranyctiophylax	0	0	0	0
Paraplea	0	0	0	0
Paraponyx	0	0	0	0
Paratanytarsus sp. a epler	2	0	0	0
Paratanytarsus sp. c epler	0	0	0	0
Paratendipes subaequalis	0	0	0	0
Pelecypoda	0	0	0	0
Pelonomus obscurus	0	0	0	0
Peltodytes	0	0	0	0
Pentaneura inconspicua	0	0	0	0
Perlesta	0	0	0	0
Perlesta placida	0	0	0	0
Perlesta placida complex	0	0	0	0
Perlinella	0	0	0	0
Petrophila	0	0	0	0
Phaenopsectra obediens grp.	0	1	0	0
Phaenopsectra punctipes grp.	1	0	0	0
Phylocentropus	0	4	0	0
Physella	0	0	0	0
Physella cubensis	0	0	0	1
Piona	0	0	0	0
Pisidiidae	1	0	0	0
Pisidium	0	0	6	0
Planariidae	0	0	0	0
Planorbella duryi	0	0	1	0
Planorbella scalaris	0	0	0	0
Planorbidae	0	0	0	0
Platyhelminthes	0	0	0	0
Plecoptera	0	0	0	0
Plumulariidae	0	0	0	0
Polycentropodidae	0	0	0	0
Polycentropus	0	0	0	5
Polypedilum	0	0	0	0
Polypedilum aviceps	0	0	0	0
Polypedilum convictum grp.	0	0	3	32
Polypedilum fallax	0	0	0	0
Polypedilum flavum	0	0	0	0

As Calculated / STORET station ->	22030062	19010042	28020221	25020111
Sample date ->	3/21/1994	11/1/1994	7/27/1994	10/24/1994
	SampleID	SampleID	SampleID	SampleID
	3105/BenthID	3682/BenthID	3797/BenthID	3952/BenthID
Taxon Name / SampleID/BenID ->	3980(#counted)	4628(#counted)	4802(#counted)	5024(#counted)
Polypedilum halterale grp.	0	0	0	3
Polypedilum illinoense	24	2	0	0
Polypedilum illinoense grp.	0	0	0	0
Polypedilum scalaenum	0	0	0	0
Polypedilum scalaenum grp.	0	0	0	0
Polypedilum sp. a epler	0	0	0	0
Polypedilum tritum	0	1	0	0
Pomacea paludosa	4	0	0	0
Pristina aequiseta	0	0	0	0
Pristina synclites	0	0	0	0
Pristinella jenkinae	0	0	0	0
Probezzia	0	0	0	0
Procambarus	2	0	1	0
Procladius	0	0	0	0
Procladius (holotanypus)	0	0	0	0
Procloeon viridocularis	0	0	4	0
Progomphus	0	0	0	0
Progomphus obscurus	0	0	0	0
Promoresia tardella	0	0	0	0
Prostoma rubrum	0	0	0	0
Psammoryctides convolutus	0	0	0	0
Pseudochironomus	0	0	0	0
Pseudocloeon	0	0	0	0
Psychodidae	0	0	0	0
Pycnopsyche	0	0	0	0
Pyralidae	0	0	1	0
Pyrgophorus platyrachis	0	0	0	0
Ranatra kirkaldyi	0	0	0	0
Rhagovelia	0	0	0	0
Rheocricotopus	0	0	0	0
Rheocricotopus robacki	3	0	0	0
Rheocricotopus tuberculatus	0	0	0	0
Rheotanytarsus	0	0	0	1
Rheotanytarsus distinctissimus grp.	18	0	0	0
Rheotanytarsus exiguus	0	0	0	0
Rheotanytarsus exiguus grp.	0	8	0	0
Rheotanytarsus pellucidus	0	0	0	0
Scirtes	1	0	0	0
Scirtidae	0	0	0	0
Serratella deficiens	0	0	0	0
Sialis	0	1	0	0
Silvius	0	0	0	0

As Calculated / STORET station ->	22030062	19010042	28020221	25020111
Sample date ->	3/21/1994	11/1/1994	7/27/1994	10/24/1994
	SampleID	SampleID	SampleID	SampleID
	3105/BenthID	3682/BenthID	3797/BenthID	3952/BenthID
Taxon Name / SampleID/BenID ->	3980(#counted)	4628(#counted)	4802(#counted)	5024(#counted)
Simuliidae	1	0	0	0
Simulium	0	4	1	0
Slavina appendiculata	0	0	0	0
Somatogyrus walkerianus	0	0	0	0
Sperchon	0	0	0	0
Sperchonopsis	0	0	0	0
Sperchopsis	0	0	0	0
Sphaeriidae	0	0	0	0
Sphaeriidae(mollusca)	0	0	0	0
Sphaeroma	0	0	0	0
Sphaeromias	0	0	0	0
Spirosperma	0	0	0	0
Spirosperma ferox	0	0	0	0
Stelechomyia perpulchra	0	0	0	0
Stempellina	0	0	0	0
Stempellina sp. a epler	0	0	0	0
Stempellinella	1	0	0	0
Stenacron	0	0	0	0
Stenacron floridense	1	0	0	0
Stenacron interpunctatum	0	0	0	0
Stenelmis	3	0	0	0
Stenelmis decorata	0	0	0	0
Stenelmis hungerfordi	0	0	8	0
Stenochironomus	0	1	0	0
Stenonema	0	0	0	0
Stenonema exiguum	0	0	0	10
Stenonema smithae	0	9	0	0
Stratiomyidae	0	0	0	0
Stylaria lacustris	0	0	0	0
Synorthocladius	0	0	0	0
Tabanus	0	0	0	0
Taeniopteryx lita	0	0	0	0
Tanytarsus	0	0	0	0
Tanytarsus sp. a epler	0	0	4	0
Tanytarsus sp. c epler	7	0	8	1
Tanytarsus sp. d epler	0	0	0	0
Tanytarsus sp. e epler	0	0	1	0
Tanytarsus sp. g epler	0	0	0	0
Tanytarsus sp. l epler	2	3	0	0
Tanytarsus sp. m epler	0	0	0	0
Tanytarsus sp. o epler	0	0	0	0
Tanytarsus sp. r epler	0	0	0	0
Tanytarsus sp. s epler	1	0	0	0
Tanytarsus sp. t epler	0	0	1	0
Tanytarsus sp. u epler	0	0	0	0
Taphromysis bowmani	0	0	0	0

As Calculated / STORET station ->	22030062	19010042	28020221	25020111
Sample date ->	3/21/1994	11/1/1994	7/27/1994	10/24/1994
	SampleID	SampleID	SampleID	SampleID
	3105/BenthID	3682/BenthID	3797/BenthID	3952/BenthID
Taxon Name / SampleID/BenID ->	3980(#counted)	4628(#counted)	4802(#counted)	5024(#counted)
Thienemanniella	2	4	1	0
Thienemanniella lobapodema	0	0	0	0
Thienemanniella similis	0	0	0	0
Thienemanniella sp. a epler	0	0	0	0
Thienemannimyia grp.	0	0	0	0
Tipula	0	0	0	0
Tipulidae	0	0	0	0
Torrenticola	0	0	1	0
Triaenodes	0	1	1	0
Triaenodes ignitus	0	0	0	0
Triaenodes perna	0	0	0	0
Tribelos	0	1	0	0
Tribelos atrum	0	0	0	0
Tribelos fuscicornis	0	0	0	0
Tribelos jucundum	0	0	0	0
Tricorythodes albilineatus	0	0	0	0
Tubificidae	0	0	0	0
Turbellaria	0	0	0	0
Tvetenia	0	0	0	0
Tvetenia discoloripes grp.	0	0	0	0
Unionicola	0	0	0	0
Unniella multivirga	0	0	0	0
Veliidae	0	0	0	0
Xenochironomus xenolabis	0	0	0	1
Xestochironomus	0	0	0	0
Xylotopus par	0	0	0	0
Zygoptera	0	1	0	0

As Calculated / STORET station ->	20010454	31010050	33010065	20030265
Sample date ->	1/31/1995	2/13/1995	7/12/1995	10/2/1995
	SampleID	SampleID	SampleID	SampleID
	6810/BenthID	7183/BenthID	7224/BenthID	7776/BenthID
Taxon Name / SampleID/BenID ->	7823(#counted)	8268(#counted)	8306(#counted)	8853(#counted)
Ablabesmyia (karelia) grp.	0	0	0	0
Ablabesmyia hauberi	0	0	0	0
Ablabesmyia mallochi	0	0	0	0
Ablabesmyia rhamphe grp.	0	0	0	0
Acentrella parvula	0	0	0	0
Acerpenna pygmaea	0	0	4	0
Acroneuria	0	0	2	0
Acroneuria abnormis	0	5	0	0
Acroneuria arenosa	0	0	0	0
Acroneuria arenosa/evoluta	0	0	0	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	0	0	0	0
Alluaudomyia	1	0	0	0
Amnicola	2	0	0	4
Amnicola dalli	0	0	0	0
Amnicola dalli johnsoni	0	0	0	0
Amphipoda	0	0	0	0
Ancylidae	0	0	0	0
Ancyronyx	0	0	0	0
Ancyronyx variegatus	0	0	1	0
Anisocentropus pyraloides	0	1	5	0
Anopheles	0	0	0	0
Apsectrotanypus johnsoni	0	0	0	0
Argia	0	0	1	0
Argia fumipennis	3	0	0	0
Argia moesta	0	0	0	0
Argia sedula	0	0	0	0
Argia tibialis	0	0	0	0
Arrenurus	0	0	0	0
Arrenurus problecornis	0	0	0	0
Astacidae	1	0	0	0
Atherix	0	0	0	0
Atractides	0	0	1	0
Atrichopogon	0	0	0	0
Aulodrilus pigueti	0	0	0	1
Aulodrilus pluriseta	0	0	0	0
Baetidae	0	0	0	4
Baetis	0	0	0	0
Baetis intercalaris	0	0	0	0
Baetisca rogersi	0	0	0	0
Beardius truncatus	0	0	0	0
Belostoma	0	0	0	0
Belostomatidae	0	0	0	0
Bivalvia	0	0	0	0
Bourletiella	0	0	0	0
Boyeria vinosa	0	2	1	0
Brachycentrus	0	0	0	0
Brachycentrus chelatus	0	0	0	0
Brachycentrus numerosus	0	0	0	0

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Sample date ->	1/31/1995	2/13/1995	7/12/1995	10/2/1995
	SampleID	SampleID	SampleID	SampleID
	6810/BenthID	7183/BenthID	7224/BenthID	7776/BenthID
Taxon Name / SampleID/BenID ->	7823(#counted)	8268(#counted)	8306(#counted)	8853(#counted)
Brachycercus maculatus	0	0	0	0
Caecidotea	0	0	0	0
Caecidotea racovitzai	0	0	0	0
Caenis	0	0	0	0
Caenis diminuta	0	0	0	0
Caenis hilaris	0	0	0	0
Callibaetis floridanus	0	0	0	0
Calopteryx	0	0	1	0
Calopteryx maculata	0	0	0	0
Cambaridae	0	1	1	0
Campeloma	0	0	0	0
Campeloma limum	0	0	0	0
Cassidinidea ovalis	2	0	0	0
Cecidomyiidae	0	0	0	0
Ceratopogonidae	0	0	0	0
Cernotina	0	0	0	0
Chaoborus	0	0	0	0
Chaoborus albatus	0	0	0	0
Chauliodes	0	0	0	0
Chelifera	0	0	0	0
Cheumatopsyche	0	14	0	1
Chimarra	0	0	1	0
Chironomus	0	0	0	0
Choroterpes basalis	0	0	0	0
Choroterpes hubbelli	0	0	0	0
Cladotanytarsus	0	0	0	0
Cladotanytarsus cf. daviesi	0	0	0	0
Cladotanytarsus sp. i epler	0	0	0	0
Clathrosperchon	0	0	0	0
Climacea areolaris	0	0	0	0
Clinotanypus	2	0	0	0
Coelotanypus	0	0	0	0
Coelotanypus scapularis	0	0	0	0
Coenagrionidae	0	0	0	0
Collembola	0	0	0	0
Conchapelopia	0	3	1	0
Corbicula fluminea	0	0	0	1
Corduliidae	0	0	0	0
Corydalus	0	0	0	0
Corydalus cornuta	0	0	0	0
Corydalus cornutus	0	0	0	0
Corynoneura	0	0	0	0
Corynoneura sp. b epler	0	0	1	0
Corynoneura sp. c epler	0	0	0	0
Corynoneura taris	0	0	0	0

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Crangonyx	0	0	0	0
Cricotopus	0	0	0	0
Cricotopus bicinctus	1	0	0	0
Cricotopus bicinctus grp.	0	0	0	0
Cricotopus or orthocladius	0	0	0	0
Cryptochironomus	0	0	0	1
Cryptotendipes	0	0	0	0
Curculionidae	0	0	0	0
Cyrnellus fraternus	1	0	0	0
Demicryptochironomus	0	0	0	0
Dero digitata	0	0	0	0
Dero digitata complex	0	0	0	0
Dero lodeni	0	0	0	0
Dero pectinata	0	0	0	0
Dero trifida	0	0	0	0
Dero vaga	0	0	0	0
Dicrotendipes	0	0	0	0
Dicrotendipes modestus	0	0	0	0
Dicrotendipes neomodestus	0	0	0	0
Dicrotendipes simpsoni	0	0	0	0
Dicrotendipes sp. a epler	0	0	0	0
Dineutus	0	0	0	0
Dineutus discolor	0	1	0	0
Dineutus serrulatus	0	0	0	0
Diplectrona modesta	0	0	0	0
Dixa	0	2	0	0
Dixella	0	0	0	0
Djalmabatista pulcher	0	0	0	0
Dolichopodidae	0	0	0	0
Dromogomphus armatus	0	0	0	0
Dromogomphus spinosus	0	0	0	0
Dryopidae	0	0	0	0
Dubiraphia	0	3	0	0
Dubiraphia quadrinotata	0	0	0	0
Dubiraphia vittata	0	0	0	0
Dugesia	0	0	0	0
Dugesia tigrina	0	0	0	0
Eclipidrilus	0	0	3	3
Eclipidrilus palustris	0	0	0	0
Ectopria	0	0	0	0
Elimia	0	0	0	0
Elimia floridensis	10	0	0	0
Empididae	0	0	0	1
Enallagma	0	0	0	0

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Enallagma cardenium	7	0	0	0
Enchytraeidae	0	2	0	1
Endotribelos hesperium	1	0	0	0
Enochrus	0	0	0	0
Ephemerellidae	0	0	0	0
Ephydridae	0	0	0	0
Epitheca	0	0	0	0
Epitheca princeps regina	0	0	0	0
Eurylophella doris	0	0	0	0
Eurylophella temporalis	0	0	0	0
Ferrissia	0	0	0	0
Gammaridae	0	0	0	0
Gammarus	0	0	0	0
Gammarus tigrinus	1	0	0	0
Gastropoda	0	0	0	0
Geayia	3	0	0	0
Gerridae	0	0	0	0
Gloiobdella elongata	0	0	0	0
Goeldichironomus fluctuans	0	0	0	0
Gomphidae	0	0	0	0
Gomphus	1	0	1	0
Gomphus minutus	0	0	0	0
Gonielmis	0	0	0	0
Gonielmis dietrichi	0	0	2	0
Grandidierella bonnieroides	2	0	0	0
Gyretes iricolor	0	0	2	0
Haber speciosus	0	0	1	0
Hagenius brevistylus	0	0	1	0
Hebetancylus excentricus	0	0	0	0
Helobdella stagnalis	0	0	0	0
Helobdella triserialis	0	0	0	0
Helopelopia	0	0	0	0
Hemerodromia	0	2	1	0
Hemiptera	0	0	0	1
Heptageniidae	0	0	0	0
Hetaerina	0	0	0	0
Hetaerina titia	1	0	1	0
Heteroplectron americanum	0	0	0	0
Hexagenia	0	0	0	0
Hexagenia bilineata	0	0	0	0
Hexagenia limbata	0	0	0	0
Hexagenia munda orlando	2	0	0	0
Hexatoma	0	0	1	0
Hyalella azteca	14	0	2	0
Hydra	0	0	0	0
Hydrachna	0	0	0	0
Hydraena marginicollis	0	0	0	0
Hydraenidae	0	0	0	0

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Hydrobiidae	0	0	0	0
Hydrodroma	0	1	0	0
Hydrophilidae	0	0	0	0
Hydroporus	0	0	0	0
Hydropsyche	1	4	8	0
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	0	0	0
Hydroptila	0	0	0	0
Hydroptilidae	0	0	0	0
Hygrobates	0	0	0	0
Hygrotus	0	0	0	0
Ischnura	0	0	0	1
Ischnura hastata	0	0	0	0
Isonychia	0	0	0	0
Isoperla	0	1	0	0
Isopoda	0	0	0	0
Isotomurus	0	0	0	0
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	0	0	0
Krendowskia	0	0	0	0
Labiobaetis	0	0	0	0
Labrundinia	0	0	0	0
Labrundinia becki	0	0	0	0
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	0	0	0	0
Laevapex	0	0	0	1
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	0
Lauterborniella agrayloides	0	0	0	0
Lebertia	1	0	0	0
Lepidoptera	0	0	0	0
Leptoceridae	0	0	0	0
Leptophlebia	0	0	0	0
Leptophlebiidae	0	0	4	0
Leuctra	0	0	8	0
Libellulidae	0	0	0	0
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	16	1	1	4
Limnophila	0	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	0	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	0	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	0	0	0
Lumbriculidae	1	0	0	0
Lumbriculus variegatus	0	0	0	0

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Lype diversa	0	0	0	0
Maccaffertium	0	0	0	0
Maccaffertium smithae	0	0	0	0
Macromia	0	0	0	0
Macromia taeniolata	0	0	0	0
Macromiidae	0	0	0	0
Macronychus glabratus	0	0	0	0
Macrostemum carolina	0	0	2	0
Mayatrichia	0	0	0	0
Mayatrichia ayama	0	0	0	0
Meropelopia	0	1	0	0
Mesosmittia	0	0	0	1
Metrobates	0	0	0	0
Micrasema	0	0	0	0
Micrasema rusticum	0	0	0	0
Micrasema wataga	0	0	0	0
Microcylloepus	0	0	0	0
Microcylloepus pusillus	0	0	1	0
Micromenetus	0	0	0	0
Micromenetus dilatatus	0	0	0	0
Microtendipes pedellus	0	0	0	0
Microtendipes pedellus grp.	0	1	0	0
Microtendipes rydalensis	0	0	0	0
Microtendipes rydalensis grp.	0	0	1	0
Mideopsis	0	0	0	0
Molanna	0	0	0	0
Mooreobdella	0	0	0	0
Mooreobdella tetragon	0	0	0	0
Muscidae	0	0	0	0
Naididae	0	0	0	0
Nais behningi	0	0	0	0
Nais communis	0	0	1	0
Nais communis complex	0	0	0	0
Nais pardalis	0	0	0	0
Nais simplex	0	0	0	0
Nais variabilis	0	0	0	0
Nanocladius	0	1	0	0
Nectopsyche	0	0	0	0
Nectopsyche candida	0	0	0	0
Nectopsyche exquisita	0	0	0	0
Nectopsyche pavida	0	0	0	0
Nemertea	0	0	0	0
Neoperla	0	0	2	0
Neoperla clymene	0	0	0	0
Neoporus	0	0	0	0
Neotrichia	0	0	0	0
Neumania	0	0	0	0

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Neumania distincta	0	0	0	0
Neureclipsis	0	0	0	0
Neureclipsis crepuscularis	0	0	1	0
Neurocordulia	0	0	3	0
Neurocordulia alabamensis	0	0	0	0
Neurocordulia virginiensis	0	0	0	0
Nigronia	0	0	0	0
Nigronia fasciatus	0	0	0	0
Nigronia serricornis	0	0	0	0
Nilotanypus	0	0	0	0
Nilothauma	0	0	0	1
Notogillia wetherbyi	0	0	0	0
Nyctiophylax	0	0	0	0
Odonata	0	0	0	0
Odontomyia	0	0	0	0
Oecetis	0	2	1	0
Oecetis cinerascens	0	0	0	0
Oecetis georgia	0	0	0	0
Oecetis inconspicua cmplx.	0	0	0	0
Oecetis morsei or sphyra	0	0	0	0
Oecetis parva	0	0	0	0
Oecetis persimilis	0	0	0	0
Oecetis sp. a floyd	0	0	0	0
Oecetis sp. e floyd	0	0	0	0
Ora/scirtes	0	0	0	0
Oribatei	0	0	0	0
Orthocladiinae	0	0	0	0
Orthocladiinae gen. c epler	0	0	0	0
Orthocladiinae gen. f epler	0	0	0	0
Orthocladius annectens	0	1	0	0
Orthotrichia	0	0	0	0
Oxyethira	2	0	0	0
Pachydiplax longipennis	0	0	0	0
Pagastiella	1	0	1	0
Palaemonetes	0	0	0	0
Palaemonetes kadiakensis	0	0	0	0
Palaemonetes paludosus	4	0	0	0
Palpomyia/bezzia grp.	4	0	1	3
Paracladopelma	0	0	0	0
Paracladopelma loganae	0	0	0	0
Paracladopelma undine	0	0	0	0
Paragnetina	0	0	1	0
Paragnetina fumosa	0	1	0	0

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Parakiefferiella	1	0	0	0
Paralauterborniella nigrohalterale	0	0	0	0
Paraleptophlebia volitans	0	0	0	0
Parametriocnemus	0	0	6	4
Parametriocnemus sp. f epler	0	0	0	0
Paranyctiophylax	0	0	0	0
Paraplea	0	0	0	0
Paraponyx	0	0	0	0
Paratanytarsus sp. a epler	0	0	0	0
Paratanytarsus sp. c epler	0	0	0	0
Paratendipes subaequalis	0	0	0	0
Pelecypoda	0	0	0	0
Pelonomus obscurus	0	0	0	0
Peltodytes	0	0	0	0
Pentaneura inconspicua	0	0	0	0
Perlesta	0	0	0	0
Perlesta placida	0	8	0	0
Perlesta placida complex	0	0	0	0
Perlinella	0	0	0	0
Petrophila	0	0	0	0
Phaenopsectra obediens grp.	0	0	0	0
Phaenopsectra punctipes grp.	0	0	0	0
Phylocentropus	0	0	0	0
Physella	0	0	0	1
Physella cubensis	0	0	0	0
Piona	0	0	0	0
Pisidiidae	0	0	1	18
Pisidium	0	0	0	0
Planariidae	0	0	0	0
Planorbella duryi	0	0	0	1
Planorbella scalaris	1	0	0	0
Planorbidae	0	0	0	0
Platyhelminthes	0	0	0	0
Plecoptera	0	0	0	0
Plumulariidae	0	0	0	0
Polycentropodidae	0	0	0	0
Polycentropus	0	0	0	0
Polypedilum	0	0	0	0
Polypedilum aviceps	0	12	2	0
Polypedilum convictum grp.	0	1	0	1
Polypedilum fallax	0	0	0	0
Polypedilum flavum	0	0	0	0

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Polypedilum halterale grp.	2	0	1	0
Polypedilum illinoense	0	1	0	0
Polypedilum illinoense grp.	3	0	1	60
Polypedilum scalaenum	0	0	0	0
Polypedilum scalaenum grp.	10	0	0	6
Polypedilum sp. a epler	0	0	0	0
Polypedilum tritum	0	0	0	0
Pomacea paludosa	0	0	0	0
Pristina aequiseta	0	0	0	0
Pristina synclites	0	0	0	0
Pristinella jenkinae	0	0	0	0
Probezzia	0	0	0	0
Procambarus	0	0	0	0
Procladius	0	0	0	1
Procladius (holotanypus)	0	0	0	0
Procloeon viridocularis	0	0	0	0
Progomphus	0	0	0	0
Progomphus obscurus	0	0	0	0
Promoresia tardella	0	0	0	0
Prostoma rubrum	0	0	0	1
Psammoryctides convolutus	0	0	0	0
Pseudochironomus	0	0	0	0
Pseudocloeon	0	0	0	0
Psychodidae	0	0	0	0
Pycnopsyche	0	0	0	0
Pyralidae	0	0	0	0
Pyrgophorus platyrachis	0	0	0	0
Ranatra kirkaldyi	0	0	0	0
Rhagovelia	0	0	0	0
Rheocricotopus	0	0	0	0
Rheocricotopus robacki	0	1	2	1
Rheocricotopus tuberculatus	0	0	0	0
Rheotanytarsus	1	0	0	0
Rheotanytarsus distinctissimus grp.	0	6	0	0
Rheotanytarsus exiguus	0	0	0	0
Rheotanytarsus exiguus grp.	0	21	4	0
Rheotanytarsus pellucidus	0	0	0	0
Scirtes	0	0	0	1
Scirtidae	0	0	0	0
Serratella deficiens	0	0	0	0
Sialis	0	0	0	0
Silvius	0	0	0	0

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Simuliidae	0	0	0	0
Simulium	1	2	1	0
Slavina appendiculata	0	0	0	0
Somatogyrus walkerianus	0	0	0	0
Sperchon	0	0	0	0
Sperchonopsis	0	0	0	0
Sperchopsis	0	0	0	0
Sphaeriidae	0	0	0	0
Sphaeriidae(mollusca)	0	0	0	0
Sphaeroma	0	0	0	0
Sphaeromias	0	0	0	0
Spirosperma	0	0	0	0
Spirosperma ferox	0	0	0	5
Stelechomyia perpulchra	0	1	0	0
Stempellina	0	1	0	0
Stempellina sp. a epler	0	0	0	0
Stempellinella	0	0	1	0
Stenacron	0	0	0	0
Stenacron floridense	0	0	0	0
Stenacron interpunctatum	0	0	0	0
Stenelmis	0	1	14	1
Stenelmis decorata	0	0	0	0
Stenelmis hungerfordi	0	0	0	0
Stenochironomus	0	0	5	4
Stenonema	0	0	0	0
Stenonema exiguum	0	0	0	5
Stenonema smithae	0	0	1	0
Stratiomyidae	0	0	0	0
Stylaria lacustris	0	0	0	0
Synorthocladius	0	0	0	0
Tabanus	0	0	0	1
Taeniopteryx lita	0	0	0	0
Tanytarsus	0	0	0	0
Tanytarsus sp. a epler	0	0	0	0
Tanytarsus sp. c epler	2	0	0	0
Tanytarsus sp. d epler	0	0	0	0
Tanytarsus sp. e epler	0	0	0	0
Tanytarsus sp. g epler	1	0	0	0
Tanytarsus sp. l epler	0	0	0	0
Tanytarsus sp. m epler	0	0	1	0
Tanytarsus sp. o epler	0	0	0	0
Tanytarsus sp. r epler	0	0	0	0
Tanytarsus sp. s epler	0	0	0	0
Tanytarsus sp. t epler	0	0	0	0
Tanytarsus sp. u epler	0	0	0	0
Taphromysis bowmani	0	0	0	0

As Calculated / STORET station ->	20010454	31010050	33010065	20030265
Sample date ->	1/31/1995	2/13/1995	7/12/1995	10/2/1995
	SampleID	SampleID	SampleID	SampleID
	6810/BenthID	7183/BenthID	7224/BenthID	7776/BenthID
Taxon Name / SampleID/BenID ->	7823(#counted)	8268(#counted)	8306(#counted)	8853(#counted)
Thienemanniella	1	0	0	1
Thienemanniella lobapodema	0	0	0	0
Thienemanniella similis	0	0	0	0
Thienemanniella sp. a epler	0	0	0	0
Thienemannimyia grp.	0	0	0	0
Tipula	0	0	0	0
Tipulidae	0	0	0	1
Torrenticola	0	0	0	0
Triaenodes	0	0	0	0
Triaenodes ignitus	0	0	0	0
Triaenodes perna	0	0	0	0
Tribelos	0	0	0	0
Tribelos atrum	0	0	0	0
Tribelos fuscicornis	0	0	1	4
Tribelos jucundum	0	0	0	0
Tricorythodes albilineatus	2	0	0	0
Tubificidae	0	0	0	0
Turbellaria	0	0	0	0
Tvetenia	0	0	0	0
Tvetenia discoloripes grp.	0	1	0	0
Unionicola	0	0	0	0
Unniella multivirga	0	0	0	0
Veliidae	0	0	0	0
Xenochironomus xenolabis	0	0	0	0
Xestochironomus	0	0	0	0
Xylotopus par	0	2	0	0
Zygoptera	0	0	1	0

As Calculated / STORET station ->	20030341	20030342	33010065	21030064
Sample date ->	10/2/1995	10/2/1995	2/14/1996	2/6/1996
	SampleID	SampleID	SampleID	SampleID
	7778/BenthID	7779/BenthID	9179/BenthID	9196/BenthID
Taxon Name / SampleID/BenID ->	8855(#counted)	8856(#counted)	10164(#counted)	10181(#counted)
Ablabesmyia (karelia) grp.	0	0	0	1
Ablabesmyia hauberi	0	0	0	0
Ablabesmyia mallochi	2	4	9	0
Ablabesmyia rhamphe grp.	0	4	4	1
Acentrella parvula	0	0	0	0
Acerpenna pygmaea	4	0	0	0
Acroneuria	0	0	0	0
Acroneuria abnormis	0	0	0	0
Acroneuria arenosa	0	0	1	0
Acroneuria arenosa/evoluta	0	0	0	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	0	0	0	0
Alluaudomyia	0	0	0	0
Amnicola	0	0	0	0
Amnicola dalli	0	0	0	0
Amnicola dalli johnsoni	12	0	0	0
Amphipoda	0	0	0	0
Ancylidae	0	3	0	4
Ancyronyx	0	0	0	0
Ancyronyx variegatus	0	0	2	0
Anisocentropus pyraloides	0	0	0	0
Anopheles	0	0	0	0
Apsectrotanypus johnsoni	0	0	0	0
Argia	1	0	0	3
Argia fumipennis	0	0	0	0
Argia moesta	0	0	1	0
Argia sedula	0	0	0	0
Argia tibialis	0	0	0	0
Arrenurus	0	0	0	0
Arrenurus problecornis	0	0	0	0
Astacidae	0	0	0	0
Atherix	0	0	0	0
Atractides	0	0	0	0
Atrichopogon	0	0	0	0
Aulodrilus pigueti	0	0	0	0
Aulodrilus pluriseta	0	0	0	0
Baetidae	0	0	0	0
Baetis	0	0	0	0
Baetis intercalaris	0	0	0	0
Baetisca rogersi	0	0	0	0
Beardius truncatus	0	0	0	0
Belostoma	0	0	0	0
Belostomatidae	0	0	0	0
Bivalvia	0	0	0	0
Bourletiella	0	0	0	0
Boyeria vinosa	0	0	1	0
Brachycentrus	0	0	0	0
Brachycentrus chelatus	0	0	0	0
Brachycentrus numerosus	0	0	0	0

As Calculated / STORET station ->	20030341	20030342	33010065	21030064
Sample date ->	10/2/1995	10/2/1995	2/14/1996	2/6/1996
	SampleID	SampleID	SampleID	SampleID
	7778/BenthID	7779/BenthID	9179/BenthID	9196/BenthID
Taxon Name / SampleID/BenID ->	8855(#counted)	8856(#counted)	10164(#counted)	10181(#counted)
Brachycercus maculatus	0	0	0	0
Caecidotea	0	0	1	0
Caecidotea racovitzai	0	0	0	0
Caenis	1	0	0	2
Caenis diminuta	0	0	0	0
Caenis hilaris	0	0	0	0
Callibaetis floridanus	0	0	0	0
Calopteryx	1	0	0	0
Calopteryx maculata	0	0	0	0
Cambaridae	0	0	1	0
Campeloma	0	0	0	0
Campeloma limum	0	0	0	0
Cassidinidea ovalis	0	0	0	0
Cecidomyiidae	0	0	0	0
Ceratopogonidae	0	0	0	0
Cernotina	0	0	0	0
Chaoborus	0	0	0	0
Chaoborus albatus	0	0	0	0
Chauliodes	0	0	0	0
Chelifera	0	0	0	0
Cheumatopsyche	3	8	0	0
Chimarra	0	0	0	0
Chironomus	0	0	0	0
Choroterpes basalis	0	0	0	0
Choroterpes hubbelli	0	0	0	0
Cladotanytarsus	0	0	0	0
Cladotanytarsus cf. daviesi	0	0	0	0
Cladotanytarsus sp. i epler	0	0	0	0
Clathrosperchon	0	0	0	0
Climacea areolaris	0	0	0	0
Clinotanypus	0	0	0	1
Coelotanypus	0	0	0	0
Coelotanypus scapularis	0	0	0	0
Coenagrionidae	0	0	0	0
Collembola	0	0	0	0
Conchapelopia	2	0	6	0
Corbicula fluminea	0	0	0	0
Corduliidae	0	0	0	0
Corydalus	0	0	0	0
Corydalus cornuta	0	0	0	0
Corydalus cornutus	0	0	0	0
Corynoneura	0	0	0	0
Corynoneura sp. b epler	0	0	0	0
Corynoneura sp. c epler	0	0	0	0
Corynoneura taris	0	0	0	0

As Calculated / STORET station ->	20030341	20030342	33010065	21030064
Sample date ->	10/2/1995	10/2/1995	2/14/1996	2/6/1996
	SampleID	SampleID	SampleID	SampleID
	7778/BenthID	7779/BenthID	9179/BenthID	9196/BenthID
Taxon Name / SampleID/BenID ->	8855(#counted)	8856(#counted)	10164(#counted)	10181(#counted)
Crangonyx	0	0	0	0
Cricotopus	0	0	0	0
Cricotopus bicinctus	0	0	0	0
Cricotopus bicinctus grp.	0	0	0	0
Cricotopus or orthocladius	0	0	0	3
Cryptochironomus	0	0	0	0
Cryptotendipes	2	0	0	0
Curculionidae	0	0	0	0
Cyrnellus fraternus	0	0	0	0
Demicryptochironomus	0	0	0	0
Dero digitata	0	0	0	0
Dero digitata complex	0	0	0	0
Dero lodeni	0	0	0	0
Dero pectinata	0	0	0	0
Dero trifida	0	0	0	0
Dero vaga	0	0	0	0
Dicrotendipes	0	0	0	0
Dicrotendipes modestus	0	0	0	0
Dicrotendipes neomodestus	0	0	0	0
Dicrotendipes simpsoni	0	0	0	0
Dicrotendipes sp. a epler	0	0	0	0
Dineutus	0	0	0	0
Dineutus discolor	0	0	0	0
Dineutus serrulatus	0	0	0	0
Diplectrona modesta	0	0	0	0
Dixa	0	0	0	0
Dixella	0	0	0	0
Djalmabatista pulcher	0	0	0	0
Dolichopodidae	0	0	0	0
Dromogomphus armatus	0	0	0	0
Dromogomphus spinosus	0	0	0	0
Dryopidae	0	0	0	0
Dubiraphia	1	2	0	0
Dubiraphia quadrinotata	0	0	0	0
Dubiraphia vittata	0	0	0	0
Dugesia	0	0	0	0
Dugesia tigrina	0	0	0	0
Eclipidrilus	0	0	0	2
Eclipidrilus palustris	5	0	0	0
Ectopria	0	0	1	0
Elimia	0	0	0	0
Elimia floridensis	0	0	0	11
Empididae	0	0	0	0
Enallagma	0	0	0	0

As Calculated / STORET station ->	20030341	20030342	33010065	21030064
Sample date ->	10/2/1995	10/2/1995	2/14/1996	2/6/1996
	SampleID	SampleID	SampleID	SampleID
	7778/BenthID	7779/BenthID	9179/BenthID	9196/BenthID
Taxon Name / SampleID/BenID ->	8855(#counted)	8856(#counted)	10164(#counted)	10181(#counted)
Enallagma cardenium	0	0	0	0
Enchytraeidae	8	2	1	0
Endotribelos hesperium	0	0	0	0
Enochrus	0	0	0	0
Ephemerellidae	0	0	0	0
Ephydridae	0	0	0	0
Epitheca	0	0	0	0
Epitheca princeps regina	0	0	0	0
Eurylophella doris	0	0	0	0
Eurylophella temporalis	0	0	0	0
Ferrissia	0	0	0	0
Gammaridae	0	0	0	0
Gammarus	0	0	0	8
Gammarus tigrinus	0	0	0	0
Gastropoda	0	0	0	0
Geayia	0	0	0	0
Gerridae	0	0	0	0
Gloiobdella elongata	0	0	0	0
Goeldichironomus fluctuans	0	0	0	0
Gomphidae	0	0	0	0
Gomphus	0	0	0	0
Gomphus minutus	1	0	0	0
Gonielmis	0	0	0	0
Gonielmis dietrichi	0	0	0	0
Grandidierella bonnieroides	0	0	0	0
Gyretes iricolor	0	0	0	0
Haber speciosus	1	0	0	0
Hagenius brevistylus	0	0	0	0
Hebetancylus excentricus	0	0	0	0
Helobdella stagnalis	0	0	0	0
Helobdella triserialis	0	0	0	0
Helopelopia	0	0	0	0
Hemerodromia	0	0	1	4
Hemiptera	0	0	0	0
Heptageniidae	0	0	0	0
Hetaerina	0	0	0	0
Hetaerina titia	0	0	0	0
Heteroplectron americanum	0	0	0	0
Hexagenia	0	0	0	0
Hexagenia bilineata	0	0	0	0
Hexagenia limbata	0	0	0	0
Hexagenia munda orlando	0	0	0	0
Hexatoma	0	0	0	0
Hyalella azteca	0	0	0	17
Hydra	0	0	0	0
Hydrachna	0	0	1	0
Hydraena marginicollis	0	0	0	0
Hydraenidae	0	0	0	0

As Calculated / STORET station ->	20030341	20030342	33010065	21030064
Sample date ->	10/2/1995	10/2/1995	2/14/1996	2/6/1996
	SampleID	SampleID	SampleID	SampleID
	7778/BenthID	7779/BenthID	9179/BenthID	9196/BenthID
Taxon Name / SampleID/BenID ->	8855(#counted)	8856(#counted)	10164(#counted)	10181(#counted)
Hydrobiidae	0	0	0	1
Hydrodroma	0	0	0	0
Hydrophilidae	0	0	0	0
Hydroporus	0	0	0	0
Hydropsyche	0	0	0	0
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	0	0	0
Hydroptila	0	0	0	0
Hydroptilidae	0	0	0	0
Hygrobates	1	0	0	0
Hygrotus	0	0	0	0
Ischnura	0	0	0	0
Ischnura hastata	0	0	0	0
Isonychia	0	0	0	0
Isoperla	0	0	0	0
Isopoda	0	0	0	2
Isotomurus	0	0	0	0
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	0	0	0
Krendowskia	0	0	0	0
Labiobaetis	0	0	0	0
Labrundinia	0	0	0	1
Labrundinia becki	0	1	0	0
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	0	0	0	0
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	0
Lauterborniella agrayloides	0	0	0	0
Lebertia	0	0	0	1
Lepidoptera	0	0	0	0
Leptoceridae	0	0	0	0
Leptophlebia	0	0	0	0
Leptophlebiidae	0	0	7	0
Leuctra	0	0	0	0
Libellulidae	0	0	0	0
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	16	2	2	0
Limnophila	0	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	1	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	0	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	2	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0			

As Calculated / STORET station ->	20030341	20030342	33010065	21030064
Sample date ->	10/2/1995	10/2/1995	2/14/1996	2/6/1996
	SampleID	SampleID	SampleID	SampleID
	7778/BenthID	7779/BenthID	9179/BenthID	9196/BenthID
Taxon Name / SampleID/BenID ->	8855(#counted)	8856(#counted)	10164(#counted)	10181(#counted)
Lype diversa	0	0	0	0
Maccaffertium	0	0	0	0
Maccaffertium smithae	0	0	0	0
Macromia	0	0	0	0
Macromia taeniolata	0	0	0	0
Macromiidae	0	0	0	0
Macronychus glabratus	0	0	0	0
Macrostemum carolina	0	2	0	0
Mayatrichia	0	0	0	0
Mayatrichia ayama	0	0	0	0
Meropelopia	0	0	2	0
Mesosmittia	0	1	0	0
Metrobates	0	0	0	0
Micrasema	0	0	0	0
Micrasema rusticum	0	0	0	0
Micrasema wataga	0	0	0	0
Microcylloepus	1	0	0	0
Microcylloepus pusillus	0	0	0	0
Micromenetus	0	2	0	0
Micromenetus dilatatus	0	0	0	0
Microtendipes pedellus	0	0	0	0
Microtendipes pedellus grp.	0	0	0	0
Microtendipes rydalensis	0	0	0	0
Microtendipes rydalensis grp.	0	0	0	0
Mideopsis	0	0	2	0
Molanna	0	0	0	0
Mooreobdella	0	0	0	0
Mooreobdella tetragon	0	0	0	0
Muscidae	0	0	0	0
Naididae	0	0	0	0
Nais behningi	0	0	0	0
Nais communis	0	0	0	0
Nais communis complex	0	0	0	0
Nais pardalis	0	0	0	0
Nais simplex	0	0	0	0
Nais variabilis	0	0	0	0
Nanocladius	0	0	0	2
Nectopsyche	0	0	0	0
Nectopsyche candida	1	0	0	0
Nectopsyche exquisita	0	0	0	0
Nectopsyche pavida	0	0	0	0
Nemertea	0	0	0	0
Neoperla	0	0	0	0
Neoperla clymene	0	0	0	0
Neoporus	0	0	0	0
Neotrichia	0	0	0	0
Neumania	0	0	0	0

As Calculated / STORET station ->	20030341	20030342	33010065	21030064
Sample date ->	10/2/1995	10/2/1995	2/14/1996	2/6/1996
	SampleID	SampleID	SampleID	SampleID
	7778/BenthID	7779/BenthID	9179/BenthID	9196/BenthID
Taxon Name / SampleID/BenID ->	8855(#counted)	8856(#counted)	10164(#counted)	10181(#counted)
Neumania distincta	0	0	0	0
Neureclipsis	0	0	0	0
Neureclipsis crepuscularis	0	0	0	0
Neurocordulia	0	0	0	0
Neurocordulia alabamensis	0	0	0	0
Neurocordulia virginiensis	0	0	0	0
Nigronia	0	0	0	0
Nigronia fasciatus	0	0	0	0
Nigronia serricornis	0	0	0	0
Nilotanypus	0	0	0	0
Nilothauma	3	0	0	0
Notogillia wetherbyi	0	0	0	0
Nyctiophylax	0	0	0	0
Odonata	0	0	0	0
Odontomyia	0	0	0	0
Oecetis	0	2	1	1
Oecetis cinerascens	0	0	0	0
Oecetis georgia	0	0	0	0
Oecetis inconspicua cmplx.	1	0	0	0
Oecetis morsei or sphyra	0	0	0	0
Oecetis parva	0	0	0	0
Oecetis persimilis	0	0	0	0
Oecetis sp. a floyd	0	0	0	0
Oecetis sp. e floyd	0	0	0	0
Ora/scirtes	0	0	0	0
Oribatei	0	0	0	0
Orthocladiinae	0	0	0	0
Orthocladiinae gen. c epler	0	0	0	0
Orthocladiinae gen. f epler	0	0	0	0
Orthocladius annectens	0	0	0	0
Orthotrichia	0	0	0	0
Oxyethira	0	0	0	0
Pachydiplax longipennis	0	0	0	0
Pagastiella	0	0	0	0
Palaemonetes	0	0	0	4
Palaemonetes kadiakensis	0	0	0	0
Palaemonetes paludosus	0	0	1	0
Palpomyia/bezzia grp.	20	1	1	2
Paracladopelma	0	0	0	0
Paracladopelma loganae	0	0	0	0
Paracladopelma undine	1	0	0	0
Paragnetina	0	0	0	0
Paragnetina fumosa	0	0	0	0

As Calculated / STORET station ->	20030341	20030342	33010065	21030064
Sample date ->	10/2/1995	10/2/1995	2/14/1996	2/6/1996
	SampleID	SampleID	SampleID	SampleID
	7778/BenthID	7779/BenthID	9179/BenthID	9196/BenthID
Taxon Name / SampleID/BenID ->	8855(#counted)	8856(#counted)	10164(#counted)	10181(#counted)
Parakiefferiella	0	0	0	0
Paralauterborniella nigrohalterale	0	0	0	0
Paraleptophlebia volitans	0	0	0	0
Parametriocnemus	5	0	2	0
Parametriocnemus sp. f epler	0	0	0	0
Paranyctiophylax	0	0	0	0
Paraplea	0	0	0	0
Paraponyx	0	0	0	0
Paratanytarsus sp. a epler	0	0	0	0
Paratanytarsus sp. c epler	0	0	0	0
Paratendipes subaequalis	2	0	0	0
Pelecypoda	0	0	3	0
Pelonomus obscurus	0	0	0	0
Peltodytes	0	0	0	0
Pentaneura inconspicua	2	1	0	0
Perlesta	0	0	0	0
Perlesta placida	0	0	0	0
Perlesta placida complex	0	0	0	0
Perlinella	0	0	0	0
Petrophila	0	0	0	0
Phaenopsectra obediens grp.	0	0	0	0
Phaenopsectra punctipes grp.	0	0	0	0
Phylocentropus	0	0	0	0
Physella	0	0	0	0
Physella cubensis	0	0	0	0
Piona	0	0	0	0
Pisidiidae	17	24	0	3
Pisidium	0	0	0	0
Planariidae	0	0	0	0
Planorbella duryi	0	0	0	2
Planorbella scalaris	0	0	0	0
Planorbidae	0	0	0	0
Platyhelminthes	0	0	0	0
Plecoptera	0	0	0	0
Plumulariidae	0	0	0	0
Polycentropodidae	0	0	0	1
Polycentropus	0	0	0	0
Polypedilum	0	0	0	0
Polypedilum aviceps	0	0	0	0
Polypedilum convictum grp.	4	3	0	0
Polypedilum fallax	0	0	0	0
Polypedilum flavum	0	0	0	0

As Calculated / STORET station ->	20030341	20030342	33010065	21030064
Sample date ->	10/2/1995	10/2/1995	2/14/1996	2/6/1996
	SampleID	SampleID	SampleID	SampleID
	7778/BenthID	7779/BenthID	9179/BenthID	9196/BenthID
Taxon Name / SampleID/BenID ->	8855(#counted)	8856(#counted)	10164(#counted)	10181(#counted)
Polypedilum halterale grp.	10	1	0	0
Polypedilum illinoense	0	0	0	0
Polypedilum illinoense grp.	4	15	4	18
Polypedilum scalaenum	0	0	0	0
Polypedilum scalaenum grp.	2	9	3	0
Polypedilum sp. a epler	0	0	0	0
Polypedilum tritum	0	0	0	0
Pomacea paludosa	0	0	0	0
Pristina aequiseta	0	0	0	0
Pristina synclites	0	0	0	0
Pristinella jenkinae	0	0	0	0
Probezzia	0	0	0	0
Procambarus	2	0	0	0
Procladius	0	0	0	0
Procladius (holotanypus)	0	0	0	0
Procloeon viridocularis	0	0	0	0
Progomphus	0	0	0	0
Progomphus obscurus	0	0	0	0
Promoresia tardella	0	0	0	0
Prostoma rubrum	0	0	0	0
Psammoryctides convolutus	0	0	0	0
Pseudochironomus	0	0	0	1
Pseudocloeon	0	0	0	0
Psychodidae	0	0	0	0
Pycnopsyche	0	0	0	0
Pyralidae	0	0	0	1
Pyrgophorus platyrachis	0	0	0	0
Ranatra kirkaldyi	0	0	0	0
Rhagovelia	0	0	0	0
Rheocricotopus	0	0	0	0
Rheocricotopus robacki	3	1	0	0
Rheocricotopus tuberculatus	0	0	0	0
Rheotanytarsus	0	0	0	0
Rheotanytarsus distinctissimus grp.	0	1	0	0
Rheotanytarsus exiguus	0	0	0	0
Rheotanytarsus exiguus grp.	1	0	1	0
Rheotanytarsus pellucidus	0	0	0	0
Scirtes	0	0	0	0
Scirtidae	0	0	0	0
Serratella deficiens	0	0	0	0
Sialis	0	0	0	0
Silvius	0	0	0	0

As Calculated / STORET station ->	20030341	20030342	33010065	21030064
Sample date ->	10/2/1995	10/2/1995	2/14/1996	2/6/1996
	SampleID	SampleID	SampleID	SampleID
	7778/BenthID	7779/BenthID	9179/BenthID	9196/BenthID
Taxon Name / SampleID/BenID ->	8855(#counted)	8856(#counted)	10164(#counted)	10181(#counted)
Simuliidae	0	0	0	0
Simulium	2	1	70	0
Slavina appendiculata	0	0	0	0
Somatogyrus walkerianus	0	0	0	0
Sperchon	0	0	0	0
Sperchonopsis	0	0	0	0
Sperchopsis	0	0	0	0
Sphaeriidae	0	0	0	0
Sphaeriidae(mollusca)	0	0	0	0
Sphaeroma	0	0	0	0
Sphaeromias	0	0	0	0
Spirosperma	0	0	0	0
Spirosperma ferox	0	0	0	0
Stelechomyia perpulchra	0	0	0	0
Stempellina	0	0	0	0
Stempellina sp. a epler	0	0	0	0
Stempellinella	0	0	1	1
Stenacron	0	0	0	0
Stenacron floridense	0	0	0	0
Stenacron interpunctatum	0	0	0	0
Stenelmis	0	3	1	0
Stenelmis decorata	0	0	0	0
Stenelmis hungerfordi	1	0	0	0
Stenochironomus	1	4	2	0
Stenonema	0	0	2	0
Stenonema exiguum	0	0	0	0
Stenonema smithae	1	0	0	0
Stratiomyidae	0	0	0	0
Stylaria lacustris	0	0	0	0
Synorthocladius	0	0	0	0
Tabanus	0	0	0	0
Taeniopteryx lita	0	0	0	0
Tanytarsus	0	0	0	0
Tanytarsus sp. a epler	0	0	0	0
Tanytarsus sp. c epler	0	0	0	1
Tanytarsus sp. d epler	0	0	0	6
Tanytarsus sp. e epler	0	0	0	0
Tanytarsus sp. g epler	0	0	0	0
Tanytarsus sp. l epler	0	0	0	1
Tanytarsus sp. m epler	1	0	6	0
Tanytarsus sp. o epler	0	0	0	0
Tanytarsus sp. r epler	0	0	0	0
Tanytarsus sp. s epler	1	0	2	0
Tanytarsus sp. t epler	0	0	0	0
Tanytarsus sp. u epler	0	0	0	0
Taphromysis bowmani	0	0	0	0

As Calculated / STORET station ->	20030341	20030342	33010065	21030064
Sample date ->	10/2/1995	10/2/1995	2/14/1996	2/6/1996
	SampleID	SampleID	SampleID	SampleID
	7778/BenthID	7779/BenthID	9179/BenthID	9196/BenthID
Taxon Name / SampleID/BenID ->	8855(#counted)	8856(#counted)	10164(#counted)	10181(#counted)
Thienemanniella	0	0	0	0
Thienemanniella lobapodema	0	0	0	0
Thienemanniella similis	0	0	0	0
Thienemanniella sp. a epler	0	0	0	0
Thienemannimyia grp.	0	0	0	0
Tipula	0	0	0	0
Tipulidae	0	0	0	0
Torrenticola	0	0	0	0
Triaenodes	0	0	0	2
Triaenodes ignitus	0	0	0	0
Triaenodes perna	0	0	0	0
Tribelos	0	0	0	0
Tribelos atrum	0	0	0	0
Tribelos fuscicornis	0	0	0	0
Tribelos jucundum	0	1	1	0
Tricorythodes albilineatus	0	0	0	0
Tubificidae	0	0	0	0
Turbellaria	0	0	0	0
Tvetenia	0	0	0	0
Tvetenia discoloripes grp.	0	0	0	0
Unionicola	0	0	0	0
Unniella multivirga	0	0	0	0
Veliidae	0	0	0	0
Xenochironomus xenolabis	0	0	0	0
Xestochironomus	0	0	0	0
Xylotopus par	0	0	2	0
Zygoptera	0	1	0	0

As Calculated / STORET station ->	20010454	20030341	20030265	20030342
Sample date ->	3/4/1996	3/5/1996	3/5/1996	3/5/1996
	SampleID	SampleID	SampleID	SampleID
	9206/BenthID	9395/BenthID	9396/BenthID	9399/BenthID
Taxon Name / SampleID/BenID ->	10191(#counted)	10288(#counted)	10289(#counted)	10292(#counted)
Ablabesmyia (karelia) grp.	0	0	0	0
Ablabesmyia hauberi	0	0	0	0
Ablabesmyia mallochi	0	2	1	1
Ablabesmyia rhamphe grp.	0	0	0	2
Acentrella parvula	0	0	0	0
Acerpenna pygmaea	0	1	19	2
Acroneuria	0	0	0	0
Acroneuria abnormis	0	0	0	0
Acroneuria arenosa	0	0	0	0
Acroneuria arenosa/evoluta	0	0	0	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	0	0	0	0
Alluaudomyia	0	0	0	0
Amnicola	0	0	4	0
Amnicola dalli	0	0	0	0
Amnicola dalli johnsoni	2	7	0	0
Amphipoda	0	0	0	0
Ancylidae	2	0	0	0
Ancyronyx	0	0	0	0
Ancyronyx variegatus	1	3	0	0
Anisocentropus pyraloides	0	0	0	0
Anopheles	0	0	0	0
Apsectrotanypus johnsoni	0	0	0	0
Argia	0	0	0	0
Argia fumipennis	0	0	0	0
Argia moesta	0	0	0	0
Argia sedula	0	0	0	0
Argia tibialis	0	0	0	0
Arrenurus	0	0	1	0
Arrenurus problecornis	0	0	0	0
Astacidae	0	0	0	0
Atherix	0	0	0	0
Atractides	1	0	0	0
Atrichopogon	0	0	0	0
Aulodrilus pigueti	0	0	0	0
Aulodrilus pluriseta	0	0	0	0
Baetidae	0	0	0	0
Baetis	7	0	0	0
Baetis intercalaris	0	0	0	0
Baetisca rogersi	0	0	0	0
Beardius truncatus	0	0	0	0
Belostoma	0	0	0	0
Belostomatidae	0	0	0	0
Bivalvia	0	0	0	0
Bourletiella	0	0	0	5
Boyeria vinosa	0	0	0	0
Brachycentrus	0	0	0	0
Brachycentrus chelatus	0	0	0	0
Brachycentrus numerosus	0	0	0	0

As Calculated / STORET station ->	20010454	20030341	20030265	20030342
Sample date ->	3/4/1996	3/5/1996	3/5/1996	3/5/1996
	SampleID	SampleID	SampleID	SampleID
	9206/BenthID	9395/BenthID	9396/BenthID	9399/BenthID
Taxon Name / SampleID/BenID ->	10191(#counted)	10288(#counted)	10289(#counted)	10292(#counted)
Brachycercus maculatus	0	0	0	0
Caecidotea	0	0	2	21
Caecidotea racovitzai	0	0	0	0
Caenis	0	1	2	1
Caenis diminuta	0	0	0	0
Caenis hilaris	0	0	0	0
Callibaetis floridanus	0	0	0	0
Calopteryx	0	0	0	0
Calopteryx maculata	0	0	0	0
Cambaridae	0	1	0	0
Campeloma	0	0	0	0
Campeloma limum	0	0	0	0
Cassidinidea ovalis	3	0	0	0
Cecidomyiidae	0	0	0	0
Ceratopogonidae	0	0	0	0
Cernotina	1	0	0	0
Chaoborus	0	0	0	0
Chaoborus albatus	0	0	0	1
Chauliodes	0	0	0	0
Chelifera	0	0	0	0
Cheumatopsyche	4	3	3	1
Chimarra	0	0	0	0
Chironomus	1	0	0	0
Choroterpes basalis	0	0	0	0
Choroterpes hubbelli	0	0	0	0
Cladotanytarsus	1	0	0	1
Cladotanytarsus cf. daviesi	0	0	0	0
Cladotanytarsus sp. i epler	0	0	0	0
Clathrosperchon	0	0	0	0
Climacea areolaris	0	0	0	0
Clinotanypus	0	0	0	0
Coelotanypus	0	0	0	0
Coelotanypus scapularis	0	0	0	0
Coenagrionidae	0	0	0	0
Collembola	1	3	0	0
Conchapelopia	0	0	0	0
Corbicula fluminea	0	0	3	0
Corduliidae	0	0	0	0
Corydalus	0	0	0	0
Corydalus cornuta	0	0	0	0
Corydalus cornutus	0	0	0	0
Corynoneura	0	0	0	2
Corynoneura sp. b epler	0	0	0	0
Corynoneura sp. c epler	0	0	0	0
Corynoneura taris	0	0	3	0

As Calculated / STORET station ->	20010454	20030341	20030265	20030342
Sample date ->	3/4/1996	3/5/1996	3/5/1996	3/5/1996
	SampleID 9206/BenthID	SampleID 9395/BenthID	SampleID 9396/BenthID	SampleID 9399/BenthID
Taxon Name / SampleID/BenID ->	10191(#counted)	10288(#counted)	10289(#counted)	10292(#counted)
Crangonyx	0	0	0	0
Cricotopus	0	0	0	0
Cricotopus bicinctus	0	0	0	1
Cricotopus bicinctus grp.	0	0	0	0
Cricotopus or orthocladius	1	0	0	0
Cryptochironomus	0	0	0	0
Cryptotendipes	0	0	0	0
Curculionidae	0	1	0	0
Cyrnellus fraternus	0	0	0	0
Demicryptochironomus	0	0	0	0
Dero digitata	0	0	0	0
Dero digitata complex	0	0	0	0
Dero lodeni	0	0	0	0
Dero pectinata	0	0	0	0
Dero trifida	0	0	0	0
Dero vaga	0	0	0	0
Dicrotendipes	0	0	0	0
Dicrotendipes modestus	0	0	0	0
Dicrotendipes neomodestus	0	0	0	0
Dicrotendipes simpsoni	0	0	0	0
Dicrotendipes sp. a epler	0	0	0	0
Dineutus	1	0	0	0
Dineutus discolor	0	0	0	0
Dineutus serrulatus	0	0	0	0
Diplectrona modesta	0	0	0	0
Dixa	0	0	0	0
Dixella	0	0	0	0
Djalmabatista pulcher	0	0	0	0
Dolichopodidae	0	0	0	0
Dromogomphus armatus	0	0	0	0
Dromogomphus spinosus	0	1	1	0
Dryopidae	0	0	0	0
Dubiraphia	0	0	2	1
Dubiraphia quadrinotata	0	0	0	0
Dubiraphia vittata	0	0	0	0
Dugesia	0	0	0	0
Dugesia tigrina	1	0	0	0
Eclipidrilus	0	2	0	0
Eclipidrilus palustris	0	0	3	7
Ectopria	0	0	0	0
Elimia	0	0	0	0
Elimia floridensis	5	0	0	0
Empididae	0	0	0	0
Enallagma	0	0	0	0

As Calculated / STORET station ->	20010454	20030341	20030265	20030342
Sample date ->	3/4/1996	3/5/1996	3/5/1996	3/5/1996
	SampleID	SampleID	SampleID	SampleID
	9206/BenthID	9395/BenthID	9396/BenthID	9399/BenthID
Taxon Name / SampleID/BenID ->	10191(#counted)	10288(#counted)	10289(#counted)	10292(#counted)
Enallagma cardenium	0	0	0	0
Enchytraeidae	0	0	0	4
Endotribelos hesperium	0	0	0	0
Enochrus	0	0	0	0
Ephemerellidae	0	0	0	0
Ephydridae	0	0	0	0
Epitheca	0	0	0	0
Epitheca princeps regina	0	0	0	0
Eurylophella doris	0	0	0	0
Eurylophella temporalis	0	4	0	0
Ferrissia	0	0	0	0
Gammaridae	0	0	0	0
Gammarus	16	0	2	2
Gammarus tigrinus	0	0	0	0
Gastropoda	0	0	0	0
Geayia	0	0	0	0
Gerridae	0	0	0	0
Gloiobdella elongata	0	0	1	0
Goeldichironomus fluctuans	0	0	0	0
Gomphidae	1	0	0	0
Gomphus	0	0	0	0
Gomphus minutus	0	0	0	0
Gonielmis	0	0	0	0
Gonielmis dietrichi	0	0	0	0
Grandidierella bonnieroides	3	0	0	0
Gyretes iricolor	0	0	0	0
Haber speciosus	0	0	0	0
Hagenius brevistylus	0	0	0	0
Hebetancylus excentricus	0	0	0	0
Helobdella stagnalis	0	0	0	0
Helobdella triserialis	0	0	0	0
Helopelopia	0	0	0	0
Hemerodromia	3	1	1	2
Hemiptera	0	0	0	0
Heptageniidae	0	0	0	0
Hetaerina	0	0	0	0
Hetaerina titia	1	0	0	0
Heteroplectron americanum	0	0	0	0
Hexagenia	0	0	0	0
Hexagenia bilineata	0	0	0	0
Hexagenia limbata	0	0	0	0
Hexagenia munda orlando	0	0	0	0
Hexatoma	0	0	0	0
Hyalella azteca	13	0	0	10
Hydra	0	0	0	0
Hydrachna	0	0	0	0
Hydraena marginicollis	0	0	0	0
Hydraenidae	0	0	0	0

As Calculated / STORET station ->	20010454	20030341	20030265	20030342
Sample date ->	3/4/1996	3/5/1996	3/5/1996	3/5/1996
	SampleID	SampleID	SampleID	SampleID
	9206/BenthID	9395/BenthID	9396/BenthID	9399/BenthID
Taxon Name / SampleID/BenID ->	10191(#counted)	10288(#counted)	10289(#counted)	10292(#counted)
Hydrobiidae	0	0	0	0
Hydrodroma	0	0	0	0
Hydrophilidae	0	0	0	0
Hydroporus	0	0	0	0
Hydropsyche	7	0	0	1
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	0	0	0
Hydroptila	18	0	0	0
Hydroptilidae	0	0	0	0
Hygrobates	0	0	0	0
Hygrotus	0	0	0	0
Ischnura	0	0	0	0
Ischnura hastata	0	0	0	0
Isonychia	0	0	0	0
Isoperla	0	0	0	0
Isopoda	0	0	0	0
Isotomurus	0	0	0	1
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	0	0	0
Krendowskia	0	0	0	0
Labiobaetis	0	0	0	0
Labrundinia	0	1	0	0
Labrundinia becki	0	0	0	0
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	0	0	0	3
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	6	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	0
Lauterborniella agrayloides	0	0	0	0
Lebertia	5	0	0	1
Lepidoptera	0	0	0	0
Leptoceridae	0	0	0	0
Leptophlebia	0	0	0	0
Leptophlebiidae	0	0	0	0
Leuctra	0	0	0	0
Libellulidae	0	0	0	0
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	3	0	2	1
Limnophila	0	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	0	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	0	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	0	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0	0	0	0

As Calculated / STORET station ->	20010454	20030341	20030265	20030342
Sample date ->	3/4/1996	3/5/1996	3/5/1996	3/5/1996
	SampleID 9206/BenthID	SampleID 9395/BenthID	SampleID 9396/BenthID	SampleID 9399/BenthID
Taxon Name / SampleID/BenID ->	10191(#counted)	10288(#counted)	10289(#counted)	10292(#counted)
Lype diversa	0	0	0	0
Maccaffertium	0	0	0	0
Maccaffertium smithae	0	0	0	0
Macromia	0	0	0	0
Macromia taeniolata	0	0	0	1
Macromiidae	0	0	0	0
Macronychus glabratus	0	0	0	0
Macrostemum carolina	0	0	0	0
Mayatrichia	0	0	0	0
Mayatrichia ayama	0	0	0	0
Meropelopia	0	0	0	0
Mesosmittia	0	0	0	0
Metrobates	0	0	0	0
Micrasema	0	0	0	0
Micrasema rusticum	0	0	0	0
Micrasema wataga	0	0	0	0
Microcylloepus	0	0	0	7
Microcylloepus pusillus	4	8	2	0
Micromenetus	0	0	1	4
Micromenetus dilatatus	0	0	0	0
Microtendipes pedellus	0	0	0	0
Microtendipes pedellus grp.	0	0	0	0
Microtendipes rydalensis	0	0	0	0
Microtendipes rydalensis grp.	0	0	0	0
Mideopsis	0	0	0	0
Molanna	0	0	0	0
Mooreobdella	0	0	0	1
Mooreobdella tetragon	0	0	0	0
Muscidae	0	1	0	0
Naididae	0	0	0	0
Nais behningi	0	0	0	0
Nais communis	1	0	0	0
Nais communis complex	0	0	0	0
Nais pardalis	0	0	0	0
Nais simplex	0	0	0	0
Nais variabilis	0	0	0	0
Nanocladius	0	0	0	0
Nectopsyche	1	0	1	0
Nectopsyche candida	0	0	0	0
Nectopsyche exquisita	0	0	0	0
Nectopsyche pavida	0	0	0	0
Nemertea	0	0	0	0
Neoperla	0	0	0	0
Neoperla clymene	0	0	0	0
Neoporus	0	0	0	0
Neotrichia	1	0	0	0
Neumania	0	0	0	0

As Calculated / STORET station ->	20010454	20030341	20030265	20030342
Sample date ->	3/4/1996	3/5/1996	3/5/1996	3/5/1996
	SampleID 9206/BenthID	SampleID 9395/BenthID	SampleID 9396/BenthID	SampleID 9399/BenthID
Taxon Name / SampleID/BenID ->	10191(#counted)	10288(#counted)	10289(#counted)	10292(#counted)
Neumania distincta	0	0	0	0
Neureclipsis	0	0	0	0
Neureclipsis crepuscularis	0	0	0	0
Neurocordulia	0	0	0	0
Neurocordulia alabamensis	0	0	0	0
Neurocordulia virginiensis	0	0	0	0
Nigronia	0	0	0	0
Nigronia fasciatus	0	0	0	0
Nigronia serricornis	0	0	0	0
Nilotanypus	0	0	0	0
Nilothauma	0	0	0	0
Notogillia wetherbyi	0	0	0	0
Nyctiophylax	0	0	0	0
Odonata	0	0	0	0
Odontomyia	0	0	0	0
Oecetis	1	0	0	0
Oecetis cinerascens	0	0	0	0
Oecetis georgia	0	1	0	0
Oecetis inconspicua cmplx.	0	0	0	0
Oecetis morsei or sphyra	0	0	0	0
Oecetis parva	0	0	0	0
Oecetis persimilis	0	0	0	0
Oecetis sp. a floyd	0	0	0	0
Oecetis sp. e floyd	0	0	0	0
Ora/scirtes	0	0	0	0
Oribatei	0	1	0	3
Orthocladiinae	0	0	0	0
Orthocladiinae gen. c epler	0	0	0	1
Orthocladiinae gen. f epler	0	0	0	0
Orthocladius annectens	0	0	0	0
Orthotrichia	0	0	0	0
Oxyethira	0	0	1	0
Pachydiplax longipennis	0	0	0	0
Pagastiella	0	0	0	0
Palaemonetes	0	0	0	0
Palaemonetes kadiakensis	0	0	0	0
Palaemonetes paludosus	1	2	0	1
Palpomyia/bezzia grp.	0	8	0	0
Paracladopelma	0	0	0	0
Paracladopelma loganae	0	0	0	1
Paracladopelma undine	0	0	0	0
Paragnetina	0	0	0	0
Paragnetina fumosa	0	0	0	0

As Calculated / STORET station ->	20010454	20030341	20030265	20030342
Sample date ->	3/4/1996	3/5/1996	3/5/1996	3/5/1996
	SampleID	SampleID	SampleID	SampleID
	9206/BenthID	9395/BenthID	9396/BenthID	9399/BenthID
Taxon Name / SampleID/BenID ->	10191(#counted)	10288(#counted)	10289(#counted)	10292(#counted)
Parakiefferiella	0	0	0	0
Paralauterborniella nigrohalterale	0	0	0	1
Paraleptophlebia volitans	0	11	0	0
Parametriocnemus	0	0	0	1
Parametriocnemus sp. f epler	0	0	0	0
Paranyctiophylax	0	0	0	0
Paraplea	0	0	0	0
Paraponyx	0	0	0	0
Paratanytarsus sp. a epler	0	0	0	0
Paratanytarsus sp. c epler	0	0	0	0
Paratendipes subaequalis	0	0	0	0
Pelecypoda	0	13	0	0
Pelonomus obscurus	0	0	0	0
Peltodytes	0	0	0	0
Pentaneura inconspicua	0	0	0	0
Perlesta	0	0	0	0
Perlesta placida	0	0	0	0
Perlesta placida complex	0	0	0	0
Perlinella	0	0	0	0
Petrophila	0	0	0	0
Phaenopsectra obediens grp.	0	0	0	0
Phaenopsectra punctipes grp.	0	0	0	0
Phylocentropus	0	0	0	0
Physella	0	0	0	0
Physella cubensis	0	0	0	0
Piona	0	0	0	0
Pisidiidae	0	0	39	28
Pisidium	0	0	0	0
Planariidae	0	0	0	0
Planorbella duryi	0	0	0	0
Planorbella scalaris	0	0	0	0
Planorbidae	0	0	0	0
Platyhelminthes	0	0	0	0
Plecoptera	0	0	0	0
Plumulariidae	0	0	0	0
Polycentropodidae	0	0	0	0
Polycentropus	0	0	0	0
Polypedilum	0	0	0	0
Polypedilum aviceps	0	0	0	0
Polypedilum convictum grp.	10	1	1	2
Polypedilum fallax	0	0	0	0
Polypedilum flavum	0	0	0	0

As Calculated / STORET station ->	20010454	20030341	20030265	20030342
Sample date ->	3/4/1996	3/5/1996	3/5/1996	3/5/1996
	SampleID 9206/BenthID	SampleID 9395/BenthID	SampleID 9396/BenthID	SampleID 9399/BenthID
Taxon Name / SampleID/BenID ->	10191(#counted)	10288(#counted)	10289(#counted)	10292(#counted)
Polypedilum halterale grp.	0	0	3	1
Polypedilum illinoense	0	0	5	15
Polypedilum illinoense grp.	0	1	0	0
Polypedilum scalaenum	0	0	0	0
Polypedilum scalaenum grp.	2	4	8	6
Polypedilum sp. a epler	0	0	0	0
Polypedilum tritum	0	0	0	0
Pomacea paludosa	0	0	0	0
Pristina aequiseta	0	0	0	0
Pristina synclites	0	0	0	0
Pristinella jenkinae	0	0	0	0
Probezzia	0	0	0	0
Procambarus	0	0	0	0
Procladius	0	0	0	0
Procladius (holotanypus)	0	0	0	0
Procloeon viridocularis	0	0	0	0
Progomphus	0	0	0	0
Progomphus obscurus	0	0	0	0
Promoresia tardella	0	0	0	0
Prostoma rubrum	0	0	0	0
Psammoryctides convolutus	0	0	0	0
Pseudochironomus	0	0	0	0
Pseudocloeon	0	0	0	0
Psychodidae	0	1	0	0
Pycnopsyche	0	0	0	0
Pyralidae	0	0	0	0
Pyrgophorus platyrachis	0	0	0	0
Ranatra kirkaldyi	0	0	0	1
Rhagovelia	0	0	0	0
Rheocricotopus	0	0	0	0
Rheocricotopus robacki	0	0	0	4
Rheocricotopus tuberculatus	0	0	0	0
Rheotanytarsus	0	0	0	0
Rheotanytarsus distinctissimus grp.	0	0	0	4
Rheotanytarsus exiguus	0	0	0	0
Rheotanytarsus exiguus grp.	0	0	5	6
Rheotanytarsus pellucidus	0	0	0	0
Scirtes	0	0	0	0
Scirtidae	0	0	0	1
Serratella deficiens	0	0	0	0
Sialis	0	0	0	0
Silvius	0	0	0	0

As Calculated / STORET station ->	20010454	20030341	20030265	20030342
Sample date ->	3/4/1996	3/5/1996	3/5/1996	3/5/1996
	SampleID	SampleID	SampleID	SampleID
	9206/BenthID	9395/BenthID	9396/BenthID	9399/BenthID
Taxon Name / SampleID/BenID ->	10191(#counted)	10288(#counted)	10289(#counted)	10292(#counted)
Simuliidae	0	0	0	0
Simulium	4	4	3	0
Slavina appendiculata	1	0	0	0
Somatogyrus walkerianus	0	0	0	0
Sperchon	0	0	0	0
Sperchonopsis	0	0	0	0
Sperchopsis	0	0	0	0
Sphaeriidae	0	0	0	0
Sphaeriidae(mollusca)	0	0	0	0
Sphaeroma	0	0	0	0
Sphaeromias	0	0	0	0
Spirosperma	0	0	0	0
Spirosperma ferox	0	0	0	1
Stelechomyia perpulchra	0	1	0	0
Stempellina	0	0	0	0
Stempellina sp. a epler	0	0	0	0
Stempellinella	0	0	0	0
Stenacron	0	0	2	0
Stenacron floridense	0	0	0	0
Stenacron interpunctatum	0	5	0	0
Stenelmis	0	2	6	1
Stenelmis decorata	0	0	0	0
Stenelmis hungerfordi	0	0	0	0
Stenochironomus	0	2	0	1
Stenonema	0	0	4	0
Stenonema exiguum	0	0	0	1
Stenonema smithae	0	7	0	0
Stratiomyidae	0	0	0	0
Stylaria lacustris	0	0	0	0
Synorthocladius	0	0	0	0
Tabanus	0	0	0	0
Taeniopteryx lita	0	0	0	0
Tanytarsus	0	0	0	0
Tanytarsus sp. a epler	0	0	0	0
Tanytarsus sp. c epler	0	0	0	0
Tanytarsus sp. d epler	4	0	0	0
Tanytarsus sp. e epler	0	0	0	0
Tanytarsus sp. g epler	0	0	0	0
Tanytarsus sp. l epler	2	0	1	0
Tanytarsus sp. m epler	2	0	0	0
Tanytarsus sp. o epler	0	0	0	0
Tanytarsus sp. r epler	0	0	0	0
Tanytarsus sp. s epler	0	0	0	1
Tanytarsus sp. t epler	0	0	0	0
Tanytarsus sp. u epler	0	0	0	0
Taphromysis bowmani	0	0	0	0

As Calculated / STORET station ->	20010454	20030341	20030265	20030342
Sample date ->	3/4/1996	3/5/1996	3/5/1996	3/5/1996
	SampleID 9206/BenthID	SampleID 9395/BenthID	SampleID 9396/BenthID	SampleID 9399/BenthID
Taxon Name / SampleID/BenID ->	10191(#counted)	10288(#counted)	10289(#counted)	10292(#counted)
Thienemanniella	0	0	0	0
Thienemanniella lobapodema	0	0	0	0
Thienemanniella similis	0	0	0	0
Thienemanniella sp. a epler	0	0	0	0
Thienemannimyia grp.	0	0	0	0
Tipula	0	0	0	1
Tipulidae	0	0	0	0
Torrenticola	0	0	0	0
Triaenodes	0	0	0	0
Triaenodes ignitus	0	2	0	0
Triaenodes perna	0	0	0	0
Tribelos	0	0	0	0
Tribelos atrum	0	0	0	0
Tribelos fuscicornis	0	0	0	0
Tribelos jucundum	0	0	0	0
Tricorythodes albilineatus	10	0	0	0
Tubificidae	0	0	0	0
Turbellaria	0	0	0	0
Tvetenia	0	0	0	0
Tvetenia discoloripes grp.	0	0	0	0
Unionicola	0	1	0	0
Unniella multivirga	0	0	0	0
Veliidae	0	0	0	0
Xenochironomus xenolabis	0	0	0	0
Xestochironomus	0	0	0	0
Xylotopus par	0	0	0	0
Zygoptera	0	0	0	0

As Calculated / STORET station ->	31010050	19010099	32020063	28020221
Sample date ->	7/9/1996	7/9/1996	7/16/1996	9/16/1996
	SampleID	SampleID	SampleID	SampleID
	10131/BenthID	10591/BenthID	10633/BenthID	10785/BenthID
Taxon Name / SampleID/BenID ->	10723(#counted)	11209(#counted)	11325(#counted)	11544(#counted)
Ablabesmyia (karelia) grp.	0	0	0	0
Ablabesmyia hauberi	0	0	0	0
Ablabesmyia mallochi	1	10	0	1
Ablabesmyia rhamphe grp.	0	3	0	2
Acentrella parvula	0	0	0	0
Acerpenna pygmaea	0	0	0	1
Acroneuria	2	0	0	0
Acroneuria abnormis	0	0	0	0
Acroneuria arenosa	0	0	0	0
Acroneuria arenosa/evoluta	0	0	0	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	0	0	0	0
Alluaudomyia	0	0	0	0
Amnicola	0	0	0	0
Amnicola dalli	0	0	0	0
Amnicola dalli johnsoni	0	0	0	0
Amphipoda	0	0	0	0
Ancylidae	0	22	2	0
Ancyronyx	0	0	0	0
Ancyronyx variegatus	0	1	2	1
Anisocentropus pyraloides	0	0	3	0
Anopheles	0	0	0	0
Apsectrotanypus johnsoni	1	0	0	0
Argia	0	3	1	0
Argia fumipennis	0	0	0	0
Argia moesta	0	0	0	0
Argia sedula	0	0	0	0
Argia tibialis	0	0	0	0
Arrenurus	0	1	0	0
Arrenurus problecornis	0	0	0	0
Astacidae	0	0	0	0
Atherix	0	0	0	0
Atractides	0	0	0	0
Atrichopogon	0	0	0	0
Aulodrilus pigueti	0	0	0	0
Aulodrilus pluriseta	0	0	0	0
Baetidae	0	0	0	0
Baetis	0	0	0	0
Baetis intercalaris	0	0	0	0
Baetisca rogersi	0	0	0	0
Beardius truncatus	0	0	0	0
Belostoma	0	0	0	0
Belostomatidae	0	0	0	0
Bivalvia	0	0	0	0
Bourletiella	0	0	0	0
Boyeria vinosa	0	1	1	0
Brachycentrus	2	0	0	0
Brachycentrus chelatus	0	0	4	0
Brachycentrus numerosus	0	0	0	0

As Calculated / STORET station ->	31010050	19010099	32020063	28020221
Sample date ->	7/9/1996	7/9/1996	7/16/1996	9/16/1996
	SampleID	SampleID	SampleID	SampleID
	10131/BenthID	10591/BenthID	10633/BenthID	10785/BenthID
Taxon Name / SampleID/BenID ->	10723(#counted)	11209(#counted)	11325(#counted)	11544(#counted)
Brachycercus maculatus	0	0	0	0
Caecidotea	2	6	0	0
Caecidotea racovitzai	0	0	0	0
Caenis	5	0	0	2
Caenis diminuta	0	0	0	0
Caenis hilaris	0	0	0	0
Callibaetis floridanus	0	0	0	0
Calopteryx	0	0	0	0
Calopteryx maculata	0	0	0	0
Cambaridae	2	0	1	0
Campeloma	0	1	0	0
Campeloma limum	0	0	0	0
Cassidinidea ovalis	0	0	0	0
Cecidomyiidae	0	0	0	0
Ceratopogonidae	0	0	0	0
Cernotina	1	1	0	0
Chaoborus	0	0	0	0
Chaoborus albatus	0	0	0	0
Chauliodes	0	0	0	0
Chelifera	1	0	0	0
Cheumatopsyche	17	0	0	1
Chimarra	0	0	24	2
Chironomus	0	0	0	0
Choroterpes basalis	0	0	0	0
Choroterpes hubbelli	0	0	0	0
Cladotanytarsus	0	0	1	0
Cladotanytarsus cf. daviesi	0	0	0	0
Cladotanytarsus sp. i epler	0	0	0	0
Clathrosperchon	0	0	0	0
Climacea areolaris	0	0	0	0
Clinotanypus	0	0	0	0
Coelotanypus	0	0	0	0
Coelotanypus scapularis	0	0	0	0
Coenagrionidae	2	0	0	0
Collembola	0	0	0	0
Conchapelopia	3	0	0	0
Corbicula fluminea	0	0	0	2
Corduliidae	0	0	0	0
Corydalus	0	0	0	0
Corydalus cornuta	0	0	0	0
Corydalus cornutus	1	0	2	1
Corynoneura	0	0	0	0
Corynoneura sp. b epler	0	0	0	0
Corynoneura sp. c epler	0	0	0	0
Corynoneura taris	0	0	0	0

As Calculated / STORET station ->	31010050	19010099	32020063	28020221
Sample date ->	7/9/1996	7/9/1996	7/16/1996	9/16/1996
	SampleID	SampleID	SampleID	SampleID
	10131/BenthID	10591/BenthID	10633/BenthID	10785/BenthID
Taxon Name / SampleID/BenID ->	10723(#counted)	11209(#counted)	11325(#counted)	11544(#counted)
Crangonyx	0	6	6	0
Cricotopus	0	0	0	0
Cricotopus bicinctus	0	0	0	0
Cricotopus bicinctus grp.	0	0	0	0
Cricotopus or orthocladius	0	0	0	5
Cryptochironomus	0	0	0	0
Cryptotendipes	0	0	0	0
Curculionidae	0	0	0	0
Cyrnellus fraternus	0	0	0	0
Demicryptochironomus	0	0	0	0
Dero digitata	0	1	0	0
Dero digitata complex	0	0	0	0
Dero lodeni	0	0	0	0
Dero pectinata	0	0	0	0
Dero trifida	0	0	0	0
Dero vaga	0	5	0	0
Dicrotendipes	0	0	0	0
Dicrotendipes modestus	0	0	0	1
Dicrotendipes neomodestus	0	0	0	0
Dicrotendipes simpsoni	0	0	0	0
Dicrotendipes sp. a epler	0	0	0	0
Dineutus	0	1	1	1
Dineutus discolor	0	0	0	0
Dineutus serrulatus	0	0	0	0
Diplectrona modesta	0	0	0	0
Dixa	0	0	0	0
Dixella	0	0	0	0
Djalmabatista pulcher	0	0	0	1
Dolichopodidae	0	0	0	0
Dromogomphus armatus	0	0	0	0
Dromogomphus spinosus	0	0	0	0
Dryopidae	0	0	0	0
Dubiraphia	0	0	0	0
Dubiraphia quadrinotata	0	0	0	0
Dubiraphia vittata	0	6	0	9
Dugesia	0	0	0	0
Dugesia tigrina	1	0	0	0
Eclipidrilus	0	2	4	0
Eclipidrilus palustris	7	0	0	0
Ectopria	0	0	0	0
Elimia	0	0	0	0
Elimia floridensis	0	0	0	0
Empididae	0	0	0	0
Enallagma	0	0	0	0

As Calculated / STORET station ->	31010050	19010099	32020063	28020221
Sample date ->	7/9/1996	7/9/1996	7/16/1996	9/16/1996
	SampleID	SampleID	SampleID	SampleID
	10131/BenthID	10591/BenthID	10633/BenthID	10785/BenthID
Taxon Name / SampleID/BenID ->	10723(#counted)	11209(#counted)	11325(#counted)	11544(#counted)
Enallagma cardenium	0	0	0	0
Enchytraeidae	0	1	12	0
Endotribelos hesperium	0	0	0	0
Enochrus	0	0	0	0
Ephemerellidae	0	0	0	0
Ephydridae	0	0	0	0
Epitheca	0	4	0	0
Epitheca princeps regina	0	0	2	0
Eurylophella doris	0	0	0	0
Eurylophella temporalis	0	0	0	0
Ferrissia	0	0	0	0
Gammaridae	0	0	0	0
Gammarus	0	0	0	0
Gammarus tigrinus	0	0	0	0
Gastropoda	0	0	0	0
Geayia	0	0	0	0
Gerridae	0	0	0	0
Gloiobdella elongata	0	0	0	0
Goeldichironomus fluctuans	0	0	0	0
Gomphidae	0	1	0	0
Gomphus	0	0	0	0
Gomphus minutus	0	0	0	0
Gonielmis	1	0	0	0
Gonielmis dietrichi	0	0	0	0
Grandidierella bonnieroides	0	0	0	0
Gyretes iricolor	0	0	0	0
Haber speciosus	0	0	0	0
Hagenius brevistylus	0	0	1	0
Hebetancylus excentricus	0	0	0	0
Helobdella stagnalis	0	0	0	0
Helobdella triserialis	0	0	0	0
Helopelopia	0	0	0	0
Hemerodromia	4	2	6	0
Hemiptera	0	0	0	0
Heptageniidae	0	0	0	0
Hetaerina	0	0	0	0
Hetaerina titia	0	0	0	0
Heteroplectron americanum	0	0	0	0
Hexagenia	0	0	0	0
Hexagenia bilineata	0	0	0	0
Hexagenia limbata	0	0	0	0
Hexagenia munda orlando	0	0	0	0
Hexatoma	0	0	1	0
Hyalella azteca	0	0	0	0
Hydra	0	0	0	0
Hydrachna	0	0	0	0
Hydraena marginicollis	0	0	0	0
Hydraenidae	0	0	0	0

As Calculated / STORET station ->	31010050	19010099	32020063	28020221
Sample date ->	7/9/1996	7/9/1996	7/16/1996	9/16/1996
	SampleID	SampleID	SampleID	SampleID
	10131/BenthID	10591/BenthID	10633/BenthID	10785/BenthID
Taxon Name / SampleID/BenID ->	10723(#counted)	11209(#counted)	11325(#counted)	11544(#counted)
Hydrobiidae	0	0	0	0
Hydrodroma	0	1	0	0
Hydrophilidae	0	0	0	0
Hydroporus	0	0	0	0
Hydropsyche	6	0	3	1
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	0	0	0
Hydroptila	0	0	0	0
Hydroptilidae	0	0	0	0
Hygrobates	0	0	0	0
Hygrotus	0	0	0	0
Ischnura	0	1	0	5
Ischnura hastata	0	0	0	0
Isonychia	1	0	0	0
Isoperla	0	0	0	0
Isopoda	0	0	0	0
Isotomurus	0	0	0	0
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	1	0	0
Krendowskia	0	0	0	0
Labiobaetis	1	0	0	2
Labrundinia	0	0	0	0
Labrundinia becki	0	0	0	0
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	0	0	0	0
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	0
Lauterborniella agrayloides	0	0	0	0
Lebertia	1	0	0	0
Lepidoptera	0	0	0	0
Leptoceridae	0	0	0	0
Leptophlebia	0	0	0	0
Leptophlebiidae	3	0	0	6
Leuctra	1	0	2	0
Libellulidae	0	0	0	0
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	5	10	3	1
Limnophila	0	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	0	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	1	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	0	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0	0	0	0

As Calculated / STORET station ->	31010050	19010099	32020063	28020221
Sample date ->	7/9/1996	7/9/1996	7/16/1996	9/16/1996
	SampleID	SampleID	SampleID	SampleID
	10131/BenthID	10591/BenthID	10633/BenthID	10785/BenthID
Taxon Name / SampleID/BenID ->	10723(#counted)	11209(#counted)	11325(#counted)	11544(#counted)
Lype diversa	0	0	0	0
Maccaffertium	0	0	0	0
Maccaffertium smithae	0	0	0	0
Macromia	0	0	0	0
Macromia taeniolata	0	0	0	2
Macromiidae	0	1	0	0
Macronychus glabratus	1	0	0	0
Macrostemum carolina	0	0	0	0
Mayatrichia	0	0	0	0
Mayatrichia ayama	0	0	0	0
Meropelopia	0	0	0	0
Mesosmittia	0	0	0	0
Metrobates	0	0	0	0
Micrasema	0	0	0	0
Micrasema rusticum	0	0	0	0
Micrasema wataga	0	0	0	0
Microcylloepus	0	0	0	0
Microcylloepus pusillus	6	4	0	19
Micromenetus	0	11	0	0
Micromenetus dilatatus	0	0	0	0
Microtendipes pedellus	0	0	0	0
Microtendipes pedellus grp.	9	2	1	0
Microtendipes rydalensis	0	0	0	0
Microtendipes rydalensis grp.	3	0	2	0
Mideopsis	1	1	0	0
Molanna	0	0	0	0
Mooreobdella	0	0	0	0
Mooreobdella tetragon	0	0	0	0
Muscidae	0	0	0	0
Naididae	0	0	0	0
Nais behningi	0	0	0	0
Nais communis	0	0	0	0
Nais communis complex	0	0	0	0
Nais pardalis	0	0	0	0
Nais simplex	0	0	1	0
Nais variabilis	0	0	0	0
Nanocladius	0	1	0	0
Nectopsyche	0	0	0	0
Nectopsyche candida	0	0	0	0
Nectopsyche exquisita	0	0	0	0
Nectopsyche pavida	0	0	0	0
Nemertea	0	0	0	0
Neoperla	0	0	0	0
Neoperla clymene	0	0	0	0
Neoporus	2	0	0	0
Neotrichia	0	0	0	0
Neumania	0	0	0	0

As Calculated / STORET station ->	31010050	19010099	32020063	28020221
Sample date ->	7/9/1996	7/9/1996	7/16/1996	9/16/1996
	SampleID	SampleID	SampleID	SampleID
	10131/BenthID	10591/BenthID	10633/BenthID	10785/BenthID
Taxon Name / SampleID/BenID ->	10723(#counted)	11209(#counted)	11325(#counted)	11544(#counted)
Neumania distincta	0	0	0	0
Neureclipsis	0	0	0	0
Neureclipsis crepuscularis	0	0	0	0
Neurocordulia	0	0	0	0
Neurocordulia alabamensis	0	0	0	1
Neurocordulia virginiensis	0	0	0	0
Nigronia	2	0	0	0
Nigronia fasciatus	0	0	1	0
Nigronia serricornis	0	0	0	0
Nilotanypus	0	0	1	0
Nilothauma	0	1	0	0
Notogillia wetherbyi	0	0	0	0
Nyctiophylax	0	0	0	0
Odonata	0	0	0	0
Odontomyia	0	0	0	0
Oecetis	5	2	0	0
Oecetis cinerascens	0	0	0	0
Oecetis georgia	0	0	0	0
Oecetis inconspicua cmplx.	0	0	0	0
Oecetis morsei or sphyra	0	0	0	0
Oecetis parva	0	0	5	0
Oecetis persimilis	0	0	0	0
Oecetis sp. a floyd	0	0	0	0
Oecetis sp. e floyd	0	0	0	0
Ora/scirtes	0	0	0	0
Oribatei	0	1	0	0
Orthocladiinae	0	0	0	0
Orthocladiinae gen. c epler	0	0	0	0
Orthocladiinae gen. f epler	0	0	0	0
Orthocladius annectens	2	0	0	0
Orthotrichia	0	0	0	0
Oxyethira	0	0	0	0
Pachydiplax longipennis	0	1	0	0
Pagastiella	0	0	0	0
Palaemonetes	0	0	0	0
Palaemonetes kadiakensis	0	0	0	0
Palaemonetes paludosus	0	0	0	1
Palpomyia/bezzia grp.	1	1	2	6
Paracladopelma	0	0	0	0
Paracladopelma loganae	0	0	0	0
Paracladopelma undine	0	0	0	0
Paragnetina	0	0	0	0
Paragnetina fumosa	0	0	0	0

As Calculated / STORET station ->	31010050	19010099	32020063	28020221
Sample date ->	7/9/1996	7/9/1996	7/16/1996	9/16/1996
	SampleID	SampleID	SampleID	SampleID
	10131/BenthID	10591/BenthID	10633/BenthID	10785/BenthID
Taxon Name / SampleID/BenID ->	10723(#counted)	11209(#counted)	11325(#counted)	11544(#counted)
Parakiefferiella	0	0	0	0
Paralauterborniella nigrohalterale	0	0	0	0
Paraleptophlebia volitans	0	0	0	0
Parametriocnemus	0	0	0	0
Parametriocnemus sp. f epler	0	0	0	0
Paranyctiophylax	0	0	0	0
Paraplea	0	0	0	0
Paraponyx	0	0	0	0
Paratanytarsus sp. a epler	0	0	0	0
Paratanytarsus sp. c epler	0	0	0	0
Paratendipes subaequalis	0	0	0	0
Pelecypoda	0	12	0	0
Pelonomus obscurus	0	0	0	0
Peltodytes	0	0	0	0
Pentaneura inconspicua	1	0	0	0
Perlesta	0	0	0	0
Perlesta placida	0	0	1	0
Perlesta placida complex	0	0	0	0
Perlinella	0	0	0	0
Petrophila	0	0	0	0
Phaenopsectra obediens grp.	0	0	0	0
Phaenopsectra punctipes grp.	0	0	0	0
Phylocentropus	0	0	0	0
Physella	0	0	0	0
Physella cubensis	0	0	0	0
Piona	3	0	0	0
Pisidiidae	0	0	4	3
Pisidium	0	0	0	0
Planariidae	0	0	0	0
Planorbella duryi	0	0	0	0
Planorbella scalaris	0	0	0	0
Planorbidae	0	0	0	0
Platyhelminthes	0	0	0	0
Plecoptera	0	0	0	0
Plumulariidae	0	0	0	0
Polycentropodidae	0	0	0	0
Polycentropus	0	0	0	0
Polypedilum	0	0	0	0
Polypedilum aviceps	14	0	0	0
Polypedilum convictum grp.	0	0	3	2
Polypedilum fallax	0	0	0	0
Polypedilum flavum	0	0	0	0

As Calculated / STORET station ->	31010050	19010099	32020063	28020221
Sample date ->	7/9/1996	7/9/1996	7/16/1996	9/16/1996
	SampleID	SampleID	SampleID	SampleID
	10131/BenthID	10591/BenthID	10633/BenthID	10785/BenthID
Taxon Name / SampleID/BenID ->	10723(#counted)	11209(#counted)	11325(#counted)	11544(#counted)
Polypedilum halterale grp.	1	0	1	0
Polypedilum illinoense	0	7	0	0
Polypedilum illinoense grp.	2	0	0	0
Polypedilum scalaenum	0	0	0	0
Polypedilum scalaenum grp.	2	0	0	0
Polypedilum sp. a epler	0	0	0	0
Polypedilum tritum	0	0	0	0
Pomacea paludosa	0	0	0	0
Pristina aequiseta	0	0	0	0
Pristina synclites	0	0	0	0
Pristinella jenkinae	0	1	0	0
Probezzia	0	0	0	0
Procambarus	0	0	0	0
Procladius	0	1	0	0
Procladius (holotanypus)	0	0	0	0
Procloeon viridocularis	0	0	0	0
Progomphus	0	0	0	0
Progomphus obscurus	0	0	0	0
Promoresia tardella	0	0	0	0
Prostoma rubrum	0	0	0	0
Psammoryctides convolutus	0	0	0	0
Pseudochironomus	1	0	0	0
Pseudocloeon	0	0	0	0
Psychodidae	0	0	0	0
Pycnopsyche	0	0	0	0
Pyralidae	0	0	0	0
Pyrgophorus platyrachis	0	0	0	0
Ranatra kirkaldyi	0	0	0	0
Rhagovelia	0	0	0	0
Rheocricotopus	0	0	0	0
Rheocricotopus robacki	1	0	1	0
Rheocricotopus tuberculatus	0	0	0	0
Rheotanytarsus	0	0	2	0
Rheotanytarsus distinctissimus grp.	0	0	0	1
Rheotanytarsus exiguus	0	0	0	0
Rheotanytarsus exiguus grp.	2	0	0	0
Rheotanytarsus pellucidus	0	0	0	0
Scirtes	0	0	0	0
Scirtidae	0	0	0	0
Serratella deficiens	1	0	0	0
Sialis	0	3	0	0
Silvius	0	0	0	0

As Calculated / STORET station ->	31010050	19010099	32020063	28020221
Sample date ->	7/9/1996	7/9/1996	7/16/1996	9/16/1996
	SampleID	SampleID	SampleID	SampleID
	10131/BenthID	10591/BenthID	10633/BenthID	10785/BenthID
Taxon Name / SampleID/BenID ->	10723(#counted)	11209(#counted)	11325(#counted)	11544(#counted)
Simuliidae	0	0	0	0
Simulium	0	0	5	3
Slavina appendiculata	2	2	0	0
Somatogyrus walkerianus	0	0	1	0
Sperchon	0	0	0	0
Sperchonopsis	0	0	0	0
Sperchopsis	0	0	0	0
Sphaeriidae	0	0	0	0
Sphaeriidae(mollusca)	0	0	0	0
Sphaeroma	0	0	0	0
Sphaeromias	0	0	0	0
Spirosperma	0	0	0	0
Spirosperma ferox	0	0	0	0
Stelechomyia perpulchra	0	0	0	0
Stempellina	0	0	0	0
Stempellina sp. a epler	0	0	0	0
Stempellinella	0	2	1	0
Stenacron	0	0	0	0
Stenacron floridense	0	0	6	0
Stenacron interpunctatum	0	0	0	1
Stenelmis	1	3	12	11
Stenelmis decorata	0	0	0	0
Stenelmis hungerfordi	0	0	0	0
Stenochironomus	2	1	7	1
Stenonema	0	0	0	0
Stenonema exiguum	0	0	0	3
Stenonema smithae	1	0	7	0
Stratiomyidae	0	0	0	0
Stylaria lacustris	0	0	0	0
Synorthocladius	0	0	0	0
Tabanus	0	0	0	0
Taeniopteryx lita	0	0	0	0
Tanytarsus	0	0	0	0
Tanytarsus sp. a epler	0	0	0	0
Tanytarsus sp. c epler	0	0	0	7
Tanytarsus sp. d epler	3	0	1	0
Tanytarsus sp. e epler	0	0	0	0
Tanytarsus sp. g epler	0	0	0	0
Tanytarsus sp. l epler	0	0	1	0
Tanytarsus sp. m epler	0	0	3	0
Tanytarsus sp. o epler	0	0	0	0
Tanytarsus sp. r epler	0	0	0	0
Tanytarsus sp. s epler	0	0	0	0
Tanytarsus sp. t epler	0	0	0	0
Tanytarsus sp. u epler	0	0	0	0
Taphromysis bowmani	0	0	0	0

As Calculated / STORET station ->	31010050	19010099	32020063	28020221
Sample date ->	7/9/1996	7/9/1996	7/16/1996	9/16/1996
	SampleID	SampleID	SampleID	SampleID
	10131/BenthID	10591/BenthID	10633/BenthID	10785/BenthID
Taxon Name / SampleID/BenID ->	10723(#counted)	11209(#counted)	11325(#counted)	11544(#counted)
Thienemanniella	0	0	0	0
Thienemanniella lobapodema	0	0	0	0
Thienemanniella similis	0	0	0	0
Thienemanniella sp. a epler	2	0	0	0
Thienemannimyia grp.	0	0	1	0
Tipula	0	0	0	0
Tipulidae	0	0	0	0
Torrenticola	0	1	0	0
Triaenodes	4	1	0	1
Triaenodes ignitus	0	0	0	0
Triaenodes perna	0	0	0	0
Tribelos	0	0	0	0
Tribelos atrum	0	0	0	0
Tribelos fuscicornis	1	2	0	0
Tribelos jucundum	2	4	0	0
Tricorythodes albilineatus	1	0	0	0
Tubificidae	0	0	0	0
Turbellaria	0	0	0	0
Tvetenia	0	0	0	0
Tvetenia discoloripes grp.	0	0	0	0
Unionicola	0	0	0	0
Unniella multivirga	0	0	0	0
Veliidae	0	0	0	0
Xenochironomus xenolabis	0	0	0	0
Xestochironomus	0	0	0	0
Xylotopus par	1	0	0	0
Zygoptera	0	0	0	0

As Calculated / STORET station ->	20020317	22030062	33040064	26011019
Sample date ->	9/16/1996	2/11/1997	2/25/1997	2/18/1997
	SampleID	SampleID	SampleID	SampleID
	10844/BenthID	11464/BenthID	11607/BenthID	12089/BenthID
Taxon Name / SampleID/BenID ->	11554(#counted)	11963(#counted)	12057(#counted)	12197(#counted)
Ablabesmyia (karelia) grp.	0	0	0	0
Ablabesmyia hauberi	0	0	0	0
Ablabesmyia mallochi	0	0	0	3
Ablabesmyia rhamphe grp.	0	0	1	1
Acentrella parvula	0	0	0	0
Acerpenna pygmaea	0	0	0	0
Acroneuria	0	0	0	0
Acroneuria abnormis	0	0	0	0
Acroneuria arenosa	0	0	0	0
Acroneuria arenosa/evoluta	0	0	0	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	0	0	0	0
Alluaudomyia	0	0	0	0
Amnicola	0	0	0	0
Amnicola dalli	0	0	0	0
Amnicola dalli johnsoni	0	0	0	0
Amphipoda	0	0	1	0
Ancylidae	0	2	2	0
Ancyronyx	0	0	0	0
Ancyronyx variegatus	0	0	0	0
Anisocentropus pyraloides	0	0	0	0
Anopheles	0	0	0	0
Apsectrotanypus johnsoni	0	0	0	0
Argia	0	0	0	0
Argia fumipennis	0	0	0	0
Argia moesta	0	0	0	0
Argia sedula	0	0	0	0
Argia tibialis	0	0	0	0
Arrenurus	0	0	0	0
Arrenurus problecornis	0	0	0	0
Astacidae	0	0	0	0
Atherix	0	0	0	0
Atractides	0	2	0	0
Atrichopogon	0	0	0	0
Aulodrilus pigueti	1	0	0	0
Aulodrilus pluriseta	0	0	0	0
Baetidae	0	0	0	0
Baetis	3	0	0	0
Baetis intercalaris	0	0	0	0
Baetisca rogersi	0	0	0	0
Beardius truncatus	0	0	0	0
Belostoma	0	0	0	0
Belostomatidae	0	0	0	0
Bivalvia	0	0	0	0
Bourletiella	0	0	0	0
Boyeria vinosa	0	0	0	0
Brachycentrus	0	0	0	0
Brachycentrus chelatus	0	0	0	0
Brachycentrus numerosus	0	0	0	0

As Calculated / STORET station ->	20020317	22030062	33040064	26011019
Sample date ->	9/16/1996	2/11/1997	2/25/1997	2/18/1997
	SampleID	SampleID	SampleID	SampleID
	10844/BenthID	11464/BenthID	11607/BenthID	12089/BenthID
Taxon Name / SampleID/BenID ->	11554(#counted)	11963(#counted)	12057(#counted)	12197(#counted)
Brachycercus maculatus	0	0	0	0
Caecidotea	0	0	0	0
Caecidotea racovitzai	0	0	0	0
Caenis	0	0	0	0
Caenis diminuta	0	0	0	0
Caenis hilaris	0	0	0	0
Callibaetis floridanus	0	0	0	0
Calopteryx	0	0	0	0
Calopteryx maculata	0	0	1	0
Cambaridae	1	0	0	0
Campeloma	0	0	0	0
Campeloma limum	0	0	0	0
Cassidinidea ovalis	0	0	0	0
Cecidomyiidae	0	0	0	0
Ceratopogonidae	0	0	0	0
Cernotina	0	1	0	0
Chaoborus	0	0	0	0
Chaoborus albatus	0	0	0	0
Chauliodes	0	0	0	0
Chelifera	0	0	0	0
Cheumatopsyche	13	28	0	0
Chimarra	0	0	0	0
Chironomus	0	0	0	0
Choroterpes basalis	0	0	0	0
Choroterpes hubbelli	0	0	0	0
Cladotanytarsus	0	1	0	0
Cladotanytarsus cf. daviesi	0	0	0	0
Cladotanytarsus sp. i epler	0	0	0	0
Clathrosperchon	0	0	0	0
Climacea areolaris	0	0	0	0
Clinotanypus	0	0	0	0
Coelotanypus	0	0	0	0
Coelotanypus scapularis	0	0	0	0
Coenagrionidae	0	0	0	0
Collembola	0	0	0	0
Conchapelopia	0	0	6	0
Corbicula fluminea	2	0	0	4
Corduliidae	1	0	0	0
Corydalus	0	0	0	0
Corydalus cornuta	0	0	0	0
Corydalus cornutus	0	0	0	0
Corynoneura	0	0	0	0
Corynoneura sp. b epler	0	0	0	0
Corynoneura sp. c epler	0	1	0	0
Corynoneura taris	0	0	0	0

As Calculated / STORET station ->	20020317	22030062	33040064	26011019
Sample date ->	9/16/1996	2/11/1997	2/25/1997	2/18/1997
	SampleID	SampleID	SampleID	SampleID
	10844/BenthID	11464/BenthID	11607/BenthID	12089/BenthID
Taxon Name / SampleID/BenID ->	11554(#counted)	11963(#counted)	12057(#counted)	12197(#counted)
Crangonyx	0	0	0	0
Cricotopus	0	0	0	0
Cricotopus bicinctus	0	0	0	0
Cricotopus bicinctus grp.	1	5	0	0
Cricotopus or orthocladius	11	0	0	1
Cryptochironomus	0	0	0	1
Cryptotendipes	7	0	0	0
Curculionidae	0	0	0	0
Cyrnellus fraternus	0	0	0	0
Demicryptochironomus	0	0	0	0
Dero digitata	0	0	0	0
Dero digitata complex	0	0	0	0
Dero lodeni	0	0	0	0
Dero pectinata	0	0	0	0
Dero trifida	0	0	0	1
Dero vaga	0	0	0	0
Dicrotendipes	0	0	0	0
Dicrotendipes modestus	0	0	0	3
Dicrotendipes neomodestus	0	0	0	0
Dicrotendipes simpsoni	0	0	0	0
Dicrotendipes sp. a epler	0	0	0	0
Dineutus	0	0	0	0
Dineutus discolor	0	0	0	0
Dineutus serrulatus	0	0	0	0
Diplectrona modesta	0	0	0	0
Dixa	0	0	0	0
Dixella	0	1	0	0
Djalmabatista pulcher	0	0	0	3
Dolichopodidae	0	0	0	0
Dromogomphus armatus	0	0	0	0
Dromogomphus spinosus	0	0	0	0
Dryopidae	0	0	0	0
Dubiraphia	0	0	4	0
Dubiraphia quadrinotata	0	0	0	0
Dubiraphia vittata	0	0	0	4
Dugesia	0	0	0	0
Dugesia tigrina	2	0	0	0
Eclipidrilus	1	0	4	0
Eclipidrilus palustris	0	0	0	0
Ectopria	0	0	0	0
Elimia	0	0	0	0
Elimia floridensis	0	19	0	0
Empididae	0	0	0	0
Enallagma	0	3	0	0

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Sample date ->	9/16/1996	2/11/1997	2/25/1997	2/18/1997
	SampleID	SampleID	SampleID	SampleID
	10844/BenthID	11464/BenthID	11607/BenthID	12089/BenthID
Taxon Name / SampleID/BenID ->	11554(#counted)	11963(#counted)	12057(#counted)	12197(#counted)
Enallagma cardenium	0	0	0	1
Enchytraeidae	0	0	30	0
Endotribelos hesperium	0	0	0	0
Enochrus	0	0	0	0
Ephemerellidae	0	0	0	0
Ephydridae	0	0	0	0
Epitheca	0	0	0	0
Epitheca princeps regina	0	0	0	0
Eurylophella doris	0	0	0	0
Eurylophella temporalis	0	0	3	0
Ferrissia	0	0	0	0
Gammaridae	0	0	0	0
Gammarus	6	0	0	0
Gammarus tigrinus	0	0	0	0
Gastropoda	0	0	0	0
Geayia	0	0	0	0
Gerridae	0	0	0	0
Gloiobdella elongata	0	0	0	0
Goeldichironomus fluctuans	0	0	0	0
Gomphidae	0	0	0	0
Gomphus	2	0	0	0
Gomphus minutus	0	0	0	0
Gonielmis	0	0	0	0
Gonielmis dietrichi	0	0	0	0
Grandidierella bonnieroides	0	0	0	0
Gyretes iricolor	0	0	0	0
Haber speciosus	0	0	0	0
Hagenius brevistylus	0	0	0	0
Hebetancylus excentricus	0	0	0	0
Helobdella stagnalis	0	0	0	0
Helobdella triserialis	0	0	0	0
Helopelopia	0	0	0	0
Hemerodromia	0	4	0	0
Hemiptera	0	0	0	0
Heptageniidae	0	0	0	0
Hetaerina	0	0	0	1
Hetaerina titia	0	0	0	0
Heteroplectron americanum	0	0	0	0
Hexagenia	0	0	1	0
Hexagenia bilineata	0	0	0	0
Hexagenia limbata	0	0	0	0
Hexagenia munda orlando	0	0	0	0
Hexatoma	0	0	0	0
Hyalella azteca	11	9	0	27
Hydra	0	0	0	0
Hydrachna	0	0	0	0
Hydraena marginicollis	0	0	0	0
Hydraenidae	0	0	0	0

As Calculated / STORET station ->	20020317	22030062	33040064	26011019
Sample date ->	9/16/1996	2/11/1997	2/25/1997	2/18/1997
	SampleID	SampleID	SampleID	SampleID
	10844/BenthID	11464/BenthID	11607/BenthID	12089/BenthID
Taxon Name / SampleID/BenID ->	11554(#counted)	11963(#counted)	12057(#counted)	12197(#counted)
Hydrobiidae	0	0	0	0
Hydrodroma	0	0	0	0
Hydrophilidae	0	0	0	0
Hydroporus	0	0	2	0
Hydropsyche	25	0	0	0
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	0	0	0
Hydroptila	2	3	0	3
Hydroptilidae	0	0	0	0
Hygrobates	0	0	0	0
Hygrotus	0	0	1	0
Ischnura	0	0	0	4
Ischnura hastata	0	0	0	0
Isonychia	0	0	0	0
Isoperla	0	0	0	0
Isopoda	0	0	0	0
Isotomurus	0	0	0	0
Isotomurus tricolor	0	1	0	0
Kiefferulus	0	0	0	0
Krendowskia	0	0	0	0
Labiobaetis	1	2	0	3
Labrundinia	0	0	1	0
Labrundinia becki	0	0	0	0
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	0	0	0	0
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	0
Lauterborniella agrayloides	0	0	0	0
Lebertia	3	1	0	0
Lepidoptera	0	0	0	1
Leptoceridae	0	0	0	0
Leptophlebia	0	0	0	0
Leptophlebiidae	0	0	7	0
Leuctra	0	0	1	0
Libellulidae	0	0	0	0
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	17	0	0	4
Limnophila	0	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	0	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	0	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	0	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0	0	0	0

As Calculated / STORET station ->	20020317	22030062	33040064	26011019
Sample date ->	9/16/1996	2/11/1997	2/25/1997	2/18/1997
	SampleID	SampleID	SampleID	SampleID
	10844/BenthID	11464/BenthID	11607/BenthID	12089/BenthID
Taxon Name / SampleID/BenID ->	11554(#counted)	11963(#counted)	12057(#counted)	12197(#counted)
Lype diversa	0	0	0	0
Maccaffertium	0	0	0	0
Maccaffertium smithae	0	0	0	0
Macromia	0	0	0	0
Macromia taeniolata	0	0	0	1
Macromiidae	0	0	0	0
Macronychus glabratus	0	1	0	0
Macrostemum carolina	0	0	0	0
Mayatrichia	0	0	0	0
Mayatrichia ayama	0	0	0	0
Meropelopia	0	0	0	0
Mesosmittia	0	0	0	0
Metrobates	0	0	0	0
Micrasema	0	5	0	0
Micrasema rusticum	0	0	0	0
Micrasema wataga	0	0	0	0
Microcylloepus	0	0	0	0
Microcylloepus pusillus	0	0	0	10
Micromenetus	0	0	0	0
Micromenetus dilatatus	0	0	0	0
Microtendipes pedellus	0	0	16	0
Microtendipes pedellus grp.	0	0	0	0
Microtendipes rydalensis	0	0	0	0
Microtendipes rydalensis grp.	0	0	0	0
Mideopsis	2	0	1	0
Molanna	0	0	1	0
Mooreobdella	0	0	0	0
Mooreobdella tetragon	0	0	0	1
Muscidae	0	0	0	0
Naididae	0	0	0	0
Nais behningi	0	0	0	0
Nais communis	0	0	0	0
Nais communis complex	0	0	0	0
Nais pardalis	0	0	0	0
Nais simplex	0	0	0	0
Nais variabilis	0	0	0	0
Nanocladius	0	0	0	0
Nectopsyche	2	0	0	0
Nectopsyche candida	0	0	0	0
Nectopsyche exquisita	0	0	0	7
Nectopsyche pavida	0	0	0	0
Nemertea	0	0	0	0
Neoperla	0	0	0	0
Neoperla clymene	0	0	0	0
Neoporus	0	0	0	0
Neotrichia	0	0	0	0
Neumania	0	0		

As Calculated / STORET station ->	20020317	22030062	33040064	26011019
Sample date ->	9/16/1996	2/11/1997	2/25/1997	2/18/1997
	SampleID	SampleID	SampleID	SampleID
	10844/BenthID	11464/BenthID	11607/BenthID	12089/BenthID
Taxon Name / SampleID/BenID ->	11554(#counted)	11963(#counted)	12057(#counted)	12197(#counted)
Neumania distincta	0	0	0	0
Neureclipsis	0	0	0	0
Neureclipsis crepuscularis	0	0	0	0
Neurocordulia	0	0	0	0
Neurocordulia alabamensis	0	0	0	0
Neurocordulia virginiensis	0	0	0	0
Nigronia	0	0	0	0
Nigronia fasciatus	0	0	0	0
Nigronia serricornis	0	0	0	0
Nilotanypus	0	0	0	0
Nilothauma	0	0	0	2
Notogillia wetherbyi	0	0	0	0
Nyctiophylax	0	0	1	0
Odonata	0	0	0	0
Odontomyia	0	0	0	0
Oecetis	2	1	1	6
Oecetis cinerascens	0	0	0	0
Oecetis georgia	0	0	0	0
Oecetis inconspicua cmplx.	0	0	0	0
Oecetis morsei or sphyra	0	0	0	0
Oecetis parva	0	0	0	0
Oecetis persimilis	0	0	0	0
Oecetis sp. a floyd	0	0	0	0
Oecetis sp. e floyd	0	0	0	0
Ora/scirtes	0	0	0	0
Oribatei	0	0	0	0
Orthocladiinae	0	0	0	0
Orthocladiinae gen. c epler	0	0	0	0
Orthocladiinae gen. f epler	0	0	0	0
Orthocladius annectens	0	0	0	0
Orthotrichia	0	5	0	0
Oxyethira	0	1	1	1
Pachydiplax longipennis	0	0	0	0
Pagastiella	0	0	0	0
Palaemonetes	0	0	0	0
Palaemonetes kadiakensis	0	0	0	0
Palaemonetes paludosus	2	0	0	0
Palpomyia/bezzia grp.	5	0	5	1
Paracladopelma	0	0	0	0
Paracladopelma loganae	0	0	0	0
Paracladopelma undine	0	0	0	0
Paragnetina	0	0	0	0
Paragnetina fumosa	0	0	0	0

As Calculated / STORET station ->	20020317	22030062	33040064	26011019
Sample date ->	9/16/1996	2/11/1997	2/25/1997	2/18/1997
	SampleID	SampleID	SampleID	SampleID
	10844/BenthID	11464/BenthID	11607/BenthID	12089/BenthID
Taxon Name / SampleID/BenID ->	11554(#counted)	11963(#counted)	12057(#counted)	12197(#counted)
Parakiefferiella	0	0	0	0
Paralauterborniella nigrohalterale	2	0	1	0
Paraleptophlebia volitans	0	0	0	0
Parametriocnemus	0	3	3	0
Parametriocnemus sp. f epler	0	0	0	0
Paranyctiophylax	0	0	0	0
Paraplea	0	0	0	0
Paraponyx	0	0	0	0
Paratanytarsus sp. a epler	0	0	0	0
Paratanytarsus sp. c epler	0	3	0	0
Paratendipes subaequalis	0	0	0	0
Pelecypoda	0	0	0	0
Pelonomus obscurus	0	0	0	0
Peltodytes	0	0	0	0
Pentaneura inconspicua	4	1	0	0
Perlesta	0	0	0	0
Perlesta placida	0	0	0	0
Perlesta placida complex	0	0	0	0
Perlinella	0	0	0	0
Petrophila	0	0	0	0
Phaenopsectra obediens grp.	0	0	0	0
Phaenopsectra punctipes grp.	0	1	0	0
Phylocentropus	0	0	0	0
Physella	0	0	0	0
Physella cubensis	0	0	0	0
Piona	0	0	0	0
Pisidiidae	0	0	0	5
Pisidium	0	0	0	0
Planariidae	0	0	0	0
Planorbella duryi	0	0	0	0
Planorbella scalaris	0	0	0	0
Planorbidae	0	0	0	0
Platyhelminthes	0	0	0	0
Plecoptera	0	0	0	0
Plumulariidae	0	0	0	0
Polycentropodidae	0	0	0	0
Polycentropus	0	0	0	0
Polypedilum	0	0	1	0
Polypedilum aviceps	0	0	0	0
Polypedilum convictum grp.	18	1	0	14
Polypedilum fallax	0	0	0	3
Polypedilum flavum	0	0	0	0

As Calculated / STORET station ->	20020317	22030062	33040064	26011019
Sample date ->	9/16/1996	2/11/1997	2/25/1997	2/18/1997
	SampleID	SampleID	SampleID	SampleID
	10844/BenthID	11464/BenthID	11607/BenthID	12089/BenthID
Taxon Name / SampleID/BenID ->	11554(#counted)	11963(#counted)	12057(#counted)	12197(#counted)
Polypedilum halterale grp.	1	0	0	0
Polypedilum illinoense	0	0	0	0
Polypedilum illinoense grp.	2	11	0	2
Polypedilum scalaenum	0	0	0	0
Polypedilum scalaenum grp.	0	0	0	13
Polypedilum sp. a epler	0	0	0	0
Polypedilum tritum	0	0	0	0
Pomacea paludosa	0	0	0	0
Pristina aequiseta	0	0	0	0
Pristina synclites	0	0	0	0
Pristinella jenkinae	0	0	0	0
Probezzia	0	0	0	0
Procambarus	0	0	0	0
Procladius	0	0	2	0
Procladius (holotanypus)	0	0	0	0
Procloeon viridocularis	0	0	0	0
Progomphus	0	0	0	0
Progomphus obscurus	0	0	0	0
Promoresia tardella	0	0	0	0
Prostoma rubrum	0	0	0	0
Psammoryctides convolutus	0	0	0	0
Pseudochironomus	0	0	0	0
Pseudocloeon	0	0	0	0
Psychodidae	0	0	0	0
Pycnopsyche	0	0	0	0
Pyralidae	2	0	0	0
Pyrgophorus platyrachis	0	0	0	0
Ranatra kirkaldyi	0	0	0	0
Rhagovelia	0	0	0	0
Rheocricotopus	0	0	0	0
Rheocricotopus robacki	0	8	0	1
Rheocricotopus tuberculatus	0	0	8	0
Rheotanytarsus	0	0	0	0
Rheotanytarsus distinctissimus grp.	1	7	0	0
Rheotanytarsus exiguus	0	0	0	0
Rheotanytarsus exiguus grp.	2	0	0	1
Rheotanytarsus pellucidus	0	0	0	0
Scirtes	0	0	0	1
Scirtidae	0	0	0	0
Serratella deficiens	0	0	0	0
Sialis	0	0	0	0
Silvius	0	0	0	0

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Sample date ->	9/16/1996	2/11/1997	2/25/1997	2/18/1997
	SampleID	SampleID	SampleID	SampleID
	10844/BenthID	11464/BenthID	11607/BenthID	12089/BenthID
Taxon Name / SampleID/BenID ->	11554(#counted)	11963(#counted)	12057(#counted)	12197(#counted)
Simuliidae	0	0	0	0
Simulium	1	0	2	0
Slavina appendiculata	0	1	0	0
Somatogyrus walkerianus	0	0	0	0
Sperchon	0	0	0	0
Sperchonopsis	0	0	0	0
Sperchopsis	0	0	0	0
Sphaeriidae	0	0	0	0
Sphaeriidae(mollusca)	0	0	0	0
Sphaeroma	0	0	0	0
Sphaeromias	0	0	0	0
Spirosperma	0	0	0	0
Spirosperma ferox	0	0	0	0
Stelechomyia perpulchra	0	0	0	0
Stempellina	0	0	0	0
Stempellina sp. a epler	0	0	0	0
Stempellinella	0	1	0	4
Stenacron	0	0	1	0
Stenacron floridense	0	0	0	0
Stenacron interpunctatum	0	0	0	0
Stenelmis	0	0	0	2
Stenelmis decorata	0	0	0	0
Stenelmis hungerfordi	0	0	0	0
Stenochironomus	0	5	1	1
Stenonema	0	0	0	0
Stenonema exiguum	0	5	0	0
Stenonema smithae	0	0	0	0
Stratiomyidae	0	0	0	0
Stylaria lacustris	0	0	0	0
Synorthocladius	0	0	0	0
Tabanus	0	0	0	0
Taeniopteryx lita	0	0	0	0
Tanytarsus	0	0	0	0
Tanytarsus sp. a epler	0	0	0	0
Tanytarsus sp. c epler	0	0	4	0
Tanytarsus sp. d epler	0	0	0	0
Tanytarsus sp. e epler	0	0	0	0
Tanytarsus sp. g epler	2	0	0	0
Tanytarsus sp. l epler	1	1	4	6
Tanytarsus sp. m epler	0	0	9	4
Tanytarsus sp. o epler	0	0	5	0
Tanytarsus sp. r epler	0	0	0	0
Tanytarsus sp. s epler	0	0	3	2
Tanytarsus sp. t epler	0	2	0	0
Tanytarsus sp. u epler	0	0	0	0
Taphromysis bowmani	0	0	0	0

As Calculated / STORET station ->	20020317	22030062	33040064	26011019
Sample date ->	9/16/1996	2/11/1997	2/25/1997	2/18/1997
	SampleID	SampleID	SampleID	SampleID
	10844/BenthID	11464/BenthID	11607/BenthID	12089/BenthID
Taxon Name / SampleID/BenID ->	11554(#counted)	11963(#counted)	12057(#counted)	12197(#counted)
Thienemanniella	0	0	0	0
Thienemanniella lobapodema	0	0	0	0
Thienemanniella similis	3	0	0	0
Thienemanniella sp. a epler	0	0	0	0
Thienemannimyia grp.	0	0	2	0
Tipula	0	0	0	0
Tipulidae	0	0	0	0
Torrenticola	0	0	0	0
Triaenodes	0	1	0	0
Triaenodes ignitus	0	0	0	0
Triaenodes perna	0	0	0	0
Tribelos	0	0	1	0
Tribelos atrum	0	0	0	0
Tribelos fuscicornis	0	0	0	1
Tribelos jucundum	0	0	0	0
Tricorythodes albilineatus	4	0	0	0
Tubificidae	0	0	0	0
Turbellaria	0	0	0	0
Tvetenia	0	0	0	0
Tvetenia discoloripes grp.	0	0	0	0
Unionicola	0	0	0	0
Unniella multivirga	0	0	1	0
Veliidae	0	0	0	0
Xenochironomus xenolabis	0	0	0	0
Xestochironomus	0	0	0	0
Xylotopus par	0	0	0	0
Zygoptera	0	0	0	2

As Calculated / STORET station ->	31020040	26011020	20030456	33010054
Sample date ->	2/4/1997	2/18/1997	7/2/1997	8/12/1997
	SampleID	SampleID	SampleID	SampleID
	12092/BenthID	12224/BenthID	12401/BenthID	12436/BenthID
Taxon Name / SampleID/BenID ->	12201(#counted)	12340(#counted)	12463(#counted)	12486(#counted)
Ablabesmyia (karelia) grp.	0	0	0	0
Ablabesmyia hauberi	0	0	0	0
Ablabesmyia mallochi	0	0	1	0
Ablabesmyia rhamphe grp.	0	0	0	0
Acentrella parvula	0	0	0	0
Acerpenna pygmaea	0	2	1	0
Acroneuria	14	0	0	1
Acroneuria abnormis	0	0	0	0
Acroneuria arenosa	0	0	0	0
Acroneuria arenosa/evoluta	0	0	0	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	0	0	0	0
Alluaudomyia	0	0	0	0
Amnicola	0	0	0	0
Amnicola dalli	0	0	0	0
Amnicola dalli johnsoni	0	0	0	0
Amphipoda	0	0	0	0
Ancylidae	0	0	4	0
Ancyronyx	1	0	0	0
Ancyronyx variegatus	0	0	0	7
Anisocentropus pyraloides	0	0	0	0
Anopheles	0	1	0	0
Apsectrotanypus johnsoni	0	0	0	0
Argia	1	0	0	0
Argia fumipennis	0	0	0	0
Argia moesta	0	0	0	0
Argia sedula	0	0	0	0
Argia tibialis	0	0	0	0
Arrenurus	0	2	0	1
Arrenurus problecornis	0	0	0	0
Astacidae	0	0	0	0
Atherix	0	0	0	0
Atractides	0	0	0	0
Atrichopogon	0	0	0	0
Aulodrilus pigueti	0	0	0	0
Aulodrilus pluriseta	0	0	0	0
Baetidae	0	0	0	0
Baetis	0	0	0	0
Baetis intercalaris	0	0	0	0
Baetisca rogersi	0	0	0	0
Beardius truncatus	0	0	0	0
Belostoma	0	0	0	0
Belostomatidae	0	0	0	0
Bivalvia	0	0	0	0
Bourletiella	0	0	0	0
Boyeria vinosa	0	0	0	1
Brachycentrus	0	0	0	0
Brachycentrus chelatus	0	0	0	4
Brachycentrus numerosus	0	0	0	0

As Calculated / STORET station ->	31020040	26011020	20030456	33010054
Sample date ->	2/4/1997	2/18/1997	7/2/1997	8/12/1997
	SampleID	SampleID	SampleID	SampleID
	12092/BenthID	12224/BenthID	12401/BenthID	12436/BenthID
Taxon Name / SampleID/BenID ->	12201(#counted)	12340(#counted)	12463(#counted)	12486(#counted)
Brachycercus maculatus	0	0	0	0
Caecidotea	0	0	0	0
Caecidotea racovitzai	0	0	0	0
Caenis	0	0	0	0
Caenis diminuta	0	0	0	0
Caenis hilaris	0	0	0	0
Callibaetis floridanus	0	0	1	0
Calopteryx	0	0	4	0
Calopteryx maculata	0	0	0	0
Cambaridae	0	0	0	0
Campeloma	0	0	0	0
Campeloma limum	0	0	0	0
Cassidinidea ovalis	0	0	0	0
Cecidomyiidae	0	0	0	0
Ceratopogonidae	0	0	0	0
Cernotina	0	0	0	0
Chaoborus	0	0	0	0
Chaoborus albatus	0	0	0	0
Chauliodes	0	0	0	0
Chelifera	0	0	0	0
Cheumatopsyche	0	2	0	0
Chimarra	3	0	0	0
Chironomus	0	0	0	0
Choroterpes basalis	0	0	0	0
Choroterpes hubbelli	0	0	0	0
Cladotanytarsus	0	0	0	0
Cladotanytarsus cf. daviesi	0	0	0	0
Cladotanytarsus sp. i epler	0	0	0	0
Clathrosperchon	0	0	0	0
Climacea areolaris	0	0	0	0
Clinotanypus	0	0	0	0
Coelotanypus	0	0	0	0
Coelotanypus scapularis	0	0	0	0
Coenagrionidae	0	0	0	0
Collembola	0	0	0	0
Conchapelopia	1	0	1	1
Corbicula fluminea	0	1	0	0
Corduliidae	0	0	0	0
Corydalus	0	0	0	0
Corydalus cornuta	0	0	0	0
Corydalus cornutus	0	0	0	0
Corynoneura	0	0	1	0
Corynoneura sp. b epler	0	0	0	0
Corynoneura sp. c epler	0	0	0	0
Corynoneura taris	0	0	0	0

As Calculated / STORET station ->	31020040	26011020	20030456	33010054
Sample date ->	2/4/1997	2/18/1997	7/2/1997	8/12/1997
	SampleID	SampleID	SampleID	SampleID
	12092/BenthID	12224/BenthID	12401/BenthID	12436/BenthID
Taxon Name / SampleID/BenID ->	12201(#counted)	12340(#counted)	12463(#counted)	12486(#counted)
Crangonyx	0	0	0	0
Cricotopus	0	0	0	0
Cricotopus bicinctus	0	0	0	0
Cricotopus bicinctus grp.	0	0	0	0
Cricotopus or orthocladius	0	0	0	0
Cryptochironomus	0	0	0	0
Cryptotendipes	0	0	0	0
Curculionidae	0	0	0	0
Cyrnellus fraternus	0	0	0	0
Demicryptochironomus	0	0	0	0
Dero digitata	0	0	0	0
Dero digitata complex	0	0	0	0
Dero lodeni	0	0	0	0
Dero pectinata	0	0	0	0
Dero trifida	0	0	0	0
Dero vaga	0	0	0	0
Dicrotendipes	0	0	0	0
Dicrotendipes modestus	0	0	0	0
Dicrotendipes neomodestus	0	0	0	0
Dicrotendipes simpsoni	0	0	0	0
Dicrotendipes sp. a epler	0	0	0	0
Dineutus	0	0	0	0
Dineutus discolor	0	0	0	0
Dineutus serrulatus	0	0	0	0
Diplectrona modesta	0	0	0	1
Dixa	0	0	0	0
Dixella	0	0	0	0
Djalmabatista pulcher	0	1	0	0
Dolichopodidae	0	0	0	0
Dromogomphus armatus	0	0	0	0
Dromogomphus spinosus	0	0	0	0
Dryopidae	0	0	0	0
Dubiraphia	0	0	0	2
Dubiraphia quadrinotata	0	0	0	0
Dubiraphia vittata	0	2	0	0
Dugesia	0	0	0	0
Dugesia tigrina	0	0	0	0
Eclipidrilus	1	0	0	0
Eclipidrilus palustris	0	0	0	0
Ectopria	0	0	0	1
Elimia	0	0	0	0
Elimia floridensis	0	0	0	0
Empididae	0	0	0	0
Enallagma	0	1	0	0

As Calculated / STORET station ->	31020040	26011020	20030456	33010054
Sample date ->	2/4/1997	2/18/1997	7/2/1997	8/12/1997
	SampleID	SampleID	SampleID	SampleID
	12092/BenthID	12224/BenthID	12401/BenthID	12436/BenthID
Taxon Name / SampleID/BenID ->	12201(#counted)	12340(#counted)	12463(#counted)	12486(#counted)
Enallagma cardenium	0	0	0	0
Enchytraeidae	1	1	0	3
Endotribelos hesperium	0	0	0	0
Enochrus	0	0	0	0
Ephemerellidae	0	0	0	0
Ephydridae	0	0	0	2
Epitheca	0	0	0	0
Epitheca princeps regina	0	0	0	0
Eurylophella doris	8	0	0	0
Eurylophella temporalis	0	0	0	0
Ferrissia	0	0	0	0
Gammaridae	0	0	0	0
Gammarus	0	0	1	0
Gammarus tigrinus	0	0	0	0
Gastropoda	0	0	0	0
Geayia	0	0	0	0
Gerridae	0	0	0	0
Gloiobdella elongata	0	0	0	0
Goeldichironomus fluctuans	0	0	0	0
Gomphidae	0	0	1	0
Gomphus	0	0	0	0
Gomphus minutus	0	0	0	0
Gonielmis	0	0	0	0
Gonielmis dietrichi	2	0	0	3
Grandidierella bonnieroides	0	0	0	0
Gyretes iricolor	0	0	0	0
Haber speciosus	0	0	0	0
Hagenius brevistylus	0	0	0	0
Hebetancylus excentricus	0	0	0	0
Helobdella stagnalis	0	0	0	0
Helobdella triserialis	0	0	0	0
Helopelopia	0	0	0	0
Hemerodromia	0	5	15	2
Hemiptera	0	0	0	0
Heptageniidae	0	0	0	0
Hetaerina	0	0	0	0
Hetaerina titia	0	0	0	0
Heteroplectron americanum	0	0	0	0
Hexagenia	0	0	1	0
Hexagenia bilineata	0	0	0	0
Hexagenia limbata	0	0	0	0
Hexagenia munda orlando	0	0	0	0
Hexatoma	1	0	0	0
Hyalella azteca	0	11	0	0
Hydra	0	0	0	0
Hydrachna	0	0	0	0
Hydraena marginicollis	0	0	0	0
Hydraenidae	0	0	0	0

As Calculated / STORET station ->	31020040	26011020	20030456	33010054
Sample date ->	2/4/1997	2/18/1997	7/2/1997	8/12/1997
	SampleID	SampleID	SampleID	SampleID
	12092/BenthID	12224/BenthID	12401/BenthID	12436/BenthID
Taxon Name / SampleID/BenID ->	12201(#counted)	12340(#counted)	12463(#counted)	12486(#counted)
Hydrobiidae	0	0	0	0
Hydrodroma	0	0	0	0
Hydrophilidae	0	0	0	0
Hydroporus	0	0	0	0
Hydropsyche	2	0	0	9
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	0	0	0
Hydroptila	0	4	0	0
Hydroptilidae	0	0	0	0
Hygrobates	0	0	0	0
Hygrotus	0	0	0	0
Ischnura	0	0	1	0
Ischnura hastata	0	0	0	0
Isonychia	0	0	0	0
Isoperla	19	0	0	0
Isopoda	0	0	0	0
Isotomurus	0	0	0	0
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	0	0	0
Krendowskia	0	0	0	0
Labiobaetis	0	0	0	0
Labrundinia	0	0	1	0
Labrundinia becki	0	0	0	0
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	0	0	0	0
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	1
Larsia decolorata	0	0	1	0
Lauterborniella agrayloides	0	0	0	0
Lebertia	0	0	0	0
Lepidoptera	0	0	0	0
Leptoceridae	0	0	0	0
Leptophlebia	0	0	0	0
Leptophlebiidae	3	0	1	1
Leuctra	0	0	20	8
Libellulidae	0	0	0	0
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	0	0	1	1
Limnophila	0	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	0	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	0	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	0	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0	0	0	0

As Calculated / STORET station ->	31020040	26011020	20030456	33010054
Sample date ->	2/4/1997	2/18/1997	7/2/1997	8/12/1997
	SampleID	SampleID	SampleID	SampleID
	12092/BenthID	12224/BenthID	12401/BenthID	12436/BenthID
Taxon Name / SampleID/BenID ->	12201(#counted)	12340(#counted)	12463(#counted)	12486(#counted)
Lype diversa	0	0	0	1
Maccaffertium	0	0	0	0
Maccaffertium smithae	0	0	0	0
Macromia	0	0	0	0
Macromia taeniolata	0	0	0	0
Macromiidae	0	0	0	0
Macronychus glabratus	0	0	0	0
Macrostemum carolina	0	0	0	0
Mayatrichia	0	0	0	0
Mayatrichia ayama	0	1	0	0
Meropelopia	0	0	0	0
Mesosmittia	0	0	0	0
Metrobates	0	0	0	0
Micrasema	0	0	0	0
Micrasema rusticum	0	0	0	0
Micrasema wataga	0	0	0	0
Microcylloepus	0	0	0	0
Microcylloepus pusillus	0	14	0	9
Micromenetus	0	0	0	0
Micromenetus dilatatus	0	0	0	0
Microtendipes pedellus	0	0	0	0
Microtendipes pedellus grp.	0	0	2	0
Microtendipes rydalensis	0	0	0	1
Microtendipes rydalensis grp.	0	0	0	0
Mideopsis	0	0	0	0
Molanna	0	0	0	0
Mooreobdella	0	0	0	0
Mooreobdella tetragon	0	0	0	0
Muscidae	0	0	0	0
Naididae	0	0	0	0
Nais behningi	0	0	0	0
Nais communis	0	2	1	0
Nais communis complex	0	0	0	0
Nais pardalis	0	1	0	0
Nais simplex	0	0	0	0
Nais variabilis	0	0	0	0
Nanocladius	0	0	0	0
Nectopsyche	0	0	1	0
Nectopsyche candida	0	0	0	0
Nectopsyche exquisita	0	1	0	0
Nectopsyche pavida	0	0	0	0
Nemertea	0	0	0	0
Neoperla	0	0	0	0
Neoperla clymene	0	0	0	0
Neoporus	0	0	0	0
Neotrichia	0	1	0	0
Neumania	0	0	0	0

As Calculated / STORET station ->	31020040	26011020	20030456	33010054
Sample date ->	2/4/1997	2/18/1997	7/2/1997	8/12/1997
	SampleID	SampleID	SampleID	SampleID
	12092/BenthID	12224/BenthID	12401/BenthID	12436/BenthID
Taxon Name / SampleID/BenID ->	12201(#counted)	12340(#counted)	12463(#counted)	12486(#counted)
Neumania distincta	0	0	0	0
Neureclipsis	0	0	0	0
Neureclipsis crepuscularis	0	0	0	0
Neurocordulia	0	0	0	0
Neurocordulia alabamensis	0	0	0	0
Neurocordulia virginiensis	0	0	0	0
Nigronia	0	0	0	0
Nigronia fasciatus	0	0	0	0
Nigronia serricornis	0	0	0	0
Nilotanypus	0	0	0	0
Nilothauma	0	0	0	0
Notogillia wetherbyi	0	0	0	0
Nyctiophylax	0	0	0	0
Odonata	0	0	0	0
Odontomyia	0	0	0	0
Oecetis	1	9	0	0
Oecetis cinerascens	0	0	0	0
Oecetis georgia	0	0	10	0
Oecetis inconspicua cmplx.	0	0	0	0
Oecetis morsei or sphyra	0	0	0	1
Oecetis parva	0	0	0	0
Oecetis persimilis	0	0	0	0
Oecetis sp. a floyd	0	0	0	0
Oecetis sp. e floyd	0	0	0	0
Ora/scirtes	0	0	0	0
Oribatei	0	1	0	0
Orthocladiinae	0	0	0	0
Orthocladiinae gen. c epler	0	0	0	0
Orthocladiinae gen. f epler	0	0	0	0
Orthocladius annectens	0	0	0	0
Orthotrichia	0	0	0	0
Oxyethira	0	0	0	0
Pachydiplax longipennis	0	0	0	0
Pagastiella	0	0	0	0
Palaemonetes	0	0	0	0
Palaemonetes kadiakensis	0	0	0	0
Palaemonetes paludosus	0	0	0	0
Palpomyia/bezzia grp.	0	3	0	0
Paracladopelma	0	0	0	0
Paracladopelma loganae	0	0	0	0
Paracladopelma undine	0	0	0	0
Paragnetina	0	0	0	0
Paragnetina fumosa	0	0	0	1

As Calculated / STORET station ->	31020040	26011020	20030456	33010054
Sample date ->	2/4/1997	2/18/1997	7/2/1997	8/12/1997
	SampleID	SampleID	SampleID	SampleID
	12092/BenthID	12224/BenthID	12401/BenthID	12436/BenthID
Taxon Name / SampleID/BenID ->	12201(#counted)	12340(#counted)	12463(#counted)	12486(#counted)
Parakiefferiella	0	0	0	0
Paralauterborniella nigrohalterale	0	0	0	0
Paraleptophlebia volitans	0	0	0	0
Parametriocnemus	0	0	4	1
Parametriocnemus sp. f epler	0	0	0	0
Paranyctiophylax	0	0	0	0
Paraplea	0	0	0	0
Paraponyx	0	0	0	0
Paratanytarsus sp. a epler	0	0	0	0
Paratanytarsus sp. c epler	0	0	0	0
Paratendipes subaequalis	0	0	0	0
Pelecypoda	0	0	0	0
Pelonomus obscurus	0	0	0	0
Peltodytes	0	0	0	0
Pentaneura inconspicua	0	0	0	1
Perlesta	21	0	0	0
Perlesta placida	0	0	0	0
Perlesta placida complex	0	0	0	0
Perlinella	0	0	0	0
Petrophila	0	0	0	0
Phaenopsectra obediens grp.	0	0	0	0
Phaenopsectra punctipes grp.	0	0	0	0
Phylocentropus	0	0	0	0
Physella	0	1	0	0
Physella cubensis	0	0	0	0
Piona	0	0	0	0
Pisidiidae	0	11	0	0
Pisidium	0	0	0	0
Planariidae	0	0	0	0
Planorbella duryi	0	0	0	0
Planorbella scalaris	0	0	0	0
Planorbidae	0	0	0	0
Platyhelminthes	0	0	0	0
Plecoptera	0	0	0	0
Plumulariidae	0	0	0	0
Polycentropodidae	0	0	0	0
Polycentropus	0	0	1	0
Polypedilum	0	0	0	0
Polypedilum aviceps	0	0	0	0
Polypedilum convictum grp.	2	0	0	16
Polypedilum fallax	1	0	0	1
Polypedilum flavum	0	0	0	0

As Calculated / STORET station ->	31020040	26011020	20030456	33010054
Sample date ->	2/4/1997	2/18/1997	7/2/1997	8/12/1997
	SampleID	SampleID	SampleID	SampleID
	12092/BenthID	12224/BenthID	12401/BenthID	12436/BenthID
Taxon Name / SampleID/BenID ->	12201(#counted)	12340(#counted)	12463(#counted)	12486(#counted)
Polypedilum halterale grp.	0	0	0	0
Polypedilum illinoense	0	0	0	0
Polypedilum illinoense grp.	0	4	0	2
Polypedilum scalaenum	0	0	0	0
Polypedilum scalaenum grp.	0	0	2	1
Polypedilum sp. a epler	0	0	0	0
Polypedilum tritum	0	0	0	0
Pomacea paludosa	0	0	0	0
Pristina aequiseta	0	0	0	0
Pristina synclites	0	0	0	0
Pristinella jenkinae	0	0	0	0
Probezzia	0	0	0	0
Procambarus	2	0	2	0
Procladius	0	0	0	0
Procladius (holotanypus)	0	0	0	0
Procloeon viridocularis	0	0	0	0
Progomphus	0	0	0	0
Progomphus obscurus	0	0	0	0
Promoresia tardella	0	0	0	0
Prostoma rubrum	0	2	0	0
Psammoryctides convolutus	0	0	0	0
Pseudochironomus	0	0	0	2
Pseudocloeon	0	0	0	0
Psychodidae	0	0	0	0
Pycnopsyche	1	0	0	0
Pyralidae	0	0	0	0
Pyrgophorus platyrachis	0	0	0	0
Ranatra kirkaldyi	0	0	0	0
Rhagovelia	0	0	0	0
Rheocricotopus	0	0	0	0
Rheocricotopus robacki	2	2	1	0
Rheocricotopus tuberculatus	0	0	0	0
Rheotanytarsus	0	0	0	0
Rheotanytarsus distinctissimus grp.	0	9	2	0
Rheotanytarsus exiguus	0	0	0	12
Rheotanytarsus exiguus grp.	6	5	11	0
Rheotanytarsus pellucidus	0	0	0	0
Scirtes	0	0	0	0
Scirtidae	0	0	0	0
Serratella deficiens	0	0	0	0
Sialis	0	0	0	0
Silvius	0	0	0	0

As Calculated / STORET station ->	31020040	26011020	20030456	33010054
Sample date ->	2/4/1997	2/18/1997	7/2/1997	8/12/1997
	SampleID	SampleID	SampleID	SampleID
	12092/BenthID	12224/BenthID	12401/BenthID	12436/BenthID
Taxon Name / SampleID/BenID ->	12201(#counted)	12340(#counted)	12463(#counted)	12486(#counted)
Simuliidae	0	0	0	2
Simulium	6	0	4	0
Slavina appendiculata	0	0	0	0
Somatogyrus walkerianus	0	0	0	0
Sperchon	0	0	1	0
Sperchonopsis	0	0	0	1
Sperchopsis	0	0	0	0
Sphaeriidae	0	0	0	0
Sphaeriidae(mollusca)	0	0	0	0
Sphaeroma	0	0	0	0
Sphaeromias	0	0	0	0
Spirosperma	0	0	0	0
Spirosperma ferox	0	0	0	0
Stelechomyia perpulchra	0	0	0	1
Stempellina	0	0	0	1
Stempellina sp. a epler	0	0	0	0
Stempellinella	1	0	0	0
Stenacron	0	0	0	0
Stenacron floridense	0	0	0	0
Stenacron interpunctatum	0	0	0	0
Stenelmis	3	3	5	0
Stenelmis decorata	0	0	0	19
Stenelmis hungerfordi	0	0	0	0
Stenochironomus	9	0	1	0
Stenonema	0	0	0	1
Stenonema exiguum	0	1	0	0
Stenonema smithae	13	0	6	0
Stratiomyidae	0	0	0	0
Stylaria lacustris	0	1	0	0
Synorthocladius	0	0	0	0
Tabanus	0	0	0	0
Taeniopteryx lita	0	0	0	0
Tanytarsus	0	0	0	0
Tanytarsus sp. a epler	0	0	0	0
Tanytarsus sp. c epler	1	0	0	0
Tanytarsus sp. d epler	0	0	0	2
Tanytarsus sp. e epler	0	0	0	0
Tanytarsus sp. g epler	0	0	0	0
Tanytarsus sp. l epler	1	0	4	0
Tanytarsus sp. m epler	0	4	0	0
Tanytarsus sp. o epler	0	0	0	1
Tanytarsus sp. r epler	0	0	0	0
Tanytarsus sp. s epler	0	0	1	0
Tanytarsus sp. t epler	0	0	0	0
Tanytarsus sp. u epler	0	0	0	0
Taphromysis bowmani	0	0	0	0

As Calculated / STORET station ->	31020040	26011020	20030456	33010054
Sample date ->	2/4/1997	2/18/1997	7/2/1997	8/12/1997
	SampleID 12092/BenthID	SampleID 12224/BenthID	SampleID 12401/BenthID	SampleID 12436/BenthID
Taxon Name / SampleID/BenID ->	12201(#counted)	12340(#counted)	12463(#counted)	12486(#counted)
Thienemanniella	0	0	0	0
Thienemanniella lobapodema	0	0	0	0
Thienemanniella similis	0	0	0	0
Thienemanniella sp. a epler	0	0	1	0
Thienemannimyia grp.	0	0	1	1
Tipula	0	0	0	0
Tipulidae	0	0	0	0
Torrenticola	0	0	0	0
Triaenodes	0	0	0	0
Triaenodes ignitus	0	0	0	0
Triaenodes perna	0	0	0	0
Tribelos	0	0	0	0
Tribelos atrum	0	0	0	0
Tribelos fuscicornis	0	0	0	0
Tribelos jucundum	1	2	1	0
Tricorythodes albilineatus	0	0	0	0
Tubificidae	0	0	0	0
Turbellaria	0	0	0	0
Tvetenia	0	0	0	0
Tvetenia discoloripes grp.	2	0	0	0
Unionicola	0	0	0	0
Unniella multivirga	0	0	0	0
Veliidae	0	0	0	0
Xenochironomus xenolabis	0	0	0	0
Xestochironomus	0	0	0	0
Xylotopus par	0	0	0	0
Zygoptera	0	0	0	0

As Calculated / STORET station ->	21010018	26010972	22020062	31020040
Sample date ->	7/17/1997	9/30/1997	8/12/1997	2/10/1998
	SampleID	SampleID	SampleID	SampleID
	12450/BenthID	12600/BenthID	12609/BenthID	13475/BenthID
Taxon Name / SampleID/BenID ->	12500(#counted)	12548(#counted)	12557(#counted)	12867(#counted)
Ablabesmyia (karelia) grp.	0	0	0	0
Ablabesmyia hauberi	0	0	0	0
Ablabesmyia mallochi	2	2	0	1
Ablabesmyia rhamphe grp.	0	2	1	0
Acentrella parvula	0	0	0	0
Acerpenna pygmaea	0	4	0	0
Acroneuria	0	0	0	18
Acroneuria abnormis	0	0	0	0
Acroneuria arenosa	0	0	0	0
Acroneuria arenosa/evoluta	0	0	0	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	0	0	0	0
Alluaudomyia	0	0	0	0
Amnicola	0	0	0	0
Amnicola dalli	0	0	0	0
Amnicola dalli johnsoni	0	0	0	0
Amphipoda	0	0	0	0
Ancylidae	0	0	0	0
Ancyronyx	0	0	0	0
Ancyronyx variegatus	0	0	0	1
Anisocentropus pyraloides	0	0	0	0
Anopheles	0	0	0	0
Apsectrotanypus johnsoni	0	0	0	0
Argia	0	0	0	0
Argia fumipennis	0	0	0	0
Argia moesta	0	0	0	0
Argia sedula	0	0	0	0
Argia tibialis	0	0	0	0
Arrenurus	0	0	0	0
Arrenurus problecornis	0	0	0	0
Astacidae	0	0	0	0
Atherix	0	0	0	0
Atractides	0	0	0	0
Atrichopogon	0	0	0	0
Aulodrilus pigueti	0	1	0	0
Aulodrilus pluriseta	0	1	0	0
Baetidae	0	0	0	0
Baetis	0	0	0	0
Baetis intercalaris	0	0	0	0
Baetisca rogersi	0	0	0	0
Beardius truncatus	0	0	0	0
Belostoma	0	0	0	0
Belostomatidae	1	0	0	0
Bivalvia	0	0	0	0
Bourletiella	0	0	0	0
Boyeria vinosa	0	0	0	0
Brachycentrus	0	0	0	0
Brachycentrus chelatus	0	0	0	0
Brachycentrus numerosus	0	0	0	0

As Calculated / STORET station ->	21010018	26010972	22020062	31020040
Sample date ->	7/17/1997	9/30/1997	8/12/1997	2/10/1998
	SampleID	SampleID	SampleID	SampleID
	12450/BenthID	12600/BenthID	12609/BenthID	13475/BenthID
Taxon Name / SampleID/BenID ->	12500(#counted)	12548(#counted)	12557(#counted)	12867(#counted)
Brachycercus maculatus	0	0	0	0
Caecidotea	0	0	0	0
Caecidotea racovitzai	0	0	0	0
Caenis	0	1	0	1
Caenis diminuta	0	0	0	0
Caenis hilaris	0	0	0	0
Callibaetis floridanus	0	0	0	0
Calopteryx	0	0	0	0
Calopteryx maculata	0	0	0	0
Cambaridae	0	0	0	0
Campeloma	0	0	0	0
Campeloma limum	0	0	0	0
Cassidinidea ovalis	0	0	0	0
Cecidomyiidae	0	0	0	0
Ceratopogonidae	0	0	0	0
Cernotina	1	0	0	0
Chaoborus	0	0	0	0
Chaoborus albatus	0	0	0	0
Chauliodes	0	0	0	0
Chelifera	0	0	0	0
Cheumatopsyche	33	0	0	0
Chimarra	5	1	0	0
Chironomus	0	1	0	0
Choroterpes basalis	0	0	0	0
Choroterpes hubbelli	0	0	0	0
Cladotanytarsus	0	0	0	0
Cladotanytarsus cf. daviesi	0	0	0	0
Cladotanytarsus sp. i epler	0	0	0	0
Clathrosperchon	0	0	1	0
Climacea areolaris	0	0	0	0
Clinotanypus	0	0	0	0
Coelotanypus	0	0	0	0
Coelotanypus scapularis	0	0	0	0
Coenagrionidae	0	0	0	0
Collembola	0	0	0	0
Conchapelopia	0	0	2	0
Corbicula fluminea	0	0	0	0
Corduliidae	0	0	0	0
Corydalus	0	0	0	1
Corydalus cornuta	0	0	0	0
Corydalus cornutus	1	0	0	0
Corynoneura	0	0	0	0
Corynoneura sp. b epler	0	0	3	0
Corynoneura sp. c epler	0	0	0	0
Corynoneura taris	0	0	0	0

As Calculated / STORET station ->	21010018	26010972	22020062	31020040
Sample date ->	7/17/1997	9/30/1997	8/12/1997	2/10/1998
	SampleID	SampleID	SampleID	SampleID
	12450/BenthID	12600/BenthID	12609/BenthID	13475/BenthID
Taxon Name / SampleID/BenID ->	12500(#counted)	12548(#counted)	12557(#counted)	12867(#counted)
Crangonyx	4	0	0	0
Cricotopus	0	0	0	0
Cricotopus bicinctus	0	0	0	0
Cricotopus bicinctus grp.	0	0	0	0
Cricotopus or orthocladius	0	0	0	0
Cryptochironomus	0	0	1	0
Cryptotendipes	0	0	0	0
Curculionidae	0	0	0	0
Cyrnellus fraternus	0	0	0	0
Demicryptochironomus	0	0	0	0
Dero digitata	0	0	0	0
Dero digitata complex	0	0	0	0
Dero lodeni	0	0	0	0
Dero pectinata	0	0	0	0
Dero trifida	0	0	0	0
Dero vaga	0	0	0	0
Dicrotendipes	0	0	0	0
Dicrotendipes modestus	0	0	0	0
Dicrotendipes neomodestus	0	0	0	0
Dicrotendipes simpsoni	0	0	0	0
Dicrotendipes sp. a epler	0	0	0	0
Dineutus	0	0	1	0
Dineutus discolor	0	0	0	1
Dineutus serrulatus	0	0	0	0
Diplectrona modesta	0	0	0	0
Dixa	0	0	0	0
Dixella	0	0	0	0
Djalmabatista pulcher	0	1	0	0
Dolichopodidae	0	0	0	0
Dromogomphus armatus	0	0	0	0
Dromogomphus spinosus	0	0	0	0
Dryopidae	0	0	0	0
Dubiraphia	0	2	1	0
Dubiraphia quadrinotata	0	0	0	0
Dubiraphia vittata	0	0	0	0
Dugesia	0	0	0	0
Dugesia tigrina	0	0	0	0
Eclipidrilus	0	0	1	4
Eclipidrilus palustris	0	4	0	0
Ectopria	0	0	0	0
Elimia	0	0	0	0
Elimia floridensis	0	0	0	0
Empididae	0	0	0	0
Enallagma	0	4	0	0

As Calculated / STORET station ->	21010018	26010972	22020062	31020040
Sample date ->	7/17/1997	9/30/1997	8/12/1997	2/10/1998
	SampleID	SampleID	SampleID	SampleID
	12450/BenthID	12600/BenthID	12609/BenthID	13475/BenthID
Taxon Name / SampleID/BenID ->	12500(#counted)	12548(#counted)	12557(#counted)	12867(#counted)
Enallagma cardenium	0	0	0	0
Enchytraeidae	0	7	32	3
Endotribelos hesperium	0	0	0	0
Enochrus	0	0	0	0
Ephemerellidae	0	0	0	0
Ephydridae	0	0	0	0
Epitheca	0	0	0	0
Epitheca princeps regina	0	0	0	0
Eurylophella doris	0	0	0	0
Eurylophella temporalis	0	0	0	0
Ferrissia	0	2	0	0
Gammaridae	0	0	0	0
Gammarus	0	0	0	0
Gammarus tigrinus	0	0	0	0
Gastropoda	0	0	0	0
Geayia	0	0	0	0
Gerridae	0	0	0	0
Gloiobdella elongata	0	0	0	0
Goeldichironomus fluctuans	0	0	0	0
Gomphidae	0	0	0	0
Gomphus	0	0	0	0
Gomphus minutus	0	0	0	0
Gonielmis	0	0	0	0
Gonielmis dietrichi	0	0	4	0
Grandidierella bonnieroides	0	0	0	0
Gyretes iricolor	0	0	0	0
Haber speciosus	0	0	0	0
Hagenius brevistylus	0	0	0	0
Hebetancylus excentricus	0	0	0	0
Helobdella stagnalis	0	0	0	0
Helobdella triserialis	0	0	0	0
Helopelopia	0	0	0	0
Hemerodromia	5	4	1	2
Hemiptera	0	0	0	0
Heptageniidae	0	0	0	0
Hetaerina	0	0	0	0
Hetaerina titia	0	0	0	0
Heteroplectron americanum	0	0	0	0
Hexagenia	0	0	0	0
Hexagenia bilineata	0	0	0	0
Hexagenia limbata	0	0	0	0
Hexagenia munda orlando	0	0	0	0
Hexatoma	0	0	0	0
Hyalella azteca	0	5	0	0
Hydra	0	0	0	0
Hydrachna	0	0	0	0
Hydraena marginicollis	0	0	0	0
Hydraenidae	0	0	0	0

As Calculated / STORET station ->	21010018	26010972	22020062	31020040
Sample date ->	7/17/1997	9/30/1997	8/12/1997	2/10/1998
	SampleID	SampleID	SampleID	SampleID
	12450/BenthID	12600/BenthID	12609/BenthID	13475/BenthID
Taxon Name / SampleID/BenID ->	12500(#counted)	12548(#counted)	12557(#counted)	12867(#counted)
Hydrobiidae	0	0	0	0
Hydrodroma	0	0	0	0
Hydrophilidae	0	1	0	0
Hydroporus	0	0	0	0
Hydropsyche	4	0	4	5
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	0	0	0
Hydroptila	0	0	0	0
Hydroptilidae	0	0	0	0
Hygrobates	0	0	0	0
Hygrotus	2	0	0	0
Ischnura	0	0	0	0
Ischnura hastata	0	0	0	0
Isonychia	0	0	0	0
Isoperla	0	0	0	2
Isopoda	0	0	0	0
Isotomurus	0	0	0	0
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	0	0	0
Krendowskia	0	0	1	0
Labiobaetis	0	0	0	0
Labrundinia	0	0	0	0
Labrundinia becki	0	0	0	0
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	1	2	0	0
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	0
Lauterborniella agrayloides	0	0	0	0
Lebertia	0	0	0	0
Lepidoptera	0	0	0	0
Leptoceridae	0	0	0	0
Leptophlebia	0	0	0	0
Leptophlebiidae	0	2	2	0
Leuctra	0	0	1	0
Libellulidae	0	0	0	0
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	0	1	0	0
Limnophila	0	0	0	0
Limonia	0	3	0	0
Liodessus	0	0	0	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	0	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	0	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0	0	0	0

As Calculated / STORET station ->	21010018	26010972	22020062	31020040
Sample date ->	7/17/1997	9/30/1997	8/12/1997	2/10/1998
	SampleID	SampleID	SampleID	SampleID
	12450/BenthID	12600/BenthID	12609/BenthID	13475/BenthID
Taxon Name / SampleID/BenID ->	12500(#counted)	12548(#counted)	12557(#counted)	12867(#counted)
Lype diversa	0	0	0	0
Maccaffertium	0	0	0	0
Maccaffertium smithae	0	0	0	0
Macromia	0	1	0	0
Macromia taeniolata	0	0	0	0
Macromiidae	0	0	0	0
Macronychus glabratus	0	0	0	0
Macrostemum carolina	0	0	0	0
Mayatrichia	0	0	0	0
Mayatrichia ayama	0	0	0	0
Meropelopia	0	0	0	0
Mesosmittia	0	0	0	0
Metrobates	0	0	0	0
Micrasema	0	0	0	0
Micrasema rusticum	0	0	0	0
Micrasema wataga	0	0	0	0
Microcylloepus	0	0	0	0
Microcylloepus pusillus	6	10	1	0
Micromenetus	0	0	0	0
Micromenetus dilatatus	0	0	0	0
Microtendipes pedellus	0	0	0	0
Microtendipes pedellus grp.	0	0	2	1
Microtendipes rydalensis	0	0	0	0
Microtendipes rydalensis grp.	0	0	0	1
Mideopsis	0	0	0	0
Molanna	0	0	0	0
Mooreobdella	0	0	0	0
Mooreobdella tetragon	0	0	0	0
Muscidae	0	0	0	0
Naididae	0	0	0	0
Nais behningi	0	0	0	0
Nais communis	0	0	0	1
Nais communis complex	0	0	0	0
Nais pardalis	0	0	0	0
Nais simplex	0	0	0	0
Nais variabilis	0	0	0	0
Nanocladius	0	0	0	0
Nectopsyche	4	0	1	0
Nectopsyche candida	0	0	0	0
Nectopsyche exquisita	0	0	0	0
Nectopsyche pavida	0	0	0	0
Nemertea	0	0	0	0
Neoperla	0	0	0	0
Neoperla clymene	0	0	0	0
Neoporus	0	0	0	0
Neotrichia	2	5	0	0
Neumania	0	0	0	0

As Calculated / STORET station ->	21010018	26010972	22020062	31020040
Sample date ->	7/17/1997	9/30/1997	8/12/1997	2/10/1998
	SampleID	SampleID	SampleID	SampleID
	12450/BenthID	12600/BenthID	12609/BenthID	13475/BenthID
Taxon Name / SampleID/BenID ->	12500(#counted)	12548(#counted)	12557(#counted)	12867(#counted)
Neumania distincta	0	0	0	0
Neureclipsis	0	0	0	0
Neureclipsis crepuscularis	0	0	0	0
Neurocordulia	0	0	0	0
Neurocordulia alabamensis	0	0	0	0
Neurocordulia virginiensis	0	0	0	0
Nigronia	0	0	0	0
Nigronia fasciatus	0	0	0	0
Nigronia serricornis	0	0	0	0
Nilotanypus	0	0	0	0
Nilothauma	0	0	0	0
Notogillia wetherbyi	0	0	0	0
Nyctiophylax	0	0	0	0
Odonata	0	0	0	0
Odontomyia	0	0	0	0
Oecetis	0	5	0	0
Oecetis cinerascens	0	0	0	0
Oecetis georgia	0	0	0	0
Oecetis inconspicua cmplx.	0	0	0	0
Oecetis morsei or sphyra	0	0	0	0
Oecetis parva	0	0	0	0
Oecetis persimilis	0	0	0	0
Oecetis sp. a floyd	0	0	0	0
Oecetis sp. e floyd	0	0	0	0
Ora/scirtes	0	0	0	0
Oribatei	1	0	0	1
Orthocladiinae	0	0	0	0
Orthocladiinae gen. c epler	0	0	0	0
Orthocladiinae gen. f epler	0	0	0	0
Orthocladius annectens	0	0	0	0
Orthotrichia	0	0	0	0
Oxyethira	0	0	0	0
Pachydiplax longipennis	0	0	0	0
Pagastiella	0	0	0	0
Palaemonetes	0	0	0	0
Palaemonetes kadiakensis	0	0	0	0
Palaemonetes paludosus	0	0	0	0
Palpomyia/bezzia grp.	0	1	0	0
Paracladopelma	0	0	0	0
Paracladopelma loganae	0	0	0	0
Paracladopelma undine	0	0	0	0
Paragnetina	0	0	0	0
Paragnetina fumosa	0	0	0	0

As Calculated / STORET station ->	21010018	26010972	22020062	31020040
Sample date ->	7/17/1997	9/30/1997	8/12/1997	2/10/1998
	SampleID	SampleID	SampleID	SampleID
	12450/BenthID	12600/BenthID	12609/BenthID	13475/BenthID
Taxon Name / SampleID/BenID ->	12500(#counted)	12548(#counted)	12557(#counted)	12867(#counted)
Parakiefferiella	0	0	0	0
Paralauterborniella nigrohalterale	0	0	0	0
Paraleptophlebia volitans	0	0	0	0
Parametriocnemus	2	0	0	0
Parametriocnemus sp. f epler	0	0	14	5
Paranyctiophylax	0	0	0	0
Paraplea	0	0	0	0
Paraponyx	0	0	0	0
Paratanytarsus sp. a epler	0	0	0	0
Paratanytarsus sp. c epler	0	0	0	0
Paratendipes subaequalis	0	0	0	0
Pelecypoda	0	0	0	0
Pelonomus obscurus	0	0	0	0
Peltodytes	0	0	0	0
Pentaneura inconspicua	0	0	3	0
Perlesta	0	0	0	0
Perlesta placida	0	0	0	0
Perlesta placida complex	0	0	0	0
Perlinella	0	0	0	0
Petrophila	0	0	0	0
Phaenopsectra obediens grp.	0	0	0	0
Phaenopsectra punctipes grp.	0	0	0	0
Phylocentropus	0	0	0	0
Physella	0	0	0	0
Physella cubensis	0	0	0	0
Piona	0	0	0	0
Pisidiidae	0	6	0	0
Pisidium	0	0	0	0
Planariidae	0	0	0	0
Planorbella duryi	0	0	0	0
Planorbella scalaris	0	0	0	0
Planorbidae	0	0	0	0
Platyhelminthes	0	0	0	0
Plecoptera	0	0	0	0
Plumulariidae	0	0	0	0
Polycentropodidae	0	0	0	0
Polycentropus	0	0	0	0
Polypedilum	0	0	0	0
Polypedilum aviceps	0	0	1	0
Polypedilum convictum grp.	19	6	3	1
Polypedilum fallax	0	1	0	0
Polypedilum flavum	0	0	0	0

As Calculated / STORET station ->	21010018	26010972	22020062	31020040
Sample date ->	7/17/1997	9/30/1997	8/12/1997	2/10/1998
	SampleID	SampleID	SampleID	SampleID
	12450/BenthID	12600/BenthID	12609/BenthID	13475/BenthID
Taxon Name / SampleID/BenID ->	12500(#counted)	12548(#counted)	12557(#counted)	12867(#counted)
Polypedilum halterale grp.	0	1	0	0
Polypedilum illinoense	0	0	0	0
Polypedilum illinoense grp.	0	0	0	0
Polypedilum scalaenum	0	0	0	0
Polypedilum scalaenum grp.	5	0	0	0
Polypedilum sp. a epler	0	0	0	0
Polypedilum tritum	0	0	0	0
Pomacea paludosa	0	0	0	0
Pristina aequiseta	0	0	0	0
Pristina synclites	0	2	0	0
Pristinella jenkinae	0	0	0	0
Probezzia	0	0	0	1
Procambarus	0	0	0	9
Procladius	0	0	0	0
Procladius (holotanypus)	0	0	0	0
Procloeon viridocularis	0	0	0	0
Progomphus	0	0	0	0
Progomphus obscurus	0	0	0	0
Promoresia tardella	0	0	0	0
Prostoma rubrum	0	0	0	0
Psammoryctides convolutus	0	0	0	0
Pseudochironomus	0	0	0	1
Pseudocloeon	0	0	0	0
Psychodidae	0	0	0	0
Pycnopsyche	0	0	0	0
Pyralidae	0	0	0	0
Pyrgophorus platyrachis	0	0	0	0
Ranatra kirkaldyi	0	0	0	0
Rhagovelia	0	0	1	0
Rheocricotopus	0	0	0	0
Rheocricotopus robacki	2	0	3	2
Rheocricotopus tuberculatus	0	0	0	1
Rheotanytarsus	0	0	0	0
Rheotanytarsus distinctissimus grp.	3	0	0	0
Rheotanytarsus exiguus	0	0	0	0
Rheotanytarsus exiguus grp.	4	3	5	0
Rheotanytarsus pellucidus	0	0	0	0
Scirtes	0	0	0	0
Scirtidae	0	0	0	0
Serratella deficiens	0	0	0	0
Sialis	0	0	0	0
Silvius	0	0	0	0

As Calculated / STORET station ->	21010018	26010972	22020062	31020040
Sample date ->	7/17/1997	9/30/1997	8/12/1997	2/10/1998
	SampleID	SampleID	SampleID	SampleID
	12450/BenthID	12600/BenthID	12609/BenthID	13475/BenthID
Taxon Name / SampleID/BenID ->	12500(#counted)	12548(#counted)	12557(#counted)	12867(#counted)
Simuliidae	0	0	6	0
Simulium	2	5	0	60
Slavina appendiculata	0	0	0	0
Somatogyrus walkerianus	0	0	0	0
Sperchon	0	0	0	0
Sperchonopsis	0	0	0	0
Sperchopsis	0	0	0	0
Sphaeriidae	0	0	0	0
Sphaeriidae(mollusca)	0	0	0	0
Sphaeroma	0	0	0	0
Sphaeromias	0	0	0	0
Spirosperma	0	0	0	0
Spirosperma ferox	0	0	0	0
Stelechomyia perpulchra	0	0	0	0
Stempellina	0	0	0	0
Stempellina sp. a epler	0	0	0	0
Stempellinella	0	0	1	0
Stenacron	0	0	0	0
Stenacron floridense	0	0	0	0
Stenacron interpunctatum	0	0	0	0
Stenelmis	1	0	4	5
Stenelmis decorata	0	0	0	0
Stenelmis hungerfordi	0	0	0	0
Stenochironomus	2	8	2	2
Stenonema	0	0	1	0
Stenonema exiguum	0	0	0	0
Stenonema smithae	1	0	0	3
Stratiomyidae	0	1	0	0
Stylaria lacustris	0	0	0	0
Synorthocladius	0	0	0	0
Tabanus	0	0	0	0
Taeniopteryx lita	0	0	0	0
Tanytarsus	0	0	0	0
Tanytarsus sp. a epler	0	0	0	0
Tanytarsus sp. c epler	0	0	0	0
Tanytarsus sp. d epler	0	0	0	0
Tanytarsus sp. e epler	0	0	0	0
Tanytarsus sp. g epler	0	0	0	0
Tanytarsus sp. l epler	0	0	0	0
Tanytarsus sp. m epler	0	0	0	0
Tanytarsus sp. o epler	0	1	0	0
Tanytarsus sp. r epler	0	1	0	1
Tanytarsus sp. s epler	0	0	0	0
Tanytarsus sp. t epler	0	0	0	0
Tanytarsus sp. u epler	0	0	0	0
Taphromysis bowmani	0	0	0	0

As Calculated / STORET station ->	21010018	26010972	22020062	31020040
Sample date ->	7/17/1997	9/30/1997	8/12/1997	2/10/1998
	SampleID	SampleID	SampleID	SampleID
	12450/BenthID	12600/BenthID	12609/BenthID	13475/BenthID
Taxon Name / SampleID/BenID ->	12500(#counted)	12548(#counted)	12557(#counted)	12867(#counted)
Thienemanniella	0	0	0	0
Thienemanniella lobapodema	0	0	0	0
Thienemanniella similis	0	0	0	0
Thienemanniella sp. a epler	0	0	1	0
Thienemannimyia grp.	0	0	0	7
Tipula	0	0	0	0
Tipulidae	0	0	0	0
Torrenticola	0	0	0	0
Triaenodes	2	0	0	0
Triaenodes ignitus	0	0	0	0
Triaenodes perna	0	0	0	0
Tribelos	0	0	0	0
Tribelos atrum	1	0	0	0
Tribelos fuscicornis	0	0	0	0
Tribelos jucundum	0	1	0	0
Tricorythodes albilineatus	0	0	0	0
Tubificidae	0	0	0	0
Turbellaria	0	0	0	0
Tvetenia	9	0	0	0
Tvetenia discoloripes grp.	0	0	0	0
Unionicola	0	0	0	0
Unniella multivirga	0	0	0	0
Veliidae	0	0	0	0
Xenochironomus xenolabis	0	0	0	0
Xestochironomus	0	1	0	0
Xylotopus par	0	0	0	0
Zygoptera	1	0	0	0

As Calculated / STORET station ->	20030414	33040064	20030456	20020012
Sample date ->	3/10/1998	7/1/1998	2/12/1998	8/11/1998
	SampleID	SampleID	SampleID	SampleID
	13535/BenthID	14213/BenthID	14231/BenthID	14930/BenthID
Taxon Name / SampleID/BenID ->	12898(#counted)	13118(#counted)	13136(#counted)	13379(#counted)
Ablabesmyia (karelia) grp.	0	0	0	0
Ablabesmyia hauberi	0	0	0	0
Ablabesmyia mallochi	0	0	0	0
Ablabesmyia rhamphe grp.	0	0	0	0
Acentrella parvula	0	0	0	0
Acerpenna pygmaea	0	0	0	0
Acroneuria	0	0	0	0
Acroneuria abnormis	0	0	0	0
Acroneuria arenosa	0	0	0	0
Acroneuria arenosa/evoluta	0	0	0	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	0	0	0	0
Alluaudomyia	0	0	0	0
Amnicola	0	0	0	0
Amnicola dalli	0	0	0	0
Amnicola dalli johnsoni	0	0	0	0
Amphipoda	0	2	0	0
Ancylidae	1	0	0	2
Ancyronyx	0	0	0	0
Ancyronyx variegatus	0	1	0	0
Anisocentropus pyraloides	0	1	0	0
Anopheles	0	0	0	0
Apsectrotanypus johnsoni	0	0	0	0
Argia	3	2	0	0
Argia fumipennis	0	0	0	0
Argia moesta	0	0	0	0
Argia sedula	0	0	0	0
Argia tibialis	0	0	3	0
Arrenurus	0	0	0	0
Arrenurus problecornis	0	0	0	0
Astacidae	0	0	0	0
Atherix	0	0	0	0
Atractides	0	0	0	0
Atrichopogon	0	0	0	0
Aulodrilus pigueti	0	0	0	0
Aulodrilus pluriseta	0	0	0	0
Baetidae	0	0	0	0
Baetis	0	0	0	5
Baetis intercalaris	0	0	0	0
Baetisca rogersi	0	0	0	0
Beardius truncatus	0	0	0	0
Belostoma	0	0	0	0
Belostomatidae	0	0	0	0
Bivalvia	0	0	0	0
Bourletiella	0	0	0	0
Boyeria vinosa	0	1	4	0
Brachycentrus	0	0	0	0
Brachycentrus chelatus	0	0	0	0
Brachycentrus numerosus	0	0	0	0

As Calculated / STORET station ->	20030414	33040064	20030456	20020012
Sample date ->	3/10/1998	7/1/1998	2/12/1998	8/11/1998
	SampleID	SampleID	SampleID	SampleID
	13535/BenthID	14213/BenthID	14231/BenthID	14930/BenthID
Taxon Name / SampleID/BenID ->	12898(#counted)	13118(#counted)	13136(#counted)	13379(#counted)
Brachycercus maculatus	0	0	0	0
Caecidotea	0	0	0	0
Caecidotea racovitzai	0	0	0	0
Caenis	0	0	0	0
Caenis diminuta	0	0	0	0
Caenis hilaris	0	0	0	0
Callibaetis floridanus	0	0	0	0
Calopteryx	0	0	0	0
Calopteryx maculata	1	0	0	0
Cambaridae	1	0	0	0
Campeloma	0	0	0	0
Campeloma limum	0	0	0	0
Cassidinidea ovalis	0	0	0	0
Cecidomyiidae	0	0	0	0
Ceratopogonidae	0	2	0	0
Cernotina	0	0	1	0
Chaoborus	0	0	0	0
Chaoborus albatus	0	0	0	0
Chauliodes	0	0	0	0
Chelifera	0	0	0	0
Cheumatopsyche	4	2	0	7
Chimarra	0	11	15	0
Chironomus	0	0	0	0
Choroterpes basalis	0	0	0	0
Choroterpes hubbelli	0	0	0	0
Cladotanytarsus	2	0	0	0
Cladotanytarsus cf. daviesi	0	0	0	0
Cladotanytarsus sp. i epler	0	0	0	0
Clathrosperchon	0	0	0	0
Climacea areolaris	0	0	0	0
Clinotanypus	0	0	0	0
Coelotanypus	0	0	0	0
Coelotanypus scapularis	0	0	0	0
Coenagrionidae	0	0	0	0
Collembola	0	0	0	0
Conchapelopia	0	0	1	0
Corbicula fluminea	0	0	0	16
Corduliidae	0	0	0	0
Corydalus	0	0	0	0
Corydalus cornuta	0	0	0	0
Corydalus cornutus	0	0	0	0
Corynoneura	0	0	0	0
Corynoneura sp. b epler	0	0	0	0
Corynoneura sp. c epler	0	0	0	0
Corynoneura taris	0	0	0	0

As Calculated / STORET station ->	20030414	33040064	20030456	20020012
Sample date ->	3/10/1998	7/1/1998	2/12/1998	8/11/1998
	SampleID	SampleID	SampleID	SampleID
	13535/BenthID	14213/BenthID	14231/BenthID	14930/BenthID
Taxon Name / SampleID/BenID ->	12898(#counted)	13118(#counted)	13136(#counted)	13379(#counted)
Crangonyx	1	0	2	4
Cricotopus	0	0	0	0
Cricotopus bicinctus	0	0	0	1
Cricotopus bicinctus grp.	0	0	0	0
Cricotopus or orthocladius	1	0	0	0
Cryptochironomus	0	0	0	0
Cryptotendipes	0	0	0	1
Curculionidae	0	0	0	0
Cyrnellus fraternus	0	0	0	0
Demicryptochironomus	0	1	0	0
Dero digitata	0	0	0	0
Dero digitata complex	0	0	0	0
Dero lodeni	0	0	0	0
Dero pectinata	0	0	0	0
Dero trifida	0	0	0	0
Dero vaga	0	0	0	0
Dicrotendipes	0	0	0	0
Dicrotendipes modestus	0	0	0	0
Dicrotendipes neomodestus	0	0	0	0
Dicrotendipes simpsoni	0	0	0	0
Dicrotendipes sp. a epler	0	0	0	0
Dineutus	0	0	0	0
Dineutus discolor	0	0	0	0
Dineutus serrulatus	0	0	0	0
Diplectrona modesta	0	1	0	0
Dixa	0	0	0	0
Dixella	0	0	0	0
Djalmabatista pulcher	1	0	0	0
Dolichopodidae	0	0	0	0
Dromogomphus armatus	0	0	0	0
Dromogomphus spinosus	0	0	0	0
Dryopidae	0	0	0	0
Dubiraphia	0	0	0	0
Dubiraphia quadrinotata	0	0	0	0
Dubiraphia vittata	0	0	0	0
Dugesia	0	0	0	0
Dugesia tigrina	0	0	0	0
Eclipidrilus	0	0	0	0
Eclipidrilus palustris	0	0	0	0
Ectopria	0	0	0	0
Elimia	0	0	0	0
Elimia floridensis	0	0	0	0
Empididae	0	0	0	0
Enallagma	0	0	0	0

As Calculated / STORET station ->	20030414	33040064	20030456	20020012
Sample date ->	3/10/1998	7/1/1998	2/12/1998	8/11/1998
	SampleID	SampleID	SampleID	SampleID
	13535/BenthID	14213/BenthID	14231/BenthID	14930/BenthID
Taxon Name / SampleID/BenID ->	12898(#counted)	13118(#counted)	13136(#counted)	13379(#counted)
Enallagma cardenium	0	0	0	0
Enchytraeidae	0	0	0	2
Endotribelos hesperium	0	0	0	0
Enochrus	0	0	0	0
Ephemerellidae	0	0	0	0
Ephydridae	0	0	0	0
Epitheca	0	0	0	0
Epitheca princeps regina	0	0	0	0
Eurylophella doris	0	5	0	0
Eurylophella temporalis	0	0	0	0
Ferrissia	0	0	0	0
Gammaridae	0	0	0	0
Gammarus	0	0	0	3
Gammarus tigrinus	0	0	0	0
Gastropoda	0	0	0	0
Geayia	0	0	0	0
Gerridae	0	0	0	0
Gloiobdella elongata	0	0	0	0
Goeldichironomus fluctuans	0	0	0	0
Gomphidae	0	1	0	2
Gomphus	0	0	0	0
Gomphus minutus	0	0	0	0
Gonielmis	0	0	0	0
Gonielmis dietrichi	0	0	0	0
Grandidierella bonnieroides	0	0	0	0
Gyretes iricolor	0	0	0	0
Haber speciosus	1	0	0	5
Hagenius brevistylus	0	0	0	0
Hebetancylus excentricus	0	0	0	0
Helobdella stagnalis	0	0	0	0
Helobdella triserialis	0	0	0	0
Helopelopia	0	0	0	0
Hemerodromia	3	0	14	2
Hemiptera	0	0	0	0
Heptageniidae	0	1	0	0
Hetaerina	0	0	0	0
Hetaerina titia	0	0	0	0
Heteroplectron americanum	0	1	0	0
Hexagenia	0	0	0	0
Hexagenia bilineata	0	0	0	0
Hexagenia limbata	0	0	0	0
Hexagenia munda orlando	0	0	0	0
Hexatoma	0	0	0	0
Hyalella azteca	0	0	0	0
Hydra	0	0	0	0
Hydrachna	0	0	0	0
Hydraena marginicollis	0	0	0	0
Hydraenidae	0	0	0	0

As Calculated / STORET station ->	20030414	33040064	20030456	20020012
Sample date ->	3/10/1998	7/1/1998	2/12/1998	8/11/1998
	SampleID	SampleID	SampleID	SampleID
	13535/BenthID	14213/BenthID	14231/BenthID	14930/BenthID
Taxon Name / SampleID/BenID ->	12898(#counted)	13118(#counted)	13136(#counted)	13379(#counted)
Hydrobiidae	0	0	0	0
Hydrodroma	0	0	0	0
Hydrophilidae	0	0	0	0
Hydroporus	0	0	0	0
Hydropsyche	0	0	0	1
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	0	0	0
Hydroptila	0	0	0	20
Hydroptilidae	0	0	0	0
Hygrobates	0	0	0	0
Hygrotus	0	0	0	0
Ischnura	0	0	0	0
Ischnura hastata	0	0	0	0
Isonychia	0	0	0	0
Isoperla	0	0	0	0
Isopoda	0	0	0	0
Isotomurus	0	0	0	0
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	0	0	0
Krendowskia	0	0	0	0
Labiobaetis	0	0	0	8
Labrundinia	0	0	0	0
Labrundinia becki	0	0	0	0
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	1	0	0	0
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	0
Lauterborniella agrayloides	0	0	0	0
Lebertia	0	0	0	0
Lepidoptera	0	0	0	0
Leptoceridae	0	0	0	0
Leptophlebia	0	0	0	0
Leptophlebiidae	4	0	1	0
Leuctra	0	39	7	0
Libellulidae	0	0	0	0
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	0	0	0	4
Limnophila	1	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	0	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	0	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	0	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0	0	0	0

As Calculated / STORET station ->	20030414	33040064	20030456	20020012
Sample date ->	3/10/1998	7/1/1998	2/12/1998	8/11/1998
	SampleID	SampleID	SampleID	SampleID
	13535/BenthID	14213/BenthID	14231/BenthID	14930/BenthID
Taxon Name / SampleID/BenID ->	12898(#counted)	13118(#counted)	13136(#counted)	13379(#counted)
Lype diversa	0	0	1	1
Maccaffertium	0	0	0	0
Maccaffertium smithae	0	0	0	0
Macromia	0	0	0	0
Macromia taeniolata	0	0	0	0
Macromiidae	0	0	0	0
Macronychus glabratus	0	0	0	0
Macrostemum carolina	0	0	0	0
Mayatrichia	1	0	0	0
Mayatrichia ayama	0	0	0	0
Meropelopia	0	31	0	0
Mesosmittia	0	0	0	0
Metrobates	0	0	0	0
Micrasema	0	0	0	0
Micrasema rusticum	0	0	0	0
Micrasema wataga	1	0	0	0
Microcylloepus	0	0	0	0
Microcylloepus pusillus	1	0	2	2
Micromenetus	0	0	0	0
Micromenetus dilatatus	0	0	0	0
Microtendipes pedellus	0	0	0	0
Microtendipes pedellus grp.	1	10	0	0
Microtendipes rydalensis	0	0	0	0
Microtendipes rydalensis grp.	0	0	0	0
Mideopsis	0	0	0	0
Molanna	0	0	0	0
Mooreobdella	0	0	0	0
Mooreobdella tetragon	0	0	0	0
Muscidae	0	0	0	0
Naididae	0	1	0	0
Nais behningi	0	0	0	0
Nais communis	0	0	0	2
Nais communis complex	0	0	0	0
Nais pardalis	0	0	0	0
Nais simplex	1	0	0	0
Nais variabilis	0	0	0	0
Nanocladius	0	0	0	0
Nectopsyche	2	0	0	0
Nectopsyche candida	0	0	0	0
Nectopsyche exquisita	0	0	0	1
Nectopsyche pavida	0	0	0	0
Nemertea	0	0	0	0
Neoperla	5	0	3	0
Neoperla clymene	0	0	0	0
Neoporus	0	0	0	0
Neotrichia	7	0	0	1
Neumania	0	0	0	0

As Calculated / STORET station ->	20030414	33040064	20030456	20020012
Sample date ->	3/10/1998	7/1/1998	2/12/1998	8/11/1998
	SampleID	SampleID	SampleID	SampleID
	13535/BenthID	14213/BenthID	14231/BenthID	14930/BenthID
Taxon Name / SampleID/BenID ->	12898(#counted)	13118(#counted)	13136(#counted)	13379(#counted)
Neumania distincta	0	0	0	0
Neureclipsis	0	4	0	0
Neureclipsis crepuscularis	0	0	0	0
Neurocordulia	0	0	0	0
Neurocordulia alabamensis	0	0	0	0
Neurocordulia virginiensis	0	0	0	0
Nigronia	0	0	0	0
Nigronia fasciatus	0	0	0	0
Nigronia serricornis	0	2	0	0
Nilotanypus	0	0	0	0
Nilothauma	0	1	0	0
Notogillia wetherbyi	0	0	0	0
Nyctiophylax	0	0	0	0
Odonata	0	0	0	0
Odontomyia	0	0	0	0
Oecetis	0	0	0	0
Oecetis cinerascens	0	0	0	0
Oecetis georgia	3	0	4	0
Oecetis inconspicua cmplx.	0	0	0	0
Oecetis morsei or sphyra	0	0	0	0
Oecetis parva	0	0	0	0
Oecetis persimilis	0	0	0	0
Oecetis sp. a floyd	0	4	0	0
Oecetis sp. e floyd	0	0	0	0
Ora/scirtes	0	0	0	0
Oribatei	0	0	0	0
Orthocladiinae	0	6	1	0
Orthocladiinae gen. c epler	0	0	0	0
Orthocladiinae gen. f epler	0	0	0	0
Orthocladius annectens	18	0	0	0
Orthotrichia	0	0	0	0
Oxyethira	0	0	0	0
Pachydiplax longipennis	0	0	0	0
Pagastiella	0	0	0	0
Palaemonetes	0	0	0	0
Palaemonetes kadiakensis	0	0	0	0
Palaemonetes paludosus	0	0	0	0
Palpomyia/bezzia grp.	0	0	1	1
Paracladopelma	0	0	0	0
Paracladopelma loganae	0	0	0	0
Paracladopelma undine	0	0	0	0
Paragnetina	0	0	0	0
Paragnetina fumosa	0	0	0	0

As Calculated / STORET station ->	20030414	33040064	20030456	20020012
Sample date ->	3/10/1998	7/1/1998	2/12/1998	8/11/1998
	SampleID	SampleID	SampleID	SampleID
	13535/BenthID	14213/BenthID	14231/BenthID	14930/BenthID
Taxon Name / SampleID/BenID ->	12898(#counted)	13118(#counted)	13136(#counted)	13379(#counted)
Parakiefferiella	0	0	0	0
Paralauterborniella nigrohalterale	0	0	0	0
Paraleptophlebia volitans	0	0	0	0
Parametriocnemus	0	0	0	0
Parametriocnemus sp. f epler	9	0	8	0
Paranyctiophylax	0	0	0	0
Paraplea	0	0	0	0
Paraponyx	0	0	0	0
Paratanytarsus sp. a epler	0	0	0	0
Paratanytarsus sp. c epler	0	0	0	0
Paratendipes subaequalis	0	0	0	0
Pelecypoda	0	0	0	0
Pelonomus obscurus	0	0	0	0
Peltodytes	0	0	0	0
Pentaneura inconspicua	3	0	0	0
Perlesta	0	0	5	0
Perlesta placida	0	0	0	0
Perlesta placida complex	0	0	0	0
Perlinella	0	0	0	0
Petrophila	0	0	0	0
Phaenopsectra obediens grp.	0	0	0	0
Phaenopsectra punctipes grp.	0	0	0	0
Phylocentropus	0	0	0	0
Physella	0	0	0	0
Physella cubensis	0	0	0	0
Piona	0	0	0	0
Pisidiidae	0	0	0	0
Pisidium	0	0	0	0
Planariidae	0	0	0	0
Planorbella duryi	0	0	0	0
Planorbella scalaris	0	0	0	0
Planorbidae	0	0	0	1
Platyhelminthes	0	0	0	0
Plecoptera	0	0	0	0
Plumulariidae	0	0	0	0
Polycentropodidae	0	0	0	0
Polycentropus	1	0	0	0
Polypedilum	0	0	0	0
Polypedilum aviceps	0	0	1	0
Polypedilum convictum grp.	0	0	1	0
Polypedilum fallax	0	3	0	0
Polypedilum flavum	0	0	0	0

As Calculated / STORET station ->	20030414	33040064	20030456	20020012
Sample date ->	3/10/1998	7/1/1998	2/12/1998	8/11/1998
	SampleID	SampleID	SampleID	SampleID
	13535/BenthID	14213/BenthID	14231/BenthID	14930/BenthID
Taxon Name / SampleID/BenID ->	12898(#counted)	13118(#counted)	13136(#counted)	13379(#counted)
Polypedilum halterale grp.	4	0	0	0
Polypedilum illinoense	0	2	0	0
Polypedilum illinoense grp.	0	0	3	0
Polypedilum scalaenum	0	3	0	0
Polypedilum scalaenum grp.	0	0	0	0
Polypedilum sp. a epler	0	0	0	1
Polypedilum tritum	0	0	0	0
Pomacea paludosa	0	0	0	0
Pristina aequiseta	0	0	0	1
Pristina synclites	0	0	0	0
Pristinella jenkinae	0	0	0	0
Probezzia	5	0	0	0
Procambarus	0	0	1	0
Procladius	0	0	0	0
Procladius (holotanypus)	0	0	0	0
Procloeon viridocularis	0	0	0	0
Progomphus	0	0	0	0
Progomphus obscurus	0	0	0	0
Promoresia tardella	0	0	0	0
Prostoma rubrum	0	0	0	0
Psammoryctides convolutus	0	0	0	0
Pseudochironomus	0	0	0	0
Pseudocloeon	0	0	0	0
Psychodidae	0	0	0	0
Pycnopsyche	1	0	1	0
Pyralidae	0	0	0	0
Pyrgophorus platyrachis	0	0	0	0
Ranatra kirkaldyi	0	0	0	0
Rhagovelia	0	0	0	0
Rheocricotopus	0	0	0	0
Rheocricotopus robacki	2	0	0	0
Rheocricotopus tuberculatus	0	0	0	0
Rheotanytarsus	0	0	0	0
Rheotanytarsus distinctissimus grp.	1	0	1	2
Rheotanytarsus exiguus	0	7	0	0
Rheotanytarsus exiguus grp.	6	0	3	2
Rheotanytarsus pellucidus	0	0	0	0
Scirtes	0	0	0	0
Scirtidae	0	0	0	0
Serratella deficiens	0	0	0	0
Sialis	0	0	0	0
Silvius	0	0	0	0

As Calculated / STORET station ->	20030414	33040064	20030456	20020012
Sample date ->	3/10/1998	7/1/1998	2/12/1998	8/11/1998
	SampleID	SampleID	SampleID	SampleID
	13535/BenthID	14213/BenthID	14231/BenthID	14930/BenthID
Taxon Name / SampleID/BenID ->	12898(#counted)	13118(#counted)	13136(#counted)	13379(#counted)
Simuliidae	0	0	0	0
Simulium	4	0	17	22
Slavina appendiculata	0	0	0	0
Somatogyrus walkerianus	0	0	0	0
Sperchon	0	0	0	0
Sperchonopsis	0	0	0	0
Sperchopsis	0	0	0	0
Sphaeriidae	0	0	0	0
Sphaeriidae(mollusca)	0	0	0	0
Sphaeroma	0	0	0	0
Sphaeromias	0	0	0	1
Spirosperma	0	0	0	0
Spirosperma ferox	0	0	0	0
Stelechomyia perpulchra	0	1	0	0
Stempellina	0	0	0	0
Stempellina sp. a epler	0	0	0	0
Stempellinella	1	0	0	0
Stenacron	0	0	0	0
Stenacron floridense	0	0	0	0
Stenacron interpunctatum	0	0	0	0
Stenelmis	4	2	9	6
Stenelmis decorata	0	0	0	0
Stenelmis hungerfordi	0	0	0	0
Stenochironomus	3	4	1	1
Stenonema	0	0	0	0
Stenonema exiguum	0	0	0	3
Stenonema smithae	0	0	14	0
Stratiomyidae	0	0	0	0
Stylaria lacustris	0	0	0	0
Synorthocladius	0	0	0	0
Tabanus	0	0	0	0
Taeniopteryx lita	0	0	0	0
Tanytarsus	0	0	0	0
Tanytarsus sp. a epler	0	0	0	0
Tanytarsus sp. c epler	0	0	0	0
Tanytarsus sp. d epler	0	5	0	0
Tanytarsus sp. e epler	0	0	0	0
Tanytarsus sp. g epler	0	0	0	0
Tanytarsus sp. l epler	0	0	0	1
Tanytarsus sp. m epler	1	6	0	0
Tanytarsus sp. o epler	0	5	0	0
Tanytarsus sp. r epler	0	0	0	0
Tanytarsus sp. s epler	4	0	0	0
Tanytarsus sp. t epler	0	0	0	0
Tanytarsus sp. u epler	0	0	0	0
Taphromysis bowmani	0	0	0	0

As Calculated / STORET station ->	20030414	33040064	20030456	20020012
Sample date ->	3/10/1998	7/1/1998	2/12/1998	8/11/1998
	SampleID	SampleID	SampleID	SampleID
	13535/BenthID	14213/BenthID	14231/BenthID	14930/BenthID
Taxon Name / SampleID/BenID ->	12898(#counted)	13118(#counted)	13136(#counted)	13379(#counted)
Thienemanniella	0	0	0	0
Thienemanniella lobapodema	0	0	0	0
Thienemanniella similis	1	0	0	1
Thienemanniella sp. a epler	1	0	0	0
Thienemannimyia grp.	4	0	1	0
Tipula	0	0	0	0
Tipulidae	0	0	1	0
Torrenticola	1	0	0	0
Triaenodes	0	0	0	0
Triaenodes ignitus	0	1	0	3
Triaenodes perna	0	0	0	0
Tribelos	0	0	0	0
Tribelos atrum	0	0	0	0
Tribelos fuscicornis	0	0	0	0
Tribelos jucundum	0	3	0	0
Tricorythodes albilineatus	0	0	0	11
Tubificidae	0	0	0	0
Turbellaria	0	0	0	1
Tvetenia	0	0	0	0
Tvetenia discoloripes grp.	0	0	0	0
Unionicola	0	0	0	0
Unniella multivirga	0	0	0	0
Veliidae	0	0	0	0
Xenochironomus xenolabis	0	0	0	0
Xestochironomus	0	0	0	3
Xylotopus par	0	1	1	0
Zygoptera	0	0	0	0

As Calculated / STORET station ->	33040014	22020062	25020111	28010223
Sample date ->	7/15/1998	9/9/1998	2/17/1999	3/22/1999
	SampleID	SampleID	SampleID	SampleID
	14965/BenthID	14966/BenthID	15951/BenthID	16636/BenthID
Taxon Name / SampleID/BenID ->	13401(#counted)	13403(#counted)	14187(#counted)	14709(#counted)
Ablabesmyia (karelia) grp.	0	0	0	0
Ablabesmyia hauberi	0	0	0	0
Ablabesmyia mallochi	0	5	0	6
Ablabesmyia rhamphe grp.	0	0	0	8
Acentrella parvula	0	0	0	0
Acerpenna pygmaea	0	0	0	0
Acroneuria	1	1	0	0
Acroneuria abnormis	0	0	0	0
Acroneuria arenosa	0	0	0	0
Acroneuria arenosa/evoluta	0	0	0	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	0	0	0	0
Alluaudomyia	0	0	0	0
Amnicola	0	0	0	0
Amnicola dalli	0	0	0	0
Amnicola dalli johnsoni	0	0	0	0
Amphipoda	0	1	0	0
Ancylidae	0	2	0	0
Ancyronyx	0	0	0	0
Ancyronyx variegatus	1	0	0	0
Anisocentropus pyraloides	0	1	0	0
Anopheles	0	0	0	0
Apsectrotanypus johnsoni	0	0	0	0
Argia	1	0	0	0
Argia fumipennis	0	0	0	0
Argia moesta	0	0	0	0
Argia sedula	0	0	3	0
Argia tibialis	0	0	0	0
Arrenurus	0	0	0	0
Arrenurus problecornis	0	0	0	0
Astacidae	0	0	0	0
Atherix	1	0	0	0
Atractides	0	0	0	0
Atrichopogon	2	0	0	0
Aulodrilus pigueti	0	0	0	0
Aulodrilus pluriseta	0	0	0	0
Baetidae	0	0	1	0
Baetis	0	0	0	0
Baetis intercalaris	0	0	0	0
Baetisca rogersi	0	0	0	0
Beardius truncatus	0	0	0	1
Belostoma	0	0	0	0
Belostomatidae	0	0	0	0
Bivalvia	0	0	0	0
Bourletiella	0	0	0	0
Boyeria vinosa	1	0	0	0
Brachycentrus	0	0	0	0
Brachycentrus chelatus	0	0	0	0
Brachycentrus numerosus	0	3	0	0

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	14965/BenthID	14966/BenthID	15951/BenthID	16636/BenthID
Taxon Name / SampleID/BenID ->	13401(#counted)	13403(#counted)	14187(#counted)	14709(#counted)
Brachycercus maculatus	0	0	1	0
Caecidotea	0	2	0	3
Caecidotea racovitzai	0	0	0	0
Caenis	2	0	0	20
Caenis diminuta	0	0	0	0
Caenis hilaris	0	0	1	0
Callibaetis floridanus	0	0	0	0
Calopteryx	0	0	0	0
Calopteryx maculata	0	0	0	0
Cambaridae	2	5	0	0
Campeloma	0	0	0	0
Campeloma limum	0	0	0	0
Cassidinidea ovalis	0	0	0	0
Cecidomyiidae	1	1	0	0
Ceratopogonidae	0	0	3	0
Cernotina	0	0	1	0
Chaoborus	0	0	0	0
Chaoborus albatus	0	0	0	0
Chauliodes	0	0	0	0
Chelifera	0	0	0	0
Cheumatopsyche	35	0	3	0
Chimarra	5	0	0	0
Chironomus	0	0	0	0
Choroterpes basalis	0	0	0	0
Choroterpes hubbelli	0	0	0	0
Cladotanytarsus	0	0	0	0
Cladotanytarsus cf. daviesi	0	0	0	0
Cladotanytarsus sp. i epler	0	0	0	0
Clathrosperchon	0	0	0	0
Climacea areolaris	0	0	0	0
Clinotanypus	0	2	0	0
Coelotanypus	0	0	0	0
Coelotanypus scapularis	0	0	0	0
Coenagrionidae	0	0	0	0
Collembola	0	0	0	0
Conchapelopia	2	2	0	0
Corbicula fluminea	0	0	2	0
Corduliidae	0	0	0	16
Corydalus	0	0	0	0
Corydalus cornuta	0	0	0	0
Corydalus cornutus	4	0	0	0
Corynoneura	0	2	0	0
Corynoneura sp. b epler	0	0	0	0
Corynoneura sp. c epler	0	0	0	0
Corynoneura taris	0	0	0	0

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Crangonyx	0	0	0	0
Cricotopus	0	0	0	0
Cricotopus bicinctus	0	0	0	0
Cricotopus bicinctus grp.	0	0	3	0
Cricotopus or orthocladius	2	0	0	0
Cryptochironomus	0	0	1	0
Cryptotendipes	0	0	0	0
Curculionidae	0	0	0	0
Cyrnellus fraternus	0	0	0	0
Demicryptochironomus	0	0	0	0
Dero digitata	0	0	0	0
Dero digitata complex	0	0	0	0
Dero lodeni	0	0	0	0
Dero pectinata	0	0	0	1
Dero trifida	0	0	0	0
Dero vaga	0	0	0	0
Dicrotendipes	0	0	0	0
Dicrotendipes modestus	0	0	0	6
Dicrotendipes neomodestus	0	0	0	0
Dicrotendipes simpsoni	0	0	0	0
Dicrotendipes sp. a epler	0	0	0	0
Dineutus	0	0	0	0
Dineutus discolor	0	0	0	0
Dineutus serrulatus	0	0	0	0
Diplectrona modesta	0	0	0	0
Dixa	0	0	0	0
Dixella	0	0	0	0
Djalmabatista pulcher	0	0	0	0
Dolichopodidae	0	0	0	0
Dromogomphus armatus	0	0	0	0
Dromogomphus spinosus	0	0	0	0
Dryopidae	0	0	0	0
Dubiraphia	0	0	0	0
Dubiraphia quadrinotata	0	0	0	0
Dubiraphia vittata	0	0	15	0
Dugesia	0	0	0	0
Dugesia tigrina	0	0	0	0
Eclipidrilus	0	0	0	0
Eclipidrilus palustris	0	0	0	1
Ectopria	0	0	0	0
Elimia	0	0	0	0
Elimia floridensis	0	0	0	0
Empididae	0	0	0	0
Enallagma	0	0	0	0

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Enallagma cardenium	0	0	0	9
Enchytraeidae	0	11	0	0
Endotribelos hesperium	0	0	0	0
Enochrus	0	0	0	2
Ephemerellidae	0	2	0	0
Ephydridae	0	0	0	0
Epitheca	0	0	0	0
Epitheca princeps regina	0	0	0	0
Eurylophella doris	0	0	0	0
Eurylophella temporalis	0	0	0	0
Ferrissia	0	0	0	0
Gammaridae	0	0	0	0
Gammarus	0	0	0	0
Gammarus tigrinus	0	0	0	0
Gastropoda	0	0	0	1
Geayia	0	0	0	0
Gerridae	0	0	0	1
Gloiobdella elongata	0	0	0	0
Goeldichironomus fluctuans	0	0	0	0
Gomphidae	0	0	0	0
Gomphus	0	0	0	0
Gomphus minutus	0	0	0	0
Gonielmis	0	0	0	0
Gonielmis dietrichi	1	2	0	0
Grandidierella bonnieroides	0	0	0	0
Gyretes iricolor	0	0	0	0
Haber speciosus	0	0	0	0
Hagenius brevistylus	0	0	0	0
Hebetancylus excentricus	0	0	2	0
Helobdella stagnalis	0	0	0	0
Helobdella triserialis	0	0	1	0
Helopelopia	0	0	0	0
Hemerodromia	4	1	0	0
Hemiptera	0	0	0	0
Heptageniidae	0	0	0	0
Hetaerina	0	0	0	0
Hetaerina titia	0	0	2	0
Heteroplectron americanum	0	0	0	0
Hexagenia	0	0	0	0
Hexagenia bilineata	1	0	0	0
Hexagenia limbata	0	0	0	0
Hexagenia munda orlando	0	0	0	0
Hexatoma	2	0	0	0
Hyalella azteca	0	0	0	25
Hydra	0	0	0	0
Hydrachna	0	0	0	0
Hydraena marginicollis	0	0	0	0
Hydraenidae	1	0	0	0

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Hydrobiidae	0	0	0	0
Hydrodroma	0	0	0	0
Hydrophilidae	0	0	0	0
Hydroporus	0	0	0	0
Hydropsyche	20	0	6	0
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	0	0	0
Hydroptila	4	0	0	0
Hydroptilidae	0	0	0	0
Hygrobates	0	0	0	0
Hygrotus	0	0	0	0
Ischnura	0	0	0	0
Ischnura hastata	0	0	0	0
Isonychia	0	0	0	0
Isoperla	0	0	0	0
Isopoda	0	0	0	0
Isotomurus	0	0	0	0
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	0	0	0
Krendowskia	0	0	0	0
Labiobaetis	0	0	0	0
Labrundinia	0	0	0	0
Labrundinia becki	0	0	0	13
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	0	0	0	0
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	0
Lauterborniella agrayloides	0	0	0	0
Lebertia	0	0	0	0
Lepidoptera	0	0	0	0
Leptoceridae	2	0	0	0
Leptophlebia	0	0	0	5
Leptophlebiidae	1	2	0	0
Leuctra	2	6	0	0
Libellulidae	0	0	0	0
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	0	0	0	0
Limnophila	0	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	0	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	0	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	0	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0	0	0	0

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Lype diversa	1	0	0	0
Maccaffertium	0	0	0	0
Maccaffertium smithae	0	0	0	0
Macromia	0	0	0	0
Macromia taeniolata	0	0	0	0
Macromiidae	0	0	0	0
Macronychus glabratus	20	0	0	0
Macrostemum carolina	0	0	0	0
Mayatrichia	0	0	0	0
Mayatrichia ayama	0	0	0	0
Meropelopia	0	0	0	0
Mesosmittia	0	0	0	0
Metrobates	0	0	0	0
Micrasema	1	0	0	0
Micrasema rusticum	0	0	0	0
Micrasema wataga	0	0	0	0
Microcylloepus	0	0	0	7
Microcylloepus pusillus	0	1	3	0
Micromenetus	0	0	0	0
Micromenetus dilatatus	0	0	0	0
Microtendipes pedellus	0	0	0	0
Microtendipes pedellus grp.	0	0	0	0
Microtendipes rydalensis	0	0	0	0
Microtendipes rydalensis grp.	1	0	0	0
Mideopsis	0	0	0	0
Molanna	0	0	0	0
Mooreobdella	0	0	0	0
Mooreobdella tetragon	0	0	0	0
Muscidae	0	0	0	0
Naididae	0	0	0	0
Nais behningi	0	0	0	0
Nais communis	0	0	0	0
Nais communis complex	0	0	0	0
Nais pardalis	0	0	0	0
Nais simplex	0	0	0	0
Nais variabilis	0	0	0	0
Nanocladius	0	0	0	0
Nectopsyche	0	0	0	0
Nectopsyche candida	0	0	0	0
Nectopsyche exquisita	0	0	2	0
Nectopsyche pavida	0	0	3	0
Nemertea	0	0	0	0
Neoperla	0	0	0	0
Neoperla clymene	0	0	0	0
Neoporus	0	0	0	0
Neotrichia	0	0	0	0
Neumania	0	0	0	0

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Neumania distincta	0	0	0	0
Neureclipsis	0	0	0	0
Neureclipsis crepuscularis	0	0	0	0
Neurocordulia	0	0	0	0
Neurocordulia alabamensis	0	0	0	0
Neurocordulia virginiensis	0	0	0	0
Nigronia	0	0	0	0
Nigronia fasciatus	0	0	0	0
Nigronia serricornis	0	0	0	0
Nilotanypus	0	0	0	0
Nilothauma	0	0	1	0
Notogillia wetherbyi	0	0	0	0
Nyctiophylax	0	0	0	0
Odonata	0	0	0	0
Odontomyia	0	0	0	0
Oecetis	0	0	3	0
Oecetis cinerascens	0	0	0	0
Oecetis georgia	0	0	0	0
Oecetis inconspicua cmplx.	0	0	0	0
Oecetis morsei or sphyra	0	0	0	0
Oecetis parva	0	0	0	0
Oecetis persimilis	0	0	0	0
Oecetis sp. a floyd	0	0	0	0
Oecetis sp. e floyd	0	0	0	0
Ora/scirtes	0	0	0	0
Oribatei	0	0	0	0
Orthocladiinae	0	0	0	0
Orthocladiinae gen. c epler	0	0	0	0
Orthocladiinae gen. f epler	0	0	0	0
Orthocladius annectens	0	0	0	0
Orthotrichia	0	0	0	0
Oxyethira	0	0	0	0
Pachydiplax longipennis	0	0	0	0
Pagastiella	0	0	0	0
Palaemonetes	0	0	0	7
Palaemonetes kadiakensis	0	0	0	0
Palaemonetes paludosus	0	0	0	0
Palpomyia/bezzia grp.	1	0	0	8
Paracladopelma	0	0	0	0
Paracladopelma loganae	0	0	0	0
Paracladopelma undine	0	0	0	0
Paragnetina	2	0	0	0
Paragnetina fumosa	0	0	0	0

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Parakiefferiella	0	0	0	0
Paralauterborniella nigrohalterale	0	0	0	0
Paraleptophlebia volitans	0	0	0	0
Parametriocnemus	0	0	0	0
Parametriocnemus sp. f epler	2	0	0	0
Paranyctiophylax	2	1	0	0
Paraplea	0	0	0	0
Paraponyx	0	0	0	0
Paratanytarsus sp. a epler	0	0	0	0
Paratanytarsus sp. c epler	0	0	0	0
Paratendipes subaequalis	0	0	0	0
Pelecypoda	0	0	0	1
Pelonomus obscurus	0	0	0	0
Peltodytes	0	0	0	0
Pentaneura inconspicua	0	4	1	0
Perlesta	0	0	0	0
Perlesta placida	0	0	0	0
Perlesta placida complex	0	0	0	0
Perlinella	0	1	0	0
Petrophila	0	0	0	0
Phaenopsectra obediens grp.	0	0	0	0
Phaenopsectra punctipes grp.	0	0	0	0
Phylocentropus	0	0	0	0
Physella	0	0	0	0
Physella cubensis	0	0	0	0
Piona	0	0	0	0
Pisidiidae	0	0	0	0
Pisidium	0	0	0	0
Planariidae	0	0	0	0
Planorbella duryi	0	0	0	0
Planorbella scalaris	0	0	0	0
Planorbidae	0	0	0	0
Platyhelminthes	0	0	0	0
Plecoptera	0	0	0	0
Plumulariidae	0	0	0	1
Polycentropodidae	0	0	0	0
Polycentropus	0	0	0	0
Polypedilum	0	0	0	0
Polypedilum aviceps	1	2	0	0
Polypedilum convictum grp.	1	6	14	0
Polypedilum fallax	0	0	0	0
Polypedilum flavum	0	0	0	0

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Polypedilum halterale grp.	0	0	0	0
Polypedilum illinoense	0	0	0	0
Polypedilum illinoense grp.	2	2	0	4
Polypedilum scalaenum	0	0	0	0
Polypedilum scalaenum grp.	2	0	1	0
Polypedilum sp. a epler	0	0	0	0
Polypedilum tritum	0	1	0	0
Pomacea paludosa	0	0	0	0
Pristina aequiseta	0	0	0	0
Pristina synclites	0	0	0	1
Pristinella jenkinae	0	0	0	0
Probezzia	0	0	0	0
Procambarus	0	0	0	0
Procladius	0	0	0	0
Procladius (holotanypus)	0	0	0	0
Procloeon viridocularis	0	0	0	0
Progomphus	0	0	0	0
Progomphus obscurus	0	0	0	0
Promoresia tardella	0	0	0	0
Prostoma rubrum	0	0	0	0
Psammoryctides convolutus	0	0	0	0
Pseudochironomus	0	1	0	0
Pseudocloeon	0	0	0	0
Psychodidae	0	0	0	0
Pycnopsyche	0	0	0	0
Pyralidae	0	0	0	0
Pyrgophorus platyrachis	0	0	8	0
Ranatra kirkaldyi	0	0	0	0
Rhagovelia	0	0	0	0
Rheocricotopus	0	0	0	0
Rheocricotopus robacki	3	0	0	0
Rheocricotopus tuberculatus	0	0	0	0
Rheotanytarsus	0	0	0	0
Rheotanytarsus distinctissimus grp.	0	0	0	0
Rheotanytarsus exiguus	0	0	0	0
Rheotanytarsus exiguus grp.	5	0	8	0
Rheotanytarsus pellucidus	0	0	0	0
Scirtes	0	0	0	0
Scirtidae	0	0	0	0
Serratella deficiens	0	0	0	0
Sialis	0	0	0	0
Silvius	0	0	0	0

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Simuliidae	0	0	0	0
Simulium	7	0	0	0
Slavina appendiculata	0	0	0	0
Somatogyrus walkerianus	0	0	0	0
Sperchon	0	0	0	0
Sperchonopsis	0	0	0	0
Sperchopsis	1	0	0	0
Sphaeriidae	0	0	0	0
Sphaeriidae(mollusca)	0	0	0	0
Sphaeroma	0	0	0	0
Sphaeromias	0	0	0	0
Spirosperma	0	0	0	0
Spirosperma ferox	0	0	0	0
Stelechomyia perpulchra	3	1	0	0
Stempellina	0	0	0	0
Stempellina sp. a epler	0	0	0	0
Stempellinella	0	0	0	0
Stenacron	0	0	0	0
Stenacron floridense	0	0	0	0
Stenacron interpunctatum	0	0	0	0
Stenelmis	3	9	11	7
Stenelmis decorata	0	0	0	0
Stenelmis hungerfordi	0	0	0	0
Stenochironomus	0	11	1	0
Stenonema	0	0	2	0
Stenonema exiguum	2	4	0	0
Stenonema smithae	2	2	0	0
Stratiomyidae	0	0	0	0
Stylaria lacustris	0	0	0	0
Synorthocladius	0	0	0	0
Tabanus	2	0	0	0
Taeniopteryx lita	0	0	0	0
Tanytarsus	0	1	0	0
Tanytarsus sp. a epler	0	0	0	0
Tanytarsus sp. c epler	0	0	0	0
Tanytarsus sp. d epler	1	0	0	0
Tanytarsus sp. e epler	0	0	0	0
Tanytarsus sp. g epler	0	0	0	0
Tanytarsus sp. l epler	1	0	2	4
Tanytarsus sp. m epler	2	0	0	0
Tanytarsus sp. o epler	1	0	0	0
Tanytarsus sp. r epler	0	0	0	0
Tanytarsus sp. s epler	0	0	0	0
Tanytarsus sp. t epler	0	0	0	0
Tanytarsus sp. u epler	0	0	0	0
Taphromysis bowmani	0	0	0	0

As Calculated / STORET station ->	33040014	22020062	25020111	28010223
Sample date ->	7/15/1998	9/9/1998	2/17/1999	3/22/1999
	SampleID	SampleID	SampleID	SampleID
	14965/BenthID	14966/BenthID	15951/BenthID	16636/BenthID
Taxon Name / SampleID/BenID ->	13401(#counted)	13403(#counted)	14187(#counted)	14709(#counted)
Thienemanniella	0	0	0	0
Thienemanniella lobapodema	0	0	0	0
Thienemanniella similis	0	0	0	0
Thienemanniella sp. a epler	1	0	0	0
Thienemannimyia grp.	2	2	0	0
Tipula	0	0	0	0
Tipulidae	0	0	0	0
Torrenticola	0	0	0	0
Triaenodes	0	0	0	0
Triaenodes ignitus	0	0	0	0
Triaenodes perna	0	0	0	0
Tribelos	0	0	0	0
Tribelos atrum	0	0	0	0
Tribelos fuscicornis	0	0	0	0
Tribelos jucundum	0	0	0	0
Tricorythodes albilineatus	0	0	5	0
Tubificidae	0	0	0	0
Turbellaria	0	0	0	0
Tvetenia	0	0	0	0
Tvetenia discoloripes grp.	1	0	0	0
Unionicola	0	0	0	0
Unniella multivirga	0	0	0	0
Veliidae	1	0	0	0
Xenochironomus xenolabis	0	0	0	0
Xestochironomus	0	0	0	0
Xylotopus par	0	0	0	0
Zygoptera	1	0	0	0

As Calculated / STORET station ->	32020063	21010018	26011020	28010223
Sample date ->	1/21/1999	7/27/1999	7/20/1999	10/7/1999
	SampleID	SampleID	SampleID	SampleID
	16643/BenthID	18076/BenthID	18372/BenthID	18594/BenthID
Taxon Name / SampleID/BenID ->	14716(#counted)	15790(#counted)	15965(#counted)	16087(#counted)
Ablabesmyia (karelia) grp.	0	0	0	0
Ablabesmyia hauberi	0	0	0	0
Ablabesmyia mallochi	0	3	2	0
Ablabesmyia rhamphe grp.	0	2	0	0
Acentrella parvula	0	0	0	0
Acerpenna pygmaea	0	0	7	0
Acroneuria	0	0	0	0
Acroneuria abnormis	0	0	0	0
Acroneuria arenosa	0	0	0	0
Acroneuria arenosa/evoluta	0	0	0	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	0	0	0	0
Alluaudomyia	0	0	0	0
Amnicola	0	0	0	0
Amnicola dalli	0	0	0	0
Amnicola dalli johnsoni	0	0	0	0
Amphipoda	0	0	0	0
Ancylidae	0	5	0	0
Ancyronyx	0	0	0	0
Ancyronyx variegatus	2	2	0	0
Anisocentropus pyraloides	0	0	0	0
Anopheles	0	0	0	0
Apsectrotanypus johnsoni	0	0	0	0
Argia	1	1	1	0
Argia fumipennis	0	0	0	0
Argia moesta	0	0	0	0
Argia sedula	0	0	0	0
Argia tibialis	0	0	0	0
Arrenurus	0	0	0	0
Arrenurus problecornis	0	0	0	0
Astacidae	0	0	0	0
Atherix	0	0	0	0
Atractides	0	0	0	0
Atrichopogon	0	1	0	0
Aulodrilus pigueti	0	0	0	0
Aulodrilus pluriseta	0	0	0	0
Baetidae	0	0	0	16
Baetis	0	0	0	0
Baetis intercalaris	0	0	0	0
Baetisca rogersi	0	0	0	0
Beardius truncatus	0	0	0	0
Belostoma	0	0	0	0
Belostomatidae	0	0	0	0
Bivalvia	0	0	0	0
Bourletiella	0	0	0	0
Boyeria vinosa	0	0	0	0
Brachycentrus	0	0	0	0
Brachycentrus chelatus	1	0	0	0
Brachycentrus numerosus	0	0	0	0

As Calculated / STORET station ->	32020063	21010018	26011020	28010223
Sample date ->	1/21/1999	7/27/1999	7/20/1999	10/7/1999
	SampleID	SampleID	SampleID	SampleID
	16643/BenthID	18076/BenthID	18372/BenthID	18594/BenthID
Taxon Name / SampleID/BenID ->	14716(#counted)	15790(#counted)	15965(#counted)	16087(#counted)
Brachycercus maculatus	0	0	0	0
Caecidotea	2	5	0	0
Caecidotea racovitzai	0	0	0	0
Caenis	0	13	2	3
Caenis diminuta	0	0	0	0
Caenis hilaris	0	0	0	0
Callibaetis floridanus	0	0	0	0
Calopteryx	0	0	0	0
Calopteryx maculata	0	0	0	0
Cambaridae	1	0	0	0
Campeloma	0	0	0	0
Campeloma limum	0	0	0	0
Cassidinidea ovalis	0	0	0	0
Cecidomyiidae	0	0	0	0
Ceratopogonidae	0	0	0	1
Cernotina	0	0	0	0
Chaoborus	0	0	0	0
Chaoborus albatus	0	0	0	0
Chauliodes	0	0	0	1
Chelifera	0	0	0	0
Cheumatopsyche	0	0	0	0
Chimarra	13	0	0	0
Chironomus	0	0	0	0
Choroterpes basalis	0	0	0	12
Choroterpes hubbelli	0	0	0	0
Cladotanytarsus	0	0	0	0
Cladotanytarsus cf. daviesi	0	0	0	0
Cladotanytarsus sp. i epler	0	0	0	0
Clathrosperchon	0	0	0	0
Climacea areolaris	0	0	0	0
Clinotanypus	0	0	0	0
Coelotanypus	0	0	0	0
Coelotanypus scapularis	0	0	0	0
Coenagrionidae	0	0	0	0
Collembola	0	0	0	0
Conchapelopia	0	0	0	0
Corbicula fluminea	0	0	15	0
Corduliidae	0	0	4	0
Corydalus	0	0	0	0
Corydalus cornuta	0	0	0	0
Corydalus cornutus	0	0	0	0
Corynoneura	0	0	0	0
Corynoneura sp. b epler	0	0	0	0
Corynoneura sp. c epler	0	0	0	0
Corynoneura taris	0	0	0	1

As Calculated / STORET station ->	32020063	21010018	26011020	28010223
Sample date ->	1/21/1999	7/27/1999	7/20/1999	10/7/1999
	SampleID	SampleID	SampleID	SampleID
	16643/BenthID	18076/BenthID	18372/BenthID	18594/BenthID
Taxon Name / SampleID/BenID ->	14716(#counted)	15790(#counted)	15965(#counted)	16087(#counted)
Crangonyx	3	0	0	1
Cricotopus	0	0	0	0
Cricotopus bicinctus	0	0	0	0
Cricotopus bicinctus grp.	0	0	0	0
Cricotopus or orthocladius	0	0	0	0
Cryptochironomus	0	1	0	1
Cryptotendipes	0	0	0	0
Curculionidae	0	0	0	0
Cyrnellus fraternus	0	0	0	0
Demicryptochironomus	0	0	0	0
Dero digitata	0	0	0	0
Dero digitata complex	0	0	0	0
Dero lodeni	0	0	0	0
Dero pectinata	0	0	0	0
Dero trifida	0	0	0	0
Dero vaga	0	0	0	1
Dicrotendipes	0	0	0	0
Dicrotendipes modestus	0	0	0	0
Dicrotendipes neomodestus	0	0	0	0
Dicrotendipes simpsoni	0	2	0	0
Dicrotendipes sp. a epler	0	0	0	0
Dineutus	0	0	0	0
Dineutus discolor	0	0	0	0
Dineutus serrulatus	0	0	0	2
Diplectrona modesta	0	0	0	0
Dixa	0	0	0	0
Dixella	0	0	0	0
Djalmabatista pulcher	0	0	3	0
Dolichopodidae	0	0	0	0
Dromogomphus armatus	0	0	0	0
Dromogomphus spinosus	0	0	0	0
Dryopidae	0	0	0	0
Dubiraphia	0	0	0	0
Dubiraphia quadrinotata	0	0	0	0
Dubiraphia vittata	0	0	2	0
Dugesia	0	0	0	0
Dugesia tigrina	0	0	0	0
Eclipidrilus	0	0	0	0
Eclipidrilus palustris	2	0	0	0
Ectopria	0	0	0	0
Elimia	0	0	0	0
Elimia floridensis	0	0	0	0
Empididae	0	0	0	0
Enallagma	0	0	1	0

As Calculated / STORET station ->	32020063	21010018	26011020	28010223
Sample date ->	1/21/1999	7/27/1999	7/20/1999	10/7/1999
	SampleID	SampleID	SampleID	SampleID
	16643/BenthID	18076/BenthID	18372/BenthID	18594/BenthID
Taxon Name / SampleID/BenID ->	14716(#counted)	15790(#counted)	15965(#counted)	16087(#counted)
Enallagma cardenium	0	0	0	0
Enchytraeidae	2	0	1	0
Endotribelos hesperium	0	0	0	0
Enochrus	0	0	0	0
Ephemerellidae	0	0	0	0
Ephydridae	0	0	0	0
Epitheca	0	0	0	0
Epitheca princeps regina	0	0	0	0
Eurylophella doris	4	0	0	0
Eurylophella temporalis	0	0	0	0
Ferrissia	0	0	0	0
Gammaridae	0	0	0	0
Gammarus	0	0	0	0
Gammarus tigrinus	0	0	0	0
Gastropoda	0	0	0	0
Geayia	0	0	0	0
Gerridae	0	0	0	0
Gloiobdella elongata	0	0	0	0
Goeldichironomus fluctuans	0	0	0	0
Gomphidae	0	0	5	0
Gomphus	0	0	0	0
Gomphus minutus	0	0	0	0
Gonielmis	0	0	0	0
Gonielmis dietrichi	0	0	0	0
Grandidierella bonnieroides	0	0	0	0
Gyretes iricolor	0	0	0	0
Haber speciosus	0	0	0	0
Hagenius brevistylus	0	0	0	0
Hebetancylus excentricus	0	0	0	2
Helobdella stagnalis	0	0	0	0
Helobdella triserialis	0	0	0	0
Helopelopia	0	0	0	0
Hemerodromia	3	0	2	0
Hemiptera	0	0	0	0
Heptageniidae	0	0	0	0
Hetaerina	0	0	0	0
Hetaerina titia	0	0	0	0
Heteroplectron americanum	0	0	0	0
Hexagenia	0	0	0	0
Hexagenia bilineata	0	0	0	0
Hexagenia limbata	0	0	0	0
Hexagenia munda orlando	0	0	0	0
Hexatoma	1	0	0	0
Hyalella azteca	0	1	32	3
Hydra	0	0	0	0
Hydrachna	0	0	0	0
Hydraena marginicollis	0	0	0	0
Hydraenidae	0	0	0	0

As Calculated / STORET station ->	32020063	21010018	26011020	28010223
Sample date ->	1/21/1999	7/27/1999	7/20/1999	10/7/1999
	SampleID	SampleID	SampleID	SampleID
	16643/BenthID	18076/BenthID	18372/BenthID	18594/BenthID
Taxon Name / SampleID/BenID ->	14716(#counted)	15790(#counted)	15965(#counted)	16087(#counted)
Hydrobiidae	0	0	0	1
Hydrodroma	0	0	0	0
Hydrophilidae	0	0	0	0
Hydroporus	0	0	0	0
Hydropsyche	1	0	0	0
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	1	2	0
Hydroptila	1	0	3	0
Hydroptilidae	0	0	0	0
Hygrobates	0	0	0	0
Hygrotus	0	0	0	0
Ischnura	0	0	0	0
Ischnura hastata	0	0	0	0
Isonychia	0	0	0	0
Isoperla	0	0	0	0
Isopoda	0	0	0	0
Isotomurus	0	0	0	0
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	0	0	0
Krendowskia	0	0	0	0
Labiobaetis	0	2	0	0
Labrundinia	0	0	0	0
Labrundinia becki	0	0	0	2
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	0	0	0	3
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	1
Lauterborniella agrayloides	0	0	0	0
Lebertia	0	0	3	0
Lepidoptera	0	0	0	0
Leptoceridae	0	0	0	0
Leptophlebia	0	0	0	0
Leptophlebiidae	0	6	0	0
Leuctra	0	0	0	0
Libellulidae	0	4	0	0
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	1	0	1	0
Limnophila	0	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	0	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	0	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	0	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0	0	1	0

As Calculated / STORET station ->	32020063	21010018	26011020	28010223
Sample date ->	1/21/1999	7/27/1999	7/20/1999	10/7/1999
	SampleID	SampleID	SampleID	SampleID
	16643/BenthID	18076/BenthID	18372/BenthID	18594/BenthID
Taxon Name / SampleID/BenID ->	14716(#counted)	15790(#counted)	15965(#counted)	16087(#counted)
Lype diversa	0	0	0	0
Maccaffertium	0	0	0	0
Maccaffertium smithae	0	0	0	0
Macromia	0	0	0	0
Macromia taeniolata	0	0	0	0
Macromiidae	0	0	1	0
Macronychus glabratus	0	0	0	0
Macrostemum carolina	0	0	0	0
Mayatrichia	0	0	0	0
Mayatrichia ayama	0	0	0	0
Meropelopia	0	0	0	0
Mesosmittia	0	0	0	0
Metrobates	0	0	0	0
Micrasema	0	0	0	0
Micrasema rusticum	0	0	0	0
Micrasema wataga	0	0	0	0
Microcylloepus	0	0	0	0
Microcylloepus pusillus	0	2	25	1
Micromenetus	0	0	0	0
Micromenetus dilatatus	0	0	0	0
Microtendipes pedellus	0	0	0	0
Microtendipes pedellus grp.	1	0	0	0
Microtendipes rydalensis	0	0	0	0
Microtendipes rydalensis grp.	0	0	0	0
Mideopsis	0	0	0	0
Molanna	0	0	0	0
Mooreobdella	0	0	0	0
Mooreobdella tetragon	0	0	0	0
Muscidae	0	0	0	0
Naididae	0	0	0	0
Nais behningi	0	0	0	0
Nais communis	0	0	0	0
Nais communis complex	0	0	3	0
Nais pardalis	0	0	0	0
Nais simplex	0	0	0	0
Nais variabilis	0	0	0	0
Nanocladius	0	0	0	0
Nectopsyche	0	0	0	0
Nectopsyche candida	0	0	0	0
Nectopsyche exquisita	0	0	14	0
Nectopsyche pavida	0	0	1	0
Nemertea	0	0	0	0
Neoperla	0	0	0	0
Neoperla clymene	0	0	0	0
Neoporus	0	0	0	0
Neotrichia	0	0	0	0
Neumania	0	0	0	0

As Calculated / STORET station ->	32020063	21010018	26011020	28010223
Sample date ->	1/21/1999	7/27/1999	7/20/1999	10/7/1999
	SampleID	SampleID	SampleID	SampleID
	16643/BenthID	18076/BenthID	18372/BenthID	18594/BenthID
Taxon Name / SampleID/BenID ->	14716(#counted)	15790(#counted)	15965(#counted)	16087(#counted)
Neumania distincta	0	0	0	0
Neureclipsis	0	0	0	0
Neureclipsis crepuscularis	0	0	0	0
Neurocordulia	0	0	0	0
Neurocordulia alabamensis	0	0	0	0
Neurocordulia virginiensis	2	0	0	0
Nigronia	0	0	0	0
Nigronia fasciatus	0	0	0	0
Nigronia serricornis	0	0	0	0
Nilotanypus	0	0	0	0
Nilothauma	1	0	0	0
Notogillia wetherbyi	0	0	0	0
Nyctiophylax	0	0	0	0
Odonata	0	0	0	1
Odontomyia	0	0	0	0
Oecetis	0	0	0	0
Oecetis cinerascens	0	0	0	0
Oecetis georgia	0	0	0	0
Oecetis inconspicua cmplx.	0	0	5	0
Oecetis morsei or sphyra	4	0	0	0
Oecetis parva	0	0	0	0
Oecetis persimilis	0	0	0	0
Oecetis sp. a floyd	0	0	0	0
Oecetis sp. e floyd	0	0	0	0
Ora/scirtes	0	0	0	0
Oribatei	0	0	0	0
Orthocladiinae	1	0	0	0
Orthocladiinae gen. c epler	0	0	0	0
Orthocladiinae gen. f epler	0	0	0	0
Orthocladius annectens	0	0	0	0
Orthotrichia	0	0	0	0
Oxyethira	0	0	0	0
Pachydiplax longipennis	0	0	0	0
Pagastiella	0	0	0	0
Palaemonetes	0	0	0	0
Palaemonetes kadiakensis	0	0	0	1
Palaemonetes paludosus	0	0	0	0
Palpomyia/bezzia grp.	0	0	2	0
Paracladopelma	0	0	0	0
Paracladopelma loganae	0	0	0	0
Paracladopelma undine	0	0	0	0
Paragnetina	0	0	0	0
Paragnetina fumosa	0	0	0	0

As Calculated / STORET station ->	32020063	21010018	26011020	28010223
Sample date ->	1/21/1999	7/27/1999	7/20/1999	10/7/1999
	SampleID	SampleID	SampleID	SampleID
	16643/BenthID	18076/BenthID	18372/BenthID	18594/BenthID
Taxon Name / SampleID/BenID ->	14716(#counted)	15790(#counted)	15965(#counted)	16087(#counted)
Parakiefferiella	0	0	0	0
Paralauterborniella nigrohalterale	0	0	0	0
Paraleptophlebia volitans	0	0	0	0
Parametriocnemus	0	0	0	0
Parametriocnemus sp. f epler	0	0	0	0
Paranyctiophylax	2	0	0	0
Paraplea	0	0	0	0
Paraponyx	0	0	0	0
Paratanytarsus sp. a epler	0	0	0	0
Paratanytarsus sp. c epler	0	0	0	0
Paratendipes subaequalis	0	0	0	0
Pelecypoda	0	0	0	0
Pelonomus obscurus	0	0	0	1
Peltodytes	0	0	0	0
Pentaneura inconspicua	0	0	0	0
Perlesta	4	0	0	0
Perlesta placida	0	0	0	0
Perlesta placida complex	0	0	0	0
Perlinella	0	0	0	0
Petrophila	0	0	0	0
Phaenopsectra obediens grp.	0	0	0	0
Phaenopsectra punctipes grp.	0	0	0	0
Phylocentropus	0	0	0	0
Physella	0	0	0	0
Physella cubensis	0	0	0	0
Piona	0	0	0	0
Pisidiidae	0	0	0	0
Pisidium	0	0	0	0
Planariidae	0	0	0	0
Planorbella duryi	0	0	0	0
Planorbella scalaris	0	0	0	0
Planorbidae	0	38	0	0
Platyhelminthes	0	0	0	0
Plecoptera	0	0	0	0
Plumulariidae	0	0	0	0
Polycentropodidae	0	0	0	0
Polycentropus	0	0	0	0
Polypedilum	0	0	0	0
Polypedilum aviceps	3	0	0	0
Polypedilum convictum grp.	3	0	0	0
Polypedilum fallax	0	0	2	0
Polypedilum flavum	0	0	0	0

As Calculated / STORET station ->	32020063	21010018	26011020	28010223
Sample date ->	1/21/1999	7/27/1999	7/20/1999	10/7/1999
	SampleID	SampleID	SampleID	SampleID
	16643/BenthID	18076/BenthID	18372/BenthID	18594/BenthID
Taxon Name / SampleID/BenID ->	14716(#counted)	15790(#counted)	15965(#counted)	16087(#counted)
Polypedilum halterale grp.	0	0	0	0
Polypedilum illinoense	0	0	0	0
Polypedilum illinoense grp.	0	0	0	17
Polypedilum scalaenum	0	0	0	0
Polypedilum scalaenum grp.	0	0	0	0
Polypedilum sp. a epler	0	0	0	0
Polypedilum tritum	0	0	0	0
Pomacea paludosa	0	0	0	0
Pristina aequiseta	0	0	0	0
Pristina synclites	0	0	0	0
Pristinella jenkinae	0	0	0	0
Probezzia	1	0	0	0
Procambarus	0	0	0	0
Procladius	0	1	0	0
Procladius (holotanypus)	0	0	0	0
Procloeon viridocularis	0	0	0	0
Progomphus	0	0	0	0
Progomphus obscurus	0	0	0	0
Promoresia tardella	0	0	0	0
Prostoma rubrum	0	0	0	0
Psammoryctides convolutus	0	0	0	0
Pseudochironomus	0	0	0	0
Pseudocloeon	0	0	0	0
Psychodidae	0	0	0	0
Pycnopsyche	1	0	0	0
Pyralidae	0	0	0	0
Pyrgophorus platyrachis	0	0	0	0
Ranatra kirkaldyi	0	0	0	0
Rhagovelia	0	0	0	0
Rheocricotopus	0	0	0	0
Rheocricotopus robacki	0	0	0	0
Rheocricotopus tuberculatus	0	0	0	0
Rheotanytarsus	0	0	0	0
Rheotanytarsus distinctissimus grp.	0	0	0	2
Rheotanytarsus exiguus	0	0	0	0
Rheotanytarsus exiguus grp.	1	0	8	10
Rheotanytarsus pellucidus	0	0	0	0
Scirtes	0	0	1	0
Scirtidae	0	0	0	0
Serratella deficiens	0	0	0	0
Sialis	0	0	0	0
Silvius	0	0	0	0

As Calculated / STORET station ->	32020063	21010018	26011020	28010223
Sample date ->	1/21/1999	7/27/1999	7/20/1999	10/7/1999
	SampleID	SampleID	SampleID	SampleID
	16643/BenthID	18076/BenthID	18372/BenthID	18594/BenthID
Taxon Name / SampleID/BenID ->	14716(#counted)	15790(#counted)	15965(#counted)	16087(#counted)
Simuliidae	0	0	0	0
Simulium	18	0	1	15
Slavina appendiculata	0	0	0	0
Somatogyrus walkerianus	0	0	0	0
Sperchon	0	0	0	0
Sperchonopsis	0	0	0	0
Sperchopsis	0	0	0	0
Sphaeriidae	0	0	0	0
Sphaeriidae(mollusca)	0	4	0	0
Sphaeroma	0	0	0	0
Sphaeromias	0	0	0	0
Spirosperma	0	0	0	0
Spirosperma ferox	0	0	0	0
Stelechomyia perpulchra	0	0	0	0
Stempellina	5	0	0	0
Stempellina sp. a epler	0	0	0	0
Stempellinella	0	0	0	0
Stenacron	0	0	0	0
Stenacron floridense	1	0	0	0
Stenacron interpunctatum	0	0	0	0
Stenelmis	0	6	4	5
Stenelmis decorata	0	0	0	0
Stenelmis hungerfordi	0	0	0	0
Stenochironomus	1	19	2	1
Stenonema	0	3	0	0
Stenonema exiguum	3	0	0	0
Stenonema smithae	5	0	1	0
Stratiomyidae	0	0	0	0
Stylaria lacustris	0	0	0	0
Synorthocladius	0	0	0	0
Tabanus	1	0	0	0
Taeniopteryx lita	0	0	0	0
Tanytarsus	0	0	0	0
Tanytarsus sp. a epler	0	0	0	0
Tanytarsus sp. c epler	0	0	0	2
Tanytarsus sp. d epler	0	0	0	0
Tanytarsus sp. e epler	0	0	0	0
Tanytarsus sp. g epler	0	0	0	0
Tanytarsus sp. l epler	0	0	2	13
Tanytarsus sp. m epler	0	0	0	0
Tanytarsus sp. o epler	0	0	0	0
Tanytarsus sp. r epler	0	0	0	0
Tanytarsus sp. s epler	0	0	0	0
Tanytarsus sp. t epler	0	0	0	1
Tanytarsus sp. u epler	0	0	0	0
Taphromysis bowmani	0	0	0	0

As Calculated / STORET station ->	32020063	21010018	26011020	28010223
Sample date ->	1/21/1999	7/27/1999	7/20/1999	10/7/1999
	SampleID	SampleID	SampleID	SampleID
	16643/BenthID	18076/BenthID	18372/BenthID	18594/BenthID
Taxon Name / SampleID/BenID ->	14716(#counted)	15790(#counted)	15965(#counted)	16087(#counted)
Thienemanniella	0	0	0	0
Thienemanniella lobapodema	0	0	0	0
Thienemanniella similis	0	0	0	0
Thienemanniella sp. a epler	0	0	0	0
Thienemannimyia grp.	3	0	0	0
Tipula	0	0	0	0
Tipulidae	0	0	0	0
Torrenticola	0	0	0	0
Triaenodes	0	5	0	0
Triaenodes ignitus	0	0	0	0
Triaenodes perna	0	0	0	0
Tribelos	0	0	0	0
Tribelos atrum	0	0	0	0
Tribelos fuscicornis	0	0	0	0
Tribelos jucundum	0	1	0	0
Tricorythodes albilineatus	0	0	0	0
Tubificidae	0	0	0	0
Turbellaria	0	0	0	3
Tvetenia	0	0	0	0
Tvetenia discoloripes grp.	0	0	0	0
Unionicola	0	0	0	0
Unniella multivirga	0	0	0	0
Veliidae	0	0	0	0
Xenochironomus xenolabis	0	4	0	0
Xestochironomus	0	0	2	0
Xylotopus par	1	0	0	0
Zygoptera	0	0	0	0

As Calculated / STORET station ->	20030414	19010099	21030064	26010972
Sample date ->	1/12/2000	2/1/2000	3/15/2000	1/10/2000
	SampleID	SampleID	SampleID	SampleID
	20471/BenthID	20474/BenthID	20479/BenthID	20480/BenthID
Taxon Name / SampleID/BenID ->	17104(#counted)	17107(#counted)	17112(#counted)	17113(#counted)
Ablabesmyia (karelia) grp.	0	0	0	0
Ablabesmyia hauberi	0	0	0	0
Ablabesmyia mallochi	1	7	11	0
Ablabesmyia rhamphe grp.	0	0	1	0
Acentrella parvula	0	0	0	0
Acerpenna pygmaea	0	0	0	0
Acroneuria	0	0	0	0
Acroneuria abnormis	0	0	0	0
Acroneuria arenosa	0	0	0	0
Acroneuria arenosa/evoluta	0	0	0	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	3	0	0	0
Alluaudomyia	0	0	0	0
Amnicola	0	0	0	0
Amnicola dalli	0	0	0	0
Amnicola dalli johnsoni	0	0	0	0
Amphipoda	0	0	0	0
Ancylidae	3	0	0	0
Ancyronyx	0	0	0	0
Ancyronyx variegatus	0	1	0	0
Anisocentropus pyraloides	2	0	0	0
Anopheles	0	0	0	0
Apsectrotanypus johnsoni	0	0	0	0
Argia	0	1	0	3
Argia fumipennis	0	0	0	0
Argia moesta	0	0	0	0
Argia sedula	0	0	0	0
Argia tibialis	0	0	0	0
Arrenurus	1	0	0	0
Arrenurus problecornis	0	3	0	0
Astacidae	0	0	0	0
Atherix	0	0	0	0
Atractides	0	0	0	1
Atrichopogon	0	0	0	1
Aulodrilus pigueti	1	0	0	0
Aulodrilus pluriseta	0	0	0	0
Baetidae	0	0	0	0
Baetis	0	1	0	0
Baetis intercalaris	2	0	0	0
Baetisca rogersi	0	0	0	0
Beardius truncatus	0	0	2	0
Belostoma	0	0	0	0
Belostomatidae	0	0	0	0
Bivalvia	0	0	0	0
Bourletiella	0	0	0	0
Boyeria vinosa	0	0	0	0
Brachycentrus	0	0	0	0
Brachycentrus chelatus	0	0	0	0
Brachycentrus numerosus	0	0	0	0

As Calculated / STORET station ->	20030414	19010099	21030064	26010972
Sample date ->	1/12/2000	2/1/2000	3/15/2000	1/10/2000
	SampleID	SampleID	SampleID	SampleID
	20471/BenthID	20474/BenthID	20479/BenthID	20480/BenthID
Taxon Name / SampleID/BenID ->	17104(#counted)	17107(#counted)	17112(#counted)	17113(#counted)
Brachycercus maculatus	0	0	0	0
Caecidotea	0	8	6	0
Caecidotea racovitzai	0	0	0	0
Caenis	0	1	0	2
Caenis diminuta	0	0	0	0
Caenis hilaris	0	0	0	0
Callibaetis floridanus	0	0	0	0
Calopteryx	2	0	0	1
Calopteryx maculata	0	0	0	0
Cambaridae	0	0	0	0
Campeloma	0	3	0	0
Campeloma limum	0	0	0	0
Cassidinidea ovalis	0	0	0	0
Cecidomyiidae	0	0	0	0
Ceratopogonidae	0	0	0	0
Cernotina	0	0	0	0
Chaoborus	0	0	0	0
Chaoborus albatus	0	0	0	0
Chauliodes	0	0	0	0
Chelifera	0	0	0	0
Cheumatopsyche	8	0	0	5
Chimarra	8	0	0	0
Chironomus	0	0	0	0
Choroterpes basalis	0	0	0	0
Choroterpes hubbelli	0	0	0	0
Cladotanytarsus	1	0	4	0
Cladotanytarsus cf. daviesi	0	0	0	0
Cladotanytarsus sp. i epler	0	0	0	0
Clathrosperchon	0	0	0	0
Climacea areolaris	0	0	0	0
Clinotanypus	0	0	2	0
Coelotanypus	0	0	0	0
Coelotanypus scapularis	0	0	0	0
Coenagrionidae	2	0	0	0
Collembola	0	0	0	0
Conchapelopia	2	0	0	0
Corbicula fluminea	0	0	0	0
Corduliidae	0	0	0	0
Corydalus	0	0	0	0
Corydalus cornuta	0	0	0	0
Corydalus cornutus	0	0	0	0
Corynoneura	0	0	1	0
Corynoneura sp. b epler	0	0	0	0
Corynoneura sp. c epler	0	0	0	0
Corynoneura taris	0	0	0	0

As Calculated / STORET station ->	20030414	19010099	21030064	26010972
Sample date ->	1/12/2000	2/1/2000	3/15/2000	1/10/2000
	SampleID	SampleID	SampleID	SampleID
	20471/BenthID	20474/BenthID	20479/BenthID	20480/BenthID
Taxon Name / SampleID/BenID ->	17104(#counted)	17107(#counted)	17112(#counted)	17113(#counted)
Crangonyx	0	0	0	0
Cricotopus	0	0	0	0
Cricotopus bicinctus	0	0	0	0
Cricotopus bicinctus grp.	0	0	5	0
Cricotopus or orthocladius	0	0	0	0
Cryptochironomus	0	0	1	0
Cryptotendipes	0	0	0	0
Curculionidae	0	0	0	0
Cyrnellus fraternus	0	0	0	0
Demicryptochironomus	0	0	0	0
Dero digitata	0	0	0	0
Dero digitata complex	0	0	0	3
Dero lodeni	0	0	0	0
Dero pectinata	0	0	0	0
Dero trifida	0	0	0	0
Dero vaga	0	0	0	0
Dicrotendipes	0	0	0	0
Dicrotendipes modestus	0	0	0	0
Dicrotendipes neomodestus	0	0	0	0
Dicrotendipes simpsoni	0	0	0	0
Dicrotendipes sp. a epler	0	0	0	0
Dineutus	0	0	0	0
Dineutus discolor	0	0	0	0
Dineutus serrulatus	0	0	0	0
Diplectrona modesta	0	0	0	0
Dixa	0	0	0	0
Dixella	0	0	0	0
Djalmabatista pulcher	4	0	0	0
Dolichopodidae	0	0	0	0
Dromogomphus armatus	0	0	0	0
Dromogomphus spinosus	0	0	0	0
Dryopidae	0	0	0	0
Dubiraphia	0	0	0	0
Dubiraphia quadrinotata	0	0	0	0
Dubiraphia vittata	0	1	1	1
Dugesia	0	0	0	0
Dugesia tigrina	0	0	0	0
Eclipidrilus	3	0	0	0
Eclipidrilus palustris	0	0	0	3
Ectopria	0	0	0	0
Elimia	0	0	0	0
Elimia floridensis	0	0	0	0
Empididae	0	0	0	0
Enallagma	0	1	0	0

As Calculated / STORET station ->	20030414	19010099	21030064	26010972
Sample date ->	1/12/2000	2/1/2000	3/15/2000	1/10/2000
	SampleID	SampleID	SampleID	SampleID
	20471/BenthID	20474/BenthID	20479/BenthID	20480/BenthID
Taxon Name / SampleID/BenID ->	17104(#counted)	17107(#counted)	17112(#counted)	17113(#counted)
Enallagma cardenium	0	0	0	0
Enchytraeidae	0	1	0	0
Endotribelos hesperium	0	0	0	0
Enochrus	0	0	0	0
Ephemerellidae	0	0	0	0
Ephydridae	0	0	0	0
Epitheca	0	0	0	0
Epitheca princeps regina	0	0	0	0
Eurylophella doris	0	0	0	1
Eurylophella temporalis	0	0	0	0
Ferrissia	0	0	0	0
Gammaridae	0	0	0	0
Gammarus	0	0	3	0
Gammarus tigrinus	0	0	0	0
Gastropoda	0	0	0	0
Geayia	0	0	0	0
Gerridae	0	0	0	0
Gloiobdella elongata	0	0	0	0
Goeldichironomus fluctuans	0	0	0	0
Gomphidae	0	0	1	0
Gomphus	0	0	0	0
Gomphus minutus	0	0	0	0
Gonielmis	0	0	0	0
Gonielmis dietrichi	0	0	0	0
Grandidierella bonnieroides	0	0	0	0
Gyretes iricolor	0	0	0	0
Haber speciosus	0	0	0	0
Hagenius brevistylus	0	0	0	0
Hebetancylus excentricus	0	0	0	0
Helobdella stagnalis	0	0	0	0
Helobdella triserialis	0	0	0	0
Helopelopia	0	0	0	0
Hemerodromia	2	0	2	8
Hemiptera	0	0	0	0
Heptageniidae	0	0	0	0
Hetaerina	0	0	0	0
Hetaerina titia	0	0	0	0
Heteroplectron americanum	0	0	0	0
Hexagenia	0	0	0	0
Hexagenia bilineata	0	0	0	0
Hexagenia limbata	0	0	0	0
Hexagenia munda orlando	0	0	0	0
Hexatoma	0	0	0	0
Hyalella azteca	0	15	4	10
Hydra	0	0	0	1
Hydrachna	0	0	0	0
Hydraena marginicollis	0	0	0	0
Hydraenidae	0	0	0	0

As Calculated / STORET station ->	20030414	19010099	21030064	26010972
Sample date ->	1/12/2000	2/1/2000	3/15/2000	1/10/2000
	SampleID	SampleID	SampleID	SampleID
	20471/BenthID	20474/BenthID	20479/BenthID	20480/BenthID
Taxon Name / SampleID/BenID ->	17104(#counted)	17107(#counted)	17112(#counted)	17113(#counted)
Hydrobiidae	0	0	0	0
Hydrodroma	0	0	1	0
Hydrophilidae	0	0	0	0
Hydroporus	0	5	0	0
Hydropsyche	1	0	0	0
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	0	2	0
Hydroptila	0	0	0	0
Hydroptilidae	0	0	0	0
Hygrobates	0	0	0	0
Hygrotus	0	0	0	0
Ischnura	0	0	0	2
Ischnura hastata	0	0	0	0
Isonychia	0	0	0	0
Isoperla	0	0	0	0
Isopoda	0	0	0	0
Isotomurus	0	0	0	0
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	0	0	0
Krendowskia	0	0	2	0
Labiobaetis	0	0	0	0
Labrundinia	0	0	0	0
Labrundinia becki	0	0	0	0
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	2	0
Labrundinia pilosella	0	0	0	0
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	0
Lauterborniella agrayloides	0	8	0	0
Lebertia	0	1	0	0
Lepidoptera	0	0	0	0
Leptoceridae	0	0	0	0
Leptophlebia	0	0	0	0
Leptophlebiidae	8	13	0	0
Leuctra	0	0	0	0
Libellulidae	0	1	0	0
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	1	0	1	1
Limnophila	0	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	0	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	0	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	0	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0	0	1	0

As Calculated / STORET station ->	20030414	19010099	21030064	26010972
Sample date ->	1/12/2000	2/1/2000	3/15/2000	1/10/2000
	SampleID	SampleID	SampleID	SampleID
	20471/BenthID	20474/BenthID	20479/BenthID	20480/BenthID
Taxon Name / SampleID/BenID ->	17104(#counted)	17107(#counted)	17112(#counted)	17113(#counted)
Lype diversa	0	0	0	0
Maccaffertium	0	0	0	0
Maccaffertium smithae	0	0	0	0
Macromia	1	0	0	0
Macromia taeniolata	0	0	0	0
Macromiidae	0	0	0	0
Macronychus glabratus	0	0	0	0
Macrostemum carolina	0	0	0	0
Mayatrichia	0	0	0	0
Mayatrichia ayama	0	0	0	0
Meropelopia	0	0	0	0
Mesosmittia	0	0	0	0
Metrobates	0	0	0	0
Micrasema	0	0	0	0
Micrasema rusticum	0	0	0	0
Micrasema wataga	0	0	0	0
Microcylloepus	0	0	0	0
Microcylloepus pusillus	0	0	0	14
Micromenetus	0	0	0	0
Micromenetus dilatatus	0	0	0	0
Microtendipes pedellus	0	0	0	0
Microtendipes pedellus grp.	3	1	0	0
Microtendipes rydalensis	0	0	0	0
Microtendipes rydalensis grp.	0	0	0	0
Mideopsis	0	0	0	1
Molanna	0	0	0	0
Mooreobdella	0	0	0	0
Mooreobdella tetragon	0	0	0	0
Muscidae	0	0	0	0
Naididae	0	0	0	0
Nais behningi	0	0	0	0
Nais communis	0	0	0	0
Nais communis complex	0	0	0	1
Nais pardalis	0	0	0	0
Nais simplex	0	0	0	0
Nais variabilis	0	0	0	0
Nanocladius	0	0	0	0
Nectopsyche	0	0	0	0
Nectopsyche candida	0	0	0	0
Nectopsyche exquisita	0	0	0	0
Nectopsyche pavida	0	0	5	0
Nemertea	0	0	0	0
Neoperla	1	0	0	0
Neoperla clymene	0	0	0	0
Neoporus	0	0	0	0
Neotrichia	2	0	0	0
Neumania	0	0	0	0

As Calculated / STORET station ->	20030414	19010099	21030064	26010972
Sample date ->	1/12/2000	2/1/2000	3/15/2000	1/10/2000
	SampleID	SampleID	SampleID	SampleID
	20471/BenthID	20474/BenthID	20479/BenthID	20480/BenthID
Taxon Name / SampleID/BenID ->	17104(#counted)	17107(#counted)	17112(#counted)	17113(#counted)
Neumania distincta	0	0	0	0
Neureclipsis	0	0	0	0
Neureclipsis crepuscularis	0	0	0	0
Neurocordulia	0	0	0	0
Neurocordulia alabamensis	0	0	0	0
Neurocordulia virginiensis	0	0	0	1
Nigronia	0	0	0	0
Nigronia fasciatus	0	0	0	0
Nigronia serricornis	0	0	0	0
Nilotanypus	0	0	0	0
Nilothauma	1	0	0	0
Notogillia wetherbyi	0	0	0	0
Nyctiophylax	0	0	0	0
Odonata	0	0	0	0
Odontomyia	0	0	0	0
Oecetis	0	0	0	0
Oecetis cinerascens	0	0	0	0
Oecetis georgia	1	0	1	0
Oecetis inconspicua cmplx.	0	0	0	0
Oecetis morsei or sphyra	0	0	0	0
Oecetis parva	0	0	0	0
Oecetis persimilis	0	0	0	9
Oecetis sp. a floyd	0	0	0	0
Oecetis sp. e floyd	0	0	1	0
Ora/scirtes	0	0	0	0
Oribatei	1	0	0	0
Orthocladiinae	0	1	0	0
Orthocladiinae gen. c epler	0	0	0	0
Orthocladiinae gen. f epler	0	0	0	0
Orthocladius annectens	0	0	0	0
Orthotrichia	0	0	0	0
Oxyethira	0	0	0	0
Pachydiplax longipennis	0	0	0	0
Pagastiella	0	0	0	0
Palaemonetes	0	0	1	0
Palaemonetes kadiakensis	0	0	0	0
Palaemonetes paludosus	0	0	0	0
Palpomyia/bezzia grp.	0	0	2	1
Paracladopelma	0	0	0	0
Paracladopelma loganae	0	0	0	0
Paracladopelma undine	0	0	0	0
Paragnetina	0	0	0	0
Paragnetina fumosa	0	0	0	0

As Calculated / STORET station ->	20030414	19010099	21030064	26010972
Sample date ->	1/12/2000	2/1/2000	3/15/2000	1/10/2000
	SampleID	SampleID	SampleID	SampleID
	20471/BenthID	20474/BenthID	20479/BenthID	20480/BenthID
Taxon Name / SampleID/BenID ->	17104(#counted)	17107(#counted)	17112(#counted)	17113(#counted)
Parakiefferiella	0	0	0	0
Paralauterborniella nigrohalterale	0	0	0	0
Paraleptophlebia volitans	0	0	0	0
Parametriocnemus	4	0	0	0
Parametriocnemus sp. f epler	0	0	0	0
Paranyctiophylax	0	0	0	1
Paraplea	0	0	0	0
Paraponyx	0	0	0	0
Paratanytarsus sp. a epler	0	0	0	0
Paratanytarsus sp. c epler	0	0	15	0
Paratendipes subaequalis	0	0	0	0
Pelecypoda	0	4	0	0
Pelonomus obscurus	0	0	0	0
Peltodytes	0	0	0	0
Pentaneura inconspicua	4	0	0	0
Perlesta	0	0	0	0
Perlesta placida	0	0	0	0
Perlesta placida complex	0	0	0	0
Perlinella	0	0	0	0
Petrophila	0	0	0	0
Phaenopsectra obediens grp.	0	0	0	0
Phaenopsectra punctipes grp.	0	0	0	0
Phylocentropus	0	0	1	0
Physella	0	3	0	0
Physella cubensis	0	0	0	0
Piona	0	0	0	0
Pisidiidae	0	0	0	0
Pisidium	0	0	0	0
Planariidae	0	0	0	2
Planorbella duryi	0	0	0	0
Planorbella scalaris	0	0	0	0
Planorbidae	0	8	0	0
Platyhelminthes	0	0	0	0
Plecoptera	0	0	0	0
Plumulariidae	0	0	0	0
Polycentropodidae	1	0	0	0
Polycentropus	0	0	0	1
Polypedilum	0	0	0	0
Polypedilum aviceps	0	0	0	0
Polypedilum convictum grp.	0	0	0	32
Polypedilum fallax	0	0	1	0
Polypedilum flavum	0	0	0	0

As Calculated / STORET station ->	20030414	19010099	21030064	26010972
Sample date ->	1/12/2000	2/1/2000	3/15/2000	1/10/2000
	SampleID	SampleID	SampleID	SampleID
	20471/BenthID	20474/BenthID	20479/BenthID	20480/BenthID
Taxon Name / SampleID/BenID ->	17104(#counted)	17107(#counted)	17112(#counted)	17113(#counted)
Polypedilum halterale grp.	1	0	0	0
Polypedilum illinoense	0	0	0	0
Polypedilum illinoense grp.	0	2	2	1
Polypedilum scalaenum	0	0	0	0
Polypedilum scalaenum grp.	0	0	4	1
Polypedilum sp. a epler	0	0	0	0
Polypedilum tritum	0	0	0	0
Pomacea paludosa	0	0	4	0
Pristina aequiseta	0	0	0	3
Pristina synclites	0	0	0	0
Pristinella jenkinae	0	0	0	0
Probezzia	0	0	0	0
Procambarus	0	0	0	1
Procladius	0	0	0	0
Procladius (holotanypus)	0	0	0	0
Procloeon viridocularis	0	0	0	0
Progomphus	0	0	0	0
Progomphus obscurus	0	0	0	0
Promoresia tardella	0	0	0	0
Prostoma rubrum	0	0	0	0
Psammoryctides convolutus	0	0	0	0
Pseudochironomus	0	0	2	0
Pseudocloeon	0	0	0	5
Psychodidae	0	0	0	0
Pycnopsyche	1	0	0	0
Pyralidae	0	0	0	0
Pyrgophorus platyrachis	0	0	0	0
Ranatra kirkaldyi	0	0	0	0
Rhagovelia	0	0	0	0
Rheocricotopus	0	0	0	0
Rheocricotopus robacki	0	0	0	1
Rheocricotopus tuberculatus	0	1	0	0
Rheotanytarsus	0	0	0	0
Rheotanytarsus distinctissimus grp.	1	0	0	0
Rheotanytarsus exiguus	0	0	0	0
Rheotanytarsus exiguus grp.	6	2	0	10
Rheotanytarsus pellucidus	0	0	0	0
Scirtes	0	0	0	1
Scirtidae	0	0	0	0
Serratella deficiens	0	0	0	0
Sialis	0	0	0	0
Silvius	0	0	0	0

As Calculated / STORET station ->	20030414	19010099	21030064	26010972
Sample date ->	1/12/2000	2/1/2000	3/15/2000	1/10/2000
	SampleID	SampleID	SampleID	SampleID
	20471/BenthID	20474/BenthID	20479/BenthID	20480/BenthID
Taxon Name / SampleID/BenID ->	17104(#counted)	17107(#counted)	17112(#counted)	17113(#counted)
Simuliidae	0	0	0	0
Simulium	2	1	0	7
Slavina appendiculata	0	0	0	10
Somatogyrus walkerianus	0	0	0	0
Sperchon	0	0	0	0
Sperchonopsis	0	0	0	0
Sperchopsis	0	0	0	0
Sphaeriidae	0	0	0	0
Sphaeriidae(mollusca)	0	0	0	0
Sphaeroma	0	0	0	0
Sphaeromias	0	0	3	0
Spirosperma	0	0	0	0
Spirosperma ferox	0	0	0	0
Stelechomyia perpulchra	0	0	0	0
Stempellina	0	0	0	0
Stempellina sp. a epler	0	0	0	0
Stempellinella	0	0	0	0
Stenacron	0	2	0	0
Stenacron floridense	0	0	0	2
Stenacron interpunctatum	0	0	0	0
Stenelmis	2	2	1	0
Stenelmis decorata	0	0	0	0
Stenelmis hungerfordi	0	0	0	0
Stenochironomus	1	7	1	4
Stenonema	0	1	1	0
Stenonema exiguum	0	0	0	6
Stenonema smithae	5	0	0	0
Stratiomyidae	0	0	0	0
Stylaria lacustris	0	0	0	0
Synorthocladius	0	0	0	0
Tabanus	0	0	0	0
Taeniopteryx lita	0	0	0	0
Tanytarsus	0	0	0	0
Tanytarsus sp. a epler	11	0	0	4
Tanytarsus sp. c epler	0	1	0	0
Tanytarsus sp. d epler	0	0	0	0
Tanytarsus sp. e epler	0	0	0	0
Tanytarsus sp. g epler	0	0	0	0
Tanytarsus sp. l epler	0	0	0	0
Tanytarsus sp. m epler	0	0	0	0
Tanytarsus sp. o epler	2	0	0	0
Tanytarsus sp. r epler	0	0	0	0
Tanytarsus sp. s epler	0	0	0	0
Tanytarsus sp. t epler	0	0	12	0
Tanytarsus sp. u epler	0	0	0	0
Taphromysis bowmani	0	0	0	0

As Calculated / STORET station ->	20030414	19010099	21030064	26010972
Sample date ->	1/12/2000	2/1/2000	3/15/2000	1/10/2000
	SampleID	SampleID	SampleID	SampleID
	20471/BenthID	20474/BenthID	20479/BenthID	20480/BenthID
Taxon Name / SampleID/BenID ->	17104(#counted)	17107(#counted)	17112(#counted)	17113(#counted)
Thienemanniella	0	0	1	0
Thienemanniella lobapodema	0	0	0	0
Thienemanniella similis	0	0	0	0
Thienemanniella sp. a epler	0	0	0	0
Thienemannimyia grp.	0	2	0	0
Tipula	0	0	0	0
Tipulidae	0	0	0	0
Torrenticola	0	0	0	0
Triaenodes	5	2	0	3
Triaenodes ignitus	0	0	0	0
Triaenodes perna	0	0	0	0
Tribelos	0	0	0	0
Tribelos atrum	0	0	0	0
Tribelos fuscicornis	0	0	0	1
Tribelos jucundum	0	0	0	1
Tricorythodes albilineatus	0	0	0	0
Tubificidae	0	0	0	0
Turbellaria	0	0	0	0
Tvetenia	0	0	0	0
Tvetenia discoloripes grp.	0	0	0	0
Unionicola	0	0	0	0
Unniella multivirga	0	0	0	0
Veliidae	0	0	0	0
Xenochironomus xenolabis	0	0	0	0
Xestochironomus	0	0	0	0
Xylotopus par	0	0	0	0
Zygoptera	0	0	0	0

As Calculated / STORET station ->	20020012	22030010	33010054	33040014
Sample date ->	2/15/2000	8/22/2000	2/22/2001	2/8/2001
	SampleID	SampleID	SampleID	SampleID
	21571/BenthID	22114/BenthID	24523/BenthID	24524/BenthID
Taxon Name / SampleID/BenID ->	17864(#counted)	18267(#counted)	19456(#counted)	19457(#counted)
Ablabesmyia (karelia) grp.	0	0	0	0
Ablabesmyia hauberi	0	0	0	0
Ablabesmyia mallochi	0	1	0	1
Ablabesmyia rhamphe grp.	0	0	0	0
Acentrella parvula	0	0	0	0
Acerpenna pygmaea	0	7	0	0
Acroneuria	0	0	4	20
Acroneuria abnormis	0	0	0	0
Acroneuria arenosa	0	0	0	0
Acroneuria arenosa/evoluta	0	0	0	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	0	0	0	0
Alluaudomyia	0	0	0	0
Amnicola	0	0	0	0
Amnicola dalli	0	0	0	0
Amnicola dalli johnsoni	0	0	0	0
Amphipoda	0	0	1	0
Ancylidae	1	1	0	0
Ancyronyx	0	0	0	0
Ancyronyx variegatus	0	0	0	0
Anisocentropus pyraloides	0	0	0	0
Anopheles	0	0	0	0
Apsectrotanypus johnsoni	0	0	0	0
Argia	0	6	2	0
Argia fumipennis	0	0	0	0
Argia moesta	0	0	0	0
Argia sedula	0	0	0	0
Argia tibialis	0	0	0	0
Arrenurus	0	0	0	0
Arrenurus problecornis	0	0	0	0
Astacidae	0	0	0	0
Atherix	0	0	0	0
Atractides	0	0	0	0
Atrichopogon	1	5	0	0
Aulodrilus pigueti	0	0	0	0
Aulodrilus pluriseta	0	0	0	0
Baetidae	0	0	0	0
Baetis	0	0	0	0
Baetis intercalaris	0	0	0	0
Baetisca rogersi	0	0	0	4
Beardius truncatus	0	0	0	0
Belostoma	0	0	0	0
Belostomatidae	0	0	0	0
Bivalvia	0	0	0	0
Bourletiella	0	0	0	0
Boyeria vinosa	0	0	1	0
Brachycentrus	0	0	0	0
Brachycentrus chelatus	0	0	1	0
Brachycentrus numerosus	0	0	0	0

As Calculated / STORET station ->	20020012	22030010	33010054	33040014
Sample date ->	2/15/2000	8/22/2000	2/22/2001	2/8/2001
	SampleID	SampleID	SampleID	SampleID
	21571/BenthID	22114/BenthID	24523/BenthID	24524/BenthID
Taxon Name / SampleID/BenID ->	17864(#counted)	18267(#counted)	19456(#counted)	19457(#counted)
Brachycercus maculatus	0	0	0	0
Caecidotea	0	2	0	0
Caecidotea racovitzai	0	0	0	0
Caenis	0	1	0	2
Caenis diminuta	0	0	0	0
Caenis hilaris	0	0	0	0
Callibaetis floridanus	0	1	0	0
Calopteryx	0	0	1	0
Calopteryx maculata	0	0	0	0
Cambaridae	0	0	2	0
Campeloma	0	0	0	0
Campeloma limum	0	0	0	0
Cassidinidea ovalis	0	0	0	0
Cecidomyiidae	0	0	0	0
Ceratopogonidae	0	0	0	0
Cernotina	0	0	0	0
Chaoborus	0	0	0	0
Chaoborus albatus	0	0	0	0
Chauliodes	0	0	0	0
Chelifera	0	0	0	0
Cheumatopsyche	4	0	0	26
Chimarra	0	0	6	1
Chironomus	0	0	0	0
Choroterpes basalis	0	0	0	0
Choroterpes hubbelli	0	0	0	0
Cladotanytarsus	0	0	0	0
Cladotanytarsus cf. daviesi	0	0	0	0
Cladotanytarsus sp. i epler	0	0	0	0
Clathrosperchon	0	1	0	0
Climacea areolaris	0	0	0	0
Clinotanypus	0	0	1	0
Coelotanypus	0	0	0	0
Coelotanypus scapularis	0	0	0	0
Coenagrionidae	0	0	0	0
Collembola	0	0	0	0
Conchapelopia	0	0	3	0
Corbicula fluminea	0	0	0	0
Corduliidae	0	0	0	0
Corydalus	0	0	0	0
Corydalus cornuta	0	0	0	0
Corydalus cornutus	2	0	0	1
Corynoneura	0	0	0	0
Corynoneura sp. b epler	0	0	0	0
Corynoneura sp. c epler	0	0	0	0
Corynoneura taris	0	0	0	0

As Calculated / STORET station ->	20020012	22030010	33010054	33040014
Sample date ->	2/15/2000	8/22/2000	2/22/2001	2/8/2001
	SampleID	SampleID	SampleID	SampleID
	21571/BenthID	22114/BenthID	24523/BenthID	24524/BenthID
Taxon Name / SampleID/BenID ->	17864(#counted)	18267(#counted)	19456(#counted)	19457(#counted)
Crangonyx	0	0	0	0
Cricotopus	0	0	0	0
Cricotopus bicinctus	0	0	1	0
Cricotopus bicinctus grp.	4	0	0	0
Cricotopus or orthocladius	0	1	0	0
Cryptochironomus	0	0	0	0
Cryptotendipes	2	0	0	0
Curculionidae	0	0	0	0
Cyrnellus fraternus	0	0	0	0
Demicryptochironomus	0	0	0	0
Dero digitata	0	0	0	0
Dero digitata complex	0	0	0	0
Dero lodeni	0	0	0	0
Dero pectinata	0	0	0	0
Dero trifida	0	0	0	0
Dero vaga	0	0	0	0
Dicrotendipes	0	0	0	0
Dicrotendipes modestus	0	1	0	0
Dicrotendipes neomodestus	0	0	0	0
Dicrotendipes simpsoni	0	0	0	0
Dicrotendipes sp. a epler	0	0	0	0
Dineutus	0	0	0	3
Dineutus discolor	0	0	0	0
Dineutus serrulatus	0	0	0	0
Diplectrona modesta	0	0	0	0
Dixa	0	0	0	0
Dixella	0	0	0	0
Djalmabatista pulcher	0	1	0	0
Dolichopodidae	0	0	0	0
Dromogomphus armatus	0	0	0	0
Dromogomphus spinosus	0	0	0	0
Dryopidae	0	0	0	0
Dubiraphia	0	0	0	0
Dubiraphia quadrinotata	0	0	0	0
Dubiraphia vittata	2	3	4	0
Dugesia	0	0	0	0
Dugesia tigrina	0	0	0	0
Eclipidrilus	0	0	3	0
Eclipidrilus palustris	1	0	0	0
Ectopria	0	0	1	0
Elimia	0	4	0	0
Elimia floridensis	2	0	0	0
Empididae	0	0	0	0
Enallagma	0	3	0	0

As Calculated / STORET station ->	20020012	22030010	33010054	33040014
Sample date ->	2/15/2000	8/22/2000	2/22/2001	2/8/2001
	SampleID	SampleID	SampleID	SampleID
	21571/BenthID	22114/BenthID	24523/BenthID	24524/BenthID
Taxon Name / SampleID/BenID ->	17864(#counted)	18267(#counted)	19456(#counted)	19457(#counted)
Enallagma cardenium	0	0	0	0
Enchytraeidae	0	0	1	0
Endotribelos hesperium	0	0	0	0
Enochrus	0	0	0	0
Ephemerellidae	0	0	0	0
Ephydridae	0	0	0	0
Epitheca	0	0	0	0
Epitheca princeps regina	0	0	0	0
Eurylophella doris	0	0	14	0
Eurylophella temporalis	0	0	0	0
Ferrissia	0	0	0	0
Gammaridae	0	1	0	0
Gammarus	0	0	0	0
Gammarus tigrinus	0	0	0	0
Gastropoda	0	0	0	0
Geayia	0	0	0	0
Gerridae	0	0	0	0
Gloiobdella elongata	0	0	0	0
Goeldichironomus fluctuans	0	0	0	0
Gomphidae	0	0	0	0
Gomphus	0	0	0	0
Gomphus minutus	0	0	0	0
Gonielmis	0	0	0	3
Gonielmis dietrichi	0	0	6	0
Grandidierella bonnieroides	0	0	0	0
Gyretes iricolor	0	0	0	0
Haber speciosus	2	0	0	0
Hagenius brevistylus	0	0	0	0
Hebetancylus excentricus	0	0	0	0
Helobdella stagnalis	0	0	0	0
Helobdella triserialis	0	0	0	0
Helopelopia	0	0	0	0
Hemerodromia	3	0	4	5
Hemiptera	0	0	0	0
Heptageniidae	0	0	6	4
Hetaerina	0	0	0	0
Hetaerina titia	1	0	0	0
Heteroplectron americanum	0	0	0	0
Hexagenia	0	0	2	6
Hexagenia bilineata	0	0	0	0
Hexagenia limbata	0	0	0	0
Hexagenia munda orlando	0	0	0	0
Hexatoma	0	0	1	0
Hyalella azteca	28	7	0	0
Hydra	0	0	0	0
Hydrachna	0	0	0	0
Hydraena marginicollis	0	0	0	0
Hydraenidae	0	0	0	0

As Calculated / STORET station ->	20020012	22030010	33010054	33040014
Sample date ->	2/15/2000	8/22/2000	2/22/2001	2/8/2001
	SampleID	SampleID	SampleID	SampleID
	21571/BenthID	22114/BenthID	24523/BenthID	24524/BenthID
Taxon Name / SampleID/BenID ->	17864(#counted)	18267(#counted)	19456(#counted)	19457(#counted)
Hydrobiidae	0	5	0	0
Hydrodroma	0	3	1	0
Hydrophilidae	0	0	0	0
Hydroporus	0	0	0	0
Hydropsyche	0	0	2	0
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	1	0	0
Hydroptila	0	0	2	0
Hydroptilidae	0	0	0	2
Hygrobates	0	0	0	0
Hygrotus	0	0	0	0
Ischnura	0	0	0	0
Ischnura hastata	0	0	0	0
Isonychia	0	0	0	0
Isoperla	0	0	0	0
Isopoda	0	0	0	0
Isotomurus	0	0	0	0
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	0	0	0
Krendowskia	0	0	0	0
Labiobaetis	0	0	0	0
Labrundinia	0	0	0	0
Labrundinia becki	0	1	0	0
Labrundinia johannseni	0	1	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	0	0	0	0
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	0
Lauterborniella agrayloides	0	0	0	0
Lebertia	0	0	0	3
Lepidoptera	0	1	0	0
Leptoceridae	0	0	0	0
Leptophlebia	0	0	0	0
Leptophlebiidae	0	0	1	0
Leuctra	0	0	0	0
Libellulidae	0	0	0	0
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	5	0	1	1
Limnophila	0	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	0	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	0	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	0	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0	0	0	0

As Calculated / STORET station ->	20020012	22030010	33010054	33040014
Sample date ->	2/15/2000	8/22/2000	2/22/2001	2/8/2001
	SampleID	SampleID	SampleID	SampleID
	21571/BenthID	22114/BenthID	24523/BenthID	24524/BenthID
Taxon Name / SampleID/BenID ->	17864(#counted)	18267(#counted)	19456(#counted)	19457(#counted)
Lype diversa	0	0	0	2
Maccaffertium	0	0	0	0
Maccaffertium smithae	0	0	0	0
Macromia	0	0	0	0
Macromia taeniolata	0	0	0	0
Macromiidae	0	0	0	0
Macronychus glabratus	0	0	1	3
Macrostemum carolina	0	0	0	0
Mayatrichia	0	0	0	0
Mayatrichia ayama	0	0	0	0
Meropelopia	0	0	0	0
Mesosmittia	0	0	0	0
Metrobates	0	0	0	0
Micrasema	0	0	0	0
Micrasema rusticum	0	0	0	1
Micrasema wataga	0	0	0	0
Microcylloepus	0	0	0	0
Microcylloepus pusillus	3	0	1	0
Micromenetus	0	0	0	0
Micromenetus dilatatus	0	0	0	0
Microtendipes pedellus	0	0	0	0
Microtendipes pedellus grp.	0	0	0	0
Microtendipes rydalensis	0	0	0	0
Microtendipes rydalensis grp.	0	0	0	0
Mideopsis	0	0	0	0
Molanna	0	0	0	0
Mooreobdella	0	0	0	0
Mooreobdella tetragon	0	0	0	0
Muscidae	0	0	0	0
Naididae	0	0	0	1
Nais behningi	0	0	0	0
Nais communis	0	1	0	0
Nais communis complex	0	0	0	0
Nais pardalis	0	0	0	0
Nais simplex	0	0	0	0
Nais variabilis	0	0	0	0
Nanocladius	0	0	0	0
Nectopsyche	1	0	0	0
Nectopsyche candida	0	0	0	0
Nectopsyche exquisita	0	0	0	0
Nectopsyche pavida	0	0	0	0
Nemertea	0	0	0	0
Neoperla	0	0	0	0
Neoperla clymene	0	0	0	0
Neoporus	0	0	0	0
Neotrichia	3	0	0	0
Neumania	0	0	0	0

As Calculated / STORET station ->	20020012	22030010	33010054	33040014
Sample date ->	2/15/2000	8/22/2000	2/22/2001	2/8/2001
	SampleID	SampleID	SampleID	SampleID
	21571/BenthID	22114/BenthID	24523/BenthID	24524/BenthID
Taxon Name / SampleID/BenID ->	17864(#counted)	18267(#counted)	19456(#counted)	19457(#counted)
Neumania distincta	0	0	0	0
Neureclipsis	0	0	0	1
Neureclipsis crepuscularis	0	0	0	0
Neurocordulia	0	0	0	0
Neurocordulia alabamensis	0	0	0	0
Neurocordulia virginiensis	0	0	0	0
Nigronia	0	0	0	0
Nigronia fasciatus	0	0	0	0
Nigronia serricornis	0	0	1	0
Nilotanypus	0	0	0	0
Nilothauma	0	0	0	0
Notogillia wetherbyi	0	0	0	0
Nyctiophylax	0	0	0	0
Odonata	0	0	0	0
Odontomyia	0	2	0	0
Oecetis	1	2	0	0
Oecetis cinerascens	0	0	0	0
Oecetis georgia	0	0	2	0
Oecetis inconspicua cmplx.	0	0	0	0
Oecetis morsei or sphyra	0	0	0	0
Oecetis parva	0	0	0	0
Oecetis persimilis	0	0	0	0
Oecetis sp. a floyd	0	0	0	0
Oecetis sp. e floyd	0	0	0	0
Ora/scirtes	0	0	0	0
Oribatei	0	0	0	0
Orthocladiinae	0	0	0	0
Orthocladiinae gen. c epler	0	0	0	0
Orthocladiinae gen. f epler	0	0	0	0
Orthocladius annectens	0	0	1	0
Orthotrichia	0	0	0	0
Oxyethira	0	0	1	0
Pachydiplax longipennis	0	0	0	0
Pagastiella	0	0	0	0
Palaemonetes	4	2	0	0
Palaemonetes kadiakensis	0	0	0	0
Palaemonetes paludosus	0	0	0	0
Palpomyia/bezzia grp.	0	0	0	0
Paracladopelma	0	0	0	1
Paracladopelma loganae	0	0	0	0
Paracladopelma undine	0	0	0	0
Paragnetina	0	0	0	0
Paragnetina fumosa	0	0	0	0

As Calculated / STORET station ->	20020012	22030010	33010054	33040014
Sample date ->	2/15/2000	8/22/2000	2/22/2001	2/8/2001
	SampleID	SampleID	SampleID	SampleID
	21571/BenthID	22114/BenthID	24523/BenthID	24524/BenthID
Taxon Name / SampleID/BenID ->	17864(#counted)	18267(#counted)	19456(#counted)	19457(#counted)
Parakiefferiella	0	0	0	0
Paralauterborniella nigrohalterale	0	0	0	0
Paraleptophlebia volitans	0	0	0	0
Parametriocnemus	0	0	1	1
Parametriocnemus sp. f epler	0	0	0	0
Paranyctiophylax	0	0	0	1
Paraplea	0	0	0	0
Paraponyx	0	0	0	0
Paratanytarsus sp. a epler	0	0	0	0
Paratanytarsus sp. c epler	0	2	0	0
Paratendipes subaequalis	0	0	0	0
Pelecypoda	1	0	0	1
Pelonomus obscurus	0	0	0	0
Peltodytes	0	0	0	0
Pentaneura inconspicua	1	1	0	0
Perlesta	0	0	2	0
Perlesta placida	0	0	0	0
Perlesta placida complex	0	0	0	0
Perlinella	0	0	0	0
Petrophila	0	0	0	0
Phaenopsectra obediens grp.	0	0	0	0
Phaenopsectra punctipes grp.	0	0	0	0
Phylocentropus	0	0	0	0
Physella	0	0	0	0
Physella cubensis	0	0	0	0
Piona	0	0	0	0
Pisidiidae	0	0	0	0
Pisidium	0	0	0	0
Planariidae	0	0	0	0
Planorbella duryi	0	0	0	0
Planorbella scalaris	0	0	0	0
Planorbidae	0	0	0	0
Platyhelminthes	0	0	0	0
Plecoptera	0	0	0	0
Plumulariidae	0	0	0	0
Polycentropodidae	0	0	0	0
Polycentropus	0	0	0	0
Polypedilum	0	0	0	0
Polypedilum aviceps	0	0	1	21
Polypedilum convictum grp.	13	3	7	0
Polypedilum fallax	0	0	0	1
Polypedilum flavum	0	0	0	0

As Calculated / STORET station ->	20020012	22030010	33010054	33040014
Sample date ->	2/15/2000	8/22/2000	2/22/2001	2/8/2001
	SampleID	SampleID	SampleID	SampleID
	21571/BenthID	22114/BenthID	24523/BenthID	24524/BenthID
Taxon Name / SampleID/BenID ->	17864(#counted)	18267(#counted)	19456(#counted)	19457(#counted)
Polypedilum halterale grp.	0	0	0	0
Polypedilum illinoense	0	0	0	0
Polypedilum illinoense grp.	0	9	0	0
Polypedilum scalaenum	0	0	0	0
Polypedilum scalaenum grp.	2	2	0	1
Polypedilum sp. a epler	0	0	0	0
Polypedilum tritum	0	5	0	0
Pomacea paludosa	0	0	0	0
Pristina aequiseta	0	0	0	0
Pristina synclites	0	0	0	0
Pristinella jenkinae	0	0	0	0
Probezzia	0	0	0	0
Procambarus	0	0	0	0
Procladius	0	0	1	0
Procladius (holotanypus)	0	0	0	0
Procloeon viridocularis	0	0	0	0
Progomphus	0	0	0	1
Progomphus obscurus	0	0	0	0
Promoresia tardella	0	0	0	0
Prostoma rubrum	0	0	0	0
Psammoryctides convolutus	0	0	0	0
Pseudochironomus	0	0	1	0
Pseudocloeon	5	0	0	0
Psychodidae	0	0	0	0
Pycnopsyche	0	0	0	0
Pyralidae	0	0	0	0
Pyrgophorus platyrachis	0	0	0	0
Ranatra kirkaldyi	0	0	0	0
Rhagovelia	0	1	0	0
Rheocricotopus	0	0	0	0
Rheocricotopus robacki	0	0	0	1
Rheocricotopus tuberculatus	0	0	0	0
Rheotanytarsus	0	0	0	0
Rheotanytarsus distinctissimus grp.	0	1	0	0
Rheotanytarsus exiguus	0	0	0	0
Rheotanytarsus exiguus grp.	18	0	3	5
Rheotanytarsus pellucidus	0	0	0	0
Scirtes	0	0	0	0
Scirtidae	0	0	0	0
Serratella deficiens	0	0	0	0
Sialis	0	0	0	0
Silvius	0	0	0	0

As Calculated / STORET station ->	20020012	22030010	33010054	33040014
Sample date ->	2/15/2000	8/22/2000	2/22/2001	2/8/2001
	SampleID	SampleID	SampleID	SampleID
	21571/BenthID	22114/BenthID	24523/BenthID	24524/BenthID
Taxon Name / SampleID/BenID ->	17864(#counted)	18267(#counted)	19456(#counted)	19457(#counted)
Simuliidae	0	0	0	0
Simulium	3	0	5	10
Slavina appendiculata	0	0	0	0
Somatogyrus walkerianus	0	0	0	0
Sperchon	0	0	0	0
Sperchonopsis	0	0	0	0
Sperchopsis	0	0	0	0
Sphaeriidae	0	0	0	0
Sphaeriidae(mollusca)	0	0	0	0
Sphaeroma	0	0	0	0
Sphaeromias	2	0	0	0
Spirosperma	0	0	0	0
Spirosperma ferox	0	0	0	0
Stelechomyia perpulchra	2	0	0	0
Stempellina	0	0	0	0
Stempellina sp. a epler	0	0	0	0
Stempellinella	0	0	0	0
Stenacron	0	0	0	0
Stenacron floridense	0	0	0	0
Stenacron interpunctatum	0	0	0	0
Stenelmis	3	2	13	4
Stenelmis decorata	0	0	0	0
Stenelmis hungerfordi	0	0	0	0
Stenochironomus	0	0	1	1
Stenonema	0	0	0	0
Stenonema exiguum	2	0	0	0
Stenonema smithae	0	0	0	0
Stratiomyidae	0	0	0	0
Stylaria lacustris	0	0	0	0
Synorthocladius	0	0	0	1
Tabanus	0	0	0	0
Taeniopteryx lita	0	0	0	0
Tanytarsus	0	0	1	1
Tanytarsus sp. a epler	0	0	0	0
Tanytarsus sp. c epler	0	0	0	0
Tanytarsus sp. d epler	0	0	0	0
Tanytarsus sp. e epler	0	0	0	0
Tanytarsus sp. g epler	0	0	0	0
Tanytarsus sp. l epler	1	1	0	0
Tanytarsus sp. m epler	1	1	0	0
Tanytarsus sp. o epler	0	0	0	0
Tanytarsus sp. r epler	0	0	0	0
Tanytarsus sp. s epler	0	0	0	0
Tanytarsus sp. t epler	0	0	0	0
Tanytarsus sp. u epler	0	0	0	0
Taphromysis bowmani	0	0	0	0

As Calculated / STORET station ->	20020012	22030010	33010054	33040014
Sample date ->	2/15/2000	8/22/2000	2/22/2001	2/8/2001
	SampleID	SampleID	SampleID	SampleID
	21571/BenthID	22114/BenthID	24523/BenthID	24524/BenthID
Taxon Name / SampleID/BenID ->	17864(#counted)	18267(#counted)	19456(#counted)	19457(#counted)
Thienemanniella	0	0	0	0
Thienemanniella lobapodema	0	0	0	0
Thienemanniella similis	0	0	0	0
Thienemanniella sp. a epler	0	0	0	0
Thienemannimyia grp.	0	0	0	5
Tipula	0	0	0	0
Tipulidae	0	0	0	0
Torrenticola	0	0	0	0
Triaenodes	0	0	0	0
Triaenodes ignitus	0	0	0	0
Triaenodes perna	0	2	0	0
Tribelos	0	0	0	0
Tribelos atrum	0	0	0	0
Tribelos fuscicornis	0	2	0	0
Tribelos jucundum	0	0	0	2
Tricorythodes albilineatus	7	10	0	0
Tubificidae	0	0	0	0
Turbellaria	0	0	0	0
Tvetenia	0	1	0	0
Tvetenia discoloripes grp.	0	0	0	0
Unionicola	0	0	0	0
Unniella multivirga	0	0	0	0
Veliidae	0	0	0	0
Xenochironomus xenolabis	0	0	0	0
Xestochironomus	6	0	0	0
Xylotopus par	0	0	0	0
Zygoptera	0	0	0	0

As Calculated / STORET station ->	22030010	20020317	26011019	19010042
Sample date ->	9/18/2001	9/4/2001	9/5/2001	7/10/2001
	SampleID	SampleID	SampleID	SampleID
	25672/BenthID	26863/BenthID	26865/BenthID	26868/BenthID
Taxon Name / SampleID/BenID ->	19985(#counted)	20697(#counted)	20699(#counted)	20702(#counted)
Ablabesmyia (karelia) grp.	0	0	0	0
Ablabesmyia hauberi	0	0	0	0
Ablabesmyia mallochi	0	0	1	3
Ablabesmyia rhamphe grp.	0	0	0	0
Acentrella parvula	0	0	0	0
Acerpenna pygmaea	0	0	0	0
Acroneuria	0	0	0	0
Acroneuria abnormis	0	0	0	0
Acroneuria arenosa	0	0	0	0
Acroneuria arenosa/evoluta	0	0	0	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	0	0	0	0
Alluaudomyia	0	0	0	0
Amnicola	0	0	0	0
Amnicola dalli	7	0	0	0
Amnicola dalli johnsoni	0	0	0	0
Amphipoda	0	0	0	0
Ancylidae	0	0	1	0
Ancyronyx	0	0	0	0
Ancyronyx variegatus	0	0	0	1
Anisocentropus pyraloides	0	0	0	0
Anopheles	0	0	0	0
Apsectrotanypus johnsoni	0	0	0	0
Argia	6	0	3	0
Argia fumipennis	0	0	0	0
Argia moesta	0	0	0	0
Argia sedula	0	0	0	0
Argia tibialis	0	0	0	0
Arrenurus	1	0	1	0
Arrenurus problecornis	0	0	0	0
Astacidae	0	0	0	0
Atherix	0	0	0	0
Atractides	0	0	0	0
Atrichopogon	0	0	0	0
Aulodrilus pigueti	0	0	0	1
Aulodrilus pluriseta	0	0	0	0
Baetidae	0	0	0	0
Baetis	0	0	0	0
Baetis intercalaris	0	0	0	0
Baetisca rogersi	0	0	0	0
Beardius truncatus	0	0	0	0
Belostoma	0	0	0	1
Belostomatidae	0	0	0	0
Bivalvia	0	0	0	0
Bourletiella	0	0	0	0
Boyeria vinosa	0	0	0	0
Brachycentrus	0	0	0	0
Brachycentrus chelatus	0	0	0	0
Brachycentrus numerosus	0	0	0	0

As Calculated / STORET station ->	22030010	20020317	26011019	19010042
Sample date ->	9/18/2001	9/4/2001	9/5/2001	7/10/2001
	SampleID	SampleID	SampleID	SampleID
	25672/BenthID	26863/BenthID	26865/BenthID	26868/BenthID
Taxon Name / SampleID/BenID ->	19985(#counted)	20697(#counted)	20699(#counted)	20702(#counted)
Brachycercus maculatus	0	0	0	0
Caecidotea	4	0	0	14
Caecidotea racovitzai	0	0	0	0
Caenis	0	0	17	0
Caenis diminuta	0	0	0	0
Caenis hilaris	0	0	0	0
Callibaetis floridanus	0	5	1	0
Calopteryx	0	0	1	0
Calopteryx maculata	0	0	0	0
Cambaridae	0	1	0	0
Campeloma	0	0	0	0
Campeloma limum	0	0	0	2
Cassidinidea ovalis	0	0	0	0
Cecidomyiidae	0	0	0	0
Ceratopogonidae	0	0	0	0
Cernotina	0	0	0	0
Chaoborus	0	0	0	0
Chaoborus albatus	0	0	0	0
Chauliodes	0	0	0	0
Chelifera	0	0	0	0
Cheumatopsyche	0	35	2	0
Chimarra	0	0	0	1
Chironomus	0	0	0	0
Choroterpes basalis	0	0	4	0
Choroterpes hubbelli	0	0	0	0
Cladotanytarsus	0	0	1	0
Cladotanytarsus cf. daviesi	0	0	0	0
Cladotanytarsus sp. i epler	0	0	0	0
Clathrosperchon	0	1	0	0
Climacea areolaris	0	0	0	0
Clinotanypus	0	0	0	0
Coelotanypus	0	0	0	1
Coelotanypus scapularis	0	0	0	0
Coenagrionidae	0	0	0	0
Collembola	0	0	0	0
Conchapelopia	0	0	0	0
Corbicula fluminea	0	0	0	0
Corduliidae	0	0	0	0
Corydalus	0	0	0	0
Corydalus cornuta	0	0	0	0
Corydalus cornutus	0	0	1	0
Corynoneura	0	0	0	0
Corynoneura sp. b epler	0	0	0	0
Corynoneura sp. c epler	0	0	0	0
Corynoneura taris	0	0	0	0

As Calculated / STORET station ->	22030010	20020317	26011019	19010042
Sample date ->	9/18/2001	9/4/2001	9/5/2001	7/10/2001
	SampleID	SampleID	SampleID	SampleID
	25672/BenthID	26863/BenthID	26865/BenthID	26868/BenthID
Taxon Name / SampleID/BenID ->	19985(#counted)	20697(#counted)	20699(#counted)	20702(#counted)
Crangonyx	0	0	0	4
Cricotopus	1	0	0	0
Cricotopus bicinctus	0	13	0	0
Cricotopus bicinctus grp.	0	0	0	0
Cricotopus or orthocladius	0	0	0	0
Cryptochironomus	0	0	0	0
Cryptotendipes	0	0	0	0
Curculionidae	0	0	0	0
Cyrnellus fraternus	0	0	0	0
Demicryptochironomus	0	0	0	0
Dero digitata	0	0	0	0
Dero digitata complex	0	0	0	0
Dero lodeni	0	0	1	0
Dero pectinata	0	0	0	1
Dero trifida	0	0	0	0
Dero vaga	0	0	0	0
Dicrotendipes	0	0	0	0
Dicrotendipes modestus	0	0	0	0
Dicrotendipes neomodestus	0	0	0	0
Dicrotendipes simpsoni	0	0	0	0
Dicrotendipes sp. a epler	0	0	0	0
Dineutus	0	0	0	0
Dineutus discolor	0	0	0	0
Dineutus serrulatus	0	0	0	0
Diplectrona modesta	0	0	0	0
Dixa	0	0	0	0
Dixella	0	0	0	0
Djalmabatista pulcher	0	1	2	0
Dolichopodidae	0	0	0	0
Dromogomphus armatus	0	0	0	0
Dromogomphus spinosus	0	0	0	0
Dryopidae	0	0	0	0
Dubiraphia	0	0	0	0
Dubiraphia quadrinotata	0	0	0	0
Dubiraphia vittata	9	0	13	5
Dugesia	0	0	0	0
Dugesia tigrina	0	0	0	0
Eclipidrilus	0	0	0	2
Eclipidrilus palustris	0	0	0	0
Ectopria	0	0	0	0
Elimia	10	0	0	0
Elimia floridensis	0	0	0	0
Empididae	0	0	0	0
Enallagma	0	0	0	0

As Calculated / STORET station ->	22030010	20020317	26011019	19010042
Sample date ->	9/18/2001	9/4/2001	9/5/2001	7/10/2001
	SampleID	SampleID	SampleID	SampleID
	25672/BenthID	26863/BenthID	26865/BenthID	26868/BenthID
Taxon Name / SampleID/BenID ->	19985(#counted)	20697(#counted)	20699(#counted)	20702(#counted)
Enallagma cardenium	0	0	0	0
Enchytraeidae	0	0	0	0
Endotribelos hesperium	0	0	0	0
Enochrus	0	0	0	0
Ephemerellidae	0	0	0	0
Ephydridae	0	0	0	0
Epitheca	0	0	0	0
Epitheca princeps regina	0	0	0	0
Eurylophella doris	0	0	0	0
Eurylophella temporalis	0	0	0	0
Ferrissia	0	0	0	0
Gammaridae	0	0	0	0
Gammarus	0	6	0	0
Gammarus tigrinus	0	0	0	0
Gastropoda	0	0	0	0
Geayia	0	0	0	0
Gerridae	0	0	0	0
Gloiobdella elongata	0	0	0	0
Goeldichironomus fluctuans	0	0	0	0
Gomphidae	0	0	0	0
Gomphus	0	0	3	0
Gomphus minutus	0	0	0	0
Gonielmis	0	0	0	0
Gonielmis dietrichi	0	0	0	0
Grandidierella bonnieroides	0	0	0	0
Gyretes iricolor	0	0	0	0
Haber speciosus	1	0	0	0
Hagenius brevistylus	0	0	0	0
Hebetancylus excentricus	0	0	0	0
Helobdella stagnalis	0	0	0	0
Helobdella triserialis	0	0	0	0
Helopelopia	0	0	0	0
Hemerodromia	0	0	0	0
Hemiptera	0	0	0	0
Heptageniidae	0	3	2	0
Hetaerina	0	0	0	0
Hetaerina titia	0	0	0	0
Heteroplectron americanum	0	0	0	0
Hexagenia	1	0	0	0
Hexagenia bilineata	0	0	0	0
Hexagenia limbata	0	0	0	0
Hexagenia munda orlando	0	0	0	0
Hexatoma	0	0	0	0
Hyalella azteca	11	10	2	0
Hydra	0	0	0	0
Hydrachna	0	0	0	0
Hydraena marginicollis	0	0	0	0
Hydraenidae	0	0	0	0

As Calculated / STORET station ->	22030010	20020317	26011019	19010042
Sample date ->	9/18/2001	9/4/2001	9/5/2001	7/10/2001
	SampleID	SampleID	SampleID	SampleID
	25672/BenthID	26863/BenthID	26865/BenthID	26868/BenthID
Taxon Name / SampleID/BenID ->	19985(#counted)	20697(#counted)	20699(#counted)	20702(#counted)
Hydrobiidae	0	0	0	0
Hydrodroma	6	0	0	1
Hydrophilidae	0	0	0	0
Hydroporus	0	0	0	0
Hydropsyche	0	11	2	0
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	0	0	0
Hydroptila	0	3	0	0
Hydroptilidae	0	0	0	0
Hygrobates	0	0	0	0
Hygrotus	0	0	0	0
Ischnura	0	0	0	2
Ischnura hastata	0	0	0	0
Isonychia	0	0	0	0
Isoperla	0	0	0	0
Isopoda	0	0	0	0
Isotomurus	0	0	0	0
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	0	0	0
Krendowskia	2	0	2	0
Labiobaetis	0	0	0	0
Labrundinia	0	0	0	1
Labrundinia becki	0	0	0	0
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	0	0	0	0
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	0
Lauterborniella agrayloides	0	0	0	0
Lebertia	1	0	0	0
Lepidoptera	0	0	0	0
Leptoceridae	0	0	0	0
Leptophlebia	0	0	0	0
Leptophlebiidae	0	0	0	0
Leuctra	0	0	0	0
Libellulidae	0	0	0	0
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	0	3	3	3
Limnophila	0	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	0	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	0	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	0	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0	0	0	0

As Calculated / STORET station ->	22030010	20020317	26011019	19010042
Sample date ->	9/18/2001	9/4/2001	9/5/2001	7/10/2001
	SampleID	SampleID	SampleID	SampleID
	25672/BenthID	26863/BenthID	26865/BenthID	26868/BenthID
Taxon Name / SampleID/BenID ->	19985(#counted)	20697(#counted)	20699(#counted)	20702(#counted)
Lype diversa	0	0	0	0
Maccaffertium	0	0	0	0
Maccaffertium smithae	0	0	0	0
Macromia	0	0	0	0
Macromia taeniolata	0	0	0	0
Macromiidae	0	0	0	0
Macronychus glabratus	0	0	0	0
Macrostemum carolina	0	0	0	0
Mayatrichia	0	0	0	0
Mayatrichia ayama	0	0	0	0
Meropelopia	0	0	0	0
Mesosmittia	0	0	0	0
Metrobates	0	0	0	0
Micrasema	1	0	0	0
Micrasema rusticum	0	0	0	0
Micrasema wataga	0	0	0	0
Microcylloepus	0	0	0	0
Microcylloepus pusillus	2	2	5	0
Micromenetus	0	0	3	0
Micromenetus dilatatus	0	0	0	7
Microtendipes pedellus	0	0	0	0
Microtendipes pedellus grp.	0	0	0	0
Microtendipes rydalensis	0	0	0	0
Microtendipes rydalensis grp.	0	0	0	0
Mideopsis	0	0	0	0
Molanna	0	0	0	0
Mooreobdella	0	0	0	0
Mooreobdella tetragon	0	0	0	0
Muscidae	0	0	0	0
Naididae	0	0	0	0
Nais behningi	0	0	0	0
Nais communis	0	0	0	0
Nais communis complex	0	0	0	0
Nais pardalis	0	0	0	0
Nais simplex	0	0	0	0
Nais variabilis	0	0	0	0
Nanocladius	0	0	0	0
Nectopsyche	0	0	3	0
Nectopsyche candida	0	0	0	0
Nectopsyche exquisita	0	0	0	0
Nectopsyche pavida	0	0	0	0
Nemertea	0	0	0	0
Neoperla	0	0	0	0
Neoperla clymene	0	0	0	0
Neoporus	0	0	0	0
Neotrichia	0	0	0	0
Neumania	1	0	0	0

As Calculated / STORET station ->	22030010	20020317	26011019	19010042
Sample date ->	9/18/2001	9/4/2001	9/5/2001	7/10/2001
	SampleID	SampleID	SampleID	SampleID
	25672/BenthID	26863/BenthID	26865/BenthID	26868/BenthID
Taxon Name / SampleID/BenID ->	19985(#counted)	20697(#counted)	20699(#counted)	20702(#counted)
Neumania distincta	0	0	0	0
Neureclipsis	0	0	0	0
Neureclipsis crepuscularis	0	0	0	0
Neurocordulia	0	0	0	0
Neurocordulia alabamensis	0	0	1	0
Neurocordulia virginiensis	0	0	0	0
Nigronia	0	0	0	0
Nigronia fasciatus	0	0	0	0
Nigronia serricornis	0	0	0	0
Nilotanypus	0	0	0	0
Nilothauma	0	0	0	0
Notogillia wetherbyi	1	0	0	0
Nyctiophylax	0	0	0	0
Odonata	0	0	0	0
Odontomyia	0	0	0	0
Oecetis	0	2	0	0
Oecetis cinerascens	0	0	0	0
Oecetis georgia	0	0	0	0
Oecetis inconspicua cmplx.	0	0	0	0
Oecetis morsei or sphyra	0	0	0	0
Oecetis parva	0	0	0	0
Oecetis persimilis	0	0	0	0
Oecetis sp. a floyd	0	0	0	0
Oecetis sp. e floyd	0	0	0	0
Ora/scirtes	0	0	0	0
Oribatei	0	0	0	0
Orthocladiinae	0	1	0	0
Orthocladiinae gen. c epler	0	0	0	0
Orthocladiinae gen. f epler	0	0	0	0
Orthocladius annectens	0	0	0	0
Orthotrichia	0	0	0	0
Oxyethira	0	0	3	0
Pachydiplax longipennis	0	0	0	0
Pagastiella	0	0	0	0
Palaemonetes	0	0	0	0
Palaemonetes kadiakensis	0	0	0	0
Palaemonetes paludosus	2	0	0	0
Palpomyia/bezzia grp.	0	0	0	0
Paracladopelma	0	0	0	0
Paracladopelma loganae	0	0	0	0
Paracladopelma undine	0	0	0	0
Paragnetina	0	0	0	0
Paragnetina fumosa	0	0	0	0

As Calculated / STORET station ->	22030010	20020317	26011019	19010042
Sample date ->	9/18/2001	9/4/2001	9/5/2001	7/10/2001
	SampleID	SampleID	SampleID	SampleID
	25672/BenthID	26863/BenthID	26865/BenthID	26868/BenthID
Taxon Name / SampleID/BenID ->	19985(#counted)	20697(#counted)	20699(#counted)	20702(#counted)
Parakiefferiella	0	0	0	0
Paralauterborniella nigrohalterale	0	0	0	0
Paraleptophlebia volitans	0	0	0	0
Parametriocnemus	0	0	0	0
Parametriocnemus sp. f epler	0	0	0	0
Paranyctiophylax	0	0	0	0
Paraplea	0	0	0	0
Paraponyx	1	0	0	0
Paratanytarsus sp. a epler	0	0	0	0
Paratanytarsus sp. c epler	0	0	0	1
Paratendipes subaequalis	0	0	0	0
Pelecypoda	0	0	0	0
Pelonomus obscurus	0	0	0	0
Peltodytes	0	0	0	1
Pentaneura inconspicua	0	5	1	0
Perlesta	0	0	0	0
Perlesta placida	0	0	0	0
Perlesta placida complex	0	0	0	0
Perlinella	0	0	0	0
Petrophila	0	2	0	0
Phaenopsectra obediens grp.	0	0	0	0
Phaenopsectra punctipes grp.	0	0	0	1
Phylocentropus	0	0	0	0
Physella	0	0	0	0
Physella cubensis	0	0	0	0
Piona	0	0	0	0
Pisidiidae	0	0	0	0
Pisidium	0	0	0	0
Planariidae	0	0	0	1
Planorbella duryi	0	0	0	0
Planorbella scalaris	0	0	0	0
Planorbidae	0	0	0	0
Platyhelminthes	0	0	0	0
Plecoptera	0	0	0	0
Plumulariidae	0	0	0	0
Polycentropodidae	1	0	0	0
Polycentropus	0	0	0	0
Polypedilum	0	0	0	0
Polypedilum aviceps	0	0	0	0
Polypedilum convictum grp.	0	22	10	0
Polypedilum fallax	0	0	0	0
Polypedilum flavum	0	0	0	0

As Calculated / STORET station ->	22030010	20020317	26011019	19010042
Sample date ->	9/18/2001	9/4/2001	9/5/2001	7/10/2001
	SampleID	SampleID	SampleID	SampleID
	25672/BenthID	26863/BenthID	26865/BenthID	26868/BenthID
Taxon Name / SampleID/BenID ->	19985(#counted)	20697(#counted)	20699(#counted)	20702(#counted)
Polypedilum halterale grp.	0	0	0	0
Polypedilum illinoense	11	0	0	0
Polypedilum illinoense grp.	0	0	0	5
Polypedilum scalaenum	0	0	0	0
Polypedilum scalaenum grp.	0	0	0	0
Polypedilum sp. a epler	0	0	0	0
Polypedilum tritum	0	0	0	0
Pomacea paludosa	0	0	0	0
Pristina aequiseta	0	0	0	0
Pristina synclites	0	0	0	0
Pristinella jenkinae	0	0	0	0
Probezzia	0	0	0	0
Procambarus	4	0	0	0
Procladius	0	0	0	0
Procladius (holotanypus)	0	0	0	0
Procloeon viridocularis	0	0	0	0
Progomphus	0	0	0	0
Progomphus obscurus	0	0	0	0
Promoresia tardella	0	0	0	0
Prostoma rubrum	0	0	0	0
Psammoryctides convolutus	0	1	0	0
Pseudochironomus	0	5	0	0
Pseudocloeon	0	0	0	0
Psychodidae	0	0	0	0
Pycnopsyche	0	0	0	0
Pyralidae	0	0	0	0
Pyrgophorus platyrachis	0	0	0	0
Ranatra kirkaldyi	0	0	0	0
Rhagovelia	0	0	0	0
Rheocricotopus	0	0	0	0
Rheocricotopus robacki	0	0	0	0
Rheocricotopus tuberculatus	0	0	0	0
Rheotanytarsus	0	0	0	0
Rheotanytarsus distinctissimus grp.	0	0	1	0
Rheotanytarsus exiguus	0	0	0	0
Rheotanytarsus exiguus grp.	0	0	9	0
Rheotanytarsus pellucidus	0	0	0	0
Scirtes	1	0	0	0
Scirtidae	0	0	0	0
Serratella deficiens	0	0	0	0
Sialis	0	0	0	0
Silvius	0	0	0	0

As Calculated / STORET station ->	22030010	20020317	26011019	19010042
Sample date ->	9/18/2001	9/4/2001	9/5/2001	7/10/2001
	SampleID	SampleID	SampleID	SampleID
	25672/BenthID	26863/BenthID	26865/BenthID	26868/BenthID
Taxon Name / SampleID/BenID ->	19985(#counted)	20697(#counted)	20699(#counted)	20702(#counted)
Simuliidae	0	0	0	0
Simulium	0	0	0	26
Slavina appendiculata	0	0	5	1
Somatogyrus walkerianus	0	0	0	0
Sperchon	0	0	0	0
Sperchonopsis	0	0	0	0
Sperchopsis	0	0	0	0
Sphaeriidae	0	0	0	16
Sphaeriidae(mollusca)	0	0	0	0
Sphaeroma	0	2	0	0
Sphaeromias	0	0	0	0
Spirosperma	0	0	0	0
Spirosperma ferox	0	0	0	1
Stelechomyia perpulchra	0	0	0	0
Stempellina	2	0	0	0
Stempellina sp. a epler	0	0	0	0
Stempellinella	0	0	0	0
Stenacron	0	0	0	0
Stenacron floridense	0	0	0	0
Stenacron interpunctatum	2	0	0	0
Stenelmis	0	0	6	1
Stenelmis decorata	0	0	0	0
Stenelmis hungerfordi	0	0	0	0
Stenochironomus	0	1	1	0
Stenonema	0	0	0	0
Stenonema exiguum	0	0	0	0
Stenonema smithae	0	0	0	0
Stratiomyidae	0	0	0	0
Stylaria lacustris	0	0	0	0
Synorthocladius	0	0	0	0
Tabanus	0	0	0	0
Taeniopteryx lita	0	0	0	0
Tanytarsus	2	0	0	0
Tanytarsus sp. a epler	0	0	0	0
Tanytarsus sp. c epler	0	2	0	0
Tanytarsus sp. d epler	0	0	0	0
Tanytarsus sp. e epler	0	0	0	0
Tanytarsus sp. g epler	0	0	0	0
Tanytarsus sp. l epler	0	0	0	2
Tanytarsus sp. m epler	0	0	1	0
Tanytarsus sp. o epler	0	0	0	0
Tanytarsus sp. r epler	0	0	0	0
Tanytarsus sp. s epler	0	0	0	0
Tanytarsus sp. t epler	0	0	3	2
Tanytarsus sp. u epler	0	0	0	2
Taphromysis bowmani	1	0	0	0

As Calculated / STORET station ->	22030010	20020317	26011019	19010042
Sample date ->	9/18/2001	9/4/2001	9/5/2001	7/10/2001
	SampleID 25672/BenthID	SampleID 26863/BenthID	SampleID 26865/BenthID	SampleID 26868/BenthID
Taxon Name / SampleID/BenID ->	19985(#counted)	20697(#counted)	20699(#counted)	20702(#counted)
Thienemanniella	0	0	0	0
Thienemanniella lobapodema	0	0	0	0
Thienemanniella similis	0	1	0	0
Thienemanniella sp. a epler	0	0	0	0
Thienemannimyia grp.	0	0	0	0
Tipula	0	0	0	0
Tipulidae	0	0	0	0
Torrenticola	0	0	0	0
Triaenodes	0	0	0	0
Triaenodes ignitus	0	0	0	0
Triaenodes perna	0	0	0	0
Tribelos	0	0	0	0
Tribelos atrum	0	0	0	0
Tribelos fuscicornis	0	0	1	0
Tribelos jucundum	0	0	0	3
Tricorythodes albilineatus	8	4	0	0
Tubificidae	0	0	0	0
Turbellaria	0	0	0	0
Tvetenia	0	0	0	0
Tvetenia discoloripes grp.	0	0	0	0
Unionicola	0	0	0	1
Unniella multivirga	0	0	0	0
Veliidae	0	0	0	0
Xenochironomus xenolabis	0	0	0	0
Xestochironomus	0	0	0	0
Xylotopus par	0	0	0	0
Zygoptera	0	0	2	0

As Calculated / STORET station ->	BAK210GS	32030023	CLA254LR	CLA243LV
Sample date ->	11/1/2005	2/15/2006	11/14/2005	11/14/2005
	SampleID	SampleID	SampleID	SampleID
	47698/BenthID	48420/BenthID	50131/BenthID	52996/BenthID
Taxon Name / SampleID/BenID ->	32249(#counted)	33507(#counted)	33604(#counted)	33624(#counted)
Ablabesmyia (karelia) grp.	0	0	0	0
Ablabesmyia hauberi	0	0	0	0
Ablabesmyia mallochi	0	0	0	0
Ablabesmyia rhamphe grp.	0	1	0	0
Acentrella parvula	0	0	0	0
Acerpenna pygmaea	0	0	0	0
Acroneuria	0	0	0	0
Acroneuria abnormis	0	2	0	0
Acroneuria arenosa	0	0	0	0
Acroneuria arenosa/evoluta	0	0	1	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	0	0	0	0
Alluaudomyia	0	0	0	0
Amnicola	0	0	0	0
Amnicola dalli	0	0	0	0
Amnicola dalli johnsoni	0	0	0	0
Amphipoda	0	0	0	0
Ancylidae	0	0	0	0
Ancyronyx	0	0	0	0
Ancyronyx variegatus	1	1	0	1
Anisocentropus pyraloides	0	0	0	0
Anopheles	0	0	0	0
Apsectrotanypus johnsoni	0	0	0	0
Argia	4	1	0	1
Argia fumipennis	0	0	0	0
Argia moesta	0	0	0	0
Argia sedula	0	0	0	0
Argia tibialis	0	0	0	0
Arrenurus	0	0	0	0
Arrenurus problecornis	0	0	0	0
Astacidae	0	0	0	0
Atherix	0	0	0	0
Atractides	0	0	0	0
Atrichopogon	0	0	0	0
Aulodrilus pigueti	0	0	0	0
Aulodrilus pluriseta	0	0	0	0
Baetidae	0	0	1	0
Baetis	0	0	0	0
Baetis intercalaris	0	0	0	0
Baetisca rogersi	0	0	0	0
Beardius truncatus	0	0	0	0
Belostoma	0	0	0	0
Belostomatidae	0	0	0	0
Bivalvia	0	0	0	0
Bourletiella	0	0	0	0
Boyeria vinosa	0	0	0	0
Brachycentrus	0	0	0	0
Brachycentrus chelatus	0	0	0	0
Brachycentrus numerosus	0	0	0	0

As Calculated / STORET station ->	BAK210GS	32030023	CLA254LR	CLA243LV
Sample date ->	11/1/2005	2/15/2006	11/14/2005	11/14/2005
	SampleID	SampleID	SampleID	SampleID
	47698/BenthID	48420/BenthID	50131/BenthID	52996/BenthID
Taxon Name / SampleID/BenID ->	32249(#counted)	33507(#counted)	33604(#counted)	33624(#counted)
Brachycercus maculatus	0	0	0	0
Caecidotea	0	0	0	10
Caecidotea racovitzai	0	0	0	0
Caenis	0	0	0	0
Caenis diminuta	0	0	0	0
Caenis hilaris	0	0	0	0
Callibaetis floridanus	0	0	0	0
Calopteryx	0	1	0	0
Calopteryx maculata	0	0	0	0
Cambaridae	0	0	0	0
Campeloma	0	0	0	0
Campeloma limum	0	0	0	0
Cassidinidea ovalis	0	0	0	0
Cecidomyiidae	0	0	0	0
Ceratopogonidae	0	1	0	0
Cernotina	0	0	0	0
Chaoborus	0	0	0	0
Chaoborus albatus	0	0	0	0
Chauliodes	0	0	0	0
Chelifera	0	0	0	0
Cheumatopsyche	0	0	9	1
Chimarra	16	1	6	0
Chironomus	0	0	0	0
Choroterpes basalis	0	0	0	0
Choroterpes hubbelli	0	0	0	0
Cladotanytarsus	0	0	0	0
Cladotanytarsus cf. daviesi	0	0	0	0
Cladotanytarsus sp. i epler	0	4	0	0
Clathrosperchon	0	0	0	0
Climacea areolaris	0	0	0	0
Clinotanypus	0	0	0	0
Coelotanypus	0	0	0	0
Coelotanypus scapularis	0	0	0	0
Coenagrionidae	0	0	0	0
Collembola	0	0	0	0
Conchapelopia	0	0	0	0
Corbicula fluminea	0	0	0	0
Corduliidae	0	0	0	0
Corydalus	0	0	0	0
Corydalus cornuta	0	0	0	0
Corydalus cornutus	1	0	2	0
Corynoneura	0	0	0	0
Corynoneura sp. b epler	0	0	0	0
Corynoneura sp. c epler	0	0	0	0
Corynoneura taris	0	0	0	0

As Calculated / STORET station ->	BAK210GS	32030023	CLA254LR	CLA243LV
Sample date ->	11/1/2005	2/15/2006	11/14/2005	11/14/2005
	SampleID	SampleID	SampleID	SampleID
	47698/BenthID	48420/BenthID	50131/BenthID	52996/BenthID
Taxon Name / SampleID/BenID ->	32249(#counted)	33507(#counted)	33604(#counted)	33624(#counted)
Crangonyx	0	0	5	1
Cricotopus	0	0	0	0
Cricotopus bicinctus	0	0	0	0
Cricotopus bicinctus grp.	0	0	0	0
Cricotopus or orthocladius	0	0	0	0
Cryptochironomus	0	0	0	0
Cryptotendipes	0	0	0	0
Curculionidae	0	0	0	0
Cyrnellus fraternus	0	0	0	0
Demicryptochironomus	0	0	0	0
Dero digitata	0	0	0	0
Dero digitata complex	0	0	0	0
Dero lodeni	0	0	0	0
Dero pectinata	0	0	0	0
Dero trifida	0	0	0	0
Dero vaga	0	0	0	0
Dicrotendipes	0	0	0	0
Dicrotendipes modestus	0	0	0	0
Dicrotendipes neomodestus	0	0	0	0
Dicrotendipes simpsoni	0	0	0	0
Dicrotendipes sp. a epler	0	0	0	0
Dineutus	0	0	0	0
Dineutus discolor	0	0	0	0
Dineutus serrulatus	0	0	0	0
Diplectrona modesta	0	0	0	0
Dixa	0	0	0	0
Dixella	0	0	0	0
Djalmabatista pulcher	0	0	0	0
Dolichopodidae	0	0	0	0
Dromogomphus armatus	0	0	0	0
Dromogomphus spinosus	0	0	0	0
Dryopidae	0	0	0	0
Dubiraphia	0	0	0	0
Dubiraphia quadrinotata	0	0	0	0
Dubiraphia vittata	2	0	0	0
Dugesia	0	0	0	0
Dugesia tigrina	0	0	0	0
Eclipidrilus	0	1	1	3
Eclipidrilus palustris	0	0	0	0
Ectopria	0	0	0	0
Elimia	0	0	0	0
Elimia floridensis	0	0	0	0
Empididae	0	0	0	0
Enallagma	0	0	0	0

As Calculated / STORET station ->	BAK210GS	32030023	CLA254LR	CLA243LV
Sample date ->	11/1/2005	2/15/2006	11/14/2005	11/14/2005
	SampleID	SampleID	SampleID	SampleID
	47698/BenthID	48420/BenthID	50131/BenthID	52996/BenthID
Taxon Name / SampleID/BenID ->	32249(#counted)	33507(#counted)	33604(#counted)	33624(#counted)
Enallagma cardenium	0	0	0	0
Enchytraeidae	0	0	0	0
Endotribelos hesperium	0	0	0	0
Enochrus	0	0	0	0
Ephemerellidae	0	0	0	0
Ephydridae	0	0	0	0
Epitheca	0	0	0	0
Epitheca princeps regina	0	0	0	0
Eurylophella doris	0	7	2	1
Eurylophella temporalis	0	0	0	0
Ferrissia	0	0	0	0
Gammaridae	0	0	0	0
Gammarus	0	0	0	0
Gammarus tigrinus	0	0	0	0
Gastropoda	0	0	0	0
Geayia	0	0	0	0
Gerridae	0	0	0	0
Gloiobdella elongata	0	0	0	0
Goeldichironomus fluctuans	0	0	0	0
Gomphidae	0	0	0	0
Gomphus	0	0	0	0
Gomphus minutus	0	0	0	0
Gonielmis	0	0	0	0
Gonielmis dietrichi	0	0	0	0
Grandidierella bonnieroides	0	0	0	0
Gyretes iricolor	0	0	0	0
Haber speciosus	0	0	0	0
Hagenius brevistylus	0	0	0	0
Hebetancylus excentricus	0	0	0	4
Helobdella stagnalis	0	0	0	0
Helobdella triserialis	0	0	0	0
Helopelopia	0	0	0	0
Hemerodromia	2	0	0	0
Hemiptera	0	0	0	0
Heptageniidae	0	0	0	0
Hetaerina	0	0	0	0
Hetaerina titia	0	0	0	0
Heteroplectron americanum	0	0	0	0
Hexagenia	0	1	0	0
Hexagenia bilineata	0	0	0	0
Hexagenia limbata	0	0	0	0
Hexagenia munda orlando	0	0	0	0
Hexatoma	0	0	0	0
Hyalella azteca	0	0	0	0
Hydra	0	0	0	0
Hydrachna	0	0	0	0
Hydraena marginicollis	0	0	0	0
Hydraenidae	0	0	0	0

As Calculated / STORET station ->	BAK210GS	32030023	CLA254LR	CLA243LV
Sample date ->	11/1/2005	2/15/2006	11/14/2005	11/14/2005
	SampleID	SampleID	SampleID	SampleID
	47698/BenthID	48420/BenthID	50131/BenthID	52996/BenthID
Taxon Name / SampleID/BenID ->	32249(#counted)	33507(#counted)	33604(#counted)	33624(#counted)
Hydrobiidae	0	0	0	0
Hydrodroma	0	0	0	0
Hydrophilidae	0	0	0	0
Hydroporus	0	0	0	0
Hydropsyche	5	1	0	1
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	0	0	0
Hydroptila	0	0	0	0
Hydroptilidae	0	0	0	0
Hygrobates	0	0	0	0
Hygrotus	0	0	0	0
Ischnura	0	0	0	3
Ischnura hastata	0	0	0	0
Isonychia	0	0	0	0
Isoperla	0	0	0	0
Isopoda	0	0	0	0
Isotomurus	0	0	0	0
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	0	0	0
Krendowskia	0	0	0	0
Labiobaetis	0	0	0	0
Labrundinia	0	0	0	0
Labrundinia becki	0	0	0	0
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	0	0	0	0
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	0
Lauterborniella agrayloides	0	0	0	0
Lebertia	0	0	0	0
Lepidoptera	0	0	0	0
Leptoceridae	0	0	0	0
Leptophlebia	0	0	0	14
Leptophlebiidae	0	3	0	0
Leuctra	0	0	1	0
Libellulidae	0	0	0	1
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	0	2	0	0
Limnophila	0	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	0	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	0	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	0	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0	0	0	0

As Calculated / STORET station ->	BAK210GS	32030023	CLA254LR	CLA243LV
Sample date ->	11/1/2005	2/15/2006	11/14/2005	11/14/2005
	SampleID	SampleID	SampleID	SampleID
	47698/BenthID	48420/BenthID	50131/BenthID	52996/BenthID
Taxon Name / SampleID/BenID ->	32249(#counted)	33507(#counted)	33604(#counted)	33624(#counted)
Lype diversa	0	0	0	0
Maccaffertium	0	2	2	3
Maccaffertium smithae	41	0	0	0
Macromia	0	0	0	0
Macromia taeniolata	0	0	0	0
Macromiidae	0	0	0	0
Macronychus glabratus	0	0	0	0
Macrostemum carolina	0	0	0	0
Mayatrichia	0	0	0	0
Mayatrichia ayama	0	0	0	0
Meropelopia	0	0	0	0
Mesosmittia	0	0	0	0
Metrobates	0	0	0	0
Micrasema	0	0	0	0
Micrasema rusticum	0	9	0	0
Micrasema wataga	0	0	0	0
Microcylloepus	0	0	0	0
Microcylloepus pusillus	3	0	17	0
Micromenetus	0	0	0	0
Micromenetus dilatatus	0	0	0	0
Microtendipes pedellus	0	0	0	0
Microtendipes pedellus grp.	0	0	5	2
Microtendipes rydalensis	0	0	0	0
Microtendipes rydalensis grp.	0	2	0	0
Mideopsis	0	0	0	0
Molanna	0	0	0	0
Mooreobdella	0	0	0	0
Mooreobdella tetragon	0	0	0	0
Muscidae	0	0	0	0
Naididae	0	0	0	0
Nais behningi	0	0	0	0
Nais communis	0	0	0	0
Nais communis complex	0	0	0	0
Nais pardalis	0	0	0	0
Nais simplex	0	0	0	0
Nais variabilis	0	0	0	0
Nanocladius	0	0	0	0
Nectopsyche	0	0	0	0
Nectopsyche candida	0	0	0	0
Nectopsyche exquisita	0	0	0	0
Nectopsyche pavida	0	0	0	0
Nemertea	0	0	0	0
Neoperla	0	0	1	0
Neoperla clymene	0	0	0	0
Neoporus	0	0	0	0
Neotrichia	0	0	0	0
Neumania	0	0	0	0

As Calculated / STORET station ->	BAK210GS	32030023	CLA254LR	CLA243LV
Sample date ->	11/1/2005	2/15/2006	11/14/2005	11/14/2005
	SampleID	SampleID	SampleID	SampleID
	47698/BenthID	48420/BenthID	50131/BenthID	52996/BenthID
Taxon Name / SampleID/BenID ->	32249(#counted)	33507(#counted)	33604(#counted)	33624(#counted)
Neumania distincta	0	0	0	0
Neureclipsis	0	0	0	0
Neureclipsis crepuscularis	0	0	0	0
Neurocordulia	0	0	0	0
Neurocordulia alabamensis	0	0	0	0
Neurocordulia virginiensis	0	0	0	0
Nigronia	0	0	0	0
Nigronia fasciatus	0	0	0	0
Nigronia serricornis	0	0	0	0
Nilotanypus	0	0	0	0
Nilothauma	0	0	0	0
Notogillia wetherbyi	0	0	0	0
Nyctiophylax	0	0	0	0
Odonata	0	0	0	0
Odontomyia	0	0	0	0
Oecetis	2	0	0	0
Oecetis cinerascens	0	0	0	0
Oecetis georgia	0	0	0	0
Oecetis inconspicua cmplx.	0	0	0	0
Oecetis morsei or sphyra	0	0	0	0
Oecetis parva	0	0	0	0
Oecetis persimilis	0	0	0	0
Oecetis sp. a floyd	0	0	0	0
Oecetis sp. e floyd	0	0	0	0
Ora/scirtes	0	0	0	0
Oribatei	0	0	0	0
Orthocladiinae	0	0	0	0
Orthocladiinae gen. c epler	0	0	0	0
Orthocladiinae gen. f epler	0	0	0	0
Orthocladius annectens	0	0	0	0
Orthotrichia	0	0	0	0
Oxyethira	0	0	0	0
Pachydiplax longipennis	0	0	0	0
Pagastiella	0	0	0	0
Palaemonetes	0	0	0	0
Palaemonetes kadiakensis	0	0	0	0
Palaemonetes paludosus	0	0	0	0
Palpomyia/bezzia grp.	0	0	0	0
Paracladopelma	0	0	0	0
Paracladopelma loganae	0	3	0	0
Paracladopelma undine	0	0	0	0
Paragnetina	0	0	0	0
Paragnetina fumosa	0	0	0	0

As Calculated / STORET station ->	BAK210GS	32030023	CLA254LR	CLA243LV
Sample date ->	11/1/2005	2/15/2006	11/14/2005	11/14/2005
	SampleID	SampleID	SampleID	SampleID
	47698/BenthID	48420/BenthID	50131/BenthID	52996/BenthID
Taxon Name / SampleID/BenID ->	32249(#counted)	33507(#counted)	33604(#counted)	33624(#counted)
Parakiefferiella	0	0	0	0
Paralauterborniella nigrohalterale	0	1	0	0
Paraleptophlebia volitans	0	0	0	0
Parametriocnemus	0	2	0	0
Parametriocnemus sp. f epler	0	0	0	0
Paranyctiophylax	0	0	0	0
Paraplea	0	0	0	0
Paraponyx	0	0	0	0
Paratanytarsus sp. a epler	0	0	0	0
Paratanytarsus sp. c epler	0	0	0	0
Paratendipes subaequalis	0	0	0	0
Pelecypoda	0	0	0	0
Pelonomus obscurus	0	0	0	0
Peltodytes	0	0	0	0
Pentaneura inconspicua	0	0	1	0
Perlesta	0	0	0	0
Perlesta placida	0	0	0	0
Perlesta placida complex	0	2	0	0
Perlinella	0	1	0	0
Petrophila	0	0	0	0
Phaenopsectra obediens grp.	0	0	0	0
Phaenopsectra punctipes grp.	0	0	0	0
Phylocentropus	0	0	0	0
Physella	0	0	0	0
Physella cubensis	0	0	0	0
Piona	0	0	0	0
Pisidiidae	0	0	0	0
Pisidium	0	0	0	0
Planariidae	0	0	0	0
Planorbella duryi	0	0	0	0
Planorbella scalaris	0	0	0	0
Planorbidae	0	0	0	0
Platyhelminthes	0	0	0	0
Plecoptera	0	0	0	0
Plumulariidae	0	0	0	0
Polycentropodidae	0	0	0	0
Polycentropus	0	0	0	0
Polypedilum	0	0	0	0
Polypedilum aviceps	0	4	0	0
Polypedilum convictum grp.	0	0	0	0
Polypedilum fallax	0	0	0	0
Polypedilum flavum	5	0	29	10

As Calculated / STORET station ->	BAK210GS	32030023	CLA254LR	CLA243LV
Sample date ->	11/1/2005	2/15/2006	11/14/2005	11/14/2005
	SampleID	SampleID	SampleID	SampleID
	47698/BenthID	48420/BenthID	50131/BenthID	52996/BenthID
Taxon Name / SampleID/BenID ->	32249(#counted)	33507(#counted)	33604(#counted)	33624(#counted)
Polypedilum halterale grp.	0	0	0	0
Polypedilum illinoense	0	0	0	0
Polypedilum illinoense grp.	0	0	1	1
Polypedilum scalaenum	0	0	0	0
Polypedilum scalaenum grp.	0	2	0	1
Polypedilum sp. a epler	0	0	0	1
Polypedilum tritum	0	0	0	0
Pomacea paludosa	0	0	0	0
Pristina aequiseta	0	0	0	0
Pristina synclites	0	0	0	0
Pristinella jenkinae	0	0	0	0
Probezzia	0	0	0	0
Procambarus	0	0	0	0
Procladius	0	0	0	0
Procladius (holotanypus)	0	0	0	0
Procloeon viridocularis	0	0	0	0
Progomphus	0	0	0	0
Progomphus obscurus	0	0	0	0
Promoresia tardella	0	6	0	0
Prostoma rubrum	0	0	0	0
Psammoryctides convolutus	0	0	0	0
Pseudochironomus	0	0	0	0
Pseudocloeon	0	0	0	0
Psychodidae	0	0	0	0
Pycnopsyche	0	0	0	0
Pyralidae	0	0	0	0
Pyrgophorus platyrachis	0	0	0	0
Ranatra kirkaldyi	0	0	0	0
Rhagovelia	0	0	0	0
Rheocricotopus	0	0	3	0
Rheocricotopus robacki	0	0	0	0
Rheocricotopus tuberculatus	0	0	0	0
Rheotanytarsus	0	0	0	0
Rheotanytarsus distinctissimus grp.	0	0	0	0
Rheotanytarsus exiguus	0	0	0	0
Rheotanytarsus exiguus grp.	6	4	1	19
Rheotanytarsus pellucidus	0	1	0	0
Scirtes	0	0	0	0
Scirtidae	0	0	0	0
Serratella deficiens	0	0	0	0
Sialis	0	0	0	0
Silvius	0	1	0	0

As Calculated / STORET station ->	BAK210GS	32030023	CLA254LR	CLA243LV
Sample date ->	11/1/2005	2/15/2006	11/14/2005	11/14/2005
	SampleID	SampleID	SampleID	SampleID
	47698/BenthID	48420/BenthID	50131/BenthID	52996/BenthID
Taxon Name / SampleID/BenID ->	32249(#counted)	33507(#counted)	33604(#counted)	33624(#counted)
Simuliidae	0	0	0	0
Simulium	1	16	1	2
Slavina appendiculata	0	0	2	0
Somatogyrus walkerianus	0	0	0	0
Sperchon	0	0	0	0
Sperchonopsis	0	0	0	0
Sperchopsis	0	0	0	0
Sphaeriidae	0	0	0	0
Sphaeriidae(mollusca)	0	0	0	0
Sphaeroma	0	0	0	0
Sphaeromias	0	0	0	0
Spirosperma	0	0	0	2
Spirosperma ferox	0	0	0	0
Stelechomyia perpulchra	0	0	0	2
Stempellina	0	0	0	0
Stempellina sp. a epler	0	0	0	0
Stempellinella	0	0	0	0
Stenacron	0	1	0	0
Stenacron floridense	0	0	0	0
Stenacron interpunctatum	0	0	0	0
Stenelmis	1	0	9	3
Stenelmis decorata	0	0	0	0
Stenelmis hungerfordi	0	0	0	0
Stenochironomus	8	1	1	4
Stenonema	0	0	0	0
Stenonema exiguum	0	0	0	0
Stenonema smithae	0	0	0	0
Stratiomyidae	0	0	0	0
Stylaria lacustris	0	0	0	0
Synorthocladius	0	0	0	0
Tabanus	0	0	0	0
Taeniopteryx lita	0	1	0	0
Tanytarsus	0	0	0	0
Tanytarsus sp. a epler	0	0	0	1
Tanytarsus sp. c epler	2	0	0	1
Tanytarsus sp. d epler	0	2	0	0
Tanytarsus sp. e epler	0	0	0	0
Tanytarsus sp. g epler	0	0	0	0
Tanytarsus sp. l epler	0	0	3	9
Tanytarsus sp. m epler	0	2	0	0
Tanytarsus sp. o epler	0	0	0	0
Tanytarsus sp. r epler	0	0	0	0
Tanytarsus sp. s epler	0	0	0	0
Tanytarsus sp. t epler	0	0	0	0
Tanytarsus sp. u epler	0	0	0	0
Taphromysis bowmani	0	0	0	0

As Calculated / STORET station ->	BAK210GS	32030023	CLA254LR	CLA243LV
Sample date ->	11/1/2005	2/15/2006	11/14/2005	11/14/2005
	SampleID 47698/BenthID	SampleID 48420/BenthID	SampleID 50131/BenthID	SampleID 52996/BenthID
Taxon Name / SampleID/BenID ->	32249(#counted)	33507(#counted)	33604(#counted)	33624(#counted)
Thienemanniella	0	0	0	1
Thienemanniella lobapodema	0	0	0	0
Thienemanniella similis	0	0	0	0
Thienemanniella sp. a epler	0	0	0	0
Thienemannimyia grp.	6	2	1	0
Tipula	0	0	0	0
Tipulidae	0	0	0	0
Torrenticola	0	0	0	0
Triaenodes	0	0	0	0
Triaenodes ignitus	0	0	0	0
Triaenodes perna	0	0	0	0
Tribelos	0	0	0	0
Tribelos atrum	0	0	0	0
Tribelos fuscicornis	0	0	0	1
Tribelos jucundum	0	10	0	1
Tricorythodes albilineatus	0	0	0	0
Tubificidae	0	0	0	0
Turbellaria	0	0	0	0
Tvetenia	0	0	0	0
Tvetenia discoloripes grp.	0	0	0	0
Unionicola	0	0	0	0
Unniella multivirga	0	0	0	1
Veliidae	0	0	0	0
Xenochironomus xenolabis	0	0	0	0
Xestochironomus	0	0	0	0
Xylotopus par	0	0	0	0
Zygoptera	0	0	0	0

As Calculated / STORET station ->	LEV502GS	PUT308GS	21010008	BAK210GS
Sample date ->	12/6/2005	12/13/2005	4/24/2006	3/20/2006
	SampleID	SampleID	SampleID	SampleID
	52471/BenthID	52912/BenthID	53274/BenthID	53732/BenthID
Taxon Name / SampleID/BenID ->	34244(#counted)	34645(#counted)	34807(#counted)	35065(#counted)
Ablabesmyia (karelia) grp.	0	0	0	0
Ablabesmyia hauberi	0	0	0	0
Ablabesmyia mallochi	0	0	0	0
Ablabesmyia rhamphe grp.	0	0	0	0
Acentrella parvula	1	0	0	0
Acerpenna pygmaea	3	0	0	0
Acroneuria	0	0	0	0
Acroneuria abnormis	0	0	0	0
Acroneuria arenosa	0	0	0	0
Acroneuria arenosa/evoluta	0	0	0	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	0	0	0	0
Alluaudomyia	0	0	0	0
Amnicola	0	0	0	0
Amnicola dalli	0	0	0	0
Amnicola dalli johnsoni	0	0	0	0
Amphipoda	0	2	0	0
Ancylidae	1	0	0	0
Ancyronyx	0	0	0	0
Ancyronyx variegatus	0	0	0	0
Anisocentropus pyraloides	0	0	0	0
Anopheles	0	0	0	0
Apsectrotanypus johnsoni	0	0	0	0
Argia	0	0	0	1
Argia fumipennis	0	0	0	0
Argia moesta	0	0	0	0
Argia sedula	0	0	0	0
Argia tibialis	0	0	0	0
Arrenurus	0	0	0	0
Arrenurus problecornis	0	0	0	0
Astacidae	0	0	0	0
Atherix	0	0	0	0
Atractides	0	0	3	0
Atrichopogon	0	0	0	0
Aulodrilus pigueti	0	0	0	0
Aulodrilus pluriseta	0	0	0	0
Baetidae	0	0	0	0
Baetis	0	0	0	0
Baetis intercalaris	1	0	0	0
Baetisca rogersi	0	0	0	0
Beardius truncatus	0	0	0	0
Belostoma	0	0	0	0
Belostomatidae	0	0	0	0
Bivalvia	1	1	0	0
Bourletiella	0	0	0	0
Boyeria vinosa	0	1	0	0
Brachycentrus	0	0	0	0
Brachycentrus chelatus	0	0	0	0
Brachycentrus numerosus	0	0	0	0

As Calculated / STORET station ->	LEV502GS	PUT308GS	21010008	BAK210GS
Sample date ->	12/6/2005	12/13/2005	4/24/2006	3/20/2006
	SampleID	SampleID	SampleID	SampleID
	52471/BenthID	52912/BenthID	53274/BenthID	53732/BenthID
Taxon Name / SampleID/BenID ->	34244(#counted)	34645(#counted)	34807(#counted)	35065(#counted)
Brachycercus maculatus	0	0	0	0
Caecidotea	0	8	0	0
Caecidotea racovitzai	0	0	0	0
Caenis	4	0	1	0
Caenis diminuta	0	0	0	0
Caenis hilaris	0	0	0	0
Callibaetis floridanus	0	0	0	0
Calopteryx	0	0	0	0
Calopteryx maculata	0	0	0	0
Cambaridae	0	0	0	0
Campeloma	0	0	0	0
Campeloma limum	0	0	0	0
Cassidinidea ovalis	0	0	0	0
Cecidomyiidae	0	0	0	0
Ceratopogonidae	0	0	0	0
Cernotina	0	0	0	0
Chaoborus	0	0	0	0
Chaoborus albatus	0	0	0	0
Chauliodes	0	0	0	0
Chelifera	0	0	0	0
Cheumatopsyche	4	4	2	0
Chimarra	5	5	3	4
Chironomus	0	0	0	0
Choroterpes basalis	0	0	0	0
Choroterpes hubbelli	0	0	0	0
Cladotanytarsus	0	0	0	0
Cladotanytarsus cf. daviesi	0	0	0	0
Cladotanytarsus sp. i epler	0	0	0	0
Clathrosperchon	0	0	0	0
Climacea areolaris	0	1	0	0
Clinotanypus	0	0	0	0
Coelotanypus	0	0	0	0
Coelotanypus scapularis	0	0	0	0
Coenagrionidae	2	0	0	0
Collembola	0	0	0	0
Conchapelopia	0	0	0	0
Corbicula fluminea	0	0	1	0
Corduliidae	0	0	0	0
Corydalus	0	0	0	0
Corydalus cornuta	0	0	0	0
Corydalus cornutus	1	1	0	0
Corynoneura	0	0	0	0
Corynoneura sp. b epler	0	0	0	0
Corynoneura sp. c epler	0	0	0	0
Corynoneura taris	0	0	0	0

As Calculated / STORET station ->	LEV502GS	PUT308GS	21010008	BAK210GS
Sample date ->	12/6/2005	12/13/2005	4/24/2006	3/20/2006
	SampleID	SampleID	SampleID	SampleID
	52471/BenthID	52912/BenthID	53274/BenthID	53732/BenthID
Taxon Name / SampleID/BenID ->	34244(#counted)	34645(#counted)	34807(#counted)	35065(#counted)
Crangonyx	2	0	0	1
Cricotopus	0	0	0	0
Cricotopus bicinctus	0	0	0	0
Cricotopus bicinctus grp.	0	0	0	0
Cricotopus or orthocladius	0	0	0	0
Cryptochironomus	0	0	0	0
Cryptotendipes	0	0	0	0
Curculionidae	0	0	0	0
Cyrnellus fraternus	0	0	0	0
Demicryptochironomus	0	0	0	0
Dero digitata	0	0	0	0
Dero digitata complex	0	0	0	0
Dero lodeni	0	0	0	0
Dero pectinata	0	0	0	0
Dero trifida	0	0	0	0
Dero vaga	0	0	0	0
Dicrotendipes	0	0	0	0
Dicrotendipes modestus	0	0	0	0
Dicrotendipes neomodestus	1	0	0	0
Dicrotendipes simpsoni	0	0	0	0
Dicrotendipes sp. a epler	0	0	0	0
Dineutus	0	0	0	0
Dineutus discolor	0	0	0	0
Dineutus serrulatus	0	0	0	0
Diplectrona modesta	0	0	0	0
Dixa	0	0	0	0
Dixella	0	0	0	0
Djalmabatista pulcher	0	0	0	0
Dolichopodidae	0	0	0	0
Dromogomphus armatus	0	0	0	0
Dromogomphus spinosus	0	0	0	0
Dryopidae	0	0	0	0
Dubiraphia	0	0	0	0
Dubiraphia quadrinotata	0	0	0	0
Dubiraphia vittata	4	0	0	0
Dugesia	0	0	0	0
Dugesia tigrina	0	0	0	0
Eclipidrilus	0	0	1	9
Eclipidrilus palustris	0	0	0	0
Ectopria	0	0	0	0
Elimia	0	0	0	0
Elimia floridensis	0	0	0	0
Empididae	0	0	0	0
Enallagma	0	1	0	0

As Calculated / STORET station ->	LEV502GS	PUT308GS	21010008	BAK210GS
Sample date ->	12/6/2005	12/13/2005	4/24/2006	3/20/2006
	SampleID	SampleID	SampleID	SampleID
	52471/BenthID	52912/BenthID	53274/BenthID	53732/BenthID
Taxon Name / SampleID/BenID ->	34244(#counted)	34645(#counted)	34807(#counted)	35065(#counted)
Enallagma cardenium	0	0	0	0
Enchytraeidae	0	0	0	5
Endotribelos hesperium	0	0	0	0
Enochrus	1	0	0	0
Ephemerellidae	0	0	0	0
Ephydridae	0	0	0	0
Epitheca	0	0	0	0
Epitheca princeps regina	0	0	0	0
Eurylophella doris	0	0	0	0
Eurylophella temporalis	0	0	0	0
Ferrissia	0	0	0	0
Gammaridae	0	0	0	0
Gammarus	0	0	0	0
Gammarus tigrinus	0	0	0	0
Gastropoda	0	0	0	0
Geayia	0	0	0	0
Gerridae	0	0	0	0
Gloiobdella elongata	0	0	0	0
Goeldichironomus fluctuans	0	0	0	0
Gomphidae	0	0	0	0
Gomphus	0	0	0	0
Gomphus minutus	0	0	0	0
Gonielmis	0	0	0	0
Gonielmis dietrichi	0	0	0	0
Grandidierella bonnieroides	0	0	0	0
Gyretes iricolor	0	0	0	0
Haber speciosus	0	0	0	0
Hagenius brevistylus	0	0	0	0
Hebetancylus excentricus	0	0	0	0
Helobdella stagnalis	0	0	0	0
Helobdella triserialis	0	0	0	0
Helopelopia	0	0	0	0
Hemerodromia	0	1	0	0
Hemiptera	0	0	0	0
Heptageniidae	0	0	0	0
Hetaerina	0	0	0	0
Hetaerina titia	0	0	0	0
Heteroplectron americanum	0	0	0	0
Hexagenia	0	0	0	0
Hexagenia bilineata	0	0	0	0
Hexagenia limbata	0	0	0	0
Hexagenia munda orlando	0	0	0	0
Hexatoma	0	0	0	0
Hyalella azteca	0	0	0	0
Hydra	0	0	0	0
Hydrachna	0	0	0	0
Hydraena marginicollis	1	0	0	0
Hydraenidae	0	0	0	0

As Calculated / STORET station ->	LEV502GS	PUT308GS	21010008	BAK210GS
Sample date ->	12/6/2005	12/13/2005	4/24/2006	3/20/2006
	SampleID	SampleID	SampleID	SampleID
	52471/BenthID	52912/BenthID	53274/BenthID	53732/BenthID
Taxon Name / SampleID/BenID ->	34244(#counted)	34645(#counted)	34807(#counted)	35065(#counted)
Hydrobiidae	0	0	0	0
Hydrodroma	0	0	0	0
Hydrophilidae	0	0	0	0
Hydroporus	0	0	0	0
Hydropsyche	3	0	0	0
Hydropsyche decalda	0	4	0	0
Hydropsychidae	0	0	0	0
Hydroptila	0	0	0	0
Hydroptilidae	0	0	0	0
Hygrobates	0	0	0	0
Hygrotus	0	0	0	0
Ischnura	0	0	0	0
Ischnura hastata	0	0	0	0
Isonychia	0	0	2	0
Isoperla	0	0	0	0
Isopoda	0	0	0	0
Isotomurus	0	0	0	0
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	0	0	0
Krendowskia	0	0	0	0
Labiobaetis	0	0	0	0
Labrundinia	0	0	0	0
Labrundinia becki	0	0	0	0
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	0	0	0	0
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	0
Lauterborniella agrayloides	0	0	0	0
Lebertia	0	0	0	0
Lepidoptera	0	0	0	0
Leptoceridae	0	0	0	0
Leptophlebia	0	0	0	0
Leptophlebiidae	0	3	0	0
Leuctra	0	0	0	0
Libellulidae	0	0	0	0
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	0	0	0	0
Limnophila	0	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	0	0
Liodessus affinis	1	0	0	0
Lioporeus	0	0	0	0
Lirceus	18	0	0	0
Littoridinops monroensis	0	0	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0	0	0	0

As Calculated / STORET station ->	LEV502GS	PUT308GS	21010008	BAK210GS
Sample date ->	12/6/2005	12/13/2005	4/24/2006	3/20/2006
	SampleID	SampleID	SampleID	SampleID
	52471/BenthID	52912/BenthID	53274/BenthID	53732/BenthID
Taxon Name / SampleID/BenID ->	34244(#counted)	34645(#counted)	34807(#counted)	35065(#counted)
Lype diversa	0	0	0	0
Maccaffertium	8	10	0	3
Maccaffertium smithae	0	0	4	0
Macromia	0	1	1	0
Macromia taeniolata	0	0	0	0
Macromiidae	0	0	0	0
Macronychus glabratus	1	1	0	0
Macrostemum carolina	0	0	0	0
Mayatrichia	0	0	0	0
Mayatrichia ayama	0	0	0	0
Meropelopia	0	0	0	0
Mesosmittia	0	0	0	0
Metrobates	0	0	0	0
Micrasema	0	0	0	0
Micrasema rusticum	0	0	0	0
Micrasema wataga	0	0	0	0
Microcylloepus	0	0	0	0
Microcylloepus pusillus	1	12	0	0
Micromenetus	0	0	0	0
Micromenetus dilatatus	4	0	0	0
Microtendipes pedellus	0	0	0	0
Microtendipes pedellus grp.	0	5	0	0
Microtendipes rydalensis	0	0	0	0
Microtendipes rydalensis grp.	0	0	0	0
Mideopsis	0	0	0	0
Molanna	0	0	0	0
Mooreobdella	0	0	0	0
Mooreobdella tetragon	0	0	0	0
Muscidae	0	0	0	0
Naididae	0	0	0	0
Nais behningi	0	0	1	0
Nais communis	0	0	0	0
Nais communis complex	0	3	0	0
Nais pardalis	0	0	0	0
Nais simplex	0	0	0	0
Nais variabilis	0	0	0	0
Nanocladius	0	0	0	0
Nectopsyche	0	0	0	0
Nectopsyche candida	0	0	0	0
Nectopsyche exquisita	0	0	0	0
Nectopsyche pavida	0	0	0	0
Nemertea	1	0	0	0
Neoperla	0	0	0	0
Neoperla clymene	0	0	4	0
Neoporus	0	0	0	0
Neotrichia	0	0	1	0
Neumania	0	0	0	0

As Calculated / STORET station ->	LEV502GS	PUT308GS	21010008	BAK210GS
Sample date ->	12/6/2005	12/13/2005	4/24/2006	3/20/2006
	SampleID	SampleID	SampleID	SampleID
	52471/BenthID	52912/BenthID	53274/BenthID	53732/BenthID
Taxon Name / SampleID/BenID ->	34244(#counted)	34645(#counted)	34807(#counted)	35065(#counted)
Neumania distincta	0	0	0	0
Neureclipsis	0	0	0	0
Neureclipsis crepuscularis	0	0	0	0
Neurocordulia	0	5	0	0
Neurocordulia alabamensis	0	0	0	0
Neurocordulia virginiensis	0	0	0	0
Nigronia	0	0	0	0
Nigronia fasciatus	0	0	0	0
Nigronia serricornis	0	0	0	0
Nilotanypus	0	0	0	0
Nilothauma	0	0	0	0
Notogillia wetherbyi	0	0	0	0
Nyctiophylax	0	0	0	0
Odonata	0	0	0	0
Odontomyia	0	0	0	0
Oecetis	0	0	0	1
Oecetis cinerascens	0	0	0	0
Oecetis georgia	0	0	0	0
Oecetis inconspicua cmplx.	0	0	0	0
Oecetis morsei or sphyra	0	0	0	0
Oecetis parva	0	0	0	0
Oecetis persimilis	0	0	0	0
Oecetis sp. a floyd	0	0	0	0
Oecetis sp. e floyd	0	0	0	0
Ora/scirtes	1	0	0	0
Oribatei	0	0	0	0
Orthocladiinae	0	0	0	0
Orthocladiinae gen. c epler	0	0	0	0
Orthocladiinae gen. f epler	0	0	0	0
Orthocladius annectens	0	0	0	0
Orthotrichia	0	0	0	0
Oxyethira	0	0	0	0
Pachydiplax longipennis	0	0	0	0
Pagastiella	0	0	0	0
Palaemonetes	0	0	0	0
Palaemonetes kadiakensis	0	0	0	0
Palaemonetes paludosus	0	0	0	0
Palpomyia/bezzia grp.	0	0	0	0
Paracladopelma	0	1	0	0
Paracladopelma loganae	0	0	0	0
Paracladopelma undine	0	0	0	0
Paragnetina	0	0	0	0
Paragnetina fumosa	0	0	0	0

As Calculated / STORET station ->	LEV502GS	PUT308GS	21010008	BAK210GS
Sample date ->	12/6/2005	12/13/2005	4/24/2006	3/20/2006
	SampleID	SampleID	SampleID	SampleID
	52471/BenthID	52912/BenthID	53274/BenthID	53732/BenthID
Taxon Name / SampleID/BenID ->	34244(#counted)	34645(#counted)	34807(#counted)	35065(#counted)
Parakiefferiella	0	0	0	0
Paralauterborniella nigrohalterale	0	0	0	0
Paraleptophlebia volitans	0	0	0	0
Parametriocnemus	0	0	1	0
Parametriocnemus sp. f epler	0	0	0	0
Paranyctiophylax	0	0	0	0
Paraplea	1	0	0	0
Paraponyx	0	0	0	0
Paratanytarsus sp. a epler	0	0	0	0
Paratanytarsus sp. c epler	0	0	0	0
Paratendipes subaequalis	0	0	0	0
Pelecypoda	0	0	0	0
Pelonomus obscurus	0	0	0	0
Peltodytes	0	0	0	0
Pentaneura inconspicua	0	1	1	0
Perlesta	0	0	0	0
Perlesta placida	0	0	0	0
Perlesta placida complex	0	0	0	0
Perlinella	0	0	0	0
Petrophila	0	0	0	0
Phaenopsectra obediens grp.	0	0	0	0
Phaenopsectra punctipes grp.	0	0	0	0
Phylocentropus	0	0	0	0
Physella	0	0	0	0
Physella cubensis	0	0	0	0
Piona	0	0	0	0
Pisidiidae	0	0	0	0
Pisidium	0	0	0	0
Planariidae	0	0	0	0
Planorbella duryi	0	0	0	0
Planorbella scalaris	0	0	0	0
Planorbidae	0	0	0	0
Platyhelminthes	0	0	0	0
Plecoptera	0	0	0	0
Plumulariidae	0	0	0	0
Polycentropodidae	0	0	0	1
Polycentropus	0	0	0	0
Polypedilum	0	0	0	0
Polypedilum aviceps	0	0	0	0
Polypedilum convictum grp.	0	0	0	0
Polypedilum fallax	0	0	0	0
Polypedilum flavum	11	3	7	3

As Calculated / STORET station ->	LEV502GS	PUT308GS	21010008	BAK210GS
Sample date ->	12/6/2005	12/13/2005	4/24/2006	3/20/2006
	SampleID	SampleID	SampleID	SampleID
	52471/BenthID	52912/BenthID	53274/BenthID	53732/BenthID
Taxon Name / SampleID/BenID ->	34244(#counted)	34645(#counted)	34807(#counted)	35065(#counted)
Polypedilum halterale grp.	0	0	0	0
Polypedilum illinoense	0	0	0	0
Polypedilum illinoense grp.	0	0	4	0
Polypedilum scalaenum	0	0	0	0
Polypedilum scalaenum grp.	0	0	11	0
Polypedilum sp. a epler	0	0	0	0
Polypedilum tritum	0	0	0	0
Pomacea paludosa	0	0	0	0
Pristina aequiseta	0	0	0	0
Pristina synclites	0	0	0	0
Pristinella jenkinae	0	0	0	0
Probezzia	0	0	0	0
Procambarus	0	0	0	0
Procladius	1	0	0	0
Procladius (holotanypus)	0	0	0	0
Procloeon viridocularis	0	0	0	0
Progomphus	0	0	0	0
Progomphus obscurus	0	2	0	0
Promoresia tardella	0	0	0	0
Prostoma rubrum	0	0	0	0
Psammoryctides convolutus	0	0	0	0
Pseudochironomus	0	0	0	0
Pseudocloeon	1	3	3	0
Psychodidae	0	0	0	0
Pycnopsyche	0	0	0	0
Pyralidae	0	0	0	0
Pyrgophorus platyrachis	0	0	0	0
Ranatra kirkaldyi	0	0	0	0
Rhagovelia	0	0	0	0
Rheocricotopus	0	0	0	0
Rheocricotopus robacki	0	6	0	0
Rheocricotopus tuberculatus	0	0	0	1
Rheotanytarsus	0	0	0	0
Rheotanytarsus distinctissimus grp.	0	0	0	0
Rheotanytarsus exiguus	0	0	0	0
Rheotanytarsus exiguus grp.	0	4	10	15
Rheotanytarsus pellucidus	0	0	0	0
Scirtes	0	0	0	0
Scirtidae	0	0	0	0
Serratella deficiens	0	0	0	0
Sialis	0	0	0	0
Silvius	0	0	0	0

As Calculated / STORET station ->	LEV502GS	PUT308GS	21010008	BAK210GS
Sample date ->	12/6/2005	12/13/2005	4/24/2006	3/20/2006
	SampleID	SampleID	SampleID	SampleID
	52471/BenthID	52912/BenthID	53274/BenthID	53732/BenthID
Taxon Name / SampleID/BenID ->	34244(#counted)	34645(#counted)	34807(#counted)	35065(#counted)
Simuliidae	0	0	0	0
Simulium	9	7	0	55
Slavina appendiculata	0	0	0	0
Somatogyrus walkerianus	0	0	0	0
Sperchon	0	0	0	0
Sperchonopsis	0	0	0	0
Sperchopsis	0	0	0	0
Sphaeriidae	0	0	0	0
Sphaeriidae(mollusca)	0	0	0	0
Sphaeroma	0	0	0	0
Sphaeromias	0	0	0	0
Spirosperma	0	0	0	0
Spirosperma ferox	0	0	0	0
Stelechomyia perpulchra	0	0	0	0
Stempellina	0	0	0	0
Stempellina sp. a epler	0	0	1	0
Stempellinella	0	0	0	0
Stenacron	0	0	0	0
Stenacron floridense	0	0	0	0
Stenacron interpunctatum	0	0	0	0
Stenelmis	1	9	23	1
Stenelmis decorata	0	0	0	0
Stenelmis hungerfordi	0	0	0	0
Stenochironomus	1	2	2	2
Stenonema	0	0	0	0
Stenonema exiguum	0	0	0	0
Stenonema smithae	0	0	0	0
Stratiomyidae	0	0	0	0
Stylaria lacustris	0	0	0	0
Synorthocladius	0	0	0	0
Tabanus	0	0	0	0
Taeniopteryx lita	0	0	0	0
Tanytarsus	0	1	0	0
Tanytarsus sp. a epler	0	0	0	0
Tanytarsus sp. c epler	0	0	5	2
Tanytarsus sp. d epler	0	0	1	0
Tanytarsus sp. e epler	0	0	0	0
Tanytarsus sp. g epler	0	0	0	0
Tanytarsus sp. l epler	1	0	1	1
Tanytarsus sp. m epler	2	0	0	0
Tanytarsus sp. o epler	0	0	0	0
Tanytarsus sp. r epler	0	0	0	0
Tanytarsus sp. s epler	0	0	0	0
Tanytarsus sp. t epler	0	0	0	0
Tanytarsus sp. u epler	0	0	0	0
Taphromysis bowmani	0	0	0	0

As Calculated / STORET station ->	LEV502GS	PUT308GS	21010008	BAK210GS
Sample date ->	12/6/2005	12/13/2005	4/24/2006	3/20/2006
	SampleID	SampleID	SampleID	SampleID
	52471/BenthID	52912/BenthID	53274/BenthID	53732/BenthID
Taxon Name / SampleID/BenID ->	34244(#counted)	34645(#counted)	34807(#counted)	35065(#counted)
Thienemanniella	0	0	1	0
Thienemanniella lobapodema	0	0	0	0
Thienemanniella similis	0	0	0	0
Thienemanniella sp. a epler	0	0	0	0
Thienemannimyia grp.	0	1	5	4
Tipula	0	0	0	1
Tipulidae	0	0	0	0
Torrenticola	0	0	0	0
Triaenodes	1	0	0	0
Triaenodes ignitus	0	0	0	0
Triaenodes perna	0	0	0	0
Tribelos	0	0	0	0
Tribelos atrum	0	0	0	0
Tribelos fuscicornis	0	0	0	0
Tribelos jucundum	0	0	0	0
Tricorythodes albilineatus	0	0	0	0
Tubificidae	3	1	0	0
Turbellaria	0	0	0	0
Tvetenia	0	0	0	0
Tvetenia discoloripes grp.	0	0	0	0
Unionicola	0	0	0	0
Unniella multivirga	0	0	0	0
Veliidae	0	0	0	0
Xenochironomus xenolabis	0	0	0	0
Xestochironomus	0	0	0	0
Xylotopus par	0	0	0	0
Zygoptera	0	0	0	0

As Calculated / STORET station ->	GLA630GS	273116508208152	GAD104US	UNI234LV
Sample date ->	1/23/2006	6/21/2006	11/14/2005	11/15/2005
	SampleID	SampleID	SampleID	SampleID
	53951/BenthID	52834/BenthID	49652/BenthID	53059/BenthID
Taxon Name / SampleID/BenID ->	35284(#counted)	35565(#counted)	35784(#counted)	36666(#counted)
Ablabesmyia (karelia) grp.	0	0	0	0
Ablabesmyia hauberi	0	0	0	0
Ablabesmyia mallochi	1	0	0	1
Ablabesmyia rhamphe grp.	0	0	0	5
Acentrella parvula	0	0	0	0
Acerpenna pygmaea	0	0	0	0
Acroneuria	0	0	0	0
Acroneuria abnormis	0	0	0	0
Acroneuria arenosa	0	0	0	0
Acroneuria arenosa/evoluta	0	0	0	0
Acroneuria lycorias	0	0	0	0
Agarodes libalis	0	0	0	0
Alluaudomyia	0	0	0	0
Amnicola	0	0	0	0
Amnicola dalli	0	0	0	0
Amnicola dalli johnsoni	0	0	0	0
Amphipoda	0	0	0	0
Ancylidae	0	0	0	0
Ancyronyx	0	0	0	0
Ancyronyx variegatus	0	0	3	9
Anisocentropus pyraloides	0	0	0	0
Anopheles	0	0	0	0
Apsectrotanypus johnsoni	0	0	0	0
Argia	0	0	0	0
Argia fumipennis	0	0	0	0
Argia moesta	0	0	0	0
Argia sedula	0	0	0	0
Argia tibialis	0	0	0	18
Arrenurus	0	0	0	0
Arrenurus problecornis	0	0	0	0
Astacidae	0	0	0	0
Atherix	0	0	0	0
Atractides	0	0	0	0
Atrichopogon	0	0	2	0
Aulodrilus pigueti	0	2	0	0
Aulodrilus pluriseta	0	0	0	0
Baetidae	0	0	0	0
Baetis	0	0	0	0
Baetis intercalaris	0	0	14	0
Baetisca rogersi	0	0	0	0
Beardius truncatus	0	0	0	0
Belostoma	0	0	0	0
Belostomatidae	0	0	0	0
Bivalvia	0	6	0	0
Bourletiella	0	0	0	0
Boyeria vinosa	0	0	0	0
Brachycentrus	0	0	0	0
Brachycentrus chelatus	0	0	0	0
Brachycentrus numerosus	0	0	0	0

As Calculated / STORET station ->	GLA630GS	273116508208152	GAD104US	UNI234LV
Sample date ->	1/23/2006	6/21/2006	11/14/2005	11/15/2005
	SampleID	SampleID	SampleID	SampleID
	53951/BenthID	52834/BenthID	49652/BenthID	53059/BenthID
Taxon Name / SampleID/BenID ->	35284(#counted)	35565(#counted)	35784(#counted)	36666(#counted)
Brachycercus maculatus	0	0	0	0
Caecidotea	0	0	0	0
Caecidotea racovitzai	1	0	0	0
Caenis	0	1	0	0
Caenis diminuta	31	0	1	0
Caenis hilaris	0	0	0	0
Callibaetis floridanus	0	0	0	0
Calopteryx	0	0	1	1
Calopteryx maculata	0	0	0	0
Cambaridae	0	0	0	0
Campeloma	0	0	0	0
Campeloma limum	0	0	0	0
Cassidinidea ovalis	0	0	0	0
Cecidomyiidae	0	0	0	0
Ceratopogonidae	0	0	0	0
Cernotina	0	1	0	0
Chaoborus	0	0	0	0
Chaoborus albatus	0	0	0	0
Chauliodes	0	0	0	0
Chelifera	0	0	0	0
Cheumatopsyche	1	0	15	2
Chimarra	0	0	0	0
Chironomus	0	0	0	0
Choroterpes basalis	0	0	0	0
Choroterpes hubbelli	0	0	0	0
Cladotanytarsus	0	0	0	0
Cladotanytarsus cf. daviesi	1	0	0	0
Cladotanytarsus sp. i epler	0	0	0	0
Clathrosperchon	0	0	0	0
Climacea areolaris	0	0	0	0
Clinotanypus	0	0	0	0
Coelotanypus	0	0	0	0
Coelotanypus scapularis	0	0	0	0
Coenagrionidae	0	0	0	0
Collembola	0	0	0	0
Conchapelopia	0	0	0	0
Corbicula fluminea	0	0	0	0
Corduliidae	0	0	0	0
Corydalus	0	0	0	0
Corydalus cornuta	0	0	0	0
Corydalus cornutus	0	1	0	0
Corynoneura	0	0	1	0
Corynoneura sp. b epler	0	0	0	0
Corynoneura sp. c epler	0	0	0	0
Corynoneura taris	0	0	0	0

As Calculated / STORET station ->	GLA630GS	273116508208152	GAD104US	UNI234LV
Sample date ->	1/23/2006	6/21/2006	11/14/2005	11/15/2005
	SampleID	SampleID	SampleID	SampleID
	53951/BenthID	52834/BenthID	49652/BenthID	53059/BenthID
Taxon Name / SampleID/BenID ->	35284(#counted)	35565(#counted)	35784(#counted)	36666(#counted)
Crangonyx	0	0	0	2
Cricotopus	0	0	0	0
Cricotopus bicinctus	0	0	0	0
Cricotopus bicinctus grp.	0	0	0	0
Cricotopus or orthocladius	0	0	0	0
Cryptochironomus	1	0	0	0
Cryptotendipes	0	0	0	0
Curculionidae	0	0	0	0
Cyrnellus fraternus	0	0	0	0
Demicryptochironomus	0	0	0	0
Dero digitata	0	0	0	0
Dero digitata complex	1	7	0	0
Dero lodeni	0	0	0	0
Dero pectinata	0	0	0	0
Dero trifida	0	0	0	0
Dero vaga	0	0	0	0
Dicrotendipes	4	0	0	0
Dicrotendipes modestus	0	0	0	0
Dicrotendipes neomodestus	0	1	0	0
Dicrotendipes simpsoni	0	0	0	0
Dicrotendipes sp. a epler	0	0	0	0
Dineutus	0	0	0	0
Dineutus discolor	0	0	0	0
Dineutus serrulatus	0	0	0	0
Diplectrona modesta	0	0	0	0
Dixa	0	0	0	0
Dixella	0	0	0	0
Djalmabatista pulcher	0	0	0	0
Dolichopodidae	0	1	0	0
Dromogomphus armatus	1	0	0	0
Dromogomphus spinosus	0	0	0	0
Dryopidae	0	0	0	0
Dubiraphia	0	0	0	0
Dubiraphia quadrinotata	0	0	0	0
Dubiraphia vittata	7	18	0	4
Dugesia	4	0	0	0
Dugesia tigrina	0	0	0	0
Eclipidrilus	0	0	0	0
Eclipidrilus palustris	0	1	0	2
Ectopria	0	0	0	0
Elimia	0	0	0	0
Elimia floridensis	0	0	0	0
Empididae	0	0	0	0
Enallagma	0	0	0	0

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	53951/BenthID	52834/BenthID	49652/BenthID	53059/BenthID
Taxon Name / SampleID/BenID ->	35284(#counted)	35565(#counted)	35784(#counted)	36666(#counted)
Enallagma cardenium	0	0	0	0
Enchytraeidae	0	1	0	0
Endotribelos hesperium	0	0	0	0
Enochrus	0	0	0	0
Ephemerellidae	0	1	0	0
Ephydridae	0	0	0	0
Epitheca	0	0	0	0
Epitheca princeps regina	0	0	0	0
Eurylophella doris	0	0	0	0
Eurylophella temporalis	0	0	0	0
Ferrissia	0	0	0	0
Gammaridae	0	0	0	0
Gammarus	0	0	0	0
Gammarus tigrinus	0	0	0	0
Gastropoda	0	1	0	0
Geayia	0	0	0	0
Gerridae	0	0	0	0
Gloiobdella elongata	0	0	0	0
Goeldichironomus fluctuans	0	0	0	0
Gomphidae	0	1	0	0
Gomphus	0	0	0	0
Gomphus minutus	0	0	0	0
Gonielmis	0	0	0	0
Gonielmis dietrichi	0	0	0	0
Grandidierella bonnieroides	0	0	0	0
Gyretes iricolor	0	0	0	0
Haber speciosus	0	0	0	0
Hagenius brevistylus	0	0	0	0
Hebetancylus excentricus	0	0	0	0
Helobdella stagnalis	1	0	0	0
Helobdella triserialis	0	0	0	0
Helopelopia	0	0	0	0
Hemerodromia	0	0	0	0
Hemiptera	0	0	0	0
Heptageniidae	0	0	0	0
Hetaerina	0	0	0	0
Hetaerina titia	0	0	0	0
Heteroplectron americanum	0	0	0	0
Hexagenia	0	0	0	0
Hexagenia bilineata	0	0	0	0
Hexagenia limbata	0	0	0	0
Hexagenia munda orlando	0	0	0	0
Hexatoma	0	0	0	0
Hyalella azteca	5	0	0	0
Hydra	0	0	0	0
Hydrachna	0	0	0	0
Hydraena marginicollis	0	0	0	0
Hydraenidae	0	0	0	0

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	SampleID	SampleID	SampleID	SampleID
	53951/BenthID	52834/BenthID	49652/BenthID	53059/BenthID
Taxon Name / SampleID/BenID ->	35284(#counted)	35565(#counted)	35784(#counted)	36666(#counted)
Hydrobiidae	0	0	0	0
Hydrodroma	0	0	0	0
Hydrophilidae	0	0	0	0
Hydroporus	0	0	0	0
Hydropsyche	0	0	0	4
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	0	0	0
Hydroptila	0	0	0	0
Hydroptilidae	0	0	0	0
Hygrobates	0	0	0	0
Hygrotus	0	0	0	0
Ischnura	0	1	0	0
Ischnura hastata	0	0	0	0
Isonychia	0	0	0	0
Isoperla	0	0	0	0
Isopoda	0	0	0	0
Isotomurus	0	0	0	0
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	0	0	0
Krendowskia	0	0	0	0
Labiobaetis	0	0	0	0
Labrundinia	0	0	0	0
Labrundinia becki	0	0	0	0
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	0	0	0	0
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	0
Lauterborniella agrayloides	0	0	0	0
Lebertia	0	0	0	0
Lepidoptera	0	0	0	0
Leptoceridae	1	0	0	0
Leptophlebia	0	0	0	0
Leptophlebiidae	0	0	0	4
Leuctra	0	0	0	0
Libellulidae	0	0	0	0
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	0	0	0	0
Limnophila	0	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	0	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	0	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	0	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0	0	0	0

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	53951/BenthID	52834/BenthID	49652/BenthID	53059/BenthID
Taxon Name / SampleID/BenID ->	35284(#counted)	35565(#counted)	35784(#counted)	36666(#counted)
Lype diversa	0	0	0	0
Maccaffertium	0	0	0	0
Maccaffertium smithae	0	0	13	0
Macromia	0	0	0	0
Macromia taeniolata	0	0	0	0
Macromiidae	0	0	0	0
Macronychus glabratus	0	0	3	0
Macrostemum carolina	0	0	0	0
Mayatrichia	0	0	0	0
Mayatrichia ayama	0	0	0	0
Meropelopia	0	0	0	0
Mesosmittia	0	0	0	0
Metrobates	0	0	0	0
Micrasema	0	0	0	0
Micrasema rusticum	0	0	0	0
Micrasema wataga	0	0	0	0
Microcylloepus	0	0	0	0
Microcylloepus pusillus	26	13	1	7
Micromenetus	0	0	0	0
Micromenetus dilatatus	0	0	0	0
Microtendipes pedellus	0	0	0	0
Microtendipes pedellus grp.	0	0	0	0
Microtendipes rydalensis	0	0	0	0
Microtendipes rydalensis grp.	0	0	0	0
Mideopsis	0	2	0	0
Molanna	0	0	0	0
Mooreobdella	0	0	0	0
Mooreobdella tetragon	0	0	0	0
Muscidae	0	0	0	0
Naididae	0	0	0	0
Nais behningi	0	0	0	0
Nais communis	0	0	0	0
Nais communis complex	0	0	0	0
Nais pardalis	0	0	0	0
Nais simplex	0	0	0	0
Nais variabilis	0	0	2	0
Nanocladius	0	0	0	0
Nectopsyche	0	0	0	0
Nectopsyche candida	0	0	0	0
Nectopsyche exquisita	0	0	0	0
Nectopsyche pavida	0	0	0	0
Nemertea	0	0	0	0
Neoperla	0	0	0	0
Neoperla clymene	0	0	0	0
Neoporus	0	0	0	0
Neotrichia	0	0	0	0
Neumania	0	0	0	0

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Taxon Name / SampleID/BenID ->	35284(#counted)	35565(#counted)	35784(#counted)	36666(#counted)
Neumania distincta	0	0	0	0
Neureclipsis	0	0	0	0
Neureclipsis crepuscularis	0	0	0	0
Neurocordulia	0	0	0	3
Neurocordulia alabamensis	0	0	0	0
Neurocordulia virginiensis	0	0	0	0
Nigronia	0	0	0	0
Nigronia fasciatus	0	0	0	0
Nigronia serricornis	0	0	0	0
Nilotanypus	0	0	0	0
Nilothauma	0	0	0	0
Notogillia wetherbyi	0	0	0	0
Nyctiophylax	0	0	0	0
Odonata	0	0	0	0
Odontomyia	0	0	0	0
Oecetis	0	0	0	8
Oecetis cinerascens	0	0	0	0
Oecetis georgia	0	0	0	0
Oecetis inconspicua cmplx.	0	0	0	0
Oecetis morsei or sphyra	0	0	0	0
Oecetis parva	0	0	0	0
Oecetis persimilis	0	0	0	0
Oecetis sp. a floyd	0	0	0	0
Oecetis sp. e floyd	0	0	0	0
Ora/scirtes	0	0	0	0
Oribatei	0	0	0	0
Orthocladiinae	0	0	0	0
Orthocladiinae gen. c epler	0	0	0	0
Orthocladiinae gen. f epler	0	0	0	0
Orthocladius annectens	0	0	0	0
Orthotrichia	0	0	0	0
Oxyethira	0	3	0	0
Pachydiplax longipennis	0	0	0	0
Pagastiella	0	0	0	0
Palaemonetes	0	0	0	0
Palaemonetes kadiakensis	0	0	0	0
Palaemonetes paludosus	0	0	0	0
Palpomyia/bezzia grp.	0	0	0	0
Paracladopelma	0	0	0	0
Paracladopelma loganae	0	0	0	0
Paracladopelma undine	0	0	0	0
Paragnetina	0	0	0	0
Paragnetina fumosa	0	0	0	0

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	53951/BenthID	52834/BenthID	49652/BenthID	53059/BenthID
Taxon Name / SampleID/BenID ->	35284(#counted)	35565(#counted)	35784(#counted)	36666(#counted)
Parakiefferiella	0	0	0	0
Paralauterborniella nigrohalterale	0	0	0	0
Paraleptophlebia volitans	0	0	0	0
Parametriocnemus	0	0	0	0
Parametriocnemus sp. f epler	0	0	0	0
Paranyctiophylax	0	0	0	0
Paraplea	0	0	0	0
Paraponyx	0	0	0	0
Paratanytarsus sp. a epler	0	0	0	0
Paratanytarsus sp. c epler	0	0	0	0
Paratendipes subaequalis	0	0	0	0
Pelecypoda	0	0	0	0
Pelonomus obscurus	0	0	0	0
Peltodytes	0	0	0	0
Pentaneura inconspicua	0	1	0	0
Perlesta	0	0	0	0
Perlesta placida	0	0	0	0
Perlesta placida complex	0	0	0	0
Perlinella	0	0	0	0
Petrophila	0	0	0	0
Phaenopsectra obediens grp.	0	0	0	0
Phaenopsectra punctipes grp.	0	0	0	0
Phylocentropus	0	0	0	0
Physella	0	0	0	0
Physella cubensis	0	0	0	0
Piona	0	0	0	0
Pisidiidae	0	0	0	0
Pisidium	0	0	0	0
Planariidae	0	0	0	0
Planorbella duryi	0	0	0	0
Planorbella scalaris	0	0	0	0
Planorbidae	0	0	0	0
Platyhelminthes	0	4	0	0
Plecoptera	0	0	1	0
Plumulariidae	0	0	0	0
Polycentropodidae	0	0	0	0
Polycentropus	0	0	0	0
Polypedilum	0	0	0	0
Polypedilum aviceps	0	0	0	0
Polypedilum convictum grp.	0	0	0	0
Polypedilum fallax	0	0	0	0
Polypedilum flavum	0	2	16	0

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	53951/BenthID	52834/BenthID	49652/BenthID	53059/BenthID
Taxon Name / SampleID/BenID ->	35284(#counted)	35565(#counted)	35784(#counted)	36666(#counted)
Polypedilum halterale grp.	0	0	0	0
Polypedilum illinoense	0	0	0	0
Polypedilum illinoense grp.	0	0	0	1
Polypedilum scalaenum	0	0	0	0
Polypedilum scalaenum grp.	0	0	0	0
Polypedilum sp. a epler	0	0	0	0
Polypedilum tritum	10	0	0	0
Pomacea paludosa	0	0	0	0
Pristina aequiseta	0	0	0	0
Pristina synclites	0	0	0	0
Pristinella jenkinae	0	0	0	0
Probezzia	0	0	0	0
Procambarus	0	0	0	0
Procladius	0	0	0	0
Procladius (holotanypus)	0	1	0	0
Procloeon viridocularis	0	0	0	0
Progomphus	0	0	0	0
Progomphus obscurus	0	0	0	0
Promoresia tardella	0	0	0	0
Prostoma rubrum	0	0	0	0
Psammoryctides convolutus	0	0	0	0
Pseudochironomus	0	0	0	0
Pseudocloeon	0	0	0	0
Psychodidae	0	0	0	0
Pycnopsyche	0	0	0	0
Pyralidae	0	0	0	0
Pyrgophorus platyrachis	0	0	0	0
Ranatra kirkaldyi	0	0	0	0
Rhagovelia	0	0	0	0
Rheocricotopus	0	0	0	0
Rheocricotopus robacki	0	0	0	0
Rheocricotopus tuberculatus	0	0	0	0
Rheotanytarsus	0	0	0	0
Rheotanytarsus distinctissimus grp.	0	0	0	0
Rheotanytarsus exiguus	0	0	0	0
Rheotanytarsus exiguus grp.	0	1	9	10
Rheotanytarsus pellucidus	0	0	0	0
Scirtes	0	0	0	0
Scirtidae	0	0	0	0
Serratella deficiens	0	0	0	0
Sialis	0	0	0	0
Silvius	0	0	0	0

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	SampleID	SampleID	SampleID	SampleID
	53951/BenthID	52834/BenthID	49652/BenthID	53059/BenthID
Taxon Name / SampleID/BenID ->	35284(#counted)	35565(#counted)	35784(#counted)	36666(#counted)
Simuliidae	0	0	0	0
Simulium	0	0	23	0
Slavina appendiculata	2	3	0	2
Somatogyrus walkerianus	0	0	0	0
Sperchon	0	0	0	0
Sperchonopsis	0	0	0	0
Sperchopsis	0	0	0	0
Sphaeriidae	0	0	0	0
Sphaeriidae(mollusca)	0	0	0	0
Sphaeroma	0	0	0	0
Sphaeromias	0	0	0	0
Spirosperma	0	0	0	0
Spirosperma ferox	0	0	0	0
Stelechomyia perpulchra	0	0	0	0
Stempellina	0	0	0	0
Stempellina sp. a epler	0	0	0	0
Stempellinella	0	0	0	0
Stenacron	0	0	0	0
Stenacron floridense	0	0	0	0
Stenacron interpunctatum	0	0	0	0
Stenelmis	0	4	1	10
Stenelmis decorata	0	0	0	0
Stenelmis hungerfordi	0	0	0	0
Stenochironomus	5	1	0	0
Stenonema	0	0	0	0
Stenonema exiguum	0	0	0	0
Stenonema smithae	0	0	0	0
Stratiomyidae	0	0	0	0
Stylaria lacustris	0	0	0	0
Synorthocladius	0	0	0	0
Tabanus	0	0	0	0
Taeniopteryx lita	0	0	0	0
Tanytarsus	4	0	1	0
Tanytarsus sp. a epler	0	3	0	0
Tanytarsus sp. c epler	0	3	0	0
Tanytarsus sp. d epler	0	0	0	0
Tanytarsus sp. e epler	0	0	0	0
Tanytarsus sp. g epler	0	0	0	0
Tanytarsus sp. l epler	0	0	0	2
Tanytarsus sp. m epler	0	13	0	0
Tanytarsus sp. o epler	0	0	0	0
Tanytarsus sp. r epler	0	0	0	0
Tanytarsus sp. s epler	0	5	0	0
Tanytarsus sp. t epler	0	0	0	0
Tanytarsus sp. u epler	0	0	0	0
Taphromysis bowmani	0	0	0	0

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	53951/BenthID	52834/BenthID	49652/BenthID	53059/BenthID
Taxon Name / SampleID/BenID ->	35284(#counted)	35565(#counted)	35784(#counted)	36666(#counted)
Thienemanniella	0	0	0	0
Thienemanniella lobapodema	2	0	0	0
Thienemanniella similis	0	0	0	0
Thienemanniella sp. a epler	0	0	0	0
Thienemannimyia grp.	0	0	0	4
Tipula	0	0	0	0
Tipulidae	0	0	0	0
Torrenticola	0	0	0	0
Triaenodes	0	2	0	0
Triaenodes ignitus	0	0	0	0
Triaenodes perna	0	0	0	0
Tribelos	0	0	0	0
Tribelos atrum	0	0	0	0
Tribelos fuscicornis	0	0	0	0
Tribelos jucundum	0	0	0	1
Tricorythodes albilineatus	0	0	0	0
Tubificidae	1	0	0	0
Turbellaria	0	0	0	0
Tvetenia	0	0	0	0
Tvetenia discoloripes grp.	0	0	0	0
Unionicola	0	0	0	0
Unniella multivirga	0	0	0	0
Veliidae	0	0	0	0
Xenochironomus xenolabis	0	0	0	0
Xestochironomus	0	0	0	0
Xylotopus par	0	0	0	0
Zygoptera	0	0	0	0

As Calculated / STORET station ->	LIB104LV			
Sample date ->	11/21/2005			
	SampleID 49677/BenthID			
Taxon Name / SampleID/BenID ->	36688(#counted)	Phylum	Class	Order
Ablabesmyia (karelia) grp.	0	Arthropoda	Insecta	Diptera
Ablabesmyia hauberi	0	Arthropoda	Insecta	Diptera
Ablabesmyia mallochi	0	Arthropoda	Insecta	Diptera
Ablabesmyia rhamphe grp.	0	Arthropoda	Insecta	Diptera
Acentrella parvula	0	Arthropoda	Insecta	Ephemeroptera
Acerpenna pygmaea	0	Arthropoda	Insecta	Ephemeroptera
Acroneuria	0	Arthropoda	Insecta	Plecoptera
Acroneuria abnormis	0	Arthropoda	Insecta	Plecoptera
Acroneuria arenosa	0	Arthropoda	Insecta	Plecoptera
Acroneuria arenosa/evoluta	0	Arthropoda	Insecta	Plecoptera
Acroneuria lycorias	6	Arthropoda	Insecta	Plecoptera
Agarodes libalis	0	Arthropoda	Insecta	Trichoptera
Alluaudomyia	0	Arthropoda	Insecta	Diptera
Amnicola	0	Mollusca	Gastropoda	Mesogastropoda
Amnicola dalli	0	Mollusca	Gastropoda	Mesogastropoda
Amnicola dalli johnsoni	0	Mollusca	Gastropoda	Mesogastropoda
Amphipoda	0	Arthropoda	Crustacea	Amphipoda
Ancylidae	0	Mollusca	Gastropoda	Basommatophora
Ancyronyx	0	Arthropoda	Insecta	Coleoptera
Ancyronyx variegatus	3	Arthropoda	Insecta	Coleoptera
Anisocentropus pyraloides	0	Arthropoda	Insecta	Trichoptera
Anopheles	0	Arthropoda	Insecta	Diptera
Apsectrotanypus johnsoni	0	Arthropoda	Insecta	Diptera
Argia	1	Arthropoda	Insecta	Odonata
Argia fumipennis	0	Arthropoda	Insecta	Odonata
Argia moesta	0	Arthropoda	Insecta	Odonata
Argia sedula	0	Arthropoda	Insecta	Odonata
Argia tibialis	0	Arthropoda	Insecta	Odonata
Arrenurus	0	Arthropoda	Arachnida	Acariformes
Arrenurus problecornis	0	Arthropoda	Arachnida	Acariformes
Astacidae	0	Arthropoda	Crustacea	Decapoda
Atherix	0	Arthropoda	Insecta	Diptera
Atractides	0	Arthropoda	Arachnida	Acariformes
Atrichopogon	0	Arthropoda	Insecta	Diptera
Aulodrilus pigueti	0	Annelida	Oligochaeta	Haplotaxida
Aulodrilus pluriseta	0	Annelida	Oligochaeta	Haplotaxida
Baetidae	0	Arthropoda	Insecta	Ephemeroptera
Baetis	0	Arthropoda	Insecta	Ephemeroptera
Baetis intercalaris	0	Arthropoda	Insecta	Ephemeroptera
Baetisca rogersi	0	Arthropoda	Insecta	Ephemeroptera
Beardius truncatus	0	Arthropoda	Insecta	Diptera
Belostoma	0	Arthropoda	Insecta	Heteroptera
Belostomatidae	0	Arthropoda	Insecta	Heteroptera
Bivalvia	0	Mollusca	Bivalvia	Bivalvia
Bourletiella	0	Arthropoda	Insecta	Collembola
Boyeria vinosa	0	Arthropoda	Insecta	Odonata
Brachycentrus	0	Arthropoda	Insecta	Trichoptera
Brachycentrus chelatus	0	Arthropoda	Insecta	Trichoptera
Brachycentrus numerosus	0	Arthropoda	Insecta	Trichoptera

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Taxon Name / SampleID/BenID ->	36688(#counted)	Phylum	Class	Order
Brachycercus maculatus	0	Arthropoda	Insecta	Ephemeroptera
Caecidotea	0	Arthropoda	Crustacea	Isopoda
Caecidotea racovitzai	0	Arthropoda	Crustacea	Isopoda
Caenis	0	Arthropoda	Insecta	Ephemeroptera
Caenis diminuta	0	Arthropoda	Insecta	Ephemeroptera
Caenis hilaris	0	Arthropoda	Insecta	Ephemeroptera
Callibaetis floridanus	0	Arthropoda	Insecta	Ephemeroptera
Calopteryx	0	Arthropoda	Insecta	Odonata
Calopteryx maculata	1	Arthropoda	Insecta	Odonata
Cambaridae	0	Arthropoda	Crustacea	Decapoda
Campeloma	0	Mollusca	Gastropoda	Mesogastropoda
Campeloma limum	0	Mollusca	Gastropoda	Mesogastropoda
Cassidinidea ovalis	0	Arthropoda	Crustacea	Isopoda
Cecidomyiidae	0	Arthropoda	Insecta	Diptera
Ceratopogonidae	0	Arthropoda	Insecta	Diptera
Cernotina	0	Arthropoda	Insecta	Trichoptera
Chaoborus	0	Arthropoda	Insecta	Diptera
Chaoborus albatus	0	Arthropoda	Insecta	Diptera
Chauliodes	0	Arthropoda	Insecta	Megaloptera
Chelifera	0	Arthropoda	Insecta	Diptera
Cheumatopsyche	1	Arthropoda	Insecta	Trichoptera
Chimarra	2	Arthropoda	Insecta	Trichoptera
Chironomus	0	Arthropoda	Insecta	Diptera
Choroterpes basalis	0	Arthropoda	Insecta	Ephemeroptera
Choroterpes hubbelli	0	Arthropoda	Insecta	Ephemeroptera
Cladotanytarsus	0	Arthropoda	Insecta	Diptera
Cladotanytarsus cf. daviesi	0	Arthropoda	Insecta	Diptera
Cladotanytarsus sp. i epler	0	Arthropoda	Insecta	Diptera
Clathrosperchon	0	Arthropoda	Arachnida	Acariformes
Climacea areolaris	0	Arthropoda	Insecta	Megaloptera
Clinotanypus	0	Arthropoda	Insecta	Diptera
Coelotanypus	0	Arthropoda	Insecta	Diptera
Coelotanypus scapularis	0	Arthropoda	Insecta	Diptera
Coenagrionidae	0	Arthropoda	Insecta	Odonata
Collembola	0	Arthropoda	Insecta	Collembola
Conchapelopia	0	Arthropoda	Insecta	Diptera
Corbicula fluminea	0	Mollusca	Bivalvia	Veneroida
Corduliidae	0	Arthropoda	Insecta	Odonata
Corydalus	0	Arthropoda	Insecta	Megaloptera
Corydalus cornuta	0	Arthropoda	Insecta	Megaloptera
Corydalus cornutus	0	Arthropoda	Insecta	Megaloptera
Corynoneura	0	Arthropoda	Insecta	Diptera
Corynoneura sp. b epler	0	Arthropoda	Insecta	Diptera
Corynoneura sp. c epler	0	Arthropoda	Insecta	Diptera
Corynoneura taris	0	Arthropoda	Insecta	Diptera

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Taxon Name / SampleID/BenID ->	36688(#counted)	Phylum	Class	Order
Crangonyx	0	Arthropoda	Crustacea	Amphipoda
Cricotopus	0	Arthropoda	Insecta	Diptera
Cricotopus bicinctus	0	Arthropoda	Insecta	Diptera
Cricotopus bicinctus grp.	0	Arthropoda	Insecta	Diptera
Cricotopus or orthocladius	0	Arthropoda	Insecta	Diptera
Cryptochironomus	0	Arthropoda	Insecta	Diptera
Cryptotendipes	0	Arthropoda	Insecta	Diptera
Curculionidae	0	Arthropoda	Insecta	Coleoptera
Cyrnellus fraternus	0	Arthropoda	Insecta	Trichoptera
Demicryptochironomus	0	Arthropoda	Insecta	Diptera
Dero digitata	0	Annelida	Oligochaeta	Haplotaxida
Dero digitata complex	0	Annelida	Oligochaeta	Haplotaxida
Dero lodeni	0	Annelida	Oligochaeta	Haplotaxida
Dero pectinata	0	Annelida	Oligochaeta	Haplotaxida
Dero trifida	0	Annelida	Oligochaeta	Haplotaxida
Dero vaga	0	Annelida	Oligochaeta	Haplotaxida
Dicrotendipes	0	Arthropoda	Insecta	Diptera
Dicrotendipes modestus	0	Arthropoda	Insecta	Diptera
Dicrotendipes neomodestus	0	Arthropoda	Insecta	Diptera
Dicrotendipes simpsoni	0	Arthropoda	Insecta	Diptera
Dicrotendipes sp. a epler	0	Arthropoda	Insecta	Diptera
Dineutus	0	Arthropoda	Insecta	Coleoptera
Dineutus discolor	1	Arthropoda	Insecta	Coleoptera
Dineutus serrulatus	0	Arthropoda	Insecta	Coleoptera
Diplectrona modesta	0	Arthropoda	Insecta	Trichoptera
Dixa	0	Arthropoda	Insecta	Diptera
Dixella	0	Arthropoda	Insecta	Diptera
Djalmabatista pulcher	0	Arthropoda	Insecta	Diptera
Dolichopodidae	0	Arthropoda	Insecta	Diptera
Dromogomphus armatus	0	Arthropoda	Insecta	Odonata
Dromogomphus spinosus	0	Arthropoda	Insecta	Odonata
Dryopidae	0	Arthropoda	Insecta	Coleoptera
Dubiraphia	0	Arthropoda	Insecta	Coleoptera
Dubiraphia quadrinotata	0	Arthropoda	Insecta	Coleoptera
Dubiraphia vittata	0	Arthropoda	Insecta	Coleoptera
Dugesia	0	Platyhelminthes	Turbellaria	Tricladida
Dugesia tigrina	0	Platyhelminthes	Turbellaria	Tricladida
Eclipidrilus	0	Annelida	Oligochaeta	Lumbriculida
Eclipidrilus palustris	0	Annelida	Oligochaeta	Lumbriculida
Ectopria	0	Arthropoda	Insecta	Coleoptera
Elimia	0	Mollusca	Gastropoda	Mesogastropoda
Elimia floridensis	0	Mollusca	Gastropoda	Mesogastropoda
Empididae	0	Arthropoda	Insecta	Diptera
Enallagma	0	Arthropoda	Insecta	Odonata

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Taxon Name / SampleID/BenID ->	36688(#counted)	Phylum	Class	Order
Enallagma cardenium	0	Arthropoda	Insecta	Odonata
Enchytraeidae	1	Annelida	Oligochaeta	Haplotaxida
Endotribelos hesperium	0	Arthropoda	Insecta	Diptera
Enochrus	0	Arthropoda	Insecta	Coleoptera
Ephemerellidae	0	Arthropoda	Insecta	Ephemeroptera
Ephydridae	0	Arthropoda	Insecta	Diptera
Epitheca	0	Arthropoda	Insecta	Odonata
Epitheca princeps regina	0	Arthropoda	Insecta	Odonata
Eurylophella doris	7	Arthropoda	Insecta	Ephemeroptera
Eurylophella temporalis	0	Arthropoda	Insecta	Ephemeroptera
Ferrissia	0	Mollusca	Gastropoda	Basommatophora
Gammaridae	0	Arthropoda	Crustacea	Amphipoda
Gammarus	0	Arthropoda	Crustacea	Amphipoda
Gammarus tigrinus	0	Arthropoda	Crustacea	Amphipoda
Gastropoda	0	Mollusca	Gastropoda	Gastropoda
Geayia	0	Arthropoda	Arachnida	Acariformes
Gerridae	0	Arthropoda	Insecta	Heteroptera
Gloiobdella elongata	0	Annelida	Hirudinea	Rhynchobdellida
Goeldichironomus fluctuans	0	Arthropoda	Insecta	Diptera
Gomphidae	0	Arthropoda	Insecta	Odonata
Gomphus	0	Arthropoda	Insecta	Odonata
Gomphus minutus	0	Arthropoda	Insecta	Odonata
Gonielmis	0	Arthropoda	Insecta	Coleoptera
Gonielmis dietrichi	2	Arthropoda	Insecta	Coleoptera
Grandidierella bonnieroides	0	Arthropoda	Crustacea	Amphipoda
Gyretes iricolor	0	Arthropoda	Insecta	Coleoptera
Haber speciosus	0	Annelida	Oligochaeta	Haplotaxida
Hagenius brevistylus	0	Arthropoda	Insecta	Odonata
Hebetancylus excentricus	0	Mollusca	Gastropoda	Basommatophora
Helobdella stagnalis	0	Annelida	Hirudinea	Rhynchobdellida
Helobdella triserialis	0	Annelida	Hirudinea	Rhynchobdellida
Helopelopia	0	Arthropoda	Insecta	Diptera
Hemerodromia	3	Arthropoda	Insecta	Diptera
Hemiptera	0	Arthropoda	Insecta	Hemiptera
Heptageniidae	0	Arthropoda	Insecta	Ephemeroptera
Hetaerina	0	Arthropoda	Insecta	Odonata
Hetaerina titia	0	Arthropoda	Insecta	Odonata
Heteroplectron americanum	0	Arthropoda	Insecta	Trichoptera
Hexagenia	0	Arthropoda	Insecta	Ephemeroptera
Hexagenia bilineata	0	Arthropoda	Insecta	Ephemeroptera
Hexagenia limbata	0	Arthropoda	Insecta	Ephemeroptera
Hexagenia munda orlando	0	Arthropoda	Insecta	Ephemeroptera
Hexatoma	0	Arthropoda	Insecta	Diptera
Hyalella azteca	0	Arthropoda	Crustacea	Amphipoda
Hydra	0	Cnidaria	Hydrozoa	Hydroida
Hydrachna	0	Arthropoda	Arachnida	Acariformes
Hydraena marginicollis	0	Arthropoda	Insecta	Coleoptera
Hydraenidae	0	Arthropoda	Insecta	Coleoptera

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Crangonyx	0	Arthropoda	Crustacea	Amphipoda
Cricotopus	0	Arthropoda	Insecta	Diptera
Cricotopus bicinctus	0	Arthropoda	Insecta	Diptera
Cricotopus bicinctus grp.	0	Arthropoda	Insecta	Diptera
Cricotopus or orthocladius	0	Arthropoda	Insecta	Diptera
Cryptochironomus	0	Arthropoda	Insecta	Diptera
Cryptotendipes	0	Arthropoda	Insecta	Diptera
Curculionidae	0	Arthropoda	Insecta	Coleoptera
Cyrnellus fraternus	0	Arthropoda	Insecta	Trichoptera
Demicryptochironomus	0	Arthropoda	Insecta	Diptera
Dero digitata	0	Annelida	Oligochaeta	Haplotaxida
Dero digitata complex	0	Annelida	Oligochaeta	Haplotaxida
Dero lodeni	0	Annelida	Oligochaeta	Haplotaxida
Dero pectinata	0	Annelida	Oligochaeta	Haplotaxida
Dero trifida	0	Annelida	Oligochaeta	Haplotaxida
Dero vaga	0	Annelida	Oligochaeta	Haplotaxida
Dicrotendipes	0	Arthropoda	Insecta	Diptera
Dicrotendipes modestus	0	Arthropoda	Insecta	Diptera
Dicrotendipes neomodestus	0	Arthropoda	Insecta	Diptera
Dicrotendipes simpsoni	0	Arthropoda	Insecta	Diptera
Dicrotendipes sp. a epler	0	Arthropoda	Insecta	Diptera
Dineutus	0	Arthropoda	Insecta	Coleoptera
Dineutus discolor	1	Arthropoda	Insecta	Coleoptera
Dineutus serrulatus	0	Arthropoda	Insecta	Coleoptera
Diplectrona modesta	0	Arthropoda	Insecta	Trichoptera
Dixa	0	Arthropoda	Insecta	Diptera
Dixella	0	Arthropoda	Insecta	Diptera
Djalmabatista pulcher	0	Arthropoda	Insecta	Diptera
Dolichopodidae	0	Arthropoda	Insecta	Diptera
Dromogomphus armatus	0	Arthropoda	Insecta	Odonata
Dromogomphus spinosus	0	Arthropoda	Insecta	Odonata
Dryopidae	0	Arthropoda	Insecta	Coleoptera
Dubiraphia	0	Arthropoda	Insecta	Coleoptera
Dubiraphia quadrinotata	0	Arthropoda	Insecta	Coleoptera
Dubiraphia vittata	0	Arthropoda	Insecta	Coleoptera
Dugesia	0	Platyhelminthes	Turbellaria	Tricladida
Dugesia tigrina	0	Platyhelminthes	Turbellaria	Tricladida
Eclipidrilus	0	Annelida	Oligochaeta	Lumbriculida
Eclipidrilus palustris	0	Annelida	Oligochaeta	Lumbriculida
Ectopria	0	Arthropoda	Insecta	Coleoptera
Elimia	0	Mollusca	Gastropoda	Mesogastropoda
Elimia floridensis	0	Mollusca	Gastropoda	Mesogastropoda
Empididae	0	Arthropoda	Insecta	Diptera
Enallagma	0	Arthropoda	Insecta	Odonata

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Lype diversa	1	Arthropoda	Insecta	Trichoptera
Maccaffertium	0	Arthropoda	Insecta	Ephemeroptera
Maccaffertium smithae	9	Arthropoda	Insecta	Ephemeroptera
Macromia	0	Arthropoda	Insecta	Odonata
Macromia taeniolata	0	Arthropoda	Insecta	Odonata
Macromiidae	0	Arthropoda	Insecta	Odonata
Macronychus glabratus	0	Arthropoda	Insecta	Coleoptera
Macrostemum carolina	0	Arthropoda	Insecta	Trichoptera
Mayatrichia	0	Arthropoda	Insecta	Trichoptera
Mayatrichia ayama	0	Arthropoda	Insecta	Trichoptera
Meropelopia	0	Arthropoda	Insecta	Diptera
Mesosmittia	0	Arthropoda	Insecta	Diptera
Metrobates	0	Arthropoda	Insecta	Heteroptera
Micrasema	0	Arthropoda	Insecta	Trichoptera
Micrasema rusticum	0	Arthropoda	Insecta	Trichoptera
Micrasema wataga	0	Arthropoda	Insecta	Trichoptera
Microcylloepus	0	Arthropoda	Insecta	Coleoptera
Microcylloepus pusillus	2	Arthropoda	Insecta	Coleoptera
Micromenetus	0	Mollusca	Gastropoda	Basommatophora
Micromenetus dilatatus	0	Mollusca	Gastropoda	Basommatophora
Microtendipes pedellus	0	Arthropoda	Insecta	Diptera
Microtendipes pedellus grp.	0	Arthropoda	Insecta	Diptera
Microtendipes rydalensis	0	Arthropoda	Insecta	Diptera
Microtendipes rydalensis grp.	0	Arthropoda	Insecta	Diptera
Mideopsis	0	Arthropoda	Arachnida	Acariformes
Molanna	0	Arthropoda	Insecta	Trichoptera
Mooreobdella	0	Annelida	Hirudinea	Arhynchobdellida
Mooreobdella tetragon	0	Annelida	Hirudinea	Arhynchobdellida
Muscidae	0	Arthropoda	Insecta	Diptera
Naididae	0	Annelida	Oligochaeta	Haplotaxida
Nais behningi	0	Annelida	Oligochaeta	Haplotaxida
Nais communis	0	Annelida	Oligochaeta	Haplotaxida
Nais communis complex	0	Annelida	Oligochaeta	Haplotaxida
Nais pardalis	0	Annelida	Oligochaeta	Haplotaxida
Nais simplex	0	Annelida	Oligochaeta	Haplotaxida
Nais variabilis	0	Annelida	Oligochaeta	Haplotaxida
Nanocladius	0	Arthropoda	Insecta	Diptera
Nectopsyche	0	Arthropoda	Insecta	Trichoptera
Nectopsyche candida	0	Arthropoda	Insecta	Trichoptera
Nectopsyche exquisita	0	Arthropoda	Insecta	Trichoptera
Nectopsyche pavida	0	Arthropoda	Insecta	Trichoptera
Nemertea	0	Nemertea	Nemertea	Nemertea
Neoperla	0	Arthropoda	Insecta	Plecoptera
Neoperla clymene	0	Arthropoda	Insecta	Plecoptera
Neoporus	0	Arthropoda	Insecta	Coleoptera
Neotrichia	0	Arthropoda	Insecta	Trichoptera
Neumania	0	Arthropoda	Arachnida	Acariformes

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Neumania distincta	0	Arthropoda	Arachnida	Acariformes
Neureclipsis	0	Arthropoda	Insecta	Trichoptera
Neureclipsis crepuscularis	0	Arthropoda	Insecta	Trichoptera
Neurocordulia	0	Arthropoda	Insecta	Odonata
Neurocordulia alabamensis	0	Arthropoda	Insecta	Odonata
Neurocordulia virginiensis	0	Arthropoda	Insecta	Odonata
Nigronia	0	Arthropoda	Insecta	Megaloptera
Nigronia fasciatus	0	Arthropoda	Insecta	Megaloptera
Nigronia serricornis	0	Arthropoda	Insecta	Megaloptera
Nilotanypus	0	Arthropoda	Insecta	Diptera
Nilothauma	0	Arthropoda	Insecta	Diptera
Notogillia wetherbyi	0	Mollusca	Gastropoda	Mesogastropoda
Nyctiophylax	0	Arthropoda	Insecta	Trichoptera
Odonata	0	Arthropoda	Insecta	Odonata
Odontomyia	0	Arthropoda	Insecta	Diptera
Oecetis	4	Arthropoda	Insecta	Trichoptera
Oecetis cinerascens	0	Arthropoda	Insecta	Trichoptera
Oecetis georgia	0	Arthropoda	Insecta	Trichoptera
Oecetis inconspicua cmplx.	0	Arthropoda	Insecta	Trichoptera
Oecetis morsei or sphyra	0	Arthropoda	Insecta	Trichoptera
Oecetis parva	0	Arthropoda	Insecta	Trichoptera
Oecetis persimilis	0	Arthropoda	Insecta	Trichoptera
Oecetis sp. a floyd	0	Arthropoda	Insecta	Trichoptera
Oecetis sp. e floyd	0	Arthropoda	Insecta	Trichoptera
Ora/scirtes	1	Arthropoda	Insecta	Coleoptera
Oribatei	0	Arthropoda	Arachnida	Oribatei
Orthocladiinae	0	Arthropoda	Insecta	Diptera
Orthocladiinae gen. c epler	0	Arthropoda	Insecta	Diptera
Orthocladiinae gen. f epler	0	Arthropoda	Insecta	Diptera
Orthocladius annectens	0	Arthropoda	Insecta	Diptera
Orthotrichia	0	Arthropoda	Insecta	Trichoptera
Oxyethira	0	Arthropoda	Insecta	Trichoptera
Pachydiplax longipennis	0	Arthropoda	Insecta	Odonata
Pagastiella	0	Arthropoda	Insecta	Diptera
Palaemonetes	0	Arthropoda	Crustacea	Decapoda
Palaemonetes kadiakensis	0	Arthropoda	Crustacea	Decapoda
Palaemonetes paludosus	0	Arthropoda	Crustacea	Decapoda
Palpomyia/bezzia grp.	1	Arthropoda	Insecta	Diptera
Paracladopelma	0	Arthropoda	Insecta	Diptera
Paracladopelma loganae	0	Arthropoda	Insecta	Diptera
Paracladopelma undine	0	Arthropoda	Insecta	Diptera
Paragnetina	0	Arthropoda	Insecta	Plecoptera
Paragnetina fumosa	0	Arthropoda	Insecta	Plecoptera

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Parakiefferiella	0	Arthropoda	Insecta	Diptera
Paralauterborniella nigrohalterale	0	Arthropoda	Insecta	Diptera
Paraleptophlebia volitans	0	Arthropoda	Insecta	Ephemeroptera
Parametriocnemus	0	Arthropoda	Insecta	Diptera
Parametriocnemus sp. f epler	0	Arthropoda	Insecta	Diptera
Paranyctiophylax	0	Arthropoda	Insecta	Trichoptera
Paraplea	0	Arthropoda	Insecta	Heteroptera
Paraponyx	0	Arthropoda	Insecta	Lepidoptera
Paratanytarsus sp. a epler	0	Arthropoda	Insecta	Diptera
Paratanytarsus sp. c epler	0	Arthropoda	Insecta	Diptera
Paratendipes subaequalis	0	Arthropoda	Insecta	Diptera
Pelecypoda	0	Mollusca	Pelecypoda	Pelecypoda
Pelonomus obscurus	0	Arthropoda	Insecta	Coleoptera
Peltodytes	0	Arthropoda	Insecta	Coleoptera
Pentaneura inconspicua	0	Arthropoda	Insecta	Diptera
Perlesta	0	Arthropoda	Insecta	Plecoptera
Perlesta placida	0	Arthropoda	Insecta	Plecoptera
Perlesta placida complex	0	Arthropoda	Insecta	Plecoptera
Perlinella	0	Arthropoda	Insecta	Plecoptera
Petrophila	0	Arthropoda	Insecta	Lepidoptera
Phaenopsectra obediens grp.	0	Arthropoda	Insecta	Diptera
Phaenopsectra punctipes grp.	0	Arthropoda	Insecta	Diptera
Phylocentropus	0	Arthropoda	Insecta	Trichoptera
Physella	0	Mollusca	Gastropoda	Basommatophora
Physella cubensis	0	Mollusca	Gastropoda	Basommatophora
Piona	0	Arthropoda	Arachnida	Acariformes
Pisidiidae	0	Mollusca	Bivalvia	Veneroida
Pisidium	0	Mollusca	Bivalvia	Veneroida
Planariidae	0	Platyhelminthes	Turbellaria	Tricladida
Planorbella duryi	0	Mollusca	Gastropoda	Basommatophora
Planorbella scalaris	0	Mollusca	Gastropoda	Basommatophora
Planorbidae	0	Mollusca	Gastropoda	Basommatophora
Platyhelminthes	0	Platyhelminthes	Platyhelminthes	Platyhelminthes
Plecoptera	0	Arthropoda	Insecta	Plecoptera
Plumulariidae	0	Cnidaria	Hydrozoa	Hydroida
Polycentropodidae	0	Arthropoda	Insecta	Trichoptera
Polycentropus	0	Arthropoda	Insecta	Trichoptera
Polypedilum	0	Arthropoda	Insecta	Diptera
Polypedilum aviceps	0	Arthropoda	Insecta	Diptera
Polypedilum convictum grp.	0	Arthropoda	Insecta	Diptera
Polypedilum fallax	0	Arthropoda	Insecta	Diptera
Polypedilum flavum	0	Arthropoda	Insecta	Diptera

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Polypedilum halterale grp.	0	Arthropoda	Insecta	Diptera
Polypedilum illinoense	0	Arthropoda	Insecta	Diptera
Polypedilum illinoense grp.	0	Arthropoda	Insecta	Diptera
Polypedilum scalaenum	0	Arthropoda	Insecta	Diptera
Polypedilum scalaenum grp.	3	Arthropoda	Insecta	Diptera
Polypedilum sp. a epler	0	Arthropoda	Insecta	Diptera
Polypedilum tritum	1	Arthropoda	Insecta	Diptera
Pomacea paludosa	0	Mollusca	Gastropoda	Mesogastropoda
Pristina aequiseta	0	Annelida	Oligochaeta	Haplotaxida
Pristina synclites	0	Annelida	Oligochaeta	Haplotaxida
Pristinella jenkinae	0	Annelida	Oligochaeta	Haplotaxida
Probezzia	0	Arthropoda	Insecta	Diptera
Procambarus	0	Arthropoda	Crustacea	Decapoda
Procladius	0	Arthropoda	Insecta	Diptera
Procladius (holotanypus)	0	Arthropoda	Insecta	Diptera
Procloeon viridocularis	0	Arthropoda	Insecta	Ephemeroptera
Progomphus	0	Arthropoda	Insecta	Odonata
Progomphus obscurus	0	Arthropoda	Insecta	Odonata
Promoresia tardella	0	Arthropoda	Insecta	Coleoptera
Prostoma rubrum	0	Nemertea	Enopla	Hoplonemertea
Psammoryctides convolutus	0	Annelida	Oligochaeta	Haplotaxida
Pseudochironomus	0	Arthropoda	Insecta	Diptera
Pseudocloeon	0	Arthropoda	Insecta	Ephemeroptera
Psychodidae	1	Arthropoda	Insecta	Diptera
Pycnopsyche	0	Arthropoda	Insecta	Trichoptera
Pyralidae	0	Arthropoda	Insecta	Lepidoptera
Pyrgophorus platyrachis	0	Mollusca	Gastropoda	Mesogastropoda
Ranatra kirkaldyi	0	Arthropoda	Insecta	Heteroptera
Rhagovelia	0	Arthropoda	Insecta	Heteroptera
Rheocricotopus	0	Arthropoda	Insecta	Diptera
Rheocricotopus robacki	0	Arthropoda	Insecta	Diptera
Rheocricotopus tuberculatus	0	Arthropoda	Insecta	Diptera
Rheotanytarsus	0	Arthropoda	Insecta	Diptera
Rheotanytarsus distinctissimus grp.	0	Arthropoda	Insecta	Diptera
Rheotanytarsus exiguus	0	Arthropoda	Insecta	Diptera
Rheotanytarsus exiguus grp.	0	Arthropoda	Insecta	Diptera
Rheotanytarsus pellucidus	0	Arthropoda	Insecta	Diptera
Scirtes	0	Arthropoda	Insecta	Coleoptera
Scirtidae	0	Arthropoda	Insecta	Coleoptera
Serratella deficiens	0	Arthropoda	Insecta	Ephemeroptera
Sialis	0	Arthropoda	Insecta	Megaloptera
Silvius	0	Arthropoda	Insecta	Diptera

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Simuliidae	0	Arthropoda	Insecta	Diptera
Simulium	6	Arthropoda	Insecta	Diptera
Slavina appendiculata	0	Annelida	Oligochaeta	Haplotaxida
Somatogyrus walkerianus	0	Mollusca	Gastropoda	Mesogastropoda
Sperchon	0	Arthropoda	Arachnida	Acariformes
Sperchonopsis	0	Arthropoda	Arachnida	Acariformes
Sperchopsis	0	Arthropoda	Insecta	Coleoptera
Sphaeriidae	0	Mollusca	Bivalvia	Veneroida
Sphaeriidae(mollusca)	0	Mollusca	Bivalvia	Veneroida
Sphaeroma	0	Arthropoda	Crustacea	Isopoda
Sphaeromias	0	Arthropoda	Insecta	Diptera
Spirosperma	0	Annelida	Oligochaeta	Haplotaxida
Spirosperma ferox	0	Annelida	Oligochaeta	Haplotaxida
Stelechomyia perpulchra	3	Arthropoda	Insecta	Diptera
Stempellina	0	Arthropoda	Insecta	Diptera
Stempellina sp. a epler	0	Arthropoda	Insecta	Diptera
Stempellinella	0	Arthropoda	Insecta	Diptera
Stenacron	0	Arthropoda	Insecta	Ephemeroptera
Stenacron floridense	0	Arthropoda	Insecta	Ephemeroptera
Stenacron interpunctatum	0	Arthropoda	Insecta	Ephemeroptera
Stenelmis	0	Arthropoda	Insecta	Coleoptera
Stenelmis decorata	0	Arthropoda	Insecta	Coleoptera
Stenelmis hungerfordi	8	Arthropoda	Insecta	Coleoptera
Stenochironomus	15	Arthropoda	Insecta	Diptera
Stenonema	0	Arthropoda	Insecta	Ephemeroptera
Stenonema exiguum	0	Arthropoda	Insecta	Ephemeroptera
Stenonema smithae	0	Arthropoda	Insecta	Ephemeroptera
Stratiomyidae	0	Arthropoda	Insecta	Diptera
Stylaria lacustris	0	Annelida	Oligochaeta	Haplotaxida
Synorthocladius	0	Arthropoda	Insecta	Diptera
Tabanus	0	Arthropoda	Insecta	Diptera
Taeniopteryx lita	0	Arthropoda	Insecta	Plecoptera
Tanytarsus	1	Arthropoda	Insecta	Diptera
Tanytarsus sp. a epler	0	Arthropoda	Insecta	Diptera
Tanytarsus sp. c epler	0	Arthropoda	Insecta	Diptera
Tanytarsus sp. d epler	0	Arthropoda	Insecta	Diptera
Tanytarsus sp. e epler	0	Arthropoda	Insecta	Diptera
Tanytarsus sp. g epler	0	Arthropoda	Insecta	Diptera
Tanytarsus sp. l epler	0	Arthropoda	Insecta	Diptera
Tanytarsus sp. m epler	0	Arthropoda	Insecta	Diptera
Tanytarsus sp. o epler	0	Arthropoda	Insecta	Diptera
Tanytarsus sp. r epler	0	Arthropoda	Insecta	Diptera
Tanytarsus sp. s epler	0	Arthropoda	Insecta	Diptera
Tanytarsus sp. t epler	0	Arthropoda	Insecta	Diptera
Tanytarsus sp. u epler	0	Arthropoda	Insecta	Diptera
Taphromysis bowmani	0	Arthropoda	Crustacea	Mysidacea

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Thienemanniella	0	Arthropoda	Insecta	Diptera
Thienemanniella lobapodema	0	Arthropoda	Insecta	Diptera
Thienemanniella similis	0	Arthropoda	Insecta	Diptera
Thienemanniella sp. a epler	0	Arthropoda	Insecta	Diptera
Thienemannimyia grp.	0	Arthropoda	Insecta	Diptera
Tipula	0	Arthropoda	Insecta	Diptera
Tipulidae	0	Arthropoda	Insecta	Diptera
Torrenticola	0	Arthropoda	Arachnida	Acariformes
Triaenodes	0	Arthropoda	Insecta	Trichoptera
Triaenodes ignitus	0	Arthropoda	Insecta	Trichoptera
Triaenodes perna	0	Arthropoda	Insecta	Trichoptera
Tribelos	0	Arthropoda	Insecta	Diptera
Tribelos atrum	0	Arthropoda	Insecta	Diptera
Tribelos fuscicornis	0	Arthropoda	Insecta	Diptera
Tribelos jucundum	0	Arthropoda	Insecta	Diptera
Tricorythodes albilineatus	0	Arthropoda	Insecta	Ephemeroptera
Tubificidae	0	Annelida	Oligochaeta	Haplotaxida
Turbellaria	0	Platyhelminthes	Turbellaria	Turbellaria
Tvetenia	0	Arthropoda	Insecta	Diptera
Tvetenia discoloripes grp.	0	Arthropoda	Insecta	Diptera
Unionicola	0	Arthropoda	Arachnida	Acariformes
Unniella multivirga	0	Arthropoda	Insecta	Diptera
Veliidae	0	Arthropoda	Insecta	Heteroptera
Xenochironomus xenolabis	0	Arthropoda	Insecta	Diptera
Xestochironomus	0	Arthropoda	Insecta	Diptera
Xylotopus par	1	Arthropoda	Insecta	Diptera
Zygoptera	0	Arthropoda	Insecta	Zygoptera

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Taxon Name / SampleID/BenID ->	Family	Genus	Current Name
Ablabesmyia (karelia) grp.	Chironomidae	Ablabesmyia	
Ablabesmyia hauberi	Chironomidae	Ablabesmyia	
Ablabesmyia mallochi	Chironomidae	Ablabesmyia	
Ablabesmyia rhamphe grp.	Chironomidae	Ablabesmyia	
Acentrella parvula	Baetidae	Acentrella	
Acerpenna pygmaea	Baetidae	Acerpenna	
Acroneuria	Perlidae	Acroneuria	
Acroneuria abnormis	Perlidae	Acroneuria	
Acroneuria arenosa	Perlidae	Acroneuria	Acroneuria arenosa/evoluta
Acroneuria arenosa/evoluta	Perlidae	Acroneuria	
Acroneuria lycorias	Perlidae	Acroneuria	
Agarodes libalis	Sericostomatidae	Agarodes	
Alluaudomyia	Ceratopogonidae	Alluaudomyia	
Amnicola	Bithyniidae	Amnicola	
Amnicola dalli	Bithyniidae	Amnicola	
Amnicola dalli johnsoni	Bithyniidae	Amnicola	
Amphipoda	Amphipoda	Amphipoda	
Ancylidae	Ancylidae	Ancylidae	
Ancyronyx	Elmidae	Ancyronyx	
Ancyronyx variegatus	Elmidae	Ancyronyx	
Anisocentropus pyraloides	Calamoceratidae	Anisocentropus	
Anopheles	Culicidae	Anopheles	
Apsectrotanypus johnsoni	Chironomidae	Apsectrotanypus	
Argia	Coenagrionidae	Argia	
Argia fumipennis	Coenagrionidae	Argia	
Argia moesta	Coenagrionidae	Argia	
Argia sedula	Coenagrionidae	Argia	
Argia tibialis	Coenagrionidae	Argia	
Arrenurus	Arrenuridae	Arrenurus	
Arrenurus problecornis	Arrenuridae	Arrenurus	
Astacidae	Astacidae	Astacidae	Cambaridae
Atherix	Athericidae	Atherix	
Atractides	Hygrobatidae	Atractides	
Atrichopogon	Ceratopogonidae	Atrichopogon	
Aulodrilus pigueti	Tubificidae	Aulodrilus	
Aulodrilus pluriseta	Tubificidae	Aulodrilus	
Baetidae	Baetidae	Baetidae	
Baetis	Baetidae	Baetis	
Baetis intercalaris	Baetidae	Baetis	
Baetisca rogersi	Baetiscidae	Baetisca	
Beardius truncatus	Chironomidae	Beardius	
Belostoma	Belostomatidae	Belostoma	
Belostomatidae	Belostomatidae	Belostomatidae	
Bivalvia	Bivalvia	Bivalvia	
Bourletiella	Sminthuridae	Bourletiella	
Boyeria vinosa	Aeshnidae	Boyeria	
Brachycentrus	Brachycentridae	Brachycentrus	
Brachycentrus chelatus	Brachycentridae	Brachycentrus	
Brachycentrus numerosus	Brachycentridae	Brachycentrus	

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Brachycercus maculatus	Caenidae	Sparbarus	Sparbarus maculata
Caecidotea	Asellidae	Caecidotea	
Caecidotea racovitzai	Asellidae	Caecidotea	
Caenis	Caenidae	Caenis	
Caenis diminuta	Caenidae	Caenis	
Caenis hilaris	Caenidae	Caenis	
Callibaetis floridanus	Baetidae	Callibaetis	
Calopteryx	Calopterygidae	Calopteryx	
Calopteryx maculata	Calopterygidae	Calopteryx	
Cambaridae	Cambaridae	Cambaridae	
Campeloma	Viviparidae	Campeloma	
Campeloma limum	Viviparidae	Campeloma	
Cassidinidea ovalis	Sphaeromatidae	Cassidinidea	
Cecidomyiidae	Cecidomyiidae	Cecidomyiidae	
Ceratopogonidae	Ceratopogonidae	Ceratopogonidae	
Cernotina	Polycentropodidae	Cernotina	
Chaoborus	Chaoboridae	Chaoborus	
Chaoborus albatus	Chaoboridae	Chaoborus	
Chauliodes	Corydalidae	Chauliodes	
Chelifera	Empididae	Chelifera	
Cheumatopsyche	Hydropsychidae	Cheumatopsyche	
Chimarra	Philopotamidae	Chimarra	
Chironomus	Chironomidae	Chironomus	
Choroterpes basalis	Leptophlebiidae	Choroterpes	Choroterpes basalis
Choroterpes hubbelli	Leptophlebiidae	Choroterpes	
Cladotanytarsus	Chironomidae	Cladotanytarsus	
Cladotanytarsus cf. daviesi	Chironomidae	Cladotanytarsus	
Cladotanytarsus sp. i epler	Chironomidae	Cladotanytarsus	
Clathrosperchon	Clathrosperchonidae	Clathrosperchon	
Climacea areolaris	Sisyridae	Climacia	Climacia areolaris
Clinotanypus	Chironomidae	Clinotanypus	
Coelotanypus	Chironomidae	Coelotanypus	
Coelotanypus scapularis	Chironomidae	Coelotanypus	
Coenagrionidae	Coenagrionidae	Coenagrionidae	
Collembola	Collembola	Collembola	
Conchapelopia	Chironomidae	Conchapelopia	
Corbicula fluminea	Corbiculidae	Corbicula	
Corduliidae	Corduliidae	Corduliidae	Libellulidae
Corydalus	Corydalidae	Corydalus	
Corydalus cornuta	Corydalidae	Corydalus	Corydalus cornutus
Corydalus cornutus	Corydalidae	Corydalus	
Corynoneura	Chironomidae	Corynoneura	
Corynoneura sp. b epler	Chironomidae	Corynoneura	
Corynoneura sp. c epler	Chironomidae	Corynoneura	
Corynoneura taris	Chironomidae	Corynoneura	

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Crangonyx	Crangonyctidae	Crangonyx	
Cricotopus	Chironomidae	Cricotopus	
Cricotopus bicinctus	Chironomidae	Cricotopus	
Cricotopus bicinctus grp.	Chironomidae	Cricotopus	
Cricotopus or orthocladius	Chironomidae	Cricotopus or orthocladius	
Cryptochironomus	Chironomidae	Cryptochironomus	
Cryptotendipes	Chironomidae	Cryptotendipes	
Curculionidae	Curculionidae	Curculionidae	
Cyrnellus fraternus	Polycentropodidae	Cyrnellus	
Demicryptochironomus	Chironomidae	Demicryptochironomus	
Dero digitata	Naididae	Dero	Dero digitata complex
Dero digitata complex	Naididae	Dero	
Dero lodeni	Naididae	Dero	
Dero pectinata	Naididae	Dero	
Dero trifida	Naididae	Dero	Dero digitata complex
Dero vaga	Naididae	Dero	
Dicrotendipes	Chironomidae	Dicrotendipes	
Dicrotendipes modestus	Chironomidae	Dicrotendipes	
Dicrotendipes neomodestus	Chironomidae	Dicrotendipes	
Dicrotendipes simpsoni	Chironomidae	Dicrotendipes	
Dicrotendipes sp. a epler	Chironomidae	Dicrotendipes	
Dineutus	Gyrinidae	Dineutus	
Dineutus discolor	Gyrinidae	Dineutus	
Dineutus serrulatus	Gyrinidae	Dineutus	
Diplectrona modesta	Hydropsychidae	Diplectrona	
Dixa	Dixidae	Dixa	
Dixella	Dixidae	Dixella	
Djalmabatista pulcher	Chironomidae	Djalmabatista	
Dolichopodidae	Dolichopodidae	Dolichopodidae	
Dromogomphus armatus	Gomphidae	Dromogomphus	
Dromogomphus spinosus	Gomphidae	Dromogomphus	
Dryopidae	Dryopidae	Dryopidae	
Dubiraphia	Elmidae	Dubiraphia	
Dubiraphia quadrinotata	Elmidae	Dubiraphia	
Dubiraphia vittata	Elmidae	Dubiraphia	
Dugesia	Dugesiidae	Dugesia	Girardia
Dugesia tigrina	Dugesiidae	Dugesia	
Eclipidrilus	Lumbriculidae	Eclipidrilus	
Eclipidrilus palustris	Lumbriculidae	Eclipidrilus	
Ectopria	Psephenidae	Ectopria	
Elimia	Pleuroceridae	Elimia	
Elimia floridensis	Pleuroceridae	Elimia	
Empididae	Empididae	Empididae	
Enallagma	Coenagrionidae	Enallagma	

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Enallagma cardenium	Coenagrionidae	Enallagma	Enallagma coecum
Enchytraeidae	Enchytraeidae	Enchytraeidae	
Endotribelos hesperium	Chironomidae	Endotribelos	
Enochrus	Hydrophilidae	Enochrus	
Ephemerellidae	Ephemerellidae	Ephemerellidae	
Ephydridae	Ephydridae	Ephydridae	
Epitheca	Libellulidae	Epitheca	Tetragoneuria
Epitheca princeps regina	Libellulidae	Epicordulia	Epicordulia regina
Eurylophella doris	Ephemerellidae	Eurylophella	
Eurylophella temporalis	Ephemerellidae	Eurylophella	Eurylophella doris
Ferrissia	Ancylidae	Ferrissia	
Gammaridae	Gammaridae	Gammaridae	
Gammarus	Gammaridae	Gammarus	
Gammarus tigrinus	Gammaridae	Gammarus	Gammarus cf. tigrinus
Gastropoda	Gastropoda	Gastropoda	
Geayia	Krendowskiidae	Geayia	
Gerridae	Gerridae	Gerridae	
Gloiobdella elongata	Glossiphoniidae	Gloiobdella	
Goeldichironomus fluctuans	Chironomidae	Goeldichironomus	
Gomphidae	Gomphidae	Gomphidae	
Gomphus	Gomphidae	Gomphus	
Gomphus minutus	Gomphidae	Gomphus	
Gonielmis	Elmidae	Gonielmis	
Gonielmis dietrichi	Elmidae	Gonielmis	
Grandidierella bonnieroides	Aoridae	Grandidierella	
Gyretes iricolor	Gyrinidae	Gyretes	
Haber speciosus	Tubificidae	Haber	
Hagenius brevistylus	Gomphidae	Hagenius	
Hebetancylus excentricus	Ancylidae	Hebetancylus	
Helobdella stagnalis	Glossiphoniidae	Helobdella	
Helobdella triserialis	Glossiphoniidae	Helobdella	
Helopelopia	Chironomidae	Helopelopia	
Hemerodromia	Empididae	Hemerodromia	
Hemiptera	Hemiptera	Hemiptera	Heteroptera
Heptageniidae	Heptageniidae	Heptageniidae	
Hetaerina	Calopterygidae	Hetaerina	
Hetaerina titia	Calopterygidae	Hetaerina	
Heteroplectron americanum	Calamoceratidae	Heteroplectron	
Hexagenia	Ephemeridae	Hexagenia	
Hexagenia bilineata	Ephemeridae	Hexagenia	
Hexagenia limbata	Ephemeridae	Hexagenia	
Hexagenia munda orlando	Ephemeridae	Hexagenia	
Hexatoma	Tipulidae	Hexatoma	
Hyalella azteca	Hyalellidae	Hyalella	
Hydra	Hydridae	Hydra	
Hydrachna	Hydrachnidae	Hydrachna	
Hydraena marginicollis	Hydraenidae	Hydraena	
Hydraenidae	Hydraenidae	Hydraenidae	

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Hydrobiidae	Hydrobiidae	Hydrobiidae	
Hydrodroma	Hydrodromidae	Hydrodroma	
Hydrophilidae	Hydrophilidae	Hydrophilidae	
Hydroporus	Dytiscidae	Hydroporus	
Hydropsyche	Hydropsychidae	Hydropsyche	
Hydropsyche decalda	Hydropsychidae	Hydropsyche	
Hydropsychidae	Hydropsychidae	Hydropsychidae	
Hydroptila	Hydroptilidae	Hydroptila	
Hydroptilidae	Hydroptilidae	Hydroptilidae	
Hygrobates	Hygrobatidae	Hygrobates	
Hygrotus	Dytiscidae	Hygrotus	
Ischnura	Coenagrionidae	Ischnura	
Ischnura hastata	Coenagrionidae	Ischnura	
Isonychia	Oligoneuriidae	Isonychia	
Isoperla	Perlodidae	Isoperla	
Isopoda	Isopoda	Isopoda	
Isotomurus	Isotomidae	Isotomurus	
Isotomurus tricolor	Isotomidae	Isotomurus	
Kiefferulus	Chironomidae	Kiefferulus	
Krendowskia	Krendowskiidae	Krendowskia	
Labiobaetis	Baetidae	Labiobaetis	Pseudocloeon
Labrundinia	Chironomidae	Labrundinia	
Labrundinia becki	Chironomidae	Labrundinia	
Labrundinia johannseni	Chironomidae	Labrundinia	
Labrundinia neopilosella	Chironomidae	Labrundinia	
Labrundinia pilosella	Chironomidae	Labrundinia	
Laevapex	Ancylidae	Laevapex	
Laevapex peninsulae	Ancylidae	Laevapex	
Larsia berneri	Chironomidae	Larsia	
Larsia decolorata	Chironomidae	Larsia	
Lauterborniella agrayloides	Chironomidae	Lauterborniella	
Lebertia	Lebertiidae	Lebertia	
Lepidoptera	Lepidoptera	Lepidoptera	
Leptoceridae	Leptoceridae	Leptoceridae	
Leptophlebia	Leptophlebiidae	Leptophlebia	
Leptophlebiidae	Leptophlebiidae	Leptophlebiidae	
Leuctra	Leuctridae	Leuctra	
Libellulidae	Libellulidae	Libellulidae	
Limnesia	Limnesiidae	Limnesia	
Limnodrilus hoffmeisteri	Tubificidae	Limnodrilus	
Limnophila	Tipulidae	Limnophila	
Limonia	Tipulidae	Limonia	
Liodessus	Dytiscidae	Liodessus	
Liodessus affinis	Dytiscidae	Liodessus	Liodessus novaffinis
Lioporeus	Dytiscidae	Lioporeus	
Lirceus	Asellidae	Lirceus	
Littoridinops monroensis	Hydrobiidae	Littoridinops	
Lumbriculidae	Lumbriculidae	Lumbriculidae	
Lumbriculus variegatus	Lumbriculidae	Lumbriculus	

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenID ->	Family	Genus	Current Name
Lype diversa	Psychomyiidae	Lype	
Maccaffertium	Heptageniidae	Maccaffertium	
Maccaffertium smithae	Heptageniidae	Maccaffertium	
Macromia	Libellulidae	Macromia	
Macromia taeniolata	Libellulidae	Macromia	
Macromiidae	Macromiidae	Macromiidae	
Macronychus glabratus	Elmidae	Macronychus	
Macrostemum carolina	Hydropsychidae	Macrostemum	
Mayatrichia	Hydroptilidae	Mayatrichia	
Mayatrichia ayama	Hydroptilidae	Mayatrichia	
Meropelopia	Chironomidae	Meropelopia	
Mesosmittia	Chironomidae	Mesosmittia	
Metrobates	Gerridae	Metrobates	
Micrasema	Brachycentridae	Micrasema	
Micrasema rusticum	Brachycentridae	Micrasema	
Micrasema wataga	Brachycentridae	Micrasema	
Microcylloepus	Elmidae	Microcylloepus	
Microcylloepus pusillus	Elmidae	Microcylloepus	
Micromenetus	Planorbidae	Micromenetus	
Micromenetus dilatatus	Planorbidae	Micromenetus	
Microtendipes pedellus	Chironomidae	Microtendipes	
Microtendipes pedellus grp.	Chironomidae	Microtendipes	
Microtendipes rydalensis	Chironomidae	Microtendipes	
Microtendipes rydalensis grp.	Chironomidae	Microtendipes	
Mideopsis	Mideopsidae	Mideopsis	
Molanna	Molannidae	Molanna	
Mooreobdella	Erpobdellidae	Mooreobdella	
Mooreobdella tetragon	Erpobdellidae	Mooreobdella	
Muscidae	Muscidae	Muscidae	
Naididae	Naididae	Naididae	
Nais behningi	Naididae	Nais(animal)	
Nais communis	Naididae	Nais(animal)	Nais communis complex
Nais communis complex	Naididae	Nais(animal)	
Nais pardalis	Naididae	Nais(animal)	Nais communis complex
Nais simplex	Naididae	Nais(animal)	
Nais variabilis	Naididae	Nais(animal)	Nais communis complex
Nanocladius	Chironomidae	Nanocladius	
Nectopsyche	Leptoceridae	Nectopsyche	
Nectopsyche candida	Leptoceridae	Nectopsyche	
Nectopsyche exquisita	Leptoceridae	Nectopsyche	
Nectopsyche pavida	Leptoceridae	Nectopsyche	
Nemertea	Nemertea	Nemertea	
Neoperla	Perlidae	Neoperla	
Neoperla clymene	Perlidae	Neoperla	
Neoporus	Dytiscidae	Neoporus	
Neotrichia	Hydroptilidae	Neotrichia	
Neumania	Unionicolidae	Neumania	

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenID ->	Family	Genus	Current Name
Neumania distincta	Unionicolidae	Neumania	
Neureclipsis	Polycentropodidae	Neureclipsis	
Neureclipsis crepuscularis	Polycentropodidae	Neureclipsis	
Neurocordulia	Libellulidae	Neurocordulia	
Neurocordulia alabamensis	Libellulidae	Neurocordulia	
Neurocordulia virginiensis	Libellulidae	Neurocordulia	
Nigronia	Corydalidae	Nigronia	
Nigronia fasciatus	Corydalidae	Nigronia	
Nigronia serricornis	Corydalidae	Nigronia	
Nilotanypus	Chironomidae	Nilotanypus	
Nilothauma	Chironomidae	Nilothauma	
Notogillia wetherbyi	Hydrobiidae	Notogillia	
Nyctiophylax	Polycentropodidae	Nyctiophylax	
Odonata	Odonata	Odonata	
Odontomyia	Stratiomyidae	Odontomyia	
Oecetis	Leptoceridae	Oecetis	
Oecetis cinerascens	Leptoceridae	Oecetis	
Oecetis georgia	Leptoceridae	Oecetis	
Oecetis inconspicua cmplx.	Leptoceridae	Oecetis	
Oecetis morsei or sphyra	Leptoceridae	Oecetis	Oecetis sphyra/morsei
Oecetis parva	Leptoceridae	Oecetis	
Oecetis persimilis	Leptoceridae	Oecetis	
Oecetis sp. a floyd	Leptoceridae	Oecetis	
Oecetis sp. e floyd	Leptoceridae	Oecetis	
Ora/scirtes	Scirtidae	Ora/scirtes	
Oribatei	Oribatei	Oribatei	Oribatida
Orthocladiinae	Orthocladiinae	Orthocladiinae	
Orthocladiinae gen. c epler	Chironomidae	Orthocladiinae gen. c epler	
Orthocladiinae gen. f epler	Chironomidae	Orthocladiinae gen. f epler	
Orthocladius annectens	Chironomidae	Orthocladius	
Orthotrichia	Hydroptilidae	Orthotrichia	
Oxyethira	Hydroptilidae	Oxyethira	
Pachydiplax longipennis	Libellulidae	Pachydiplax	
Pagastiella	Chironomidae	Pagastiella	
Palaemonetes	Palaemonidae	Palaemonetes	
Palaemonetes kadiakensis	Palaemonidae	Palaemonetes	
Palaemonetes paludosus	Palaemonidae	Palaemonetes	
Palpomyia/bezzia grp.	Ceratopogonidae	Palpomyia/bezzia grp.	
Paracladopelma	Chironomidae	Paracladopelma	
Paracladopelma loganae	Chironomidae	Paracladopelma	
Paracladopelma undine	Chironomidae	Paracladopelma	
Paragnetina	Perlidae	Paragnetina	
Paragnetina fumosa	Perlidae	Paragnetina	

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenID ->	Family	Genus	Current Name
Parakiefferiella	Chironomidae	Parakiefferiella	
Paralauterborniella nigrohalterale	Chironomidae	Paralauterborniella	
Paraleptophlebia volitans	Leptophlebiidae	Paraleptophlebia	
Parametriocnemus	Chironomidae	Parametriocnemus	
Parametriocnemus sp. f epler	Chironomidae	Parametriocnemus	
Paranyctiophylax	Polycentropodidae	Paranyctiophylax	
Paraplea	Pleidae	Paraplea	
Paraponyx	Pyralidae	Paraponyx	Parapoynx
Paratanytarsus sp. a epler	Chironomidae	Paratanytarsus	
Paratanytarsus sp. c epler	Chironomidae	Paratanytarsus	
Paratendipes subaequalis	Chironomidae	Paratendipes	
Pelecypoda	Pelecypoda	Pelecypoda	Bivalvia
Pelonomus obscurus	Dryopidae	Pelonomus	
Peltodytes	Haliplidae	Peltodytes	
Pentaneura inconspicua	Chironomidae	Pentaneura	
Perlesta	Perlidae	Perlesta	
Perlesta placida	Perlidae	Perlesta	
Perlesta placida complex	Perlidae	Perlesta	
Perlinella	Perlidae	Perlinella	
Petrophila	Pyralidae	Petrophila	
Phaenopsectra obediens grp.	Chironomidae	Phaenopsectra	
Phaenopsectra punctipes grp.	Chironomidae	Phaenopsectra	
Phylocentropus	Dipseudopsidae	Phylocentropus	
Physella	Physidae	Physella	Physa
Physella cubensis	Physidae	Haitia	Haitia
Piona	Pionidae	Piona	
Pisidiidae	Pisidiidae	Pisidiidae	Sphaeriidae(mollusca)
Pisidium	Pisidiidae	Pisidium	
Planariidae	Planariidae	Planariidae	
Planorbella duryi	Planorbidae	Planorbella	
Planorbella scalaris	Planorbidae	Planorbella	
Planorbidae	Planorbidae	Planorbidae	
Platyhelminthes	Platyhelminthes	Platyhelminthes	
Plecoptera	Plecoptera	Plecoptera	
Plumulariidae	Plumulariidae	Plumulariidae	
Polycentropodidae	Polycentropodidae	Polycentropodidae	
Polycentropus	Polycentropodidae	Polycentropus	
Polypedilum	Chironomidae	Polypedilum	
Polypedilum aviceps	Chironomidae	Polypedilum	
Polypedilum convictum grp.	Chironomidae	Polypedilum	Polypedilum flavum
Polypedilum fallax	Chironomidae	Polypedilum	
Polypedilum flavum	Chironomidae	Polypedilum	

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenID ->	Family	Genus	Current Name
Polypedilum halterale grp.	Chironomidae	Polypedilum	
Polypedilum illinoense	Chironomidae	Polypedilum	Polypedilum illinoense grp.
Polypedilum illinoense grp.	Chironomidae	Polypedilum	
Polypedilum scalaenum	Chironomidae	Polypedilum	Polypedilum scalaenum grp.
Polypedilum scalaenum grp.	Chironomidae	Polypedilum	
Polypedilum sp. a epler	Chironomidae	Polypedilum	
Polypedilum tritum	Chironomidae	Polypedilum	
Pomacea paludosa	Ampullariidae	Pomacea	
Pristina aequiseta	Naididae	Pristina	
Pristina synclites	Naididae	Pristina	
Pristinella jenkinae	Naididae	Pristina	Pristina jenkinae
Probezzia	Ceratopogonidae	Probezzia	
Procambarus	Cambaridae	Procambarus	
Procladius	Chironomidae	Procladius	
Procladius (holotanypus)	Chironomidae	Procladius (holotanypus)	
Procloeon viridocularis	Baetidae	Procloeon	
Progomphus	Gomphidae	Progomphus	
Progomphus obscurus	Gomphidae	Progomphus	
Promoresia tardella	Elmidae	Promoresia	
Prostoma rubrum	Tetrastemmatidae	Prostoma	Prostoma graecense
Psammoryctides convolutus	Tubificidae	Psammoryctides	
Pseudochironomus	Chironomidae	Pseudochironomus	
Pseudocloeon	Baetidae	Pseudocloeon	
Psychodidae	Psychodidae	Psychodidae	
Pycnopsyche	Limnephilidae	Pycnopsyche	
Pyralidae	Pyralidae	Pyralidae	
Pyrgophorus platyrachis	Hydrobiidae	Pyrgophorus	
Ranatra kirkaldyi	Nepidae	Ranatra	
Rhagovelia	Veliidae	Rhagovelia	
Rheocricotopus	Chironomidae	Rheocricotopus	
Rheocricotopus robacki	Chironomidae	Rheocricotopus	
Rheocricotopus tuberculatus	Chironomidae	Rheocricotopus	
Rheotanytarsus	Chironomidae	Rheotanytarsus	
Rheotanytarsus distinctissimus grp.	Chironomidae	Rheotanytarsus	Rheotanytarsus pellucidus
Rheotanytarsus exiguus	Chironomidae	Rheotanytarsus	Rheotanytarsus exiguus grp.
Rheotanytarsus exiguus grp.	Chironomidae	Rheotanytarsus	
Rheotanytarsus pellucidus	Chironomidae	Rheotanytarsus	
Scirtes	Scirtidae	Scirtes	Ora/scirtes
Scirtidae	Scirtidae	Scirtidae	
Serratella deficiens	Ephemerellidae	Teloganopsis	Teloganopsis deficiens
Sialis	Sialidae	Sialis	
Silvius	Tabanidae	Silvius	

As Calculated / STORET station ->
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Taxon Name / SampleID/BenID ->	Family	Genus	Current Name
Simuliidae	Simuliidae	Simuliidae	
Simulium	Simuliidae	Simulium	
Slavina appendiculata	Naididae	Slavina	
Somatogyrus walkerianus	Hydrobiidae	Somatogyrus	
Sperchon	Sperchonidae	Sperchon	
Sperchonopsis	Sperchonidae	Sperchonopsis	
Sperchopsis	Hydrophilidae	Sperchopsis	
Sphaeriidae	Sphaeriidae	Sphaeriidae	Sphaeriidae(mollusca)
Sphaeriidae(mollusca)	Sphaeriidae(mollusca)	Sphaeriidae(mollusca)	
Sphaeroma	Sphaeromatidae	Sphaeroma	
Sphaeromias	Ceratopogonidae	Sphaeromias	
Spirosperma	Tubificidae	Spirosperma	
Spirosperma ferox	Tubificidae	Spirosperma	
Stelechomyia perpulchra	Chironomidae	Stelechomyia	
Stempellina	Chironomidae	Stempellina	
Stempellina sp. a epler	Chironomidae	Stempellina	
Stempellinella	Chironomidae	Stempellinella	
Stenacron	Heptageniidae	Stenacron	
Stenacron floridense	Heptageniidae	Stenacron	
Stenacron interpunctatum	Heptageniidae	Stenacron	
Stenelmis	Elmidae	Stenelmis	
Stenelmis decorata	Elmidae	Stenelmis	
Stenelmis hungerfordi	Elmidae	Stenelmis	
Stenochironomus	Chironomidae	Stenochironomus	
Stenonema	Heptageniidae	Stenonema	Maccaffertium
Stenonema exiguum	Heptageniidae	Maccaffertium	Maccaffertium exiguum
Stenonema smithae	Heptageniidae	Maccaffertium	Maccaffertium smithae
Stratiomyidae	Stratiomyidae	Stratiomyidae	
Stylaria lacustris	Naididae	Stylaria	
Synorthocladius	Chironomidae	Synorthocladius	
Tabanus	Tabanidae	Tabanus	
Taeniopteryx lita	Taeniopterygidae	Taeniopteryx	
Tanytarsus	Chironomidae	Tanytarsus	
Tanytarsus sp. a epler	Chironomidae	Tanytarsus	
Tanytarsus sp. c epler	Chironomidae	Tanytarsus	
Tanytarsus sp. d epler	Chironomidae	Tanytarsus	
Tanytarsus sp. e epler	Chironomidae	Tanytarsus	
Tanytarsus sp. g epler	Chironomidae	Tanytarsus	
Tanytarsus sp. l epler	Chironomidae	Tanytarsus	
Tanytarsus sp. m epler	Chironomidae	Tanytarsus	
Tanytarsus sp. o epler	Chironomidae	Tanytarsus	
Tanytarsus sp. r epler	Chironomidae	Tanytarsus	
Tanytarsus sp. s epler	Chironomidae	Tanytarsus	
Tanytarsus sp. t epler	Chironomidae	Tanytarsus	
Tanytarsus sp. u epler	Chironomidae	Tanytarsus	
Taphromysis bowmani	Mysidae	Taphromysis	

As Calculated / STORET station ->
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Taxon Name / SampleID/BenID ->	Family	Genus	Current Name
Thienemanniella	Chironomidae	Thienemanniella	
Thienemanniella lobapodema	Chironomidae	Thienemanniella	
Thienemanniella similis	Chironomidae	Thienemanniella	
Thienemanniella sp. a epler	Chironomidae	Thienemanniella	Thienemanniella lobapodema
Thienemannimyia grp.	Chironomidae	Thienemannimyia grp.	
Tipula	Tipulidae	Tipula	
Tipulidae	Tipulidae	Tipulidae	
Torrenticola	Torrenticolidae	Torrenticola	
Triaenodes	Leptoceridae	Triaenodes	
Triaenodes ignitus	Leptoceridae	Triaenodes	
Triaenodes perna	Leptoceridae	Triaenodes	
Tribelos	Chironomidae	Tribelos	
Tribelos atrum	Chironomidae	Tribelos	
Tribelos fuscicornis	Chironomidae	Tribelos	
Tribelos jucundum	Chironomidae	Tribelos	
Tricorythodes albilineatus	Leptohyphidae	Tricorythodes	
Tubificidae	Tubificidae	Tubificidae	
Turbellaria	Turbellaria	Turbellaria	
Tvetenia	Chironomidae	Tvetenia	
Tvetenia discoloripes grp.	Chironomidae	Tvetenia	
Unionicola	Unionicolidae	Unionicola	
Unniella multivirga	Chironomidae	Unniella	
Veliidae	Veliidae	Veliidae	
Xenochironomus xenolabis	Chironomidae	Xenochironomus	
Xestochironomus	Chironomidae	Xestochironomus	
Xylotopus par	Chironomidae	Xylotopus	
Zygoptera	Zygoptera	Zygoptera	

As Calculated / STORET station ->
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Taxon Name / SampleID/BenID ->

Ablabesmyia (karelia) grp.
Ablabesmyia hauberi
Ablabesmyia mallochi
Ablabesmyia rhamphe grp.
Acentrella parvula
Acerpenna pygmaea
Acroneuria
Acroneuria abnormis

Acroneuria arenosa
Acroneuria arenosa/evoluta
Acroneuria lycorias
Agarodes libalis
Alluaudomyia
Amnicola
Amnicola dalli
Amnicola dalli johnsoni
Amphipoda
Ancylidae
Ancyronyx
Ancyronyx variegatus
Anisocentropus pyraloides
Anopheles
Apsectrotanypus johnsoni
Argia
Argia fumipennis
Argia moesta
Argia sedula
Argia tibialis
Arrenurus
Arrenurus problecornis
Astacidae
Atherix
Atractides
Atrichopogon
Aulodrilus pigueti
Aulodrilus pluriseta
Baetidae
Baetis
Baetis intercalaris
Baetisca rogersi
Beardius truncatus
Belostoma
Belostomatidae
Bivalvia
Bourletiella
Boyeria vinosa
Brachycentrus
Brachycentrus chelatus
Brachycentrus numerosus

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Sample date ->

Taxon Name / SampleID/BenID ->

Brachycercus maculatus
Caecidotea
Caecidotea racovitzai
Caenis
Caenis diminuta
Caenis hilaris
Callibaetis floridanus
Calopteryx
Calopteryx maculata
Cambaridae
Campeloma
Campeloma limum
Cassidinidea ovalis
Cecidomyiidae
Ceratopogonidae

Cernotina
Chaoborus
Chaoborus albatus
Chauliodes
Chelifera
Cheumatopsyche
Chimarra
Chironomus
Choroterpes basalis

Choroterpes hubbelli
Cladotanytarsus
Cladotanytarsus cf. daviesi
Cladotanytarsus sp. i epler

Clathrosperchon
Climacea areolaris
Clinotanypus
Coelotanypus
Coelotanypus scapularis
Coenagrionidae
Collembola
Conchapelopia
Corbicula fluminea
Corduliidae
Corydalus

Corydalus cornuta
Corydalus cornutus
Corynoneura
Corynoneura sp. b epler
Corynoneura sp. c epler
Corynoneura taris

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenID ->

Crangonyx
Cricotopus
Cricotopus bicinctus
Cricotopus bicinctus grp.

Cricotopus or orthocladius

Cryptochironomus
Cryptotendipes
Curculionidae

Cyrnellus fraternus

Demicryptochironomus

Dero digitata
Dero digitata complex
Dero lodeni
Dero pectinata

Dero trifida
Dero vaga
Dicrotendipes
Dicrotendipes modestus
Dicrotendipes neomodestus
Dicrotendipes simpsoni
Dicrotendipes sp. a epler
Dineutus
Dineutus discolor
Dineutus serrulatus
Diplectrona modesta
Dixa
Dixella
Djalmabatista pulcher
Dolichopodidae
Dromogomphus armatus
Dromogomphus spinosus
Dryopidae
Dubiraphia
Dubiraphia quadrinotata
Dubiraphia vittata
Dugesia
Dugesia tigrina
Eclipidrilus
Eclipidrilus palustris
Ectopria
Elimia
Elimia floridensis
Empididae
Enallagma

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Taxon Name / SampleID/BenID ->

Enallagma cardenium
Enchytraeidae
Endotribelos hesperium
Enochrus
Ephemerellidae
Ephydridae
Epitheca
Epitheca princeps regina
Eurylophella doris
Eurylophella temporalis
Ferrissia
Gammaridae
Gammarus

Gammarus tigrinus
Gastropoda
Geayia
Gerridae
Gloiobdella elongata
Goeldichironomus fluctuans
Gomphidae
Gomphus
Gomphus minutus
Gonielmis
Gonielmis dietrichi
Grandidierella bonnieroides
Gyretes iricolor
Haber speciosus
Hagenius brevistylus
Hebetancylus excentricus
Helobdella stagnalis
Helobdella triserialis
Helopelopia
Hemerodromia
Hemiptera
Heptageniidae
Hetaerina
Hetaerina titia
Heteroplectron americanum
Hexagenia
Hexagenia bilineata
Hexagenia limbata
Hexagenia munda orlando
Hexatoma
Hyalella azteca
Hydra
Hydrachna
Hydraena marginicollis
Hydraenidae

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenID ->
Hydrobiidae
Hydrodroma
Hydrophilidae
Hydroporus
Hydropsyche
Hydropsyche decalda
Hydropsychidae
Hydroptila
Hydroptilidae
Hygrobates
Hygrotus
Ischnura
Ischnura hastata
Isonychia
Isoperla
Isopoda
Isotomurus
Isotomurus tricolor
Kiefferulus
Krendowskia
Labiobaetis
Labrundinia
Labrundinia becki
Labrundinia johannseni
Labrundinia neopilosella
Labrundinia pilosella
Laevapex
Laevapex peninsulae
Larsia berneri
Larsia decolorata
Lauterborniella agrayloides
Lebertia
Lepidoptera
Leptoceridae
Leptophlebia
Leptophlebiidae
Leuctra
Libellulidae
Limnesia
Limnodrilus hoffmeisteri
Limnophila
Limonia
Liodessus
Liodessus affinis
Lioporeus
Lirceus
Littoridinops monroensis
Lumbriculidae
Lumbriculus variegatus

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenID ->

Lype diversa
Maccaffertium
Maccaffertium smithae
Macromia
Macromia taeniolata
Macromiidae
Macronychus glabratus
Macrostemum carolina
Mayatrichia
Mayatrichia ayama
Meropelopia
Mesosmittia
Metrobates
Micrasema
Micrasema rusticum
Micrasema wataga
Microcylloepus
Microcylloepus pusillus
Micromenetus
Micromenetus dilatatus
Microtendipes pedellus
Microtendipes pedellus grp.
Microtendipes rydalensis
Microtendipes rydalensis grp.
Mideopsis
Molanna
Mooreobdella
Mooreobdella tetragon
Muscidae
Naididae
Nais behningi

Nais communis
Nais communis complex

Nais pardalis
Nais simplex

Nais variabilis
Nanocladius
Nectopsyche
Nectopsyche candida
Nectopsyche exquisita
Nectopsyche pavida
Nemertea
Neoperla
Neoperla clymene
Neoporus
Neotrichia
Neumania

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenID ->

Neumania distincta

Neureclipsis

Neureclipsis crepuscularis
Neurocordulia
Neurocordulia alabamensis
Neurocordulia virginiensis
Nigronia
Nigronia fasciatus
Nigronia serricornis
Nilotanypus
Nilothauma
Notogillia wetherbyi

Nyctiophylax
Odonata
Odontomyia
Oecetis
Oecetis cinerascens
Oecetis georgia
Oecetis inconspicua cmplx.

Oecetis morsei or sphyra
Oecetis parva
Oecetis persimilis
Oecetis sp. a floyd
Oecetis sp. e floyd
Ora/scirtes
Oribatei
Orthocladiinae

Orthocladiinae gen. c epler

Orthocladiinae gen. f epler
Orthocladius annectens
Orthotrichia
Oxyethira
Pachydiplax longipennis
Pagastiella
Palaemonetes
Palaemonetes kadiakensis
Palaemonetes paludosus

Palpomyia/bezzia grp.
Paracladopelma
Paracladopelma loganae
Paracladopelma undine
Paragnetina
Paragnetina fumosa

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenID ->

Parakiefferiella

Paralauterborniella nigrohalterale
Paraleptophlebia volitans

Parametriocnemus

Parametriocnemus sp. f epler

Paranyctiophylax
Paraplea
Paraponyx
Paratanytarsus sp. a epler
Paratanytarsus sp. c epler
Paratendipes subaequalis
Pelecypoda
Pelonomus obscurus
Peltodytes
Pentaneura inconspicua
Perlesta
Perlesta placida
Perlesta placida complex
Perlinella
Petrophila
Phaenopsectra obediens grp.
Phaenopsectra punctipes grp.
Phylocentropus
Physella
Physella cubensis
Piona

Pisidiidae
Pisidium
Planariidae
Planorbella duryi
Planorbella scalaris
Planorbidae
Platyhelminthes
Plecoptera
Plumulariidae

Polycentropodidae

Polycentropus
Polypedilum
Polypedilum aviceps

Polypedilum convictum grp.
Polypedilum fallax
Polypedilum flavum

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenID ->

Polypedilum halterale grp.

Polypedilum illinoense
Polypedilum illinoense grp.

Polypedilum scalaenum
Polypedilum scalaenum grp.
Polypedilum sp. a epler
Polypedilum tritum
Pomacea paludosa
Pristina aequiseta
Pristina synclites
Pristinella jenkinae
Probezzia
Procambarus
Procladius

Procladius (holotanypus)
Procloeon viridocularis
Progomphus
Progomphus obscurus
Promoresia tardella

Prostoma rubrum
Psammoryctides convolutus

Pseudochironomus
Pseudocloeon
Psychodidae
Pycnopsyche
Pyralidae
Pyrgophorus platyrachis
Ranatra kirkaldyi
Rhagovelia
Rheocricotopus
Rheocricotopus robacki
Rheocricotopus tuberculatus
Rheotanytarsus

Rheotanytarsus distinctissimus grp.

Rheotanytarsus exiguus
Rheotanytarsus exiguus grp.
Rheotanytarsus pellucidus
Scirtes
Scirtidae

Serratella deficiens
Sialis
Silvius

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenID ->

Simuliidae
Simulium
Slavina appendiculata
Somatogyrus walkerianus
Sperchon
Sperchonopsis
Sperchopsis

Sphaeriidae

Sphaeriidae(mollusca)
Sphaeroma
Sphaeromias
Spirosperma
Spirosperma ferox
Stelechomyia perpulchra
Stempellina
Stempellina sp. a epler
Stempellinella
Stenacron
Stenacron floridense
Stenacron interpunctatum
Stenelmis
Stenelmis decorata
Stenelmis hungerfordi
Stenochironomus
Stenonema

Stenonema exiguum

Stenonema smithae
Stratiomyidae
Stylaria lacustris
Synorthocladius
Tabanus
Taeniopteryx lita
Tanytarsus
Tanytarsus sp. a epler
Tanytarsus sp. c epler
Tanytarsus sp. d epler
Tanytarsus sp. e epler
Tanytarsus sp. g epler
Tanytarsus sp. l epler
Tanytarsus sp. m epler
Tanytarsus sp. o epler
Tanytarsus sp. r epler
Tanytarsus sp. s epler
Tanytarsus sp. t epler
Tanytarsus sp. u epler
Taphromysis bowmani

As Calculated / STORET station ->
Sample date ->

Taxon Name / SampleID/BenID ->

Thienemanniella
Thienemanniella lobapodema
Thienemanniella similis

Thienemanniella sp. a epler

Thienemannimyia grp.
Tipula
Tipulidae
Torrenticola
Triaenodes
Triaenodes ignitus
Triaenodes perna
Tribelos
Tribelos atrum
Tribelos fuscicornis
Tribelos jucundum
Tricorythodes albilineatus
Tubificidae
Turbellaria
Tvetenia
Tvetenia discoloripes grp.
Unionicola
Unniella multivirga
Veliidae
Xenochironomus xenolabis
Xestochironomus
Xylotopus par
Zygoptera

SampleID	Benth_IDs	STORET	Station Nickname	Station Description	Bioregion	WBID	Latitude
3105	3980	22030062	MCBRIREF	MCBRIDE SLOUGH HWY.267 WAKULLA CO.	Panhandle East	1028	30.236111
3682	4628	19010042	CAULKREF	Calkins Ck, off Hamp Register Rd.	Northeast	2264	30.330819
3797	4802	28020221	TLGRPHREF	TELEGRAPH CREEK AT BABCOCK RANCH	Peninsula	3236A	26.748444
3952	5024	25020111	HORSEREF	Horse Creek @ SR 72 Bridge	Peninsula	1787A	27.199975
6810	7823	20010454	JUNIPREF	JUNIPER CREEK AT HIGHWAY 19	Peninsula	2905	29.213725
7183	8268	31010050	CRKREF	CROOKED CREEK HWY.270 GADSDEN CO.	Panhandle West	504	30.583275
7224	8306	33010065	RSTAREARUN	Rest Area Run Creek below I 10	Panhandle West	542	30.568167
7776	8853	20030265	CECFLD5	Sal Taylor Creek below Rowell Creek	Northeast	2327	30.199722
7778	8855	20030341	CECFLD7	Yellow Water Creek above Sal Taylor Creek	Northeast	2323	30.200889
7779	8856	20030342	CECFLD8	Yellow Water Creek below Sal Taylor Creek	Northeast	2323	30.195681
9179	10164	33010065	RSTAREARUN	Rest Area Run Creek below I 10	Panhandle West	542	30.568167
9196	10181	21030064	CEDHEADREF	Cedar Head Run, above Ichetucknee River	Panhandle East	3519	29.980611
9206	10191	20010454	JUNIPREF	JUNIPER CREEK AT HIGHWAY 19	Peninsula	2905	29.213725
9395	10288	20030341	CECFLD7	Yellow Water Creek above Sal Taylor Creek	Northeast	2323	30.200889
9396	10289	20030265	CECFLD5	Sal Taylor Creek below Rowell Creek	Northeast	2327	30.199722
9399	10292	20030342	CECFLD8	Yellow Water Creek below Sal Taylor Creek	Northeast	2323	30.195681
10131	10723	31010050	CRKREF	CROOKED CREEK HWY.270 GADSDEN CO.	Panhandle West	504	30.583275
10591	11209	19010099	PIGEONREF	Pigeon Creek at US 1 St. Marys-Nassau River	Northeast	2105	30.761314
10633	11325	32020063	LTCRKCKREF	LITTLE CROOKED CREEK S.R.79 BAY CO.	Panhandle West	907	30.413444
10785	11544	28020221	TLGRPHREF	TELEGRAPH CREEK AT BABCOCK RANCH	Peninsula	3236A	26.748444

SampleID	Benth_IDs	STORET	Station Nickname	Station Description	Bioregion	WBID	Latitude
10844	11554	20020317	SILRUNREF	SILVER RUN AT CONFLUENCE WITH BOAT RAMP CANAL	Peninsula	2772	29.209917
11464	11963	22030062	MCBRIREF	MCBRIDE SLOUGH HWY.267 WAKULLA CO.	Panhandle East	1028	30.236111
11607	12057	33040064	JACKSREFB	Jacks Branch, Forestry BMP Study Ref Site B	Panhandle West	161	30.869528
12089	12197	26011019	LVNGSTNREF	LIVINGSTON CREEK AT RUCKS DAIRY RD.	Peninsula	1685B	27.7
12092	12201	31020040	TENMILEREF	TEN MILE CREEK S.R.73 CALHOUN CO.	Panhandle West	569	30.500353
12224	12340	26011020	TIGERREF	TIGER CREEK AT WALKING WATERS RD.	Peninsula	1619	27.812092
12401	12463	20030456	THOMASREFB	Thomas Ck, Forestry BMP Study Ref Site B	Northeast	2498	29.916
12436	12486	33010054	MCDAVREF	MCDAVID CREEK AT SR 99	Panhandle West	149	30.739333
12450	12500	21010018	FALLNGREF	Falling Creek @ CR 131, above falls Suwannee R.	Northeast	3477	30.260964
12600	12548	26010972	DAVENPOREF	DAVENPORT CR AT SR 545 BRIDGE	Peninsula	3170K	28.270889
12609	12557	22020062	OKLREF	Oklawaha Ck, SR 267, S of Quincy	Panhandle West	811	30.450606
13475	12867	31020040	TENMILEREF	TEN MILE CREEK S.R.73 CALHOUN CO.	Panhandle West	569	30.500353
13535	12898	20030414	GLDHEADREF	GOLD HEAD BR. IN STATE PARK	Peninsula	2528	29.832231
14213	13118	33040064	JACKSREFB	Jacks Branch, Forestry BMP Study Ref Site B	Panhandle West	161	30.869528
14231	13136	20030456	THOMASREFB	Thomas Ck, Forestry BMP Study Ref Site B	Northeast	2498	29.916
14930	13379	20020012	OKLRIVREF	OKLAWAHA RIVER AT SR 316	Peninsula	2740C	29.373428
14965	13401	33040014	BIGHORSREF	BIG HORSE CREEK S.R.2 OKA.CO.	Panhandle West	28	30.922028
14966	13403	22020062	OKLREF	Oklawaha Ck, SR 267, S of Quincy	Panhandle West	811	30.450606
15951	14187	25020111	HORSEREF	Horse Creek @ SR 72 Bridge	Peninsula	1787A	27.199975
16636	14709	28010223	NFORLOXREF	N FK LOXAHATCHEE RIVER REF BIO STATION	Peninsula	3224A	27
16643	14716	32020063	LTCRKCKREF	LITTLE CROOKED CREEK S.R.79 BAY CO.	Panhandle West	907	30.413444

SampleID	Benth_IDs	STORET	Station Nickname	Station Description	Bioregion	WBID	Latitude
18076	15790	21010018	FALLNGREF	Falling Creek @ CR 131, above falls Suwannee R.	Northeast	3477	30.260964
18372	15965	26011020	TIGERREF	TIGER CREEK AT WALKING WATERS RD.	Peninsula	1619	27.812092
18594	16087	28010223	NFORLOXREF	N FK LOXAHATCHEE RIVER REF BIO STATION	Peninsula	3224A	27
20471	17104	20030414	GLDHEADREF	GOLD HEAD BR. IN STATE PARK	Peninsula	2528	29.832231
20474	17107	19010099	PIGEONREF	Pigeon Creek at US 1 St. Marys-Nassau River	Northeast	2105	30.761314
20479	17112	21030064	CEDHEADREF	Cedar Head Run, above Ichetucknee River	Panhandle East	3519	29.980611
20480	17113	26010972	DAVENPOREF	DAVENPORT CR AT SR 545 BRIDGE	Peninsula	3170K	28.270889
21571	17864	20020012	OKLRIVREF	OKLAWAHA RIVER AT SR 316	Peninsula	2740C	29.373428
22114	18267	22030010	STMARKSREF	St. Marks R approx 4 mi N of Hwy 98 (@ "rapids")	Panhandle East	793B	30.240222
24523	19456	33010054	MCDAVREF	MCDAVID CREEK AT SR 99	Panhandle West	149	30.739333
24524	19457	33040014	BIGHORSREF	BIG HORSE CREEK S.R.2 OKA.CO.	Panhandle West	28	30.922028
25672	19985	22030010	STMARKSREF	St. Marks R approx 4 mi N of Hwy 98 (@ "rapids")	Panhandle East	793B	30.240222
26863	20697	20020317	SILRUNREF	SILVER RUN AT CONFLUENCE WITH BOAT RAMP CANAL	Peninsula	2772	29.209917
26865	20699	26011019	LVNGSTNREF	LIVINGSTON CREEK AT RUCKS DAIRY RD.	Peninsula	1685B	27.7
26868	20702	19010042	CAULKREF	Calkins Ck, off Hamp Register Rd.	Northeast	2264	30.330819
47698	32249	BAK210GS	BAK210GS	St. Mary's River - BAK210GS	Northeast	2211	30.435664
48420	33507	32030023	ECONSCTREF	ECONFINA CREEK AT SCOTT RD	Panhandle West	553	30.555361
50131	33604	CLA254LR	CLA254LR	Black Creek - CLA254LR	Northeast	2415C	29.979571
52996	33624	CLA243LV	CLA243LV	Black Creek - CLA243LV	Northeast	2498	29.910805
52471	34244	LEV502GS	LEV502GS	Waccasassa River - LEV502GS	Peninsula	3699	29.275903
52912	34645	PUT308GS	PUT308GS	Little Orange Creek - PUT308GS	Peninsula	2713	29.541246

SampleID	Benth_IDs	STORET	Station Nickname	Station Description	Bioregion	WBID	Latitude
53274	34807	21010008	HAMIL6	ALAPAHA RIVER 1 SR 150 HAMILTON	Panhandle East	3324	30.599861
53732	35065	BAK210GS	BAK210GS	St. Mary's River - BAK210GS	Northeast	2211	30.435664
53951	35284	GLA630GS	GLA630GS	Cypress Branch - GLA630GS	Peninsula	3235G	26.813874
52834	35565	27311650820	EFM02	East Fork Manatee R. S of US62 on Duette Park. Myakka DOSSAC study	Peninsula	1811	27.521261
49652	35784	GAD104US	GAD104US	Quincy Creek At Sr267 - GAD104US	Panhandle West	1303	30.600524
53059	36666	UNI234LV	UNI234LV	Olustee Creek - UNI234LV	Northeast	3504	30.095941
49677	36688	LIB104LV	LIB104LV	Mule Creek - LIB104LV	Panhandle West	684	30.511395
57322	36904	LEV502GS	LEV502GS	Waccasassa River - LEV502GS	Peninsula	3699	29.275903
57322	36904	LEV502GS	LEV502GS	Waccasassa River - LEV502GS	Peninsula	3699	29.275903
57324	36989	3513	FLO521150	Withlacoochee River @ Stokes Ferry	Peninsula	1329C	28.988548
57324	36989	3513	FLO521150	Withlacoochee River @ Stokes Ferry	Peninsula	1329C	28.988548
57431	36987	PUT308GS	PUT308GS	Little Orange Creek - PUT308GS	Peninsula	2713	29.541246
57431	36987	PUT308GS	PUT308GS	Little Orange Creek - PUT308GS	Peninsula	2713	29.541246
59773	38075	3545	S360	S360 Blackwater River @ Hwy 4	Panhandle West	24C	30.833395
59773	38075	3545	S360	S360 Blackwater River @ Hwy 4	Panhandle West	24C	30.833395
60301	38292	21202	OR006	Orange Creek	Peninsula	2747	29.509568
60301	38292	21202	OR006	Orange Creek	Peninsula	2747	29.509568
60308	38307	3535	SUW010	SUW010 Suwannee River	Northeast	3341B	30.508115
60308	38307	3535	SUW010	SUW010 Suwannee River	Northeast	3341B	30.508115
60639	38485	3546	S365	S365 Yellow River @ Hwy 2	Panhandle West	30	30.925354
60639	38485	3546	S365	S365 Yellow River @ Hwy 2	Panhandle West	30	30.925354
60751	38544	24010002	MANAREF	Manatee R 20 m below SR64 bridge (TP1)	Peninsula	1807C	27.473372
60751	38544	24010002	MANAREF	Manatee R 20 m below SR64 bridge (TP1)	Peninsula	1807C	27.473372
62733	39186	3549	S377	S377 Escambia River @ HWY 4 Bridge	Panhandle West	10C	30.964065
62733	39186	3549	S377	S377 Escambia River @ HWY 4 Bridge	Panhandle West	10C	30.964065

SampleID	Benth_IDs	STORET	Station Nickname	Station Description	Bioregion	WBID	Latitude
63694	39707	3513	FLO521150	Withlacoochee River @ Stokes Ferry	Peninsula	1329C	28.988548
63694	39707	3513	FLO521150	Withlacoochee River @ Stokes Ferry	Peninsula	1329C	28.988548
64191	40004	3535	SUW010	SUW010 Suwannee River	Northeast	3341B	30.508115
64191	40004	3535	SUW010	SUW010 Suwannee River	Northeast	3341B	30.508115
64546	40384	23010464	WITHREF	Withlacoochee R @ county park off Auton Rd (TP3)	Peninsula	1329F	28.3
64546	40384	23010464	WITHREF	Withlacoochee R @ county park off Auton Rd (TP3)	Peninsula	1329F	28.3
65025	40260	LIB104LV	LIB104LV	Mule Creek - LIB104LV	Panhandle West	684	30.511395
65025	40260	LIB104LV	LIB104LV	Mule Creek - LIB104LV	Panhandle West	684	30.511395
65026	40261	22020093	FLRQUINREF	Quincy Creek above SR267 bridge	Panhandle West	1303	30.599722
65026	40261	22020093	FLRQUINREF	Quincy Creek above SR267 bridge	Panhandle West	1303	30.599722
65028	40263	GAD106GS	GAD106GS	Yon Creek - GAD106GS	Panhandle West	626	30.534545
65028	40263	GAD106GS	GAD106GS	Yon Creek - GAD106GS	Panhandle West	626	30.534545
65029	40264	NUTREF001	TELOG1641	Telogia Creek at CR 1641	Panhandle West	1300	30.450144
65029	40264	NUTREF001	TELOG1641	Telogia Creek at CR 1641	Panhandle West	1300	30.450144
65250	40368	CLA246GS	CLA246GS	Peters Creek - CLA246GS	Northeast	2444	30.007483
65250	40368	CLA246GS	CLA246GS	Peters Creek - CLA246GS	Northeast	2444	30.007483
65291	40343	3545	S360	S360 Blackwater River @ Hwy 4	Panhandle West	24C	30.833395
65291	40343	3545	S360	S360 Blackwater River @ Hwy 4	Panhandle West	24C	30.833395
65292	40344	32030023	ECONSCTREF	ECONFINA CREEK AT SCOTT RD	Panhandle West	553	30.555361
65292	40344	32030023	ECONSCTREF	ECONFINA CREEK AT SCOTT RD	Panhandle West	553	30.555361
65293	40345	21010008	HAMIL6	ALAPAHA RIVER 1 SR 150 HAMILTON	Panhandle East	3324	30.599861
65293	40345	21010008	HAMIL6	ALAPAHA RIVER 1 SR 150 HAMILTON	Panhandle East	3324	30.599861
65296	40348	3546	S365	S365 Yellow River @ Hwy 2	Panhandle West	30	30.925354
65296	40348	3546	S365	S365 Yellow River @ Hwy 2	Panhandle West	30	30.925354
65306	40406	BAK208GS	BAK208GS	St. Mary's River - BAK208GS	Northeast	2097K	30.517903

SampleID	Benth_IDs	STORET	Station Nickname	Station Description	Bioregion	WBID	Latitude
65306	40406	BAK208GS	BAK208GS	St. Mary's River - BAK208GS	Northeast	2097K	30.517903
65316	40349	3549	S377	S377 Escambia River @ HWY 4 Bridge	Panhandle West	10C	30.964065
65316	40349	3549	S377	S377 Escambia River @ HWY 4 Bridge	Panhandle West	10C	30.964065
65379	40364	22050083	STEINCANAL	Steinhatchee @ Canal Road	Panhandle East	3573A	29.828806
65379	40364	22050083	STEINCANAL	Steinhatchee @ Canal Road	Panhandle East	3573A	29.828806
65382	40367	22050040	LAFAY1	STEINHATCHEE RIVER I SR357	Panhandle East	3573B	29.890278
65382	40367	22050040	LAFAY1	STEINHATCHEE RIVER I SR357	Panhandle East	3573B	29.890278
65414	40405	WAK158LR	WAK158LR	Sopchoppy River - WAK158LR	Panhandle West	998	30.130119
65414	40405	WAK158LR	WAK158LR	Sopchoppy River - WAK158LR	Panhandle West	998	30.130119
65567	40448	23010464	WITHREF	Withlacoochee R @ county park off Auton Rd (TP3)	Peninsula	1329F	28.3
65567	40448	23010464	WITHREF	Withlacoochee R @ county park off Auton Rd (TP3)	Peninsula	1329F	28.3
65636	40430	CLA246GS	CLA246GS	Peters Creek - CLA246GS	Northeast	2444	30.007483
65636	40430	CLA246GS	CLA246GS	Peters Creek - CLA246GS	Northeast	2444	30.007483
65637	40431	UNI234LV	UNI234LV	Olustee Creek - UNI234LV	Northeast	3504	30.095941
65637	40431	UNI234LV	UNI234LV	Olustee Creek - UNI234LV	Northeast	3504	30.095941
65715	40524	WAK158LR	WAK158LR	Sopchoppy River - WAK158LR	Panhandle West	998	30.130119
65715	40524	WAK158LR	WAK158LR	Sopchoppy River - WAK158LR	Panhandle West	998	30.130119
65731	40476	19010006	STMAR2REF	ST MARYS RIVER AT SR #2	Northeast	2097K	30.51785
65731	40476	19010006	STMAR2REF	ST MARYS RIVER AT SR #2	Northeast	2097K	30.51785
65736	40479	CLA254LR	CLA254LR	Black Creek - CLA254LR	Northeast	2415C	29.979571
65736	40479	CLA254LR	CLA254LR	Black Creek - CLA254LR	Northeast	2415C	29.979571
65737	40481	CLA243LV	CLA243LV	Black Creek - CLA243LV	Northeast	2498	29.910805
65737	40481	CLA243LV	CLA243LV	Black Creek - CLA243LV	Northeast	2498	29.910805
65739	40534	NUTREF001	TELOG1641	Telogia Creek at CR 1641	Panhandle West	1300	30.450144
65739	40534	NUTREF001	TELOG1641	Telogia Creek at CR 1641	Panhandle West	1300	30.450144

SampleID	Benth_IDs	STORET	Station Nickname	Station Description	Bioregion	WBID	Latitude
65741	40537	GAD106GS	GAD106GS	Yon Creek - GAD106GS	Panhandle West	626	30.534545
65741	40537	GAD106GS	GAD106GS	Yon Creek - GAD106GS	Panhandle West	626	30.534545
65891	40544	GLA630GS	GLA630GS	Cypress Branch - GLA630GS	Peninsula	3235G	26.813874
65891	40544	GLA630GS	GLA630GS	Cypress Branch - GLA630GS	Peninsula	3235G	26.813874
65900	40550	24010002	MANAREF	Manatee R 20 m below SR64 bridge (TP1)	Peninsula	1807C	27.473372
65900	40550	24010002	MANAREF	Manatee R 20 m below SR64 bridge (TP1)	Peninsula	1807C	27.473372
65907	40552	27311650820	EFM02	East Fork Manatee R. S of US62 on Duette Park. Myakka DOSSAC study	Peninsula	1811	27.521261
65907	40552	27311650820	EFM02	East Fork Manatee R. S of US62 on Duette Park. Myakka DOSSAC study	Peninsula	1811	27.521261
65931	40577	22050083	STEINCANAL	Steinhatchee @ Canal Road	Panhandle East	3573A	29.828806
65931	40577	22050083	STEINCANAL	Steinhatchee @ Canal Road	Panhandle East	3573A	29.828806
65932	40564	22050040	LAFAY1	STEINHATCHEE RIVER I SR357	Panhandle East	3573B	29.890278
65932	40564	22050040	LAFAY1	STEINHATCHEE RIVER I SR357	Panhandle East	3573B	29.890278
66028	40571	21202	OR006	Orange Creek	Peninsula	2747	29.509568
66028	40571	21202	OR006	Orange Creek	Peninsula	2747	29.509568

SampleID	Benth_IDs	Longitude	Sample Date	Nreps	Gear	Amphipod Pct	ChironPct	Chiron Taxa	Clinger Taxa	Coleoptera Pct
3105	3980	-84.272222	3/21/1994	1	D-FrameX20	6.52	51.45	17	7	3.62
3682	4628	-82.241797	11/1/1994	1	D-FrameX20	3.7	29.63	14	7	13.89
3797	4802	-81.670333	7/27/1994	1	D-FrameX20	0	16.44	8	4	25.34
3952	5024	-81.987578	10/24/1994	1	D-FrameX20	0.68	29.25	9	5	12.93
6810	7823	-81.654861	1/31/1995	1	D-FrameX20	15.45	23.64	12	4	0
7183	8268	-84.880969	2/13/1995	1	D-FrameX20	0	50	15	10	4.63
7224	8306	-87.402944	7/12/1995	1	D-FrameX20	1.77	24.78	14	12	17.7
7776	8853	-81.913889	10/2/1995	1	D-FrameX20	0	58.22	12	3	1.37
7778	8855	-81.919542	10/2/1995	1	D-FrameX20	0	31.29	17	5	2.04
7779	8856	-81.918278	10/2/1995	1	D-FrameX20	0	44.66	13	5	4.85
9179	10164	-87.402944	2/14/1996	1	D-FrameX20	0	30.61	14	6	3.4
9196	10181	-82.758589	2/6/1996	1	D-FrameX20	23.15	34.26	12	1	0
9206	10191	-81.654861	3/4/1996	1	D-FrameX20	21.92	15.75	8	6	4.11
9395	10288	-81.919542	3/5/1996	1	D-FrameX20	0	11.21	7	5	13.08
9396	10289	-81.913889	3/5/1996	1	D-FrameX20	1.45	19.57	8	6	7.25
9399	10292	-81.918278	3/5/1996	1	D-FrameX20	7.23	32.53	19	7	6.02
10131	10723	-84.880969	7/9/1996	1	D-FrameX20	0	35.76	20	12	7.28
10591	11209	-81.967519	7/9/1996	1	D-FrameX20	3.82	22.29	12	4	9.55
10633	11325	-85.868472	7/16/1996	1	D-FrameX20	3.92	16.99	14	11	10.46
10785	11544	-81.670333	9/16/1996	1	D-FrameX20	0	19.63	9	8	38.32

SampleID	Benth_IDs	Longitude	Sample Date	Nreps	Gear	Amphipod Pct	ChironPct	Chiron Taxa	Clinger Taxa	Coleoptera Pct
10844	11554	-81.993333	9/16/1996	1	D-FrameX20	10.24	33.13	13	7	0
11464	11963	-84.272222	2/11/1997	1	D-FrameX20	6.12	34.69	15	7	0.68
11607	12057	-86.489361	2/25/1997	1	D-FrameX20	0.71	49.29	18	5	5
12089	12197	-81.4	2/18/1997	1	D-FrameX20	17.31	42.31	19	3	10.9
12092	12201	-85.200531	2/4/1997	1	D-FrameX20	0	20.77	11	8	4.62
12224	12340	-81.444064	2/18/1997	1	D-FrameX20	9.91	24.32	7	7	17.12
12401	12463	-81.862472	7/2/1997	1	D-FrameX20	0.85	30.51	17	7	4.24
12436	12486	-87.448556	8/12/1997	1	D-FrameX20	0	35.43	16	11	32.28
12450	12500	-82.668108	7/17/1997	1	D-FrameX20	3.17	39.68	11	10	7.14
12600	12548	-81.591128	9/30/1997	1	D-FrameX20	4.55	28.18	14	4	11.82
12609	12557	-84.643581	8/12/1997	1	D-FrameX20	0	40	14	5	10.48
13475	12867	-85.200531	2/10/1998	1	D-FrameX20	0	16.31	11	7	4.96
13535	12898	-81.946289	3/10/1998	1	D-FrameX20	0.83	52.89	19	9	4.13
14213	13118	-86.489361	7/1/1998	1	D-FrameX20	1.16	51.45	16	7	1.73
14231	13136	-81.862472	2/12/1998	1	D-FrameX20	1.56	17.19	11	10	8.59
14930	13379	-81.901764	8/11/1998	1	D-FrameX20	4.64	8.61	9	10	5.3
14965	13401	-86.595167	7/15/1998	1	D-FrameX20	0	19.08	18	16	15.61
14966	13403	-84.643581	9/9/1998	1	D-FrameX20	1	42	14	7	12
15951	14187	-81.987578	2/17/1999	1	D-FrameX20	0	29.09	9	6	26.36
16636	14709	-80.1	3/22/1999	1	D-FrameX20	15.82	26.58	7	1	10.13
16643	14716	-85.868472	1/21/1999	1	D-FrameX20	3	20	10	12	2

SampleID	Benth_IDs	Longitude	Sample Date	Nreps	Gear	Amphipod Pct	ChironPct	Chiron Taxa	Clinger Taxa	Coleoptera Pct
18076	15790	-82.668108	7/27/1999	1	D-FrameX20	0.76	25	8	3	7.58
18372	15965	-81.444064	7/20/1999	1	D-FrameX20	19.88	13.04	7	7	19.88
18594	16087	-80.1	10/7/1999	1	D-FrameX20	3.23	43.55	12	4	7.26
20471	17104	-81.946289	1/12/2000	1	D-FrameX20	0	37.84	14	12	1.8
20474	17107	-81.967519	2/1/2000	1	D-FrameX20	13.51	28.83	10	6	8.11
20479	17112	-82.758589	3/15/2000	1	D-FrameX20	6.31	60.36	17	3	1.8
20480	17113	-81.591128	1/10/2000	1	D-FrameX20	5.99	32.93	9	7	9.58
21571	17864	-81.901764	2/15/2000	1	D-FrameX20	20.44	36.5	10	6	5.84
22114	18267	-84.145389	8/22/2000	1	D-FrameX20	7.41	31.48	17	3	4.63
24523	19456	-87.448556	2/22/2001	1	D-FrameX20	0.87	19.13	12	11	22.61
24524	19457	-86.595167	2/8/2001	1	D-FrameX20	0	28.38	13	10	8.78
25672	19985	-84.145389	9/18/2001	1	D-FrameX20	11	16	4	2	12
26863	20697	-81.993333	9/4/2001	1	D-FrameX20	11.27	35.91	9	4	1.41
26865	20699	-81.4	9/5/2001	1	D-FrameX20	1.69	26.27	11	5	20.34
26868	20702	-82.241797	7/10/2001	1	D-FrameX20	3.51	18.42	10	4	7.02
47698	32249	-82.287764	11/1/2005	1	D-FrameX20	0	25.47	5	6	6.6
48420	33507	-85.435	2/15/2006	1	D-FrameX20	0	40.2	15	12	6.86
50131	33604	-81.852289	11/14/2005	1	D-FrameX20	4.76	42.86	9	8	24.76
52996	33624	-81.884868	11/14/2005	1	D-FrameX20	0.94	51.89	15	7	3.77
52471	34244	-82.736663	12/6/2005	1	D-FrameX20	1.96	16.67	6	7	10.78
52912	34645	-81.953277	12/13/2005	1	D-FrameX20	1.82	21.82	9	9	20

SampleID	Benth_IDs	Longitude	Sample Date	Nreps	Gear	Amphipod Pct	ChironPct	Chiron Taxa	Clinger Taxa	Coleoptera Pct
53274	34807	-83.073417	4/24/2006	1	D-FrameX20	0	50	13	7	23
53732	35065	-82.287764	3/20/2006	1	D-FrameX20	0.91	25.45	7	6	0.91
53951	35284	-81.335414	1/23/2006	1	D-FrameX20	4.55	25.45	8	1	30
52834	35565	-82.137561	6/21/2006	1	D-FrameX20	0	29.52	10	3	33.33
49652	35784	-84.580759	11/14/2005	1	D-FrameX20	0	25.23	4	6	7.48
53059	36666	-82.472863	11/15/2005	1	D-FrameX20	2	24	7	4	30
49677	36688	-84.827906	11/21/2005	1	D-FrameX20	0	22.43	6	7	15.89
57322	36904	-82.736663	2/21/2007	1	D-FrameX20	0	13.38	3	6	4.46
57322	36904	-82.736663	2/21/2007	2	D-FrameX20	0	8.81	5	7	7.55
57324	36989	-82.349844	2/20/2007	1	D-FrameX20	2.03	38.51	14	5	6.08
57324	36989	-82.349844	2/20/2007	2	D-FrameX20	3.95	42.76	17	6	3.29
57431	36987	-81.953277	2/26/2007	1	D-FrameX20	0	34.25	12	7	10.96
57431	36987	-81.953277	2/26/2007	2	D-FrameX20	0	31.33	7	7	20
59773	38075	-86.733732	3/26/2007	1	D-FrameX20	0	44.94	14	7	10.76
59773	38075	-86.733732	3/26/2007	2	D-FrameX20	0	49.66	11	6	10.34
60301	38292	-81.94617	3/1/2007	1	D-FrameX20	4.76	51.02	19	6	7.48
60301	38292	-81.94617	3/1/2007	2	D-FrameX20	2.1	48.25	15	5	6.99
60308	38307	-82.716569	10/10/2006	1	D-FrameX20	0	81.38	11	6	4.14
60308	38307	-82.716569	10/10/2006	2	D-FrameX20	0	85.82	11	5	0
60639	38485	-86.559172	5/15/2007	1	D-FrameX20	2.08	17.36	13	4	4.86
60639	38485	-86.559172	5/15/2007	2	D-FrameX20	1.4	18.88	9	7	6.99
60751	38544	-82.210967	5/16/2007	1	D-FrameX20	0	53.85	13	7	11.89
60751	38544	-82.210967	5/16/2007	2	D-FrameX20	0	49.06	11	8	14.47
62733	39186	-87.235993	9/19/2007	1	D-FrameX20	0	51.95	14	5	1.3
62733	39186	-87.235993	9/19/2007	2	D-FrameX20	0	44.59	11	5	5.1

SampleID	Benth_IDs	Longitude	Sample Date	Nreps	Gear	Amphipod Pct	ChironPct	Chiron Taxa	Clinger Taxa	Coleoptera Pct
63694	39707	-82.349844	11/7/2007	1	D-FrameX20	33.75	39.38	17	0	0
63694	39707	-82.349844	11/7/2007	2	D-FrameX20	22.08	47.4	17	0	0
64191	40004	-82.716569	12/12/2007	1	D-FrameX20	0	51.25	7	5	0.63
64191	40004	-82.716569	12/12/2007	2	D-FrameX20	0	61.39	7	6	0.63
64546	40384	-82.1	5/7/2008	1	D-FrameX20	35.66	6.99	7	4	0
64546	40384	-82.1	5/7/2008	2	D-FrameX20	45.03	10.6	6	3	1.32
65025	40260	-84.827906	6/10/2008	1	D-FrameX20	0	40.82	11	5	17.01
65025	40260	-84.827906	6/10/2008	2	D-FrameX20	0	42.07	17	7	22.07
65026	40261	-84.581917	6/13/2008	1	D-FrameX20	0	43.84	14	8	9.59
65026	40261	-84.581917	6/13/2008	2	D-FrameX20	0.7	36.36	8	6	10.49
65028	40263	-84.771164	6/13/2008	1	D-FrameX20	0	19.86	12	11	4.96
65028	40263	-84.771164	6/13/2008	2	D-FrameX20	0	15.49	7	13	10.56
65029	40264	-84.861232	6/10/2008	1	D-FrameX20	0	23.84	14	9	21.19
65029	40264	-84.861232	6/10/2008	2	D-FrameX20	0	11.56	8	7	27.21
65250	40368	-81.748227	5/28/2008	1	D-FrameX20	0	47.71	20	11	9.15
65250	40368	-81.748227	5/28/2008	2	D-FrameX20	0	40.71	19	9	8.57
65291	40343	-86.733732	7/9/2008	1	D-FrameX20	0	20.55	11	9	9.59
65291	40343	-86.733732	7/9/2008	2	D-FrameX20	2.68	20.13	10	9	6.71
65292	40344	-85.435	7/24/2008	1	D-FrameX20	0	31.91	11	11	24.11
65292	40344	-85.435	7/24/2008	2	D-FrameX20	0	34.72	16	10	11.11
65293	40345	-83.073417	7/16/2008	1	D-FrameX20	0	26.95	10	7	4.26
65293	40345	-83.073417	7/16/2008	2	D-FrameX20	0.63	21.25	11	8	4.38
65296	40348	-86.559172	7/9/2008	1	D-FrameX20	0	34.23	20	10	8.05
65296	40348	-86.559172	7/9/2008	2	D-FrameX20	0	38.3	20	10	12.06
65306	40406	-82.23048	6/18/2008	1	D-FrameX20	0	32.03	11	3	22.88

SampleID	Benth_IDs	Longitude	Sample Date	Nreps	Gear	Amphipod Pct	ChironPct	Chiron Taxa	Clinger Taxa	Coleoptera Pct
65306	40406	-82.23048	6/18/2008	2	D-FrameX20	0	34.21	11	3	18.42
65316	40349	-87.235993	7/10/2008	1	D-FrameX20	0	9.29	6	9	2.14
65316	40349	-87.235993	7/10/2008	2	D-FrameX20	0	21.05	8	7	1.32
65379	40364	-83.308472	8/12/2008	1	D-FrameX20	1.94	10.97	10	5	9.68
65379	40364	-83.308472	8/12/2008	2	D-FrameX20	2.61	10.46	10	4	8.5
65382	40367	-83.252778	8/12/2008	1	D-FrameX20	0	7.5	7	1	20
65382	40367	-83.252778	8/12/2008	2	D-FrameX20	0	8.51	7	0	23.4
65414	40405	-84.493937	6/19/2008	1	D-FrameX20	0	21.53	11	4	9.03
65414	40405	-84.493937	6/19/2008	2	D-FrameX20	0.71	27.66	12	4	11.35
65567	40448	-82.1	10/8/2008	1	D-FrameX20	14.97	36.05	8	1	6.12
65567	40448	-82.1	10/8/2008	2	D-FrameX20	12.14	35.71	8	2	4.29
65636	40430	-81.748227	10/28/2008	1	D-FrameX20	0	56.21	14	6	5.23
65636	40430	-81.748227	10/28/2008	2	D-FrameX20	1.38	44.83	14	6	11.03
65637	40431	-82.472863	10/16/2008	1	D-FrameX20	0.63	21.38	9	5	5.03
65637	40431	-82.472863	10/16/2008	2	D-FrameX20	2.13	21.99	7	3	0.71
65715	40524	-84.493937	11/13/2008	1	D-FrameX20	0	28.03	14	5	12.1
65715	40524	-84.493937	11/13/2008	2	D-FrameX20	1.35	24.32	15	7	12.84
65731	40476	-82.230314	11/12/2008	1	D-FrameX20	0.63	30.63	11	10	9.38
65731	40476	-82.230314	11/12/2008	2	D-FrameX20	0.65	21.43	13	11	3.9
65736	40479	-81.852289	11/6/2008	1	D-FrameX20	0	25.17	12	10	25.17
65736	40479	-81.852289	11/6/2008	2	D-FrameX20	0	30.71	11	10	16.43
65737	40481	-81.884868	11/6/2008	1	D-FrameX20	3.29	26.32	7	7	13.82
65737	40481	-81.884868	11/6/2008	2	D-FrameX20	5.3	25.17	9	11	18.54
65739	40534	-84.861232	11/20/2008	1	D-FrameX20	0	6.85	4	6	6.85
65739	40534	-84.861232	11/20/2008	2	D-FrameX20	0	7.53	5	8	9.59

SampleID	Benth_IDs	Longitude	Sample Date	Nreps	Gear	Amphipod Pct	ChironPct	Chiron Taxa	Clinger Taxa	Coleoptera Pct
65741	40537	-84.771164	11/20/2008	1	D-FrameX20	0	17.01	8	9	8.84
65741	40537	-84.771164	11/20/2008	2	D-FrameX20	0	18.49	11	7	10.27
65891	40544	-81.335414	12/16/2008	1	D-FrameX20	0	33.12	7	6	18.18
65891	40544	-81.335414	12/16/2008	2	D-FrameX20	1.27	33.12	5	5	14.65
65900	40550	-82.210967	12/17/2008	1	D-FrameX20	0	49.66	7	7	6.71
65900	40550	-82.210967	12/17/2008	2	D-FrameX20	0	50.64	7	7	6.41
65907	40552	-82.137561	12/17/2008	1	D-FrameX20	0.66	44.74	9	4	31.58
65907	40552	-82.137561	12/17/2008	2	D-FrameX20	0.66	44.37	12	6	32.45
65931	40577	-83.308472	1/14/2009	1	D-FrameX20	6.25	45	15	6	9.38
65931	40577	-83.308472	1/14/2009	2	D-FrameX20	9.15	41.83	10	8	9.8
65932	40564	-83.252778	1/14/2009	1	D-FrameX20	0	53.21	14	4	8.97
65932	40564	-83.252778	1/14/2009	2	D-FrameX20	0	33.78	12	3	12.16
66028	40571	-81.94617	5/1/2008	1	D-FrameX20	0	15.6	10	5	31.91
66028	40571	-81.94617	5/1/2008	2	D-FrameX20	0	13.89	9	5	33.33

SampleID	Benth_IDs	Decapoda Pct	Diptera Pct	Dominant Pct	DominantPct Word	Ephem Pct	EphemTaxa	EPTTaxa	FFBrowGrazPct	FFEpiColDepPct
3105	3980	1.45	52.17	17.39	Polypedilum illinoense grp.	5.8	3	8	2.17	25.72
3682	4628	0	37.04	11.11	Microcylloepus pusillus	12.96	4	10	0	27.78
3797	4802	0.68	18.49	9.59	Dubiraphia quadrinotata	19.18	4	10	0	36.3
3952	5024	3.4	30.61	21.77	Polypedilum flavum	15.65	3	8	1.7	29.59
6810	7823	4.55	29.09	14.55	Limnodrilus hoffmeisteri	3.64	2	5	3.18	25
7183	8268	0.93	55.56	19.44	Rheotanytarsus exiguus grp.	0	0	8	0	19.44
7224	8306	0.88	28.32	12.39	Stenelmis	7.96	3	13	0	26.99
7776	8853	0	62.33	41.1	Polypedilum illinoense grp.	6.16	2	3	0	37.33
7778	8855	1.36	46.26	13.61	Palpomyia/bezzia grp.	4.08	3	6	0	28.57
7779	8856	0	46.6	23.3	Sphaeriidae(mollusca)	0	0	3	0	26.7
9179	10164	1.36	79.59	47.62	Simulium	6.12	2	4	0.34	17.35
9196	10181	3.7	39.81	16.67	Polypedilum illinoense grp.	1.85	1	4	6.48	29.63
9206	10191	0.68	20.55	12.33	Hydroptila	11.64	2	9	6.85	25.68
9395	10288	2.8	25.23	12.15	Bivalvia	27.1	6	9	0.93	35.98
9396	10289	0	22.46	28.26	Sphaeriidae(mollusca)	19.57	4	7	0.72	23.55
9399	10292	0.6	34.94	16.87	Sphaeriidae(mollusca)	2.41	3	5	0.9	27.41
10131	10723	1.32	39.74	11.26	Cheumatopsyche	8.61	7	15	0	24.5
10591	11209	0	24.2	14.01	Ancylidae	0	0	3	0	21.02
10633	11325	0.65	26.14	15.69	Chimarra	8.5	2	9	0	21.9
10785	11544	0.93	28.04	17.76	Microcylloepus pusillus	14.02	6	10	0.47	37.38

SampleID	Benth_IDs	Decapoda Pct	Diptera Pct	Dominant Pct	DominantPct Word	Ephem Pct	EphemTaxa	EPTTaxa	FFBrowGrazPct	FFEpiColDepPct
10844	11554	1.81	36.75	15.06	Hydropsyche	4.82	3	8	2.41	27.11
11464	11963	0	38.1	19.05	Cheumatopsyche	4.76	2	10	0	24.15
11607	12057	0	54.29	21.43	Enchytraeidae	8.57	4	9	0.36	32.5
12089	12197	0	42.95	17.31	Hyalella azteca	1.92	1	5	0	38.14
12092	12201	1.54	26.15	16.15	Perlesta	18.46	3	10	0	37.31
12224	12340	0	32.43	12.61	Microcylloepus pusillus	2.7	2	8	0	26.13
12401	12463	1.69	46.61	16.95	Leuctra	8.47	5	9	0.42	24.15
12436	12486	0	40.16	14.96	Stenelmis decorata	1.57	2	10	0	33.07
12450	12500	0	45.24	26.19	Cheumatopsyche	0.79	1	8	0	30.56
12600	12548	0	40.91	9.09	Microcylloepus pusillus	6.36	3	6	0	26.82
12609	12557	0	46.67	30.48	Enchytraeidae	2.86	2	5	0	13.33
13475	12867	6.38	60.99	42.55	Simulium	2.84	2	5	0	9.57
13535	12898	0.83	63.64	14.88	Orthocladius annectens	3.31	1	10	0	30.58
14213	13118	0	52.6	22.54	Leuctra	3.47	2	11	0.58	16.18
14231	13136	0.78	42.97	13.28	Simulium	11.72	2	10	0	21.48
14930	13379	0	25.83	14.57	Simulium	17.88	4	11	0.99	21.52
14965	13401	1.16	30.64	20.23	Cheumatopsyche	4.62	5	16	0	19.94
14966	13403	5	44	11	Enchytraeidae/Stenochironomus	10	4	10	0.5	31
15951	14187	0	31.82	13.64	Dubiraphia vittata	9.09	5	11	0	34.55
16636	14709	4.43	31.65	15.82	Hyalella azteca	15.82	2	2	2.22	32.59
16643	14716	1	44	18	Simulium	13	4	12	0	24.5

SampleID	Benth_IDs	Decapoda Pct	Diptera Pct	Dominant Pct	DominantPct Word	Ephem Pct	EphemTaxa	EPTTaxa	FFBrowGrazPct	FFEpiColDepPct
18076	15790	0	25.76	28.79	Planorbidae	18.18	4	6	0	23.86
18372	15965	0	16.15	19.88	Hyalella azteca	6.21	3	8	0	31.68
18594	16087	0.81	56.45	13.71	Polypedilum illinoense grp.	25	3	3	0.4	32.26
20471	17104	0	41.44	9.91	Tanytarsus sp. a epler	13.51	3	14	0	21.62
20474	17107	0	29.73	13.51	Hyalella azteca	16.22	5	6	0	31.98
20479	17112	0.9	66.67	13.51	Paratanytarsus sp. c epler	0.9	1	6	1.8	30.18
20480	17113	0.6	43.11	19.16	Polypedilum flavum	9.58	5	10	0	29.34
21571	17864	2.92	43.07	20.44	Hyalella azteca	10.22	3	7	1.46	35.04
22114	18267	1.85	37.96	9.26	Tricorythodes albilineatus	17.59	4	7	1.39	39.81
24523	19456	1.74	27.83	12.17	Eurylophella doris	20	4	12	0.43	38.7
24524	19457	0	38.51	17.57	Cheumatopsyche	10.81	4	12	0	24.32
25672	19985	6	16	11	Hyalella azteca/Polypedilum illinoense grp.	11	3	5	1	30.5
26863	20697	0.7	35.92	24.65	Cheumatopsyche	8.45	3	7	2.82	29.23
26865	20699	0	26.27	14.41	Caenis	20.34	4	8	0	32.2
26868	20702	0	41.23	22.81	Simulium	0	0	1	0	14.04
47698	32249	0	28.3	38.68	Maccaffertium smithae	38.68	1	4	0	30.66
48420	33507	0	57.84	15.69	Simulium	13.73	5	12	0	39.22
50131	33604	0	43.81	27.62	Polypedilum flavum	4.76	3	8	0	35.71
52996	33624	0	53.77	17.92	Rheotanytarsus exiguus grp.	16.98	3	5	0	30.19
52471	34244	0	25.49	17.65	Lirceus	17.65	6	10	8.82	22.55
52912	34645	0	29.09	10.91	Microcylloepus pusillus	14.55	3	6	0.91	24.09

SampleID	Benth_IDs	Decapoda Pct	Diptera Pct	Dominant Pct	DominantPct Word	Ephem Pct	EphemTaxa	EPTTaxa	FFBrowGrazPct	FFEpiColDepPct
53274	34807	0	50	23	Stenelmis	10	4	8	0	34
53732	35065	0	76.36	50	Simulium	2.73	1	4	0	6.82
53951	35284	0	25.45	28.18	Caenis diminuta	28.18	1	3	0.45	45.45
52834	35565	0	30.48	17.14	Dubiraphia vittata	1.9	2	5	0	32.38
49652	35784	0	48.6	21.5	Simulium	26.17	3	5	0	25.7
53059	36666	0	24	18	Argia tibialis	4	1	4	0	23.5
49677	36688	0	32.71	14.02	Stenochironomus	27.1	3	9	0	38.79
57322	36904	0	57.32	43.31	Simulium	13.38	4	6	4.78	15.92
57322	36904	0	50.31	41.51	Simulium	11.95	5	10	4.4	14.15
57324	36989	0	39.19	20.95	Tricorythodes albilineatus	25	5	10	0	47.64
57324	36989	1.32	44.74	27.63	Tricorythodes albilineatus	32.24	2	7	0.33	54.61
57431	36987	0	50.68	21.23	Cheumatopsyche	8.22	4	7	0	25
57431	36987	0	43.33	20.67	Polypedilum flavum	8.67	3	8	0	28
59773	38075	0	52.53	18.99	Pseudochironomus	10.13	4	9	0	39.87
59773	38075	0	57.24	25.52	Pseudochironomus	3.45	3	9	0	42.07
60301	38292	0	52.38	14.29	Polypedilum flavum	12.24	6	10	0	38.78
60301	38292	0	51.05	9.79	Polypedilum illinoense grp./Micromenetus	9.79	4	6	0	29.37
60308	38307	0	81.38	26.9	Tvetenia vitracies	5.52	3	8	0	26.9
60308	38307	0	89.36	38.3	Tvetenia vitracies	2.13	2	6	0	25.18
60639	38485	0	18.75	21.53	Tricorythodes albilineatus	34.72	5	8	0	46.18
60639	38485	1.4	19.58	18.88	Tricorythodes albilineatus	37.76	5	9	0	46.5
60751	38544	0	53.85	25.17	Rheotanytarsus	6.29	3	8	0.35	23.78
60751	38544	0	49.69	20.75	Rheotanytarsus	6.29	5	10	1.26	25.16
62733	39186	0	53.25	16.23	Dicrotendipes neomodestus	21.43	5	10	0	44.48
62733	39186	0	45.86	16.56	Caenis eglinensis	29.3	5	10	0	49.68

SampleID	Benth_IDs	Decapoda Pct	Diptera Pct	Dominant Pct	DominantPct Word	Ephem Pct	EphemTaxa	EPTTaxa	FFBrowGrazPct	FFEpiColDepPct
63694	39707	0	43.13	33.75	Hyalella azteca	12.5	4	5	0	55
63694	39707	0.65	51.3	22.08	Hyalella azteca	11.04	4	5	0.32	49.35
64191	40004	0	55.63	37.5	Hydropsyche	0	0	3	0	28.13
64191	40004	0	68.99	30.38	Tvetenia vitracies	0	0	4	0	26.9
64546	40384	2.1	7.69	35.66	Hyalella azteca	35.66	4	7	0.35	39.16
64546	40384	0.66	11.92	45.03	Hyalella azteca	24.5	2	4	0.33	36.42
65025	40260	0.68	41.5	19.73	Leuctra	6.8	4	11	0	27.89
65025	40260	3.45	44.14	16.55	Leuctra	6.21	3	9	0	32.07
65026	40261	0.68	44.52	24.66	Ancylidae	7.53	2	4	0	21.92
65026	40261	0	38.46	23.08	Ancylidae	5.59	2	4	0	21.68
65028	40263	0.71	36.17	9.22	Maccaffertium	13.48	5	17	0	24.11
65028	40263	0	30.99	10.56	Maccaffertium	12.68	2	12	0	22.89
65029	40264	0	25.83	17.88	Stenelmis	15.89	6	15	0.99	27.15
65029	40264	0.68	14.29	18.37	Stenelmis	21.09	5	13	0.34	28.91
65250	40368	0	50.98	27.45	Polypedilum flavum	3.27	3	11	0	27.78
65250	40368	0.71	44.29	16.43	Polypedilum flavum	5	3	11	0	25.36
65291	40343	1.37	20.55	21.92	Hydroptila	13.7	5	16	4.79	17.12
65291	40343	1.34	22.82	25.5	Hydroptila	18.12	6	15	5.03	20.13
65292	40344	2.13	35.46	9.93	Rheotanytarsus exiguus grp.	7.09	4	13	0	23.4
65292	40344	3.47	39.58	9.03	Polypedilum flavum	4.86	4	13	0	23.26
65293	40345	0	31.91	26.24	Hydropsyche	6.38	3	9	0.35	19.15
65293	40345	0	22.5	33.75	Hydropsyche	7.5	4	8	1.25	17.19
65296	40348	0	40.94	11.41	Polypedilum flavum	22.15	9	14	0	31.88
65296	40348	1.42	46.81	16.31	Polypedilum flavum	14.89	7	14	0	31.21
65306	40406	0	32.68	22.22	Oecetis georgia	1.96	1	4	0	22.88

SampleID	Benth_IDs	Decapoda Pct	Diptera Pct	Dominant Pct	DominantPct Word	Ephem Pct	EphemTaxa	EPTTaxa	FFBrowGrazPct	FFEpiColDepPct
65306	40406	0	36.18	23.03	Oecetis georgia	1.32	1	5	0	18.09
65316	40349	0	11.43	62.14	Hydropsyche incommoda	6.43	3	8	0	11.07
65316	40349	0	22.37	44.74	Hydropsyche incommoda	11.84	4	9	0	19.41
65379	40364	0	11.61	32.9	Tricorythodes albilineatus	36.77	2	7	0	51.29
65379	40364	0	11.11	33.33	Tricorythodes albilineatus	37.25	3	6	0	52.29
65382	40367	0	8.13	40	Caenis	42.5	2	2	0	45
65382	40367	0	9.93	28.37	Caenis	29.79	2	2	0	47.16
65414	40405	0	23.61	23.61	Micromenetus	9.72	3	7	6.94	18.4
65414	40405	0	30.5	12.06	Cernotina/Caecidotea	10.64	3	5	6.03	20.57
65567	40448	2.04	37.41	14.97	Hyalella azteca	2.04	2	3	1.02	34.35
65567	40448	2.14	37.86	15.71	Tanytarsus sp. f epler	1.43	1	2	1.43	30
65636	40430	0.65	56.86	13.73	Polypedilum illinoense grp.	5.23	5	9	3.92	34.31
65636	40430	0.69	46.21	10.34	Caecidotea	11.03	3	7	5.17	31.03
65637	40431	0	27.04	40.25	Leptophlebiidae	42.77	3	5	9.43	35.53
65637	40431	0	29.08	48.94	Leptophlebiidae	49.65	2	2	6.03	35.46
65715	40524	0	30.57	8.92	Leptophlebiidae/Nectopsyche exquisita	15.29	3	10	1.59	39.49
65715	40524	2.03	26.35	10.14	Nectopsyche exquisita	11.49	4	10	1.69	34.12
65731	40476	2.5	35	15.63	Hydropsyche	12.5	3	11	0.94	19.38
65731	40476	1.95	30.52	15.58	Hydropsyche	11.69	4	12	1.3	16.88
65736	40479	0	26.53	16.33	Microcylloepus pusillus	12.24	5	14	0.34	31.29
65736	40479	0.71	33.57	19.29	Polypedilum flavum	7.86	4	14	0.36	28.57
65737	40481	0.66	28.95	13.16	Triaenodes	5.26	3	10	0.66	19.74
65737	40481	0	28.48	16.56	Triaenodes	3.31	3	13	0.33	20.2
65739	40534	2.05	10.27	48.63	Eurylophella doris	60.27	7	13	3.08	37.67
65739	40534	2.05	8.22	41.78	Eurylophella doris	57.53	6	14	1.71	41.78

SampleID	Benth_IDs	Decapoda Pct	Diptera Pct	Dominant Pct	DominantPct Word	Ephem Pct	EphemTaxa	EPTTaxa	FFBrowGrazPct	FFEpiColDepPct
65741	40537	1.36	20.41	17.69	Taeniopteryx	21.09	6	16	0	32.31
65741	40537	1.37	23.97	25.34	Taeniopteryx	15.75	3	11	0	38.01
65891	40544	0	35.06	26.62	Cheumatopsyche/Rheotanytarsus exiguus grp.	9.74	4	7	0	20.78
65891	40544	0	33.76	29.94	Rheotanytarsus exiguus grp.	14.65	3	5	0	19.43
65900	40550	0	51.01	33.56	Polypedilum flavum	26.17	4	8	0	35.23
65900	40550	0	52.56	35.9	Polypedilum flavum	20.51	2	7	0.32	33.65
65907	40552	1.32	45.39	29.61	Polypedilum flavum	5.92	4	8	0.66	35.86
65907	40552	1.32	45.03	25.83	Polypedilum flavum	4.64	3	7	0	35.43
65931	40577	0	50.63	22.5	Polypedilum flavum	16.88	9	11	0.94	35.63
65931	40577	0	47.06	24.84	Polypedilum flavum	15.03	8	14	0	35.29
65932	40564	0	55.77	26.28	Paratanytarsus	29.49	7	8	0.32	41.03
65932	40564	0	36.49	27.7	Caenis	43.24	5	6	0	39.86
66028	40571	1.42	17.02	17.02	Microcylloepus pusillus	6.38	4	9	0.71	23.4
66028	40571	1.39	18.06	19.44	Microcylloepus pusillus	6.25	5	10	1.04	24.65

SampleID	Benth_IDs	FFParasite Pct	FFPlPierce Pct	FFPredCarnPct	FFScav Pct	FFScrape Pct	FFShred Pct	FFSubColDepPct	FFSusp FiltPct	FFUnknownPct
3105	3980	0	0.72	5.8	3.26	13.41	13.41	14.49	21.01	0
3682	4628	0	0	19.44	0	12.96	11.11	5.56	23.15	0
3797	4802	0	0.68	18.15	1.71	21.58	7.88	0	13.01	0.68
3952	5024	0	0	19.05	1.7	14.63	13.61	0	19.73	0
6810	7823	0	0	17.73	3.64	11.82	15.45	15.45	5	2.73
7183	8268	0	0	18.98	0.93	1.85	10.65	2.78	43.52	1.85
7224	8306	0	0	19.03	1.33	11.95	17.7	5.31	16.81	0.88
7776	8853	0	0	5.48	0	8.22	25.68	9.59	13.7	0
7778	8855	0	0	13.95	0.68	3.06	8.84	20.41	16.33	8.16
7779	8856	0	0	8.25	0	7.28	16.99	5.83	34.95	0
9179	10164	0	0	15.99	1.36	4.76	4.76	2.04	53.4	0
9196	10181	0	0	9.72	6.48	16.67	20.83	1.85	7.41	0.93
9206	10191	0	12.33	8.56	7.19	9.59	11.64	3.42	13.36	1.37
9395	10288	0	0	9.81	1.4	12.62	12.15	1.87	18.69	6.54
9396	10289	0	0	3.26	2.17	21.38	6.52	3.62	38.77	0
9399	10292	0	0	6.33	13.55	6.33	12.95	7.83	24.7	0
10131	10723	0	0	18.54	1.99	6.29	12.91	9.27	19.87	6.62
10591	11209	0	0	21.34	4.14	26.11	3.82	14.01	8.28	1.27
10633	11325	0	0	15.03	0.65	10.78	8.82	13.07	29.08	0.65
10785	11544	0	0	14.02	0.93	25.7	4.67	0.93	15.89	0

SampleID	Benth_IDs	FFParasite Pct	FFPlPierce Pct	FFPredCarnPct	FFScav Pct	FFScrape Pct	FFShred Pct	FFSubColDepPct	FFSuspFiltPct	FFUnknownPct
10844	11554	0	1.2	10.84	2.71	1.2	15.66	11.45	27.41	0
11464	11963	0	5.44	7.48	0	17.35	15.99	0.68	27.55	1.36
11607	12057	0	0	15.36	0.36	6.07	4.64	24.29	16.43	0
12089	12197	0	1.92	12.82	0	6.09	25.32	3.21	12.5	0
12092	12201	0	0	29.62	0.77	8.46	6.54	1.54	14.23	1.54
12224	12340	0	3.6	13.06	0	12.61	12.16	4.5	27.93	0
12401	12463	0	0	21.61	1.27	8.9	23.31	1.69	16.95	1.69
12436	12486	0	0	8.66	0	18.11	14.96	3.15	22.05	0
12450	12500	0	0	9.92	0	4.76	14.29	0	40.48	0
12600	12548	0	0	14.09	0	17.73	12.27	14.55	14.55	0
12609	12557	0	0	10	0.48	6.19	5.71	31.43	14.76	18.1
13475	12867	0	0	24.47	3.55	3.55	2.13	5.67	46.81	4.26
13535	12898	0	0	24.38	0.41	11.16	7.44	1.65	16.12	8.26
14213	13118	0	0	26.59	0.58	1.16	28.32	0.58	17.92	8.09
14231	13136	0	0	21.48	0.39	10.94	11.33	0	28.13	6.25
14930	13379	0	13.25	4.97	0.99	11.26	4.3	9.27	33.44	0
14965	13401	0	2.31	15.9	0.58	9.83	5.2	0	43.93	2.31
14966	13403	0	0	18	5	13	18	11	2.5	1
15951	14187	0.91	0	10	0	24.09	12.27	0	18.18	0
16636	14709	0	0.63	32.28	4.11	13.29	9.18	1.9	3.8	0
16643	14716	0	1	20.5	2.5	5.5	5.5	5	34.5	1

SampleID	Benth_IDs	FFParasite Pct	FFPlPierce Pct	FFPredCarnPct	FFScav Pct	FFScrape Pct	FFShred Pct	FFSubColDepPct	FFSuspFiltPct	FFUnknownPct
18076	15790	0	0	10.98	3.79	45.45	11.36	0	4.55	0
18372	15965	0	1.86	14.6	0	12.73	18.63	3.73	16.77	0
18594	16087	0	0	11.29	1.21	16.53	9.27	0.81	28.23	0
20471	17104	0	0	17.57	0	12.16	8.56	4.5	30.18	5.41
20474	17107	0	0	13.96	7.21	22.52	13.06	0.9	6.76	3.6
20479	17112	0	0	19.37	7.21	5.86	10.36	1.8	23.42	0
20480	17113	0	0	14.07	0.3	8.98	19.76	12.57	14.97	0
21571	17864	0	0	6.57	1.46	9.85	20.07	5.84	19.71	0
22114	18267	0	0	22.69	3.24	10.65	16.2	0.93	5.09	0
24523	19456	0	1.74	18.7	1.3	14.78	5.22	4.35	14.78	0
24524	19457	0	1.35	23.99	1.01	7.09	8.78	1.35	30.07	2.03
25672	19985	0	0	19.5	7	24.5	14	1	2.5	0
26863	20697	0	2.11	6.69	3.17	3.17	16.9	2.82	33.1	0
26865	20699	0	0	16.1	0	23.31	6.78	7.63	13.98	0
26868	20702	0	0.44	10.09	12.28	11.4	2.63	7.89	41.23	0
47698	32249	0	0	12.26	0	22.64	7.08	0	27.36	0
48420	33507	0	0	9.8	0	3.43	8.33	2.94	25.49	10.78
50131	33604	0	0	8.1	0	13.81	17.14	2.86	17.62	4.76
52996	33624	0	0	5.19	9.43	13.68	8.02	4.72	26.89	1.89
52471	34244	0	0.49	8.33	8.82	16.67	7.84	2.94	23.53	0
52912	34645	0	0	13.18	8.18	17.27	5	3.64	23.18	4.55

SampleID	Benth_IDs	FFParasite Pct	FFPlPierce Pct	FFPredCarnPct	FFScav Pct	FFScrape Pct	FFShred Pct	FFSubColDepPct	FFSusp FiltPct	FFUnknownPct
53274	34807	0	0	14	0	16.5	12	2	21.5	0
53732	35065	0	0	5.91	0	1.82	3.64	12.73	69.09	0
53951	35284	0	0	6.82	0.45	29.09	9.55	3.64	4.55	0
52834	35565	0	0	9.05	0	18.57	3.33	13.33	18.57	4.76
49652	35784	0	0	2.8	0	16.82	7.48	1.87	44.39	0.93
53059	36666	0	0	34	0	17	4.5	4	17	0
49677	36688	0	0	11.68	0.47	18.22	21.03	0.93	8.88	0
57322	36904	0	0	4.46	4.78	14.65	6.69	0.64	46.82	1.27
57322	36904	0	0	8.18	4.4	12.26	5.66	0	50.31	0.63
57324	36989	0	8.78	2.36	0	10.81	10.14	0.68	15.54	4.05
57324	36989	0	5.26	7.57	0.66	2.3	12.83	1.97	8.55	5.92
57431	36987	0	0	4.79	0	10.27	13.36	0	46.58	0
57431	36987	0	0	5.67	0	13.67	16	0	36.67	0
59773	38075	0	16.46	17.72	0	9.49	2.53	1.27	6.33	6.33
59773	38075	0	20.69	19.66	0.69	5.86	1.03	0.69	5.17	4.14
60301	38292	0	0	12.59	2.04	13.61	14.63	0.68	17.01	0.68
60301	38292	0.7	0	8.04	4.9	19.93	12.59	1.4	20.28	2.8
60308	38307	0	3.45	12.76	0	6.9	3.45	0	19.66	26.9
60308	38307	0	3.55	8.16	0	4.26	0.71	0	19.86	38.3
60639	38485	0	2.78	3.13	0	35.76	4.51	0	6.94	0.69
60639	38485	0	4.2	3.5	1.05	30.77	2.1	0	11.89	0
60751	38544	0	0.7	6.99	0.35	11.19	4.55	2.1	49.3	0.7
60751	38544	0.31	1.26	9.43	1.26	14.78	3.77	1.26	41.51	0
62733	39186	0	9.09	5.19	0	5.19	8.44	0	21.75	5.84
62733	39186	0	7.64	2.23	0	5.41	12.1	0	17.83	5.1

SampleID	Benth_IDs	FFParasite Pct	FFPlPierce Pct	FFPredCarnPct	FFScav Pct	FFScrape Pct	FFShred Pct	FFSubColDepPct	FFSusp FiltPct	FFUnknownPct
63694	39707	0	0	9.06	0	4.38	20.94	0	10	0.63
63694	39707	0	0	12.01	0.32	9.74	16.88	0	6.82	4.55
64191	40004	0	0	0.63	0	0.31	1.88	0.63	48.44	20
64191	40004	0	0	0.63	0	0.63	2.85	0	38.61	30.38
64546	40384	0	0	10.49	1.05	18.18	18.88	4.9	6.99	0
64546	40384	0.66	0.33	11.92	0.66	12.58	24.17	2.65	10.26	0
65025	40260	0	0	13.61	0.68	11.22	27.55	0.68	17.69	0.68
65025	40260	0	0	11.03	1.72	14.14	22.76	0	15.52	2.76
65026	40261	0	0	9.25	0.34	33.9	7.53	0	25.68	1.37
65026	40261	0	0	7.34	0.7	27.62	10.84	1.4	29.72	0.7
65028	40263	0	0	27.66	0.35	13.48	11.7	4.26	17.73	0.71
65028	40263	0	0	24.65	0	14.44	15.49	0.7	20.42	1.41
65029	40264	0	0	13.91	0.99	20.2	18.21	1.32	16.56	0.66
65029	40264	0	0	10.54	0.68	23.47	19.73	0.68	15.65	0
65250	40368	0	0.65	10.78	0.33	12.75	25.82	1.31	19.93	0.65
65250	40368	0	0.71	12.5	0.36	15	20	2.14	23.93	0
65291	40343	0.68	21.92	15.07	5.48	7.53	6.85	1.37	9.59	9.59
65291	40343	0	25.5	16.44	5.7	6.38	5.03	0	6.38	9.4
65292	40344	0	4.26	18.44	1.42	17.02	13.12	0.71	18.79	2.84
65292	40344	0	7.64	23.96	1.74	8.33	16.67	0.69	12.15	5.56
65293	40345	0	12.77	7.8	0.35	2.84	9.22	0	46.1	1.42
65293	40345	0	16.25	4.69	1.25	2.19	6.25	0.63	48.44	1.88
65296	40348	0	9.4	10.74	0	13.42	10.07	0.67	22.48	1.34
65296	40348	0	4.26	10.99	1.06	13.12	14.89	2.84	20.21	1.42
65306	40406	0	0	36.6	0	12.75	21.24	1.96	4.58	0

SampleID	Benth_IDs	FFParasite Pct	FFPlPierce Pct	FFPredCarnPct	FFScav Pct	FFScrape Pct	FFShred Pct	FFSubColDepPct	FFSuspFiltPct	FFUnknownPct
65306	40406	0	0.66	42.43	0	11.18	17.76	3.29	6.58	0
65316	40349	0	6.43	2.86	0	2.5	3.57	0.71	72.86	0
65316	40349	0	5.92	3.29	0	3.62	6.58	0	61.18	0
65379	40364	0	1.29	5.48	0	21.94	2.9	0	15.16	1.94
65379	40364	0	5.23	7.84	0	20.26	4.58	0	8.5	1.31
65382	40367	0	0	15.94	0	36.88	0	0	2.19	0
65382	40367	0	0	11.7	0	30.85	1.42	2.84	6.03	0
65414	40405	0	0	15.28	7.29	34.03	2.78	0.69	4.86	9.72
65414	40405	0	0	30.5	6.03	18.79	3.19	0	4.26	10.64
65567	40448	0	1.02	6.12	2.04	8.5	9.52	23.13	14.29	0
65567	40448	0	0	4.64	1.79	3.57	9.64	30	14.64	4.29
65636	40430	0	0.65	15.03	4.25	16.99	16.01	0	8.82	0
65636	40430	0.34	0	16.55	5.52	21.03	14.48	0	3.79	2.07
65637	40431	0	0.31	8.81	9.43	22.01	2.52	0.63	11.32	0
65637	40431	0	0	8.16	6.03	24.82	1.77	2.13	15.6	0
65715	40524	0	0.64	20.06	1.59	13.06	16.24	0	4.14	3.18
65715	40524	0	0	21.62	2.7	13.85	13.85	0	5.41	6.76
65731	40476	0	0	12.5	2.19	12.5	10.94	0	41.56	0
65731	40476	0	0	21.1	1.95	8.44	7.14	0.65	42.53	0
65736	40479	0	0.68	11.56	0.34	22.11	14.63	2.04	13.61	3.4
65736	40479	0	4.29	15.36	0.71	14.64	22.14	0	11.79	2.14
65737	40481	0	0	18.75	1.64	11.18	25.33	1.97	20.72	0
65737	40481	0	0	17.88	0.33	15.56	25.17	0.66	19.21	0.66
65739	40534	0	0	5.48	4.11	31.51	5.14	0	13.01	0
65739	40534	0	0	3.08	2.74	30.48	6.51	0	10.96	2.74

SampleID	Benth_IDs	FFParasite Pct	FFPlPierce Pct	FFPredCarnPct	FFScav Pct	FFScrape Pct	FFShred Pct	FFSubColDepPct	FFSuspFiltPct	FFUnknownPct
65741	40537	0	0	10.88	1.02	16.33	22.11	0	17.35	0
65741	40537	0	0	11.64	1.03	13.36	20.55	0	15.41	0
65891	40544	0	0	3.25	0	14.61	6.17	0	55.19	0
65891	40544	0	0	2.87	0	14.65	4.46	0	58.6	0
65900	40550	0	0	1.01	0	18.79	19.46	0	25.5	0
65900	40550	0	0	2.24	0.32	16.67	19.87	0	26.92	0
65907	40552	0	0	4.28	0.99	21.38	19.08	1.32	15.79	0.66
65907	40552	0	0	3.31	0.66	20.2	22.52	1.99	15.89	0
65931	40577	0	0	8.13	1.56	13.75	18.44	0.63	20.31	0.63
65931	40577	0	0.65	9.15	0.65	11.11	20.92	0	20.92	1.31
65932	40564	0	0	5.13	0.64	18.59	4.81	1.28	26.92	1.28
65932	40564	0	0	6.08	0	30.07	1.35	2.03	19.26	1.35
66028	40571	0.71	0.35	14.54	0.71	30.5	5.67	0	23.4	0
66028	40571	0	0.69	19.44	1.04	27.43	3.47	0.69	20.83	0.69

SampleID	Benth_IDs	Gastropoda Pct	Isopoda Pct	LongLivedTaxa	Odonata Pct	Oligoc Pct	Oligoc Taxa	PelecypodaPct	Plecop Pct	Polychaete Pct	Polychaete Taxa
3105	3980	9.42	0	3	2.17	14.49	2	0.72	0	0	0
3682	4628	0	0	1	3.71	5.56	2	0	1.85	0	0
3797	4802	0.68	0	4	10.27	0	0	6.16	0	0	0
3952	5024	1.36	0	5	11.56	0	0	1.36	0	0	0
6810	7823	11.82	1.82	3	10.91	15.45	2	0	0	0	0
7183	8268	0	0	4	1.85	2.78	2	0	13.89	0	0
7224	8306	0	0	9	8.84	5.31	4	0.88	11.5	0	0
7776	8853	4.79	0	1	0.68	9.59	5	13.01	0	0	0
7778	8855	8.16	0	2	2.04	20.41	4	11.56	0	0	0
7779	8856	6.8	0	1	0.97	5.83	3	23.3	0	0	0
9179	10164	0	0.68	4	1.36	2.04	2	2.04	0.68	0	0
9196	10181	16.67	1.85	1	2.78	1.85	1	2.78	0	0	0
9206	10191	6.16	2.05	1	1.37	3.42	3	0	0	0	0
9395	10288	6.54	0	2	0.93	1.87	1	12.15	0	0	0
9396	10289	7.97	1.45	1	0.72	3.62	2	30.43	0	0	0
9399	10292	2.41	12.65	2	0.6	7.83	4	16.87	0	0	0
10131	10723	0	1.32	5	1.32	9.27	3	0	1.99	0	0
10591	11209	21.66	3.82	2	7.64	14.01	7	7.64	0	0	0
10633	11325	1.96	0	6	3.27	13.07	4	2.61	1.96	0	0
10785	11544	0	0	4	7.48	0.93	1	4.67	0	0	0

SampleID	Benth_IDs	Gastropoda Pct	Isopoda Pct	LongLivedTaxa	Odonata Pct	Oligoc Pct	Oligoc Taxa	PelecypodaPct	Plecop Pct	Polychaete Pct	Polychaete Taxa
10844	11554	0	0	4	1.81	11.45	3	1.2	0	0	0
11464	11963	14.29	0	1	2.04	0.68	1	0	0	0	0
11607	12057	1.43	0	2	0.71	24.29	2	0	0.71	0	0
12089	12197	0	0	2	5.77	3.21	2	5.77	0	0	0
12092	12201	0	0	3	0.77	1.54	2	0	41.54	0	0
12224	12340	0.9	0	1	0.9	4.5	4	10.81	0	0	0
12401	12463	3.39	0	2	5.08	1.69	2	0	16.95	0	0
12436	12486	0	0	6	0.79	3.15	2	0	7.87	0	0
12450	12500	0	0	1	0.79	0	0	0	0	0	0
12600	12548	1.82	0	1	4.55	14.55	6	5.45	0	0	0
12609	12557	0	0	1	0	31.43	2	0	0.95	0	0
13475	12867	0	0	3	0	5.67	3	0	14.18	0	0
13535	12898	0.83	0	4	3.31	1.65	2	0	4.13	0	0
14213	13118	0	0	5	2.31	0.58	1	0	22.54	0	0
14231	13136	0	0	6	5.47	0	0	0	11.72	0	0
14930	13379	1.99	0	2	1.32	9.27	5	10.6	0	0	0
14965	13401	0	0	8	1.74	0	0	0	2.89	0	0
14966	13403	2	2	3	0	11	1	0	8	0	0
15951	14187	9.09	0	1	4.55	0	0	1.82	0	0	0
16636	14709	0.63	1.9	1	15.82	1.9	3	0.63	0	0	0
16643	14716	0	2	2	3	5	3	0	4	0	0

SampleID	Benth_IDs	Gastropoda Pct	Isopoda Pct	LongLivedTaxa	Odonata Pct	Oligoc Pct	Oligoc Taxa	PelecypodaPct	Plecop Pct	Polychaete Pct	Polychaete Taxa
18076	15790	32.58	3.79	0	3.79	0	0	3.03	0	0	0
18372	15965	0	0	1	7.45	3.73	4	9.32	0	0	0
18594	16087	2.42	0	2	0.81	0.81	1	0	0	0	0
20471	17104	2.7	0	3	4.5	4.5	3	0	0.9	0	0
20474	17107	12.61	7.21	0	2.7	0.9	1	3.6	0	0	0
20479	17112	3.6	5.41	2	0.9	1.8	2	0	0	0	0
20480	17113	0	0	1	4.19	12.57	6	0	0	0	0
21571	17864	2.19	0	2	0.73	5.84	3	0.73	0	0	0
22114	18267	9.26	1.85	1	8.33	0.93	1	0	0	0	0
24523	19456	0	0	4	3.48	4.35	3	0	5.22	0	0
24524	19457	0	0	5	0.68	1.35	2	0.68	13.51	0	0
25672	19985	18	4	3	6	1	1	0	0	0	0
26863	20697	0	1.41	1	0	2.82	2	0	0	0	0
26865	20699	3.39	0	2	8.47	7.63	3	0	0	0	0
26868	20702	7.89	12.28	0	1.75	7.89	6	14.04	0	0	0
47698	32249	0	0	1	3.77	0	0	0	0	0	0
48420	33507	0	0	2	1.96	2.94	2	0	5.88	0	0
50131	33604	0	0	4	0	2.86	2	0	2.86	0	0
52996	33624	3.77	9.43	0	4.72	4.72	2	0	0	0	0
52471	34244	4.9	17.65	1	1.96	2.94	1	0.98	0	0	0
52912	34645	0	7.27	4	9.09	3.64	2	0.91	0	0	0

SampleID	Benth_IDs	Gastropoda Pct	Isopoda Pct	LongLivedTaxa	Odonata Pct	Oligoc Pct	Oligoc Taxa	PelecypodaPct	Plecop Pct	Polychaete Pct	Polychaete Taxa
53274	34807	0	0	3	1	2	2	1	4	0	0
53732	35065	0	0	0	0.91	12.73	2	0	0	0	0
53951	35284	0	0.91	0	0.91	3.64	3	0	0	0	0
52834	35565	0.95	0	1	1.9	13.33	5	5.71	0	0	0
49652	35784	0	0	0	0.93	1.87	1	0	0.93	0	0
53059	36666	0	0	0	22	4	2	0	0	0	0
49677	36688	0	0	3	1.87	0.93	1	0	14.02	0	0
57322	36904	5.73	9.55	3	3.18	0.64	1	1.27	0	0	0
57322	36904	2.52	8.81	3	6.29	0	0	5.03	0	0	0
57324	36989	4.73	0	1	0	0.68	1	4.05	0	0	0
57324	36989	0	0	3	1.32	1.97	1	0.66	0	0	0
57431	36987	0.68	0	0	1.37	0	0	0	0	0	0
57431	36987	0	0	1	2.67	0	0	0	0	0	0
59773	38075	0	0	1	1.27	1.27	1	0	0.63	0	0
59773	38075	0	0.69	1	0	0.69	1	0	1.38	0	0
60301	38292	6.12	2.04	1	1.36	0.68	1	2.04	0	0	0
60301	38292	14.69	4.9	1	0.7	1.4	1	2.1	0	0	0
60308	38307	0	0	1	0	0	0	0	0	0	0
60308	38307	0	0	1	0.71	0	0	0	0	0	0
60639	38485	32.64	0	2	0.69	0	0	0.69	0	0	0
60639	38485	23.08	0	3	0.7	0	0	0.7	0	0	0
60751	38544	0.7	0.7	1	2.8	2.1	2	6.29	0	0	0
60751	38544	2.52	2.52	1	5.66	1.26	1	3.14	0	0	0
62733	39186	3.25	0	2	0	0	0	0.65	0	0	0
62733	39186	1.91	0	1	0	0	0	0.64	0	0	0

SampleID	Benth_IDs	Gastropoda Pct	Isopoda Pct	LongLivedTaxa	Odonata Pct	Oligoc Pct	Oligoc Taxa	PelecypodaPct	Plecop Pct	Polychaete Pct	Polychaete Taxa
63694	39707	3.75	0	1	0.63	0	0	0.63	0	0	0
63694	39707	6.49	0	1	1.95	0	0	0	0	0	0
64191	40004	0	0	2	0	0.63	1	0	0	0	0
64191	40004	0	0	1	0	0	0	0	0	0	0
64546	40384	0.7	0	2	4.2	4.9	3	0	0	0	0
64546	40384	0.66	0.66	1	3.31	2.65	1	0.66	0	0	0
65025	40260	0	0	3	0	0.68	1	0	22.45	0	0
65025	40260	0	0	3	0	0	0	0	16.55	0	0
65026	40261	25.34	0	3	0.68	0	0	1.37	0	0	0
65026	40261	23.08	0	2	4.2	1.4	2	0.7	0	0	0
65028	40263	1.42	0	6	7.09	4.26	2	1.42	2.84	0	0
65028	40263	0.7	0	5	4.23	1.41	2	3.52	3.52	0	0
65029	40264	1.32	1.99	4	0	1.32	2	1.32	5.96	0	0
65029	40264	0	0.68	6	0.68	0.68	1	0.68	7.48	0	0
65250	40368	5.23	0	1	1.96	1.31	1	0	3.27	0	0
65250	40368	6.43	0	3	2.86	2.14	2	0.71	1.43	0	0
65291	40343	0	9.59	2	2.05	1.37	2	0	2.05	0	0
65291	40343	0	10.07	2	4.03	0	0	0	0	0	0
65292	40344	0.71	0	6	4.26	0.71	1	0	6.38	0	0
65292	40344	0.69	0	6	4.17	0.69	1	0	8.33	0	0
65293	40345	0	0.71	1	0	0	0	0.71	0	0	0
65293	40345	0	1.88	1	0.63	0.63	1	0	0	0	0
65296	40348	2.68	0	3	1.34	0.67	1	3.36	0.67	0	0
65296	40348	1.42	0	3	1.42	2.84	3	0	0	0	0
65306	40406	0.65	0	0	7.19	1.96	2	0	0	0	0

SampleID	Benth_IDs	Gastropoda Pct	Isopoda Pct	LongLivedTaxa	Odonata Pct	Oligoc Pct	Oligoc Taxa	PelecypodaPct	Plecop Pct	Polychaete Pct	Polychaete Taxa
65306	40406	1.97	0	0	8.55	3.29	2	0	0	0	0
65316	40349	0	0	0	0.71	0.71	1	0	0	0	0
65316	40349	0	0	0	0.66	0	0	0	0	0	0
65379	40364	22.58	0	1	1.94	0	0	1.94	0	0	0
65379	40364	22.22	0	0	3.92	0	0	0	0	0	0
65382	40367	18.75	0	1	7.5	0	0	1.25	0	0	0
65382	40367	22.7	0	1	5.67	2.84	1	4.26	0	0	0
65414	40405	29.17	13.89	0	4.86	0.69	1	1.39	0	0	0
65414	40405	12.06	12.06	0	4.96	0	0	2.13	0	0	0
65567	40448	7.48	0	1	1.36	23.13	7	4.76	0	0	0
65567	40448	2.14	0.71	1	1.43	30	9	3.57	0	0	0
65636	40430	11.76	7.84	2	3.92	0	0	0	0	0	0
65636	40430	10.34	10.34	1	2.76	0	0	0	0	0	0
65637	40431	0	18.87	0	0	0.63	1	2.52	0	0	0
65637	40431	0	12.06	0	0	2.13	2	4.26	0	0	0
65715	40524	0.64	3.18	0	8.92	0	0	0.64	3.18	0	0
65715	40524	0	3.38	2	12.16	0	0	0	0.68	0	0
65731	40476	1.88	1.88	3	4.38	0	0	0	0	0	0
65731	40476	0.65	1.95	4	8.44	0.65	1	0	0	0	0
65736	40479	0.68	0.68	2	4.08	2.04	1	0	4.76	0	0
65736	40479	0.71	0.71	5	4.29	0	0	0.71	3.57	0	0
65737	40481	1.97	1.32	3	11.84	1.97	1	0	3.95	0	0
65737	40481	1.99	0.66	2	9.27	0.66	1	0	0.66	0	0
65739	40534	0	6.16	1	0	0	0	0	2.05	0	0
65739	40534	2.05	3.42	3	0.68	0	0	0.68	2.05	0	0

SampleID	Benth_IDs	Gastropoda Pct	Isopoda Pct	LongLivedTaxa	Odonata Pct	Oligoc Pct	Oligoc Taxa	PelecypodaPct	Plecop Pct	Polychaete Pct	Polychaete Taxa
65741	40537	0	0	6	2.72	0	0	0	19.73	0	0
65741	40537	0	0	4	1.37	0	0	0	26.71	0	0
65891	40544	0	0	0	1.3	0	0	0	0	0	0
65891	40544	0	0	0	1.27	0	0	0.64	0	0	0
65900	40550	2.01	0	1	0	0	0	2.68	0	0	0
65900	40550	1.92	0.64	0	0	0	0	0	0	0	0
65907	40552	2.63	0.66	3	1.32	1.32	1	2.63	0	0	0
65907	40552	2.65	0	2	0.66	1.99	2	2.65	0	0	0
65931	40577	3.75	1.88	1	0	0.63	1	0	0	0	0
65931	40577	1.96	0	0	1.96	0	0	0	0	0	0
65932	40564	0.64	0.64	0	0.64	1.28	1	0	0	0	0
65932	40564	3.38	0	0	0	2.03	1	0.68	0	0	0
66028	40571	12.06	0	4	3.55	0	0	15.6	0	0	0
66028	40571	7.64	0.69	5	6.25	0.69	1	11.11	0	0	0

SampleID	Benth_IDs	SCI_1992	SCI_1992 Word	SCI_2004	SCI_2004 Word	SCI_2007	SCI_2007 Word	SCI_2007 Qualifier	Sensitive Taxa
3105	3980	33	Excellent						5
3682	4628	29	Excellent						12
3797	4802	31	Excellent						4
3952	5024	31	Excellent						3
6810	7823	29	Excellent						4
7183	8268	33	Excellent						10
7224	8306	33	Excellent						19
7776	8853	25	Excellent						3
7778	8855	29	Excellent						6
7779	8856	29	Excellent						3
9179	10164	27	Excellent						11
9196	10181	27	Excellent						5
9206	10191	29	Excellent						8
9395	10288	29	Excellent						9
9396	10289	31	Excellent						6
9399	10292	31	Excellent						9
10131	10723	33	Excellent						19
10591	11209	29	Excellent						8
10633	11325	33	Excellent						16
10785	11544	31	Excellent						10

SampleID	Benth_IDs	SCI_1992	SCI_1992 Word	SCI_2004	SCI_2004 Word	SCI_2007	SCI_2007 Word	SCI_2007 Qualifier	Sensitive Taxa
10844	11554	31	Excellent						4
11464	11963	33	Excellent						8
11607	12057	33	Excellent						9
12089	12197	31	Excellent						4
12092	12201	33	Excellent						14
12224	12340	31	Excellent						6
12401	12463	29	Excellent						10
12436	12486	33	Excellent						14
12450	12500	29	Excellent						9
12600	12548	29	Excellent						7
12609	12557	29	Excellent						12
13475	12867	27	Excellent						12
13535	12898	31	Excellent						10
14213	13118	29	Excellent						10
14231	13136	31	Excellent						12
14930	13379	31	Excellent						8
14965	13401	33	Excellent						20
14966	13403	29	Excellent						11
15951	14187	33	Excellent						3
16636	14709	21	Good						2
16643	14716	33	Excellent						14

SampleID	Benth_IDs	SCI_1992	SCI_1992 Word	SCI_2004	SCI_2004 Word	SCI_2007	SCI_2007 Word	SCI_2007 Qualifier	Sensitive Taxa
18076	15790	27	Excellent						6
18372	15965	31	Excellent						5
18594	16087	27	Excellent						3
20471	17104	33	Excellent						11
20474	17107	27	Excellent						10
20479	17112	31	Excellent						3
20480	17113	33	Excellent						8
21571	17864	33	Excellent						5
22114	18267	27	Excellent						5
24523	19456	33	Excellent						13
24524	19457	33	Excellent						13
25672	19985	19	Poor						4
26863	20697	29	Excellent						3
26865	20699	31	Excellent						4
26868	20702	27	Excellent						6
47698	32249			55	Fair				6
48420	33507			76	Good				18
50131	33604			73	Good				10
52996	33624			71	Fair				10
52471	34244			76	Good				9
52912	34645			82	Good				11

SampleID	Benth_IDs	SCI_1992	SCI_1992 Word	SCI_2004	SCI_2004 Word	SCI_2007	SCI_2007 Word	SCI_2007 Qualifier	Sensitive Taxa
53274	34807			59	Fair				6
53732	35065			53	Fair				5
53951	35284			28	Poor				1
52834	35565			57	Fair				3
49652	35784			49	Fair				5
53059	36666			52	Fair				5
49677	36688			57	Fair				11
57322	36904					69	Category 1	A	6
57322	36904					69	Category 1	A	8
57324	36989					68	Category 1	A	5
57324	36989					68	Category 1	A	6
57431	36987					75	Category 1	A	8
57431	36987					75	Category 1	A	7
59773	38075					56	Category 2	A	10
59773	38075					56	Category 2	A	11
60301	38292					74	Category 1	A	9
60301	38292					74	Category 1	A	7
60308	38307					53	Category 2	A	3
60308	38307					53	Category 2	A	4
60639	38485					54	Category 2	A	7
60639	38485					54	Category 2	A	11
60751	38544					81	Category 1	A	4
60751	38544					81	Category 1	A	6
62733	39186					57	Category 2	A	5
62733	39186					57	Category 2	A	5

SampleID	Benth_IDs	SCI_1992	SCI_1992 Word	SCI_2004	SCI_2004 Word	SCI_2007	SCI_2007 Word	SCI_2007 Qualifier	Sensitive Taxa
63694	39707					47	Category 2	A	1
63694	39707					47	Category 2	A	2
64191	40004					51	Category 2	A	4
64191	40004					51	Category 2	A	4
64546	40384					44	Category 2	A	2
64546	40384					44	Category 2	A	2
65025	40260					67	Category 2	A	13
65025	40260					67	Category 2	A	14
65026	40261					57	Category 2	A	5
65026	40261					57	Category 2	A	6
65028	40263					81	Category 1	A	16
65028	40263					81	Category 1	A	14
65029	40264					78	Category 1	A	15
65029	40264					78	Category 1	A	14
65250	40368					92	Category 1	A	16
65250	40368					92	Category 1	A	13
65291	40343					70	Category 1	A	15
65291	40343					70	Category 1	A	12
65292	40344					82	Category 1	A	12
65292	40344					82	Category 1	A	13
65293	40345					59	Category 2	A	8
65293	40345					59	Category 2	A	7
65296	40348					79	Category 1	A	13
65296	40348					79	Category 1	A	9
65306	40406					50	Category 2	A	5

SampleID	Benth_IDs	SCI_1992	SCI_1992 Word	SCI_2004	SCI_2004 Word	SCI_2007	SCI_2007 Word	SCI_2007 Qualifier	Sensitive Taxa
65306	40406					50	Category 2	A	6
65316	40349					51	Category 2	A	9
65316	40349					51	Category 2	A	8
65379	40364					41	Category 2	A	3
65379	40364					41	Category 2	A	3
65382	40367					20	Category 3	A	1
65382	40367					20	Category 3	A	1
65414	40405					41	Category 2	A	8
65414	40405					41	Category 2	A	6
65567	40448					42	Category 2	A	1
65567	40448					42	Category 2	A	2
65636	40430					73	Category 1	A	13
65636	40430					73	Category 1	A	11
65637	40431					44	Category 2	A	8
65637	40431					44	Category 2	A	6
65715	40524					64	Category 2	A	9
65715	40524					64	Category 2	A	12
65731	40476					103	Category 1	A	12
65731	40476					103	Category 1	A	11
65736	40479					91	Category 1	A	14
65736	40479					91	Category 1	A	14
65737	40481					91	Category 1	A	11
65737	40481					91	Category 1	A	14
65739	40534					58	Category 2	A	8
65739	40534					58	Category 2	A	11

SampleID	Benth_IDs	SCI_1992	SCI_1992 Word	SCI_2004	SCI_2004 Word	SCI_2007	SCI_2007 Word	SCI_2007 Qualifier	Sensitive Taxa
65741	40537					74	Category 1	A	12
65741	40537					74	Category 1	A	16
65891	40544					63	Category 2	A	3
65891	40544					63	Category 2	A	2
65900	40550					64	Category 2	A	5
65900	40550					64	Category 2	A	5
65907	40552					71	Category 1	A	6
65907	40552					71	Category 1	A	7
65931	40577					62	Category 2	A	9
65931	40577					62	Category 2	A	6
65932	40564					53	Category 2	A	9
65932	40564					53	Category 2	A	4
66028	40571					82	Category 1	A	6
66028	40571					82	Category 1	A	8

SampleID	Benth_IDs	Tanytarsini Pct	TotalNind	Total Taxa	Trichop Pct	Trichop Taxa	Trombid Pct	VeryTolerant Pct	Sample Comments	Ben/Per/Phy/MacPhy Comments
3105	3980	22.46	138	40	3.62	5	0	36.96	DipNet MultFactor=.08	
3682	4628	10.19	108	37	19.44	5	0.93	3.7	DipNet GearFactor = .03	
3797	4802	9.59	146	37	15.75	6	2.74	2.05		
3952	5024	1.36	147	34	20.41	5	0	10.2		
6810	7823	3.64	110	37	3.64	3	3.64	25.45	Dipnet gear factor = 0.042; H	
7183	8268	25.93	108	34	19.44	4	0.93	1.85		
7224	8306	5.31	113	52	15.93	6	0.88	3.54		
7776	8853	0	146	35	0.68	1	0	47.95		
7778	8855	2.04	147	39	3.4	3	0.68	14.29		
7779	8856	0.97	103	28	11.65	3	0	20.39		
9179	10164	6.8	147	35	0.68	1	2.04	4.08		
9196	10181	8.33	108	31	3.7	3	0.93	19.44		
9206	10191	6.16	146	39	22.6	7	4.11	3.42		
9395	10288	0	107	34	5.61	3	1.86	0.93		
9396	10289	4.35	138	32	3.62	3	0.72	10.87		
9399	10292	7.23	166	48	1.2	2	2.41	13.25		
10131	10723	3.31	151	55	23.18	6	3.31	4.64		
10591	11209	1.27	157	48	2.55	3	3.19	23.57		
10633	11325	5.88	153	46	25.49	5	0	1.96		
10785	11544	7.48	107	34	4.67	4	0	6.54		

SampleID	Benth_IDs	Tanytarsini Pct	TotalNind	Total Taxa	Trichop Pct	Trichop Taxa	Trombid Pct	VeryTolerant Pct	Sample Comments	Ben/Per/Phy/MacPhy Comments
10844	11554	3.61	166	37	26.51	5	3.01	13.25		
11464	11963	10.2	147	36	30.61	8	2.04	10.88		
11607	12057	17.86	140	39	2.86	4	1.43	0		
12089	12197	10.9	156	41	10.9	4	0	10.26		
12092	12201	6.92	130	30	5.38	4	0	0		
12224	12340	16.22	111	32	16.22	6	2.7	9.01		
12401	12463	15.25	118	38	10.17	3	0.85	3.39	reference site b	
12436	12486	12.6	127	40	12.6	5	1.57	3.15	Westbank @ SR 99	
12450	12500	5.56	126	29	40.48	7	0.79	0	@ CR 131	
12600	12548	4.55	110	39	10	3	0	3.64	Davenport @ hywy 545	
12609	12557	5.71	105	31	4.76	2	1.9	0.95	Oklawaha	
13475	12867	0.71	141	28	3.55	1	0.71	0.71	ten mile crk	
13535	12898	12.4	121	43	16.53	8	0.83	0.83	Goldenhead branch @ oldmill	
14213	13118	13.29	173	36	14.45	8	0	1.16		
14231	13136	3.13	128	31	17.19	5	0	2.34		
14930	13379	3.31	151	38	22.52	7	0	8.61	Oklawaha Basin Study	
14965	13401	5.78	173	54	40.46	8	0	1.16	Bighorse crk @SR2	
14966	13403	1	100	34	5	3	0	3	Oklawaha -SCI	
15951	14187	9.09	110	30	16.36	6	0	16.36	SCI, BR, and qual	
16636	14709	2.53	158	25	0	0	0	13.29	N Frk. Loxahatchee river	
16643	14716	6	100	36	23	7	0	1	Little Crooked Creek	

SampleID	Benth_IDs	Tanytarsini Pct	TotalNind	Total Taxa	Trichop Pct	Trichop Taxa	Trombid Pct	VeryTolerant Pct	Sample Comments	Ben/Per/Phy/MacPhy Comments
18076	15790	0	132	25	4.55	2	0	29.55		
18372	15965	6.21	161	34	15.53	5	1.86	3.11	Tiger Creek@ Walk-in-water R	
18594	16087	22.58	124	30	0	0	0	17.74		
20471	17104	18.92	111	40	28.83	10	1.8	0.9	LIMS427458?	
20474	17107	2.7	111	33	1.8	1	3.6	11.71	LIMS432049?	
20479	17112	27.93	111	38	9.01	5	2.7	9.01	LIMS442455?	
20480	17113	8.38	167	42	11.38	5	1.2	4.79	LIMS426240?	
21571	17864	14.6	137	34	6.57	4	0	8.03	lims435364?	
22114	18267	4.63	108	42	4.63	3	3.7	16.67	LIMS476051?	
24523	19456	3.48	115	43	12.17	6	0.87	1.74	LIMS510623?	
24524	19457	4.05	148	37	22.97	7	2.03	0.68	LIMS508333?	
25672	19985	4	100	28	2	2	11	14	lims547453?	
26863	20697	1.41	142	25	35.92	4	0.7	12.68		
26865	20699	12.71	118	36	8.47	4	2.54	5.93		
26868	20702	6.14	114	32	0.88	1	1.75	16.67	532576 = Duplicate	
47698	32249	7.55	106	17	21.7	3	0	0	SID-55672	
48420	33507	12.75	102	36	10.78	3	0	1.96	Ref SCI,Biorecon,water,Periph	
50131	33604	3.81	105	24	14.29	2	0	0.95	SID-53033	
52996	33624	28.3	106	31	1.89	2	0	7.55	SID-52997	
52471	34244	2.94	102	35	12.75	4	0	4.9	SID-54263	
52912	34645	4.55	110	32	11.82	3	0	2.73	SID-54275	

SampleID	Benth_IDs	Tanytarsini Pct	TotalNind	Total Taxa	Trichop Pct	Trichop Taxa	Trombid Pct	VeryTolerant Pct	Sample Comments	Ben/Per/Phy/MacPhy Comments
53274	34807	17	100	27	6	3	3	4		
53732	35065	16.36	110	18	5.45	3	0	0.91	SID-55852	
53951	35284	4.55	110	21	1.82	2	0	11.82	SID-55073	
52834	35565	23.81	105	31	5.71	3	1.9	8.57	not enough leaves to sample.	
49652	35784	9.35	107	17	14.02	1	0	1.87	57811??	
53059	36666	12	100	21	14	3	0	1	SID-53060	
49677	36688	0.93	107	28	7.48	4	0	0.93	49678?	gear factor info
57322	36904	0	157	25	2.55	2	0.64	3.82		
57322	36904	0.63	159	29	6.92	5	0	2.52		
57324	36989	10.81	148	35	17.57	5	0.68	11.49		
57324	36989	12.5	152	36	7.89	5	0.66	9.21		
57431	36987	7.53	146	28	26.03	3	2.05	1.37		
57431	36987	5.33	150	25	24	5	1.33	0		
59773	38075	5.06	158	33	20.25	4	3.16	0.63		
59773	38075	4.14	145	27	24.83	5	1.38	0		
60301	38292	14.97	147	45	8.84	4	1.36	12.24		LIMS # is chem
60301	38292	18.18	143	39	4.2	2	0	22.38		LIMS # is chem
60308	38307	6.9	145	20	8.97	5	0	24.14		LIMS # is chem
60308	38307	13.48	141	20	7.8	4	0	18.44		LIMS # is chem
60639	38485	4.86	144	30	5.56	3	0	11.81		LIMS # is chem
60639	38485	9.09	143	30	8.39	4	0	9.79		LIMS # is chem
60751	38544	39.86	143	33	13.99	5	1.4	4.9		
60751	38544	39.62	159	37	11.95	5	1.26	5.66		
62733	39186	14.94	154	31	18.83	5	0.65	18.83		
62733	39186	10.83	157	28	17.2	5	0	10.19		

SampleID	Benth_IDs	Tanytarsini Pct	TotalNind	Total Taxa	Trichop Pct	Trichop Taxa	Trombid Pct	VeryTolerant Pct	Sample Comments	Ben/Per/Phy/MacPhy Comments
63694	39707	19.38	160	33	3.13	1	1.25	6.25		
63694	39707	21.43	154	31	3.25	1	3.25	8.44		
64191	40004	2.5	160	14	42.5	3	0	1.25		
64191	40004	1.27	158	13	30.38	4	0	1.27		
64546	40384	3.5	143	27	4.9	3	0	6.99	Habitats have alot of sponge o	
64546	40384	7.28	151	25	3.31	2	1.32	5.96	Habitats have alot of sponge o	
65025	40260	23.13	147	34	7.48	5	2.72	5.44		
65025	40260	22.07	145	33	7.59	5	0	6.21		
65026	40261	19.86	146	32	8.22	2	1.37	2.05		
65026	40261	16.08	143	31	13.99	2	0.7	1.4		
65028	40263	4.26	141	47	21.28	9	0	3.55		
65028	40263	0.7	142	39	26.76	7	0	2.11		
65029	40264	3.97	151	42	24.5	5	0	0.66		
65029	40264	2.72	147	36	25.17	5	0.68	0		
65250	40368	9.8	153	46	22.88	7	0	1.31		
65250	40368	10.71	140	43	27.86	7	0	2.86		
65291	40343	2.05	146	41	38.36	10	0.68	0.68		
65291	40343	2.01	149	39	32.89	9	0	0		
65292	40344	12.06	141	44	15.6	6	0.71	1.42		
65292	40344	4.86	144	43	19.44	6	2.08	2.78		
65293	40345	5.67	141	27	51.06	6	2.13	1.42		
65293	40345	3.13	160	31	60	4	1.25	3.13		
65296	40348	8.05	149	53	14.77	4	2.01	4.7		
65296	40348	6.38	141	53	17.02	7	0.71	3.55		
65306	40406	7.19	153	28	30.07	3	0	1.31		

SampleID	Benth_IDs	Tanytarsini Pct	TotalNind	Total Taxa	Trichop Pct	Trichop Taxa	Trombid Pct	VeryTolerant Pct	Sample Comments	Ben/Per/Phy/MacPhy Comments
65306	40406	8.55	152	29	29.61	4	0	0.66		
65316	40349	0.71	140	21	78.57	5	0	0.71		
65316	40349	4.61	152	22	63.16	5	0.66	0.66		
65379	40364	5.16	155	32	12.26	5	1.29	3.87		
65379	40364	3.27	153	30	11.76	3	1.96	1.31		
65382	40367	0.63	160	24	0	0	1.88	3.75		
65382	40367	0.71	141	22	0	0	1.42	5.67		
65414	40405	6.25	144	34	6.94	4	0.69	25		
65414	40405	4.26	141	33	12.77	2	2.13	9.22		
65567	40448	16.33	147	30	0.68	1	0	49.66		
65567	40448	17.86	140	34	0.71	1	0	53.57		
65636	40430	9.8	153	37	6.54	4	0	15.03		
65636	40430	2.76	145	35	5.52	4	0	6.9		
65637	40431	5.03	159	26	1.89	2	0	1.89		
65637	40431	4.96	141	16	0	0	0	2.84		
65715	40524	5.73	157	41	18.47	6	6.37	1.91		
65715	40524	6.08	148	42	22.3	5	6.76	0.68		
65731	40476	17.5	160	38	30	8	1.25	1.88		
65731	40476	11.04	154	41	38.31	8	0.65	1.95		
65736	40479	2.72	147	39	20.41	7	3.4	1.36		
65736	40479	2.14	140	42	27.14	8	1.43	0		
65737	40481	11.84	152	34	26.32	6	0	3.29		
65737	40481	11.26	151	37	30.46	9	0.66	0.66		
65739	40534	4.11	146	26	11.64	5	0	0.68		
65739	40534	4.79	146	31	13.01	6	0.68	0		

SampleID	Benth_IDs	Tanytarsini Pct	TotalNind	Total Taxa	Trichop Pct	Trichop Taxa	Trombid Pct	VeryTolerant Pct	Sample Comments	Ben/Per/Phy/MacPhy Comments
65741	40537	4.08	147	36	23.81	8	2.04	0		
65741	40537	1.37	146	36	18.49	6	2.05	2.05		
65891	40544	27.27	154	20	35.71	3	0	0.65		
65891	40544	30.57	157	17	33.12	2	0	0		
65900	40550	12.08	149	23	10.74	4	0.67	1.34		
65900	40550	12.18	156	20	17.95	5	0	0		
65907	40552	9.87	152	33	5.92	4	0	2.63		
65907	40552	9.93	151	35	6.62	4	1.32	1.99		
65931	40577	6.88	160	39	10	2	0	4.38		
65931	40577	7.19	153	40	13.07	6	0	1.31		
65932	40564	40.38	156	38	0.64	1	0.64	1.28		
65932	40564	22.97	148	30	0.68	1	0.68	4.73		
66028	40571	2.13	141	39	11.35	5	0	6.38		
66028	40571	4.17	144	42	12.5	5	0.69	2.78		

SampleID	Benth_IDs	LIMS ID
3105	3980	
3682	4628	
3797	4802	
3952	5024	
6810	7823	abitat Assessment score = 141
7183	8268	
7224	8306	
7776	8853	
7778	8855	
7779	8856	
9179	10164	
9196	10181	
9206	10191	
9395	10288	
9396	10289	
9399	10292	
10131	10723	
10591	11209	
10633	11325	
10785	11544	

SampleID	Benth_IDs	LIMS ID
10844	11554	
11464	11963	
11607	12057	
12089	12197	
12092	12201	
12224	12340	
12401	12463	
12436	12486	
12450	12500	
12600	12548	
12609	12557	
13475	12867	
13535	12898	
14213	13118	
14231	13136	
14930	13379	
14965	13401	
14966	13403	
15951	14187	
16636	14709	
16643	14716	

SampleID	Benth_IDs	LIMS ID
18076	15790	
18372	15965	Rd.
18594	16087	
20471	17104	427458
20474	17107	432049
20479	17112	442455
20480	17113	426240
21571	17864	435364
22114	18267	476051
24523	19456	510623
24524	19457	508333
25672	19985	547453
26863	20697	545320
26865	20699	545321
26868	20702	532576
47698	32249	
48420	33507	901033
50131	33604	
52996	33624	
52471	34244	
52912	34645	

SampleID	Benth_IDs	LIMS ID
53274	34807	921183
53732	35065	
53951	35284	
52834	35565	931187
49652	35784	
53059	36666	
49677	36688	not provided
57322	36904	987267
57322	36904	987267
57324	36989	987265
57324	36989	987265
57431	36987	988483
57431	36987	988483
59773	38075	996284
59773	38075	996284
60301	38292	989694
60301	38292	989694
60308	38307	957916
60308	38307	957916
60639	38485	1009773
60639	38485	1009773
60751	38544	
60751	38544	
62733	39186	1047271
62733	39186	1047271

SampleID	Benth_IDs	LIMS ID
63694	39707	1062029
63694	39707	1062029
64191	40004	1073771
64191	40004	1073771
64546	40384	1101305
64546	40384	1101305
65025	40260	1107319
65025	40260	1107319
65026	40261	1108241
65026	40261	1108241
65028	40263	1108242
65028	40263	1108242
65029	40264	1107318
65029	40264	1107318
65250	40368	1104532
65250	40368	1104532
65291	40343	1114484
65291	40343	1114484
65292	40344	1118005
65292	40344	1118005
65293	40345	1115662
65293	40345	1115662
65296	40348	1114483
65296	40348	1114483
65306	40406	1109444

SampleID	Benth_IDs	LIMS ID
65306	40406	1109444
65316	40349	1114486
65316	40349	1114486
65379	40364	1123221
65379	40364	1123221
65382	40367	1123224
65382	40367	1123224
65414	40405	1109703
65414	40405	1109703
65567	40448	1138258
65567	40448	1138258
65636	40430	1143072
65636	40430	1143072
65637	40431	1140202
65637	40431	1140202
65715	40524	1147711
65715	40524	1147711
65731	40476	1147752
65731	40476	1147752
65736	40479	1146451
65736	40479	1146451
65737	40481	1146453
65737	40481	1146453
65739	40534	1149470
65739	40534	1149470

SampleID	Benth_IDs	LIMS ID
65741	40537	1149472
65741	40537	1149472
65891	40544	1154331
65891	40544	1154331
65900	40550	1154417
65900	40550	1154417
65907	40552	1154418
65907	40552	1154418
65931	40577	1159028
65931	40577	1159028
65932	40564	1159029
65932	40564	1159029
66028	40571	1101419
66028	40571	1101419

SampleID	HA_IDs	STORET	Station Nickname	Station Description	Bioregion	WBID	Latitude	Longitude	Sample Date
14965	646	33040014	BIGHORSREF	BIG HORSE CREEK S.R.2 OKA.CO.	Panhandle West	28	30.922028	-86.595167	7/15/1998
26868	683	19010042	CAULKREF	Calkins Ck, off Hamp Register Rd.	Northeast	2264	30.330819	-82.241797	7/10/2001
16643	723	32020063	LTCRKCKREF	LITTLE CROOKED CREEK S.R.79 BAY CO.	Panhandle West	907	30.413444	-85.868472	1/21/1999
18594	763	28010223	NFORLOXREF	N FK LOXAHATCHEE RIVER REF BIO STATION	Peninsula	3224A	27	-80.1	10/7/1999
26865	5020	26011019	LVNGSTNREF	LIVINGSTON CREEK AT RUCKS DAIRY RD.	Peninsula	1685B	27.7	-81.4	9/5/2001
26863	5022	20020317	SILRUNREF	SILVER RUN AT CONFLUENCE WITH BOAT RAMP CANAL	Peninsula	2772	29.209917	-81.993333	9/4/2001
57324	5088	3513	FLO521150	Withlacoochee River @ Stokes Ferry	Peninsula	1329C	28.988548	-82.349844	2/20/2007
57322	5089	LEV502GS	LEV502GS	Waccasassa River - LEV502GS	Peninsula	3699	29.275903	-82.736663	2/21/2007
57431	5097	PUT308GS	PUT308GS	Little Orange Creek - PUT308GS	Peninsula	2713	29.541246	-81.953277	2/26/2007
64546	5552	23010464	WITHREF	Withlacoochee R @ county park off Auton Rd (TP3)	Peninsula	1329F	28.3	-82.1	5/7/2008
60751	5728	24010002	MANAREF	Manatee R 20 m below SR64 bridge (TP1)	Peninsula	1807C	27.473372	-82.210967	5/16/2007
65026	5733	22020093	FLRQUINREF	Quincy Creek above SR267 bridge	Panhandle West	1303	30.599722	-84.581917	6/13/2008
65296	5755	3546	S365	S365 Yellow River @ Hwy 2	Panhandle West	30	30.925354	-86.559172	7/9/2008
65291	5756	3545	S360	S360 Blackwater River @ Hwy 4	Panhandle West	24C	30.833395	-86.733732	7/9/2008
65293	5757	21010008	HAMIL6	ALAPAHA RIVER 1 SR 150 HAMILTON	Panhandle East	3324	30.599861	-83.073417	7/16/2008
65292	5759	32030023	ECONSCTREF	ECONFINA CREEK AT SCOTT RD	Panhandle West	553	30.555361	-85.435	7/24/2008
65029	5764	NUTREF001	TELOG1641	Telogia Creek at CR 1641	Panhandle West	1300	30.450144	-84.861232	6/10/2008
65316	5824	3549	S377	S377 Escambia River @ HWY 4 Bridge	Panhandle West	10C	30.964065	-87.235993	7/10/2008
65028	5825	GAD106GS	GAD106GS	Yon Creek - GAD106GS	Panhandle West	626	30.534545	-84.771164	6/13/2008
65025	5826	LIB104LV	LIB104LV	Mule Creek - LIB104LV	Panhandle West	684	30.511395	-84.827906	6/10/2008
65379	5830	22050083	STEINCANAL	Steinhatchee @ Canal Road	Panhandle East	3573A	29.828806	-83.308472	8/12/2008
65382	5831	22050040	LAFAY1	STEINHATCHEE RIVER I SR357	Panhandle East	3573B	29.890278	-83.252778	8/12/2008
65414	5834	WAK158LR	WAK158LR	Sopchoppy River - WAK158LR	Panhandle West	998	30.130119	-84.493937	6/19/2008

SampleID	HA_IDs	STORET	Station Nickname	Station Description	Bioregion	WBID	Latitude	Longitude	Sample Date
65567	5857	23010464	WITHREF	Withlacoochee R @ county park off Auton Rd (TP3)	Peninsula	1329F	28.3	-82.1	10/8/2008
65636	5927	CLA246GS	CLA246GS	Peters Creek - CLA246GS	Northeast	2444	30.007483	-81.748227	10/28/2008
65737	5929	CLA243LV	CLA243LV	Black Creek - CLA243LV	Northeast	2498	29.910805	-81.884868	11/6/2008
65736	5930	CLA254LR	CLA254LR	Black Creek - CLA254LR	Northeast	2415C	29.979571	-81.852289	11/6/2008
65637	5939	UNI234LV	UNI234LV	Olustee Creek - UNI234LV	Northeast	3504	30.095941	-82.472863	10/16/2008
65731	5946	19010006	STMAR2REF	ST MARYS RIVER AT SR #2	Northeast	2097K	30.51785	-82.230314	11/12/2008
65900	6011	24010002	MANAREF	Manatee R 20 m below SR64 bridge (TP1)	Peninsula	1807C	27.473372	-82.210967	12/17/2008
65907	6013	27311650820	EFM02	East Fork Manatee R. S of US62 on Duette Park. Myakka DOSSAC study	Peninsula	1811	27.521261	-82.137561	12/17/2008
65891	6022	GLA630GS	GLA630GS	Cypress Branch - GLA630GS	Peninsula	3235G	26.813874	-81.335414	12/16/2008
65932	6024	22050040	LAFAY1	STEINHATCHEE RIVER I SR357	Panhandle East	3573B	29.890278	-83.252778	1/14/2009
66028	6026	21202	OR006	Orange Creek	Peninsula	2747	29.509568	-81.94617	5/1/2008
65250	6036	CLA246GS	CLA246GS	Peters Creek - CLA246GS	Northeast	2444	30.007483	-81.748227	5/28/2008
65306	6037	BAK208GS	BAK208GS	St. Mary's River - BAK208GS	Northeast	2097K	30.517903	-82.23048	6/18/2008
65931	6056	22050083	STEINCANAL	Steinhatchee @ Canal Road	Panhandle East	3573A	29.828806	-83.308472	1/14/2009
65741	6063	GAD106GS	GAD106GS	Yon Creek - GAD106GS	Panhandle West	626	30.534545	-84.771164	11/20/2008
65715	6064	WAK158LR	WAK158LR	Sopchoppy River - WAK158LR	Panhandle West	998	30.130119	-84.493937	11/13/2008
65739	6066	NUTREF001	TELOG1641	Telogia Creek at CR 1641	Panhandle West	1300	30.450144	-84.861232	11/20/2008
48420	7144	32030023	ECONSCTREF	ECONFINA CREEK AT SCOTT RD	Panhandle West	553	30.555361	-85.435	2/15/2006
52834	7254	27311650820	EFM02	East Fork Manatee R. S of US62 on Duette Park. Myakka DOSSAC study	Peninsula	1811	27.521261	-82.137561	6/21/2006
60301	7531	21202	OR006	Orange Creek	Peninsula	2747	29.509568	-81.94617	3/1/2007
64191	7638	3535	SUW010	SUW010 Suwannee River	Northeast	3341B	30.508115	-82.716569	12/12/2007
59773	7701	3545	S360	S360 Blackwater River @ Hwy 4	Panhandle West	24C	30.833395	-86.733732	3/26/2007
63694	7751	3513	FLO521150	Withlacoochee River @ Stokes Ferry	Peninsula	1329C	28.988548	-82.349844	11/7/2007

SampleID	HA_IDs	Artificial Channelization	Bank Stability - left bank	Bank Stability - right bank	Habitat Score	Habitat Smothering	Primary Score	Riparian Buffer Zone Width - left bank	Riparian Buffer Zone Width - right bank	Riparian Zone Vegetation Quality - left bank	Riparian Zone Vegetation Quality - right bank
14965	646	19	9	9	132	7	55	10	10	10	10
26868	683	20	5	5	102	15	48	3	3	9	9
16643	723	20	10	10	143	16	70	10	5	9	9
18594	763	20	10	10	160	20	80	10	10	10	10
26865	5020	20	9	7	128	14	57	10	7	9	9
26863	5022	20	9	9	146	17	68	10	10	10	10
57324	5088	20	10	10	153	18	74	10	9	10	10
57322	5089	20	9	10	138	17	59	10	10	10	10
57431	5097	20	6	6	131	12	59	10	10	10	10
64546	5552	20	10	10	151	20	71	10	10	10	10
60751	5728	14	7	7	106	11	42	9	9	9	9
65026	5733	20	8	8	122	13	50	10	10	8	8
65296	5755	20	8	9	137	18	60	10	10	10	10
65291	5756	20	8	8	128	15	52	10	10	10	10
65293	5757	20	8	10	138	16	60	10	10	10	10
65292	5759	20	8	5	130	16	57	10	10	10	10
65029	5764	20	10	8	131	16	53	10	10	10	10
65316	5824	20	9	5	120	17	46	10	10	10	10
65028	5825	20	9	9	137	18	59	10	10	10	10
65025	5826	20	9	9	132	13	54	10	10	10	10
65379	5830	20	10	10	151	17	71	10	10	10	10
65382	5831	20	7	7	130	17	56	10	10	10	10
65414	5834	20	8	8	128	13	52	10	10	10	10

SampleID	HA_IDs	Artificial Channelization	Bank Stability - left bank	Bank Stability - right bank	Habitat Score	Habitat Smothering	Primary Score	Riparian Buffer Zone Width - left bank	Riparian Buffer Zone Width - right bank	Riparian Zone Vegetation Quality - left bank	Riparian Zone Vegetation Quality - right bank
65567	5857	19	10	9	137	17	59	10	10	10	10
65636	5927	20	10	10	148	15	68	10	10	10	10
65737	5929	19	8	7	144	19	70	10	10	10	10
65736	5930	20	7	7	133	17	59	10	10	10	10
65637	5939	20	8	8	118	19	42	10	10	10	10
65731	5946	20	8	10	124	17	48	10	10	9	9
65900	6011	20	6	7	109	11	38	10	10	9	9
65907	6013	20	9	9	128	16	52	10	10	9	9
65891	6022	20	9	9	134	19	58	10	10	9	9
65932	6024	20	10	10	126	14	46	10	10	10	10
66028	6026	20	7	8	127	16	52	10	10	10	10
65250	6036	20	8	8	143	19	67	10	10	10	10
65306	6037	19	6	6	114	18	43	10	10	10	10
65931	6056	20	10	10	145	14	65	10	10	10	10
65741	6063	20	9	9	133	17	55	10	10	10	10
65715	6064	20	8	8	121	16	46	10	9	10	10
65739	6066	20	10	9	134	15	55	10	10	10	10
48420	7144	20	8	8	125	7	49	10	10	10	10
52834	7254	20	9	9	128	15	52	10	10	9	9
60301	7531	20	7	7	110	11	40	10	10	8	8
64191	7638	20	10	10	144	18	66	10	10	9	9
59773	7701	19	3	9	103	11	40	9	8	8	7
63694	7751	19	9	9	114	11	45	8	8	8	8

SampleID	HA_IDs	Secondary Score	Substrate Availability	Substrate Diversity	Water Velocity
14965	646	77	15	15	18
26868	683	54	10	13	10
16643	723	73	19	15	20
18594	763	80	20	20	20
26865	5020	71	16	12	15
26863	5022	78	18	14	19
57324	5088	79	19	19	18
57322	5089	79	9	15	18
57431	5097	72	15	17	15
64546	5552	80	20	18	13
60751	5728	64	4	10	17
65026	5733	72	8	13	16
65296	5755	77	8	14	20
65291	5756	76	8	9	20
65293	5757	78	18	9	17
65292	5759	73	9	14	18
65029	5764	78	7	12	18
65316	5824	74	4	5	20
65028	5825	78	10	13	18
65025	5826	78	9	14	18
65379	5830	80	20	19	15
65382	5831	74	18	17	4
65414	5834	76	8	17	14

SampleID	HA_IDs	Secondary Score	Substrate Availability	Substrate Diversity	Water Velocity
65567	5857	78	12	18	12
65636	5927	80	18	18	17
65737	5929	74	18	18	15
65736	5930	74	9	15	18
65637	5939	76	8	13	2
65731	5946	76	7	10	14
65900	6011	71	5	8	14
65907	6013	76	9	13	14
65891	6022	76	14	15	10
65932	6024	80	13	13	6
66028	6026	75	7	14	15
65250	6036	76	11	19	18
65306	6037	71	4	10	11
65931	6056	80	18	14	19
65741	6063	78	8	13	17
65715	6064	75	10	16	4
65739	6066	79	8	14	18
48420	7144	76	7	15	20
52834	7254	76	8	14	15
60301	7531	70	3	13	13
64191	7638	78	16	12	20
59773	7701	63	3	8	18
63694	7751	69	11	8	15

SampleID	HA_IDs	Sample Comments
14965	646	Bighorse crk @SR2
26868	683	532576 = Duplicate
16643	723	Little Crooked Creek
18594	763	
26865	5020	
26863	5022	
57324	5088	
57322	5089	
57431	5097	
64546	5552	Habitats have alot of sponge on them
60751	5728	
65026	5733	
65296	5755	
65291	5756	
65293	5757	
65292	5759	
65029	5764	
65316	5824	
65028	5825	
65025	5826	
65379	5830	
65382	5831	
65414	5834	

SampleID	HA_IDs	Sample Comments
65567	5857	
65636	5927	
65737	5929	
65736	5930	
65637	5939	
65731	5946	
65900	6011	
65907	6013	
65891	6022	
65932	6024	
66028	6026	
65250	6036	
65306	6037	
65931	6056	
65741	6063	
65715	6064	
65739	6066	
48420	7144	Ref SCI,Biorecon,water,Periphyton samples taken,SCI shipped to Tall.,Turb. viola
52834	7254	not enough leaves to sample. Neoperla observed
60301	7531	
64191	7638	
59773	7701	
63694	7751	

SampleID	HA_IDs	Ben/Per/Phy/MacPhy Comments	LIMS ID	FieldComment1	FieldComment2
14965	646				
26868	683				
16643	723				
18594	763				
26865	5020				
26863	5022				
57324	5088				
57322	5089				
57431	5097				
64546	5552				
60751	5728				
65026	5733				
65296	5755				
65291	5756				
65293	5757				
65292	5759				
65029	5764				
65316	5824				
65028	5825				
65025	5826				
65379	5830				
65382	5831				
65414	5834				

SampleID	HA_IDs	Ben/Per/Phy/MacPhy Comments	LIMS ID	FieldComment1	FieldComment2
65567	5857				
65636	5927				
65737	5929				
65736	5930				
65637	5939				
65731	5946				
65900	6011				
65907	6013				
65891	6022				
65932	6024				
66028	6026				
65250	6036				
65306	6037				
65931	6056				
65741	6063				
65715	6064				
65739	6066				
48420	7144				
52834	7254				
60301	7531				
64191	7638			both banks sand/rock. Stream bed limestone.	
59773	7701				
63694	7751				

As Entered / STORET station ->	22030010	22030010	32030023	
Sample date ->	8/22/2000	9/18/2001	2/15/2006	
	Sampleid 22114/PerID	Sampleid 25672/PerID	Sampleid 48420/PerID	
Taxon Name / SampleID/PerID ->	8421 (# counted)	10528 (# counted)	18531 (# counted)	Phylum
Achnanthes	1	-	3	Bacillariophyta
Achnanthes clevei	-	19	-	Bacillariophyta
Achnanthes exigua	3	3	-	Bacillariophyta
Achnanthes hungarica	-	2	1	Bacillariophyta
Achnanthes lanceolata	64	5	-	Bacillariophyta
Achnanthes lanceolata apiculata	-	-	1	Bacillariophyta
Achnanthes minutissima	-	-	6	Bacillariophyta
Amphipleura pellucida pellucida	3	-	-	Bacillariophyta
Amphora	1	2	-	Bacillariophyta
Ankistrodesmus falcatus	1	-	-	Chlorophycota
Bacillaria paradoxa	1	3	-	Bacillariophyta
Bacillariophyceae	-	-	1	Bacillariophyta
Chlorella	-	2	3	Chlorophycota
Cocconeis disculus	-	2	-	Bacillariophyta
Cocconeis fluviatilis	10	-	-	Bacillariophyta
Cocconeis placentula	58	195	1	Bacillariophyta
Coscinodiscus	-	2	-	Bacillariophyta
Cosmarium	-	-	2	Chlorophycota
Cyanobium parvum	-	3	-	Cyanophycota
Cyanobium plancticum	-	3	-	Cyanophycota
Cyclotella	4	1	-	Bacillariophyta
Cymbella	-	12	-	Bacillariophyta
Cymbella tumida tumida	10	-	-	Bacillariophyta
Cymbellaceae	-	-	7	Bacillariophyta
Desmococcus	-	-	4	Chlorophycota
Diadesmis contenta	-	-	1	Bacillariophyta
Diatoma	-	2	-	Bacillariophyta
Encyonema	-	-	3	Bacillariophyta
Encyonema evergladianum	-	5	-	Bacillariophyta
Eunotia	135	8	191	Bacillariophyta
Fragilaria	-	-	1	Bacillariophyta
Fragilaria pinnata	-	15	-	Bacillariophyta
Fragilariaceae	-	13	-	Bacillariophyta
Frustulia rhomboides	-	-	18	Bacillariophyta
Gomphonema	7	8	5	Bacillariophyta
Gomphonema gracile	-	-	1	Bacillariophyta
Gomphonema parvulum	9	5	-	Bacillariophyta
Gomphonema subclavatum	4	-	-	Bacillariophyta
Gomphonema truncatum	-	7	-	Bacillariophyta
Gomphonema truncatum truncatum	1	-	-	Bacillariophyta
Hydrosera whampoensis	11	-	-	Bacillariophyta
Jaaginema	-	-	5	Cyanophycota
Kephyrion	-	1	-	Chrysophyta
Komvophoron schmidlei	-	-	1	Cyanophycota
Lyngbya	4	2	-	Cyanophycota
Melosira	24	-	-	Bacillariophyta
Microthamnion kuetzingianum	-	-	2	Chlorophycota
Navicula	1	-	3	Bacillariophyta
Navicula constans	-	1	-	Bacillariophyta
Navicula cryptocephala	12	9	4	Bacillariophyta
Navicula cryptotenella	-	12	2	Bacillariophyta

As Entered / STORET station ->	22030010	22030010	32030023	
Sample date ->	8/22/2000	9/18/2001	2/15/2006	
	Sampleid 22114/PerID	Sampleid 25672/PerID	Sampleid 48420/PerID	
Taxon Name / SampleID/PerID ->	8421 (# counted)	10528 (# counted)	18531 (# counted)	Phylum
Navicula minima	6	42	1	Bacillariophyta
Navicula pupula	-	7	-	Bacillariophyta
Navicula radiosa	1	-	-	Bacillariophyta
Nitzschia	4	-	6	Bacillariophyta
Nitzschia amphibia	29	32	-	Bacillariophyta
Nitzschia palea	7	9	1	Bacillariophyta
Oscillatoria	6	7	-	Cyanophycota
Pinnularia	-	-	6	Bacillariophyta
Planktolyngbya	-	-	3	Cyanophycota
Planktothrix	-	-	1	Cyanophycota
Pleurocapsa	-	-	1	Cyanophycota
Pseudanabaena	-	-	8	Cyanophycota
Scenedesmus acutiformis	-	-	1	Chlorophycota
Scenedesmus bijuga	-	-	1	Chlorophycota
Staurastrum	-	-	2	Chlorophycota
Stauroneis	-	-	2	Bacillariophyta
Stigeoclonium	-	-	1	Chlorophycota
Surirella	-	-	5	Bacillariophyta
Synechococcus	3	-	-	Cyanophycota
Synechocystis	-	-	3	Cyanophycota
Synedra	98	18	-	Bacillariophyta
Synedra ulna	-	41	-	Bacillariophyta
Synedra ulna ramesi	19	-	-	Bacillariophyta
Thalassiosira	-	-	1	Bacillariophyta

As Entered / STORET station ->
Sample date ->

Taxon Name / SampleID/PerID ->	Class	Order	Family	Genus
Achnanthes	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes
Achnanthes clevei	Bacillariophyceae	Achnanthales	Achnanthidiaceae	Karayevia
Achnanthes exigua	Bacillariophyceae	Achnanthales	Achnanthaceae	Achnanthes
Achnanthes hungarica	Bacillariophyceae	Achnanthales	Achnanthidiaceae	Lemnicola
Achnanthes lanceolata	Bacillariophyceae	Achnanthales	Achnanthidiaceae	Planothidium
Achnanthes lanceolata apiculata	Bacillariophyceae	Achnanthales	Achnanthidiaceae	Planothidium
Achnanthes minutissima	Bacillariophyceae	Achnanthales	Achnanthidiaceae	Achnanthidium
Amphipleura pellucida pellucida	Bacillariophyceae	Naviculales	Amphipleuraceae	Amphipleura
Amphora	Bacillariophyceae	Thalassiophysales	Catenulaceae	Amphora
Ankistrodesmus falcatus	Chlorophyceae	Chlorococcales	Oocystaceae	Ankistrodesmus
Bacillaria paradoxa	Bacillariophyceae	Bacillariales	Bacillariaceae	Bacillaria
Bacillariophyceae	Bacillariophyceae	Bacillariophyceae	Bacillariophyceae	Bacillariophyceae
Chlorella	Chlorophyceae	Chlorococcales	Oocystaceae	Chlorella
Cocconeis disculus	Bacillariophyceae	Achnanthales	Cocconeidaceae	Cocconeis
Cocconeis fluviatilis	Bacillariophyceae	Achnanthales	Cocconeidaceae	Cocconeis
Cocconeis placentula	Bacillariophyceae	Achnanthales	Cocconeidaceae	Cocconeis
Coscinodiscus	Coscinodiscophyceae	Coscinodiscales	Coscinodiscaceae	Coscinodiscus
Cosmarium	Chlorophyceae	Zygnematales	Desmidiaceae	Cosmarium
Cyanobium parvum	Cyanophyceae	Chroococcales	Synechococcaceae	Cyanobium
Cyanobium plancticum	Cyanophyceae	Chroococcales	Synechococcaceae	Cyanobium
Cyclotella	Coscinodiscophyceae	Thalassiosirales	Stephanodiscaceae	Cyclotella
Cymbella	Bacillariophyceae	Cymbellales	Cymbellaceae	Cymbella
Cymbella tumida tumida	Bacillariophyceae	Cymbellales	Cymbellaceae	Cymbella
Cymbellaceae	Bacillariophyceae	Cymbellales	Cymbellaceae	Cymbellaceae
Desmococcus	Chlorophyceae	Chaetophorales	Chaetophoraceae	Desmococcus
Diadesmis contenta	Bacillariophyceae	Naviculales	Diadesmidaceae	Diadesmis
Diatoma	Fragilariophyceae	Fragilariales	Fragilariaceae	Diatoma
Encyonema	Bacillariophyceae	Cymbellales	Cymbellaceae	Encyonema
Encyonema evergladianum	Bacillariophyceae	Cymbellales	Cymbellaceae	Encyonema
Eunotia	Bacillariophyceae	Eunotiales	Eunotiaceae	Eunotia
Fragilaria	Fragilariophyceae	Fragilariales	Fragilariaceae	Fragilaria
Fragilaria pinnata	Fragilariophyceae	Fragilariales	Fragilariaceae	Staurosirella
Fragilariaceae	Fragilariophyceae	Fragilariales	Fragilariaceae	Fragilariaceae
Frustulia rhomboides	Bacillariophyceae	Naviculales	Amphipleuraceae	Frustulia
Gomphonema	Bacillariophyceae	Cymbellales	Gomphonemataceae	Gomphonema
Gomphonema gracile	Bacillariophyceae	Cymbellales	Gomphonemataceae	Gomphonema
Gomphonema parvulum	Bacillariophyceae	Cymbellales	Gomphonemataceae	Gomphonema
Gomphonema subclavatum	Bacillariophyceae	Cymbellales	Gomphonemataceae	Gomphonema
Gomphonema truncatum	Bacillariophyceae	Cymbellales	Gomphonemataceae	Gomphonema
Gomphonema truncatum truncatum	Bacillariophyceae	Cymbellales	Gomphonemataceae	Gomphonema
Hydrosera whampoensis	Coscinodiscophyceae	Biddulphiales	Biddulphiaceae	Hydrosera
Jaaginema	Cyanophyceae	Oscillatoriales	Pseudanabaenaceae	Jaaginema
Kephyrion	Chrysophyceae	Chromalinales	Chrysococcaceae	Kephyrion
Komvophoron schmidlei	Cyanophyceae	Oscillatoriales	Borziaceae	Komvophoron
Lyngbya	Cyanophyceae	Oscillatoriales	Oscillatoriaceae	Lyngbya
Melosira	Coscinodiscophyceae	Melosirales	Melosiraceae	Melosira
Microthamnion kuetzingianum	Chlorophyceae	Chaetophorales	Chaetophoraceae	Microthamnion
Navicula	Bacillariophyceae	Naviculales	Naviculaceae	Navicula
Navicula constans	Bacillariophyceae	Naviculales	Naviculaceae	Navicula
Navicula cryptocephala	Bacillariophyceae	Naviculales	Naviculaceae	Navicula
Navicula cryptotenella	Bacillariophyceae	Naviculales	Naviculaceae	Navicula

As Entered / STORET station ->
Sample date ->

Taxon Name / SampleID/PerID ->	Class	Order	Family	Genus
Navicula minima	Bacillariophyceae	Naviculales	Naviculaceae	Navicula
Navicula pupula	Bacillariophyceae	Naviculales	Naviculaceae	Navicula
Navicula radiosa	Bacillariophyceae	Naviculales	Naviculaceae	Navicula
Nitzschia	Bacillariophyceae	Bacillariales	Bacillariaceae	Nitzschia
Nitzschia amphibia	Bacillariophyceae	Bacillariales	Bacillariaceae	Nitzschia
Nitzschia palea	Bacillariophyceae	Bacillariales	Bacillariaceae	Nitzschia
Oscillatoria	Cyanophyceae	Oscillatoriales	Oscillatoriaceae	Oscillatoria
Pinnularia	Bacillariophyceae	Naviculales	Pinnulariaceae	Pinnularia
Planktolyngbya	Cyanophyceae	Oscillatoriales	Pseudanabaenaceae	Planktolyngbya
Planktothrix	Cyanophyceae	Oscillatoriales	Phormidiaceae	Planktothrix
Pleurocapsa	Cyanophyceae	Pleurocapsales	Pleurocapsaceae	Pleurocapsa
Pseudanabaena	Cyanophyceae	Oscillatoriales	Pseudanabaenaceae	Pseudanabaena
Scenedesmus acutiformis	Chlorophyceae	Chlorococcales	Scenedesmaceae	Scenedesmus
Scenedesmus bijuga	Chlorophyceae	Chlorococcales	Scenedesmaceae	Scenedesmus
Staurastrum	Chlorophyceae	Zygnematales	Desmidiaceae	Staurastrum
Stauroneis	Bacillariophyceae	Naviculales	Stauroneidaceae	Stauroneis
Stigeoclonium	Chlorophyceae	Chaetophorales	Chaetophoraceae	Stigeoclonium
Surirella	Bacillariophyceae	Surirellales	Surirellaceae	Surirella
Synechococcus	Cyanophyceae	Chroococcales	Chroococcaceae	Synechococcus
Synechocystis	Cyanophyceae	Chroococcales	Chroococcaceae	Synechocystis
Synedra	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra
Synedra ulna	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra
Synedra ulna ramesi	Fragilariophyceae	Fragilariales	Fragilariaceae	Synedra
Thalassiosira	Coscinodiscophyceae	Thalassiosirales	Thalassiosiraceae	Thalassiosira

As Entered / STORET station ->
Sample date ->

Taxon Name / SampleID/PerID ->	Current Name
Achnanthes	
Achnanthes clevei	Karayevia clevei
Achnanthes exigua	Achnanthidium exiguum
Achnanthes hungarica	Lemnicola hungarica
Achnanthes lanceolata	Planothidium lanceolatum
Achnanthes lanceolata apiculata	Planothidium apiculatum
Achnanthes minutissima	Achnanthidium minutissimum
Amphipleura pellucida pellucida	
Amphora	
Ankistrodesmus falcatus	
Bacillaria paradoxa	Bacillaria paxillifer
Bacillariophyceae	
Chlorella	
Cocconeis disculus	
Cocconeis fluviatilis	
Cocconeis placentula	
Coscinodiscus	
Cosmarium	
Cyanobium parvum	
Cyanobium plancticum	
Cyclotella	
Cymbella	
Cymbella tumida tumida	
Cymbellaceae	
Desmococcus	
Diadesmis contenta	
Diatoma	
Encyonema	
Encyonema evergladianum	
Eunotia	
Fragilaria	
Fragilaria pinnata	Staurosirella pinnata
Fragilariaceae	
Frustulia rhomboides	
Gomphonema	
Gomphonema gracile	
Gomphonema parvulum	
Gomphonema subclavatum	
Gomphonema truncatum	
Gomphonema truncatum truncatum	
Hydrosera whampoensis	
Jaaginema	
Kephyrion	
Komvophoron schmidlei	
Lyngbya	
Melosira	
Microthamnion kuetzingianum	
Navicula	
Navicula constans	
Navicula cryptocephala	
Navicula cryptotenella	

As Entered / STORET station ->		
Sample date ->		
Taxon Name /	SampleID/PerID ->	Current Name
Navicula minima		
Navicula pupula		Sellaphora pupula
Navicula radiosa		
Nitzschia		
Nitzschia amphibia		
Nitzschia palea		
Oscillatoria		
Pinnularia		
Planktolyngbya		
Planktothrix		
Pleurocapsa		
Pseudanabaena		
Scenedesmus acutiformis		
Scenedesmus bijuga		
Staurastrum		
Stauroneis		
Stigeoclonium		
Surirella		
Synechococcus		
Synechocystis		
Synedra		
Synedra ulna		
Synedra ulna ramesi		
Thalassiosira		

As Entered / STORET station ->	GAD104US	LIB104LV	CLA243LV	CLA254LR	UNI234LV	LEV502GS
Sample date ->	11/14/2005	11/21/2005	11/14/2005	11/14/2005	11/15/2005	12/6/2005
	Sampleid 49652/PerID 18430 (#	Sampleid 49677/PerID 18448 (#	Sampleid 52996/PerID 19568 (#	Sampleid 50131/PerID 19608 (#	Sampleid 53059/PerID 19639 (#	Sampleid 52471/PerID 20006 (#
Taxon Name / SampleID/PerID ->	counted)	counted)	counted)	counted)	counted)	counted)
Actinotaenium	-	-	-	-	-	-
Actinotaenium perminutum	-	-	-	-	-	-
Anabaena	-	-	-	-	-	-
Anabaena subcylindrica	-	-	-	-	-	-
Ankistrodesmus	-	-	1	-	-	-
Ankistrodesmus falcatus	-	5	-	-	-	-
Aphanocapsa	-	1	-	-	-	-
Bacillariophyta	262	213	283	247	295	269
Batrachospermum	-	-	-	-	-	-
Bumilleriopsis brevis	-	-	-	-	-	-
Calothrix	-	-	-	-	-	-
Chlamydomonas	-	-	-	-	-	1
Chlorella	-	6	-	-	-	3
Chlorella vulgaris	-	-	-	-	-	-
Chlorococcum	-	2	1	-	-	2
Chlorococcum humicola	-	-	-	-	-	-
Chlorogonium	-	-	-	-	-	-
Chlorophyceae	-	4	-	-	-	-
Chroococcus	-	-	-	-	-	-
Chroococcus minutus	-	-	-	-	-	-
Chroococcus turgidus	-	-	-	-	-	-
Chrysophyceae	-	-	-	-	-	-
Cladophora	-	4	-	-	-	-
Closterium	-	-	-	-	1	-
Closterium gracile gracile	-	-	-	-	-	-
Closterium lanceolatum lanceolatum	-	-	-	-	-	-
Closterium moniliferum moniliferum	-	-	-	-	-	-
Closterium parvulum obtusum	-	-	-	-	-	-
Closterium peracerosum	-	-	-	-	-	-
Closterium venus venus	-	-	-	-	-	-
Cosmarium	3	1	-	-	-	-
Crucigenia tetrapedia	-	-	-	-	-	-
Cryptomonas	-	-	-	-	-	-
Cyanobium	-	-	-	-	-	-
Cyanobium parvum	-	9	-	-	-	-
Cyanobium plancticum	-	-	-	-	-	-
Cyanophyceae	-	-	-	-	-	-
Cyanothece	-	-	-	-	-	-
Cyanothece aeruginosa	-	-	-	-	-	-
Derepyxis	-	-	-	-	-	-
Desmidium	-	-	-	-	-	-
Dinobryon	-	-	-	-	-	-
Euglena	-	1	-	-	-	-
Euglena polymorpha	-	-	-	-	-	-
Euglenophyceae	-	-	-	-	-	-
Geitlerinema	-	-	-	-	-	-
Geitlerinema acutissimum	-	-	-	-	-	-
Glenodinium	-	-	-	-	-	-

As Entered / STORET station ->	GAD104US	LIB104LV	CLA243LV	CLA254LR	UNI234LV	LEV502GS
Sample date ->	11/14/2005	11/21/2005	11/14/2005	11/14/2005	11/15/2005	12/6/2005
	Sampleid 49652/PerID 18430 (#	Sampleid 49677/PerID 18448 (#	Sampleid 52996/PerID 19568 (#	Sampleid 50131/PerID 19608 (#	Sampleid 53059/PerID 19639 (#	Sampleid 52471/PerID 20006 (#
Taxon Name / SampleID/PerID ->	counted)	counted)	counted)	counted)	counted)	counted)
Gomontiella	-	-	-	-	-	-
Hapalosiphon	-	-	-	-	-	-
Hapalosiphon hibernicus	-	-	-	-	-	3
Heteroleibleinia	-	-	-	-	-	-
Heteroleibleinia kuetzingii	-	-	-	-	-	-
Jaaginema	-	19	-	-	5	1
Komvophoron schmidlei	-	-	-	-	-	-
Lepocinclis	-	-	-	-	-	-
Leptolyngbya	-	-	-	3	-	-
Lyngbya martensiana	-	-	-	-	-	-
Merismopedia glauca	1	-	-	-	-	-
Merismopedia warmingiana	-	-	-	-	-	-
Micrasterias	-	-	-	-	-	-
Microcystis	-	-	-	-	-	-
Microspora	-	-	-	-	-	-
Microthamnion kuetzingianum	-	3	-	-	-	-
Mougeotia	-	-	3	-	-	-
Oedogonium	-	-	1	-	-	1
Oocystis	-	-	-	-	-	-
Ophiocytium capitatum	-	-	-	-	-	-
Oscillatoria	-	-	-	13	-	-
Oscillatoria acutissima	-	-	-	-	-	-
Oscillatoria limosa	-	-	-	-	-	-
Oscillatoria princeps	-	-	-	-	-	-
Oscillatoria tenuis	-	-	-	-	-	-
Phacus	-	-	-	-	-	-
Phacus megalopsis	-	-	-	-	-	-
Phormidium	-	-	-	-	-	-
Phormidium aerugineo-caeruleum	-	-	-	-	-	-
Planktolyngbya	8	7	3	7	-	2
Planktosphaeria	-	-	-	-	-	-
Planktothrix	-	2	-	1	-	3
Pleurocapsa	-	-	-	-	-	1
Protococcus	-	-	-	-	-	-
Pseudanabaena	8	2	5	12	2	1
Pseudanabaena mucicola	-	-	-	-	-	-
Rhabdogloea	-	-	-	-	-	-
Scenedesmus	-	-	1	-	-	-
Scenedesmus abundans	-	-	-	-	-	-
Scenedesmus acuminatus	-	-	-	-	-	-
Scenedesmus bicaudatus	-	-	-	-	-	-
Scenedesmus bijuga	-	-	-	-	-	-
Scenedesmus dimorphus	1	-	-	-	-	-
Scenedesmus quadricauda	7	-	-	1	-	-
Schizothrix calcicola	3	-	-	14	-	13
Scytonema	-	-	-	-	-	-
Selenastrum	-	2	-	-	-	-
Spirogyra	-	-	4	-	-	-

As Entered / STORET station ->	GAD104US	LIB104LV	CLA243LV	CLA254LR	UNI234LV	LEV502GS
Sample date ->	11/14/2005	11/21/2005	11/14/2005	11/14/2005	11/15/2005	12/6/2005
Taxon Name / SampleID/PerID ->	Sampleid 49652/PerID 18430 (# counted)	Sampleid 49677/PerID 18448 (# counted)	Sampleid 52996/PerID 19568 (# counted)	Sampleid 50131/PerID 19608 (# counted)	Sampleid 53059/PerID 19639 (# counted)	Sampleid 52471/PerID 20006 (# counted)
Staurastrum	4	-	-	-	-	-
Staurastrum illusum illusum	-	-	-	-	-	-
Staurastrum lapponicum lapponicum	-	-	-	-	-	-
Stigeoclonium	-	-	1	-	-	-
Synechococcus	-	-	-	-	-	-
Synechocystis	-	14	-	-	-	-
Tetraedron minimum	-	-	-	-	-	-
Tetraedron trigonum	3	-	-	-	-	-
Trachelomonas	-	-	-	-	-	-
Ulothrix	-	-	-	2	-	-

As Entered / STORET station ->	PUT308GS	GLA630GS	BAK210GS	BAK210GS	27311650820 8152	LEV502GS
Sample date ->	12/13/2005	1/23/2006	11/1/2005	3/20/2006	6/21/2006	2/21/2007
Taxon Name / SampleID/PerID ->	Sampleid 52912/PerID 20031 (# counted)	Sampleid 53951/PerID 20328 (# counted)	Sampleid 47698/PerID 20630 (# counted)	Sampleid 53732/PerID 20850 (# counted)	Sampleid 52834/PerID 21128 (# counted)	Sampleid 57322/PerID 21789 (# counted)
Actinotaenium	1	-	-	-	-	-
Actinotaenium perminutum	-	-	-	-	-	-
Anabaena	-	-	-	-	-	-
Anabaena subcylindrica	-	-	-	-	-	-
Ankistrodesmus	-	-	1	-	-	-
Ankistrodesmus falcatus	-	-	-	-	-	-
Aphanocapsa	-	-	1	-	-	-
Bacillariophyta	286	186	247	261	175	251
Batrachospermum	-	-	-	-	-	-
Bumilleriopsis brevis	-	-	-	-	-	-
Calothrix	-	-	-	-	-	-
Chlamydomonas	-	2	-	-	-	-
Chlorella	2	7	6	3	3	1
Chlorella vulgaris	-	-	-	-	-	-
Chlorococcum	-	1	2	-	-	-
Chlorococcum humicola	-	-	-	-	-	-
Chlorogonium	-	1	-	-	-	-
Chlorophyceae	-	-	6	-	-	-
Chroococcus	-	-	-	-	-	-
Chroococcus minutus	-	-	-	-	-	-
Chroococcus turgidus	-	-	-	-	-	-
Chrysophyceae	-	2	1	-	-	-
Cladophora	-	-	-	-	-	-
Closterium	-	4	-	-	-	-
Closterium gracile gracile	1	-	-	-	-	-
Closterium lanceolatum lanceolatum	-	-	-	-	-	-
Closterium moniliferum moniliferum	-	-	-	-	-	-
Closterium parvulum obtusum	-	-	-	-	-	-
Closterium peracerosum	-	-	-	-	-	-
Closterium venus venus	-	-	-	-	-	-
Cosmarium	1	-	-	-	-	-
Crucigenia tetrapedia	-	-	1	-	-	-
Cryptomonas	-	1	-	-	-	-
Cyanobium	-	-	-	-	-	-
Cyanobium parvum	3	3	5	3	7	-
Cyanobium plancticum	-	-	-	6	7	-
Cyanophyceae	-	-	-	-	-	-
Cyanothece	-	-	-	-	-	-
Cyanothece aeruginosa	-	-	-	-	-	-
Derepyxis	-	-	-	-	-	-
Desmidium	-	-	-	-	-	-
Dinobryon	-	-	-	-	-	-
Euglena	-	2	-	-	3	-
Euglena polymorpha	-	-	-	-	-	-
Euglenophyceae	-	-	1	-	-	-
Geitlerinema	-	-	1	-	-	-
Geitlerinema acutissimum	-	-	-	-	-	-
Glenodinium	-	-	-	-	-	-

As Entered / STORET station ->	PUT308GS	GLA630GS	BAK210GS	BAK210GS	27311650820 8152	LEV502GS
Sample date ->	12/13/2005	1/23/2006	11/1/2005	3/20/2006	6/21/2006	2/21/2007
	Sampleid 52912/PerID 20031 (#	Sampleid 53951/PerID 20328 (#	Sampleid 47698/PerID 20630 (#	Sampleid 53732/PerID 20850 (#	Sampleid 52834/PerID 21128 (#	Sampleid 57322/PerID 21789 (#
Taxon Name / SampleID/PerID ->	counted)	counted)	counted)	counted)	counted)	counted)
Gomontiella	-	-	-	-	-	-
Hapalosiphon	-	-	-	-	-	-
Hapalosiphon hibernicus	-	-	-	-	-	-
Heteroleibleinia	-	-	-	-	9	-
Heteroleibleinia kuetzingii	-	-	-	-	-	-
Jaaginema	1	21	6	7	51	5
Komvophoron schmidlei	-	1	-	-	-	-
Lepocinclis	-	5	-	-	-	-
Leptolyngbya	-	-	-	-	-	-
Lyngbya martensiana	-	-	-	-	-	-
Merismopedia glauca	-	-	-	-	-	-
Merismopedia warmingiana	-	2	-	-	-	-
Micrasterias	-	-	1	-	-	-
Microcystis	-	-	-	1	-	-
Microspora	-	-	-	-	-	-
Microthamnion kuetzingianum	-	-	-	-	-	-
Mougeotia	-	4	-	-	-	-
Oedogonium	-	-	-	-	-	-
Oocystis	-	-	-	-	-	-
Ophiocytium capitatum	-	-	-	-	-	-
Oscillatoria	-	-	-	-	1	-
Oscillatoria acutissima	-	-	-	-	-	-
Oscillatoria limosa	-	-	-	-	-	-
Oscillatoria princeps	-	-	-	-	-	-
Oscillatoria tenuis	-	-	-	-	-	3
Phacus	-	1	-	-	-	-
Phacus megalopsis	-	-	-	-	-	-
Phormidium	-	-	-	-	-	-
Phormidium aerugineo-caeruleum	-	-	-	-	-	-
Planktolyngbya	1	2	-	-	5	-
Planktosphaeria	-	-	-	-	-	-
Planktothrix	-	-	6	-	1	-
Pleurocapsa	-	-	-	-	-	-
Protococcus	-	-	-	-	-	-
Pseudanabaena	3	15	-	-	-	-
Pseudanabaena mucicola	-	-	-	-	-	-
Rhabdogloea	-	2	-	-	-	-
Scenedesmus	-	2	-	-	1	-
Scenedesmus abundans	-	-	-	-	-	-
Scenedesmus acuminatus	-	-	-	-	-	-
Scenedesmus bicaudatus	-	-	-	-	-	-
Scenedesmus bijuga	-	-	-	-	1	-
Scenedesmus dimorphus	-	2	-	-	-	-
Scenedesmus quadricauda	-	1	-	-	1	-
Schizothrix calcicola	-	3	-	-	13	40
Scytonema	-	-	-	1	-	-
Selenastrum	-	-	-	1	2	-
Spirogyra	-	3	-	-	-	-

As Entered / STORET station ->	PUT308GS	GLA630GS	BAK210GS	BAK210GS	27311650820 8152	LEV502GS
Sample date ->	12/13/2005	1/23/2006	11/1/2005	3/20/2006	6/21/2006	2/21/2007
	Sampleid 52912/PerID 20031 (#	Sampleid 53951/PerID 20328 (#	Sampleid 47698/PerID 20630 (#	Sampleid 53732/PerID 20850 (#	Sampleid 52834/PerID 21128 (#	Sampleid 57322/PerID 21789 (#
Taxon Name / SampleID/PerID ->	counted)	counted)	counted)	counted)	counted)	counted)
Staurastrum	-	-	-	-	-	-
Staurastrum illusum illusum	-	-	-	-	-	-
Staurastrum lapponicum lapponicum	-	-	-	-	-	-
Stigeoclonium	-	-	-	-	-	-
Synechococcus	-	-	-	-	-	-
Synechocystis	1	17	9	12	15	-
Tetraedron minimum	-	1	-	-	-	-
Tetraedron trigonum	-	-	-	-	-	-
Trachelomonas	-	4	1	-	-	-
Ulothrix	-	-	-	-	-	-

As Entered / STORET station ->	3513	PUT308GS	NUTREF001	LIB104LV	23010464	CLA246GS
Sample date ->	2/20/2007	2/26/2007	6/10/2008	6/10/2008	5/7/2008	5/28/2008
	Sampleid 57324/PerID 21790 (#	Sampleid 57431/PerID 21831 (#	Sampleid 65029/PerID 24392 (#	Sampleid 65025/PerID 24393 (#	Sampleid 64546/PerID 24394 (#	Sampleid 65250/PerID 24411 (#
Taxon Name / SampleID/PerID ->	counted)	counted)	counted)	counted)	counted)	counted)
Actinotaenium	-	-	-	-	-	-
Actinotaenium perminutum	-	-	-	-	-	-
Anabaena	-	-	-	-	-	-
Anabaena subcylindrica	-	-	-	-	-	-
Ankistrodesmus	-	-	-	-	-	-
Ankistrodesmus falcatus	-	1	-	-	-	1
Aphanocapsa	-	1	-	-	-	1
Bacillariophyta	274	260	255	297	217	290
Batrachospermum	-	-	-	-	-	-
Bumilleriopsis brevis	-	-	-	-	-	-
Calothrix	-	-	-	-	-	-
Chlamydomonas	-	2	-	-	-	1
Chlorella	-	5	-	-	3	3
Chlorella vulgaris	-	-	-	-	-	-
Chlorococcum	1	-	-	-	-	-
Chlorococcum humicola	-	-	-	-	-	-
Chlorogonium	-	-	-	-	-	-
Chlorophyceae	-	-	-	-	-	-
Chroococcus	-	-	-	-	-	-
Chroococcus minutus	2	-	-	-	-	-
Chroococcus turgidus	-	-	-	-	-	-
Chrysophyceae	-	-	-	-	-	-
Cladophora	-	-	-	-	-	-
Closterium	-	-	-	-	-	-
Closterium gracile gracile	-	-	-	-	-	-
Closterium lanceolatum lanceolatum	-	-	-	-	-	-
Closterium moniliferum moniliferum	-	-	-	-	-	-
Closterium parvulum obtusum	-	-	-	-	-	-
Closterium peracerosum	-	-	-	-	-	-
Closterium venus venus	-	-	-	-	-	-
Cosmarium	-	2	1	-	-	-
Crucigenia tetrapedia	-	-	-	-	-	-
Cryptomonas	-	-	-	-	-	2
Cyanobium	-	-	-	-	-	-
Cyanobium parvum	3	1	-	-	-	-
Cyanobium plancticum	-	-	-	-	-	-
Cyanophyceae	-	-	-	-	-	-
Cyanothece	-	-	-	-	-	-
Cyanothece aeruginosa	-	-	-	-	-	-
Derepyxis	-	-	-	-	-	-
Desmidium	-	-	-	-	-	-
Dinobryon	-	-	-	-	-	-
Euglena	-	1	-	-	-	1
Euglena polymorpha	-	-	-	-	1	-
Euglenophyceae	-	-	-	-	-	-
Geitlerinema	-	-	-	-	-	-
Geitlerinema acutissimum	-	-	-	-	-	-
Glenodinium	-	-	-	-	-	1

As Entered / STORET station ->	3513	PUT308GS	NUTREF001	LIB104LV	23010464	CLA246GS
Sample date ->	2/20/2007	2/26/2007	6/10/2008	6/10/2008	5/7/2008	5/28/2008
Taxon Name / SampleID/PerID ->	Sampleid 57324/PerID 21790 (# counted)	Sampleid 57431/PerID 21831 (# counted)	Sampleid 65029/PerID 24392 (# counted)	Sampleid 65025/PerID 24393 (# counted)	Sampleid 64546/PerID 24394 (# counted)	Sampleid 65250/PerID 24411 (# counted)
Gomontiella	-	-	-	-	-	-
Hapalosiphon	-	-	-	-	-	-
Hapalosiphon hibernicus	-	-	-	-	-	-
Heteroleibleinia	-	-	-	-	-	-
Heteroleibleinia kuetzingii	-	-	11	-	-	-
Jaaginema	4	9	1	3	17	-
Komvophoron schmidlei	1	-	-	-	2	-
Lepocinclis	-	-	-	-	-	-
Leptolyngbya	-	-	-	-	-	-
Lyngbya martensiana	1	-	-	-	-	-
Merismopedia glauca	-	-	-	-	-	-
Merismopedia warmingiana	-	-	-	-	-	-
Micrasterias	-	-	-	-	-	-
Microcystis	1	-	-	-	-	-
Microspora	-	-	-	-	-	-
Microthamnion kuetzingianum	-	3	-	-	-	-
Mougeotia	-	-	-	-	-	-
Oedogonium	1	-	-	-	-	-
Oocystis	-	-	-	-	-	-
Ophiocytium capitatum	-	-	-	-	-	-
Oscillatoria	-	-	-	-	-	-
Oscillatoria acutissima	-	1	-	-	-	-
Oscillatoria limosa	1	-	-	-	-	-
Oscillatoria princeps	-	-	-	-	-	-
Oscillatoria tenuis	7	-	-	-	-	-
Phacus	-	-	-	-	-	-
Phacus megalopsis	-	-	-	-	-	-
Phormidium	-	-	-	-	-	-
Phormidium aerugineo-caeruleum	-	-	-	-	-	-
Planktolyngbya	3	-	-	-	-	-
Planktosphaeria	-	1	-	-	-	-
Planktothrix	-	3	-	-	3	-
Pleurocapsa	-	-	-	-	-	-
Protococcus	-	-	-	-	-	-
Pseudanabaena	3	-	-	-	4	-
Pseudanabaena mucicola	-	-	-	-	-	-
Rhabdogloea	-	-	-	-	-	-
Scenedesmus	-	-	-	-	-	-
Scenedesmus abundans	-	-	-	-	-	-
Scenedesmus acuminatus	-	-	-	-	-	-
Scenedesmus bicaudatus	-	-	-	-	-	-
Scenedesmus bijuga	-	-	-	-	-	-
Scenedesmus dimorphus	-	-	-	-	-	-
Scenedesmus quadricauda	-	-	-	-	-	-
Schizothrix calcicola	-	-	32	-	48	-
Scytonema	-	-	-	-	-	-
Selenastrum	-	2	-	-	-	-
Spirogyra	-	-	-	-	-	-

As Entered / STORET station ->	3513	PUT308GS	NUTREF001	LIB104LV	23010464	CLA246GS
Sample date ->	2/20/2007	2/26/2007	6/10/2008	6/10/2008	5/7/2008	5/28/2008
Taxon Name / SampleID/PerID ->	Sampleid 57324/PerID 21790 (# counted)	Sampleid 57431/PerID 21831 (# counted)	Sampleid 65029/PerID 24392 (# counted)	Sampleid 65025/PerID 24393 (# counted)	Sampleid 64546/PerID 24394 (# counted)	Sampleid 65250/PerID 24411 (# counted)
Staurastrum	-	1	-	-	-	-
Staurastrum illusum illusum	-	-	-	-	-	-
Staurastrum lapponicum lapponicum	-	-	-	-	-	-
Stigeoclonium	-	-	-	-	-	-
Synechococcus	-	-	-	-	-	-
Synechocystis	-	7	-	-	6	-
Tetraedron minimum	-	-	-	-	-	-
Tetraedron trigonum	-	-	-	-	-	-
Trachelomonas	-	-	-	-	-	-
Ulothrix	-	-	-	-	-	-

As Entered / STORET station ->	22020093	GAD106GS	BAK208GS	3545	3546	3549
Sample date ->	6/13/2008	6/13/2008	6/18/2008	7/9/2008	7/9/2008	7/10/2008
	Sampleid 65026/PerID 24416 (#	Sampleid 65028/PerID 24417 (#	Sampleid 65306/PerID 24430 (#	Sampleid 65291/PerID 24441 (#	Sampleid 65296/PerID 24444 (#	Sampleid 65316/PerID 24445 (#
Taxon Name / SampleID/PerID ->	counted)	counted)	counted)	counted)	counted)	counted)
Actinotaenium	-	-	-	-	-	-
Actinotaenium perminutum	-	-	-	-	-	-
Anabaena	-	-	-	-	-	-
Anabaena subcylindrica	-	-	-	-	-	-
Ankistrodesmus	-	-	-	-	-	-
Ankistrodesmus falcatus	-	-	-	-	1	-
Aphanocapsa	-	-	-	-	1	-
Bacillariophyta	279	294	272	268	272	255
Batrachospermum	-	-	-	20	-	-
Bumilleriopsis brevis	-	-	-	-	-	-
Calothrix	-	-	-	-	-	-
Chlamydomonas	-	-	4	2	-	-
Chlorella	-	-	3	2	3	3
Chlorella vulgaris	-	-	-	-	-	-
Chlorococcum	-	-	-	-	-	-
Chlorococcum humicola	1	-	-	-	-	-
Chlorogonium	-	-	-	-	-	-
Chlorophyceae	-	-	-	-	-	-
Chroococcus	-	-	-	-	-	-
Chroococcus minutus	-	-	-	-	-	-
Chroococcus turgidus	-	-	-	-	-	1
Chrysophyceae	-	-	-	-	-	-
Cladophora	-	-	3	-	-	-
Closterium	-	-	-	1	-	-
Closterium gracile gracile	-	-	-	-	-	-
Closterium lanceolatum lanceolatum	-	-	-	-	-	-
Closterium moniliferum moniliferum	-	-	-	-	-	-
Closterium parvulum obtusum	-	-	-	1	-	-
Closterium peracerosum	-	-	-	-	-	-
Closterium venus venus	-	-	-	-	-	-
Cosmarium	-	-	-	-	-	1
Crucigenia tetrapedia	-	-	-	-	-	-
Cryptomonas	-	-	-	-	-	-
Cyanobium	-	-	-	-	-	-
Cyanobium parvum	-	-	-	-	1	-
Cyanobium plancticum	-	-	-	-	-	-
Cyanophyceae	-	-	-	-	-	-
Cyanothece	-	-	-	-	-	1
Cyanothece aeruginosa	-	-	-	-	2	-
Derepyxis	-	-	-	-	-	-
Desmidium	-	-	-	1	-	-
Dinobryon	-	-	-	-	-	-
Euglena	-	-	-	-	-	-
Euglena polymorpha	-	-	-	-	-	-
Euglenophyceae	-	-	-	-	-	-
Geitlerinema	-	1	-	-	-	-
Geitlerinema acutissimum	-	-	-	-	-	-
Glenodinium	-	-	-	-	-	-

As Entered / STORET station ->	22020093	GAD106GS	BAK208GS	3545	3546	3549
Sample date ->	6/13/2008	6/13/2008	6/18/2008	7/9/2008	7/9/2008	7/10/2008
	Sampleid 65026/PerID 24416 (#	Sampleid 65028/PerID 24417 (#	Sampleid 65306/PerID 24430 (#	Sampleid 65291/PerID 24441 (#	Sampleid 65296/PerID 24444 (#	Sampleid 65316/PerID 24445 (#
Taxon Name / SampleID/PerID ->	counted)	counted)	counted)	counted)	counted)	counted)
Gomontiella	-	1	-	-	-	-
Hapalosiphon	-	-	-	-	-	-
Hapalosiphon hibernicus	-	-	-	-	-	-
Heteroleibleinia	-	-	-	-	-	-
Heteroleibleinia kuetzingii	-	-	-	-	-	-
Jaaginema	4	-	1	2	4	-
Komvophoron schmidlei	-	-	-	-	-	-
Lepocinclis	-	-	-	-	-	-
Leptolyngbya	-	-	-	-	-	-
Lyngbya martensiana	-	-	-	-	-	1
Merismopedia glauca	-	-	-	-	-	-
Merismopedia warmingiana	-	-	-	-	-	-
Micrasterias	-	-	-	-	-	-
Microcystis	-	-	-	-	-	-
Microspora	-	-	-	-	-	-
Microthamnion kuetzingianum	-	-	-	-	-	-
Mougeotia	-	-	14	-	-	-
Oedogonium	-	-	-	-	-	-
Oocystis	-	-	-	-	-	-
Ophiocytium capitatum	-	-	-	-	-	-
Oscillatoria	-	-	-	-	-	-
Oscillatoria acutissima	-	-	-	-	-	-
Oscillatoria limosa	-	-	-	-	-	-
Oscillatoria princeps	-	-	-	-	-	-
Oscillatoria tenuis	-	-	-	-	-	6
Phacus	-	-	-	-	-	-
Phacus megalopsis	-	-	-	-	-	-
Phormidium	-	-	-	-	-	8
Phormidium aerugineo-caeruleum	-	-	-	-	-	-
Planktolyngbya	2	4	-	1	5	-
Planktosphaeria	-	-	-	-	-	-
Planktothrix	4	-	-	1	1	-
Pleurocapsa	-	-	-	-	-	-
Protococcus	-	-	-	-	-	9
Pseudanabaena	-	-	-	-	1	-
Pseudanabaena mucicola	-	-	-	-	-	-
Rhabdogloea	-	-	-	-	-	-
Scenedesmus	-	-	-	-	-	-
Scenedesmus abundans	-	-	-	-	-	-
Scenedesmus acuminatus	-	-	-	-	1	-
Scenedesmus bicaudatus	2	-	-	-	-	-
Scenedesmus bijuga	1	-	-	-	-	-
Scenedesmus dimorphus	-	-	-	-	-	-
Scenedesmus quadricauda	2	-	-	-	1	5
Schizothrix calcicola	1	-	-	-	2	6
Scytonema	-	-	-	-	-	-
Selenastrum	-	-	-	-	-	-
Spirogyra	-	-	-	-	-	-

As Entered / STORET station ->	22020093	GAD106GS	BAK208GS	3545	3546	3549
Sample date ->	6/13/2008	6/13/2008	6/18/2008	7/9/2008	7/9/2008	7/10/2008
	Sampleid 65026/PerID 24416 (#	Sampleid 65028/PerID 24417 (#	Sampleid 65306/PerID 24430 (#	Sampleid 65291/PerID 24441 (#	Sampleid 65296/PerID 24444 (#	Sampleid 65316/PerID 24445 (#
Taxon Name / SampleID/PerID ->	counted)	counted)	counted)	counted)	counted)	counted)
Staurastrum	-	-	-	-	-	-
Staurastrum illusum illusum	-	-	-	-	-	-
Staurastrum lapponicum lapponicum	-	-	-	-	-	-
Stigeoclonium	-	-	3	-	-	-
Synechococcus	-	-	-	-	-	-
Synechocystis	4	-	-	3	7	5
Tetraedron minimum	-	-	-	-	-	-
Tetraedron trigonum	-	-	-	-	-	-
Trachelomonas	-	-	-	1	-	-
Ulothrix	-	-	-	-	-	-

As Entered / STORET station ->	32030023	21010008	WAK158LR	22050083	22050040	23010464
Sample date ->	7/24/2008	7/16/2008	6/19/2008	8/12/2008	8/12/2008	10/8/2008
Taxon Name / SampleID/PerID ->	Sampleid 65292/PerID 24452 (# counted)	Sampleid 65293/PerID 24458 (# counted)	Sampleid 65414/PerID 24471 (# counted)	Sampleid 65379/PerID 24479 (# counted)	Sampleid 65382/PerID 24482 (# counted)	Sampleid 65567/PerID 24491 (# counted)
Actinotaenium	-	-	-	-	-	-
Actinotaenium perminutum	4	-	-	-	-	-
Anabaena	-	1	40	-	-	-
Anabaena subcylindrica	-	-	-	62	-	-
Ankistrodesmus	-	-	-	-	-	-
Ankistrodesmus falcatus	-	-	-	-	-	-
Aphanocapsa	-	2	-	-	1	-
Bacillariophyta	270	257	245	181	239	258
Batrachospermum	-	-	-	-	-	-
Bumilleriopsis brevis	-	-	-	-	-	-
Calothrix	-	-	-	1	-	-
Chlamydomonas	-	-	-	-	-	-
Chlorella	2	1	3	7	-	-
Chlorella vulgaris	-	-	-	-	-	1
Chlorococcum	-	-	-	-	-	-
Chlorococcum humicola	-	-	-	1	4	1
Chlorogonium	-	-	-	-	-	-
Chlorophyceae	-	-	-	-	-	-
Chroococcus	-	-	-	-	-	-
Chroococcus minutus	-	-	-	-	-	-
Chroococcus turgidus	-	-	1	-	-	-
Chrysophyceae	-	-	-	-	-	-
Cladophora	-	-	-	-	-	-
Closterium	-	-	2	-	-	1
Closterium gracile gracile	-	-	-	-	-	-
Closterium lanceolatum lanceolatum	-	-	-	-	-	1
Closterium moniliferum moniliferum	-	-	-	-	-	-
Closterium parvulum obtusum	-	-	-	-	-	-
Closterium peracerosum	-	-	-	-	-	1
Closterium venus venus	3	-	-	-	-	-
Cosmarium	2	1	1	-	-	-
Crucigenia tetrapedia	-	-	-	-	-	-
Cryptomonas	-	-	-	-	-	-
Cyanobium	-	-	-	-	-	-
Cyanobium parvum	-	-	-	-	-	7
Cyanobium plancticum	-	-	-	-	-	-
Cyanophyceae	-	-	-	-	-	-
Cyanothece	-	-	-	-	-	-
Cyanothece aeruginosa	-	-	-	-	-	-
Derepyxis	-	-	-	-	-	-
Desmidium	-	-	-	-	-	-
Dinobryon	-	-	-	-	-	-
Euglena	1	-	-	-	-	-
Euglena polymorpha	-	-	-	-	-	-
Euglenophyceae	-	-	-	-	-	-
Geitlerinema	-	-	-	-	-	-
Geitlerinema acutissimum	-	-	-	-	3	-
Glenodinium	-	-	-	-	-	-

As Entered / STORET station ->	32030023	21010008	WAK158LR	22050083	22050040	23010464
Sample date ->	7/24/2008	7/16/2008	6/19/2008	8/12/2008	8/12/2008	10/8/2008
	Sampleid 65292/PerID 24452 (#	Sampleid 65293/PerID 24458 (#	Sampleid 65414/PerID 24471 (#	Sampleid 65379/PerID 24479 (#	Sampleid 65382/PerID 24482 (#	Sampleid 65567/PerID 24491 (#
Taxon Name / SampleID/PerID ->	counted)	counted)	counted)	counted)	counted)	counted)
Gomontiella	-	-	-	-	-	-
Hapalosiphon	-	-	-	-	-	-
Hapalosiphon hibernicus	-	-	-	-	-	-
Heteroleibleinia	-	-	-	-	-	-
Heteroleibleinia kuetzingii	-	-	-	-	-	-
Jaaginema	3	13	-	13	11	12
Komvophoron schmidlei	-	2	-	-	-	1
Lepocinclis	1	-	-	-	-	2
Leptolyngbya	-	-	-	-	-	-
Lyngbya martensiana	-	-	-	-	-	-
Merismopedia glauca	-	-	-	-	-	-
Merismopedia warmingiana	-	-	-	-	-	-
Micrasterias	-	-	-	-	-	-
Microcystis	-	-	-	-	-	-
Microspora	-	-	-	-	-	-
Microthamnion kuetzingianum	2	-	-	-	-	-
Mougeotia	2	-	4	-	-	-
Oedogonium	1	-	-	1	6	-
Oocystis	-	-	-	2	-	-
Ophiocytium capitatum	-	-	-	-	-	-
Oscillatoria	-	-	-	-	-	1
Oscillatoria acutissima	-	-	-	-	-	-
Oscillatoria limosa	-	-	-	-	3	-
Oscillatoria princeps	-	-	-	-	9	-
Oscillatoria tenuis	1	1	-	-	3	-
Phacus	-	-	-	-	-	-
Phacus megalopsis	-	-	-	-	-	1
Phormidium	-	-	-	-	-	3
Phormidium aerugineo-caeruleum	-	-	-	-	3	-
Planktolyngbya	1	3	-	-	8	-
Planktosphaeria	-	-	-	-	-	-
Planktothrix	1	1	-	4	2	-
Pleurocapsa	-	-	-	-	-	-
Protococcus	-	-	-	-	-	-
Pseudanabaena	-	2	-	4	-	3
Pseudanabaena mucicola	-	-	-	-	-	-
Rhabdogloea	-	-	-	-	-	-
Scenedesmus	-	-	-	-	-	-
Scenedesmus abundans	-	-	-	-	-	-
Scenedesmus acuminatus	-	-	-	-	-	-
Scenedesmus bicaudatus	-	-	-	-	-	-
Scenedesmus bijuga	-	-	1	-	-	1
Scenedesmus dimorphus	-	3	-	-	-	3
Scenedesmus quadricauda	-	1	-	-	1	-
Schizothrix calcicola	-	-	-	23	4	7
Scytonema	-	-	-	-	-	-
Selenastrum	-	-	-	-	-	-
Spirogyra	-	1	-	-	-	-

As Entered / STORET station ->	32030023	21010008	WAK158LR	22050083	22050040	23010464
Sample date ->	7/24/2008	7/16/2008	6/19/2008	8/12/2008	8/12/2008	10/8/2008
	Sampleid 65292/PerID 24452 (#	Sampleid 65293/PerID 24458 (#	Sampleid 65414/PerID 24471 (#	Sampleid 65379/PerID 24479 (#	Sampleid 65382/PerID 24482 (#	Sampleid 65567/PerID 24491 (#
Taxon Name / SampleID/PerID ->	counted)	counted)	counted)	counted)	counted)	counted)
Staurastrum	-	-	-	-	-	-
Staurastrum illusum illusum	-	-	-	-	-	-
Staurastrum lapponicum lapponicum	1	-	-	-	-	-
Stigeoclonium	-	-	-	-	2	-
Synechococcus	-	-	-	-	-	-
Synechocystis	5	16	3	2	1	1
Tetraedron minimum	-	-	-	-	-	-
Tetraedron trigonum	-	-	-	-	-	-
Trachelomonas	1	1	-	-	-	-
Ulothrix	-	2	-	-	-	-

As Entered / STORET station ->	UNI234LV	CLA246GS	WAK158LR	19010006	CLA254LR	CLA243LV
Sample date ->	10/16/2008	10/28/2008	11/13/2008	11/12/2008	11/6/2008	11/6/2008
Taxon Name / SampleID/PerID ->	Sampleid 65637/PerID 24513 (# counted)	Sampleid 65636/PerID 24518 (# counted)	Sampleid 65715/PerID 24541 (# counted)	Sampleid 65731/PerID 24544 (# counted)	Sampleid 65736/PerID 24548 (# counted)	Sampleid 65737/PerID 24549 (# counted)
Actinotaenium	-	-	-	-	-	-
Actinotaenium perminutum	-	-	-	-	-	-
Anabaena	-	-	9	-	-	-
Anabaena subcylindrica	-	-	-	-	-	-
Ankistrodesmus	-	-	-	-	-	-
Ankistrodesmus falcatus	-	-	-	-	-	-
Aphanocapsa	-	1	-	1	-	-
Bacillariophyta	68	282	225	280	284	294
Batrachospermum	-	-	-	-	-	-
Bumilleriopsis brevis	-	-	-	-	-	1
Calothrix	-	-	-	-	-	-
Chlamydomonas	-	-	-	2	-	-
Chlorella	-	3	5	1	-	2
Chlorella vulgaris	-	-	-	-	-	-
Chlorococcum	-	-	-	-	2	-
Chlorococcum humicola	-	-	-	3	-	-
Chlorogonium	-	-	-	-	-	-
Chlorophyceae	-	-	-	-	-	-
Chroococcus	-	-	1	-	-	-
Chroococcus minutus	-	-	-	-	-	-
Chroococcus turgidus	-	-	-	-	-	-
Chrysophyceae	-	-	-	-	-	-
Cladophora	-	-	-	-	-	-
Closterium	-	-	-	-	-	-
Closterium gracile gracile	-	-	-	-	-	-
Closterium lanceolatum lanceolatum	-	-	-	-	-	-
Closterium moniliferum moniliferum	-	-	1	-	-	-
Closterium parvulum obtusum	-	-	-	-	-	-
Closterium peracerosum	-	-	-	-	-	-
Closterium venus venus	-	-	2	-	1	-
Cosmarium	-	-	-	-	-	1
Crucigenia tetrapedia	-	-	-	-	-	-
Cryptomonas	-	-	-	-	-	-
Cyanobium	-	-	-	-	-	-
Cyanobium parvum	-	-	1	-	-	-
Cyanobium plancticum	-	-	-	-	-	-
Cyanophyceae	-	-	-	-	-	-
Cyanothece	-	-	-	-	-	-
Cyanothece aeruginosa	-	-	-	-	-	-
Derepyxis	-	-	-	-	-	-
Desmidium	-	-	-	-	-	-
Dinobryon	-	-	-	-	-	-
Euglena	-	-	-	-	-	-
Euglena polymorpha	-	-	-	-	-	-
Euglenophyceae	-	-	-	-	-	-
Geitlerinema	-	-	-	-	-	-
Geitlerinema acutissimum	-	-	-	-	-	-
Glenodinium	-	-	-	-	-	-

As Entered / STORET station ->	UNI234LV	CLA246GS	WAK158LR	19010006	CLA254LR	CLA243LV
Sample date ->	10/16/2008	10/28/2008	11/13/2008	11/12/2008	11/6/2008	11/6/2008
Taxon Name / SampleID/PerID ->	Sampleid 65637/PerID 24513 (# counted)	Sampleid 65636/PerID 24518 (# counted)	Sampleid 65715/PerID 24541 (# counted)	Sampleid 65731/PerID 24544 (# counted)	Sampleid 65736/PerID 24548 (# counted)	Sampleid 65737/PerID 24549 (# counted)
Gomontiella	-	-	-	-	-	-
Hapalosiphon	-	-	-	-	-	-
Hapalosiphon hibernicus	-	-	-	-	-	-
Heteroleibleinia	-	-	-	-	-	-
Heteroleibleinia kuetzingii	-	-	-	-	-	-
Jaaginema	1	4	16	3	3	1
Komvophoron schmidlei	-	-	2	-	-	-
Lepocinclis	-	-	-	-	-	-
Leptolyngbya	-	-	-	-	-	-
Lyngbya martensiana	-	-	-	-	-	-
Merismopedia glauca	-	-	-	-	-	-
Merismopedia warmingiana	-	-	-	-	-	-
Micrasterias	-	-	-	-	-	-
Microcystis	-	-	-	-	-	-
Microspora	-	-	-	-	-	-
Microthamnion kuetzingianum	-	-	-	-	-	-
Mougeotia	-	4	1	-	-	-
Oedogonium	2	-	-	-	-	-
Oocystis	-	-	-	-	-	-
Ophiocytium capitatum	-	-	-	-	-	1
Oscillatoria	-	-	-	-	-	-
Oscillatoria acutissima	-	-	-	-	-	-
Oscillatoria limosa	-	-	-	-	-	-
Oscillatoria princeps	-	-	-	-	-	-
Oscillatoria tenuis	-	-	-	-	-	-
Phacus	-	2	-	1	-	-
Phacus megalopsis	-	-	-	-	-	-
Phormidium	-	-	-	-	-	-
Phormidium aerugineo-caeruleum	-	-	-	-	-	-
Planktolyngbya	-	3	9	-	-	-
Planktosphaeria	-	-	-	-	-	-
Planktothrix	-	-	-	-	-	-
Pleurocapsa	-	-	-	-	-	-
Protococcus	-	-	-	-	-	-
Pseudanabaena	-	-	4	-	-	-
Pseudanabaena mucicola	-	-	-	-	-	-
Rhabdogloea	-	-	-	-	-	-
Scenedesmus	-	-	1	-	-	-
Scenedesmus abundans	-	-	-	2	-	-
Scenedesmus acuminatus	-	-	-	-	-	-
Scenedesmus bicaudatus	-	-	-	-	-	-
Scenedesmus bijuga	-	-	-	2	-	-
Scenedesmus dimorphus	-	-	-	-	-	-
Scenedesmus quadricauda	-	-	-	2	-	-
Schizothrix calcicola	-	-	20	-	9	-
Scytonema	-	-	-	-	-	-
Selenastrum	-	-	-	-	-	-
Spirogyra	-	-	-	-	-	-

As Entered / STORET station ->	UNI234LV	CLA246GS	WAK158LR	19010006	CLA254LR	CLA243LV
Sample date ->	10/16/2008	10/28/2008	11/13/2008	11/12/2008	11/6/2008	11/6/2008
Taxon Name / SampleID/PerID ->	Sampleid 65637/PerID 24513 (# counted)	Sampleid 65636/PerID 24518 (# counted)	Sampleid 65715/PerID 24541 (# counted)	Sampleid 65731/PerID 24544 (# counted)	Sampleid 65736/PerID 24548 (# counted)	Sampleid 65737/PerID 24549 (# counted)
Staurastrum	-	-	1	-	-	-
Staurastrum illusum illusum	-	-	-	-	1	-
Staurastrum lapponicum lapponicum	-	-	-	-	-	-
Stigeoclonium	-	1	-	-	-	-
Synechococcus	-	-	-	-	-	-
Synechocystis	-	-	7	3	-	-
Tetraedron minimum	-	-	-	-	-	-
Tetraedron trigonum	-	-	-	-	-	-
Trachelomonas	-	-	-	-	-	-
Ulothrix	-	-	3	-	-	-

As Entered / STORET station ->	NUTREF001	GAD106GS	GLA630GS	24010002	27311650820 8152	22050083
Sample date ->	11/20/2008	11/20/2008	12/16/2008	12/17/2008	12/17/2008	1/14/2009
Taxon Name / SampleID/PerID ->	Sampleid 65739/PerID 24551 (# counted)	Sampleid 65741/PerID 24553 (# counted)	Sampleid 65891/PerID 24591 (# counted)	Sampleid 65900/PerID 24599 (# counted)	Sampleid 65907/PerID 24600 (# counted)	Sampleid 65931/PerID 24605 (# counted)
Actinotaenium	-	-	-	-	-	-
Actinotaenium perminutum	-	-	-	-	-	-
Anabaena	1	-	-	-	-	-
Anabaena subcylindrica	-	-	-	-	-	-
Ankistrodesmus	-	-	-	-	-	-
Ankistrodesmus falcatus	-	-	-	-	-	-
Aphanocapsa	-	-	-	-	-	5
Bacillariophyta	171	264	274	270	228	201
Batrachospermum	-	-	-	-	-	-
Bumilleriopsis brevis	-	-	-	-	-	-
Calothrix	-	-	-	-	-	2
Chlamydomonas	3	3	-	-	-	2
Chlorella	2	1	-	-	-	22
Chlorella vulgaris	-	-	-	-	-	-
Chlorococcum	-	-	-	-	-	5
Chlorococcum humicola	-	-	-	-	-	-
Chlorogonium	-	-	-	-	-	-
Chlorophyceae	-	-	-	-	-	-
Chroococcus	-	-	-	-	-	-
Chroococcus minutus	-	-	-	-	-	-
Chroococcus turgidus	-	-	-	-	-	-
Chrysophyceae	-	-	-	-	-	-
Cladophora	-	-	-	-	-	-
Closterium	-	1	-	-	-	-
Closterium gracile gracile	-	-	-	-	-	-
Closterium lanceolatum lanceolatum	-	-	-	-	-	-
Closterium moniliferum moniliferum	-	-	-	-	-	-
Closterium parvulum obtusum	-	-	-	-	-	-
Closterium peracerosum	-	-	-	-	-	-
Closterium venus venus	-	-	-	-	-	-
Cosmarium	-	-	-	-	-	-
Crucigenia tetrapedia	-	-	-	-	-	-
Cryptomonas	-	-	-	-	-	1
Cyanobium	-	-	-	-	-	1
Cyanobium parvum	-	4	-	-	-	1
Cyanobium plancticum	-	-	-	-	-	-
Cyanophyceae	-	-	-	-	-	1
Cyanothece	-	-	-	-	-	-
Cyanothece aeruginosa	-	-	-	-	1	-
Derepyxis	-	-	-	-	-	1
Desmidium	-	-	-	-	-	-
Dinobryon	-	-	-	-	-	2
Euglena	-	-	-	-	-	-
Euglena polymorpha	-	-	-	-	-	-
Euglenophyceae	-	-	-	-	-	-
Geitlerinema	-	-	-	-	-	-
Geitlerinema acutissimum	-	-	-	-	-	-
Glenodinium	-	-	-	-	-	-

As Entered / STORET station ->	NUTREF001	GAD106GS	GLA630GS	24010002	27311650820 8152	22050083
Sample date ->	11/20/2008	11/20/2008	12/16/2008	12/17/2008	12/17/2008	1/14/2009
Taxon Name / SampleID/PerID ->	Sampleid 65739/PerID 24551 (# counted)	Sampleid 65741/PerID 24553 (# counted)	Sampleid 65891/PerID 24591 (# counted)	Sampleid 65900/PerID 24599 (# counted)	Sampleid 65907/PerID 24600 (# counted)	Sampleid 65931/PerID 24605 (# counted)
Gomontiella	-	-	-	-	-	-
Hapalosiphon	-	-	1	-	-	-
Hapalosiphon hibernicus	-	-	-	-	-	-
Heteroleibleinia	-	-	-	-	-	-
Heteroleibleinia kuetzingii	-	-	-	-	-	-
Jaaginema	4	9	3	15	3	1
Komvophoron schmidlei	-	-	-	-	-	-
Lepocinclis	-	-	-	-	-	-
Leptolyngbya	-	-	-	-	-	-
Lyngbya martensiana	-	-	-	-	-	-
Merismopedia glauca	-	-	-	-	-	-
Merismopedia warmingiana	-	-	-	-	-	-
Micrasterias	-	-	-	-	-	-
Microcystis	-	-	-	-	-	-
Microspora	-	-	-	-	-	9
Microthamnion kuetzingianum	-	-	-	-	-	-
Mougeotia	-	-	-	-	-	-
Oedogonium	-	-	-	-	-	1
Oocystis	-	-	-	-	-	-
Ophiocytium capitatum	-	-	-	-	-	-
Oscillatoria	-	-	-	-	-	-
Oscillatoria acutissima	-	-	-	-	-	-
Oscillatoria limosa	-	-	-	-	-	-
Oscillatoria princeps	-	-	-	-	-	-
Oscillatoria tenuis	-	-	-	8	-	-
Phacus	-	-	-	-	-	-
Phacus megalopsis	-	-	-	-	-	-
Phormidium	-	-	-	1	-	-
Phormidium aerugineo-caeruleum	-	-	-	-	-	-
Planktolyngbya	1	1	3	-	4	9
Planktosphaeria	-	-	-	-	-	-
Planktothrix	-	-	1	1	-	-
Pleurocapsa	-	1	-	-	-	-
Protococcus	-	-	-	-	-	-
Pseudanabaena	4	6	-	-	-	1
Pseudanabaena mucicola	1	-	-	-	-	-
Rhabdogloea	-	-	-	-	-	-
Scenedesmus	-	-	-	-	-	-
Scenedesmus abundans	-	-	-	-	-	-
Scenedesmus acuminatus	-	-	-	-	-	-
Scenedesmus bicaudatus	-	-	-	-	-	-
Scenedesmus bijuga	-	-	-	-	-	-
Scenedesmus dimorphus	-	-	-	-	-	-
Scenedesmus quadricauda	-	-	-	-	1	-
Schizothrix calcicola	7	3	18	3	63	7
Scytonema	-	-	-	-	-	-
Selenastrum	-	-	-	-	-	-
Spirogyra	-	-	-	-	-	-

As Entered / STORET station ->	NUTREF001	GAD106GS	GLA630GS	24010002	27311650820 8152	22050083
Sample date ->	11/20/2008	11/20/2008	12/16/2008	12/17/2008	12/17/2008	1/14/2009
Taxon Name / SampleID/PerID ->	Sampleid 65739/PerID 24551 (# counted)	Sampleid 65741/PerID 24553 (# counted)	Sampleid 65891/PerID 24591 (# counted)	Sampleid 65900/PerID 24599 (# counted)	Sampleid 65907/PerID 24600 (# counted)	Sampleid 65931/PerID 24605 (# counted)
Staurastrum	-	1	-	-	-	-
Staurastrum illusum illusum	-	-	-	-	-	-
Staurastrum lapponicum lapponicum	-	-	-	-	-	-
Stigeoclonium	-	-	-	-	-	5
Synechococcus	1	-	-	-	-	-
Synechocystis	-	6	-	-	-	21
Tetraedron minimum	-	-	-	-	-	-
Tetraedron trigonum	-	-	-	-	-	-
Trachelomonas	-	-	-	2	-	-
Ulothrix	-	-	-	-	-	-

As Entered / STORET station ->	22050040			
Sample date ->	1/14/2009			
Taxon Name / SampleID/PerID ->	Sampleid 65932/PerID 24606 (# counted)	Phylum	Class	Order
Actinotaenium	-	Chlorophycota	Chlorophyceae	Zygnematales
Actinotaenium perminutum	-	Chlorophycota	Chlorophyceae	Zygnematales
Anabaena	-	Cyanophycota	Cyanophyceae	Nostocales
Anabaena subcylindrica	-	Cyanophycota	Cyanophyceae	Nostocales
Ankistrodesmus	-	Chlorophycota	Chlorophyceae	Chlorococcales
Ankistrodesmus falcatus	-	Chlorophycota	Chlorophyceae	Chlorococcales
Aphanocapsa	4	Cyanophycota	Cyanophyceae	Chroococcales
Bacillariophyta	220	Bacillariophyta	Bacillariophyta	Bacillariophyta
Batrachospermum	-	Rhodophycota	Rhodophyceae	Nemaliales
Bumilleriopsis brevis	-	Xanthophyta	Xanthophyceae	Mischococcales
Calothrix	-	Cyanophycota	Cyanophyceae	Nostocales
Chlamydomonas	-	Chlorophycota	Chlorophyceae	Volvocales
Chlorella	15	Chlorophycota	Chlorophyceae	Chlorococcales
Chlorella vulgaris	-	Chlorophycota	Chlorophyceae	Chlorococcales
Chlorococcum	3	Chlorophycota	Chlorophyceae	Chlorococcales
Chlorococcum humicola	-	Chlorophycota	Chlorophyceae	Chlorococcales
Chlorogonium	-	Chlorophycota	Chlorophyceae	Volvocales
Chlorophyceae	1	Chlorophycota	Chlorophyceae	Chlorophyceae
Chroococcus	-	Cyanophycota	Cyanophyceae	Chroococcales
Chroococcus minutus	1	Cyanophycota	Cyanophyceae	Chroococcales
Chroococcus turgidus	-	Cyanophycota	Cyanophyceae	Chroococcales
Chrysophyceae	-	Chrysophyta	Chrysophyceae	Chrysophyceae
Cladophora	-	Chlorophycota	Chlorophyceae	Cladophorales
Closterium	-	Chlorophycota	Chlorophyceae	Zygnematales
Closterium gracile gracile	-	Chlorophycota	Chlorophyceae	Zygnematales
Closterium lanceolatum lanceolatum	-	Chlorophycota	Chlorophyceae	Zygnematales
Closterium moniliferum moniliferum	-	Chlorophycota	Chlorophyceae	Zygnematales
Closterium parvulum obtusum	-	Chlorophycota	Chlorophyceae	Zygnematales
Closterium peracerosum	-	Chlorophycota	Chlorophyceae	Zygnematales
Closterium venus venus	-	Chlorophycota	Chlorophyceae	Zygnematales
Cosmarium	-	Chlorophycota	Chlorophyceae	Zygnematales
Crucigenia tetrapedia	-	Chlorophycota	Chlorophyceae	Chlorococcales
Cryptomonas	-	Cryptophycophyta	Cryptophyceae	Cryptomonadales
Cyanobium	-	Cyanophycota	Cyanophyceae	Chroococcales
Cyanobium parvum	8	Cyanophycota	Cyanophyceae	Chroococcales
Cyanobium plancticum	-	Cyanophycota	Cyanophyceae	Chroococcales
Cyanophyceae	-	Cyanophycota	Cyanophyceae	Cyanophyceae
Cyanothece	-	Cyanophycota	Cyanophyceae	Chroococcales
Cyanothece aeruginosa	-	Cyanophycota	Cyanophyceae	Chroococcales
Derepyxis	-	Haptophyta	Prymnesiophyceae	Isochrysidales
Desmidium	-	Chlorophycota	Chlorophyceae	Zygnematales
Dinobryon	-	Chrysophyta	Chrysophyceae	Ochromonadales
Euglena	-	Euglenophycota	Euglenophyceae	Euglenales
Euglena polymorpha	-	Euglenophycota	Euglenophyceae	Euglenales
Euglenophyceae	-	Euglenophycota	Euglenophyceae	Euglenophyceae
Geitlerinema	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Geitlerinema acutissimum	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Glenodinium	-	Pyrrophycophyta	Dinophyceae	Peridiniales

As Entered / STORET station ->	22050040			
Sample date ->	1/14/2009			
Taxon Name / SampleID/PerID ->	Sampleid 65932/PerID 24606 (# counted)	Phylum	Class	Order
Gomontiella	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Hapalosiphon	-	Cyanophycota	Cyanophyceae	Stigonematales
Hapalosiphon hibernicus	-	Cyanophycota	Cyanophyceae	Stigonematales
Heteroleibleinia	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Heteroleibleinia kuetzingii	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Jaaginema	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Komvophoron schmidlei	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Lepocinclis	-	Euglenophycota	Euglenophyceae	Euglenales
Leptolyngbya	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Lyngbya martensiana	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Merismopedia glauca	-	Cyanophycota	Cyanophyceae	Chroococcales
Merismopedia warmingiana	-	Cyanophycota	Cyanophyceae	Chroococcales
Micrasterias	-	Chlorophycota	Chlorophyceae	Zygnematales
Microcystis	-	Cyanophycota	Cyanophyceae	Chroococcales
Microspora	-	Chlorophycota	Chlorophyceae	Microsporales
Microthamnion kuetzingianum	1	Chlorophycota	Chlorophyceae	Chaetophorales
Mougeotia	-	Chlorophycota	Chlorophyceae	Zygnematales
Oedogonium	-	Chlorophycota	Chlorophyceae	Oedogoniales
Oocystis	-	Chlorophycota	Chlorophyceae	Chlorococcales
Ophiocytium capitatum	-	Xanthophyta	Xanthophyceae	Mischococcales
Oscillatoria	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Oscillatoria acutissima	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Oscillatoria limosa	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Oscillatoria princeps	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Oscillatoria tenuis	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Phacus	-	Euglenophycota	Euglenophyceae	Euglenales
Phacus megalopsis	-	Euglenophycota	Euglenophyceae	Euglenales
Phormidium	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Phormidium aerugineo-caeruleum	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Planktolyngbya	16	Cyanophycota	Cyanophyceae	Oscillatoriales
Planktosphaeria	-	Chlorophycota	Chlorophyceae	Chlorococcales
Planktothrix	2	Cyanophycota	Cyanophyceae	Oscillatoriales
Pleurocapsa	-	Cyanophycota	Cyanophyceae	Pleurocapsales
Protococcus	-	Chlorophycota	Chlorophyceae	Ctenocladales
Pseudanabaena	1	Cyanophycota	Cyanophyceae	Oscillatoriales
Pseudanabaena mucicola	-	Cyanophycota	Cyanophyceae	Oscillatoriales
Rhabdogloea	-	Cyanophycota	Cyanophyceae	Chroococcales
Scenedesmus	-	Chlorophycota	Chlorophyceae	Chlorococcales
Scenedesmus abundans	-	Chlorophycota	Chlorophyceae	Chlorococcales
Scenedesmus acuminatus	-	Chlorophycota	Chlorophyceae	Chlorococcales
Scenedesmus bicaudatus	-	Chlorophycota	Chlorophyceae	Chlorococcales
Scenedesmus bijuga	-	Chlorophycota	Chlorophyceae	Chlorococcales
Scenedesmus dimorphus	-	Chlorophycota	Chlorophyceae	Chlorococcales
Scenedesmus quadricauda	-	Chlorophycota	Chlorophyceae	Chlorococcales
Schizothrix calcicola	7	Cyanophycota	Cyanophyceae	Oscillatoriales
Scytonema	-	Cyanophycota	Cyanophyceae	Nostocales
Selenastrum	-	Chlorophycota	Chlorophyceae	Chlorococcales
Spirogyra	-	Chlorophycota	Chlorophyceae	Zygnematales

As Entered / STORET station ->	22050040			
Sample date ->	1/14/2009			
Taxon Name / SampleID/PerID ->	Sampleid 65932/PerID 24606 (# counted)	Phylum	Class	Order
Staurastrum	-	Chlorophycota	Chlorophyceae	Zygnematales
Staurastrum illusum illusum	-	Chlorophycota	Chlorophyceae	Zygnematales
Staurastrum lapponicum lapponicum	-	Chlorophycota	Chlorophyceae	Zygnematales
Stigeoclonium	1	Chlorophycota	Chlorophyceae	Chaetophorales
Synechococcus	-	Cyanophycota	Cyanophyceae	Chroococcales
Synechocystis	19	Cyanophycota	Cyanophyceae	Chroococcales
Tetraedron minimum	-	Chlorophycota	Chlorophyceae	Chlorococcales
Tetraedron trigonum	-	Chlorophycota	Chlorophyceae	Chlorococcales
Trachelomonas	1	Euglenophycota	Euglenophyceae	Euglenales
Ulothrix	-	Chlorophycota	Chlorophyceae	Ulotrichales

As Entered / STORET station ->
Sample date ->

Taxon Name / SampleID/PerID ->	Family	Genus	Current Name
Actinotaenium	Desmidiaceae	Actinotaenium	
Actinotaenium perminutum	Desmidiaceae	Actinotaenium	
Anabaena	Nostocaceae	Anabaena	
Anabaena subcylindrica	Nostocaceae	Anabaena	
Ankistrodesmus	Oocystaceae	Ankistrodesmus	
Ankistrodesmus falcatus	Oocystaceae	Ankistrodesmus	
Aphanocapsa	Merismopediaceae	Aphanocapsa	
Bacillariophyta	Bacillariophyta	Bacillariophyta	
Batrachospermum	Batrachospermaceae	Batrachospermum	
Bumilleriopsis brevis	Centritractaceae	Bumilleriopsis	
Calothrix	Rivulariaceae	Calothrix	
Chlamydomonas	Chlamydomonadaceae	Chlamydomonas	
Chlorella	Oocystaceae	Chlorella	
Chlorella vulgaris	Oocystaceae	Chlorella	
Chlorococcum	Chlorococcaceae	Chlorococcum	
Chlorococcum humicola	Chlorococcaceae	Chlorococcum	
Chlorogonium	Chlamydomonadaceae	Chlorogonium	
Chlorophyceae	Chlorophyceae	Chlorophyceae	
Chroococcus	Chroococcaceae	Chroococcus	
Chroococcus minutus	Chroococcaceae	Chroococcus	
Chroococcus turgidus	Chroococcaceae	Chroococcus	
Chrysophyceae	Chrysophyceae	Chrysophyceae	
Cladophora	Cladophoraceae	Cladophora	
Closterium	Desmidiaceae	Closterium	
Closterium gracile gracile	Desmidiaceae	Closterium	
Closterium lanceolatum lanceolatum	Desmidiaceae	Closterium	
Closterium moniliferum moniliferum	Desmidiaceae	Closterium	
Closterium parvulum obtusum	Desmidiaceae	Closterium	
Closterium peracerosum	Desmidiaceae	Closterium	
Closterium venus venus	Desmidiaceae	Closterium	
Cosmarium	Desmidiaceae	Cosmarium	
Crucigenia tetrapedia	Scenedesmaceae	Crucigenia	
Cryptomonas	Cryptomonadaceae	Cryptomonas	
Cyanobium	Synechococcaceae	Cyanobium	
Cyanobium parvum	Synechococcaceae	Cyanobium	
Cyanobium plancticum	Synechococcaceae	Cyanobium	
Cyanophyceae	Cyanophyceae	Cyanophyceae	
Cyanothece	Synechococcaceae	Cyanothece	
Cyanothece aeruginosa	Synechococcaceae	Cyanothece	
Derepyxis	Derepyxidaceae	Derepyxis	
Desmidium	Desmidiaceae	Desmidium	
Dinobryon	Dinobryaceae	Dinobryon	
Euglena	Euglenaceae	Euglena	
Euglena polymorpha	Euglenaceae	Euglena	
Euglenophyceae	Euglenophyceae	Euglenophyceae	
Geitlerinema	Pseudanabaenaceae	Geitlerinema	
Geitlerinema acutissimum	Pseudanabaenaceae	Geitlerinema	
Glenodinium	Glenodiniaceae	Glenodinium	

As Entered / STORET station ->
Sample date ->

Taxon Name / SampleID/PerID ->	Family	Genus	Current Name
Gomontiella	Gomontiellaceae	Gomontiella	
Hapalosiphon	Stigonemataceae	Hapalosiphon	
Hapalosiphon hibernicus	Stigonemataceae	Hapalosiphon	
Heteroleibleinia	Pseudanabaenaceae	Heteroleibleinia	
Heteroleibleinia kuetzingii	Pseudanabaenaceae	Heteroleibleinia	
Jaaginema	Pseudanabaenaceae	Jaaginema	
Komvophoron schmidlei	Borziaceae	Komvophoron	
Lepocinclis	Euglenaceae	Lepocinclis	
Leptolyngbya	Pseudanabaenaceae	Leptolyngbya	
Lyngbya martensiana	Oscillatoriaceae	Lyngbya	
Merismopedia glauca	Merismopediaceae	Merismopedia	
Merismopedia warmingiana	Merismopediaceae	Merismopedia	
Micrasterias	Desmidiaceae	Micrasterias	
Microcystis	Microcystaceae	Microcystis	
Microspora	Microsporaceae	Microspora	
Microthamnion kuetzingianum	Chaetophoraceae	Microthamnion	
Mougeotia	Zygnemataceae	Mougeotia	
Oedogonium	Oedogoniaceae	Oedogonium	
Oocystis	Oocystaceae	Oocystis	
Ophiocytium capitatum	Ophiocytaceae	Ophiocytium	
Oscillatoria	Oscillatoriaceae	Oscillatoria	
Oscillatoria acutissima	Pseudanabaenaceae	Geitlerinema	Geitlerinema acutissimum
Oscillatoria limosa	Oscillatoriaceae	Oscillatoria	
Oscillatoria princeps	Oscillatoriaceae	Oscillatoria	
Oscillatoria tenuis	Oscillatoriaceae	Oscillatoria	
Phacus	Euglenaceae	Phacus	
Phacus megalopsis	Euglenaceae	Phacus	
Phormidium	Phormidiaceae	Phormidium	
Phormidium aerugineo-caeruleum	Phormidiaceae	Phormidium	
Planktolyngbya	Pseudanabaenaceae	Planktolyngbya	
Planktosphaeria	Oocystaceae	Planktosphaeria	
Planktothrix	Phormidiaceae	Planktothrix	
Pleurocapsa	Pleurocapsaceae	Pleurocapsa	
Protococcus	Protococcaceae	Protococcus	
Pseudanabaena	Pseudanabaenaceae	Pseudanabaena	
Pseudanabaena mucicola	Pseudanabaenaceae	Pseudanabaena	
Rhabdogloea	Synechococcaceae	Rhabdogloea	
Scenedesmus	Scenedesmaceae	Scenedesmus	
Scenedesmus abundans	Scenedesmaceae	Scenedesmus	
Scenedesmus acuminatus	Scenedesmaceae	Scenedesmus	
Scenedesmus bicaudatus	Scenedesmaceae	Scenedesmus	
Scenedesmus bijuga	Scenedesmaceae	Scenedesmus	
Scenedesmus dimorphus	Scenedesmaceae	Scenedesmus	
Scenedesmus quadricauda	Scenedesmaceae	Scenedesmus	
Schizothrix calcicola	Oscillatoriaceae	Schizothrix	
Scytonema	Scytonemataceae	Scytonema	
Selenastrum	Scenedesmaceae	Selenastrum	
Spirogyra	Zygnemataceae	Spirogyra	

As Entered / STORET station ->
Sample date ->

Taxon Name / SampleID/PerID ->	Family	Genus	Current Name
Staurastrum	Desmidiaceae	Staurastrum	
Staurastrum illusum illusum	Desmidiaceae	Staurastrum	
Staurastrum lapponicum lapponicum	Desmidiaceae	Staurastrum	
Stigeoclonium	Chaetophoraceae	Stigeoclonium	
Synechococcus	Chroococcaceae	Synechococcus	
Synechocystis	Chroococcaceae	Synechocystis	
Tetraedron minimum	Chlorococcaceae	Tetraedron	
Tetraedron trigonum	Chlorococcaceae	Tetraedron	
Trachelomonas	Euglenaceae	Trachelomonas	
Ulothrix	Ulotrichaceae	Ulothrix	

As Entered / STORET station ->	273116508208152	LEV502GS	3513	PUT308GS
Sample date ->	6/21/2006	2/21/2007	2/20/2007	2/26/2007
Taxon Name / SampleID/PerDiaID ->	Sampleid 52834/PerDiaID 21128 (# counted)	Sampleid 57322/PerDiaID 21789 (# counted)	Sampleid 57324/PerDiaID 21790 (# counted)	Sampleid 57431/PerDiaID 21831 (# counted)
Achnanthaceae	-	-	-	-
Achnanthales	-	-	-	-
Achnanthes	-	7	70	12
Achnanthes clevei	14	2	31	-
Achnanthes exigua	24	1	3	5
Achnanthes fluviatilis	-	-	-	-
Achnanthes hungarica	-	-	-	-
Achnanthes lanceolata	-	3	7	4
Achnanthes lanceolata apiculata	68	3	-	9
Achnanthes lanceolata frequentissima	13	-	-	-
Achnanthes lanceolata rostrata	2	4	-	-
Achnanthes minutissima	-	-	1	-
Achnanthes peragalli	-	-	-	-
Achnanthes rupestoides	-	91	4	-
Achnanthidiaceae	-	-	-	-
Achnanthidium	-	-	-	-
Achnanthidium exiguum	-	-	-	-
Achnanthidium microcephalum	-	-	-	-
Achnanthidium minutissimum	-	-	-	-
Actinella	-	-	-	-
Amphipleura pellucida	-	2	-	-
Amphora	4	17	6	-
Amphora copulata	-	-	-	-
Amphora libyca	-	2	-	-
Amphora veneta	-	1	-	-
Anorthoneis	-	-	-	-
Asterionella	-	-	-	-
Aulacoseira	4	-	-	3
Aulacoseira granulata	-	-	-	-
Aulacoseira herzogii	-	-	-	-
Bacillaria paxillifer	12	-	-	-
Bacillariophyceae	-	19	28	11
Bacillariophyta	-	-	-	-
Brachysira	-	-	-	-
Brachysira brebissonii	-	-	-	-
Brachysira microcephala	-	-	-	-
Brachysira vitrea	3	-	-	-
Caloneis	-	-	-	-
Caloneis bacillum	-	-	-	-
Capartogramma crucicula	11	-	-	-
Cavinula	-	-	-	-
Cavinula cocconeiformis	-	-	-	-
Cavinula jaernefeltii	-	-	-	-
Chamaepinnularia margaritiana	-	-	-	-
Chamaepinnularia minutissima	-	-	-	-
Cocconeis	-	5	4	-
Cocconeis disculus	-	-	-	-
Cocconeis fluviatilis	37	26	-	-

As Entered / STORET station ->	273116508208152	LEV502GS	3513	PUT308GS
Sample date ->	6/21/2006	2/21/2007	2/20/2007	2/26/2007
Taxon Name / SampleID/PerDiaID ->	Sampleid 52834/PerDiaID 21128 (# counted)	Sampleid 57322/PerDiaID 21789 (# counted)	Sampleid 57324/PerDiaID 21790 (# counted)	Sampleid 57431/PerDiaID 21831 (# counted)
Cocconeis pediculus	-	-	-	-
Cocconeis placentula	-	71	46	-
Cocconeis pseudothumensis	-	-	-	-
Coscinodiscophyceae	-	-	-	-
Craticula	1	-	-	2
Craticula minusculoides	-	-	-	-
Cyclostephanos invisitatus	-	-	-	-
Cyclotella	-	-	-	-
Cyclotella atomus	-	-	-	-
Cyclotella meneghiniana	2	-	-	-
Cyclotella pseudostelligera	-	-	-	-
Cymbella	-	-	3	-
Cymbella aspera	-	-	-	-
Cymbella subcuspidata	-	-	-	-
Cymbellaceae	-	-	-	-
Cymbellales	-	-	-	-
Diadesmis confervacea	33	4	71	10
Diadesmis contenta	-	1	-	-
Diatoma	-	-	-	-
Diploneis	5	-	-	-
Diploneis oblongella	-	-	-	-
Diploneis ovalis	-	-	-	-
Diploneis parma	-	-	-	-
Diploneis pseudovalis	-	1	-	-
Encyonema	-	-	-	-
Encyonema evergladianum	-	1	-	-
Encyonema minutum	-	-	-	-
Encyonema neomesianum	-	-	-	-
Encyonema silesiacum	-	-	1	9
Encyonopsis microcephala	-	-	-	-
Epithemia	-	-	-	-
Eunotia	19	17	-	235
Eunotia bilunaris	-	2	-	1
Eunotia carolina	-	-	-	-
Eunotia exigua	-	-	-	-
Eunotia flexuosa	-	-	-	-
Eunotia formica	1	-	-	-
Eunotia implicata	-	-	-	-
Eunotia incisa	-	-	-	-
Eunotia meisteri	-	-	-	-
Eunotia minor	-	-	-	-
Eunotia naegelii	-	-	-	-
Eunotia paludosa	-	-	-	-
Eunotia pectinalis	-	-	-	6
Eunotia pectinalis undulata	-	-	-	-
Eunotia rhomboidea	-	-	-	-
Eunotia transfuga	-	-	-	-
Eunotia undulata	-	-	-	-

As Entered / STORET station ->	273116508208152	LEV502GS	3513	PUT308GS
Sample date ->	6/21/2006	2/21/2007	2/20/2007	2/26/2007
Taxon Name / SampleID/PerDiaID ->	Sampleid 52834/PerDiaID 21128 (# counted)	Sampleid 57322/PerDiaID 21789 (# counted)	Sampleid 57324/PerDiaID 21790 (# counted)	Sampleid 57431/PerDiaID 21831 (# counted)
Eunotia yanomami	-	-	-	-
Eunotia zygodon	-	-	-	-
Fragilaria	-	2	6	-
Fragilaria brevistriata	15	-	-	-
Fragilaria capucina	-	-	-	-
Fragilaria crotonensis	-	-	-	-
Fragilaria javanica	-	-	-	-
Fragilaria pinnata	3	5	1	-
Fragilaria synegrotesca	-	-	-	-
Fragilaria virescens	-	-	-	-
Fragilariaceae	109	14	6	-
Fragilariforma	-	-	-	-
Fragilariforma bicapitata	-	-	-	-
Fragilariforma virescens	-	-	-	-
Fragilariophyceae	-	-	1	2
Frustulia	-	-	-	8
Frustulia rhomboides	-	-	-	-
Frustulia saxonica	-	-	-	2
Frustulia vulgaris	1	-	-	-
Geissleria decussis	-	-	-	-
Gomphonema	2	60	5	22
Gomphonema affine	-	-	-	-
Gomphonema augur	-	-	-	-
Gomphonema clevei	-	-	-	-
Gomphonema gracile	1	-	-	1
Gomphonema grovei lingulatum	-	-	-	-
Gomphonema guaraniarum	-	-	-	-
Gomphonema minutum	-	-	-	-
Gomphonema parvulum	-	-	-	7
Gomphonema truncatum	-	-	-	-
Gomphonema vibrio	-	-	-	-
Gyrosigma	2	-	-	-
Gyrosigma obscurum	-	-	1	-
Hantzschia	2	-	-	-
Hantzschia amphioxys	-	-	-	-
Hippodonta	-	8	-	-
Hippodonta capitata	17	1	-	1
Hippodonta hungarica	-	2	-	1
Karayevia clevei	-	-	-	-
Kobayasiella	-	-	-	-
Lemnicola hungarica	-	-	-	-
Luticola	-	-	-	-
Luticola mutica	-	-	-	-
Melosira	1	-	152	-
Meridion	-	-	-	-
Microcostatus polonarum	-	-	-	-
Navicula	4	38	17	4
Navicula bouillantensis	-	-	-	-

As Entered / STORET station ->	273116508208152	LEV502GS	3513	PUT308GS
Sample date ->	6/21/2006	2/21/2007	2/20/2007	2/26/2007
Taxon Name / SampleID/PerDiaID ->	Sampleid 52834/PerDiaID 21128 (# counted)	Sampleid 57322/PerDiaID 21789 (# counted)	Sampleid 57324/PerDiaID 21790 (# counted)	Sampleid 57431/PerDiaID 21831 (# counted)
Navicula clementis	-	-	-	-
Navicula cocconeiformis	-	-	-	3
Navicula constans	4	2	3	1
Navicula cryptocephala	6	7	-	4
Navicula cryptotenella	-	-	1	-
Navicula decussis	-	-	-	-
Navicula elginensis	5	-	-	-
Navicula festiva	-	-	-	-
Navicula gastrum	5	-	-	-
Navicula germainii	8	-	-	-
Navicula heimansioides	-	-	-	-
Navicula ingenua	-	-	-	-
Navicula kotschyi	-	-	-	-
Navicula longicephala	-	-	-	-
Navicula mediocris	-	-	-	-
Navicula minima	-	2	1	1
Navicula occulta	-	-	-	-
Navicula peregrina	11	-	-	-
Navicula placenta	-	-	-	-
Navicula placentula	-	-	-	-
Navicula porifera	-	-	-	-
Navicula radiosa	6	1	-	-
Navicula rhynchocephala	-	-	-	-
Navicula rostellata	1	-	-	-
Navicula schroeteri	-	-	-	-
Navicula seminulum	3	-	-	25
Navicula tripunctata	-	-	-	-
Navicula vaneeii	-	-	-	-
Navicula viridulacalcis	-	3	-	-
Naviculaceae	18	5	19	30
Naviculales	-	-	-	-
Neidium	-	2	-	-
Neidium alpinum	-	-	-	-
Neidium alpinum quadripunctatum	-	-	-	-
Neidium amphigomphus	-	-	-	-
Neidium binodis	-	-	-	-
Neidium densestriatum	-	-	-	1
Neidium dubium	-	-	-	-
Neidium ladogensis densestriatum	-	-	-	-
Nitzschia	1	23	9	31
Nitzschia amphibia	-	-	-	-
Nitzschia clausii	-	-	-	-
Nitzschia dissipata	-	-	-	-
Nitzschia frustulum	-	-	-	-
Nitzschia gracilis	1	-	-	-
Nitzschia intermedia	-	-	-	-
Nitzschia linearis	-	-	-	-
Nitzschia nana	-	-	-	2

As Entered / STORET station ->	273116508208152	LEV502GS	3513	PUT308GS
Sample date ->	6/21/2006	2/21/2007	2/20/2007	2/26/2007
	Sampleid 52834/PerDiaID	Sampleid 57322/PerDiaID	Sampleid 57324/PerDiaID	Sampleid 57431/PerDiaID
Taxon Name / SampleID/PerDiaID ->	21128 (# counted)	21789 (# counted)	21790 (# counted)	21831 (# counted)
Nitzschia palea	4	-	-	-
Nitzschia paleacea	-	-	-	-
Nitzschia palustris	-	-	-	-
Nitzschia reversa	-	-	-	-
Nitzschia scalaris	-	-	-	-
Nitzschia seriata	-	-	-	-
Nitzschia serrata	-	-	-	-
Nitzschia subacicularis	-	-	-	-
Nupela	-	-	-	-
Nupela cymbelloidea	-	-	-	-
Nupela neotropica	-	-	-	-
Opephora	-	-	-	-
Pinnularia	-	6	-	43
Pinnularia acrosphaeria	-	-	-	-
Placoneis	-	-	-	-
Placoneis elginensis	-	-	-	-
Planothidium	-	-	-	-
Planothidium apiculatum	-	-	-	-
Planothidium delicatulum	-	-	-	-
Planothidium frequentissimum	-	-	-	-
Planothidium lanceolatum	-	-	-	-
Planothidium peragalli	-	-	-	-
Planothidium rostratum	-	-	-	-
Pleurosira laevis	-	-	-	-
Psammothidium daonense	-	-	-	-
Psammothidium sacculum	-	-	-	-
Pseudostaurosira brevistriata	-	-	-	-
Rhopalodia	-	-	-	-
Rossithidium	-	-	-	-
Rossithidium pusillium	-	-	-	-
Sellaphora	-	2	-	-
Sellaphora laevissima	-	-	-	-
Sellaphora pupula	8	-	-	2
Stauroneis	-	1	-	-
Stauroneis anceps	-	-	-	-
Stauroneis phoenicenteron	-	-	-	-
Stauroneis prominula	-	-	-	-
Stauroneis smithii	6	-	-	-
Staurosira construens	-	-	-	-
Staurosira elliptica	-	-	-	-
Staurosirella	-	-	-	-
Staurosirella leptostauron	-	-	-	-
Staurosirella pinnata	-	-	-	-
Stenopterobia	-	-	-	-
Stenopterobia delicatissima	-	-	-	-
Stephanodiscus	-	-	-	-
Surirella	-	-	-	2
Surirella angusta	-	-	-	-

As Entered / STORET station ->	273116508208152	LEV502GS	3513	PUT308GS
Sample date ->	6/21/2006	2/21/2007	2/20/2007	2/26/2007
	Sampleid 52834/PerDiaID	Sampleid 57322/PerDiaID	Sampleid 57324/PerDiaID	Sampleid 57431/PerDiaID
Taxon Name / SampleID/PerDiaID ->	21128 (# counted)	21789 (# counted)	21790 (# counted)	21831 (# counted)
Synedra	-	1	1	-
Synedra acus	-	-	-	-
Synedra fasciculata	-	-	2	-
Synedra ulna	-	36	-	-
Tabellaria	-	-	-	-
Terpsinoe musica	3	-	-	-
Thalassionema	-	-	-	-
Thalassiosira	-	-	-	-
Tryblionella	-	-	-	-
Tryblionella levidensis	-	-	-	-

As Entered / STORET station ->	NUTREF001	LIB104LV	23010464	CLA246GS
Sample date ->	6/10/2008	6/10/2008	5/7/2008	5/28/2008
	Sampleid 65029/PerDiaID	Sampleid 65025/PerDiaID	Sampleid 64546/PerDiaID	Sampleid 65250/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24392 (# counted)	24393 (# counted)	24394 (# counted)	24411 (# counted)
Achnanthaceae	-	-	-	-
Achnanthales	64	82	-	-
Achnanthes	75	45	12	9
Achnanthes clevei	-	-	-	-
Achnanthes exigua	16	1	19	-
Achnanthes fluviatilis	-	-	-	-
Achnanthes hungarica	-	-	3	-
Achnanthes lanceolata	-	-	-	-
Achnanthes lanceolata apiculata	-	-	-	-
Achnanthes lanceolata frequentissima	-	-	-	-
Achnanthes lanceolata rostrata	-	-	-	-
Achnanthes minutissima	-	-	-	-
Achnanthes peragalli	-	1	-	-
Achnanthes rupestoides	23	-	-	-
Achnanthidiaceae	-	-	-	-
Achnanthidium	46	41	2	-
Achnanthidium exiguum	-	-	-	2
Achnanthidium microcephalum	-	2	4	-
Achnanthidium minutissimum	-	14	-	-
Actinella	-	-	-	-
Amphipleura pellucida	1	-	-	-
Amphora	-	2	-	-
Amphora copulata	-	-	-	-
Amphora libyca	-	-	-	-
Amphora veneta	-	-	-	-
Anorthoneis	-	-	-	-
Asterionella	-	-	-	-
Aulacoseira	-	-	29	-
Aulacoseira granulata	-	-	-	-
Aulacoseira herzogii	-	-	-	-
Bacillaria paxillifer	-	-	-	-
Bacillariophyceae	32	42	16	22
Bacillariophyta	1	-	-	-
Brachysira	10	-	4	2
Brachysira brebissonii	-	-	-	-
Brachysira microcephala	-	-	-	-
Brachysira vitrea	-	-	7	1
Caloneis	-	-	-	-
Caloneis bacillum	2	-	-	-
Capartogramma crucicula	-	-	-	-
Cavinula	-	-	-	-
Cavinula cocconeiformis	-	-	-	-
Cavinula jaernefeltii	-	-	-	-
Chamaepinnularia margaritiana	-	-	-	-
Chamaepinnularia minutissima	-	-	-	-
Cocconeis	-	-	15	-
Cocconeis disculus	-	-	-	-
Cocconeis fluviatilis	-	-	-	-

As Entered / STORET station ->	NUTREF001	LIB104LV	23010464	CLA246GS
Sample date ->	6/10/2008	6/10/2008	5/7/2008	5/28/2008
	Sampleid 65029/PerDiaID	Sampleid 65025/PerDiaID	Sampleid 64546/PerDiaID	Sampleid 65250/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24392 (# counted)	24393 (# counted)	24394 (# counted)	24411 (# counted)
Cocconeis pediculus	-	-	-	-
Cocconeis placentula	-	-	63	-
Cocconeis pseudothumensis	-	-	-	-
Coscinodiscophyceae	1	-	-	-
Craticula	-	-	-	-
Craticula minusculoides	-	-	-	-
Cyclostephanos invisitatus	-	-	1	-
Cyclotella	3	-	7	-
Cyclotella atomus	-	-	2	-
Cyclotella meneghiniana	-	-	2	-
Cyclotella pseudostelligera	-	-	-	-
Cymbella	-	-	-	-
Cymbella aspera	-	-	-	-
Cymbella subcuspidata	-	-	-	-
Cymbellaceae	2	-	12	6
Cymbellales	-	-	-	-
Diadesmis confervacea	-	-	3	-
Diadesmis contenta	-	-	-	-
Diatoma	-	-	-	-
Diploneis	-	-	-	-
Diploneis oblongella	-	-	-	-
Diploneis ovalis	-	-	-	-
Diploneis parma	-	-	-	-
Diploneis pseudovalis	-	-	-	-
Encyonema	2	-	1	-
Encyonema evergladianum	-	-	-	-
Encyonema minutum	-	-	2	21
Encyonema neomesianum	-	-	1	-
Encyonema silesiacum	-	-	-	3
Encyonopsis microcephala	-	-	2	-
Epithemia	-	-	-	-
Eunotia	73	145	21	278
Eunotia bilunaris	2	-	-	-
Eunotia carolina	-	-	-	-
Eunotia exigua	-	-	-	-
Eunotia flexuosa	-	-	-	-
Eunotia formica	-	-	-	1
Eunotia implicata	-	-	-	-
Eunotia incisa	-	-	-	26
Eunotia meisteri	-	-	-	-
Eunotia minor	-	-	-	-
Eunotia naegelii	-	-	-	6
Eunotia paludosa	1	2	-	-
Eunotia pectinalis	-	-	-	-
Eunotia pectinalis undulata	-	-	-	-
Eunotia rhomboidea	-	-	-	-
Eunotia transfuga	-	-	-	-
Eunotia undulata	-	-	-	-

As Entered / STORET station ->	NUTREF001	LIB104LV	23010464	CLA246GS
Sample date ->	6/10/2008	6/10/2008	5/7/2008	5/28/2008
	Sampleid 65029/PerDiaID	Sampleid 65025/PerDiaID	Sampleid 64546/PerDiaID	Sampleid 65250/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24392 (# counted)	24393 (# counted)	24394 (# counted)	24411 (# counted)
Eunotia yanomami	-	-	-	-
Eunotia zygodon	-	-	-	-
Fragilaria	-	-	-	-
Fragilaria brevistriata	-	-	-	-
Fragilaria capucina	-	-	2	-
Fragilaria crotonensis	-	-	-	-
Fragilaria javanica	-	-	-	-
Fragilaria pinnata	-	-	-	-
Fragilaria synegrotesca	-	-	-	-
Fragilaria virescens	-	-	-	-
Fragilariaceae	21	-	4	-
Fragilariforma	-	-	-	-
Fragilariforma bicapitata	-	-	-	11
Fragilariforma virescens	-	-	-	-
Fragilariophyceae	-	-	-	-
Frustulia	5	2	-	10
Frustulia rhomboides	-	-	-	-
Frustulia saxonica	2	4	-	-
Frustulia vulgaris	-	-	-	-
Geissleria decussis	-	-	-	-
Gomphonema	12	10	1	-
Gomphonema affine	-	-	-	-
Gomphonema augur	-	-	-	-
Gomphonema clevei	-	-	-	-
Gomphonema gracile	-	-	-	-
Gomphonema grovei lingulatum	-	-	-	-
Gomphonema guaraniarum	-	-	-	-
Gomphonema minutum	-	-	-	-
Gomphonema parvulum	1	-	11	-
Gomphonema truncatum	-	-	-	-
Gomphonema vibrio	-	-	-	-
Gyrosigma	-	-	-	-
Gyrosigma obscurum	-	-	-	-
Hantzschia	-	-	-	-
Hantzschia amphioxys	-	-	-	-
Hippodonta	1	-	-	-
Hippodonta capitata	1	1	2	1
Hippodonta hungarica	-	-	-	-
Karayevia clevei	-	-	-	-
Kobayasiella	-	-	-	-
Lemnicola hungarica	-	-	-	-
Luticola	2	-	-	-
Luticola mutica	-	-	-	-
Melosira	-	-	-	-
Meridion	-	-	-	-
Microcostatus polonarum	-	-	-	-
Navicula	13	-	18	9
Navicula bouillantensis	-	-	-	-

As Entered / STORET station ->	NUTREF001	LIB104LV	23010464	CLA246GS
Sample date ->	6/10/2008	6/10/2008	5/7/2008	5/28/2008
	Sampleid 65029/PerDiaID	Sampleid 65025/PerDiaID	Sampleid 64546/PerDiaID	Sampleid 65250/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24392 (# counted)	24393 (# counted)	24394 (# counted)	24411 (# counted)
Navicula clementis	-	-	-	-
Navicula cocconeiformis	-	-	-	-
Navicula constans	-	-	-	-
Navicula cryptocephala	2	-	5	-
Navicula cryptotenella	-	-	4	-
Navicula decussis	-	-	-	-
Navicula elginensis	-	-	-	2
Navicula festiva	-	-	-	-
Navicula gastrum	-	-	-	-
Navicula germainii	-	-	-	-
Navicula heimansioides	-	-	-	-
Navicula ingenua	-	-	-	-
Navicula kotschyi	-	-	-	-
Navicula longicephala	-	-	-	-
Navicula mediocris	-	-	-	-
Navicula minima	-	-	74	52
Navicula occulta	-	-	-	-
Navicula peregrina	-	-	-	-
Navicula placenta	-	-	-	-
Navicula placentula	-	-	-	-
Navicula porifera	-	-	-	-
Navicula radiosa	-	-	-	-
Navicula rhynchocephala	-	-	-	-
Navicula rostellata	-	-	-	-
Navicula schroeteri	-	-	-	-
Navicula seminulum	-	-	-	-
Navicula tripunctata	-	-	-	-
Navicula vaneeii	-	-	-	-
Navicula viridulacalcis	-	-	-	-
Naviculaceae	11	-	2	4
Naviculales	-	-	-	-
Neidium	-	-	-	1
Neidium alpinum	-	-	-	-
Neidium alpinum quadripunctatum	-	-	-	-
Neidium amphigomphus	-	-	-	-
Neidium binodis	-	-	-	-
Neidium densestriatum	-	3	-	-
Neidium dubium	-	-	-	-
Neidium ladogensis densestriatum	-	-	-	-
Nitzschia	27	12	103	9
Nitzschia amphibia	2	-	-	-
Nitzschia clausii	-	-	-	-
Nitzschia dissipata	-	-	-	-
Nitzschia frustulum	-	-	-	-
Nitzschia gracilis	-	-	-	-
Nitzschia intermedia	-	-	2	-
Nitzschia linearis	-	-	-	-
Nitzschia nana	-	-	7	-

As Entered / STORET station ->	NUTREF001	LIB104LV	23010464	CLA246GS
Sample date ->	6/10/2008	6/10/2008	5/7/2008	5/28/2008
	Sampleid 65029/PerDiaID	Sampleid 65025/PerDiaID	Sampleid 64546/PerDiaID	Sampleid 65250/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24392 (# counted)	24393 (# counted)	24394 (# counted)	24411 (# counted)
Nitzschia palea	2	-	-	-
Nitzschia paleacea	-	4	-	-
Nitzschia palustris	-	-	-	-
Nitzschia reversa	-	-	1	-
Nitzschia scalaris	-	-	-	-
Nitzschia seriata	-	-	-	-
Nitzschia serrata	-	-	-	-
Nitzschia subacicularis	-	-	-	-
Nupela	-	-	-	-
Nupela cymbelloidea	-	-	-	-
Nupela neotropica	-	-	-	-
Opephora	-	-	3	-
Pinnularia	16	83	2	16
Pinnularia acrosphaeria	-	-	-	-
Placoneis	-	-	-	-
Placoneis elginensis	-	-	-	-
Planothidium	13	3	-	-
Planothidium apiculatum	-	-	-	-
Planothidium delicatulum	-	-	-	-
Planothidium frequentissimum	-	-	-	-
Planothidium lanceolatum	12	-	15	1
Planothidium peragalli	-	-	-	-
Planothidium rostratum	-	-	6	-
Pleurosira laevis	-	-	-	-
Psammothidium daonense	-	-	-	-
Psammothidium sacculum	-	-	-	-
Pseudostaurosira brevistriata	-	-	-	-
Rhopalodia	1	-	-	3
Rossithidium	-	-	-	-
Rossithidium pusillium	-	-	-	-
Sellaphora	-	-	-	-
Sellaphora laevissima	-	-	-	-
Sellaphora pupula	2	-	5	-
Stauroneis	-	1	-	-
Stauroneis anceps	-	-	-	-
Stauroneis phoenicenteron	-	-	-	-
Stauroneis prominula	-	-	-	-
Stauroneis smithii	-	-	-	-
Staurosira construens	-	-	-	-
Staurosira elliptica	-	-	-	-
Staurosirella	-	-	-	-
Staurosirella leptostauron	-	-	-	-
Staurosirella pinnata	-	-	-	-
Stenopterobia	-	-	-	3
Stenopterobia delicatissima	-	-	-	-
Stephanodiscus	-	-	-	-
Surirella	-	-	-	-
Surirella angusta	-	-	-	-

As Entered / STORET station ->	NUTREF001	LIB104LV	23010464	CLA246GS
Sample date ->	6/10/2008	6/10/2008	5/7/2008	5/28/2008
Taxon Name / SampleID/PerDiaID ->	Sampleid 65029/PerDiaID 24392 (# counted)	Sampleid 65025/PerDiaID 24393 (# counted)	Sampleid 64546/PerDiaID 24394 (# counted)	Sampleid 65250/PerDiaID 24411 (# counted)
Synedra	-	-	2	-
Synedra acus	-	-	1	-
Synedra fasciculata	-	-	-	-
Synedra ulna	-	-	1	1
Tabellaria	-	-	-	-
Terpsinoe musica	-	-	-	-
Thalassionema	-	-	1	-
Thalassiosira	-	-	-	-
Tryblionella	-	-	-	-
Tryblionella levidensis	-	-	-	-

As Entered / STORET station ->	22020093	GAD106GS	BAK208GS	3545
Sample date ->	6/13/2008	6/13/2008	6/18/2008	7/9/2008
	Sampleid 65026/PerDiaID	Sampleid 65028/PerDiaID	Sampleid 65306/PerDiaID	Sampleid 65291/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24416 (# counted)	24417 (# counted)	24430 (# counted)	24441 (# counted)
Achnanthaceae	8	-	-	-
Achnanthales	-	4	-	-
Achnanthes	-	-	-	-
Achnanthes clevei	-	-	-	-
Achnanthes exigua	-	-	-	-
Achnanthes fluviatilis	-	-	-	-
Achnanthes hungarica	-	-	-	-
Achnanthes lanceolata	-	-	-	-
Achnanthes lanceolata apiculata	-	-	-	-
Achnanthes lanceolata frequentissima	-	-	-	-
Achnanthes lanceolata rostrata	-	-	-	-
Achnanthes minutissima	-	-	-	-
Achnanthes peragalli	-	-	-	-
Achnanthes rupestoides	-	-	-	-
Achnanthidiaceae	-	-	-	-
Achnanthidium	-	-	-	-
Achnanthidium exiguum	-	-	-	-
Achnanthidium microcephalum	-	-	-	-
Achnanthidium minutissimum	16	1	-	-
Actinella	-	-	-	-
Amphipleura pellucida	-	-	-	-
Amphora	4	-	-	-
Amphora copulata	-	-	-	-
Amphora libyca	-	-	-	-
Amphora veneta	-	-	-	-
Anorthoneis	-	-	-	-
Asterionella	-	-	-	-
Aulacoseira	3	-	-	-
Aulacoseira granulata	-	-	-	-
Aulacoseira herzogii	2	-	-	-
Bacillaria paxillifer	2	-	-	-
Bacillariophyceae	14	15	5	7
Bacillariophyta	-	-	-	-
Brachysira	-	-	-	-
Brachysira brebissonii	-	-	-	3
Brachysira microcephala	-	-	-	4
Brachysira vitrea	-	-	-	-
Caloneis	-	-	-	-
Caloneis bacillum	-	1	1	-
Capartogramma crucicula	3	-	-	-
Cavinula	-	-	-	-
Cavinula cocconeiformis	-	-	-	-
Cavinula jaernefeltii	-	-	-	-
Chamaepinnularia margaritiana	-	-	-	-
Chamaepinnularia minutissima	-	-	-	-
Cocconeis	4	-	-	-
Cocconeis disculus	-	-	-	-
Cocconeis fluviatilis	-	-	-	-

As Entered / STORET station ->	22020093	GAD106GS	BAK208GS	3545
Sample date ->	6/13/2008	6/13/2008	6/18/2008	7/9/2008
	Sampleid 65026/PerDiaID	Sampleid 65028/PerDiaID	Sampleid 65306/PerDiaID	Sampleid 65291/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24416 (# counted)	24417 (# counted)	24430 (# counted)	24441 (# counted)
Cocconeis pediculus	-	-	-	-
Cocconeis placentula	6	-	-	-
Cocconeis pseudothumensis	-	-	-	-
Coscinodiscophyceae	-	-	-	-
Craticula	-	-	-	-
Craticula minusculoides	-	-	-	-
Cyclostephanos invisitatus	-	-	-	-
Cyclotella	4	-	-	-
Cyclotella atomus	-	-	-	-
Cyclotella meneghiniana	-	-	-	-
Cyclotella pseudostelligera	12	1	-	-
Cymbella	-	-	-	-
Cymbella aspera	1	-	-	-
Cymbella subcuspidata	-	-	-	-
Cymbellaceae	4	-	-	-
Cymbellales	-	-	-	11
Diadesmis confervacea	1	-	-	-
Diadesmis contenta	-	-	-	-
Diatoma	-	-	-	-
Diploneis	1	-	-	-
Diploneis oblongella	-	-	-	-
Diploneis ovalis	-	-	-	-
Diploneis parma	-	-	-	-
Diploneis pseudovalis	-	-	-	-
Encyonema	-	-	-	1
Encyonema evergladianum	-	-	-	-
Encyonema minutum	6	-	-	-
Encyonema neomesianum	-	-	-	-
Encyonema silesiacum	1	-	-	-
Encyonopsis microcephala	-	-	-	-
Epithemia	-	-	-	-
Eunotia	20	103	260	280
Eunotia bilunaris	-	1	-	-
Eunotia carolina	-	-	-	1
Eunotia exigua	-	-	9	10
Eunotia flexuosa	-	-	-	-
Eunotia formica	-	-	-	-
Eunotia implicata	-	-	-	-
Eunotia incisa	-	5	8	11
Eunotia meisteri	-	-	-	-
Eunotia minor	-	-	-	4
Eunotia naegelii	-	-	1	-
Eunotia paludosa	-	2	3	-
Eunotia pectinalis	-	-	-	-
Eunotia pectinalis undulata	-	-	-	4
Eunotia rhomboidea	-	-	-	-
Eunotia transfuga	-	-	-	-
Eunotia undulata	-	-	-	-

As Entered / STORET station ->	22020093	GAD106GS	BAK208GS	3545
Sample date ->	6/13/2008	6/13/2008	6/18/2008	7/9/2008
	Sampleid 65026/PerDiaID	Sampleid 65028/PerDiaID	Sampleid 65306/PerDiaID	Sampleid 65291/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24416 (# counted)	24417 (# counted)	24430 (# counted)	24441 (# counted)
Eunotia yanomami	-	-	-	1
Eunotia zygodon	-	-	-	-
Fragilaria	-	-	-	-
Fragilaria brevistriata	-	-	-	-
Fragilaria capucina	6	-	-	-
Fragilaria crotonensis	-	-	-	-
Fragilaria javanica	-	-	-	-
Fragilaria pinnata	-	-	-	-
Fragilaria synegrotesca	1	-	-	-
Fragilaria virescens	-	-	-	-
Fragilariaceae	7	-	-	5
Fragilariforma	-	-	-	-
Fragilariforma bicapitata	-	-	-	-
Fragilariforma virescens	-	-	-	8
Fragilariophyceae	-	-	-	-
Frustulia	-	4	72	24
Frustulia rhomboides	-	-	-	-
Frustulia saxonica	-	-	29	-
Frustulia vulgaris	-	-	-	-
Geissleria decussis	-	1	-	-
Gomphonema	2	-	-	-
Gomphonema affine	-	-	-	-
Gomphonema augur	-	-	-	-
Gomphonema clevei	-	-	-	-
Gomphonema gracile	1	-	-	4
Gomphonema grovei lingulatum	10	-	-	-
Gomphonema guaraniarum	-	-	-	-
Gomphonema minutum	-	-	-	-
Gomphonema parvulum	-	-	-	-
Gomphonema truncatum	-	-	-	-
Gomphonema vibrio	-	-	-	-
Gyrosigma	-	-	-	-
Gyrosigma obscurum	-	-	-	-
Hantzschia	-	-	-	-
Hantzschia amphioxys	-	-	-	-
Hippodonta	-	-	-	-
Hippodonta capitata	2	-	-	2
Hippodonta hungarica	2	-	-	-
Karayevia clevei	1	-	2	-
Kobayasiella	-	-	-	-
Lemnicola hungarica	-	-	-	-
Luticola	-	-	-	-
Luticola mutica	-	-	-	-
Melosira	-	-	1	-
Meridion	-	-	-	-
Microcostatus polonarum	-	-	-	-
Navicula	144	265	-	17
Navicula bouillantensis	-	-	-	-

As Entered / STORET station ->	22020093	GAD106GS	BAK208GS	3545
Sample date ->	6/13/2008	6/13/2008	6/18/2008	7/9/2008
	Sampleid 65026/PerDiaID	Sampleid 65028/PerDiaID	Sampleid 65306/PerDiaID	Sampleid 65291/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24416 (# counted)	24417 (# counted)	24430 (# counted)	24441 (# counted)
Navicula clementis	-	-	-	-
Navicula cocconeiformis	-	-	-	-
Navicula constans	-	-	-	-
Navicula cryptocephala	22	-	-	12
Navicula cryptotenella	4	-	-	-
Navicula decussis	-	-	-	-
Navicula elginensis	-	-	-	-
Navicula festiva	-	-	-	-
Navicula gastrum	-	-	-	-
Navicula germainii	-	-	-	-
Navicula heimansioides	-	-	-	-
Navicula ingenua	-	-	-	-
Navicula kotschyi	-	-	-	-
Navicula longicephala	-	-	-	-
Navicula mediocris	-	-	-	-
Navicula minima	108	3	-	-
Navicula occulta	-	-	-	-
Navicula peregrina	-	-	-	-
Navicula placenta	-	-	-	-
Navicula placentula	-	-	-	-
Navicula porifera	-	-	-	-
Navicula radiosa	-	-	-	-
Navicula rhynchocephala	-	-	-	-
Navicula rostellata	-	-	-	-
Navicula schroeteri	-	-	-	-
Navicula seminulum	-	-	-	-
Navicula tripunctata	-	-	-	-
Navicula vaneeii	-	-	-	-
Navicula viridulacalcis	-	-	-	-
Naviculaceae	25	63	-	17
Naviculales	-	-	-	15
Neidium	-	4	-	40
Neidium alpinum	-	-	-	-
Neidium alpinum quadripunctatum	-	-	-	-
Neidium amphigomphus	-	-	-	-
Neidium binodis	-	-	-	-
Neidium densestriatum	-	-	-	2
Neidium dubium	-	-	-	-
Neidium ladogensis densestriatum	-	-	-	-
Nitzschia	28	5	95	2
Nitzschia amphibia	1	-	-	-
Nitzschia clausii	-	-	-	-
Nitzschia dissipata	-	-	-	-
Nitzschia frustulum	-	-	-	-
Nitzschia gracilis	-	-	-	2
Nitzschia intermedia	-	-	-	-
Nitzschia linearis	-	-	-	-
Nitzschia nana	-	-	-	-

As Entered / STORET station ->	22020093	GAD106GS	BAK208GS	3545
Sample date ->	6/13/2008	6/13/2008	6/18/2008	7/9/2008
	Sampleid 65026/PerDiaID	Sampleid 65028/PerDiaID	Sampleid 65306/PerDiaID	Sampleid 65291/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24416 (# counted)	24417 (# counted)	24430 (# counted)	24441 (# counted)
Nitzschia palea	-	1	5	-
Nitzschia paleacea	-	-	-	-
Nitzschia palustris	-	-	-	-
Nitzschia reversa	-	-	-	-
Nitzschia scalaris	-	-	-	-
Nitzschia seriata	-	-	-	-
Nitzschia serrata	-	-	-	-
Nitzschia subacicularis	-	-	-	-
Nupela	-	-	-	-
Nupela cymbelloidea	-	-	-	-
Nupela neotropica	-	-	-	-
Opephora	-	-	-	-
Pinnularia	2	13	9	1
Pinnularia acrosphaeria	-	-	-	-
Placoneis	-	-	-	-
Placoneis elginensis	-	-	-	-
Planothidium	-	-	-	-
Planothidium apiculatum	-	-	-	-
Planothidium delicatulum	-	-	-	-
Planothidium frequentissimum	-	-	-	-
Planothidium lanceolatum	9	5	-	-
Planothidium peragalli	-	-	-	-
Planothidium rostratum	-	-	-	-
Pleurosira laevis	-	-	-	-
Psammothidium daonense	-	-	-	-
Psammothidium sacculum	-	-	-	-
Pseudostaurosira brevistriata	1	-	-	-
Rhopalodia	-	-	-	-
Rossithidium	-	-	-	-
Rossithidium pusillium	-	-	-	-
Sellaphora	1	-	-	-
Sellaphora laevissima	1	-	-	-
Sellaphora pupula	6	3	-	-
Stauroneis	-	-	-	6
Stauroneis anceps	-	-	-	-
Stauroneis phoenicenteron	-	-	-	-
Stauroneis prominula	-	-	-	-
Stauroneis smithii	-	-	-	-
Staurosira construens	2	-	-	-
Staurosira elliptica	1	-	-	-
Staurosirella	-	-	-	-
Staurosirella leptostauron	-	-	-	-
Staurosirella pinnata	-	-	-	-
Stenopterobia	-	-	-	-
Stenopterobia delicatissima	-	-	-	6
Stephanodiscus	-	-	-	-
Surirella	-	-	-	-
Surirella angusta	-	-	-	-

As Entered / STORET station ->	22020093	GAD106GS	BAK208GS	3545
Sample date ->	6/13/2008	6/13/2008	6/18/2008	7/9/2008
	Sampleid 65026/PerDiaID	Sampleid 65028/PerDiaID	Sampleid 65306/PerDiaID	Sampleid 65291/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24416 (# counted)	24417 (# counted)	24430 (# counted)	24441 (# counted)
Synedra	-	-	-	-
Synedra acus	-	-	-	-
Synedra fasciculata	-	-	-	-
Synedra ulna	1	-	-	-
Tabellaria	-	-	-	-
Terpsinoe musica	-	-	-	-
Thalassionema	-	-	-	-
Thalassiosira	-	-	-	-
Tryblionella	-	-	-	-
Tryblionella levidensis	-	-	-	-

As Entered / STORET station ->	3546	3549	32030023	21010008
Sample date ->	7/9/2008	7/10/2008	7/24/2008	7/16/2008
Taxon Name / SampleID/PerDiaID ->	Sampleid 65296/PerDiaID 24444 (# counted)	Sampleid 65316/PerDiaID 24445 (# counted)	Sampleid 65292/PerDiaID 24452 (# counted)	Sampleid 65293/PerDiaID 24458 (# counted)
Achnanthaceae	-	-	-	-
Achnanthales	23	-	-	-
Achnanthes	-	-	2	6
Achnanthes clevei	-	-	-	-
Achnanthes exigua	-	-	-	28
Achnanthes fluviatilis	-	-	-	35
Achnanthes hungarica	-	-	-	-
Achnanthes lanceolata	-	-	-	-
Achnanthes lanceolata apiculata	-	-	-	-
Achnanthes lanceolata frequentissima	-	-	-	-
Achnanthes lanceolata rostrata	-	-	-	-
Achnanthes minutissima	-	-	-	-
Achnanthes peragalli	-	-	-	-
Achnanthes rupestoides	2	-	-	-
Achnanthidiaceae	20	9	-	-
Achnanthidium	54	45	-	-
Achnanthidium exiguum	3	26	-	-
Achnanthidium microcephalum	-	-	-	-
Achnanthidium minutissimum	43	46	1	-
Actinella	-	-	9	-
Amphipleura pellucida	-	-	-	-
Amphora	1	-	-	5
Amphora copulata	-	-	-	-
Amphora libyca	-	-	-	-
Amphora veneta	-	-	-	-
Anorthoneis	-	-	-	4
Asterionella	-	-	2	-
Aulacoseira	1	3	-	-
Aulacoseira granulata	-	-	-	-
Aulacoseira herzogii	-	-	-	-
Bacillaria paxillifer	-	1	-	1
Bacillariophyceae	33	12	-	-
Bacillariophyta	-	-	-	-
Brachysira	1	-	-	-
Brachysira brebissonii	-	1	8	-
Brachysira microcephala	-	11	-	-
Brachysira vitrea	-	-	-	-
Caloneis	-	-	-	-
Caloneis bacillum	-	-	-	-
Capartogramma crucicula	-	1	-	1
Cavinula	-	-	-	-
Cavinula cocconeiformis	-	-	-	-
Cavinula jaernefeltii	-	-	-	-
Chamaepinnularia margaritiana	-	-	-	-
Chamaepinnularia minutissima	-	-	-	-
Cocconeis	12	21	-	14
Cocconeis disculus	-	-	-	1
Cocconeis fluviatilis	-	-	-	7

As Entered / STORET station ->	3546	3549	32030023	21010008
Sample date ->	7/9/2008	7/10/2008	7/24/2008	7/16/2008
Taxon Name / SampleID/PerDiaID ->	Sampleid 65296/PerDiaID 24444 (# counted)	Sampleid 65316/PerDiaID 24445 (# counted)	Sampleid 65292/PerDiaID 24452 (# counted)	Sampleid 65293/PerDiaID 24458 (# counted)
Cocconeis pediculus	-	-	-	-
Cocconeis placentula	-	-	-	23
Cocconeis pseudothumensis	-	-	-	-
Coscinodiscophyceae	-	-	-	-
Craticula	-	-	7	1
Craticula minusculoides	-	-	-	9
Cyclostephanos invisitatus	-	-	-	-
Cyclotella	-	-	-	-
Cyclotella atomus	-	-	-	-
Cyclotella meneghiniana	-	1	-	-
Cyclotella pseudostelligera	3	-	-	-
Cymbella	21	1	-	-
Cymbella aspera	-	-	-	-
Cymbella subcuspidata	-	-	-	-
Cymbellaceae	-	2	-	2
Cymbellales	-	-	-	-
Diadesmis confervacea	-	-	2	75
Diadesmis contenta	-	-	-	-
Diatoma	13	-	-	-
Diploneis	-	-	-	-
Diploneis oblongella	-	-	-	-
Diploneis ovalis	-	-	-	-
Diploneis parma	-	-	-	-
Diploneis pseudovalis	-	-	-	1
Encyonema	-	-	3	-
Encyonema evergladianum	-	-	-	-
Encyonema minutum	-	-	-	2
Encyonema neomesianum	-	-	-	-
Encyonema silesiacum	1	-	-	1
Encyonopsis microcephala	-	-	-	-
Epithemia	-	-	-	-
Eunotia	1	11	322	-
Eunotia bilunaris	-	-	4	-
Eunotia carolina	-	-	-	-
Eunotia exigua	-	-	-	-
Eunotia flexuosa	-	-	3	-
Eunotia formica	-	-	-	-
Eunotia implicata	-	-	-	-
Eunotia incisa	-	-	11	-
Eunotia meisteri	-	-	-	-
Eunotia minor	-	-	-	-
Eunotia naegelii	-	-	-	-
Eunotia paludosa	-	-	-	-
Eunotia pectinalis	-	-	-	-
Eunotia pectinalis undulata	-	-	-	-
Eunotia rhomboidea	-	-	3	-
Eunotia transfuga	-	-	-	-
Eunotia undulata	-	-	1	-

As Entered / STORET station ->	3546	3549	32030023	21010008
Sample date ->	7/9/2008	7/10/2008	7/24/2008	7/16/2008
Taxon Name / SampleID/PerDiaID ->	Sampleid 65296/PerDiaID 24444 (# counted)	Sampleid 65316/PerDiaID 24445 (# counted)	Sampleid 65292/PerDiaID 24452 (# counted)	Sampleid 65293/PerDiaID 24458 (# counted)
Eunotia yanomami	-	-	-	-
Eunotia zygodon	-	-	-	-
Fragilaria	-	-	-	-
Fragilaria brevistriata	-	-	-	-
Fragilaria capucina	1	1	1	4
Fragilaria crotonensis	-	-	-	-
Fragilaria javanica	-	-	-	-
Fragilaria pinnata	-	-	-	-
Fragilaria synegrotesca	-	-	-	-
Fragilaria virescens	-	-	-	-
Fragilariaceae	25	-	-	-
Fragilariforma	-	-	1	-
Fragilariforma bicapitata	-	-	-	-
Fragilariforma virescens	-	-	-	-
Fragilariophyceae	-	-	-	-
Frustulia	-	3	36	-
Frustulia rhomboides	-	-	-	-
Frustulia saxonica	-	-	-	-
Frustulia vulgaris	-	-	-	-
Geissleria decussis	-	-	-	-
Gomphonema	-	16	2	8
Gomphonema affine	-	-	-	-
Gomphonema augur	3	-	-	-
Gomphonema clevei	-	-	-	-
Gomphonema gracile	-	-	-	-
Gomphonema grovei lingulatum	-	-	-	-
Gomphonema guaraniarum	-	-	-	-
Gomphonema minutum	-	10	-	-
Gomphonema parvulum	-	-	-	5
Gomphonema truncatum	-	-	-	-
Gomphonema vibrio	-	-	-	-
Gyrosigma	-	2	-	1
Gyrosigma obscurum	-	-	-	-
Hantzschia	-	-	-	-
Hantzschia amphioxys	-	-	-	-
Hippodonta	-	-	-	-
Hippodonta capitata	-	1	-	1
Hippodonta hungarica	-	-	-	-
Karayevia clevei	1	-	-	-
Kobayasiella	-	-	-	-
Lemnicola hungarica	-	-	-	-
Luticola	-	-	3	1
Luticola mutica	-	-	14	-
Melosira	-	-	-	9
Meridion	-	-	-	-
Microcostatus polonarum	-	-	-	-
Navicula	55	43	13	61
Navicula bouillantensis	-	-	-	-

As Entered / STORET station ->	3546	3549	32030023	21010008
Sample date ->	7/9/2008	7/10/2008	7/24/2008	7/16/2008
	Sampleid 65296/PerDiaID	Sampleid 65316/PerDiaID	Sampleid 65292/PerDiaID	Sampleid 65293/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24444 (# counted)	24445 (# counted)	24452 (# counted)	24458 (# counted)
Navicula clementis	-	-	-	-
Navicula cocconeiformis	-	-	-	-
Navicula constans	-	-	-	-
Navicula cryptocephala	10	1	-	4
Navicula cryptotenella	1	-	-	-
Navicula decussis	-	-	-	-
Navicula elginensis	-	-	-	-
Navicula festiva	-	-	-	-
Navicula gastrum	-	-	-	-
Navicula germainii	-	-	-	-
Navicula heimansioides	-	-	-	-
Navicula ingenua	-	-	-	-
Navicula kotschyi	-	-	-	-
Navicula longicephala	-	-	-	-
Navicula mediocris	-	-	-	-
Navicula minima	19	12	-	63
Navicula occulta	-	-	-	-
Navicula peregrina	-	-	-	3
Navicula placenta	-	-	-	-
Navicula placentula	-	-	-	-
Navicula porifera	-	-	-	-
Navicula radiosa	-	-	-	-
Navicula rhynchocephala	-	-	-	-
Navicula rostellata	-	-	-	-
Navicula schroeteri	-	-	-	-
Navicula seminulum	-	-	-	17
Navicula tripunctata	-	-	-	-
Navicula vaneeii	-	-	-	-
Navicula viridulacalcis	12	-	-	3
Naviculaceae	14	31	20	10
Naviculales	-	-	-	-
Neidium	-	-	-	-
Neidium alpinum	-	-	4	-
Neidium alpinum quadripunctatum	-	-	2	-
Neidium amphigomphus	-	-	-	-
Neidium binodis	-	-	-	-
Neidium densestriatum	-	-	1	-
Neidium dubium	-	-	-	-
Neidium ladogensis densestriatum	-	-	-	-
Nitzschia	23	69	5	26
Nitzschia amphibia	-	8	-	-
Nitzschia clausii	1	-	-	-
Nitzschia dissipata	-	-	-	-
Nitzschia frustulum	-	-	-	-
Nitzschia gracilis	1	-	-	-
Nitzschia intermedia	-	-	-	3
Nitzschia linearis	-	-	-	-
Nitzschia nana	-	-	-	-

As Entered / STORET station ->	3546	3549	32030023	21010008
Sample date ->	7/9/2008	7/10/2008	7/24/2008	7/16/2008
	Sampleid 65296/PerDiaID	Sampleid 65316/PerDiaID	Sampleid 65292/PerDiaID	Sampleid 65293/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24444 (# counted)	24445 (# counted)	24452 (# counted)	24458 (# counted)
Nitzschia palea	-	-	-	-
Nitzschia paleacea	-	-	-	-
Nitzschia palustris	-	-	-	-
Nitzschia reversa	-	-	-	-
Nitzschia scalaris	-	-	-	-
Nitzschia seriata	-	-	-	-
Nitzschia serrata	-	-	-	-
Nitzschia subacicularis	-	-	-	-
Nupela	-	-	2	15
Nupela cymbelloidea	-	-	-	-
Nupela neotropica	-	-	-	-
Opephora	2	-	-	-
Pinnularia	-	-	2	1
Pinnularia acrosphaeria	-	-	-	-
Placoneis	-	-	-	-
Placoneis elginensis	-	-	-	-
Planothidium	51	74	-	5
Planothidium apiculatum	-	-	1	5
Planothidium delicatulum	3	-	-	1
Planothidium frequentissimum	20	34	-	2
Planothidium lanceolatum	-	-	-	-
Planothidium peragalli	-	-	-	-
Planothidium rostratum	21	-	-	7
Pleurosira laevis	-	-	-	2
Psammothidium daonense	-	-	-	-
Psammothidium sacculum	-	-	-	-
Pseudostaurosira brevistriata	-	-	-	-
Rhopalodia	-	-	-	-
Rossithidium	-	-	-	-
Rossithidium pusillium	-	-	-	-
Sellaphora	3	-	-	-
Sellaphora laevissima	-	-	-	-
Sellaphora pupula	-	1	-	-
Stauroneis	-	-	9	-
Stauroneis anceps	-	-	-	-
Stauroneis phoenicenteron	-	-	-	-
Stauroneis prominula	-	-	-	-
Stauroneis smithii	-	-	-	-
Staurosira construens	-	-	-	-
Staurosira elliptica	-	-	-	2
Staurosirella	-	2	-	-
Staurosirella leptostauron	1	-	-	-
Staurosirella pinnata	-	-	-	-
Stenopterobia	-	-	-	-
Stenopterobia delicatissima	-	-	4	-
Stephanodiscus	-	-	-	-
Surirella	-	-	-	-
Surirella angusta	-	-	-	-

As Entered / STORET station ->	3546	3549	32030023	21010008
Sample date ->	7/9/2008	7/10/2008	7/24/2008	7/16/2008
Taxon Name / SampleID/PerDiaID ->	Sampleid 65296/PerDiaID 24444 (# counted)	Sampleid 65316/PerDiaID 24445 (# counted)	Sampleid 65292/PerDiaID 24452 (# counted)	Sampleid 65293/PerDiaID 24458 (# counted)
Synedra	-	-	-	-
Synedra acus	-	-	-	-
Synedra fasciculata	-	-	-	-
Synedra ulna	1	1	-	20
Tabellaria	-	-	2	-
Terpsinoe musica	-	-	-	-
Thalassionema	-	-	-	-
Thalassiosira	-	-	-	4
Tryblionella	-	-	-	-
Tryblionella levidensis	-	-	-	1

As Entered / STORET station ->	WAK158LR	22050083	22050040	23010464
Sample date ->	6/19/2008	8/12/2008	8/12/2008	10/8/2008
Taxon Name / SampleID/PerDiaID ->	Sampleid 65414/PerDiaID 24471 (# counted)	Sampleid 65379/PerDiaID 24479 (# counted)	Sampleid 65382/PerDiaID 24482 (# counted)	Sampleid 65567/PerDiaID 24491 (# counted)
Achnanthaceae	-	-	-	-
Achnanthales	-	-	-	-
Achnanthes	-	3	8	-
Achnanthes clevei	-	-	-	-
Achnanthes exigua	-	-	-	-
Achnanthes fluviatilis	-	13	27	-
Achnanthes hungarica	-	-	-	-
Achnanthes lanceolata	-	-	-	-
Achnanthes lanceolata apiculata	-	-	-	-
Achnanthes lanceolata frequentissima	-	-	-	-
Achnanthes lanceolata rostrata	-	-	-	-
Achnanthes minutissima	-	-	-	-
Achnanthes peragalli	-	-	-	-
Achnanthes rupestoides	-	46	195	-
Achnanthidiaceae	9	6	6	-
Achnanthidium	73	2	1	-
Achnanthidium exiguum	46	36	24	43
Achnanthidium microcephalum	-	-	-	-
Achnanthidium minutissimum	12	-	2	1
Actinella	-	-	-	-
Amphipleura pellucida	-	-	-	-
Amphora	4	2	1	-
Amphora copulata	-	-	-	-
Amphora libyca	-	-	-	-
Amphora veneta	-	-	-	-
Anorthoneis	-	-	-	-
Asterionella	-	-	-	-
Aulacoseira	202	-	-	8
Aulacoseira granulata	-	-	-	-
Aulacoseira herzogii	-	-	-	-
Bacillaria paxillifer	-	-	-	-
Bacillariophyceae	6	-	-	6
Bacillariophyta	-	-	-	-
Brachysira	2	-	-	-
Brachysira brebissonii	-	-	-	-
Brachysira microcephala	-	-	-	-
Brachysira vitrea	-	-	-	-
Caloneis	-	-	-	-
Caloneis bacillum	-	-	-	2
Capartogramma crucicula	-	-	-	2
Cavinula	-	-	-	-
Cavinula cocconeiformis	-	-	-	-
Cavinula jaernefeltii	-	-	-	-
Chamaepinnularia margaritiana	-	-	-	-
Chamaepinnularia minutissima	-	-	-	-
Cocconeis	6	2	-	1
Cocconeis disculus	-	-	-	-
Cocconeis fluviatilis	-	-	-	1

As Entered / STORET station ->	WAK158LR	22050083	22050040	23010464
Sample date ->	6/19/2008	8/12/2008	8/12/2008	10/8/2008
	Sampleid 65414/PerDiaID	Sampleid 65379/PerDiaID	Sampleid 65382/PerDiaID	Sampleid 65567/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24471 (# counted)	24479 (# counted)	24482 (# counted)	24491 (# counted)
Cocconeis pediculus	-	2	-	-
Cocconeis placentula	-	118	21	15
Cocconeis pseudothumensis	-	-	-	-
Coscinodiscophyceae	1	-	-	-
Craticula	-	-	-	-
Craticula minusculoides	-	-	-	-
Cyclostephanos invisitatus	-	-	-	-
Cyclotella	-	-	-	3
Cyclotella atomus	-	-	-	2
Cyclotella meneghiniana	7	-	1	5
Cyclotella pseudostelligera	-	-	-	-
Cymbella	-	-	-	-
Cymbella aspera	-	-	-	-
Cymbella subcuspidata	-	-	-	-
Cymbellaceae	-	-	-	2
Cymbellales	-	-	-	-
Diadesmis confervacea	49	49	9	5
Diadesmis contenta	-	-	-	-
Diatoma	-	-	-	-
Diploneis	-	-	-	-
Diploneis oblongella	-	-	-	-
Diploneis ovalis	-	-	-	-
Diploneis parma	-	-	-	-
Diploneis pseudovalis	-	-	-	-
Encyonema	-	-	-	-
Encyonema evergladianum	-	-	-	-
Encyonema minutum	-	-	-	-
Encyonema neomesianum	-	-	-	-
Encyonema silesiacum	-	-	-	7
Encyonopsis microcephala	-	-	-	-
Epithemia	-	-	-	-
Eunotia	11	-	11	8
Eunotia bilunaris	-	-	9	-
Eunotia carolina	-	-	-	-
Eunotia exigua	-	-	-	-
Eunotia flexuosa	-	-	-	-
Eunotia formica	-	-	-	2
Eunotia implicata	-	-	-	-
Eunotia incisa	-	-	-	-
Eunotia meisteri	-	-	-	-
Eunotia minor	-	-	-	-
Eunotia naegelii	-	-	-	2
Eunotia paludosa	-	-	-	-
Eunotia pectinalis	-	-	-	-
Eunotia pectinalis undulata	-	-	-	-
Eunotia rhomboidea	-	-	-	-
Eunotia transfuga	-	-	-	-
Eunotia undulata	-	-	-	-

As Entered / STORET station ->	WAK158LR	22050083	22050040	23010464
Sample date ->	6/19/2008	8/12/2008	8/12/2008	10/8/2008
	Sampleid 65414/PerDialD	Sampleid 65379/PerDialD	Sampleid 65382/PerDialD	Sampleid 65567/PerDialD
Taxon Name / SampleID/PerDialD ->	24471 (# counted)	24479 (# counted)	24482 (# counted)	24491 (# counted)
Eunotia yanomami	-	-	-	-
Eunotia zygodon	-	-	-	-
Fragilaria	-	-	-	-
Fragilaria brevistriata	-	-	-	-
Fragilaria capucina	-	-	-	1
Fragilaria crotonensis	-	-	-	-
Fragilaria javanica	-	-	-	-
Fragilaria pinnata	-	-	-	-
Fragilaria synegrotesca	-	-	-	-
Fragilaria virescens	-	-	-	-
Fragilariaceae	-	4	-	4
Fragilariforma	-	-	-	-
Fragilariforma bicapitata	-	-	-	-
Fragilariforma virescens	-	-	-	-
Fragilariophyceae	-	-	-	-
Frustulia	-	-	-	2
Frustulia rhomboides	-	-	-	-
Frustulia saxonica	-	-	-	-
Frustulia vulgaris	-	-	-	-
Geissleria decussis	-	-	-	-
Gomphonema	-	13	28	20
Gomphonema affine	-	-	-	2
Gomphonema augur	-	-	-	-
Gomphonema clevei	-	-	6	-
Gomphonema gracile	-	1	2	8
Gomphonema grovei lingulatum	-	-	-	-
Gomphonema guaraniarum	-	-	1	-
Gomphonema minutum	-	-	-	-
Gomphonema parvulum	-	9	2	36
Gomphonema truncatum	-	1	-	1
Gomphonema vibrio	-	-	-	-
Gyrosigma	-	2	-	-
Gyrosigma obscurum	-	-	-	-
Hantzschia	-	-	-	-
Hantzschia amphioxys	-	-	-	-
Hippodonta	-	2	-	6
Hippodonta capitata	-	-	-	3
Hippodonta hungarica	-	-	-	1
Karayevia clevei	-	1	4	-
Kobayasiella	-	-	-	-
Lemnicola hungarica	-	-	-	-
Luticola	-	-	-	-
Luticola mutica	-	-	1	-
Melosira	-	-	-	-
Meridion	-	-	-	-
Microcostatus polonarum	-	-	-	-
Navicula	1	40	20	29
Navicula bouillantensis	-	-	-	-

As Entered / STORET station ->	WAK158LR	22050083	22050040	23010464
Sample date ->	6/19/2008	8/12/2008	8/12/2008	10/8/2008
	Sampleid 65414/PerDiaID	Sampleid 65379/PerDiaID	Sampleid 65382/PerDiaID	Sampleid 65567/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24471 (# counted)	24479 (# counted)	24482 (# counted)	24491 (# counted)
Navicula clementis	-	1	-	-
Navicula cocconeiformis	-	-	-	-
Navicula constans	-	-	-	-
Navicula cryptocephala	-	-	3	2
Navicula cryptotenella	-	5	-	29
Navicula decussis	-	-	-	-
Navicula elginensis	-	1	-	11
Navicula festiva	-	-	-	-
Navicula gastrum	-	-	2	-
Navicula germainii	-	-	-	-
Navicula heimansioides	-	-	-	-
Navicula ingenua	-	1	4	-
Navicula kotschyi	-	1	7	-
Navicula longicephala	-	-	1	-
Navicula mediocris	-	-	-	-
Navicula minima	-	6	18	8
Navicula occulta	-	-	-	-
Navicula peregrina	-	-	-	-
Navicula placenta	-	-	-	-
Navicula placentula	-	-	-	-
Navicula porifera	-	-	-	-
Navicula radiosa	-	1	-	3
Navicula rhynchocephala	-	1	-	-
Navicula rostellata	-	-	-	-
Navicula schroeteri	-	-	-	-
Navicula seminulum	-	13	10	22
Navicula tripunctata	-	-	-	-
Navicula vaneeii	-	-	-	-
Navicula viridulacalcis	-	-	2	-
Naviculaceae	-	4	4	-
Naviculales	3	-	-	3
Neidium	-	-	-	-
Neidium alpinum	-	-	-	-
Neidium alpinum quadripunctatum	-	-	-	-
Neidium amphigomphus	-	-	-	-
Neidium binodis	-	-	1	-
Neidium densestriatum	2	-	-	-
Neidium dubium	-	-	-	-
Neidium ladogensis densestriatum	-	-	-	-
Nitzschia	27	57	20	127
Nitzschia amphibia	-	11	14	4
Nitzschia clausii	-	-	-	-
Nitzschia dissipata	-	-	-	-
Nitzschia frustulum	-	-	-	-
Nitzschia gracilis	-	-	-	-
Nitzschia intermedia	-	-	-	4
Nitzschia linearis	-	-	-	-
Nitzschia nana	-	-	-	-

As Entered / STORET station ->	WAK158LR	22050083	22050040	23010464
Sample date ->	6/19/2008	8/12/2008	8/12/2008	10/8/2008
	Sampleid 65414/PerDiaID	Sampleid 65379/PerDiaID	Sampleid 65382/PerDiaID	Sampleid 65567/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24471 (# counted)	24479 (# counted)	24482 (# counted)	24491 (# counted)
Nitzschia palea	-	-	-	-
Nitzschia paleacea	-	-	-	-
Nitzschia palustris	-	-	-	-
Nitzschia reversa	-	1	-	-
Nitzschia scalaris	-	-	-	-
Nitzschia seriata	-	-	-	-
Nitzschia serrata	-	-	-	-
Nitzschia subacicularis	-	-	-	-
Nupela	-	8	14	18
Nupela cymbelloidea	-	-	-	-
Nupela neotropica	-	-	-	10
Opephora	-	-	-	-
Pinnularia	3	1	-	-
Pinnularia acrosphaeria	-	-	-	-
Placoneis	-	-	-	-
Placoneis elginensis	-	-	-	-
Planothidium	7	-	1	1
Planothidium apiculatum	-	-	1	6
Planothidium delicatulum	1	-	-	-
Planothidium frequentissimum	8	5	4	2
Planothidium lanceolatum	-	-	-	-
Planothidium peragalli	-	-	-	-
Planothidium rostratum	-	13	3	4
Pleurosira laevis	-	-	-	-
Psammothidium daonense	-	-	-	-
Psammothidium sacculum	-	-	-	-
Pseudostaurosira brevistriata	-	-	-	-
Rhopalodia	2	1	-	-
Rossithidium	-	1	-	-
Rossithidium pusillium	-	8	4	-
Sellaphora	-	1	-	-
Sellaphora laevissima	-	-	-	-
Sellaphora pupula	-	1	4	2
Stauroneis	-	5	3	1
Stauroneis anceps	-	-	-	-
Stauroneis phoenicenteron	-	-	-	-
Stauroneis prominula	-	-	-	-
Stauroneis smithii	-	-	1	2
Staurosira construens	-	-	-	-
Staurosira elliptica	18	-	-	-
Staurosirella	-	-	-	-
Staurosirella leptostauron	-	-	-	-
Staurosirella pinnata	-	-	-	-
Stenopterobia	-	-	-	-
Stenopterobia delicatissima	-	-	-	-
Stephanodiscus	-	-	-	-
Surirella	-	-	-	-
Surirella angusta	-	-	-	-

As Entered / STORET station ->	WAK158LR	22050083	22050040	23010464
Sample date ->	6/19/2008	8/12/2008	8/12/2008	10/8/2008
Taxon Name / SampleID/PerDiaID ->	Sampleid 65414/PerDiaID 24471 (# counted)	Sampleid 65379/PerDiaID 24479 (# counted)	Sampleid 65382/PerDiaID 24482 (# counted)	Sampleid 65567/PerDiaID 24491 (# counted)
Synedra	-	-	-	-
Synedra acus	-	-	-	-
Synedra fasciculata	-	-	-	-
Synedra ulna	-	-	-	13
Tabellaria	-	-	-	-
Terpsinoe musica	-	-	-	-
Thalassionema	-	-	-	-
Thalassiosira	-	-	-	-
Tryblionella	-	-	-	-
Tryblionella levidensis	-	-	-	-

As Entered / STORET station ->	UNI234LV	CLA246GS	WAK158LR	19010006
Sample date ->	10/16/2008	10/28/2008	11/13/2008	11/12/2008
Taxon Name / SampleID/PerDiaID ->	Sampleid 65637/PerDiaID 24513 (# counted)	Sampleid 65636/PerDiaID 24518 (# counted)	Sampleid 65715/PerDiaID 24541 (# counted)	Sampleid 65731/PerDiaID 24544 (# counted)
Achnanthaceae	-	-	-	-
Achnanthales	-	-	-	-
Achnanthes	2	25	16	1
Achnanthes clevei	-	-	-	-
Achnanthes exigua	-	-	-	-
Achnanthes fluviatilis	1	4	4	-
Achnanthes hungarica	-	-	-	-
Achnanthes lanceolata	-	-	-	-
Achnanthes lanceolata apiculata	-	-	-	-
Achnanthes lanceolata frequentissima	-	-	-	-
Achnanthes lanceolata rostrata	-	-	-	-
Achnanthes minutissima	-	-	-	-
Achnanthes peragalli	-	-	-	-
Achnanthes rupestoides	-	-	-	-
Achnanthidiaceae	-	4	-	-
Achnanthidium	1	-	13	-
Achnanthidium exiguum	14	3	70	57
Achnanthidium microcephalum	-	-	-	-
Achnanthidium minutissimum	-	-	9	-
Actinella	-	-	-	-
Amphipleura pellucida	-	-	-	-
Amphora	-	1	4	-
Amphora copulata	-	-	-	-
Amphora libyca	-	-	-	-
Amphora veneta	-	-	-	-
Anorthoneis	-	-	-	-
Asterionella	-	-	-	-
Aulacoseira	78	60	103	16
Aulacoseira granulata	3	-	-	-
Aulacoseira herzogii	-	-	-	-
Bacillaria paxillifer	-	-	-	1
Bacillariophyceae	-	2	-	-
Bacillariophyta	-	-	-	-
Brachysira	-	-	-	-
Brachysira brebissonii	-	-	-	-
Brachysira microcephala	-	-	-	-
Brachysira vitrea	-	-	-	-
Caloneis	12	2	-	-
Caloneis bacillum	-	-	-	-
Capartogramma crucicula	-	-	-	1
Cavinula	-	1	-	-
Cavinula cocconeiformis	4	2	-	-
Cavinula jaernefeltii	-	-	-	-
Chamaepinnularia margaritiana	-	-	38	-
Chamaepinnularia minutissima	-	-	10	-
Cocconeis	-	-	-	7
Cocconeis disculus	-	-	-	-
Cocconeis fluviatilis	-	-	-	2

As Entered / STORET station ->	UNI234LV	CLA246GS	WAK158LR	19010006
Sample date ->	10/16/2008	10/28/2008	11/13/2008	11/12/2008
Taxon Name / SampleID/PerDiaID ->	Sampleid 65637/PerDiaID 24513 (# counted)	Sampleid 65636/PerDiaID 24518 (# counted)	Sampleid 65715/PerDiaID 24541 (# counted)	Sampleid 65731/PerDiaID 24544 (# counted)
Cocconeis pediculus	-	-	-	-
Cocconeis placentula	-	-	-	61
Cocconeis pseudothumensis	-	2	-	-
Coscinodiscophyceae	3	-	-	-
Craticula	-	-	-	5
Craticula minusculoides	-	-	-	-
Cyclostephanos invisitatus	1	-	-	-
Cyclotella	2	-	-	-
Cyclotella atomus	3	-	-	-
Cyclotella meneghiniana	7	-	-	3
Cyclotella pseudostelligera	1	-	-	-
Cymbella	-	-	-	-
Cymbella aspera	-	-	-	-
Cymbella subcuspidata	-	-	-	-
Cymbellaceae	-	-	-	-
Cymbellales	-	-	-	-
Diadesmis confervacea	14	-	69	24
Diadesmis contenta	-	2	-	-
Diatoma	-	-	-	-
Diploneis	-	-	-	-
Diploneis oblongella	-	-	1	-
Diploneis ovalis	-	-	-	-
Diploneis parma	1	-	-	-
Diploneis pseudovalis	-	-	-	-
Encyonema	-	-	-	-
Encyonema evergladianum	-	-	-	-
Encyonema minutum	-	2	-	1
Encyonema neomesianum	-	-	4	-
Encyonema silesiacum	-	5	1	-
Encyonopsis microcephala	-	-	-	-
Epithemia	-	-	-	-
Eunotia	64	87	1	12
Eunotia bilunaris	7	3	-	2
Eunotia carolina	-	-	-	-
Eunotia exigua	-	-	-	-
Eunotia flexuosa	-	3	-	-
Eunotia formica	3	-	-	-
Eunotia implicata	-	-	-	-
Eunotia incisa	-	3	-	-
Eunotia meisteri	-	-	-	-
Eunotia minor	-	-	-	-
Eunotia naegelii	-	2	-	-
Eunotia paludosa	3	9	-	-
Eunotia pectinalis	-	-	-	-
Eunotia pectinalis undulata	-	-	-	-
Eunotia rhomboidea	2	1	-	-
Eunotia transfuga	-	-	-	-
Eunotia undulata	-	-	-	-

As Entered / STORET station ->	UNI234LV	CLA246GS	WAK158LR	19010006
Sample date ->	10/16/2008	10/28/2008	11/13/2008	11/12/2008
Taxon Name / SampleID/PerDiaID ->	Sampleid 65637/PerDiaID 24513 (# counted)	Sampleid 65636/PerDiaID 24518 (# counted)	Sampleid 65715/PerDiaID 24541 (# counted)	Sampleid 65731/PerDiaID 24544 (# counted)
Eunotia yanomami	-	-	-	-
Eunotia zygodon	-	-	-	-
Fragilaria	-	-	-	-
Fragilaria brevistriata	-	-	-	-
Fragilaria capucina	-	3	-	-
Fragilaria crotonensis	-	-	-	-
Fragilaria javanica	-	-	-	-
Fragilaria pinnata	-	-	-	-
Fragilaria synegrotesca	-	-	-	-
Fragilaria virescens	-	-	-	-
Fragilariaceae	4	2	9	42
Fragilariforma	-	-	-	1
Fragilariforma bicapitata	-	1	-	-
Fragilariforma virescens	-	-	-	-
Fragilariophyceae	-	-	-	-
Frustulia	4	19	-	1
Frustulia rhomboides	-	-	-	-
Frustulia saxonica	-	-	-	-
Frustulia vulgaris	-	3	-	-
Geissleria decussis	-	-	-	-
Gomphonema	3	2	-	3
Gomphonema affine	-	-	-	-
Gomphonema augur	-	-	-	-
Gomphonema clevei	-	-	-	-
Gomphonema gracile	-	-	-	-
Gomphonema grovei lingulatum	-	-	-	-
Gomphonema guaraniarum	1	-	-	-
Gomphonema minutum	-	-	-	-
Gomphonema parvulum	1	1	-	-
Gomphonema truncatum	-	-	-	-
Gomphonema vibrio	-	-	-	-
Gyrosigma	-	-	-	-
Gyrosigma obscurum	-	-	-	-
Hantzschia	-	-	-	-
Hantzschia amphioxys	1	-	-	-
Hippodonta	-	-	-	2
Hippodonta capitata	-	-	-	-
Hippodonta hungarica	3	4	-	-
Karayevia clevei	-	-	-	-
Kobayasiella	1	3	-	2
Lemnicola hungarica	1	-	-	-
Luticola	17	1	-	-
Luticola mutica	-	-	-	1
Melosira	-	1	-	-
Meridion	1	-	-	-
Microcostatus polonarum	-	-	-	-
Navicula	18	11	6	3
Navicula bouillantensis	-	-	-	-

As Entered / STORET station ->	UNI234LV	CLA246GS	WAK158LR	19010006
Sample date ->	10/16/2008	10/28/2008	11/13/2008	11/12/2008
Taxon Name / SampleID/PerDiaID ->	Sampleid 65637/PerDiaID 24513 (# counted)	Sampleid 65636/PerDiaID 24518 (# counted)	Sampleid 65715/PerDiaID 24541 (# counted)	Sampleid 65731/PerDiaID 24544 (# counted)
Navicula clementis	-	-	-	4
Navicula cocconeiformis	-	-	-	-
Navicula constans	-	-	-	-
Navicula cryptocephala	-	-	-	-
Navicula cryptotenella	-	-	-	-
Navicula decussis	-	-	-	-
Navicula elginensis	-	-	-	-
Navicula festiva	3	-	-	-
Navicula gastrum	1	-	-	2
Navicula germainii	-	1	-	-
Navicula heimansioides	-	-	-	-
Navicula ingenua	-	-	-	-
Navicula kotschyi	1	-	-	-
Navicula longicephala	2	1	-	-
Navicula mediocris	-	2	-	-
Navicula minima	-	7	1	8
Navicula occulta	1	1	-	-
Navicula peregrina	-	-	-	-
Navicula placenta	-	-	-	4
Navicula placentula	1	-	-	-
Navicula porifera	-	-	-	-
Navicula radiosa	-	-	-	-
Navicula rhynchocephala	-	-	-	-
Navicula rostellata	-	-	-	-
Navicula schroeteri	-	-	-	-
Navicula seminulum	8	50	2	13
Navicula tripunctata	-	-	-	-
Navicula vaneeii	-	-	-	-
Navicula viridulacalcis	-	-	-	-
Naviculaceae	2	6	6	6
Naviculales	-	-	-	-
Neidium	-	-	-	7
Neidium alpinum	-	6	-	-
Neidium alpinum quadripunctatum	-	1	-	-
Neidium amphigomphus	-	-	-	-
Neidium binodis	-	-	-	-
Neidium densestriatum	3	-	1	7
Neidium dubium	-	-	-	-
Neidium ladogensis densestriatum	-	-	-	-
Nitzschia	8	23	22	105
Nitzschia amphibia	-	-	-	-
Nitzschia clausii	-	-	-	-
Nitzschia dissipata	-	-	-	-
Nitzschia frustulum	-	-	-	-
Nitzschia gracilis	-	-	-	-
Nitzschia intermedia	-	-	-	-
Nitzschia linearis	-	-	-	-
Nitzschia nana	-	1	-	-

As Entered / STORET station ->	UNI234LV	CLA246GS	WAK158LR	19010006
Sample date ->	10/16/2008	10/28/2008	11/13/2008	11/12/2008
Taxon Name / SampleID/PerDiaID ->	Sampleid 65637/PerDiaID 24513 (# counted)	Sampleid 65636/PerDiaID 24518 (# counted)	Sampleid 65715/PerDiaID 24541 (# counted)	Sampleid 65731/PerDiaID 24544 (# counted)
Nitzschia palea	-	9	-	30
Nitzschia paleacea	-	-	-	-
Nitzschia palustris	13	-	-	-
Nitzschia reversa	-	-	-	-
Nitzschia scalaris	-	-	-	-
Nitzschia seriata	-	-	-	-
Nitzschia serrata	-	-	-	2
Nitzschia subacicularis	2	-	-	-
Nupela	103	64	37	5
Nupela cymbelloidea	-	-	-	-
Nupela neotropica	-	-	8	-
Opephora	-	1	-	-
Pinnularia	52	28	11	34
Pinnularia acrosphaeria	-	-	-	-
Placoneis	-	-	-	-
Placoneis elginensis	-	1	-	-
Planothidium	1	2	4	2
Planothidium apiculatum	2	5	11	5
Planothidium delicatulum	-	-	-	-
Planothidium frequentissimum	-	-	3	4
Planothidium lanceolatum	-	-	-	-
Planothidium peragalli	-	-	-	-
Planothidium rostratum	2	-	5	-
Pleurosira laevis	-	-	-	-
Psammothidium daonense	-	-	-	-
Psammothidium sacculum	-	-	4	-
Pseudostaurosira brevistriata	-	-	1	-
Rhopalodia	-	3	5	-
Rossithidium	-	-	-	-
Rossithidium pusillium	-	8	2	1
Sellaphora	3	-	1	-
Sellaphora laevissima	-	-	-	-
Sellaphora pupula	3	1	-	1
Stauroneis	2	3	1	5
Stauroneis anceps	-	-	-	-
Stauroneis phoenicenteron	3	2	-	-
Stauroneis prominula	-	-	-	-
Stauroneis smithii	-	-	-	-
Staurosira construens	-	-	-	-
Staurosira elliptica	-	-	9	1
Staurosirella	-	-	-	-
Staurosirella leptostauron	-	-	-	-
Staurosirella pinnata	-	2	-	6
Stenopterobia	-	-	-	-
Stenopterobia delicatissima	-	-	4	-
Stephanodiscus	4	-	-	-
Surirella	-	-	3	-
Surirella angusta	-	-	-	-

As Entered / STORET station ->	UNI234LV	CLA246GS	WAK158LR	19010006
Sample date ->	10/16/2008	10/28/2008	11/13/2008	11/12/2008
Taxon Name / SampleID/PerDiaID ->	Sampleid 65637/PerDiaID 24513 (# counted)	Sampleid 65636/PerDiaID 24518 (# counted)	Sampleid 65715/PerDiaID 24541 (# counted)	Sampleid 65731/PerDiaID 24544 (# counted)
Synedra	-	-	-	-
Synedra acus	-	-	-	-
Synedra fasciculata	-	-	-	-
Synedra ulna	-	-	-	-
Tabellaria	-	-	-	-
Terpsinoe musica	-	-	-	-
Thalassionema	-	-	-	-
Thalassiosira	-	-	1	-
Tryblionella	-	-	-	2
Tryblionella levidensis	-	-	-	-

As Entered / STORET station ->	CLA254LR	CLA243LV	NUTREF001	GAD106GS
Sample date ->	11/6/2008	11/6/2008	11/20/2008	11/20/2008
	Sampleid 65736/PerDiaID	Sampleid 65737/PerDiaID	Sampleid 65739/PerDiaID	Sampleid 65741/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24548 (# counted)	24549 (# counted)	24551 (# counted)	24553 (# counted)
Achnanthaceae	-	-	-	-
Achnanthales	-	-	-	-
Achnanthes	11	4	-	-
Achnanthes clevei	-	-	-	-
Achnanthes exigua	-	-	-	-
Achnanthes fluviatilis	8	-	2	1
Achnanthes hungarica	-	-	-	-
Achnanthes lanceolata	-	-	-	-
Achnanthes lanceolata apiculata	-	-	-	-
Achnanthes lanceolata frequentissima	-	-	-	-
Achnanthes lanceolata rostrata	-	-	-	-
Achnanthes minutissima	-	-	-	-
Achnanthes peragalli	-	-	-	-
Achnanthes rupestoides	27	-	1	4
Achnanthidiaceae	-	-	-	-
Achnanthidium	-	1	6	9
Achnanthidium exiguum	5	-	9	3
Achnanthidium microcephalum	-	-	-	-
Achnanthidium minutissimum	1	1	-	1
Actinella	-	2	3	1
Amphipleura pellucida	-	-	-	-
Amphora	-	-	1	-
Amphora copulata	-	-	-	-
Amphora libyca	-	-	-	-
Amphora veneta	-	-	-	-
Anorthoneis	-	-	-	-
Asterionella	-	-	-	-
Aulacoseira	6	-	7	1
Aulacoseira granulata	-	-	-	-
Aulacoseira herzogii	-	-	-	-
Bacillaria paxillifer	-	-	-	-
Bacillariophyceae	-	-	-	-
Bacillariophyta	-	-	-	-
Brachysira	-	-	-	1
Brachysira brebissonii	-	-	-	-
Brachysira microcephala	-	-	-	-
Brachysira vitrea	-	-	1	-
Caloneis	2	2	3	1
Caloneis bacillum	-	-	-	-
Capartogramma crucicula	-	-	-	-
Cavinula	-	-	-	-
Cavinula cocconeiformis	-	10	3	1
Cavinula jaernefeltii	2	7	-	-
Chamaepinnularia margaritiana	-	-	-	-
Chamaepinnularia minutissima	-	-	-	5
Cocconeis	13	-	-	-
Cocconeis disculus	-	-	-	-
Cocconeis fluviatilis	-	-	-	-

As Entered / STORET station ->	CLA254LR	CLA243LV	NUTREF001	GAD106GS
Sample date ->	11/6/2008	11/6/2008	11/20/2008	11/20/2008
Taxon Name / SampleID/PerDiaID ->	Sampleid 65736/PerDiaID 24548 (# counted)	Sampleid 65737/PerDiaID 24549 (# counted)	Sampleid 65739/PerDiaID 24551 (# counted)	Sampleid 65741/PerDiaID 24553 (# counted)
Cocconeis pediculus	-	-	-	-
Cocconeis placentula	9	-	-	-
Cocconeis pseudothumensis	-	-	-	-
Coscinodiscophyceae	-	-	-	-
Craticula	7	1	15	18
Craticula minusculoides	-	-	-	-
Cyclostephanos invisitatus	-	-	-	-
Cyclotella	-	-	-	-
Cyclotella atomus	-	-	1	-
Cyclotella meneghiniana	-	-	-	-
Cyclotella pseudostelligera	-	-	2	1
Cymbella	-	-	-	-
Cymbella aspera	-	-	-	-
Cymbella subcuspidata	-	-	2	-
Cymbellaceae	-	-	-	-
Cymbellales	-	-	-	-
Diadesmis confervacea	1	-	-	-
Diadesmis contenta	-	-	7	2
Diatoma	-	2	-	-
Diploneis	-	-	-	-
Diploneis oblongella	-	-	-	-
Diploneis ovalis	-	-	-	-
Diploneis parma	-	-	1	-
Diploneis pseudovalis	-	-	-	-
Encyonema	-	-	1	1
Encyonema evergladianum	-	-	-	-
Encyonema minutum	2	-	-	-
Encyonema neomesianum	-	-	-	-
Encyonema silesiacum	3	-	-	2
Encyonopsis microcephala	-	-	-	-
Epithemia	-	-	-	-
Eunotia	118	264	64	105
Eunotia bilunaris	-	1	2	2
Eunotia carolina	-	-	-	-
Eunotia exigua	-	-	-	-
Eunotia flexuosa	-	-	-	-
Eunotia formica	-	-	-	-
Eunotia implicata	-	-	-	-
Eunotia incisa	2	2	-	-
Eunotia meisteri	-	-	1	1
Eunotia minor	-	-	-	-
Eunotia naegelii	-	-	-	-
Eunotia paludosa	-	3	3	1
Eunotia pectinalis	-	-	-	-
Eunotia pectinalis undulata	-	-	-	-
Eunotia rhomboidea	-	-	-	1
Eunotia transfuga	-	-	-	-
Eunotia undulata	1	-	-	2

As Entered / STORET station ->	CLA254LR	CLA243LV	NUTREF001	GAD106GS
Sample date ->	11/6/2008	11/6/2008	11/20/2008	11/20/2008
Taxon Name / SampleID/PerDiaID ->	Sampleid 65736/PerDiaID 24548 (# counted)	Sampleid 65737/PerDiaID 24549 (# counted)	Sampleid 65739/PerDiaID 24551 (# counted)	Sampleid 65741/PerDiaID 24553 (# counted)
Eunotia yanomami	-	3	-	-
Eunotia zygodon	-	-	-	-
Fragilaria	-	-	-	-
Fragilaria brevistriata	-	-	-	-
Fragilaria capucina	-	-	-	-
Fragilaria crotonensis	-	-	-	-
Fragilaria javanica	-	-	-	-
Fragilaria pinnata	-	-	-	-
Fragilaria synegrotesca	-	-	-	-
Fragilaria virescens	-	-	-	-
Fragilariaceae	7	-	-	-
Fragilariforma	-	5	-	8
Fragilariforma bicapitata	-	-	-	-
Fragilariforma virescens	1	-	-	-
Fragilariophyceae	-	-	-	-
Frustulia	95	11	7	22
Frustulia rhomboides	-	-	-	-
Frustulia saxonica	-	-	-	-
Frustulia vulgaris	2	-	15	4
Geissleria decussis	1	-	-	-
Gomphonema	2	1	3	-
Gomphonema affine	-	-	-	-
Gomphonema augur	-	-	-	-
Gomphonema clevei	-	-	-	-
Gomphonema gracile	-	-	-	-
Gomphonema grovei lingulatum	-	-	-	-
Gomphonema guaraniarum	-	-	-	-
Gomphonema minutum	-	-	-	-
Gomphonema parvulum	4	-	2	8
Gomphonema truncatum	-	-	-	-
Gomphonema vibrio	-	-	-	-
Gyrosigma	-	-	-	-
Gyrosigma obscurum	-	-	-	-
Hantzschia	-	-	-	-
Hantzschia amphioxys	-	-	-	-
Hippodonta	-	2	-	-
Hippodonta capitata	-	-	1	-
Hippodonta hungarica	3	-	4	1
Karayevia clevei	-	-	1	-
Kobayasiella	-	1	9	4
Lemnicola hungarica	-	-	-	-
Luticola	2	-	1	-
Luticola mutica	1	-	1	-
Melosira	-	-	-	-
Meridion	-	-	-	-
Microcostatus polonarum	-	-	23	16
Navicula	14	1	13	17
Navicula bouillantensis	-	-	-	-

As Entered / STORET station ->	CLA254LR	CLA243LV	NUTREF001	GAD106GS
Sample date ->	11/6/2008	11/6/2008	11/20/2008	11/20/2008
	Sampleid 65736/PerDialD	Sampleid 65737/PerDialD	Sampleid 65739/PerDialD	Sampleid 65741/PerDialD
Taxon Name / SampleID/PerDialD ->	24548 (# counted)	24549 (# counted)	24551 (# counted)	24553 (# counted)
Navicula clementis	-	2	-	-
Navicula cocconeiformis	-	-	-	-
Navicula constans	-	-	-	-
Navicula cryptocephala	2	-	4	1
Navicula cryptotenella	-	-	1	2
Navicula decussis	-	-	-	-
Navicula elginensis	-	-	-	-
Navicula festiva	-	-	1	-
Navicula gastrum	-	-	-	-
Navicula germainii	1	-	-	-
Navicula heimansioides	-	-	-	-
Navicula ingenua	-	-	-	-
Navicula kotschyi	-	-	-	-
Navicula longicephala	2	-	2	-
Navicula mediocris	-	1	-	1
Navicula minima	7	6	12	-
Navicula occulta	-	-	-	-
Navicula peregrina	-	-	-	-
Navicula placenta	-	-	-	-
Navicula placentula	-	-	-	-
Navicula porifera	-	-	-	-
Navicula radiosa	1	-	1	3
Navicula rhynchocephala	-	-	1	-
Navicula rostellata	-	-	-	-
Navicula schroeteri	-	-	-	-
Navicula seminulum	12	1	22	2
Navicula tripunctata	-	-	-	-
Navicula vaneeii	-	-	-	-
Navicula viridulacalcis	-	-	-	-
Naviculaceae	27	3	19	10
Naviculales	-	-	-	-
Neidium	-	-	2	5
Neidium alpinum	-	-	-	1
Neidium alpinum quadripunctatum	-	-	3	2
Neidium amphigomphus	1	-	-	-
Neidium binodis	-	-	-	-
Neidium densestriatum	-	11	1	1
Neidium dubium	-	-	-	-
Neidium ladogensis densestriatum	-	-	-	-
Nitzschia	4	38	43	55
Nitzschia amphibia	-	-	-	-
Nitzschia clausii	-	-	-	-
Nitzschia dissipata	2	-	1	1
Nitzschia frustulum	-	-	-	-
Nitzschia gracilis	-	-	-	-
Nitzschia intermedia	-	-	-	-
Nitzschia linearis	-	-	-	-
Nitzschia nana	-	-	-	1

As Entered / STORET station ->	CLA254LR	CLA243LV	NUTREF001	GAD106GS
Sample date ->	11/6/2008	11/6/2008	11/20/2008	11/20/2008
	Sampleid 65736/PerDiaID	Sampleid 65737/PerDiaID	Sampleid 65739/PerDiaID	Sampleid 65741/PerDiaID
Taxon Name / SampleID/PerDiaID ->	24548 (# counted)	24549 (# counted)	24551 (# counted)	24553 (# counted)
Nitzschia palea	-	-	2	-
Nitzschia paleacea	-	-	-	-
Nitzschia palustris	-	-	-	-
Nitzschia reversa	-	-	-	-
Nitzschia scalaris	-	-	-	-
Nitzschia seriata	-	-	-	1
Nitzschia serrata	-	3	-	-
Nitzschia subacicularis	-	-	-	-
Nupela	36	67	52	46
Nupela cymbelloidea	-	-	-	-
Nupela neotropica	-	6	-	-
Opephora	-	-	-	-
Pinnularia	7	27	27	54
Pinnularia acrosphaeria	-	-	-	-
Placoneis	-	-	-	-
Placoneis elginensis	-	-	-	-
Planothidium	12	1	45	10
Planothidium apiculatum	17	1	3	3
Planothidium delicatulum	-	-	-	-
Planothidium frequentissimum	-	-	-	22
Planothidium lanceolatum	-	-	11	-
Planothidium peragalli	2	-	8	-
Planothidium rostratum	6	-	-	-
Pleurosira laevis	-	-	-	-
Psammothidium daonense	-	-	6	7
Psammothidium sacculum	-	-	1	14
Pseudostaurosira brevistriata	-	-	-	-
Rhopalodia	-	-	-	-
Rossithidium	-	-	-	-
Rossithidium pusillium	-	-	5	-
Sellaphora	-	-	-	2
Sellaphora laevissima	-	-	-	1
Sellaphora pupula	-	-	3	3
Stauroneis	2	6	6	6
Stauroneis anceps	3	-	-	-
Stauroneis phoenicenteron	-	-	-	2
Stauroneis prominula	-	-	-	-
Stauroneis smithii	-	2	-	-
Staurosira construens	-	-	-	-
Staurosira elliptica	-	-	-	-
Staurosirella	-	-	-	-
Staurosirella leptostauron	-	-	-	-
Staurosirella pinnata	1	-	1	-
Stenopterobia	-	-	-	-
Stenopterobia delicatissima	3	-	-	-
Stephanodiscus	-	-	-	-
Surirella	2	-	1	-
Surirella angusta	-	-	-	-

As Entered / STORET station ->	CLA254LR	CLA243LV	NUTREF001	GAD106GS
Sample date ->	11/6/2008	11/6/2008	11/20/2008	11/20/2008
Taxon Name / SampleID/PerDiaID ->	Sampleid 65736/PerDiaID 24548 (# counted)	Sampleid 65737/PerDiaID 24549 (# counted)	Sampleid 65739/PerDiaID 24551 (# counted)	Sampleid 65741/PerDiaID 24553 (# counted)
Synedra	-	-	-	-
Synedra acus	-	-	-	-
Synedra fasciculata	-	-	-	-
Synedra ulna	-	-	1	-
Tabellaria	-	-	-	-
Terpsinoe musica	-	-	-	-
Thalassionema	-	-	-	-
Thalassiosira	-	-	-	-
Tryblionella	-	1	-	-
Tryblionella levidensis	-	-	-	-

As Entered / STORET station ->	GLA630GS	24010002	273116508208152	22050083
Sample date ->	12/16/2008	12/17/2008	12/17/2008	1/14/2009
Taxon Name / SampleID/PerDiaID ->	Sampleid 65891/PerDiaID 24591 (# counted)	Sampleid 65900/PerDiaID 24599 (# counted)	Sampleid 65907/PerDiaID 24600 (# counted)	Sampleid 65931/PerDiaID 24605 (# counted)
Achnanthaceae	-	-	-	-
Achnanthales	-	-	-	-
Achnanthes	3	-	-	-
Achnanthes clevei	-	-	-	-
Achnanthes exigua	-	-	-	-
Achnanthes fluviatilis	3	-	-	7
Achnanthes hungarica	-	-	-	-
Achnanthes lanceolata	-	-	-	-
Achnanthes lanceolata apiculata	-	-	-	-
Achnanthes lanceolata frequentissima	-	-	-	-
Achnanthes lanceolata rostrata	-	-	-	-
Achnanthes minutissima	-	-	-	-
Achnanthes peragalli	-	-	-	-
Achnanthes rupestoides	-	-	-	177
Achnanthidiaceae	-	-	-	-
Achnanthidium	-	-	-	-
Achnanthidium exiguum	-	4	24	10
Achnanthidium microcephalum	-	-	-	1
Achnanthidium minutissimum	-	-	1	4
Actinella	-	-	-	-
Amphipleura pellucida	-	-	-	5
Amphora	-	-	-	-
Amphora copulata	-	-	-	-
Amphora libyca	-	-	-	-
Amphora veneta	-	-	-	-
Anorthoneis	-	-	-	-
Asterionella	-	-	-	-
Aulacoseira	-	-	-	3
Aulacoseira granulata	-	-	-	-
Aulacoseira herzogii	-	-	-	-
Bacillaria paxillifer	-	4	7	-
Bacillariophyceae	-	-	-	-
Bacillariophyta	-	-	-	-
Brachysira	-	-	-	-
Brachysira brebissonii	-	-	-	-
Brachysira microcephala	-	-	-	2
Brachysira vitrea	-	-	-	-
Caloneis	1	-	-	-
Caloneis bacillum	-	-	-	-
Capartogramma crucicula	-	-	-	-
Cavinula	-	-	-	-
Cavinula cocconeiformis	-	-	-	-
Cavinula jaernefeltii	-	-	-	-
Chamaepinnularia margaritiana	-	-	-	-
Chamaepinnularia minutissima	-	-	-	-
Cocconeis	-	3	4	2
Cocconeis disculus	-	-	-	-
Cocconeis fluviatilis	-	-	34	-

As Entered / STORET station ->	GLA630GS	24010002	273116508208152	22050083
Sample date ->	12/16/2008	12/17/2008	12/17/2008	1/14/2009
Taxon Name / SampleID/PerDiaID ->	Sampleid 65891/PerDiaID 24591 (# counted)	Sampleid 65900/PerDiaID 24599 (# counted)	Sampleid 65907/PerDiaID 24600 (# counted)	Sampleid 65931/PerDiaID 24605 (# counted)
Cocconeis pediculus	-	-	-	-
Cocconeis placentula	-	2	3	102
Cocconeis pseudothumensis	-	-	-	-
Coscinodiscophyceae	-	-	-	-
Craticula	4	-	2	-
Craticula minusculoides	-	-	-	-
Cyclostephanos invisitatus	-	-	-	-
Cyclotella	-	1	-	-
Cyclotella atomus	-	-	-	-
Cyclotella meneghiniana	-	-	-	3
Cyclotella pseudostelligera	-	-	-	-
Cymbella	-	-	-	-
Cymbella aspera	-	-	-	1
Cymbella subcuspidata	-	-	-	-
Cymbellaceae	-	-	-	-
Cymbellales	-	-	-	-
Diadesmis confervacea	6	6	3	-
Diadesmis contenta	1	-	1	1
Diatoma	-	-	-	-
Diploneis	-	-	2	-
Diploneis oblongella	-	-	-	-
Diploneis ovalis	-	-	-	-
Diploneis parma	-	-	1	-
Diploneis pseudovalis	-	-	-	-
Encyonema	1	-	-	-
Encyonema evergladianum	-	-	-	-
Encyonema minutum	-	-	1	-
Encyonema neomesianum	5	-	-	-
Encyonema silesiacum	81	-	-	-
Encyonopsis microcephala	-	-	-	1
Epithemia	-	-	-	4
Eunotia	181	-	6	1
Eunotia bilunaris	-	-	1	2
Eunotia carolina	-	-	-	-
Eunotia exigua	-	-	-	-
Eunotia flexuosa	-	-	-	-
Eunotia formica	-	-	1	-
Eunotia implicata	-	-	-	-
Eunotia incisa	-	-	-	-
Eunotia meisteri	-	-	-	-
Eunotia minor	-	-	-	-
Eunotia naegelii	-	-	-	-
Eunotia paludosa	-	-	-	-
Eunotia pectinalis	-	-	-	-
Eunotia pectinalis undulata	-	-	-	-
Eunotia rhomboidea	-	-	1	-
Eunotia transfuga	-	-	-	-
Eunotia undulata	-	-	-	-

As Entered / STORET station ->	GLA630GS	24010002	273116508208152	22050083
Sample date ->	12/16/2008	12/17/2008	12/17/2008	1/14/2009
Taxon Name / SampleID/PerDiaID ->	Sampleid 65891/PerDiaID 24591 (# counted)	Sampleid 65900/PerDiaID 24599 (# counted)	Sampleid 65907/PerDiaID 24600 (# counted)	Sampleid 65931/PerDiaID 24605 (# counted)
Eunotia yanomami	-	-	-	-
Eunotia zygodon	-	-	-	-
Fragilaria	-	-	-	-
Fragilaria brevistriata	-	-	-	-
Fragilaria capucina	-	-	-	-
Fragilaria crotonensis	-	-	-	-
Fragilaria javanica	-	-	-	-
Fragilaria pinnata	-	-	-	-
Fragilaria synegrotesca	-	-	-	-
Fragilaria virescens	-	-	-	-
Fragilariaceae	-	22	98	2
Fragilariforma	-	-	-	-
Fragilariforma bicapitata	-	-	-	-
Fragilariforma virescens	-	-	-	-
Fragilariophyceae	-	-	-	-
Frustulia	6	-	-	-
Frustulia rhomboides	-	-	-	-
Frustulia saxonica	-	-	-	-
Frustulia vulgaris	3	-	-	1
Geissleria decussis	-	2	-	-
Gomphonema	1	4	1	2
Gomphonema affine	-	-	-	2
Gomphonema augur	-	-	-	-
Gomphonema clevei	-	-	-	-
Gomphonema gracile	2	-	-	1
Gomphonema grovei lingulatum	-	-	-	-
Gomphonema guaraniarum	-	-	-	-
Gomphonema minutum	-	-	-	2
Gomphonema parvulum	-	-	-	4
Gomphonema truncatum	-	-	-	-
Gomphonema vibrio	-	-	-	-
Gyrosigma	-	-	-	-
Gyrosigma obscurum	-	-	-	-
Hantzschia	-	-	-	-
Hantzschia amphioxys	-	-	-	-
Hippodonta	-	2	6	-
Hippodonta capitata	-	2	11	-
Hippodonta hungarica	1	1	11	-
Karayevia clevei	-	2	11	3
Kobayasiella	7	-	-	1
Lemnicola hungarica	-	-	-	7
Luticola	-	-	-	-
Luticola mutica	-	-	-	-
Melosira	-	384	2	-
Meridion	-	-	-	-
Microcostatus polonarum	-	-	-	-
Navicula	13	3	44	13
Navicula bouillantensis	-	-	-	1

As Entered / STORET station ->	GLA630GS	24010002	273116508208152	22050083
Sample date ->	12/16/2008	12/17/2008	12/17/2008	1/14/2009
Taxon Name / SampleID/PerDiaID ->	Sampleid 65891/PerDiaID 24591 (# counted)	Sampleid 65900/PerDiaID 24599 (# counted)	Sampleid 65907/PerDiaID 24600 (# counted)	Sampleid 65931/PerDiaID 24605 (# counted)
Navicula clementis	-	-	1	-
Navicula cocconeiformis	-	-	-	-
Navicula constans	1	-	1	-
Navicula cryptocephala	-	-	-	2
Navicula cryptotenella	-	-	-	2
Navicula decussis	-	-	-	-
Navicula elginensis	-	-	-	-
Navicula festiva	1	-	-	-
Navicula gastrum	1	-	5	-
Navicula germainii	-	4	25	-
Navicula heimansioides	-	-	-	4
Navicula ingenua	-	-	-	1
Navicula kotschyi	-	-	-	-
Navicula longicephala	-	1	4	-
Navicula mediocris	-	-	-	-
Navicula minima	1	-	1	6
Navicula occulta	-	-	-	-
Navicula peregrina	-	5	-	-
Navicula placenta	-	-	-	-
Navicula placentula	-	-	-	-
Navicula porifera	-	-	1	-
Navicula radiosa	-	-	2	-
Navicula rhynchocephala	-	-	-	-
Navicula rostellata	-	-	-	-
Navicula schroeteri	-	-	-	-
Navicula seminulum	-	-	-	5
Navicula tripunctata	-	-	6	-
Navicula vaneeii	-	1	-	-
Navicula viridulacalcis	-	-	-	-
Naviculaceae	-	-	5	4
Naviculales	-	-	-	-
Neidium	-	-	-	-
Neidium alpinum	-	-	-	-
Neidium alpinum quadripunctatum	1	-	-	-
Neidium amphigomphus	-	-	-	-
Neidium binodis	-	-	-	-
Neidium densestriatum	-	-	-	-
Neidium dubium	-	-	-	-
Neidium ladogensis densestriatum	-	-	-	-
Nitzschia	31	10	31	8
Nitzschia amphibia	-	-	-	17
Nitzschia clausii	-	-	1	-
Nitzschia dissipata	-	-	-	4
Nitzschia frustulum	-	-	-	-
Nitzschia gracilis	-	-	-	-
Nitzschia intermedia	-	-	-	-
Nitzschia linearis	-	-	-	-
Nitzschia nana	5	-	-	-

As Entered / STORET station ->	GLA630GS	24010002	273116508208152	22050083
Sample date ->	12/16/2008	12/17/2008	12/17/2008	1/14/2009
Taxon Name / SampleID/PerDiaID ->	Sampleid 65891/PerDiaID 24591 (# counted)	Sampleid 65900/PerDiaID 24599 (# counted)	Sampleid 65907/PerDiaID 24600 (# counted)	Sampleid 65931/PerDiaID 24605 (# counted)
Nitzschia palea	-	-	-	-
Nitzschia paleacea	-	-	-	-
Nitzschia palustris	-	-	-	-
Nitzschia reversa	-	-	-	-
Nitzschia scalaris	-	-	-	-
Nitzschia seriata	-	-	-	-
Nitzschia serrata	-	-	-	-
Nitzschia subacicularis	-	-	-	-
Nupela	58	-	6	6
Nupela cymbelloidea	-	-	-	4
Nupela neotropica	-	-	-	-
Opephora	-	3	4	-
Pinnularia	4	-	3	2
Pinnularia acrosphaeria	-	-	-	-
Placoneis	-	-	-	-
Placoneis elginensis	1	3	6	-
Planothidium	37	8	38	3
Planothidium apiculatum	6	7	12	-
Planothidium delicatulum	-	-	-	-
Planothidium frequentissimum	-	2	6	5
Planothidium lanceolatum	20	-	2	-
Planothidium peragalli	-	-	-	-
Planothidium rostratum	-	8	19	45
Pleurosira laevis	-	-	-	-
Psammothidium daonense	-	-	-	-
Psammothidium sacculum	-	-	-	-
Pseudostaurosira brevistriata	-	-	9	-
Rhopalodia	-	-	-	2
Rossithidium	-	-	-	-
Rossithidium pusillium	9	-	-	4
Sellaphora	-	-	2	-
Sellaphora laevissima	-	-	-	-
Sellaphora pupula	-	-	5	2
Stauroneis	4	-	-	1
Stauroneis anceps	-	-	-	-
Stauroneis phoenicenteron	1	-	-	1
Stauroneis prominula	-	-	5	-
Stauroneis smithii	-	-	-	-
Staurosira construens	-	-	-	-
Staurosira elliptica	-	-	-	-
Staurosirella	-	-	-	-
Staurosirella leptostauron	-	-	-	-
Staurosirella pinnata	-	6	20	-
Stenopterobia	-	-	-	-
Stenopterobia delicatissima	-	-	-	-
Stephanodiscus	-	-	-	-
Surirella	-	-	-	-
Surirella angusta	-	1	1	1

As Entered / STORET station ->	GLA630GS	24010002	273116508208152	22050083
Sample date ->	12/16/2008	12/17/2008	12/17/2008	1/14/2009
Taxon Name / SampleID/PerDiaID ->	Sampleid 65891/PerDiaID 24591 (# counted)	Sampleid 65900/PerDiaID 24599 (# counted)	Sampleid 65907/PerDiaID 24600 (# counted)	Sampleid 65931/PerDiaID 24605 (# counted)
Synedra	-	-	-	-
Synedra acus	-	-	-	-
Synedra fasciculata	-	-	-	-
Synedra ulna	-	-	-	6
Tabellaria	-	-	-	-
Terpsinoe musica	-	-	-	-
Thalassionema	-	-	-	-
Thalassiosira	-	-	3	-
Tryblionella	-	-	-	-
Tryblionella levidensis	-	-	-	-

As Entered / STORET station ->	22050040	LIB104LV	CLA243LV	CLA254LR
Sample date ->	1/14/2009	11/21/2005	11/14/2005	11/14/2005
	Sampleid 65932/PerDiaID	Sampleid 49678/PerID	Sampleid 52997/PerID	Sampleid 53033/PerID
Taxon Name / SampleID/PerDiaID ->	24606 (# counted)	18449 (# counted)	19569 (# counted)	19609 (# counted)
Achnanthaceae	-	-	-	-
Achnanthales	-	-	-	-
Achnanthes	-	-	7	7
Achnanthes clevei	-	-	-	-
Achnanthes exigua	-	-	-	4
Achnanthes fluviatilis	8	-	-	-
Achnanthes hungarica	-	-	-	-
Achnanthes lanceolata	-	-	1	1
Achnanthes lanceolata apiculata	-	-	-	4
Achnanthes lanceolata frequentissima	-	-	-	-
Achnanthes lanceolata rostrata	-	-	-	-
Achnanthes minutissima	-	2	24	33
Achnanthes peragalli	-	-	-	-
Achnanthes rupestoides	52	-	-	3
Achnanthidiaceae	-	-	-	-
Achnanthidium	2	-	-	-
Achnanthidium exiguum	8	-	-	-
Achnanthidium microcephalum	-	-	-	-
Achnanthidium minutissimum	-	-	-	-
Actinella	-	-	-	-
Amphipleura pellucida	-	-	-	-
Amphora	1	-	-	-
Amphora copulata	1	-	-	-
Amphora libyca	-	-	-	-
Amphora veneta	-	-	-	-
Anorthoneis	-	-	-	-
Asterionella	-	-	-	-
Aulacoseira	2	-	2	2
Aulacoseira granulata	-	-	-	-
Aulacoseira herzogii	-	-	-	-
Bacillaria paxillifer	-	-	-	-
Bacillariophyceae	-	23	15	9
Bacillariophyta	-	-	-	-
Brachysira	1	4	-	-
Brachysira brebissonii	-	-	-	-
Brachysira microcephala	-	-	-	-
Brachysira vitrea	-	-	-	-
Caloneis	2	-	-	4
Caloneis bacillum	-	-	-	-
Capartogramma crucicula	-	-	1	-
Cavinula	-	-	-	-
Cavinula cocconeiformis	-	-	-	-
Cavinula jaernefeltii	-	-	-	-
Chamaepinnularia margaritiana	2	-	-	-
Chamaepinnularia minutissima	-	-	-	-
Cocconeis	-	-	-	-
Cocconeis disculus	-	-	-	-
Cocconeis fluviatilis	-	-	-	-

As Entered / STORET station ->	22050040	LIB104LV	CLA243LV	CLA254LR
Sample date ->	1/14/2009	11/21/2005	11/14/2005	11/14/2005
	Sampleid 65932/PerDiaID	Sampleid 49678/PerID	Sampleid 52997/PerID	Sampleid 53033/PerID
Taxon Name / SampleID/PerDiaID ->	24606 (# counted)	18449 (# counted)	19569 (# counted)	19609 (# counted)
Cocconeis pediculus	-	-	-	-
Cocconeis placentula	24	2	-	2
Cocconeis pseudothumensis	-	-	-	-
Coscinodiscophyceae	-	-	-	-
Craticula	-	-	-	-
Craticula minusculoides	-	-	-	-
Cyclostephanos invisitatus	-	-	-	-
Cyclotella	-	-	-	6
Cyclotella atomus	-	-	-	-
Cyclotella meneghiniana	-	2	-	-
Cyclotella pseudostelligera	-	-	-	-
Cymbella	-	-	-	-
Cymbella aspera	1	-	-	-
Cymbella subcuspidata	-	-	-	-
Cymbellaceae	-	-	2	2
Cymbellales	-	-	-	-
Diadesmis confervacea	6	-	2	-
Diadesmis contenta	1	2	-	-
Diatoma	-	-	-	-
Diploneis	-	-	-	-
Diploneis oblongella	-	-	-	-
Diploneis ovalis	-	-	-	-
Diploneis parma	-	-	-	-
Diploneis pseudovalis	-	-	-	-
Encyonema	-	1	1	13
Encyonema evergladianum	-	-	-	-
Encyonema minutum	-	-	-	-
Encyonema neomesianum	-	-	-	1
Encyonema silesiacum	-	-	-	-
Encyonopsis microcephala	-	-	-	-
Epithemia	-	-	-	-
Eunotia	1	312	170	148
Eunotia bilunaris	-	3	-	-
Eunotia carolina	-	-	-	-
Eunotia exigua	-	-	-	-
Eunotia flexuosa	-	-	-	-
Eunotia formica	-	-	-	-
Eunotia implicata	-	-	-	-
Eunotia incisa	-	3	-	-
Eunotia meisteri	-	-	-	-
Eunotia minor	-	-	-	-
Eunotia naegelii	-	-	-	-
Eunotia paludosa	-	-	-	-
Eunotia pectinalis	-	17	-	-
Eunotia pectinalis undulata	-	-	-	-
Eunotia rhomboidea	-	-	-	-
Eunotia transfuga	-	-	-	-
Eunotia undulata	-	-	-	-

As Entered / STORET station ->	22050040	LIB104LV	CLA243LV	CLA254LR
Sample date ->	1/14/2009	11/21/2005	11/14/2005	11/14/2005
	Sampleid 65932/PerDialD	Sampleid 49678/PerID	Sampleid 52997/PerID	Sampleid 53033/PerID
Taxon Name / SampleID/PerDialD ->	24606 (# counted)	18449 (# counted)	19569 (# counted)	19609 (# counted)
Eunotia yanomami	-	-	-	-
Eunotia zygodon	-	2	-	-
Fragilaria	-	-	18	1
Fragilaria brevistriata	-	-	-	-
Fragilaria capucina	-	-	-	2
Fragilaria crotonensis	-	-	-	-
Fragilaria javanica	-	2	-	-
Fragilaria pinnata	-	-	-	-
Fragilaria synegrotesca	-	-	-	-
Fragilaria virescens	-	-	-	-
Fragilariaceae	-	-	14	2
Fragilariforma	-	-	-	-
Fragilariforma bicapitata	-	-	-	-
Fragilariforma virescens	-	-	-	-
Fragilariophyceae	-	3	-	-
Frustulia	-	2	-	-
Frustulia rhomboides	-	14	90	96
Frustulia saxonica	-	10	-	-
Frustulia vulgaris	1	-	-	-
Geissleria decussis	-	-	-	-
Gomphonema	18	2	-	1
Gomphonema affine	-	-	-	-
Gomphonema augur	-	-	-	-
Gomphonema clevei	-	-	-	-
Gomphonema gracile	-	-	-	-
Gomphonema grovei lingulatum	-	-	-	-
Gomphonema guaraniarum	-	-	-	-
Gomphonema minutum	-	-	-	-
Gomphonema parvulum	-	-	-	-
Gomphonema truncatum	-	-	-	-
Gomphonema vibrio	-	-	-	-
Gyrosigma	-	-	-	-
Gyrosigma obscurum	-	-	-	-
Hantzschia	-	-	-	-
Hantzschia amphioxys	-	-	-	-
Hippodonta	-	-	-	-
Hippodonta capitata	-	-	1	-
Hippodonta hungarica	-	-	-	-
Karayevia clevei	1	-	-	-
Kobayasiella	29	-	-	-
Lemnicola hungarica	-	-	-	-
Luticola	-	1	-	-
Luticola mutica	-	-	-	-
Melosira	-	-	-	-
Meridion	-	-	-	-
Microcostatus polonarum	-	-	-	-
Navicula	55	2	-	5
Navicula bouillantensis	-	-	-	-

As Entered / STORET station ->	22050040	LIB104LV	CLA243LV	CLA254LR
Sample date ->	1/14/2009	11/21/2005	11/14/2005	11/14/2005
	Sampleid 65932/PerDialD	Sampleid 49678/PerID	Sampleid 52997/PerID	Sampleid 53033/PerID
Taxon Name / SampleID/PerDialD ->	24606 (# counted)	18449 (# counted)	19569 (# counted)	19609 (# counted)
Navicula clementis	-	-	-	-
Navicula cocconeiformis	-	-	3	-
Navicula constans	-	-	-	-
Navicula cryptocephala	10	1	-	8
Navicula cryptotenella	11	-	-	1
Navicula decussis	-	-	-	-
Navicula elginensis	-	1	-	-
Navicula festiva	-	-	-	-
Navicula gastrum	-	-	-	-
Navicula germainii	-	-	-	-
Navicula heimansioides	-	-	-	-
Navicula ingenua	18	-	-	-
Navicula kotschyi	-	-	-	-
Navicula longicephala	-	-	-	-
Navicula mediocris	-	-	-	-
Navicula minima	56	13	-	5
Navicula occulta	-	-	-	-
Navicula peregrina	-	-	-	-
Navicula placenta	-	-	-	-
Navicula placentula	-	-	-	-
Navicula porifera	-	-	-	-
Navicula radiosa	-	-	-	-
Navicula rhynchocephala	-	-	-	-
Navicula rostellata	-	-	-	-
Navicula schroeteri	-	1	-	-
Navicula seminulum	70	6	-	-
Navicula tripunctata	-	-	-	-
Navicula vaneeii	-	-	-	-
Navicula viridulacalcis	-	-	-	-
Naviculaceae	6	5	6	1
Naviculales	-	-	-	-
Neidium	-	-	2	-
Neidium alpinum	-	-	-	-
Neidium alpinum quadripunctatum	-	-	-	-
Neidium amphigomphus	-	-	-	-
Neidium binodis	-	-	-	-
Neidium densestriatum	-	-	-	-
Neidium dubium	-	-	-	-
Neidium ladogensis densestriatum	-	3	-	-
Nitzschia	9	9	69	41
Nitzschia amphibia	3	-	-	-
Nitzschia clausii	-	-	-	-
Nitzschia dissipata	4	-	-	-
Nitzschia frustulum	-	-	17	-
Nitzschia gracilis	-	-	-	-
Nitzschia intermedia	-	-	-	-
Nitzschia linearis	2	-	-	-
Nitzschia nana	-	-	-	-

As Entered / STORET station ->	22050040	LIB104LV	CLA243LV	CLA254LR
Sample date ->	1/14/2009	11/21/2005	11/14/2005	11/14/2005
	Sampleid 65932/PerDiaID	Sampleid 49678/PerID	Sampleid 52997/PerID	Sampleid 53033/PerID
Taxon Name / SampleID/PerDiaID ->	24606 (# counted)	18449 (# counted)	19569 (# counted)	19609 (# counted)
Nitzschia palea	-	-	16	8
Nitzschia paleacea	-	-	-	-
Nitzschia palustris	-	-	-	-
Nitzschia reversa	-	-	-	-
Nitzschia scalaris	-	-	-	-
Nitzschia seriata	-	-	-	-
Nitzschia serrata	-	-	-	-
Nitzschia subacicularis	-	-	-	-
Nupela	28	-	-	-
Nupela cymbelloidea	12	-	-	-
Nupela neotropica	-	-	-	-
Opephora	-	-	-	-
Pinnularia	-	50	43	71
Pinnularia acrosphaeria	-	-	-	-
Placoneis	1	-	-	-
Placoneis elginensis	-	-	-	-
Planothidium	11	-	-	-
Planothidium apiculatum	-	-	-	-
Planothidium delicatulum	-	-	-	-
Planothidium frequentissimum	2	-	-	-
Planothidium lanceolatum	3	-	-	-
Planothidium peragalli	-	-	-	-
Planothidium rostratum	23	-	-	-
Pleurosira laevis	-	-	-	-
Psammothidium daonense	-	-	-	-
Psammothidium sacculum	4	-	-	-
Pseudostaurosira brevistriata	-	-	-	-
Rhopalodia	-	-	-	-
Rossithidium	-	-	-	-
Rossithidium pusillium	7	-	-	-
Sellaphora	-	-	-	-
Sellaphora laevissima	-	-	-	-
Sellaphora pupula	2	1	-	-
Stauroneis	2	1	1	6
Stauroneis anceps	-	-	-	-
Stauroneis phoenicenteron	-	-	-	-
Stauroneis prominula	-	-	-	-
Stauroneis smithii	-	-	-	1
Staurosira construens	-	-	-	-
Staurosira elliptica	-	-	-	-
Staurosirella	-	-	-	-
Staurosirella leptostauron	-	-	-	-
Staurosirella pinnata	-	-	-	-
Stenopterobia	-	-	-	-
Stenopterobia delicatissima	-	-	-	10
Stephanodiscus	-	-	-	-
Surirella	-	-	-	2
Surirella angusta	-	-	-	-

As Entered / STORET station ->	22050040	LIB104LV	CLA243LV	CLA254LR
Sample date ->	1/14/2009	11/21/2005	11/14/2005	11/14/2005
	Sampleid 65932/PerDiaID	Sampleid 49678/PerID	Sampleid 52997/PerID	Sampleid 53033/PerID
Taxon Name / SampleID/PerDiaID ->	24606 (# counted)	18449 (# counted)	19569 (# counted)	19609 (# counted)
Synedra	-	-	-	-
Synedra acus	-	-	-	-
Synedra fasciculata	-	-	-	-
Synedra ulna	-	-	-	-
Tabellaria	-	-	-	-
Terpsinoe musica	-	-	-	-
Thalassionema	-	-	-	-
Thalassiosira	-	-	-	-
Tryblionella	-	-	-	-
Tryblionella levidensis	-	-	-	-

As Entered / STORET station ->	UNI234LV	LEV502GS	PUT308GS	GLA630GS
Sample date ->	11/15/2005	12/6/2005	12/13/2005	1/23/2006
	Sampleid 53060/PerID	Sampleid 54263/PerID	Sampleid 54275/PerID	Sampleid 55073/PerID
Taxon Name / SampleID/PerDiaID ->	19640 (# counted)	20007 (# counted)	20032 (# counted)	20329 (# counted)
Achnanthaceae	-	-	-	-
Achnanthales	-	-	-	-
Achnanthes	-	3	-	2
Achnanthes clevei	-	-	4	-
Achnanthes exigua	2	4	-	1
Achnanthes fluviatilis	-	-	-	-
Achnanthes hungarica	-	4	-	21
Achnanthes lanceolata	-	1	-	-
Achnanthes lanceolata apiculata	1	-	1	20
Achnanthes lanceolata frequentissima	-	-	-	-
Achnanthes lanceolata rostrata	2	2	-	-
Achnanthes minutissima	-	2	-	-
Achnanthes peragalli	-	-	-	-
Achnanthes rupestoides	-	155	-	-
Achnanthidiaceae	-	-	-	-
Achnanthidium	-	-	-	-
Achnanthidium exiguum	-	-	-	-
Achnanthidium microcephalum	-	-	-	-
Achnanthidium minutissimum	-	-	-	-
Actinella	-	-	-	-
Amphipleura pellucida	-	28	-	-
Amphora	-	-	-	-
Amphora copulata	-	-	-	-
Amphora libyca	-	-	-	8
Amphora veneta	-	-	-	1
Anorthoneis	-	-	-	-
Asterionella	-	-	-	-
Aulacoseira	34	-	2	7
Aulacoseira granulata	-	-	2	-
Aulacoseira herzogii	-	-	-	-
Bacillaria paxillifer	-	12	-	-
Bacillariophyceae	7	2	2	5
Bacillariophyta	-	-	-	-
Brachysira	-	-	-	-
Brachysira brebissonii	-	-	-	-
Brachysira microcephala	-	-	-	-
Brachysira vitrea	-	-	-	1
Caloneis	-	-	-	-
Caloneis bacillum	2	-	-	1
Capartogramma crucicula	1	-	-	-
Cavinula	-	-	-	-
Cavinula cocconeiformis	-	-	-	-
Cavinula jaernefeltii	-	-	-	-
Chamaepinnularia margaritiana	-	-	-	-
Chamaepinnularia minutissima	-	-	-	-
Cocconeis	-	1	-	-
Cocconeis disculus	-	-	-	-
Cocconeis fluviatilis	-	27	-	-

As Entered / STORET station ->	UNI234LV	LEV502GS	PUT308GS	GLA630GS
Sample date ->	11/15/2005	12/6/2005	12/13/2005	1/23/2006
	Sampleid 53060/PerID	Sampleid 54263/PerID	Sampleid 54275/PerID	Sampleid 55073/PerID
Taxon Name / SampleID/PerDiaID ->	19640 (# counted)	20007 (# counted)	20032 (# counted)	20329 (# counted)
Cocconeis pediculus	-	-	-	-
Cocconeis placentula	-	15	-	1
Cocconeis pseudothumensis	-	-	-	-
Coscinodiscophyceae	-	-	-	-
Craticula	-	-	-	7
Craticula minusculoides	-	-	-	-
Cyclostephanos invisitatus	-	-	-	-
Cyclotella	-	-	-	-
Cyclotella atomus	-	-	-	-
Cyclotella meneghiniana	-	-	-	1
Cyclotella pseudostelligera	-	-	-	-
Cymbella	-	-	-	-
Cymbella aspera	-	-	-	-
Cymbella subcuspidata	-	-	-	-
Cymbellaceae	-	18	-	-
Cymbellales	-	-	-	-
Diadesmis confervacea	1	1	3	9
Diadesmis contenta	-	-	3	-
Diatoma	-	-	-	-
Diploneis	-	-	-	-
Diploneis oblongella	-	-	-	-
Diploneis ovalis	-	1	-	1
Diploneis parma	-	-	-	-
Diploneis pseudovalis	-	-	-	-
Encyonema	-	-	5	8
Encyonema evergladianum	-	-	-	-
Encyonema minutum	-	-	-	4
Encyonema neomesianum	-	-	-	-
Encyonema silesiacum	-	-	-	-
Encyonopsis microcephala	-	-	-	-
Epithemia	-	-	-	-
Eunotia	143	7	296	109
Eunotia bilunaris	1	-	-	4
Eunotia carolina	-	-	-	-
Eunotia exigua	-	-	-	-
Eunotia flexuosa	-	-	-	-
Eunotia formica	3	-	-	-
Eunotia implicata	3	-	-	-
Eunotia incisa	-	-	32	4
Eunotia meisteri	-	-	-	-
Eunotia minor	-	-	-	-
Eunotia naegelii	-	-	-	-
Eunotia paludosa	-	-	-	-
Eunotia pectinalis	-	-	16	-
Eunotia pectinalis undulata	-	-	-	-
Eunotia rhomboidea	-	-	-	-
Eunotia transfuga	-	-	-	-
Eunotia undulata	-	-	-	-

As Entered / STORET station ->	UNI234LV	LEV502GS	PUT308GS	GLA630GS
Sample date ->	11/15/2005	12/6/2005	12/13/2005	1/23/2006
	Sampleid 53060/PerID	Sampleid 54263/PerID	Sampleid 54275/PerID	Sampleid 55073/PerID
Taxon Name / SampleID/PerDiaID ->	19640 (# counted)	20007 (# counted)	20032 (# counted)	20329 (# counted)
Eunotia yanomami	-	-	-	-
Eunotia zygodon	-	-	-	-
Fragilaria	-	1	4	-
Fragilaria brevistriata	-	-	-	-
Fragilaria capucina	-	-	-	-
Fragilaria crotonensis	-	-	-	-
Fragilaria javanica	-	-	-	-
Fragilaria pinnata	-	2	1	-
Fragilaria synegrotesca	-	-	-	-
Fragilaria virescens	-	-	4	-
Fragilariaceae	-	2	2	-
Fragilariforma	-	-	-	-
Fragilariforma bicapitata	-	-	-	-
Fragilariforma virescens	-	-	-	-
Fragilariophyceae	-	-	-	1
Frustulia	8	5	-	-
Frustulia rhomboides	-	-	1	-
Frustulia saxonica	20	-	36	16
Frustulia vulgaris	-	-	-	-
Geissleria decussis	-	-	-	14
Gomphonema	2	48	-	8
Gomphonema affine	-	1	-	-
Gomphonema augur	-	-	-	-
Gomphonema clevei	-	-	-	-
Gomphonema gracile	-	8	-	6
Gomphonema grovei lingulatum	-	-	-	-
Gomphonema guaraniarum	-	-	-	-
Gomphonema minutum	-	-	-	-
Gomphonema parvulum	-	4	-	8
Gomphonema truncatum	-	-	-	-
Gomphonema vibrio	-	1	-	-
Gyrosigma	-	20	-	-
Gyrosigma obscurum	-	-	-	-
Hantzschia	1	-	-	-
Hantzschia amphioxys	-	-	-	-
Hippodonta	-	2	-	7
Hippodonta capitata	-	-	-	4
Hippodonta hungarica	-	-	-	-
Karayevia clevei	-	-	-	-
Kobayasiella	-	-	-	-
Lemnicola hungarica	-	-	-	-
Luticola	-	1	-	2
Luticola mutica	-	-	-	-
Melosira	-	6	1	-
Meridion	-	-	-	-
Microcostatus polonarum	-	-	-	-
Navicula	6	39	11	28
Navicula bouillantensis	-	-	-	-

As Entered / STORET station ->	UNI234LV	LEV502GS	PUT308GS	GLA630GS
Sample date ->	11/15/2005	12/6/2005	12/13/2005	1/23/2006
	Sampleid 53060/PerID	Sampleid 54263/PerID	Sampleid 54275/PerID	Sampleid 55073/PerID
Taxon Name / SampleID/PerDiaID ->	19640 (# counted)	20007 (# counted)	20032 (# counted)	20329 (# counted)
Navicula clementis	-	-	-	-
Navicula cocconeiformis	1	-	2	-
Navicula constans	1	-	-	-
Navicula cryptocephala	-	23	-	4
Navicula cryptotenella	-	-	-	-
Navicula decussis	-	1	-	-
Navicula elginensis	-	-	-	-
Navicula festiva	-	-	-	-
Navicula gastrum	1	-	-	-
Navicula germainii	-	-	-	-
Navicula heimansioides	-	-	-	-
Navicula ingenua	-	-	-	-
Navicula kotschyi	-	-	-	-
Navicula longicephala	-	-	-	-
Navicula mediocris	-	-	-	-
Navicula minima	-	3	1	41
Navicula occulta	-	-	-	-
Navicula peregrina	-	-	-	-
Navicula placenta	-	-	-	-
Navicula placentula	-	-	-	-
Navicula porifera	-	-	-	-
Navicula radiosa	-	3	-	-
Navicula rhynchocephala	-	-	-	-
Navicula rostellata	-	-	-	-
Navicula schroeteri	-	-	-	-
Navicula seminulum	-	1	1	3
Navicula tripunctata	-	-	-	-
Navicula vaneeii	-	-	-	-
Navicula viridulacalcis	-	-	-	-
Naviculaceae	1	-	8	12
Naviculales	-	-	-	-
Neidium	-	-	2	1
Neidium alpinum	-	-	-	-
Neidium alpinum quadripunctatum	-	-	-	-
Neidium amphigomphus	-	-	-	-
Neidium binodis	-	-	-	-
Neidium densestriatum	-	-	-	-
Neidium dubium	-	-	-	3
Neidium ladogensis densestriatum	2	-	-	-
Nitzschia	64	31	7	22
Nitzschia amphibia	-	-	-	-
Nitzschia clausii	-	-	-	-
Nitzschia dissipata	-	-	-	-
Nitzschia frustulum	-	-	-	-
Nitzschia gracilis	1	-	-	-
Nitzschia intermedia	-	3	-	-
Nitzschia linearis	-	-	-	-
Nitzschia nana	-	-	-	1

As Entered / STORET station ->	UNI234LV	LEV502GS	PUT308GS	GLA630GS
Sample date ->	11/15/2005	12/6/2005	12/13/2005	1/23/2006
	Sampleid 53060/PerID	Sampleid 54263/PerID	Sampleid 54275/PerID	Sampleid 55073/PerID
Taxon Name / SampleID/PerDiaID ->	19640 (# counted)	20007 (# counted)	20032 (# counted)	20329 (# counted)
Nitzschia palea	23	-	23	29
Nitzschia paleacea	-	-	-	-
Nitzschia palustris	-	-	-	-
Nitzschia reversa	-	-	-	-
Nitzschia scalaris	-	-	2	-
Nitzschia seriata	-	-	-	-
Nitzschia serrata	-	-	-	-
Nitzschia subacicularis	-	-	-	-
Nupela	-	-	-	-
Nupela cymbelloidea	-	-	-	-
Nupela neotropica	-	-	-	-
Opephora	-	-	-	-
Pinnularia	155	9	27	27
Pinnularia acrosphaeria	2	-	-	-
Placoneis	-	-	-	-
Placoneis elginensis	-	-	-	-
Planothidium	-	-	-	-
Planothidium apiculatum	-	-	-	-
Planothidium delicatulum	-	-	-	-
Planothidium frequentissimum	-	-	-	-
Planothidium lanceolatum	-	-	-	-
Planothidium peragalli	-	-	-	-
Planothidium rostratum	-	-	-	-
Pleurosira laevis	-	-	-	-
Psammothidium daonense	-	-	-	-
Psammothidium sacculum	-	-	-	-
Pseudostaurosira brevistriata	-	-	-	-
Rhopalodia	-	-	-	2
Rossithidium	-	-	-	-
Rossithidium pusillium	-	-	-	-
Sellaphora	-	-	-	-
Sellaphora laevissima	-	-	-	13
Sellaphora pupula	-	1	-	11
Stauroneis	1	-	-	12
Stauroneis anceps	-	-	1	-
Stauroneis phoenicenteron	-	-	-	4
Stauroneis prominula	-	-	-	-
Stauroneis smithii	-	2	-	1
Staurosira construens	-	-	-	-
Staurosira elliptica	-	-	-	-
Staurosirella	-	-	-	-
Staurosirella leptostauron	-	-	-	-
Staurosirella pinnata	-	-	-	-
Stenopterobia	-	-	-	-
Stenopterobia delicatissima	-	-	-	-
Stephanodiscus	-	-	-	-
Surirella	-	-	-	4
Surirella angusta	-	-	-	-

As Entered / STORET station ->	UNI234LV	LEV502GS	PUT308GS	GLA630GS
Sample date ->	11/15/2005	12/6/2005	12/13/2005	1/23/2006
	Sampleid 53060/PerID	Sampleid 54263/PerID	Sampleid 54275/PerID	Sampleid 55073/PerID
Taxon Name / SampleID/PerDiaID ->	19640 (# counted)	20007 (# counted)	20032 (# counted)	20329 (# counted)
Synedra	-	-	-	-
Synedra acus	-	-	-	-
Synedra fasciculata	-	-	-	-
Synedra ulna	-	-	-	1
Tabellaria	-	-	-	-
Terpsinoe musica	-	-	-	-
Thalassionema	-	-	-	-
Thalassiosira	2	-	-	-
Tryblionella	8	-	-	-
Tryblionella levidensis	-	-	-	-

As Entered / STORET station ->	BAK210GS	BAK210GS	GAD104US		
Sample date ->	11/1/2005	3/20/2006	11/14/2005		
	Sampleid 55672/PerID	Sampleid 55852/PerID	Sampleid 57811/PerID		
Taxon Name / SampleID/PerDiaID ->	20631 (# counted)	20851 (# counted)	22009 (# counted)	Phylum	Class
Achnanthaceae	-	-	-	Bacillariophyt	Bacillariophyc
Achnanthales	-	-	-	Bacillariophyt	Bacillariophyc
Achnanthes	-	2	9	Bacillariophyt	Bacillariophyc
Achnanthes clevei	-	2	-	Bacillariophyt	Bacillariophyc
Achnanthes exigua	-	1	-	Bacillariophyt	Bacillariophyc
Achnanthes fluviatilis	-	-	-	Bacillariophyt	Bacillariophyc
Achnanthes hungarica	-	-	2	Bacillariophyt	Bacillariophyc
Achnanthes lanceolata	-	-	-	Bacillariophyt	Bacillariophyc
Achnanthes lanceolata apiculata	-	-	2	Bacillariophyt	Bacillariophyc
Achnanthes lanceolata frequentissima	-	-	-	Bacillariophyt	Bacillariophyc
Achnanthes lanceolata rostrata	1	-	7	Bacillariophyt	Bacillariophyc
Achnanthes minutissima	-	-	10	Bacillariophyt	Bacillariophyc
Achnanthes peragalli	-	-	-	Bacillariophyt	Bacillariophyc
Achnanthes rupestoides	-	-	-	Bacillariophyt	Bacillariophyc
Achnanthidiaceae	-	-	-	Bacillariophyt	Bacillariophyc
Achnanthidium	-	-	-	Bacillariophyt	Bacillariophyc
Achnanthidium exiguum	-	-	-	Bacillariophyt	Bacillariophyc
Achnanthidium microcephalum	-	-	-	Bacillariophyt	Bacillariophyc
Achnanthidium minutissimum	-	-	-	Bacillariophyt	Bacillariophyc
Actinella	-	-	-	Bacillariophyt	Bacillariophyc
Amphipleura pellucida	-	-	-	Bacillariophyt	Bacillariophyc
Amphora	-	-	-	Bacillariophyt	Bacillariophyc
Amphora copulata	-	-	-	Bacillariophyt	Bacillariophyc
Amphora libyca	-	-	-	Bacillariophyt	Bacillariophyc
Amphora veneta	-	1	-	Bacillariophyt	Bacillariophyc
Anorthoneis	-	-	-	Bacillariophyt	Bacillariophyc
Asterionella	-	-	-	Bacillariophyt	Fragilariophyc
Aulacoseira	21	40	29	Bacillariophyt	Coscinodisco
Aulacoseira granulata	-	-	-	Bacillariophyt	Coscinodisco
Aulacoseira herzogii	-	-	3	Bacillariophyt	Coscinodisco
Bacillaria paxillifer	-	-	-	Bacillariophyt	Bacillariophyc
Bacillariophyceae	6	34	11	Bacillariophyt	Bacillariophyc
Bacillariophyta	-	-	-	Bacillariophyt	Bacillariophyt
Brachysira	-	-	-	Bacillariophyt	Bacillariophyc
Brachysira brebissonii	-	-	-	Bacillariophyt	Bacillariophyc
Brachysira microcephala	-	-	-	Bacillariophyt	Bacillariophyc
Brachysira vitrea	-	-	-	Bacillariophyt	Bacillariophyc
Caloneis	-	11	-	Bacillariophyt	Bacillariophyc
Caloneis bacillum	-	-	-	Bacillariophyt	Bacillariophyc
Capartogramma crucicula	-	-	6	Bacillariophyt	Bacillariophyc
Cavinula	-	-	-	Bacillariophyt	Bacillariophyc
Cavinula cocconeiformis	-	-	-	Bacillariophyt	Bacillariophyc
Cavinula jaernefeltii	-	-	-	Bacillariophyt	Bacillariophyc
Chamaepinnularia margaritiana	-	-	-	Bacillariophyt	Bacillariophyc
Chamaepinnularia minutissima	-	-	-	Bacillariophyt	Bacillariophyc
Cocconeis	-	-	1	Bacillariophyt	Bacillariophyc
Cocconeis disculus	-	-	-	Bacillariophyt	Bacillariophyc
Cocconeis fluviatilis	-	-	61	Bacillariophyt	Bacillariophyc

As Entered / STORET station ->	BAK210GS	BAK210GS	GAD104US		
Sample date ->	11/1/2005	3/20/2006	11/14/2005		
	Sampleid 55672/PerID	Sampleid 55852/PerID	Sampleid 57811/PerID		
Taxon Name / SampleID/PerDiaID ->	20631 (# counted)	20851 (# counted)	22009 (# counted)	Phylum	Class
Cocconeis pediculus	-	-	-	Bacillariophyt	Bacillariophyc
Cocconeis placentula	-	3	-	Bacillariophyt	Bacillariophyc
Cocconeis pseudothumensis	-	-	-	Bacillariophyt	Bacillariophyc
Coscinodiscophyceae	-	-	-	Bacillariophyt	Coscinodisco
Craticula	-	1	-	Bacillariophyt	Bacillariophyc
Craticula minusculoides	-	-	-	Bacillariophyt	Bacillariophyc
Cyclostephanos invisitatus	-	-	-	Bacillariophyt	Coscinodisco
Cyclotella	-	-	-	Bacillariophyt	Coscinodisco
Cyclotella atomus	-	-	-	Bacillariophyt	Coscinodisco
Cyclotella meneghiniana	-	-	-	Bacillariophyt	Coscinodisco
Cyclotella pseudostelligera	-	-	-	Bacillariophyt	Coscinodisco
Cymbella	-	-	-	Bacillariophyt	Bacillariophyc
Cymbella aspera	-	-	-	Bacillariophyt	Bacillariophyc
Cymbella subcuspidata	-	-	-	Bacillariophyt	Bacillariophyc
Cymbellaceae	-	2	2	Bacillariophyt	Bacillariophyc
Cymbellales	-	-	-	Bacillariophyt	Bacillariophyc
Diadesmis confervacea	1	21	6	Bacillariophyt	Bacillariophyc
Diadesmis contenta	-	1	1	Bacillariophyt	Bacillariophyc
Diatoma	-	-	-	Bacillariophyt	Fragilariophyc
Diploneis	-	-	-	Bacillariophyt	Bacillariophyc
Diploneis oblongella	-	-	-	Bacillariophyt	Bacillariophyc
Diploneis ovalis	-	-	-	Bacillariophyt	Bacillariophyc
Diploneis parma	-	-	-	Bacillariophyt	Bacillariophyc
Diploneis pseudovalis	-	-	-	Bacillariophyt	Bacillariophyc
Encyonema	-	-	-	Bacillariophyt	Bacillariophyc
Encyonema evergladianum	-	-	-	Bacillariophyt	Bacillariophyc
Encyonema minutum	-	-	-	Bacillariophyt	Bacillariophyc
Encyonema neomesianum	-	-	-	Bacillariophyt	Bacillariophyc
Encyonema silesiacum	-	-	3	Bacillariophyt	Bacillariophyc
Encyonopsis microcephala	-	-	-	Bacillariophyt	Bacillariophyc
Epithemia	-	-	-	Bacillariophyt	Bacillariophyc
Eunotia	358	200	37	Bacillariophyt	Bacillariophyc
Eunotia bilunaris	-	9	-	Bacillariophyt	Bacillariophyc
Eunotia carolina	-	-	-	Bacillariophyt	Bacillariophyc
Eunotia exigua	-	-	-	Bacillariophyt	Bacillariophyc
Eunotia flexuosa	-	-	-	Bacillariophyt	Bacillariophyc
Eunotia formica	-	2	-	Bacillariophyt	Bacillariophyc
Eunotia implicata	-	-	-	Bacillariophyt	Bacillariophyc
Eunotia incisa	1	14	-	Bacillariophyt	Bacillariophyc
Eunotia meisteri	-	-	-	Bacillariophyt	Bacillariophyc
Eunotia minor	-	6	-	Bacillariophyt	Bacillariophyc
Eunotia naegelii	-	-	-	Bacillariophyt	Bacillariophyc
Eunotia paludosa	-	-	-	Bacillariophyt	Bacillariophyc
Eunotia pectinalis	1	6	8	Bacillariophyt	Bacillariophyc
Eunotia pectinalis undulata	-	-	-	Bacillariophyt	Bacillariophyc
Eunotia rhomboidea	-	-	-	Bacillariophyt	Bacillariophyc
Eunotia transfuga	-	12	-	Bacillariophyt	Bacillariophyc
Eunotia undulata	-	-	-	Bacillariophyt	Bacillariophyc

As Entered / STORET station ->	BAK210GS	BAK210GS	GAD104US		
Sample date ->	11/1/2005	3/20/2006	11/14/2005		
	Sampleid 55672/PerID	Sampleid 55852/PerID	Sampleid 57811/PerID		
Taxon Name / SampleID/PerDiaID ->	20631 (# counted)	20851 (# counted)	22009 (# counted)	Phylum	Class
Eunotia yanomami	-	-	-	Bacillariophyt	Bacillariophyc
Eunotia zygodon	6	-	-	Bacillariophyt	Bacillariophyc
Fragilaria	-	-	7	Bacillariophyt	Fragilariophyc
Fragilaria brevistriata	-	-	-	Bacillariophyt	Fragilariophyc
Fragilaria capucina	-	-	-	Bacillariophyt	Fragilariophyc
Fragilaria crotonensis	-	-	2	Bacillariophyt	Fragilariophyc
Fragilaria javanica	-	5	-	Bacillariophyt	Fragilariophyc
Fragilaria pinnata	-	-	-	Bacillariophyt	Fragilariophyc
Fragilaria synegrotesca	-	-	-	Bacillariophyt	Fragilariophyc
Fragilaria virescens	-	-	-	Bacillariophyt	Fragilariophyc
Fragilariaceae	-	18	3	Bacillariophyt	Fragilariophyc
Fragilariforma	-	-	-	Bacillariophyt	Fragilariophyc
Fragilariforma bicapitata	1	-	-	Bacillariophyt	Fragilariophyc
Fragilariforma virescens	-	-	-	Bacillariophyt	Fragilariophyc
Fragilariophyceae	-	-	-	Bacillariophyt	Fragilariophyc
Frustulia	6	12	-	Bacillariophyt	Bacillariophyc
Frustulia rhomboides	-	-	26	Bacillariophyt	Bacillariophyc
Frustulia saxonica	7	3	1	Bacillariophyt	Bacillariophyc
Frustulia vulgaris	-	-	-	Bacillariophyt	Bacillariophyc
Geissleria decussis	-	-	-	Bacillariophyt	Bacillariophyc
Gomphonema	1	1	46	Bacillariophyt	Bacillariophyc
Gomphonema affine	-	-	-	Bacillariophyt	Bacillariophyc
Gomphonema augur	-	-	-	Bacillariophyt	Bacillariophyc
Gomphonema clevei	-	-	-	Bacillariophyt	Bacillariophyc
Gomphonema gracile	-	-	5	Bacillariophyt	Bacillariophyc
Gomphonema grovei lingulatum	-	-	-	Bacillariophyt	Bacillariophyc
Gomphonema guaraniarum	-	-	-	Bacillariophyt	Bacillariophyc
Gomphonema minutum	-	-	-	Bacillariophyt	Bacillariophyc
Gomphonema parvulum	1	-	22	Bacillariophyt	Bacillariophyc
Gomphonema truncatum	-	-	-	Bacillariophyt	Bacillariophyc
Gomphonema vibrio	-	-	-	Bacillariophyt	Bacillariophyc
Gyrosigma	-	-	3	Bacillariophyt	Bacillariophyc
Gyrosigma obscurum	-	-	-	Bacillariophyt	Bacillariophyc
Hantzschia	-	-	-	Bacillariophyt	Bacillariophyc
Hantzschia amphioxys	-	-	-	Bacillariophyt	Bacillariophyc
Hippodonta	-	-	-	Bacillariophyt	Bacillariophyc
Hippodonta capitata	-	-	-	Bacillariophyt	Bacillariophyc
Hippodonta hungarica	-	-	11	Bacillariophyt	Bacillariophyc
Karayevia clevei	-	-	-	Bacillariophyt	Bacillariophyc
Kobayasiella	-	-	-	Bacillariophyt	Bacillariophyc
Lemnicola hungarica	-	-	-	Bacillariophyt	Bacillariophyc
Luticola	-	-	3	Bacillariophyt	Bacillariophyc
Luticola mutica	-	9	-	Bacillariophyt	Bacillariophyc
Melosira	-	-	-	Bacillariophyt	Coscinodisco
Meridion	-	-	-	Bacillariophyt	Fragilariophyc
Microcostatus polonarum	-	-	-	Bacillariophyt	Bacillariophyc
Navicula	-	-	51	Bacillariophyt	Bacillariophyc
Navicula bouillantensis	-	-	-	Bacillariophyt	Bacillariophyc

As Entered / STORET station ->	BAK210GS	BAK210GS	GAD104US		
Sample date ->	11/1/2005	3/20/2006	11/14/2005		
	Sampleid 55672/PerID	Sampleid 55852/PerID	Sampleid 57811/PerID		
Taxon Name / SampleID/PerDiaID ->	20631 (# counted)	20851 (# counted)	22009 (# counted)	Phylum	Class
Navicula clementis	-	-	-	Bacillariophyt	Bacillariophyc
Navicula cocconeiformis	-	-	-	Bacillariophyt	Bacillariophyc
Navicula constans	-	-	-	Bacillariophyt	Bacillariophyc
Navicula cryptocephala	-	-	5	Bacillariophyt	Bacillariophyc
Navicula cryptotenella	-	-	-	Bacillariophyt	Bacillariophyc
Navicula decussis	-	-	2	Bacillariophyt	Bacillariophyc
Navicula elginensis	-	-	-	Bacillariophyt	Bacillariophyc
Navicula festiva	-	-	-	Bacillariophyt	Bacillariophyc
Navicula gastrum	-	-	-	Bacillariophyt	Bacillariophyc
Navicula germainii	-	-	-	Bacillariophyt	Bacillariophyc
Navicula heimansioides	-	-	-	Bacillariophyt	Bacillariophyc
Navicula ingenua	-	-	-	Bacillariophyt	Bacillariophyc
Navicula kotschyi	-	-	-	Bacillariophyt	Bacillariophyc
Navicula longicephala	-	-	-	Bacillariophyt	Bacillariophyc
Navicula mediocris	-	-	-	Bacillariophyt	Bacillariophyc
Navicula minima	-	-	6	Bacillariophyt	Bacillariophyc
Navicula occulta	-	-	-	Bacillariophyt	Bacillariophyc
Navicula peregrina	-	-	-	Bacillariophyt	Bacillariophyc
Navicula placenta	-	-	-	Bacillariophyt	Bacillariophyc
Navicula placentula	-	-	-	Bacillariophyt	Bacillariophyc
Navicula porifera	-	-	-	Bacillariophyt	Bacillariophyc
Navicula radiosa	-	-	-	Bacillariophyt	Bacillariophyc
Navicula rhynchocephala	-	-	-	Bacillariophyt	Bacillariophyc
Navicula rostellata	-	-	18	Bacillariophyt	Bacillariophyc
Navicula schroeteri	-	-	20	Bacillariophyt	Bacillariophyc
Navicula seminulum	-	-	5	Bacillariophyt	Bacillariophyc
Navicula tripunctata	-	-	-	Bacillariophyt	Bacillariophyc
Navicula vaneeii	-	-	-	Bacillariophyt	Bacillariophyc
Navicula viridulacalcis	-	-	1	Bacillariophyt	Bacillariophyc
Naviculaceae	-	1	17	Bacillariophyt	Bacillariophyc
Naviculales	-	-	-	Bacillariophyt	Bacillariophyc
Neidium	-	1	-	Bacillariophyt	Bacillariophyc
Neidium alpinum	-	-	-	Bacillariophyt	Bacillariophyc
Neidium alpinum quadripunctatum	-	-	-	Bacillariophyt	Bacillariophyc
Neidium amphigomphus	-	-	-	Bacillariophyt	Bacillariophyc
Neidium binodis	-	-	-	Bacillariophyt	Bacillariophyc
Neidium densestriatum	6	3	-	Bacillariophyt	Bacillariophyc
Neidium dubium	-	-	-	Bacillariophyt	Bacillariophyc
Neidium ladogensis densestriatum	-	-	-	Bacillariophyt	Bacillariophyc
Nitzschia	30	5	23	Bacillariophyt	Bacillariophyc
Nitzschia amphibia	-	-	-	Bacillariophyt	Bacillariophyc
Nitzschia clausii	-	-	-	Bacillariophyt	Bacillariophyc
Nitzschia dissipata	-	-	-	Bacillariophyt	Bacillariophyc
Nitzschia frustulum	-	-	-	Bacillariophyt	Bacillariophyc
Nitzschia gracilis	-	-	-	Bacillariophyt	Bacillariophyc
Nitzschia intermedia	-	-	-	Bacillariophyt	Bacillariophyc
Nitzschia linearis	-	-	-	Bacillariophyt	Bacillariophyc
Nitzschia nana	-	1	-	Bacillariophyt	Bacillariophyc

As Entered / STORET station ->	BAK210GS	BAK210GS	GAD104US		
Sample date ->	11/1/2005	3/20/2006	11/14/2005		
	Sampleid 55672/PerID	Sampleid 55852/PerID	Sampleid 57811/PerID		
Taxon Name / SampleID/PerDiaID ->	20631 (# counted)	20851 (# counted)	22009 (# counted)	Phylum	Class
Nitzschia palea	-	8	-	Bacillariophyt	Bacillariophyc
Nitzschia paleacea	-	-	-	Bacillariophyt	Bacillariophyc
Nitzschia palustris	-	-	-	Bacillariophyt	Bacillariophyc
Nitzschia reversa	-	-	-	Bacillariophyt	Bacillariophyc
Nitzschia scalaris	-	-	-	Bacillariophyt	Bacillariophyc
Nitzschia seriata	-	-	-	Bacillariophyt	Bacillariophyc
Nitzschia serrata	-	-	-	Bacillariophyt	Bacillariophyc
Nitzschia subacicularis	-	-	-	Bacillariophyt	Bacillariophyc
Nupela	-	-	-	Bacillariophyt	Bacillariophyc
Nupela cymbelloidea	-	-	-	Bacillariophyt	Bacillariophyc
Nupela neotropica	-	-	-	Bacillariophyt	Bacillariophyc
Opephora	-	-	-	Bacillariophyt	Fragilariophyc
Pinnularia	53	61	10	Bacillariophyt	Bacillariophyc
Pinnularia acrosphaeria	-	-	-	Bacillariophyt	Bacillariophyc
Placoneis	-	-	-	Bacillariophyt	Bacillariophyc
Placoneis elginensis	-	-	-	Bacillariophyt	Bacillariophyc
Planothidium	-	-	-	Bacillariophyt	Bacillariophyc
Planothidium apiculatum	-	-	-	Bacillariophyt	Bacillariophyc
Planothidium delicatulum	-	-	-	Bacillariophyt	Bacillariophyc
Planothidium frequentissimum	-	-	-	Bacillariophyt	Bacillariophyc
Planothidium lanceolatum	-	-	-	Bacillariophyt	Bacillariophyc
Planothidium peragalli	-	-	-	Bacillariophyt	Bacillariophyc
Planothidium rostratum	-	-	-	Bacillariophyt	Bacillariophyc
Pleurosira laevis	-	-	-	Bacillariophyt	Coscinodisco
Psammothidium daonense	-	-	-	Bacillariophyt	Bacillariophyc
Psammothidium sacculum	-	-	-	Bacillariophyt	Bacillariophyc
Pseudostaurosira brevistriata	-	-	-	Bacillariophyt	Fragilariophyc
Rhopalodia	-	1	2	Bacillariophyt	Bacillariophyc
Rossithidium	-	-	-	Bacillariophyt	Bacillariophyc
Rossithidium pusillium	-	-	-	Bacillariophyt	Bacillariophyc
Sellaphora	-	-	-	Bacillariophyt	Bacillariophyc
Sellaphora laevissima	-	1	-	Bacillariophyt	Bacillariophyc
Sellaphora pupula	-	-	3	Bacillariophyt	Bacillariophyc
Stauroneis	-	2	-	Bacillariophyt	Bacillariophyc
Stauroneis anceps	-	-	-	Bacillariophyt	Bacillariophyc
Stauroneis phoenicenteron	-	-	-	Bacillariophyt	Bacillariophyc
Stauroneis prominula	-	-	1	Bacillariophyt	Bacillariophyc
Stauroneis smithii	-	-	-	Bacillariophyt	Bacillariophyc
Staurosira construens	-	-	-	Bacillariophyt	Fragilariophyc
Staurosira elliptica	-	-	-	Bacillariophyt	Fragilariophyc
Staurosirella	-	-	-	Bacillariophyt	Fragilariophyc
Staurosirella leptostauron	-	-	-	Bacillariophyt	Fragilariophyc
Staurosirella pinnata	-	-	-	Bacillariophyt	Fragilariophyc
Stenopterobia	-	-	-	Bacillariophyt	Bacillariophyc
Stenopterobia delicatissima	-	-	-	Bacillariophyt	Bacillariophyc
Stephanodiscus	-	-	-	Bacillariophyt	Coscinodisco
Surirella	-	-	-	Bacillariophyt	Bacillariophyc
Surirella angusta	-	-	-	Bacillariophyt	Bacillariophyc

As Entered / STORET station ->	BAK210GS	BAK210GS	GAD104US		
Sample date ->	11/1/2005	3/20/2006	11/14/2005		
	Sampleid 55672/PerID	Sampleid 55852/PerID	Sampleid 57811/PerID		
Taxon Name / SampleID/PerDiaID ->	20631 (# counted)	20851 (# counted)	22009 (# counted)	Phylum	Class
Synedra	-	-	-	Bacillariophyt	Fragilariophyc
Synedra acus	-	-	-	Bacillariophyt	Fragilariophyc
Synedra fasciculata	-	-	-	Bacillariophyt	Fragilariophyc
Synedra ulna	-	-	9	Bacillariophyt	Fragilariophyc
Tabellaria	-	-	-	Bacillariophyt	Fragilariophyc
Terpsinoe musica	-	-	-	Bacillariophyt	Coscinodisco
Thalassionema	-	-	-	Bacillariophyt	Fragilariophyc
Thalassiosira	-	-	-	Bacillariophyt	Coscinodisco
Tryblionella	-	-	-	Bacillariophyt	Bacillariophyc
Tryblionella levidensis	-	-	-	Bacillariophyt	Bacillariophyc

As Entered / STORET station ->
Sample date ->

Taxon Name / SampleID/PerDiaID ->	Order	Family	Genus	Current Name
Achnanthaceae	Achnanthales	Achnanthacea	Achnanthaceae	
Achnanthales	Achnanthales	Achnanthales	Achnanthales	
Achnanthes	Achnanthales	Achnanthacea	Achnanthes	
Achnanthes clevei	Achnanthales	Achnanthidiac	Karayevia	Karayevia clevei
Achnanthes exigua	Achnanthales	Achnanthacea	Achnanthes	Achnanthidium exiguum
Achnanthes fluviatilis	Achnanthales	Achnanthacea	Achnanthes	
Achnanthes hungarica	Achnanthales	Achnanthidiac	Lemnicola	Lemnicola hungarica
Achnanthes lanceolata	Achnanthales	Achnanthidiac	Planothidium	Planothidium lanceolatum
Achnanthes lanceolata apiculata	Achnanthales	Achnanthidiac	Planothidium	Planothidium apiculatum
Achnanthes lanceolata frequentissima	Achnanthales	Achnanthidiac	Planothidium	Planothidium frequentissimum
Achnanthes lanceolata rostrata	Achnanthales	Achnanthidiac	Planothidium	Planothidium rostratum
Achnanthes minutissima	Achnanthales	Achnanthidiac	Achnanthidiur	Achnanthidium minutissimum
Achnanthes peragalli	Achnanthales	Achnanthacea	Achnanthes	
Achnanthes rupestoides	Achnanthales	Achnanthacea	Achnanthes	
Achnanthidiaceae	Achnanthales	Achnanthidiac	Achnanthidiaceae	
Achnanthidium	Achnanthales	Achnanthidiac	Achnanthidium	
Achnanthidium exiguum	Achnanthales	Achnanthacea	Achnanthes	
Achnanthidium microcephalum	Achnanthales	Achnanthidiac	Achnanthidium	
Achnanthidium minutissimum	Achnanthales	Achnanthidiac	Achnanthidium	
Actinella	Eunotiales	Eunotiaceae	Actinella	
Amphipleura pellucida	Naviculales	Amphipleurac	Amphipleura	
Amphora	Thalassiophy	Catenulaceae	Amphora	
Amphora copulata	Thalassiophy	Catenulaceae	Amphora	
Amphora libyca	Thalassiophy	Catenulaceae	Amphora	Amphora copulata
Amphora veneta	Thalassiophy	Catenulaceae	Amphora	
Anorthoneis	Achnanthales	Cocconeidace	Anorthoneis	
Asterionella	Fragilariales	Fragilariacea	Asterionella	
Aulacoseira	Aulacoseirale	Aulacoseirace	Aulacoseira	
Aulacoseira granulata	Aulacoseirale	Aulacoseirace	Aulacoseira	
Aulacoseira herzogii	Aulacoseirale	Aulacoseirace	Aulacoseira	
Bacillaria paxillifer	Bacillariales	Bacillariaceae	Bacillaria	
Bacillariophyceae	Bacillariophyc	Bacillariophyc	Bacillariophyceae	
Bacillariophyta	Bacillariophyt	Bacillariophyt	Bacillariophyta	
Brachysira	Naviculales	Brachysiracea	Brachysira	
Brachysira brebissonii	Naviculales	Brachysiracea	Brachysira	
Brachysira microcephala	Naviculales	Brachysiracea	Brachysira	
Brachysira vitrea	Naviculales	Brachysiracea	Brachysira	
Caloneis	Naviculales	Pinnulariacea	Caloneis	
Caloneis bacillum	Naviculales	Pinnulariacea	Caloneis	
Capartogramma crucicula	Naviculales	Naviculaceae	Capartogramma	
Cavinula	Naviculales	Cavinulaceae	Cavinula	
Cavinula cocconeiformis	Naviculales	Cavinulaceae	Cavinula	
Cavinula jaernefeltii	Naviculales	Cavinulaceae	Cavinula	
Chamaepinnularia margaritiana	Naviculales	Naviculaceae	Chamaepinnularia	
Chamaepinnularia minutissima	Naviculales	Naviculaceae	Chamaepinnularia	
Cocconeis	Achnanthales	Cocconeidace	Cocconeis	
Cocconeis disculus	Achnanthales	Cocconeidace	Cocconeis	
Cocconeis fluviatilis	Achnanthales	Cocconeidace	Cocconeis	

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Taxon Name / SampleID/PerDiaID ->	Order	Family	Genus	Current Name
Cocconeis pediculus	Achnanthales	Cocconeidace	Cocconeis	
Cocconeis placentula	Achnanthales	Cocconeidace	Cocconeis	
Cocconeis pseudothumensis	Achnanthales	Cocconeidace	Cocconeis	
Coscinodiscophyceae	Coscinodisco	Coscinodisco	Coscinodiscophyceae	
Craticula	Naviculales	Stauroneidac	Craticula	
Craticula minusculoides	Naviculales	Stauroneidac	Craticula	
Cyclostephanos invisitatus	Thalassiosiral	Stephanodisc	Cyclostephanos	
Cyclotella	Thalassiosiral	Stephanodisc	Cyclotella	
Cyclotella atomus	Thalassiosiral	Stephanodisc	Cyclotella	
Cyclotella meneghiniana	Thalassiosiral	Stephanodisc	Cyclotella	
Cyclotella pseudostelligera	Thalassiosiral	Stephanodisc	Cyclotella	
Cymbella	Cymbellales	Cymbellacea	Cymbella	
Cymbella aspera	Cymbellales	Cymbellacea	Cymbella	
Cymbella subcuspidata	Cymbellales	Cymbellacea	Cymbella	
Cymbellaceae	Cymbellales	Cymbellacea	Cymbellaceae	
Cymbellales	Cymbellales	Cymbellales	Cymbellales	
Diadesmis confervacea	Naviculales	Diadesmidac	Diadesmis	
Diadesmis contenta	Naviculales	Diadesmidac	Diadesmis	
Diatoma	Fragilariales	Fragilariacea	Diatoma	
Diploneis	Naviculales	Diploneidace	Diploneis	
Diploneis oblongella	Naviculales	Diploneidace	Diploneis	
Diploneis ovalis	Naviculales	Diploneidace	Diploneis	
Diploneis parma	Naviculales	Diploneidace	Diploneis	
Diploneis pseudovalis	Naviculales	Diploneidace	Diploneis	
Encyonema	Cymbellales	Cymbellacea	Encyonema	
Encyonema evergladianum	Cymbellales	Cymbellacea	Encyonema	
Encyonema minutum	Cymbellales	Cymbellacea	Encyonema	
Encyonema neomesianum	Cymbellales	Cymbellacea	Encyonema	
Encyonema silesiacum	Cymbellales	Cymbellacea	Encyonema	
Encyonopsis microcephala	Cymbellales	Cymbellacea	Encyonopsis	
Epithemia	Rhopalodiales	Rhopalodiace	Epithemia	
Eunotia	Eunotiales	Eunotiaceae	Eunotia	
Eunotia bilunaris	Eunotiales	Eunotiaceae	Eunotia	
Eunotia carolina	Eunotiales	Eunotiaceae	Eunotia	
Eunotia exigua	Eunotiales	Eunotiaceae	Eunotia	
Eunotia flexuosa	Eunotiales	Eunotiaceae	Eunotia	
Eunotia formica	Eunotiales	Eunotiaceae	Eunotia	
Eunotia implicata	Eunotiales	Eunotiaceae	Eunotia	
Eunotia incisa	Eunotiales	Eunotiaceae	Eunotia	
Eunotia meisteri	Eunotiales	Eunotiaceae	Eunotia	
Eunotia minor	Eunotiales	Eunotiaceae	Eunotia	
Eunotia naegelii	Eunotiales	Eunotiaceae	Eunotia	
Eunotia paludosa	Eunotiales	Eunotiaceae	Eunotia	
Eunotia pectinalis	Eunotiales	Eunotiaceae	Eunotia	
Eunotia pectinalis undulata	Eunotiales	Eunotiaceae	Eunotia	
Eunotia rhomboidea	Eunotiales	Eunotiaceae	Eunotia	
Eunotia transfuga	Eunotiales	Eunotiaceae	Eunotia	
Eunotia undulata	Eunotiales	Eunotiaceae	Eunotia	

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Taxon Name / SampleID/PerDiaID ->	Order	Family	Genus	Current Name
Eunotia yanomami	Eunotiales	Eunotiaceae	Eunotia	
Eunotia zygodon	Eunotiales	Eunotiaceae	Eunotia	
Fragilaria	Fragilariales	Fragilariaceae	Fragilaria	
Fragilaria brevistriata	Fragilariales	Fragilariaceae	Pseudostauro	Pseudostaurosira brevistriata
Fragilaria capucina	Fragilariales	Fragilariaceae	Fragilaria	
Fragilaria crotonensis	Fragilariales	Fragilariaceae	Fragilaria	
Fragilaria javanica	Fragilariales	Fragilariaceae	Fragilaria	
Fragilaria pinnata	Fragilariales	Fragilariaceae	Staurosirella	Staurosirella pinnata
Fragilaria synegrotesca	Fragilariales	Fragilariaceae	Fragilaria	
Fragilaria virescens	Fragilariales	Fragilariaceae	Fragilaria	Fragilariforma virescens
Fragilariaceae	Fragilariales	Fragilariaceae	Fragilariaceae	
Fragilariforma	Fragilariales	Fragilariaceae	Fragilariforma	
Fragilariforma bicapitata	Fragilariales	Fragilariaceae	Fragilariforma	
Fragilariforma virescens	Fragilariales	Fragilariaceae	Fragilariforma	
Fragilariophyceae	Fragilariophyc	Fragilariophyc	Fragilariophyceae	
Frustulia	Naviculales	Amphipleurac	Frustulia	
Frustulia rhomboides	Naviculales	Amphipleurac	Frustulia	
Frustulia saxonica	Naviculales	Amphipleurac	Frustulia	
Frustulia vulgaris	Naviculales	Amphipleurac	Frustulia	
Geissleria decussis	Naviculales	Naviculaceae	Geissleria	
Gomphonema	Cymbellales	Gomphonema	Gomphonema	
Gomphonema affine	Cymbellales	Gomphonema	Gomphonema	
Gomphonema augur	Cymbellales	Gomphonema	Gomphonema	
Gomphonema clevei	Cymbellales	Gomphonema	Gomphonema	
Gomphonema gracile	Cymbellales	Gomphonema	Gomphonema	
Gomphonema grovei lingulatum	Cymbellales	Gomphonema	Gomphonema	
Gomphonema guaraniarum	Cymbellales	Gomphonema	Gomphonema	
Gomphonema minutum	Cymbellales	Gomphonema	Gomphonema	
Gomphonema parvulum	Cymbellales	Gomphonema	Gomphonema	
Gomphonema truncatum	Cymbellales	Gomphonema	Gomphonema	
Gomphonema vibrio	Cymbellales	Gomphonema	Gomphonema	
Gyrosigma	Naviculales	Pleurosigmat	Gyrosigma	
Gyrosigma obscurum	Naviculales	Pleurosigmat	Gyrosigma	
Hantzschia	Bacillariales	Bacillariaceae	Hantzschia	
Hantzschia amphioxys	Bacillariales	Bacillariaceae	Hantzschia	
Hippodonta	Naviculales	Naviculaceae	Hippodonta	
Hippodonta capitata	Naviculales	Naviculaceae	Hippodonta	
Hippodonta hungarica	Naviculales	Naviculaceae	Hippodonta	
Karayevia clevei	Achnanthales	Achnanthidiac	Karayevia	
Kobayasiella	Naviculales	Naviculaceae	Kobayasiella	
Lemnicola hungarica	Achnanthales	Achnanthidiac	Lemnicola	
Luticola	Naviculales	Diadesmidace	Luticola	
Luticola mutica	Naviculales	Diadesmidace	Luticola	
Melosira	Melosirales	Melosiraceae	Melosira	
Meridion	Fragilariales	Fragilariaceae	Meridion	
Microcostatus polonarum	Naviculales	Naviculaceae	Microcostatus	
Navicula	Naviculales	Naviculaceae	Navicula	
Navicula bouillantensis	Naviculales	Naviculaceae	Navicula	

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Taxon Name / SampleID/PerDiaID ->	Order	Family	Genus	Current Name
Navicula clementis	Cymbellales	Cymbellaceae	Placoneis	Placoneis clementis
Navicula cocconeiformis	Naviculales	Naviculaceae	Navicula	Cavinula cocconeiformis
Navicula constans	Naviculales	Naviculaceae	Navicula	
Navicula cryptocephala	Naviculales	Naviculaceae	Navicula	
Navicula cryptotenella	Naviculales	Naviculaceae	Navicula	
Navicula decussis	Naviculales	Naviculaceae	Geissleria	Geissleria decussis
Navicula elginensis	Cymbellales	Cymbellaceae	Placoneis	Placoneis elginensis
Navicula festiva	Naviculales	Naviculaceae	Navicula	
Navicula gastrum	Cymbellales	Cymbellaceae	Placoneis	Placoneis gastrum
Navicula germainii	Naviculales	Naviculaceae	Navicula	
Navicula heimansioides	Naviculales	Naviculaceae	Navicula	
Navicula ingenua	Naviculales	Naviculaceae	Navicula	
Navicula kotschyi	Naviculales	Naviculaceae	Navicula	
Navicula longicephala	Naviculales	Naviculaceae	Navicula	
Navicula mediocris	Naviculales	Naviculaceae	Chamaepinnu	Chamaepinnularia mediocris
Navicula minima	Naviculales	Naviculaceae	Navicula	
Navicula occulta	Naviculales	Naviculaceae	Navicula	
Navicula peregrina	Naviculales	Naviculaceae	Navicula	
Navicula placenta	Naviculales	Naviculaceae	Navicula	
Navicula placentula	Naviculales	Naviculaceae	Navicula	
Navicula porifera	Naviculales	Naviculaceae	Navicula	
Navicula radiosa	Naviculales	Naviculaceae	Navicula	
Navicula rhynchocephala	Naviculales	Naviculaceae	Navicula	
Navicula rostellata	Naviculales	Naviculaceae	Navicula	
Navicula schroeteri	Naviculales	Naviculaceae	Navicula	
Navicula seminulum	Naviculales	Naviculaceae	Navicula	
Navicula tripunctata	Naviculales	Naviculaceae	Navicula	
Navicula vaneeii	Naviculales	Naviculaceae	Navicula	
Navicula viridulacalcis	Naviculales	Naviculaceae	Navicula	
Naviculaceae	Naviculales	Naviculaceae	Naviculaceae	
Naviculales	Naviculales	Naviculales	Naviculales	
Neidium	Naviculales	Neidiaceae	Neidium	
Neidium alpinum	Naviculales	Neidiaceae	Neidium	
Neidium alpinum quadripunctatum	Naviculales	Neidiaceae	Neidium	
Neidium amphigomphus	Naviculales	Neidiaceae	Neidium	
Neidium binodis	Naviculales	Neidiaceae	Neidium	
Neidium densestriatum	Naviculales	Neidiaceae	Neidium	
Neidium dubium	Naviculales	Neidiaceae	Neidium	
Neidium ladogensis densestriatum	Naviculales	Neidiaceae	Neidium	
Nitzschia	Bacillariales	Bacillariaceae	Nitzschia	
Nitzschia amphibia	Bacillariales	Bacillariaceae	Nitzschia	
Nitzschia clausii	Bacillariales	Bacillariaceae	Nitzschia	
Nitzschia dissipata	Bacillariales	Bacillariaceae	Nitzschia	
Nitzschia frustulum	Bacillariales	Bacillariaceae	Nitzschia	
Nitzschia gracilis	Bacillariales	Bacillariaceae	Nitzschia	
Nitzschia intermedia	Bacillariales	Bacillariaceae	Nitzschia	
Nitzschia linearis	Bacillariales	Bacillariaceae	Nitzschia	
Nitzschia nana	Bacillariales	Bacillariaceae	Nitzschia	

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Taxon Name / SampleID/PerDiaID ->	Order	Family	Genus	Current Name
Nitzschia palea	Bacillariales	Bacillariaceae	Nitzschia	
Nitzschia paleacea	Bacillariales	Bacillariaceae	Nitzschia	
Nitzschia palustris	Bacillariales	Bacillariaceae	Nitzschia	
Nitzschia reversa	Bacillariales	Bacillariaceae	Nitzschia	
Nitzschia scalaris	Bacillariales	Bacillariaceae	Nitzschia	
Nitzschia seriata	Bacillariales	Bacillariaceae	Nitzschia	
Nitzschia serrata	Bacillariales	Bacillariaceae	Nitzschia	
Nitzschia subacicularis	Bacillariales	Bacillariaceae	Nitzschia	
Nupela	Naviculales	Naviculaceae	Nupela	
Nupela cymbelloidea	Naviculales	Naviculaceae	Nupela	
Nupela neotropica	Naviculales	Naviculaceae	Nupela	
Opephora	Fragilariales	Fragilariaceae	Opephora	
Pinnularia	Naviculales	Pinnulariacea	Pinnularia	
Pinnularia acrosphaeria	Naviculales	Pinnulariacea	Pinnularia	
Placoneis	Cymbellales	Cymbellaceae	Placoneis	
Placoneis elginensis	Cymbellales	Cymbellaceae	Placoneis	
Planothidium	Achnanthales	Achnanthidiac	Planothidium	
Planothidium apiculatum	Achnanthales	Achnanthidiac	Planothidium	
Planothidium delicatulum	Achnanthales	Achnanthidiac	Planothidium	
Planothidium frequentissimum	Achnanthales	Achnanthidiac	Planothidium	
Planothidium lanceolatum	Achnanthales	Achnanthidiac	Planothidium	
Planothidium peragalli	Achnanthales	Achnanthidiac	Planothidium	
Planothidium rostratum	Achnanthales	Achnanthidiac	Planothidium	
Pleurosira laevis	Triceratiales	Triceratiaceae	Pleurosira	
Psammothidium daonense	Achnanthales	Achnanthidiac	Psammothidium	
Psammothidium sacculum	Achnanthales	Achnanthidiac	Psammothidium	
Pseudostaurosira brevistriata	Fragilariales	Fragilariaceae	Pseudostaurosira	
Rhopalodia	Rhopalodiales	Rhopalodiace	Rhopalodia	
Rossithidium	Achnanthales	Achnanthidiac	Rossithidium	
Rossithidium pusillium	Achnanthales	Achnanthidiac	Rossithidium	
Sellaphora	Naviculales	Sellaphoracea	Sellaphora	
Sellaphora laevissima	Naviculales	Sellaphoracea	Sellaphora	
Sellaphora pupula	Naviculales	Naviculaceae	Navicula	
Stauroneis	Naviculales	Stauroneidac	Stauroneis	
Stauroneis anceps	Naviculales	Stauroneidac	Stauroneis	
Stauroneis phoenicenteron	Naviculales	Stauroneidac	Stauroneis	
Stauroneis prominula	Naviculales	Stauroneidac	Stauroneis	
Stauroneis smithii	Naviculales	Stauroneidac	Stauroneis	
Staurosira construens	Fragilariales	Fragilariaceae	Staurosira	
Staurosira elliptica	Fragilariales	Fragilariaceae	Staurosira	
Staurosirella	Fragilariales	Fragilariaceae	Staurosirella	
Staurosirella leptostauron	Fragilariales	Fragilariaceae	Staurosirella	
Staurosirella pinnata	Fragilariales	Fragilariaceae	Staurosirella	
Stenopterobia	Surirellales	Surirellaceae	Stenopterobia	
Stenopterobia delicatissima	Surirellales	Surirellaceae	Stenopterobia	
Stephanodiscus	Thalassiosiral	Stephanodisc	Stephanodiscus	
Surirella	Surirellales	Surirellaceae	Surirella	
Surirella angusta	Surirellales	Surirellaceae	Surirella	

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Taxon Name / SampleID/PerDiaID ->	Order	Family	Genus	Current Name
Synedra	Fragilariales	Fragilariacea	Synedra	
Synedra acus	Fragilariales	Fragilariacea	Synedra	
Synedra fasciculata	Fragilariales	Fragilariacea	Tabularia	Tabularia fasciculata
Synedra ulna	Fragilariales	Fragilariacea	Synedra	
Tabellaria	Tabellariales	Tabellariacea	Tabellaria	
Terpsinoe musica	Biddulphiales	Biddulphiace	Terpsinoe	
Thalassionema	Thalassionem	Thalassionem	Thalassionema	
Thalassiosira	Thalassiosiral	Thalassiosira	Thalassiosira	
Tryblionella	Bacillariales	Bacillariacea	Tryblionella	
Tryblionella levidensis	Bacillariales	Bacillariacea	Tryblionella	

SampleID	Peri_IDs	STORET	Station Nickname	Station Description	Bioregion	WBID	Latitude	Longitude
22114	8421	22030010	STMARKSREF	St. Marks R approx 4 mi N of Hwy 98 (@ "rapids")	Panhandle East	793B	30.2402	-84.14539
25672	10528	22030010	STMARKSREF	St. Marks R approx 4 mi N of Hwy 98 (@ "rapids")	Panhandle East	793B	30.2402	-84.14539
47698	20630	BAK210GS	BAK210GS	St. Mary's River - BAK210GS	Northeast	2211	30.4357	-82.28776
48420	18531	32030023	ECONSCTREF	ECONFINA CREEK AT SCOTT RD	Panhandle West	553	30.5554	-85.435
49652	18430	GAD104US	GAD104US	Quincy Creek At Sr267 - GAD104US	Panhandle West	1303	30.6005	-84.58076
49677	18448	LIB104LV	LIB104LV	Mule Creek - LIB104LV	Panhandle West	684	30.5114	-84.82791
49678	18449	LIB104LV	LIB104LV	Mule Creek - LIB104LV	Panhandle West	684	30.5114	-84.82791
50131	19608	CLA254LR	CLA254LR	Black Creek - CLA254LR	Northeast	2415C	29.9796	-81.85229
52471	20006	LEV502GS	LEV502GS	Waccasassa River - LEV502GS	Peninsula	3699	29.2759	-82.73666
52834	21128	273116508208152	EFM02	East Fork Manatee R. S of US62 on Duette Park. Myakka DOSSAC study	Peninsula	1811	27.5213	-82.13756
52912	20031	PUT308GS	PUT308GS	Little Orange Creek - PUT308GS	Peninsula	2713	29.5412	-81.95328
52996	19568	CLA243LV	CLA243LV	Black Creek - CLA243LV	Northeast	2498	29.9108	-81.88487
52997	19569	CLA243LV	CLA243LV	Black Creek - CLA243LV	Northeast	2498	29.9108	-81.88487
53033	19609	CLA254LR	CLA254LR	Black Creek - CLA254LR	Northeast	2415C	29.9796	-81.85229
53059	19639	UNI234LV	UNI234LV	Olustee Creek - UNI234LV	Northeast	3504	30.0959	-82.47286
53060	19640	UNI234LV	UNI234LV	Olustee Creek - UNI234LV	Northeast	3504	30.0959	-82.47286
53732	20850	BAK210GS	BAK210GS	St. Mary's River - BAK210GS	Northeast	2211	30.4357	-82.28776
53951	20328	GLA630GS	GLA630GS	Cypress Branch - GLA630GS	Peninsula	3235G	26.8139	-81.33541
54263	20007	LEV502GS	LEV502GS	Waccasassa River - LEV502GS	Peninsula	3699	29.2759	-82.73666
54275	20032	PUT308GS	PUT308GS	Little Orange Creek - PUT308GS	Peninsula	2713	29.5412	-81.95328
55073	20329	GLA630GS	GLA630GS	Cypress Branch - GLA630GS	Peninsula	3235G	26.8139	-81.33541
55672	20631	BAK210GS	BAK210GS	St. Mary's River - BAK210GS	Northeast	2211	30.4357	-82.28776
57324	21790	3513	FLO521150	Withlacoochee River @ Stokes	Peninsula	1329C	28.9885	-82.34984
57431	21831	PUT308GS	PUT308GS	Little Orange Creek - PUT308GS	Peninsula	2713	29.5412	-81.95328
57811	22009	GAD104US	GAD104US	Quincy Creek At Sr267 - GAD104US	Panhandle West	1303	30.6005	-84.58076
64546	24394	23010464	WITHREF	Withlacoochee R @ county park off Auton Rd (TP3)	Peninsula	1329F	28.3	-82.1
65025	24393	LIB104LV	LIB104LV	Mule Creek - LIB104LV	Panhandle West	684	30.5114	-84.82791
65026	24416	22020093	FLRQUINREF	Quincy Creek above SR267 bridge	Panhandle West	1303	30.5997	-84.58192
65028	24417	GAD106GS	GAD106GS	Yon Creek - GAD106GS	Panhandle West	626	30.5345	-84.77116
65029	24392	NUTREF001	TELOG1641	Telogia Creek at CR 1641	Panhandle West	1300	30.4501	-84.86123
65250	24411	CLA246GS	CLA246GS	Peters Creek - CLA246GS	Northeast	2444	30.0075	-81.74823
65291	24441	3545	S360	S360 Blackwater River @ Hwy 4	Panhandle West	24C	30.8334	-86.73373
65292	24452	32030023	ECONSCTREF	ECONFINA CREEK AT SCOTT RD	Panhandle West	553	30.5554	-85.435
65293	24458	21010008	HAMIL6	ALAPAHA RIVER 1 SR 150 HAMILTON	Panhandle East	3324	30.5999	-83.07342
65296	24444	3546	S365	S365 Yellow River @ Hwy 2	Panhandle West	30	30.9254	-86.55917
65306	24430	BAK208GS	BAK208GS	St. Mary's River - BAK208GS	Northeast	2097K	30.5179	-82.23048
65316	24445	3549	S377	S377 Escambia River @ HWY 4 Bridge	Panhandle West	10C	30.9641	-87.23599
65379	24479	22050083	STEINCANAL	Steinhatchee @ Canal Road	Panhandle East	3573A	29.8288	-83.30847
65382	24482	22050040	LAFAY1	STEINHATCHEE RIVER I SR357	Panhandle East	3573B	29.8903	-83.25278

SampleID	Peri_IDs	STORET	Station Nickname	Station Description	Bioregion	WBID	Latitude	Longitude
65414	24471	WAK158LR	WAK158LR	Sopchoppy River - WAK158LR	Panhandle West	998	30.1301	-84.49394
65567	24491	23010464	WITHREF	Withlacoochee R @ county park off Auton Rd (TP3)	Peninsula	1329F	28.3	-82.1
65636	24518	CLA246GS	CLA246GS	Peters Creek - CLA246GS	Northeast	2444	30.0075	-81.74823
65637	24513	UNI234LV	UNI234LV	Olustee Creek - UNI234LV	Northeast	3504	30.0959	-82.47286
65715	24541	WAK158LR	WAK158LR	Sopchoppy River - WAK158LR	Panhandle West	998	30.1301	-84.49394
65731	24544	19010006	STMAR2REF	ST MARYS RIVER AT SR #2	Northeast	2097K	30.5179	-82.23031
65736	24548	CLA254LR	CLA254LR	Black Creek - CLA254LR	Northeast	2415C	29.9796	-81.85229
65737	24549	CLA243LV	CLA243LV	Black Creek - CLA243LV	Northeast	2498	29.9108	-81.88487
65739	24551	NUTREF001	TELOG1641	Telogia Creek at CR 1641	Panhandle West	1300	30.4501	-84.86123
65741	24553	GAD106GS	GAD106GS	Yon Creek - GAD106GS	Panhandle West	626	30.5345	-84.77116
65891	24591	GLA630GS	GLA630GS	Cypress Branch - GLA630GS	Peninsula	3235G	26.8139	-81.33541
65900	24599	24010002	MANAREF	Manatee R 20 m below SR64 bridge (TP1)	Peninsula	1807C	27.4734	-82.21097
65907	24600	273116508208152	EFM02	East Fork Manatee R. S of US62 on Duette Park. Myakka DOSSAC study	Peninsula	1811	27.5213	-82.13756
65931	24605	22050083	STEINCANAL	Steinhatchee @ Canal Road	Panhandle East	3573A	29.8288	-83.30847
65932	24606	22050040	LAFAY1	STEINHATCHEE RIVER I SR357	Panhandle East	3573B	29.8903	-83.25278

SampleID	Peri_IDs	Sample Date	Nreps	Gear	BacillariophytaPct	ChlorophycotaPct	CryptophycophytaPct	CyanophycotaPct	DiatomNumTaxa	DiatomValveCount
22114	8421	8/22/2000	1	Peri-NS	97.39	0.19	0	2.42		
25672	10528	9/18/2001	1	Peri-NS	96.39	0.4	0	3.01		
47698	20630	11/1/2005	1	Peri-NS	83.73	5.76	0	9.49		
48420	18531	2/15/2006	1	Peri-NS	87.7	5.18	0	7.12		
49652	18430	11/14/2005	1	Peri-NS	87.33	6	0	6.67		
49677	18448	11/21/2005	1	Peri-NS	72.2	9.15	0	18.31		
49678	18449	11/21/2005	1	Peri-NS	100	0	0	0		
50131	19608	11/14/2005	1	Peri-NS	82.33	1	0	16.67		
52471	20006	12/6/2005	1	Peri-NS	89.67	2.33	0	8		
52834	21128	6/21/2006	1	Peri-NS	59.32	2.71	0	36.95	44	500
52912	20031	12/13/2005	1	Peri-NS	95.33	1.67	0	3		
52996	19568	11/14/2005	1	Peri-NS	93.4	3.96	0	2.64		
52997	19569	11/14/2005	1	Peri-NS	100	0	0	0		
53033	19609	11/14/2005	1	Peri-NS	100	0	0	0		
53059	19639	11/15/2005	1	Peri-NS	97.36	0.33	0	2.31		
53060	19640	11/15/2005	1	Peri-NS	100	0	0	0		
53732	20850	3/20/2006	1	Peri-NS	88.47	1.36	0	10.17		
53951	20328	1/23/2006	1	Peri-NS	63.05	9.49	0.34	22.37		
54263	20007	12/6/2005	1	Peri-NS	100	0	0	0		
54275	20032	12/13/2005	1	Peri-NS	100	0	0	0		
55073	20329	1/23/2006	1	Peri-NS	100	0	0	0		
55672	20631	11/1/2005	1	Peri-NS	100	0	0	0		
57324	21790	2/20/2007	1	Peri-NS	90.73	0.66	0	8.61	28	500
57431	21831	2/26/2007	1	Peri-NS	86.67	5.67	0	7.33	33	500
57811	22009	11/14/2005	1	Peri-NS	100	0	0	0		
64546	24394	5/7/2008	1	Peri-NS	72.09	1	0	26.58	45	500
65025	24393	6/10/2008	1	Peri-NS	99	0	0	1	21	500
65026	24416	6/13/2008	1	Peri-NS	93	2	0	5	44	500
65028	24417	6/13/2008	1	Peri-NS	98	0	0	2	20	500
65029	24392	6/10/2008	1	Peri-NS	85	0.33	0	14.67	36	500
65250	24411	5/28/2008	1	Peri-NS	96.67	1.67	0.67	0.33	26	500
65291	24441	7/9/2008	1	Peri-NS	88.45	2.31	0	2.31	28	500
65292	24452	7/24/2008	1	Peri-NS	89.7	5.65	0	3.65	32	500
65293	24458	7/16/2008	1	Peri-NS	83.44	2.92	0	13.31	46	500
65296	24444	7/9/2008	1	Peri-NS	90.07	1.99	0	7.95	37	500
65306	24430	6/18/2008	1	Peri-NS	90.67	9	0	0.33	14	500
65316	24445	7/10/2008	1	Peri-NS	84.72	5.98	0	9.3	32	500
65379	24479	8/12/2008	1	Peri-NS	60.13	3.65	0	36.21	43	499
65382	24482	8/12/2008	1	Peri-NS	79.67	4.33	0	16	42	500

SampleID	Peri_IDs	Sample Date	Nreps	Gear	BacillariophytaPct	ChlorophycotaPct	CryptophycophytaPct	CyanophycotaPct	DiatomNumTaxa	DiatomValveCount
65414	24471	6/19/2008	1	Peri-NS	81.67	3.67	0	14.67	23	500
65567	24491	10/8/2008	1	Peri-NS	84.59	2.95	0	11.48	50	500
65636	24518	10/28/2008	1	Peri-NS	94	2.67	0	2.67	57	502
65637	24513	10/16/2008	1	Peri-NS	95.77	2.82	0	1.41	55	501
65715	24541	11/13/2008	1	Peri-NS	73.05	4.55	0	22.4	38	500
65731	24544	11/12/2008	1	Peri-NS	93.33	4	0	2.33	44	502
65736	24548	11/6/2008	1	Peri-NS	94.67	1.33	0	4	49	500
65737	24549	11/6/2008	1	Peri-NS	98	1	0	0.33	36	500
65739	24551	11/20/2008	1	Peri-NS	87.69	2.56	0	9.74	62	500
65741	24553	11/20/2008	1	Peri-NS	88	2	0	10	56	500
65891	24591	12/16/2008	1	Peri-NS	91.33	0	0	8.67	33	500
65900	24599	12/17/2008	1	Peri-NS	90	0	0	9.33	28	501
65907	24600	12/17/2008	1	Peri-NS	76	0.33	0	23.67	52	500
65931	24605	1/14/2009	1	Peri-NS	67.45	14.77	0.34	16.44	52	500
65932	24606	1/14/2009	1	Peri-NS	73.33	7	0	19.33	41	500

SampleID	Peri_IDs	Dominant DiatomPct	DominantDiatomPct Word	DominantPct
22114	8421			25.14
25672	10528			39.16
47698	20630			83.73
48420	18531			61.81
49652	18430			87.33
49677	18448			72.2
49678	18449			62.4
50131	19608			82.33
52471	20006			89.67
52834	21128	21.8	Fragilariaceae	59.32
52912	20031			95.33
52996	19568			93.4
52997	19569			33.66
53033	19609			29.6
53059	19639			97.36
53060	19640			31.06
53732	20850			88.47
53951	20328			63.05
54263	20007			31
54275	20032			59.2
55073	20329			21.8
55672	20631			71.6
57324	21790	30.4	Melosira	90.73
57431	21831	47	Eunotia	86.67
57811	22009			12.2
64546	24394	20.6	Nitzschia	72.09
65025	24393	29	Eunotia	99
65026	24416	28.8	Navicula	93
65028	24417	53	Navicula	98
65029	24392	15	Achnanthes	85
65250	24411	55.6	Eunotia	96.67
65291	24441	56	Eunotia	88.45
65292	24452	64.4	Eunotia	89.7
65293	24458	15	Diadesmis confervacea	83.44
65296	24444	11	Navicula	90.07
65306	24430	52	Eunotia	90.67
65316	24445	14.8	Planothidium	84.72
65379	24479	23.65	Cocconeis placentula	60.13
65382	24482	39	Achnanthes rupestoides	79.67

SampleID	Peri_IDs	Dominant DiatomPct	DominantDiatomPct Word	DominantPct
65414	24471	40.4	Aulacoseira	81.67
65567	24491	25.4	Nitzschia	84.59
65636	24518	17.33	Eunotia	94
65637	24513	20.56	Nupela	95.77
65715	24541	20.6	Aulacoseira	73.05
65731	24544	20.92	Nitzschia	93.33
65736	24548	23.6	Eunotia	94.67
65737	24549	52.8	Eunotia	98
65739	24551	12.8	Eunotia	87.69
65741	24553	21	Eunotia	88
65891	24591	36.2	Eunotia	91.33
65900	24599	76.65	Melosira	90
65907	24600	19.6	Fragilariaceae	76
65931	24605	35.4	Achnanthes rupestoides	67.45
65932	24606	14	Navicula seminulum	73.33

SampleID	Peri_IDs	DominantPct Word	DominantWetAlgaePct	DominantWetAlgaePct Word	EuglenophycotaPct	PyrrophycophytaPct	TotalNind	TotalTaxa	Sample Comments
22114	8421	Eunotia			0	0	537	30	
25672	10528	Cocconeis placentula			0	0	498	34	
47698	20630	Bacillariophyceae			0.68	0	295	16	
48420	18531	Eunotia			0	0	309	39	
49652	18430	Bacillariophyceae			0	0	300	10	
49677	18448	Bacillariophyceae			0.34	0	295	17	
49678	18449	Eunotia			0	0	500	31	
50131	19608	Bacillariophyceae			0	0	300	9	
52471	20006	Bacillariophyceae			0	0	300	12	
52834	21128	Bacillariophyta	42.5	Jaaginema	1.02	0	295	16	
52912	20031	Bacillariophyceae			0	0	300	10	
52996	19568	Bacillariophyceae			0	0	303	10	
52997	19569	Eunotia			0	0	505	22	
53033	19609	Eunotia			0	0	500	32	
53059	19639	Bacillariophyceae			0	0	303	4	
53060	19640	Pinnularia			0	0	499	30	
53732	20850	Bacillariophyceae			0	0	295	9	
53951	20328	Bacillariophyceae			4.07	0	295	27	
54263	20007	Achnanthes rupestoides			0	0	500	41	
54275	20032	Eunotia			0	0	500	29	
55073	20329	Eunotia			0	0	500	48	
55672	20631	Eunotia			0	0	500	16	
57324	21790	Bacillariophyta	25	Oscillatoria tenuis	0	0	302	13	
57431	21831	Bacillariophyta	22.5	Jaaginema	0.33	0	300	16	
57811	22009	Cocconeis fluviatilis			0	0	500	43	
64546	24394	Bacillariophyta	57.14	Schizothrix calcicola	0.33	0	301	9	
65025	24393	Bacillariophyta	100	Jaaginema	0	0	300	2	
65026	24416	Bacillariophyta	19.05	Synechocystis	0	0	300	10	
65028	24417	Bacillariophyta	66.67	Planktolyngbya	0	0	300	4	
65029	24392	Bacillariophyta	71.11	Schizothrix calcicola	0	0	300	5	
65250	24411	Bacillariophyta	30	Chlorella	0.33	0.33	300	8	
65291	24441	Bacillariophyta	57.14	Batrachospermum	0.33	0	303	12	
65292	24452	Bacillariophyta	16.13	Synechocystis	1	0	301	17	
65293	24458	Bacillariophyta	31.37	Synechocystis	0.32	0	308	17	
65296	24444	Bacillariophyta	23.33	Synechocystis	0	0	302	14	
65306	24430	Bacillariophyta	50	Mougeotia	0	0	300	7	
65316	24445	Bacillariophyta	19.57	Protococcus	0	0	301	12	
65379	24479	Bacillariophyta	51.67	Anabaena subcylindric	0	0	301	12	
65382	24482	Bacillariophyta	18.03	Jaaginema	0	0	300	16	

SampleID	Peri_IDs	DominantPct Word	DominantWetAlgaePct	DominantWetAlgaePct Word	EuglenophycotaPct	PyrrophycophytaPct	TotalNind	TotalTaxa	Sample Comments
65414	24471	Bacillariophyta	72.73	Anabaena	0	0	300	9	
65567	24491	Bacillariophyta	25.53	Jaaginema	0.98	0	305	18	
65636	24518	Bacillariophyta	22.22	Jaaginema	0.67	0	300	8	
65637	24513	Bacillariophyta	66.67	Oedogonium	0	0	71	3	
65715	24541	Bacillariophyta	24.1	Schizothrix calcicola	0	0	308	17	
65731	24544	Bacillariophyta	15	Jaaginema	0.33	0	300	11	
65736	24548	Bacillariophyta	56.25	Schizothrix calcicola	0	0	300	6	
65737	24549	Bacillariophyta	33.33	Chlorella	0	0	300	6	
65739	24551	Bacillariophyta	29.17	Schizothrix calcicola	0	0	195	10	
65741	24553	Bacillariophyta	25	Jaaginema	0	0	300	12	
65891	24591	Bacillariophyta	69.23	Schizothrix calcicola	0	0	300	6	
65900	24599	Bacillariophyta	50	Jaaginema	0.67	0	300	7	
65907	24600	Bacillariophyta	87.5	Schizothrix calcicola	0	0	300	6	
65931	24605	Bacillariophyta	22.68	Chlorella	0	0	298	20	
65932	24606	Bacillariophyta	23.75	Synechocystis	0.33	0	300	15	

SampleID	Peri_IDs	Ben/Per/Phy /MacPhy Comments
22114	8421	LIMS476051?
25672	10528	lims547453?
47698	20630	SID-55672
48420	18531	Ref SCI,Biorecon,water,Periphyton samples taken,SCI shipped to Tall.,Turb. viola
49652	18430	57811??
49677	18448	49678?
49678	18449	49677
50131	19608	SID-53033
52471	20006	SID-54263
52834	21128	not enough leaves to sample. Neoperla observed
52912	20031	SID-54275
52996	19568	SID-52997
52997	19569	SID-52996??
53033	19609	SID-50131??
53059	19639	SID-53060
53060	19640	SID-53059??
53732	20850	SID-55852
53951	20328	SID-55073
54263	20007	SID-52471??
54275	20032	SID-52912??
55073	20329	SID-53951??
55672	20631	SID-47698??
57324	21790	
57431	21831	
57811	22009	SID-49652
64546	24394	Habitats have alot of sponge on them
65025	24393	
65026	24416	
65028	24417	
65029	24392	
65250	24411	
65291	24441	
65292	24452	
65293	24458	
65296	24444	
65306	24430	
65316	24445	
65379	24479	
65382	24482	

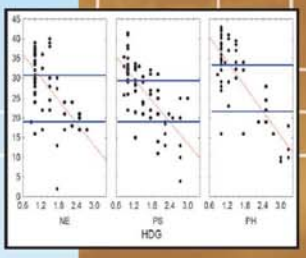
As Calculated / STORET station ->	20030341	20030342	33010065	21030064
Sample date ->	10/2/1995	10/2/1995	2/14/1996	2/6/1996
	SampleID	SampleID	SampleID	SampleID
	7778/BenthID	7779/BenthID	9179/BenthID	9196/BenthID
Taxon Name / SampleID/BenID ->	8855(#counted)	8856(#counted)	10164(#counted)	10181(#counted)
Hydrobiidae	0	0	0	1
Hydrodroma	0	0	0	0
Hydrophilidae	0	0	0	0
Hydroporus	0	0	0	0
Hydropsyche	0	0	0	0
Hydropsyche decalda	0	0	0	0
Hydropsychidae	0	0	0	0
Hydroptila	0	0	0	0
Hydroptilidae	0	0	0	0
Hygrobates	1	0	0	0
Hygrotus	0	0	0	0
Ischnura	0	0	0	0
Ischnura hastata	0	0	0	0
Isonychia	0	0	0	0
Isoperla	0	0	0	0
Isopoda	0	0	0	2
Isotomurus	0	0	0	0
Isotomurus tricolor	0	0	0	0
Kiefferulus	0	0	0	0
Krendowskia	0	0	0	0
Labiobaetis	0	0	0	0
Labrundinia	0	0	0	1
Labrundinia becki	0	1	0	0
Labrundinia johannseni	0	0	0	0
Labrundinia neopilosella	0	0	0	0
Labrundinia pilosella	0	0	0	0
Laevapex	0	0	0	0
Laevapex peninsulae	0	0	0	0
Larsia berneri	0	0	0	0
Larsia decolorata	0	0	0	0
Lauterborniella agrayloides	0	0	0	0
Lebertia	0	0	0	1
Lepidoptera	0	0	0	0
Leptoceridae	0	0	0	0
Leptophlebia	0	0	0	0
Leptophlebiidae	0	0	7	0
Leuctra	0	0	0	0
Libellulidae	0	0	0	0
Limnesia	0	0	0	0
Limnodrilus hoffmeisteri	16	2	2	0
Limnophila	0	0	0	0
Limonia	0	0	0	0
Liodessus	0	0	1	0
Liodessus affinis	0	0	0	0
Lioporeus	0	0	0	0
Lirceus	0	0	0	0
Littoridinops monroensis	0	2	0	0
Lumbriculidae	0	0	0	0
Lumbriculus variegatus	0			

Appendix A6. FDEP's Development and Testing of Biomonitoring Tools for Macroinvertebrates in Florida Streams

Cross-reference:

Appendix B-2: FDEP's Development and Testing of Biomonitoring Tools for Macroinvertebrates in Florida Streams. U.S. EPA. 2010. *Technical Support Document for U.S. EPA's Proposed Rule for Numeric Nutrient Criteria for Florida's Inland Surface Fresh Waters. Water Quality Standards for the State of Florida's Lakes and Flowing Waters. Proposed Rule.* January 14, 2010. EPA-HQ-OW-2009-0596, FRL-9105-1.

Development and Testing of Biomonitoring Tools for Macroinvertebrates in Florida Streams



DEPARTMENT OF ENVIRONMENTAL PROTECTION
FLORIDA

Nonpoint Source Bioassessment Program

DEVELOPMENT AND TESTING OF BIOMONITORING TOOLS FOR MACROINVERTEBRATES IN FLORIDA STREAMS (STREAM CONDITION INDEX AND BIORECON)

Final Report

Prepared for:

Florida Department of Environmental Protection
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Dedication

On behalf of the Florida Department of Environmental Protection, the Biocriteria Committee dedicates this document to Dr. James R. Karr.

We would like to thank Dr. Karr for his vision, guidance, and mentoring during the development of its monitoring, assessment, and water quality standards programs. We recognize and appreciate his lifelong dedication to the creation, improvement, and implementation of biological monitoring to protect water resources.

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The following biologists throughout Florida collected and identified stream macroinvertebrate samples:

Central District (Orlando)
- *Dana Denson*
- *Phil Kane*
- *Steve Kent*
- *Eric Pluchino*

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- *Frank Butera*
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- *Donald Ray*

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- *Emily Springer*

FOREWARD

The original version of this document was completed in 2004. Subsequently, important observations made during the routine application of these bioassessment tools, as well as new EPA guidance for formulating biological criteria, prompted DEP to revise the document in two key areas.

First, the thresholds for interpreting the final Stream Condition Index values have been revised. This was partially due to responses from DEP biologists, who noted that many reference streams, formally evaluated as "excellent" using the pre-2004 SCI criteria, were now considered "fair", or sometimes "poor" using the SCI 2004 thresholds. Additionally, in 2006, EPA promoted using the Biological Condition Gradient approach as a nationally standardized and scientifically robust method for developing defensible biocriteria. Using this approach, and a second line of evidence concerning the variability of the reference condition, new SCI thresholds have been devised.

An additional revision to the document addressed measurement error of the SCI related to laboratory subsampling methods which were subsequently modified to improve the precision of the SCI without substantially increasing the cost. This involved increasing the number of individuals examined and averaging the results from two independent aliquots from a field sample.

Science is an iterative process: incremental improvements are made as new evidence and experience accumulate. Such was the motivation behind the revisions made in the original document and as a result of additional statistical analyses conducted during 2004–2006. This document represents the work and expertise of many people, all dedicated to applying the best science possible for the protection of Florida's stream resources.

ABSTRACT

The Florida Department of Environmental Protection assesses the chemical, physical, and biological condition of hundreds of stream sites each year. This study used measures of hydrologic condition, riparian and channel habitat condition, water chemistry, and intensity of human land use to define a gradient of human disturbance for stream sites. We evaluated the sensitivity and tolerance of over 1,000 stream macroinvertebrate taxa using the human disturbance gradient (HDG). We tested for correlation between the HDG and 36 biological measures of the stream macroinvertebrate assemblage (metrics), and selected the 10 most highly correlated metrics within 6 categories of biological organization: taxonomic richness (total number of taxa, number of Trichoptera taxa, and number of Ephemeroptera taxa); feeding group (percentage filterer individuals); voltinism (long-lived taxa richness); habit (clinger taxa richness); community structure (percentage dominance of the most abundant taxon and percentage Tanytarsini midges); and sensitivity and tolerance (sensitive taxa richness and percentage very tolerant individuals).

Metrics were combined into an overall Stream Condition Index (SCI) by transforming metric values into unitless scores and summing the scores. The SCI was highly correlated with the HDG for an independent dataset (Spearman's $r = -0.81$, $p < 0.001$). The SCI was independent of watershed size and geographic region (Florida panhandle, peninsula, and northeast). Across 10 years of sampling, the index showed a similar response to the HDG. The SCI was somewhat higher for winter versus summer samples (3.5%). To summarize the statistical precision of the SCI, we used confidence intervals to calculate that the SCI could distinguish 3.7 categories of biological condition. These results supported subsequent selection of three assessment categories for interpreting SCI values in a regulatory context. A large portion of the variability of the SCI was due to subsampling in the laboratory (49%). To reduce this variability, laboratory sorting procedures have subsequently been modified to target two aliquots of 150 individuals, with the resulting SCI values averaged.

We also tested biological metrics for a second stream macroinvertebrate sampling protocol (the BioReconnaissance Index, or BioRecon), which was based on the sorting of invertebrates in the field and taxonomic identification in the laboratory. Of the 10 SCI metrics, 6 taxa richness metrics were tested using BioRecon data; all were highly correlated with both the SCI and HDG. From these metrics, the BioRecon Index was calculated as the sum of scores for the 6 metrics. The statistical precision of the BioRecon index was sufficient to detect 2.5 categories of biological condition which supported the subsequent decision to select three assessment categories for regulatory purposes.

We primarily followed the EPA 2006 Biological Condition Gradient approach for translating index values into biocriteria for Florida streams. For this approach, a panel of 22 regional scientists examined data representing multiple tiers of aquatic life use for the ultimate purpose of defining biological criteria for state water quality standards. In addition, the experts recommended a threshold of biological condition at which impairment occurs as a result of human disturbance. A secondary, but parallel analysis based on departure from reference condition yielded similar index values for the impairment threshold. Based on these complementary results, three categories of aquatic life use are proposed for Florida streams and described as Category 1 ("exceptional"), Category 2 ("healthy"), and Category 3 ("impaired").

CHAPTER 1: INTRODUCTION

Florida, along with a handful of other states, leads the nation in the development and implementation of water protection policies based on biological criteria (McCarron and Frydenborg, 1997; U. S. Environmental Protection Agency [EPA], 2002). Under the federal Clean Water Act, states are required to define designated uses for specific waterbodies and develop criteria to protect them (Karr, 1991; Ransel, 1995). Over time, the emphasis has shifted from what was primarily the chemical monitoring of pollutants to include the direct measurement of the condition of the biological assemblage (Yoder and Rankin, 1998).

Florida classifies its surface waters according to their designated uses. The five categories are ranked in order of the level of protection that they require, as follows:

Class I–Drinking water;
Class II–Shellfish propagation or harvesting (primarily for coastal waters);
Class III–Recreation and propagation and maintenance of a healthy, well-balanced population of fish and wildlife;
Class IV–Agricultural water; and
Class V–Navigation and industrial use.

This document describes the development and testing of biological monitoring tools for macroinvertebrate stream samples for the assessment of freshwater streams that are applicable to Class I and III waters. FDEP has convened a Designated Uses Policy Advisory Committee (DUPAC) to explore an alternative system of designated use classification for Florida (see Chapter 4 below). We anticipate that FDEP will propose Aquatic Life Use (AL) categories, to which these biological monitoring tools for Class I and III streams would also apply.

The EPA has developed numerous guidance documents to support biological assessment (EPA, 1998; Barbour et al., 1999; Bowman et al., 2000; Jackson et al., 2000; EPA, 2001; EPA, 2002; EPA, 2003a, b, c; Fore, 2003). These documents typically emphasize multimetric indexes to measure the biological condition of surface waters (Karr, 1981; Karr et al., 1986; Barbour et al., 1999). The EPA's recent document, *Draft Report on the Environment 2003,* specifically recognizes multimetric indexes as an "approach that addresses the need to measure critical multiple variables" (EPA, 2003a).

Multimetric indexes are composed of biological measures, called metrics, that show a consistent response to human disturbance (Karr and Chu, 1999). Metrics are converted to unitless scores and summed to obtain a summary index. Multimetric indexes have been developed for fish, birds, invertebrates, and algae in a variety of ecological contexts in North America, Europe, and Asia (Thorne and Williams, 1997; Hughes et al., 1998; Hughes and Oberdorff, 1998; Karr and Chu, 1999; Bryce et al., 2002; Fore and Grafe, 2002; Klemm et al., 2003). Most states use multimetric indexes for biological assessment, although other techniques have been developed (Hawkins et al., 2000; EPA, 2003b, c).

Background

Barbour et al. (1996) developed multimetric indexes for Florida that have been used since the early 1990s. The authors tested metrics by comparing values at sites with minimal human influence (reference sites) and sites with known disturbance (test sites). They identified three unique geographic regions based on the presence of shared taxa and defined metric expectations for each region.

In contrast, this study selected metrics on the basis of their correlation with a gradient of human disturbance (Bryce et al., 1999). The sensitivity and tolerance of over 1,000 taxa were also evaluated individually, using the human disturbance gradient (HDG). We used confidence intervals to estimate the

precision associated with the indexes. Working with a panel of regional experts, aquatic life use categories were derived to support management decision related to listing stream sites as impaired and prioritizing sites for additional evaluation as part of the TMDL (Total Maximum Daily Load) process (Karr and Yoder, 2004).

From the original analysis by Barbour et al. (1996), two multimetric indexes were developed for Florida streams based on different sampling and identification protocols. The Stream Condition Index (SCI) was derived from laboratory processing and the identification of samples, while the Biological Reconnaissance (BioRecon) Index was based on field sorting and laboratory identification. This study develops new bioassessment tools for both sampling protocols. For simplicity's sake, the names of the indexes have been retained for this new analysis, and the previous indexes are referred to as the old SCI and the old BioRecon Index within this document.

Methods

Study area

Portions of Florida have been repeatedly inundated by seawater in recent geologic history; as a consequence, elevation and organism recruitment from adjacent, noninundated areas play an important role in the present-day geographic distribution of macroinvertebrates. Florida can be divided geographically into the northern panhandle, the southern peninsula, and a transitional region known as the northeast. The middle and lower Suwannee Basin provides a natural demarcation between the panhandle and peninsula, with the northeast region straddling the upper Suwannee northeast of the Cody Escarpment (White, 1970).

In the Florida panhandle, rivers typically flow from north to south, and the elevation of headwater streams typically exceeds 200 to 250 feet. The recruitment of stream organisms (over geologic time) from upstream, higher elevation areas (Georgia and Alabama) makes the panhandle richer in freshwater stream taxa than other parts of the state (Florida Natural Areas Inventory [FNAI], 1990). Vegetation communities in the panhandle generally consist of mixed pine/oak/hickory forests (*Pinus* spp., *Quercus* spp., *Carya* spp.); longleaf pine forests (*Pinus palustris*); hardwood forests with a beech/magnolia climax community (*Fagus grandiflora*/*Magnolia grandiflora*); and swamp hardwood forests of cypress (*Taxodium* spp.) or tupelo (*Nyssa* spp.), interspersed with a mosaic of pine plantations, cropland (e.g., corn, soy beans, and peanuts), and pasture (Soil and Water Conservation Society (SWCS), 1989; Fernald and Purdum, 1992). The panhandle is less densely populated by humans than the other areas.

The peninsula has a sandy highland ridge extending down its center almost to Lake Okeechobee. The elevation of the central ridge is approximately 150 to 200 feet. Rivers west of the ridge flow into the Gulf of Mexico. Of the two large drainages east of the ridge, the Kissimmee River flows south into Lake Okeechobee, and the St. Johns River flows north to the Atlantic. Streams in the peninsula tend to have lower water velocity, flowing through wetlands and pine flatwoods (White, 1958). The peninsula has fewer freshwater invertebrate taxa due to the lack of upstream recruitment sources that did not experience marine inundation. Plecoptera, for example, are common in the panhandle but extremely rare in the peninsula, probably due to a combination of poor recruitment, warmer temperatures, and lower water velocities. Peninsular vegetation communities on the ridge consist of longleaf pine/turkey oak forests (*Pinus palustris/Quercus laevis*); on flat areas are slash pine (*Pinus eliottii*) or loblolly pine (*Pinus teada*) with a palmetto/gallberry understory (*Serenoa repens/Ilex glabra*); and in depressional areas are marsh/wet prairies (maidencane, pickerel weed) and hardwood wetlands of sweetbay (*Magnolia virginiana*), cypress (*Taxodium* spp.), and ash (*Fraxinus* spp.; SWCS, 1989). The dominant land use is pasture, cropland (e.g., watermelons, nursery products, and tomatoes), and urban areas (Fernald and Purdum, 1992). Dense population centers are located at Tampa and Orlando.

The northeast region includes portions of the Okeefenokee Swamp, parts of the upper Suwannee drainage, the Black Creek drainage, and the Sea Island flatwoods. From the perspective of stream invertebrates, this region tends to be intermediate between the panhandle and peninsula regions. With the exception of the Black Creek Basin, with headwaters approximately 200 feet above sea level, other streams in this area tend to be low-relief, wetland systems (Snell and Anderson, 1970). Plant communities consist of longleaf pine/turkey oak (*Pinus palustris/Quercus laevi)* on the sandy uplands; hardwood wetlands of cypress (*Taxodium* spp.), tupelo (*Nyssa* spp.), and loblolly bay (*Gordonia lasianthus*); pine flatwoods; and marsh (FNAI, 1990). Jacksonville is the region's only major population center.

Barbour et al. (1996) used macroinvertebrate stream samples collected from sites with minimal human influence to evaluate the influence of geographic locations on species assemblages. The authors found that the panhandle, peninsula, and northeast regions, which are primarily defined according to drainage patterns, were better predictors of species assemblages than were subecoregions described by Griffith et al*.* (1994). Regional differences translate into expectations of higher taxonomic diversity in the panhandle relative to the peninsula, with the northeast region representing a transitional area.

Site selection and datasets

The Florida Department of Environmental Protection (FDEP) has collected thousands of macroinvertebrate samples from stream sites throughout the state from 1991–2001. Many sites have been visited repeatedly. Sites and visits were selected from this large database using different criteria for different testing situations **(Table 1).** For example, when testing for metric correlation with disturbance, a range of site conditions was needed; to evaluate variability, sites with many repeat visits were needed; to evaluate laboratory subsampling, large samples were needed. Some datasets contained data from the same sites, and other sites were selected to provide an independent test. For some testing situations, data from site visits were averaged by sites—for example, when one variable in the analysis had only one value for each site, such as the HDG.

The relationship between human disturbance and biological condition was evaluated in several ways. To develop the HDG, FDEP biologists selected sites from their regions that represented the broadest possible range of human influence. First, to ensure that the relationships observed between human land use and biological metrics were consistent and not specific to a particular set of sites, 2 independent sets of sites were tested. These data were then combined to obtain 223 sites to test for metric correlation with the HDG. An additional, independent set of 23 sites was used to test the correlation between the SCI and HDG.

Additional datasets were compiled to estimate the variability of the biological metrics and indexes associated with repeat visits to a site, estimate the variability associated with laboratory subsampling, and evaluate the influence of field sorting versus laboratory sorting. To evaluate SCI variability, data from 62 sites with 2 to 8 visits were selected. About half the sites (32) had repeat visits on the same day. Most of the other repeat visits were during different years, and a few were within the same year. Thus, these data could not be used to estimate the influence of seasons on variability. Instead, additional data were compiled to test for seasonal (winter versus summer) differences in the SCI. To test the influence of subsampling during laboratory processing for the SCI protocol, 3 subsamples were selected from 59 samples collected from 54 sites (5 sites also had 2 duplicate samples each).

To test metrics and evaluate their variability for the BioRecon protocol, 2 additional datasets were used. The first dataset included 116 sites with macroinvertebrate samples collected according to both the BioRecon and SCI sampling protocols. We tested BioRecon metrics for correlation with the SCI and HDG. Most sites had at least 2 visits, and several had 3 to 6 visits. Of the 116 sites, 53 had values calculated for the HDG because they were used initially to develop the HDG. To evaluate the variability of the BioRecon metrics and index, 128 sites were selected, with 2 to 7 visits per site.

The dataset used to test the SCI and its component metrics against the HDG was large; therefore, simple scatter plots of data against the HDG would be difficult to interpret with the many data points and overstrikes. Consequently, we used box plots to display the range of values associated with different values of the HDG. In all figures, the box defined the 25th and 75th percentiles, the whiskers were the nonoutlier range, and the outliers were calculated as values greater (or less) than 1.5 times the length of the distance from the 25th to the 75th percentile value. During 1991–2001, laboratory protocols mandated a target number of 100 individuals; however, this target was often exceeded due to the laboratory protocols of the time. Several graphs include data from samples with 75 to 175 individuals in order to more closely match the target sample size. A more restrictive range (e.g., 75–125 individuals) would have resulted in too high a loss of sites for testing. Additional analysis (not shown) indicated that the ranges of metric values were similar for an upper limit of 125 and 175 individuals. In recent years (2004–2006), FDEP has modified laboratory protocols to more often match the target number of individuals **(see Appendix G)**. For the BioRecon testing, the number of individuals identified was not recorded; therefore, all site visits were used within a particular analysis, unless specifically stated otherwise.

Table 1. Description of various datasets, number of sites sampled, total number of visits to all sites (varied by site), and total number of subsamples taken in the laboratory for all visits

Some sites were included in more than 1 dataset, except for the 23 independent sites used to verify the correlation between the SCI and HDG.

Purpose	Sites	Visits	Lab Subsamples
Test HDG consistent for 2 rounds of data			
Round 1	154	469	0
Round 2	69	160	0
Test metrics vs. HDG	223	629	0
Score metrics (same data as above, but only samples with 75 to 175 individuals included)	176	420	0
Test sensitive and tolerant taxa versus HDG	226	632	0
Verify SCI with independent data	23	23	0
Determine SCI variability	62	220	0
Determine seasonal variation of SCI	78	578	0
Evaluate laboratory subsampling variability for SCI	54	59	177 (3 each)
Calibrate BioRecon metrics with SCI	116	165	0
Test BioRecon metrics versus HDG	53		0
Evaluate BioRecon variability	128	293	0

Quantifying human disturbance

Karr and colleagues describe five factors to summarize the ways in which humans alter and degrade rivers and streams (Karr et al., 1986; Karr et al., 2000): flow regime, physical habitat structure, water quality, energy source, and biological interactions. First, the natural flow regime of a stream may be altered by dams, water removal, or water return. In extreme cases, changes in water volume or flow timing can result in flooding or dry channels. Second, stream macroinvertebrates depend on a variety of physical habitat types for food, shelter, and reproduction. A greater diversity of substrate size, types of vegetation, and bank architecture translates into a greater variety of organisms. Third, water quality may

be evaluated in terms of turbidity, conductivity, nutrient concentrations, or the presence of other chemicals or metals. Fourth, energy source describes the seasonal availability, type of organic material, and size and shape of material available as food. Fifth, the introduction of exotic species or disease and the harvest of fish and shellfish for sport, commercial, and subsistence uses can alter biological interactions such as competition or predation within the natural assemblage.

Data were available to measure four of the five factors. FDEP biologists developed a hydrologic scoring system based on their knowledge of water removal, patterns of drought, and hydrographs for the sites **(Table 2).** To measure habitat condition, FDEP biologists routinely calculate a habitat condition index whenever stream macroinvertebrate samples are collected (FDEP, 2004). The index evaluates substrate condition and availability, water velocity, habitat smothering (e.g., by sand and silt), channelization, bank stability, and the width and condition of riparian vegetation. During the period of data collection, the habitat index was modified to include additional measures that raised the total number of possible points. To make habitat condition comparable across years, the total habitat score was converted to a percentage by dividing the score by the total possible points.

Table 2. Hydrologic condition of stream site, scoring range for hydrologic index, and description of human influences

The high or low values within each condition class were assigned at the discretion of the biologist based on the extent of disturbance. These changes were associated with human disturbances, not natural events such as hurricanes or extreme droughts.

Condition	Score	Description
Excellent	1–2	Flow regime as it naturally occurs (slow and fairly continual release of water after rains), few impervious surfaces; high connectivity with ground water and surface features delivering water (e.g., sandhills, wetlands; no ditches or berms)
Good	3–4	Flow regime minimally changed; some water withdrawals; some wetland drainage, some impervious surfaces, some ditching
Moderate	5–6	Flow regime moderately altered; hydrograph moderately flashy (scouring after rain events with subsequent reductions in flow), ground water pumping evident; much wetland drainage, topographic alterations reduce natural water input; more impervious surfaces, dams/control structures change normal water delivery schedule
Poor	7–8	Flow regime highly altered; hydrograph very flashy (scouring after rain events with subsequent reductions in flow, leading to stagnant or dry conditions related to large amounts of impervious surfaces and/or ditching); water withdrawals and impoundments or control structures severely alter flows; large areas of impervious surfaces
Very poor	9–10	Flow regime entirely human controlled; hydrograph very flashy (scouring after rain events with subsequent reductions in flow, leading to stagnant or dry conditions related to impervious surfaces and ditching); intensity of water withdrawals and impoundments fundamentally alter the nature of the ecosystem

FDEP biologists also routinely collect measurements of turbidity, temperature, dissolved oxygen, conductivity, and nutrient concentrations. Total phosphate (TP), ammonia (NH_3), total Kjeldahl nitrogen (TKN), and nitrites/nitrates (NO_x) were measured to summarize nutrients. We selected NH_3 to summarize water quality because it was the most consistently associated with the other water quality measures and had the most complete record of data. TP had similar high correlations and complete data, but may be

more closely associated with fertilizer and farming practices, while NH_3 may be a more general indicator of both urbanization and agriculture.

A measure of the type and quantity of energy available to organisms living within the stream was not available. However, Brown and colleagues have developed an index to estimate the intensity of human land use based on nonrenewable energy flow (Brown et al., 1998; Brown and Vivas, 2005). The Landscape Development Intensity (LDI) Index was calculated as the percentage area within the catchment of particular types of land use multiplied by the coefficient of energy use associated with that land use, summed over all land use types in the catchment **(Table 3).**

$$LDI = \sum \left(LDI_i * \%LU_i \right).$$

Where:

LDIi = the nonrenewable energy land use for land use i, and
%LUi = the percentage of land area in the catchment with land use i.

Brown and colleagues derived the coefficients for each land use type from actual billing records and published literature, translated reported energy use into standardized units, and then averaged the values by land use type and standardized to a per-unit area. The calculations used only nonrenewable energies, which included electricity, fuels, fertilizers, pesticides, and water (both public water supply and irrigation).

Land use was derived from aerial photos manipulated as layers in a geographic information system (GIS) computer program. The LDI was calculated in 2 ways. First, a buffer area of 100 meters on each side of the stream and 10 kilometers upstream of the sampling point was used (LDI_BF). Because the definition of the buffer region was somewhat arbitrary, the LDI was also calculated for the entire upstream catchment (LDI_WS) in order to determine which spatial scale was a better predictor of site condition. We selected LDI_BF to include in the HDG because it was slightly more highly correlated with NH_3, the hydrologic index, and the habitat index **(Table 4).**

To define the HDG, we converted the 4 measures of human disturbance to unitless scores and summed the scores to create HDG values for each stream site **(Appendix A)**. Three of the measures had values of 0, 1, or 2, indicating low, moderate, or high levels of human influence. One measure, hydrologic condition, had an additional value of 4 available to indicate extreme levels of disturbance **(Table 5).** Thus, values for the HDG ranged from 0 (indicating minimal human disturbance) to 9 (indicating extreme disturbance). The scores for the HDG were derived from a graphical analysis of EPT taxa richness plotted against each measure of disturbance. We identified values for each disturbance measure for which the number of EPT taxa was consistently lower. For NH_3, 9 sites had no information. Most of these sites had values for other measures indicating minimal human disturbance. We assumed for these sites that NH_3 was less than 0.1 milligram per liter (mg/L).

Table 3. Description of land use and the coefficient value used to calculate the LDI

Higher values indicate greater intensity of human land use (Brown and Vivas, 2005).

Land Use	LDI Value
Natural Open Water	1.00
Natural System (no human activity)	1.00
Pine Plantation	1.58
Woodland Pasture	2.02
Pasture	2.77
Recreational/Open Space (low-intensity)	2.77
Low-Intensity Pasture (with livestock)	3.41
Citrus	3.68
High-Intensity Pasture (with livestock)	3.74
Row crops	4.54
Single-Family Residential (low-density)	6.79
Recreational/Open Space (high-intensity)	6.92
High-Intensity Agriculture	7.00
Single-Family Residential (medium-density)	7.47
Single-Family Residential (high-density)	7.55
Low-Intensity Highway	7.81
Low-Intensity Commercial	8.00
Institutional	8.07
High-Intensity Highway	8.28
Industrial	8.32
Low-Intensity Multifamily Residential	8.66
High-Intensity Commercial	9.18
High-Intensity Multi-family Residential	9.19
Low-Intensity Central Business District	9.42
High-Intensity Central Business District	10.00

Table 4. Correlation table of NH_3 (mg/L), hydrologic index, habitat index, LDI for the buffer, LDI for the upstream watershed, natural log of watershed size, HDG, current SCI, and old SCI for 223 stream sites (except NH_3, for which n = 214)

Repeat visits to individual sites were averaged for each site. All values shown were significant (Spearman's r, p < 0.01).

	NH_3	Hydro	Habitat	LDI_BF	Ln (Size)	HDG	SCI
NH_3	-	0.43	–0.45	0.39	–0.20	0.50	–0.56
Hydro	0.43	-	–0.66	0.61	–0.36	0.84	–0.71
Habitat	–0.45	–0.66	-	–0.64	0.41	–0.78	0.66
LDI_BF	0.39	0.61	–0.64	-	–0.37	0.79	–0.60
LDI_WS	0.34	0.56	–0.55	0.74	–0.28	0.70	–0.59
Ln (Size)	–0.20	–0.36	0.41	–0.37	-	–0.41	0.36
HDG	0.50	0.84	–0.78	0.79	–0.41	-	–0.76
SCI	–0.56	–0.71	0.66	–0.60	0.36	–0.76	-
Old SCI	–0.43	–0.59	0.56	–0.54	0.29	–0.69	0.86

Table 5. Scoring rules for measures used to calculate the HDG

The HDG is the sum of the scores for each site.

Measure	0	1	2	3
NH_3 (mg/L)	<0.1	0.1–2	>2	
Habitat index (% of total possible points)	>65	50–65	<50	
Hydrologic index	<6	6–7	8–9	10
LDI	<2	2-3.5	>3.5	

Stream macroinvertebrate sampling

FDEP uses two protocols to collect invertebrate samples from streams. The protocols differ in the number of dip net sweeps collected, the location of sample sorting (field versus laboratory), and the final index used for assessment. The BioRecon sampling protocol was designed to be a quick field assessment that could yield a same-day measure of stream site condition. The SCI sampling protocol was meant to be more precise. Both protocols use a D-frame dip net with a 0.25-meter opening and a 600-micrometer mesh net. Both protocols distribute the sweeps among the best available substrates on an approximately equal basis. Florida streams typically have a sandy substrate that supports very few invertebrates. Therefore, the habitat sampled for macroinvertebrates includes logs, roots, and undercut banks; partially decayed leaf packs; aquatic vegetation; and rocks or large cobble. During SCI sampling, if 4 productive substrates are present (snags, roots, vegetation, and leaf packs), each substrate would be sampled 4 times, with sand being sampled 4 times, for a total of 20 sweeps.

In the laboratory, the SCI sample is divided by spreading it onto gridded trays. Squares are randomly selected, and all the material within a square is sorted. Macroinvertebrates are identified to the lowest practical taxonomic level. For the 2004 to 2006 time period, squares were selected until the target sample size of 100 individuals was reached. To avoid bias, the final square selected is always finished,

even if it contains more than 100 individuals. The current method targets two separate aliquots of 150 individuals. The number of taxa and the relative abundance of each taxon are derived from these data.

BioRecon data are collected using four dip net sweeps from a stream site. Samples are sorted for live macroinvertebrates in the field. The sample is spread in a pan, and the biologist searches through all the material for every unique taxon present. Each taxon is preliminarily identified in the field, and representative specimens of each taxon are preserved and returned to the laboratory for final identification under a dissecting microscope. From this field-sort protocol, the number of taxa present at a site can be measured, but their relative abundance (% composition) cannot.

Metric development and testing

Several authors have described relevant candidate metrics for stream macroinvertebrate assemblages (Barbour et al., 1996 and 1999; Kerans and Karr, 1994; and Klemm et al., 2002). For this study, we evaluated 36 candidate metrics related to taxonomic richness, feeding group, voltinism, habit, community structure, and tolerance or sensitivity for their association with the HDG **(Table 6).** Within each category, we selected metrics with the highest correlation with the HDG (Spearman's *r*). We used one-sided tests to calculate *p*-values because if a metric indicated better biological condition in response to increased human disturbance, that relationship would not be *biologically* significant even if it were statistically significant. All metrics were also evaluated graphically to ensure that they were reliable indicators of disturbance. We tolerated variability in metric values for minimally disturbed sites (low HDG) because not all sources of disturbance were known. For example, water chemistry data were unavailable for metals, pesticides, or other toxics. In contrast, we considered an inconsistent response at more highly disturbed sites to be unacceptable.

Taxonomic richness

Richness was calculated as the number of unique taxa found within a particular group, such as the Ephemeroptera, Plecoptera, or Trichoptera, or their combination (EPT).

Feeding group

Trophic designations followed Merritt and Cummins (1996); FDEP biologists and others modified some designations to reflect natural histories in Florida (Merritt et al., 1996). All feeding group metrics were calculated as the number of individuals of a particular group, divided by the total number of individuals in the sample times 100 (percentage).

Voltinism

Most stream insects spend the majority of their lives as larvae underwater and emerge as adults to mate. The length of time between generations, which is called voltinism, may be less than a year, approximately one year, or greater than one year. We used published sources to identify taxa that require more than one year to complete their life cycles (**Appendix B**; Brigham et al., 1982; Thompson, 1984; Thorp and Covich, 1991; Pescador et al., 1995; Corbet, 1999; Pescador et al., 2000; Smith, 2001; Rasmussen and Pescador, 2002). These taxa require consistent flows and other favorable conditions throughout the year to complete their life cycles. Data on generation length were not available for all Florida taxa; therefore, the current list may not include some long-lived taxa.

Table 6. Candidate metric, correlation with the HDG, and whether the metric was included in the final SCI, BioRecon, or original SCI

Correlation was tested for 223 sites, with repeat visits to each site averaged before statistical testing. Hyperabundance was tested without averaging, n = 577. All correlations shown were significant at p < 0.01 (Spearman's r, one-sided test).

Metric	HDG	SCI	BioRecon	Old SCI
Taxonomic richness				
EPT	–0.73			yes
Trichoptera	–0.66	yes	yes	
Ephemeroptera	–0.66	yes	yes	
Total taxa	–0.52	yes	yes	yes
Diptera	–0.44			
Chironomidae	–0.40			yes
Plecoptera	–0.37			
Oligochaeta	0.32			
Noninsect	-			
Feeding group				
% Filterer	–0.46	yes		yes
% Scavenger	–0.38			
% Browser/grazer	–0.30			
% Collector/gatherer	0.29			
% Predator	–0.21			
% Plant piercer	–0.18			
% Parasite	-			
% Scraper	-			
% Shredder	-			
Voltinism				
Long-lived taxa	–0.41	yes	yes	
% Long-lived	–0.35			
Habit				
Clinger taxa	–0.71	yes	yes	
% Clinger	–0.61			
Community structure				
% Dominance	0.47	yes		yes
Hyperabundance	-			
% Ephemeroptera	–0.58			
% Trichoptera	–0.55			
% Tanytarsini (Chironomidae)	–0.45	yes		
% Plecoptera	–0.37			
% Oligochaeta	0.32			
% Non-insect	0.32			
% Chironomidae	-			
% Diptera	-			yes
Sensitivity/tolerance				
Sensitive taxa	–0.75	yes	yes	
Florida index (sensitive)	–0.71			yes
% Very tolerant	0.70	yes		
Very tolerant taxa	0.61			

The list included all taxa in the family Cordulegastridae and selected taxa in the families Aeshnidae, Gomphidae, and Libellulidae (Odonata); the family Leuctridae and selected genera in the families Perlidae and Pteronarcidae (Plecoptera); the family Corydalidae (Megaloptera); and the genera *Ceraclea, Pycnopsyche, Molanna,* and *Rhyacophila* (Trichoptera). Several Coleoptera taxa (beetles) also require more than a year to complete their life cycles, but were not included because the FDEP database does not currently distinguish between larvae (which cannot travel to find water) and adults (which can). Noninsects included in the long-lived list were all taxa in the family Decapoda, the genera *Fossaria* and *Pomacea* (Gastropoda), and the families Unionidae and Corbiculidae (Pelecypoda).

Habit

Other studies have noted a strong correlation between the taxonomic richness of clingers and stream condition (Fore et al., 2001; Karr and Morishita Rossano, 2001; Mebane, 2002). Clingers have morphological and behavioral adaptations that allow them to cling to substrate (Merritt and Cummins, 1996). Channel dredging and the removal of riparian vegetation eliminate the habitat preferred by clingers.

Community structure

Percentage dominance was calculated as the number of individuals in the most abundant taxon, divided by the total number of individuals in the sample. ”Hyperabundance” represented a measure of the density of stream macroinvertebrates present at a site. Sites with high organic enrichment (e.g., sewage effluent) may have a high density of invertebrates due to the increased source of food for many species. The actual number of individuals present in the total sample was not recorded; however, the number of grids in the sample tray that were searched to best approximate the target number of 100 individuals was recorded. We used the number of grid cells searched as a measure of the density of invertebrates present, or hyperabundance. Other measures of community structure were based on the number of individuals within specific taxonomic groups divided by the total number of individuals.

Sensitivity and tolerance

Beck (1954) developed a list of sensitive taxa for Florida that was used to calculate a biotic index, which was later modified to be the Florida Index. To calculate the Florida Index (which is more accurately termed a metric), very sensitive taxa are given a score of 2 and sensitive taxa a score of 1. The scores are summed to calculate this metric.

We used the HDG to evaluate the sensitivity and tolerance of 1,195 taxa names. The taxa names included taxa that were not unique because the database included synonyms for the same taxa, as well as specimens identified to genus and species for the same genus. Because many sites had multiple visits and because less-disturbed (reference) sites tended to have a greater number of visits, we summarized data for each taxon *by site* to avoid bias associated with greater sampling effort at less-disturbed sites. We counted a taxon as present at a site if it was found for >= 50% of the site visits. We divided the 226 sites into 2 groups and, for simplicity’s sake, refer to these groups as “good” and “poor” for statistical testing. Good sites were defined as those with moderate levels of disturbance for no more than 2 measures (e.g., the LDI or NH_3) or high disturbance for no more than 1 measure (e.g., habitat condition). This translated into HDG <= 2 and included 141 sites. The remaining 85 sites were classified as poor. Thus, the 2 groups might be more accurately labeled better and worse, rather than good and poor. The relatively high number of sites selected to represent good condition reflects the large number of reference sites in the dataset.

We used contingency table analysis to determine what percentage of taxon occurrences in the good-versus-poor range of HDG values represented a statistically significant difference (chi-square test, Yates continuity correction). As for any test, the number of sampling points increases the power of the

test, such that less extreme difference will be statistically significant. For example, if a taxon occurred at 10 sites, all of the occurrences (100%) would have to be in the good range of the HDG to be statistically significant ($p < 0.05$). In contrast, if a taxon occurred at 38 sites, it would only need to occur at 30 of the good sites (79%) and would still be statistically significant.

For this reason, we chose not to use a strictly statistical criterion for selecting sensitive taxa. Instead, for more common taxa we only selected those with 87% or more of their occurrences in good sites. Using this criterion of 87%, if a taxon occurred at 30 sites, 27 or more of the sites would have to be in the good range of the HDG. The *p*-value associated with this would be $p < 0.002$. A strictly statistical criterion would have selected taxa that *prefer* good conditions, rather than taxa that *require* good conditions. Thus, we used a statistical rule to define the minimum number of occurrences needed for statistical significance but made the standards for selection more strict ($p << 0.05$) for taxa that were more common.

Defining a statistical rule for the selection of tolerant taxa was not possible, because tolerant taxa can also "tolerate" good conditions. Instead, very tolerant taxa were defined as those found in at least 10 sites and for which >= 50% of their occurrences were in the poor range of the HDG. In some cases, multiple species within a genus failed to meet the criteria for inclusion as sensitive (or very tolerant) because they were not present at enough sites. If several species within a genus (or family) were consistently found at good (or poor) sites, we combined the species into the parent genus (or family) and evaluated the genus (or family).

For the BioRecon data, we only tested metrics used in the SCI in order to make the indexes as similar as possible. Relative abundance metrics could not be calculated for these data; therefore, only taxa richness metrics were evaluated. BioRecon metrics were tested for correlation with the SCI and HDG.

Index development and testing

We defined 2 indexes by selecting metrics that showed the most consistent response to the HDG. One index was developed for the SCI protocol (20 dip net samples and laboratory sorting of macroinvertebrates) and another for the BioRecon protocol (4 dip net samples and field sorting).

For the SCI, we transformed metrics into unitless scores by determining the 95th percentile values for each metric and then dividing each metric value by its range and multiplying by 10. Metrics that declined with disturbance were scored from 0 to 10, and metrics that increased with disturbance were scored from 10 to 0, so that the best biological condition was consistently scored as a 10. For skewed metrics, the natural log was calculated before dividing by the metric range. This process was done separately for the northeast, peninsula, and panhandle regions. We tested for differences in metric expectation associated with different regions by comparing the regression lines for each metric against the HDG and adjusted metric scoring as necessary to ensure similar responses for all metrics in the 3 regions.

For the BioRecon Index, we scored metrics to match the SCI metric scores as closely as possible. Using histograms to evaluate the overlap of the BioRecon and SCI metrics measured at the same sites, we adjusted metric scoring for the BioRecon metrics as needed. In order to distinguish between the BioRecon and SCI, BioRecon metrics were scored from 0 to 1 (rather than 0 to 10). In this way, the index values provide a quick clue as to which index is being reported.

After correlation with disturbance was confirmed for both indexes, we evaluated different sources of variability, either due to natural sources (e.g., watershed size or season) or the sampling method (e.g., laboratory subsampling). We used correlation to test for dependence of the SCI on watershed size. To test the influence of season on the SCI, 78 sites with summer and winter samples were compared using a paired *t*-test. Summer was defined as May through October and winter as November through April. Within each season, data for repeat visits to each site were averaged.

To evaluate other sources of variance, such as site differences, year differences, and repeat visits, we used an ANOVA model to estimate variance components. For the SCI and BioRecon, we estimated variance associated with site, year, site x year interaction, and error. Error was defined as variance associated with repeat visits to the same site within a year. For the SCI data, most of the repeat visits within a year occurred on the same day, rather than at different times during the year. For the BioRecon, most of the repeat visits were on different days within the same or a different year; very few were same day.

Error estimates from ANOVA (mean squared error) were used to calculate the 90% confidence interval for both indexes and the number of categories of biological condition that each index can reliably detect (Zar, 1984). Confidence limits were calculated as:

$$\text{SCI} \pm \left(\sqrt{\frac{s^2}{n}} * 1.645 \right),$$

Where:

s^2 = error variance estimated from ANOVA (mean squared error), and
n = number of samples taken from the site.

To calculate the number of categories each index could detect, we divided its range (0 to 100 for the SCI and 0 to 10 for the BioRecon) by the confidence interval. Other statistical approaches could be used to calculate the number of categories of biological condition that the indexes can reliably detect. For example, a 90% confidence interval could also be constructed based on the *difference* in SCI values for 2 sites. This approach would yield a smaller confidence interval: instead of *n* = 1 in the equation above, *n* would equal 2 because 2 SCI values would be involved in calculating the difference. Currently there are no standards for which statistical model to use; therefore, we used confidence intervals around the SCI for a single site because they are conceptually simple and somewhat conservative from a statistical point of view. In other words, this approach is less likely to be controversial (Johnson, 1999; Hoenig and Heisey, 2001). The number of categories of biological condition that an index could reliably detect were only used to summarize the precision of the indexes. The assessment categories used to define biocriteria for water quality standards were derived from an entirely different process (see Chapter 4: *Application of Biomonitoring Tools* below).

We also used an ANOVA model to estimate variability associated with laboratory subsampling. For this model, data from 59 sites with 3 subsamples each were used to estimate site variance and error variance. For this model, error was defined as the differences associated with subsamples from the same site visit.

Statistical model assumptions

The method described here for calculating confidence intervals assumes that the multimetric indexes are normally distributed. Other studies have evaluated the statistical properties of multimetric indexes and found that multimetric indexes for fish and invertebrates are unimodal and symmetric (Fore et al., 1994; Doberstein et al., 2000; Blocksom, 2003); thus, an underlying normal distribution is an appropriate assumption for multimetric indexes. A separate and additional consideration is whether to use *z*-values from the normal distribution to calculate 90% confidence limits or values from Student's *t* distribution. For small sample sizes, the *t*-distribution should be used for calculating confidence limits

because variance may be underestimated; for large sample sizes (df > 30), however, the two distributions converge. We used data from 61 sites to estimate variance; therefore, *z*-values were appropriate.

The 2 datasets used to estimate variance for the SCI and BioRecon Index were unbalanced—that is, the number of visits to each site varied for each site. In contrast, the dataset used to evaluate laboratory subsampling was balanced with 3 subsamples for each site visit. ANOVA assumes a balanced design but is fairly robust to violations of this assumption (Milliken and Johnson, 1992). The primary consequence of an unbalanced design is related to the significance testing of model effects against the error term, which was not the purpose of this analysis. Rather, the goal for these ANOVAs was to estimate an error to use in the confidence interval calculations and to evaluate the relative contributions of year and error to the metrics and indexes. For estimation of the error term, the large sample sizes mitigate any potential inaccuracy associated with unbalanced cells. Sample sizes greater than about 30 are considered large, and this analysis had 61 sites for the SCI and 128 for the BioRecon.

CHAPTER 2: RESULTS

Human disturbance gradient

The human disturbance gradient (HDG) was a consistent predictor of biological condition for two independent rounds of testing. When metrics were regressed against HDG for the two rounds of data, the slopes and intercepts of the regression lines were nearly identical, indicating that measures included in the HDG yielded a reliable measure of human disturbance **(Figure 1).**

Correlations among the four measures of human disturbance used to define the HDG were high, indicating good agreement among the different measures **(see Table 4).** All the individual measures, however, were more highly correlated with the HDG, suggesting that the HDG was a better overall measure of general human disturbance. The SCI showed a similar pattern and was more highly correlated with the HDG than the individual measures of human disturbance.

Metric selection

On average, 30 insect taxa were found in each sample for the 629 site visits used to test metrics. Diptera dominated the samples, with 23 taxa counted on average; of these taxa, about half were in the family Chironomidae. Of the remaining groups, 3 oligochaete, 2 Trichoptera, 1 Ephemeroptera, and 1 Plecoptera taxa were found, on average.

For many metrics, the change in values from least to most disturbed sites was dramatic. We compared the 20 best sites (HDG = 0 and the lowest values for LDI_WS) with the 18 worst sites (HDG > 6) and found that total taxa richness went from 33 to 19, on average. The number of Ephemeroptera taxa declined from 2 to 0, Trichoptera taxa from 4 to 0, clinger taxa from 8 to 0, and sensitive taxa from 9 to 0. The relative abundance of filterers declined from 22% to 3%, while the relative abundance of tolerant individuals increased from 5% to 69%.

In general, we selected at least one metric from each of the categories below according to which metric was most highly correlated with the HDG. If two metrics were calculated from the same set of taxa (redundant metrics), we only included one metric.

Taxonomic richness

EPT taxa richness was most highly correlated with the HDG, followed by Trichoptera and Ephemeroptera taxa richness **(see Table 6).** Both taxonomic groups disappeared from samples with high levels of disturbance **(Figure 2).** Correlation between the HDG and Plecoptera taxa richness was somewhat lower, primarily because very few plecopterans were found in samples from the peninsula region. We selected Ephemeroptera and Trichoptera taxa richness as separate metrics because they have the potential to respond to different types of disturbance. We did not select Plecoptera taxa richness as a metric because it could only be applied in two of the three regions. Total taxa richness had the next highest correlation and was selected as an indicator of the variety of taxa that a stream site could support.

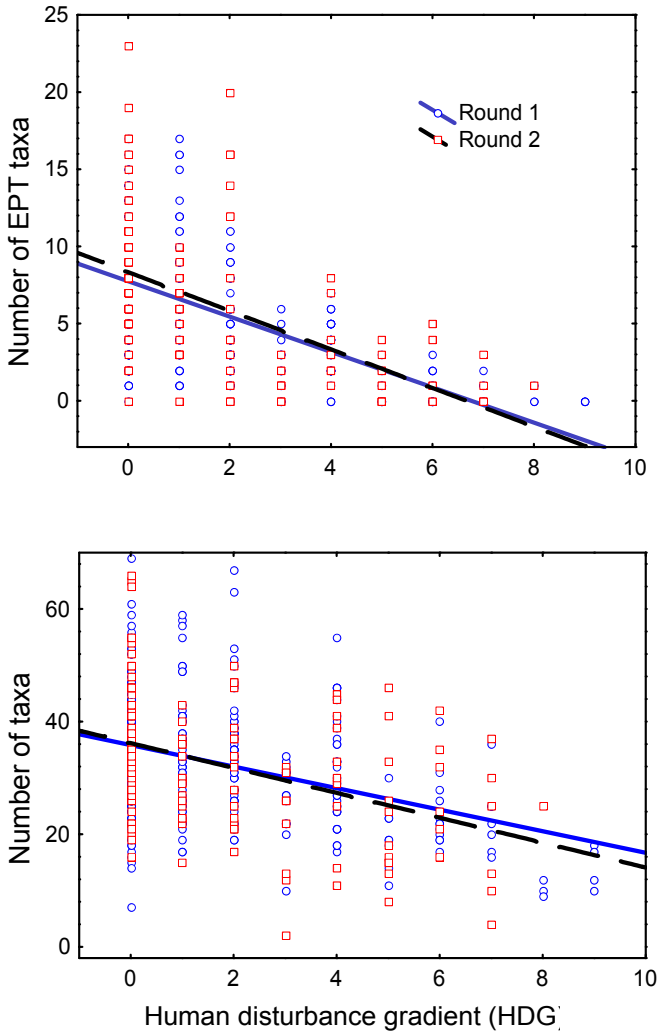

Figure 1. Number of EPT taxa and total number of taxa declined as human disturbance increased. Nearly identical regression lines for two independent sets of sites (rounds 1 and 2) indicated a consistent relationship between HDG and biological condition.

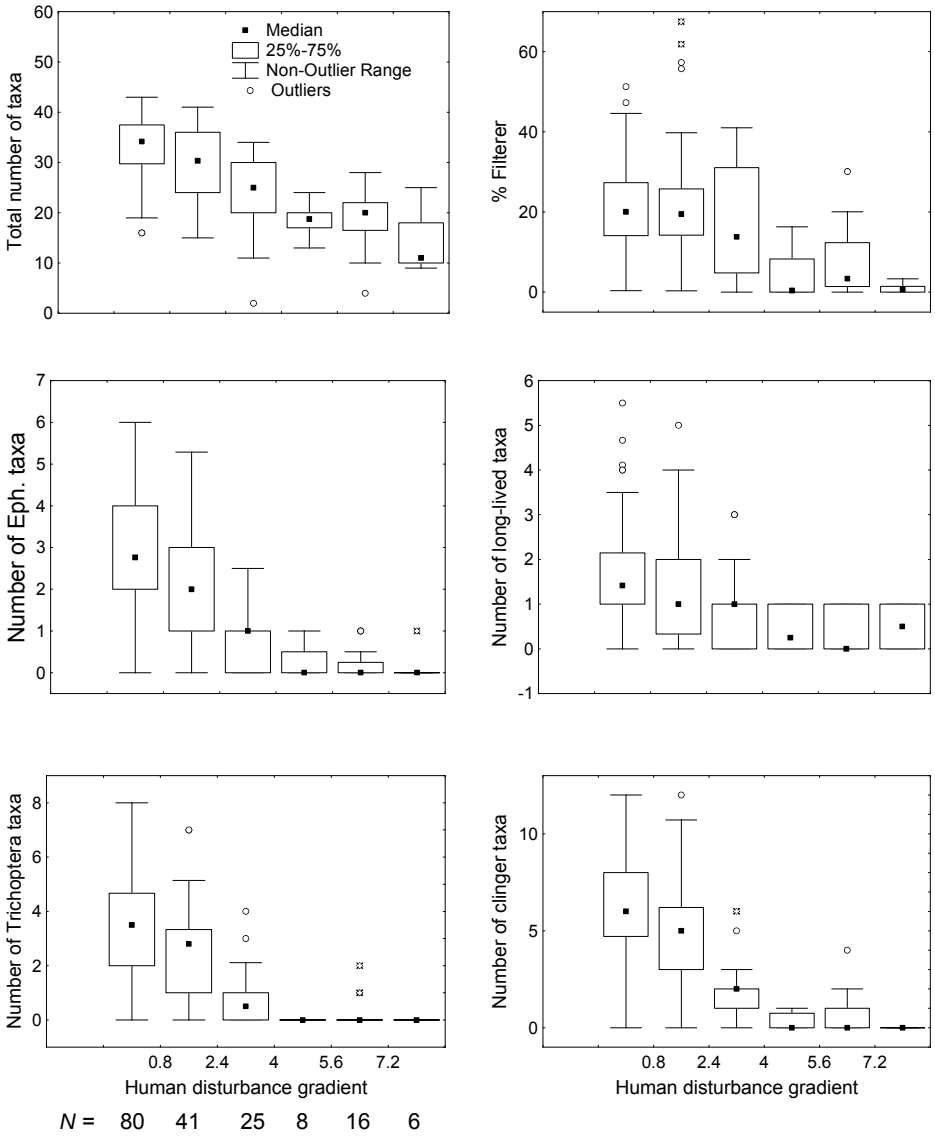

Figure 2. Six of the ten metrics included in the SCI plotted against the human disturbance gradient. All metrics declined with an increase in human disturbance. Metric values were averaged for each of the 176 sites. Samples with greater than 175 or less than 75 individuals were excluded before averaging. Number of sites within each box are shown (*N*). Plotted values are less than or equal to values on x-axis.

Feeding group

The relative abundance of filterers (percentage filterer individuals) had the highest correlation with the HDG and the most consistent relationship with the HDG when graphed. Other feeding groups failed to show the consistent decline with disturbance that percentage filterer did. We also tested this metric without *Cheumatopsyche* (a somewhat tolerant genus of Trichoptera), but the changes in correlation were very small, and so all taxa were retained (Spearman's r = –0.46 with *Cheumatopsyche* and –0.47 without).

Voltinism

Correct information about generation times was not easily obtained for all Florida taxa; therefore, we only tested long-lived taxa richness and percentage long-lived individuals. Long-lived taxa included semivoltine insects and noninsects that require more than one year to complete their life cycles. Long-lived taxa richness was more highly correlated with the HDG than was relative abundance of long-lived individuals; consequently, long-lived taxa richness was included in the SCI.

Habit

Clinger metrics measured either as taxa richness or as percentage of individuals were among the most highly correlated metrics with the HDG. We selected clinger taxa richness for inclusion in the SCI.

Community structure

Percentage dominance increased with the HDG and was included in the SCI **(Figure 3)**; hyperabundance failed to correlate with the HDG. Although percentage Ephemeroptera and Trichoptera individuals (relative abundance) were both strongly correlated with the HDG, they were calculated from the same information used to calculate the taxa richness of those two groups. Because the taxa richness metrics were more highly correlated with the HDG, the relative abundance of Ephemeroptera and Trichoptera was not included in the index. Correlation for the relative abundance of Tanytarsini midges was not quite as high as the other composition metrics (–0.45), but was included in the SCI as the best available measure of the chironomid assemblage.

Sensitivity and tolerance

The number of taxa selected as sensitive equaled ~12% of the taxa tested, and the number of very tolerant taxa was ~10% of the taxa tested. Many sensitive taxa belonged to the Ephemeroptera or Trichoptera; several chironomids were also included **(Appendix C).** All the Plecoptera were included, though most of the genera and species in this group were too rare to test. Considered as a group, out of 191 occurrences of Plecoptera taxa, only one was found in the poor section of the HDG. All Plecoptera taxa showed a strong tendency to be found in the best of the good (minimally disturbed) sites. Many of the sensitive taxa selected by this study were previously noted by Beck (1954) and used in the Florida Index, but several taxa were new to the list. Many of the taxa included on Beck's list were too uncommon to test with this dataset.

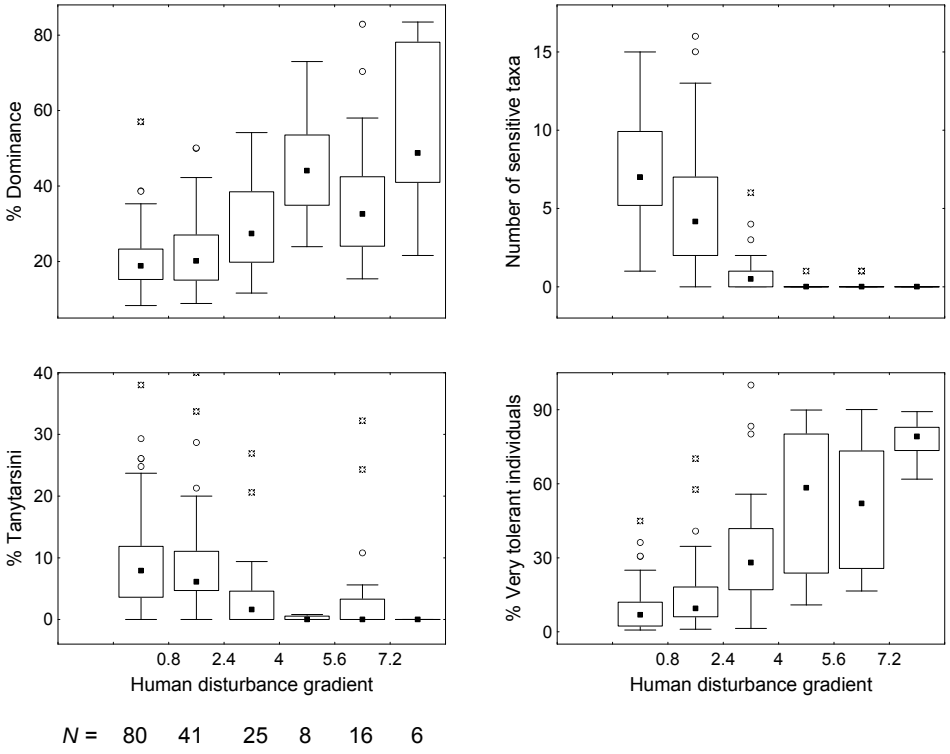

Figure 3. Four of the ten metrics included in the SCI plotted against the human disturbance gradient. Percent dominance and very tolerant individuals increased with disturbance; sensitive and Tanytarsini midge taxa declined. Metric values were averaged for each of the 176 sites. Samples with greater than 175 or less than 75 individuals were excluded before averaging. Number of sites within each box are shown (*N*).

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The very tolerant list included one odonate (*Argia sedula*) and several chironomid taxa (*Larsia spp.*, *Cricotopus bicinctus,* and *Polypedilum illinoiense* grp.) previously noted as sensitive and included in the Florida Index **(Appendix D).** The very tolerant list was dominated by noninsects and chironomids, along with several odonate taxa. One species of tubificid worm, *Limnodrilus hoffmeisteri*, was included as very tolerant, although it was present at 47% of the poor sites that failed to meet the criterion of > = 50% of poor sites. *L. hoffmeisteri* was included as very tolerant because it was very common at all sites. It occurred at 70 out of 85 poor sites, and tended to increase in relative abundance with disturbance. Other studies have also reported tolerance of *L. hoffmeisteri* to a variety of disturbance types (Chapman, 2001; Chapman et al., 1982)

The total number of taxa with 10 or more occurrences was 168. When a large number of tests are conducted, questions arise regarding the probability of Type I error. The detection of a statistically significant result will occur with the approximate frequency of *p*-value. For a *p*-value of 0.05 and 168 tests, approximately 8 taxa may be selected by chance alone (0.05 * 168 = 8.4). The number of sensitive taxa falsely selected from this analysis is likely much lower because the criterion for selection was more strict than statistical significance. In other words, the *p*-values associated with 87% occurrence of more common taxa, e.g., taxa present at 20 or more sites, were much smaller.

BioRecon metrics

The six taxa richness metrics calculated from BioRecon data were significantly correlated with the HDG and highly correlated with the SCI (*r* ranged from 0.60–0.73; **Table 7**). The four SCI metrics calculated as percentages could not be tested because relative abundance was not recorded for BioRecon data. For this reason, we tested the very tolerant metric in terms of *taxa richness* rather than as a percentage. Its correlation was poor with the HDG and nonsignificant with the SCI, and therefore it was not included in the BioRecon Index.

Multimetric index construction and evaluation

Ten metrics were selected for inclusion in the SCI, and six were selected for the BioRecon Index. Most of the SCI metrics required regional scoring (**Table 8; Appendix E;** FDEP, 2007)**.** In general, taxa richness tended to be higher in the panhandle region than in the peninsula or northeast.

For the SCI, the highest correlation between metrics occurred between Trichoptera and clinger taxa (Spearman's *r* = 0.77) and clinger and sensitive taxa (*r* = 0.84). To determine whether these metrics were redundant, we evaluated the taxa included in each metric. Of the clinger taxa, approximately 41% were also sensitive taxa, and 33% were also Trichoptera taxa. Thus, we concluded that the statistical correlation was due to an underlying association with human disturbance, rather than redundant information.

Two metrics were somewhat skewed, that is, their distributions had long "tails" with sparse values at one end of their distribution. For these metrics, we calculated the natural log of metric values before dividing by the range of the metric values. In this way, metric scores were more evenly spread between 0 through 10. Two SCI metrics increased with disturbance (% dominance and % very tolerant individuals); all others declined with disturbance.

BioRecon metric scoring rules differed somewhat from SCI metric scoring. Taxa richness tended to be lower in two regions, while Ephemeroptera taxa richness was much higher in the panhandle **(Table 9).** More long-lived taxa tended to be found in all three regions for BioRecon samples.

Table 7. Correlation of BioRecon metrics and the old and new BioRecon Indexes with the HDG and SCI

Metrics included in the BioRecon Index are noted (*). All correlations shown were statistically significant (Spearman's r, p < 0.01, one-sided test, n = 116 for SCI, n = 53 for HDG). Data from multiple visits were averaged for each site.

Metric/Index	HDG	SCI
BioRecon Index	-0.58	0.75
Total taxa*	-0.36	0.53
Ephemeroptera taxa*	-0.47	0.62
Trichoptera taxa*	-0.65	0.68
Long-lived taxa*	-0.46	0.65
Clinger taxa*	-0.48	0.67
Sensitive taxa*	-0.63	0.69
Very tolerant taxa	NS	NS
Old BioRecon Index	-0.41	0.58
EPT	-0.61	0.71
Florida Index (metric)	-0.53	0.69

Table 8. SCI metric name and range of metric values used to assign a score of 0 (indicating degraded condition) to 10 (indicating minimal disturbance) by region

Metric values higher or lower than the listed range were assigned a score of 0 or 10 as appropriate. Metric ranges listed in reverse order indicate metrics that increased (rather than declined) with disturbance. For two marked metrics (*), the natural log was calculated for the range of values before scoring.

SCI Metric	Northeast	Panhandle	Peninsula
Total taxa	16–42	16–49	16–41
Ephemeroptera taxa	0–3.5	0–6	0–5
Trichoptera taxa	0–6.5	0–7	0–7
% Filterer	1–42	1–45	1–40
Long-lived taxa	0–3	0–5	0–4
Clinger taxa	0–9	0–15.5	0–8
% Dominance	54–10	43–10	54–10
% Tanytarsini *	0–26	0–26	0–26
Sensitive taxa	0–11	0–19	0–9
% Very tolerant *	78–0	36–0	59–0

Table 9. BioRecon metric name and range of metric values used to assign a score of 0 (indicating degraded condition) to 1 (indicating minimal disturbance) by region

Metric values higher or lower than the listed range were assigned a score of 0 or 10 as appropriate. Underlined text indicates metric ranges that differed from those for the SCI.

BioRecon Metric	Northeast	Panhandle	Peninsula
Total taxa	**14–37**	16–49	**11–36**
Ephemeroptera taxa	0–3.5	**0–12**	0–5
Trichoptera taxa	0–6.5	0–7	0–7
Long-lived taxa	**0–6**	**0–10**	**0–7**
Clinger taxa	**0–7**	0–15.5	0–8
Sensitive taxa	0–11	0–19	0–9

The SCI was highly correlated with the HDG, with minimal overlap between values for extremely disturbed and minimally disturbed sites **(Figure 4).** The BioRecon Index was also highly correlated with the HDG and was more responsive across the range of human disturbance than the original BioRecon Index **(Figure 5).**

Regional scoring at the metric level resulted in an SCI that showed a similar response to human disturbance within each region. The regression lines for the SCI versus HDG for the northeast and peninsula regions were nearly identical; the line for the panhandle region diverged somewhat from the other two regions for more degraded sites **(Figure 6; Appendix F).** The divergence was associated with two sites in the panhandle with SCI values that were higher than expected. We did not alter the metric scoring rules, because several other panhandle sites did obtain the lowest SCI values for high levels of disturbance.

We calculated the natural log of the area upstream of the sampling site to test for correlation between the SCI and watershed size. Watershed size had an underlying correlation with the HDG **(see Table 4)** because the most disturbed sites tended to have small watersheds. To avoid this confounding association, we divided the sites into 3 groups (low, medium, and high disturbance) before testing for correlation between the SCI and watershed size. The low disturbance group of sites had HDG values equal to 0. We defined medium disturbance as HDG values from 2 to 5 and high disturbance as HDG values > 5. The SCI was not significantly associated with watershed size for any of the 3 levels of disturbance (**Figure 7;** Spearman's $r = –0.01, –0.005, 0.12$, $p > 0.5$).

The relationship between the SCI and HDG was consistent across years as well. When site visits were divided into 2-year segments for 10 years of sampling (1992–2001) and the SCI regressed against the HDG, the 5 regression lines were nearly identical **(Figure 8).** This result indicates that the pattern of association between the SCI and HDG was independent of year.

To verify that the SCI was correlated with the HDG, we used an independent set of 23 sites not used in any of the previous analyses. Correlation was high (Spearman's $r = –0.81$, $p < 0.001$; **Figure 9**). Two sites with > 300 individuals in the samples had somewhat higher SCI values than predicted by the HDG, possibly due to the inflation of taxa richness measures associated with large samples.

Statistical precision of indexes

During the 2004-2006 period, the target number of individuals for laboratory identification for the SCI was 95 to 115. For the metric testing dataset, only 27% of the 629 site visits met this target. Most samples had well over 100 individuals. For these data, 32% of the samples had > 175 individuals, with some samples ranging up to hundreds of individuals. At the other end of the scale, only 36 samples (6%) had fewer than 90 individuals in the entire sample.

When we compared small sample sizes with standard (or large) sample sizes from the same sites, samples with < 75 individuals contributed a disproportionately large amount of variability to the repeat visits **(Figure 10).** SCI values were typically much lower for these small samples. For this reason, we excluded these 17 samples from the analysis of variability, which reduced the number of sites from 62 to 61.

Repeat visits to the same sites were used to evaluate the sources of variability for the SCI and BioRecon. The sources of variance included differences associated with sites, years, visits within years, season (summer versus winter), and laboratory subsampling.

From the ANOVA analysis, the variance associated with sites was greatest (304.9, 71%), the variance associated with year was relatively small (7.7, 2%), and the variance components associated with site x year interaction and error were similar (54.6, 12%, and 66.6, 15%; **Figure 11; Appendix F**). For this model, error was defined as repeat visits within years, about half of which were on the same day.

We used the estimate of error variance from the ANOVA to estimate the 90% confidence limits around the SCI as +/– 13.4 points, or a 27-point spread. Graphic representation of this range around the observed values for repeat visits captured all visits to the least disturbed sites (SCI values > 70), but failed to include all the visits to sites with lower SCI values **(Figure 10).** These sites graphically illustrate the site x year variance, that is, certain site-year combinations that changed in unique ways. The fact that undisturbed sites did not show this pattern, while disturbed sites did, suggests that the SCI was measuring real changes in biological condition, rather than “noise” associated with natural variability. Using the length of the 90% confidence interval (27 points) to divide the range of the SCI (0 to 100) yielded 3.7 categories of biological condition that SCI could reliably detect based on a single site visit.

Variance components calculated for the SCI component metrics showed similar patterns to the SCI. Site differences and site x year variance typically contributed the largest percentages to the overall variance **(Figure 12).** The exception was long-lived taxa richness, which had a large error component (with error defined as variance associated with repeat visits within years, as above). The least variable metrics were Ephemeroptera, clinger and sensitive taxa richness, and % very tolerant. Overall, the SCI was less variable than most of its component metrics.

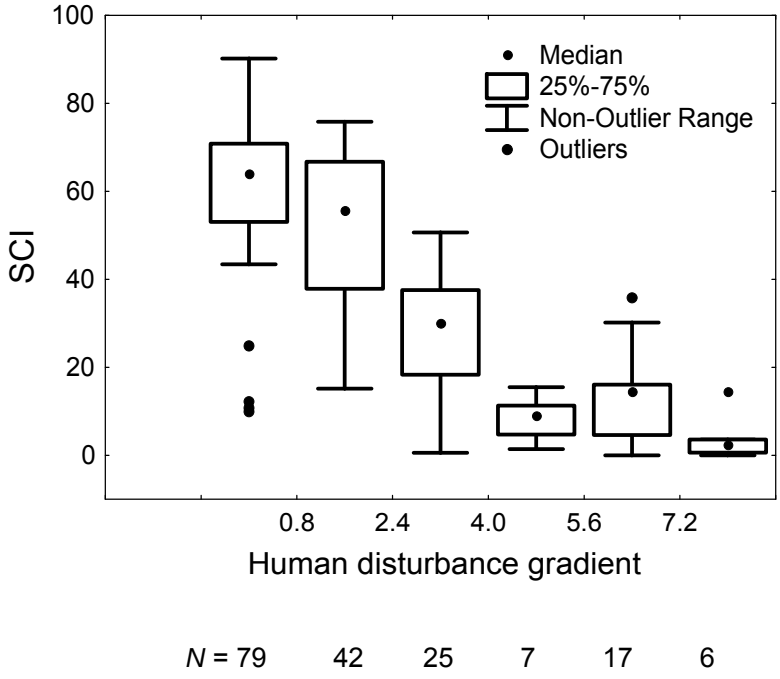

Figure 4. SCI declined as human disturbance increased. Index values were averaged for each of the 176 sites. Only samples with 75-175 individuals are shown. Number of sites in each box are shown (*N*).

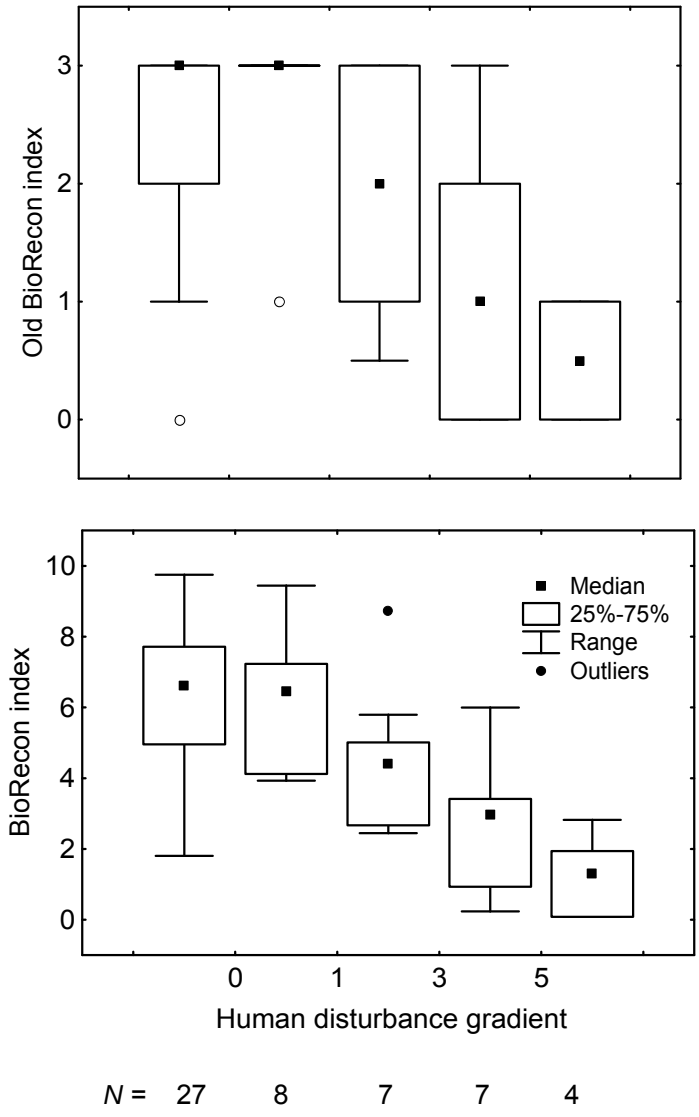

Figure 5. Original BioRecon index based on three metrics (total taxa, EPT taxa, and Florida index; upper panel) and current BioRecon index based on six metrics (lower panel). Both indexes declined as human disturbance increased, but the 6-metric index has a broader range of response to disturbance. Values in boxes are <= value on x-axis.

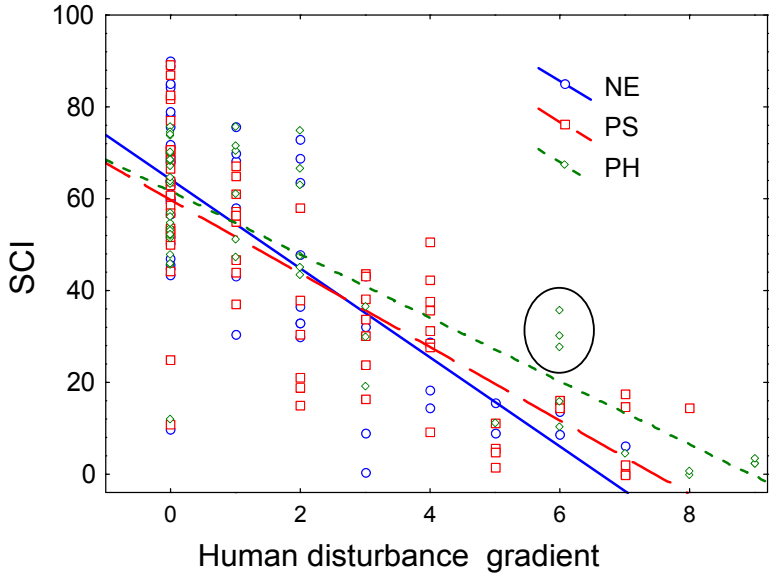

Figure 6. SCI declined as human disturbance increased. Regression lines for the peninsula and northeast had nearly identical slopes indicating a similar index response across the gradient. Three visits to two sites with higher values than predicted (circled) increased the slope for panhandle sites somewhat. Index values were averaged for each of the 176 sites. Only samples with 75-175 individuals are shown and were included in the regression. *N* = 58 (NE), 66 (PS), and 52 (PH).

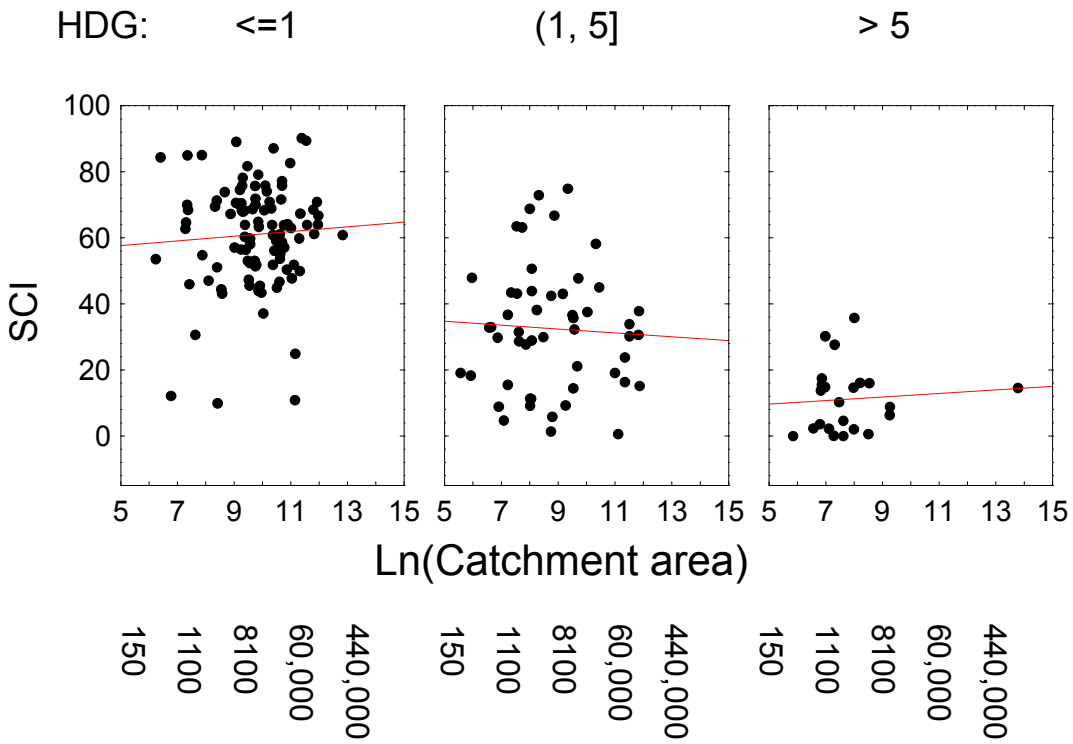

Figure 7. SCI was not significantly associated with watershed size (catchment area) when correlation was tested separately for low, moderate, and high levels of human disturbance (HDG). Highly disturbed sites tended to be small in catchment area and this relationship created a spurious correlation between SCI and catchment size. Shown are average SCI values for 176 sites. Actual catchment area shown below figures (in acres).

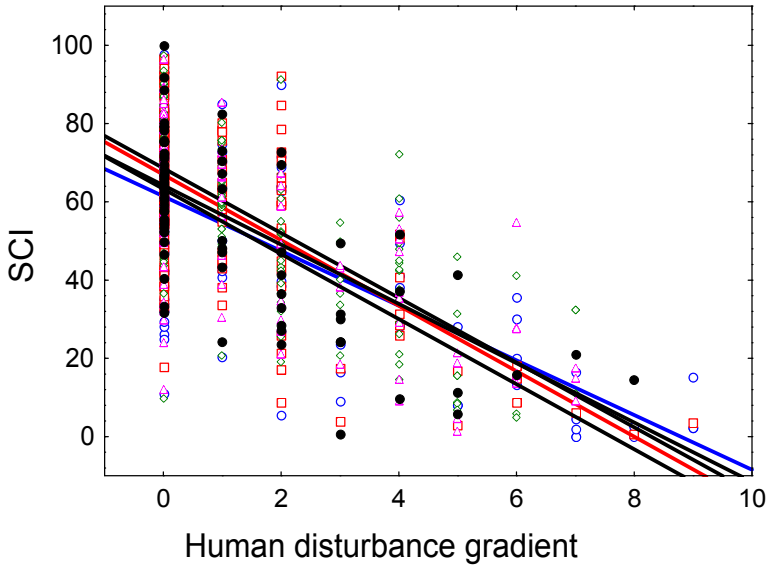

Figure 8. SCI showed a similar response to human disturbance for different years. Shown are five regression lines representing data from 1992-3, 1994-5, 1996-7, 1998-9, and 2000-1. The nearly identical slope lines indicate a consistent relationship between SCI and human disturbance for different time periods.

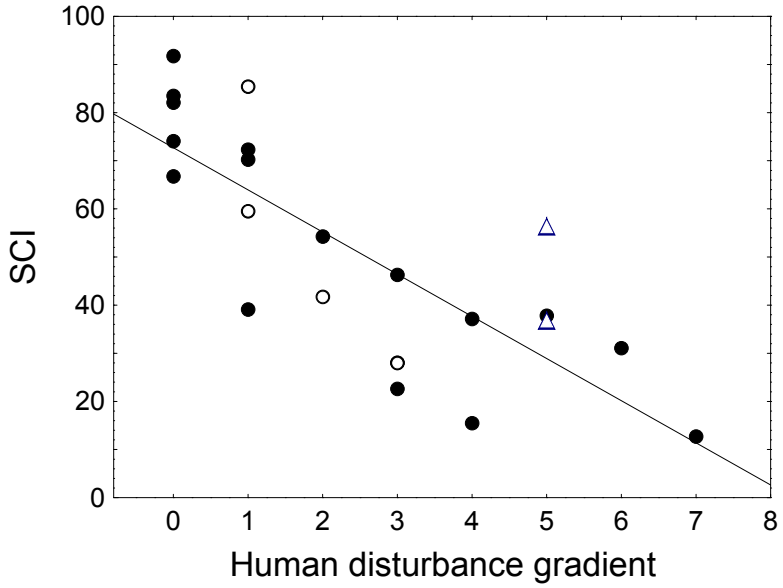

Figure 9. Correlation between SCI and the human disturbance gradient was high for an independent test of 23 sites not included in any previous analyses (Spearman's *r* = -0.81, p<<0.01). Four sites were missing data for NH3 (open circles) and two sites had >300 individuals (open triangles).

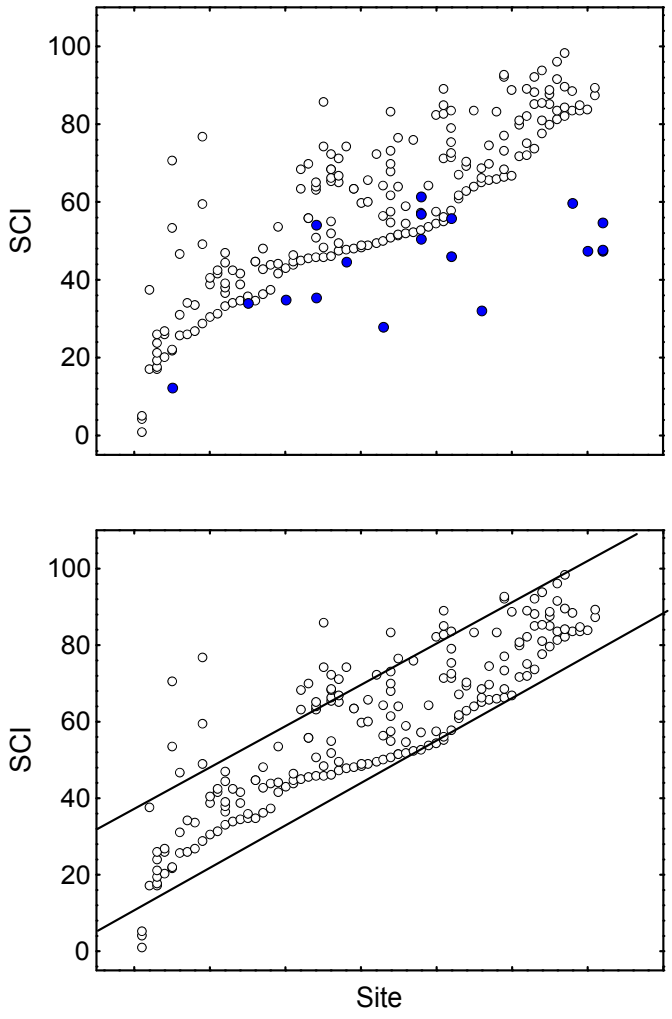

Figure 10. SCI values for repeat visits to 62 sites are shown. Sites were first sorted according to SCI value. Individual site names are not shown, but all SCI values for each site are plotted at a single point on the x-axis. Thus, vertical lines of points represent the range of SCI values at each site. Samples with < 75 individuals are indicated by solid points (upper panel). Lines (lower panel) represent the +/- 15 point confidence interval for the SCI when small samples were eliminated.

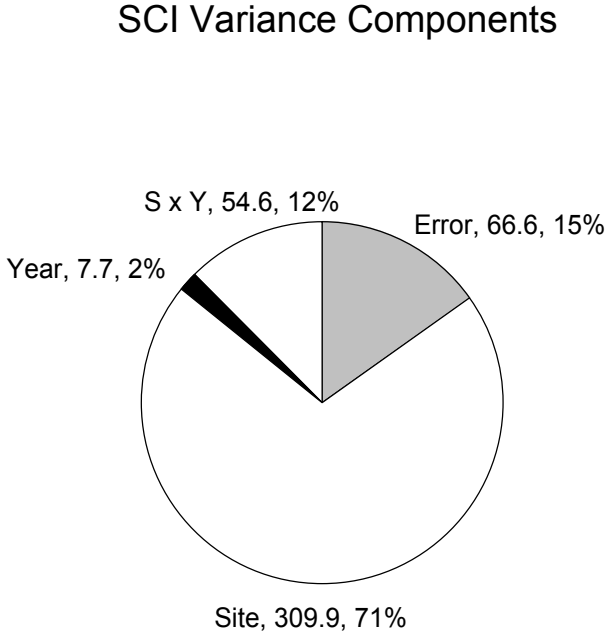

Figure 11. Estimate of variance components and their relative percentage for SCI. The largest percentage of variance was associated with site differences. Replicates collected within a single year (primarily on the same day) accounted for approximately 15% of the total observed variance. Year differences accounted for 4% of the variance. The interaction of site and year accounted for 16% of the total variance.

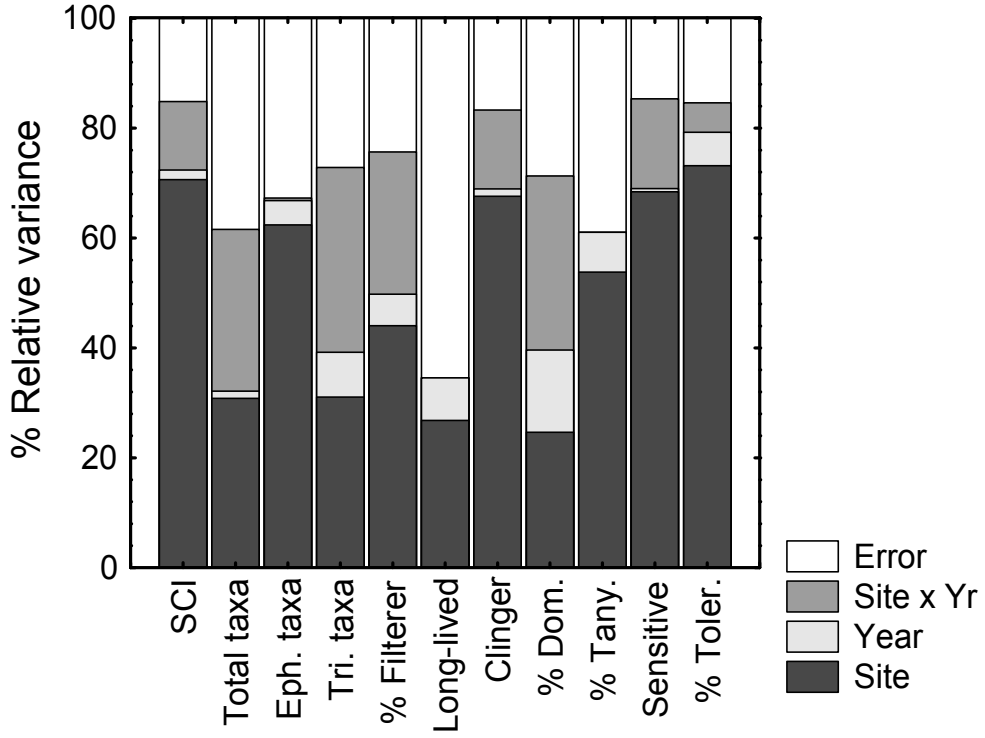

Figure 12. Variance components for SCI and its metrics. For the index and several of the metrics, variance associated with site differences represented the largest component of variance. Error variance associated with repeat visits within years (primarily on the same day) was highest for long-lived taxa richness. The least variable metrics were Ephemeroptera and sensitive taxa richness, and percent very tolerant individuals.

For the seasonal comparison, sites were chosen to represent locations with minimal human disturbance, in order to eliminate this potentially confounding source of variability from the analysis. Unfortunately, over half the SCI values for these site visits were < 70 (the "exceptional" category), indicating the seasonal dataset represented a broad range of conditions. Highly degraded sites (SCI < 20) were not included in the seasonality analysis. SCI values were on average 3.5 points higher in winter than summer (paired *t*-test, $p = 0.049$). The observed difference was greater in the northeast (6.1 points) than the panhandle (1.6 points) or peninsula (3.6 points; **Figure 13**).

Using the same data, we evaluated metrics to determine which were contributing to the seasonal differences in the SCI. Five metrics had values in the winter indicating better biological condition; these were Ephemeroptera taxa richness, % filterers, % Tanytarsini, sensitive taxa richness, and % very tolerant. Long-lived taxa richness had higher values in the summer, the opposite of the SCI. Although significant, most metric differences were rather small compared with the overall range of the metric **(Table 10).** The paired *t*-test is a very powerful test and can detect very small differences because it compares each site with itself. The exception was % Tanytarsini. With a difference of 4.6% compared with a possible range of 0 to 26%, it had the largest relative change from summer to winter. We did not modify metric scoring to correct for seasonal differences, because most metric differences were very small and the difference between SCI summer and winter values was small (3.5%) relative to the site differences through time.

To evaluate the influence of laboratory subsampling on the SCI, we used data that included multiple subsamples from the same site visit. We estimated variance using ANOVA with stream site-visit (n = 59) as a single factor and the 3 subsamples from each visit to estimate the error variance. Error variance for this model was 32.86, which represents about half the error variance calculated above when error was defined as differences associated with repeat visits to the same site (32.86/66.6 * 100 = 49%). In other words, of the variance associated with repeat visits to the same site, about half the variability is due to laboratory subsampling. However, because the variance estimates were from different datasets, the comparison should be cautiously applied. After these variance estimates for this report were completed, laboratory subsampling methods were tested and modified to address this variability. (See results and discussion in **Appendix G**.)

The BioRecon Index was calculated as the sum of the 6 scored metrics; therefore, the sum of the scores ranged from 0 to 6. We transformed the index to a range of 0 to 10 by dividing the sum by 6. The dataset for this ANOVA model was unbalanced, with many site-year combinations missing; therefore, the site x year interaction component of variance could not be estimated. The components of variance were similar to those for the SCI, in that the largest component of variance was associated with site differences and year variance was again small **(Figure 14).** The error variance for this model was 1.46, with error derived from repeat visits to the same sites. A 90% confidence interval for the BioRecon Index yielded a limit of +/- 2, or a length of 4.0 points. Dividing the range of the BioRecon index (0–10) by 4 translated into 2.5 categories of biological condition that the BioRecon could statistically distinguish**.** This result supported the decision to identify three assessment categories for the BioRecon index in a regulatory context (see Chapter 4: *Application of Biomonitoring Tools* below).

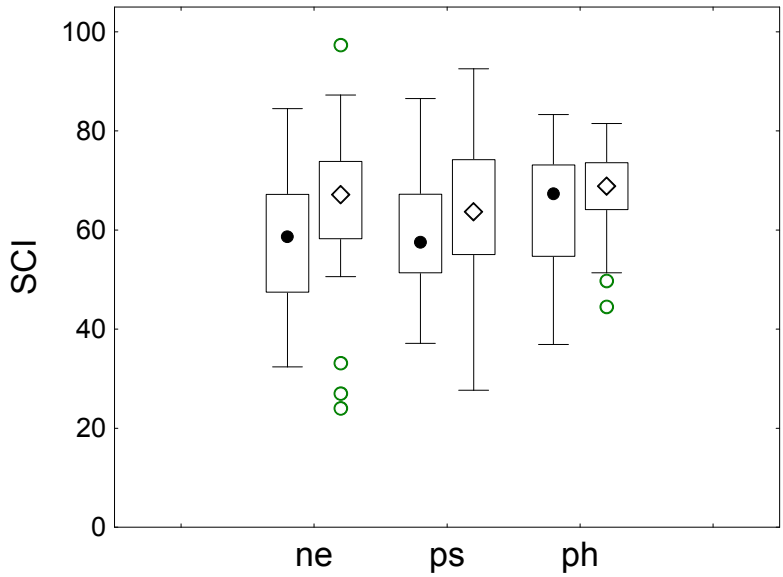

Figure 13. SCI values by region (northeast, peninsula, and panhandle) and season. Summer samples (circles in center of box) tended to be lower than winter samples (diamond centers) in the northeast and peninsula regions. *N* = 23 (NE), 34 (PS) and 31 (PH).

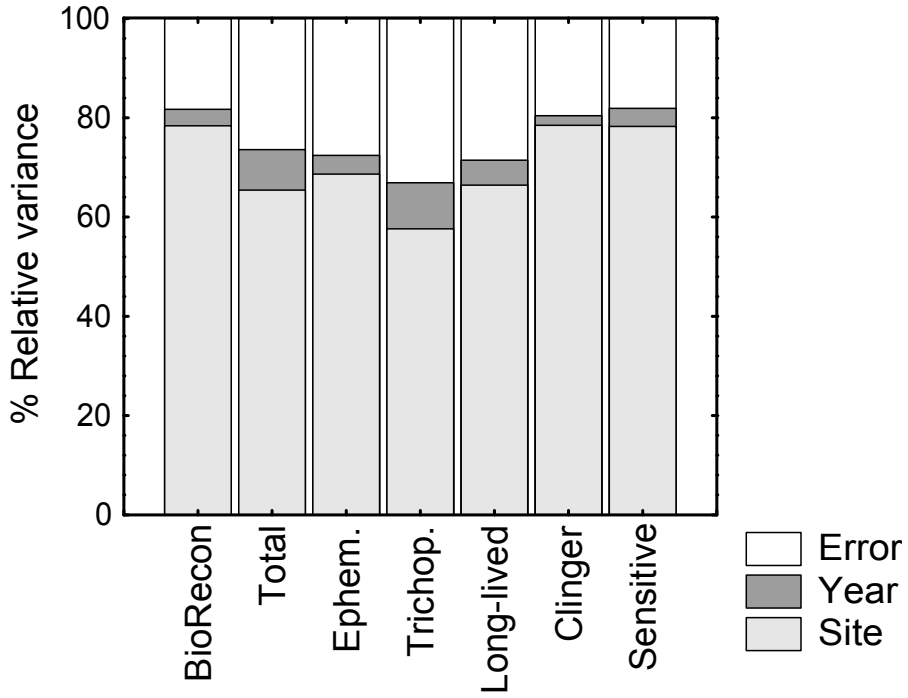

Figure 14. Variance components for BioRecon and its component taxa richness metrics. Variance associated with site differences represented the largest component for metrics and index. Error variance associated with repeat visits within years was similar across metrics ranging from 20-30% of the total. Variability associated with a specific year was relatively small for the index and metrics.

Table 10. Results for seasonal comparison of the SCI and its component metrics

Differences between summer and winter samples (negative value indicates higher winter values). Significant differences noted (p < 0.05, paired t-test).*

Index/metric	Difference
SCI	–3.5 *
Total taxa	0.1
Ephemeroptera taxa	–0.4 *
Trichoptera taxa	0.3
% Filterer	–5.2 *
Long-lived taxa	0.6 *
Clinger taxa	–0.2
% Dominance	–1.9
% Tanytarsini	–4.6 *
Sensitive taxa	–0.9 *
% Very tolerant	2.0 *

These categories for the BioRecon may be somewhat conservative, particularly for sites with good biological condition, because the variability estimated from repeat visits was much higher for moderately disturbed sites than for sites with minimal disturbance **(Figure 15).** If variance were estimated using only minimally disturbed reference sites, the error variance would be smaller. To determine whether high variability was associated with natural variability or changes in human activities, we selected the sites with the most variable BioRecon values through time and asked regional biologists to note any change in human activities at the site **(Table 11).** Four of the sites improved where roads had been paved to eliminate sediment runoff. Other changes were associated with pesticide spraying, the elimination of runoff from a wastewater treatment plant, road closure, and the cessation of fertilization upstream. The results from this anecdotal analysis suggest that much of the BioRecon variability was associated with real changes in human disturbance, rather than natural variability.

Variance results for the BioRecon components metrics were similar to those for the SCI metrics, with site differences contributing the largest component of the total variance **(see Figure 14).** In general, the metric variance due to nuisance sources of variability (year or error) was smaller for three of the BioRecon metrics than for the same SCI metrics. Lower error variance for total taxa, Trichoptera, and long-lived taxa richness suggests that the BioRecon protocol may provide more reliable estimates of these metrics. Direct comparisons of the results from different datasets should be cautiously applied, particularly for relative variance estimates, because they depend on the magnitude of the site differences.

Table 11. STORET site code, region, station nickname, observed change in BioRecon values through time, and possible reason for change

Listed sites represent locations with the highest variability observed for BioRecon values.

STORET	Region	Station	Change	Reason
20010521	Peninsula	JIMREF	Declined	Unknown
20010525	Peninsula	LILHAW@40	Declined	Unknown
20030341	Northeast	CECFLD7	Improved	Unknown
32030024	Panhandle	SFBEARREF	Improved	Intermittent pesticide spraying
33020064	Panhandle	PBRNCSTLR	Improved	Section 319 nonpoint source (NPS) restoration project to pave a road and stop sediment
33020065	Panhandle	BRSTWRKB	Improved	Section 319 NPS restoration project to pave a road and stop sediment
33020067	Panhandle	CNOECPBRNR	Improved	Section 319 NPS restoration project to pave a road and stop sediment
33020082	Panhandle	SANHOLTST	Improved	Section 319 NPS restoration project to pave a road and stop sediment
33030039	Panhandle	TRKLNHDCM	Improved	Partnership with state forest and the Nature Conservancy closed logging road and eliminated sediment
33030102	Panhandle	TURKEYCR	Improved	Summer aerial pesticide spraying
33040016	Panhandle	WILLIAMTST	Improved	Runoff from wastewater treatment plant sprayfield eliminated
33040017	Panhandle	DDFLCWC189	Improved	Ended fertilization upstream of sites in state forest
24030013	Peninsula	HILSTP4REF	Improved	Unknown
22020062	Panhandle	OKLREF	Variable	Unknown
27010050	Peninsula	MOSESUS1	Variable	Unknown
27010583	Peninsula	LITLTOMOKA	Variable	Unknown

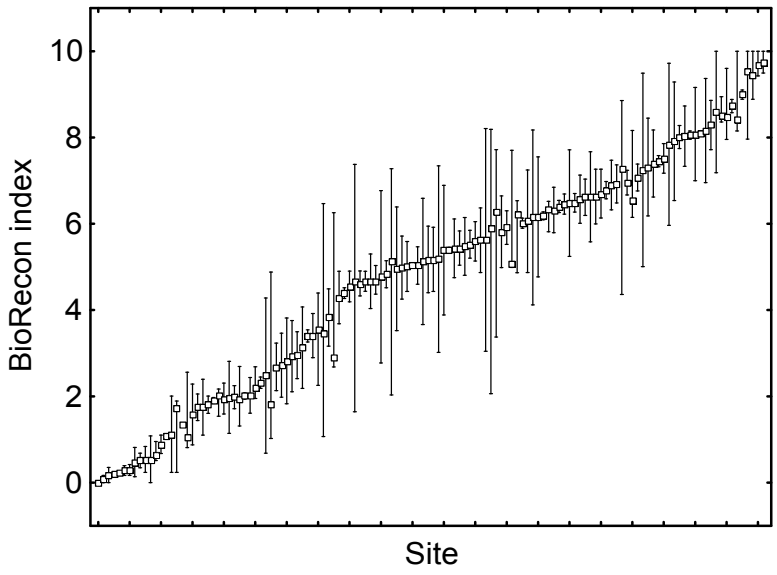

Figure 15. Range of BioRecon index values for repeat visits to 128 sites. Site names are not shown; however, each vertical line represents a single site with the minimum and maximum index values plotted as the endpoints. Note that high and low index values were less variable for repeat visits through time.

CHAPTER 3: DISCUSSION

The SCI and BioRecon Index, along with their component metrics, were developed to assess the biological condition of stream sites using samples from the stream macroinvertebrate assemblage. These assessment tools will be used primarily to define biological criteria for freshwater streams and to evaluate the effectiveness of best management practices (BMPs) (Vowell, 2001). Three results support the use of the SCI for this purpose. First, the component metrics showed a strong and consistent response to an independent measure of human disturbance (HDG). The SCI was also highly correlated with the HDG using an independent dataset for verification. Second, the SCI was independent of watershed size and geographic region. This result means that the SCI can be used across the state to compare stream sites. Third, the influence of seasonal and annual differences on the SCI was relatively small. Index values were about 3.5% higher for winter samples, and about 2% of the total variance of the SCI was associated with year of sampling. Although low, these sources of variance should continue to be evaluated with more complete sampling designs because the influence of both could potentially be eliminated by adjusting index values according to season or year.

Human disturbance gradient

The HDG simplified several aspects of metric and index testing. First, it provided a more stringent test of metric association with disturbance than a comparison of reference versus test sites. Percentage Diptera individuals serves as an example of this. This metric was included in the old SCI because it increased at disturbed sites; however, across a gradient of disturbance, it failed to consistently respond. Second, the HDG was independent of biological condition because no measures of biological condition were included. Therefore, metric expectations could be defined for equivalent levels of disturbance within each region. As a consequence, it was not necessary to correct the multimetric index for regional differences. Third, objective selection criteria based on association with the HDG were used to define individual taxa as sensitive or very tolerant. Finally, the HDG resolved a spurious correlation between watershed size and the SCI. During initial analysis, the SCI appeared to be correlated with watershed size because the most disturbed sites happened to be very small. After controlling for the HDG, the correlation between watershed size and the SCI was eliminated. The HDG can also be used to describe the intensity of disturbance associated with specific biological losses, as measured by the SCI and its component metrics.

Biological indicators

Multimetric indexes strive to integrate measures from a diverse set of biological categories for two reasons. First, monitoring different aspects of the biological assemblage improves the likelihood of detecting changes associated with different types of disturbance. Second, the potential exists to define metric signatures, that is, associations between specific metrics (or suites of metrics) that correspond to specific human activities (Norton et al., 2000; Yoder and DeShon, 2002). Metric signatures are particularly relevant to the TMDL process, which allocates responsibility for degraded stream condition among the various human activities in the watershed (Karr and Yoder, 2004; EPA, 2000).

Though not specific to any particular group, total taxa richness represents a general measure of the biological complexity found at a site. This metric is one of the most widely applied in biomonitoring programs because of its consistent decline with human disturbance for stream invertebrates (Kerans and Karr, 1994; Fore et al., 1996; Karr and Chu, 1999; Klemm et al., 2002), as well as fish (Hughes et al, 1998), terrestrial invertebrates (Kimberling et al., 2001), and birds (Bryce et al., 2002). Ephemeroptera and Trichoptera taxa richness have also been widely applied, though often combined with Plecoptera into a single (EPT) metric. Splitting these taxonomic groups provides the opportunity for metric signatures

associated with different types of disturbance. For example, Ephemeroptera taxa are known to be particularly sensitive to metals and will disappear before other taxa (Clements et al., 2000; Fore, 2002). On the other hand, an increase in Ephemeroptera taxa may indicate increased nutrients (Miltner and Rankin, 1998). Filterers are expected to decline in response to disturbance because of the increase in sediment and silt that can damage or clog nets. Long-lived taxa are expected to decline as human disturbance alters the natural flow regime, because these taxa require water in the channel year-round. Pollution events of short duration may also eliminate these taxa, while other taxa may colonize from unaffected sites.

Clinger taxa have morphological and behavioral adaptations that allow them to cling in fast water. Human development near stream sites in Florida often translates into eroding sand that can smother habitat and eliminate these taxa. Other studies have found these taxa to be sensitive to disturbance associated with mining and urbanization (Fore et al., 2001; Mebane, 2002). Percentage dominance of the most abundant taxon increases with disturbance as the natural taxonomic diversity declines and very tolerant taxa dominate samples. This metric represents a measure of the overall structure of the assemblage and has been associated with disturbance in several regions (Klemm et al., 2002). The Tanytarsini midges are used as indicators by Ohio because of their general sensitivity to human disturbance (DeShon, 1995). Three Tanytarsini midge taxa were also selected for inclusion in the list of sensitive taxa for this study.

Several of the sensitive taxa agreed with Beck's (1954) designations used to calculate the Florida Index; however, a few reversals were noted for taxa that satisfied the criteria for very tolerant. The primary difference between the sensitive taxa list and the Florida Index list was the exclusion of many rare taxa that could not be tested. The list of sensitive taxa is now shorter; nonetheless, the objective criteria used to select these taxa make these metrics easier to justify in a regulatory context.

The set of metrics selected for Florida represents a convergence with similar studies and programs in other states (Karr, 1998). Many of the Florida metrics also had a strong correlation with disturbance in Colorado, Idaho, Washington, Tennessee, and Japan, where they responded to a diverse set of human activities including timber harvest (Fore et al., 1996), recreation (Karr, 1998), urbanization (Fore et al., 2001; Karr and Morishita Rossano, 2001; Morley and Karr, 2002), agriculture (Kerans and Karr, 1994), and mining (Mebane, 2001; Fore, 2002; Mebane, 2002). The emergence of a core set of metrics across a variety of geographic contexts further supports the use of these metrics as biological indicators.

Sources of variance

We evaluated five sources of nuisance variance for the SCI and two for the BioRecon Index. For the SCI, we estimated variance associated with laboratory subsampling, repeat visits within a year (error), different seasons, different years, and site x year interaction. For the BioRecon, we estimated variance due to repeat visits within a year (error) and different years.

One of the largest contributors to the differences observed for the SCI values collected from the same site within the same year was the variability associated with laboratory subsampling. Subsampling represented approximately 49% of the variance due to repeat visits to a site within the same year. Unfortunately, the two variance estimates were derived from different datasets; thus, this percentage should be interpreted with caution. Nonetheless, subsampling in the laboratory seems to be a significant source of variability. Furthermore, the subsampling method for this small study was more carefully controlled than for routine sampling, in that the target of 100 individuals per sample that was in use at the time of this study was more frequently attained. Thus, the subsampling analysis did not include any additional variability associated with variable sample sizes; consequently, variance due to subsampling may actually be higher for routine samples. (See **Appendix G** for analysis and changes made to the subsampling protocol after the evaluation of sources of variance was completed for this document.)

Site by year interaction represents the variability associated with some unique site-year combinations. This source of variance represented index values from sites that increased (or decreased) from one year to the next in a different or more extreme manner than did other sites during those same years. The differences could be due to natural variability, e.g., the effect of a dry year on some sites but not others, or actual changes in biological condition associated with human influence. These two sources could not be distinguished using the current data, because all sources of human disturbance were not quantified. For example, agriculture is a dominant land use in Florida. Pesticide treatments represent a potentially significant impact to stream invertebrates but could not be evaluated for this study. Nonetheless, the higher variability in both the SCI and BioRecon Index values observed for sites with moderate index values compared with sites with high index values suggests that both indexes may be measuring real changes associated with human land use, rather than nuisance variance. Other studies have found a similar pattern of increased variance associated with greater human disturbance (Karr et al., 1987; Steedman, 1988). For the BioRecon Index, variability for several sites was explained by changes in human land use. Road paving to eliminate erosion, the elimination of toxic runoff, and the discontinuation of fertilization were all associated with improved BioRecon values.

For the SCI, winter index values were significantly higher than summer values collected from the same sites; however, the difference was small (3.5%). We did not adjust metric scores to eliminate the seasonal difference in the SCI because individual metric differences were relatively small and the differences in SCI values was due to a cumulative effect across several metrics. The seasonal difference was also relatively small compared with the variance due to other sources, such as repeat visits within a year or laboratory subsampling. The influence of seasonality awaits a better dataset that compares index values by season for sites with little or no change in human disturbance.

For the BioRecon Index, the variance associated with repeat visits within years was somewhat higher than the variance observed for the SCI. This is largely because the site x year interaction term could not be estimated (due to incomplete data), and this variance was included in the error term. In addition, the BioRecon data included mostly samples from different days within the year, rather than the predominantly same-day samples used for the SCI. As a consequence, the variance estimate for the BioRecon Index may be somewhat high and the precision of the index underestimated.

The higher variability noted for the BioRecon may be due to human disturbance at the site, different levels of sampling effort applied by field biologists, the smaller number of metrics in the index (6 for the BioRecon versus 10 for the SCI), or some combination. In the field, biologists examine the sample until all unique taxa have been identified. They also bring back examples of each taxon for laboratory verification. Biologists may vary both in the amount of time they spend searching for unique taxa and in the number of taxa returned to the lab. The protocol specifies that a minimum of 5 examples of each unique taxon be returned for verification. If multiple examples of each taxon are returned, the probability of identifying additional taxa increases as a function of the number of individuals returned. This is because many field identifications can only be made to the genus level, while in the lab more taxa can be identified to the species level. The precision of this index could likely be improved by applying the same level of effort to each sample in the field. In addition, the number of individuals returned to the laboratory for verification should be made consistent for each sample. (Note: these issues have been addressed in the current version of the BioRecon SOP.)

CHAPTER 4: APPLICATION OF BIOMONITORING TOOLS

This section takes the results from the previous chapters and describes how the biological monitoring tools can be integrated into a regulatory framework for managing streams under the Clean Water Act. States are required to report to Congress the water bodies that are failing to support their designated uses. FDEP intends to use biological criteria along with physical and chemical criteria to determine whether stream sites are meeting their designated uses, particularly uses related to aquatic life use support. In this section the regulatory framework of the Clean Water Act is summarized; an approach for defining more specific designated uses for aquatic life use is described; and biological criteria based on the SCI and BioRecon Index are proposed.

Two approaches were used to define categories of biological condition. The primary approach involved the U.S. EPA's Biological Condition Gradient, which we used as a framework for defining biological standards in a regulatory context (EPA, 2005; Davies and Jackson, 2006). A secondary, but parallel approach, adopted by many states, defines biological standards based on measurements, such as SCI, collected from a set of reference sites (EPA, 2006a, 2006b). We examined the reference site data and the variability associated with the SCI determination as a secondary line of evidence to support the impairment threshold decision. Additionally, the reference site data was used as the primary basis for proposing the biological criteria threshold for sites that may be considered of "exceptional" quality.

Regulatory framework

The regulatory context for the management of surface waters is derived from the mandates of the Clean Water Act (CWA; EPA, 2005; Davies and Jackson, 2006). Within this framework, states and tribes must adopt water quality standards to protect their waters. Water quality standards (WQS) include three parts: 1) designated uses, 2) numeric and narrative criteria that protect the uses, and 3) antidegradation policies to prevent deterioration of high-quality waters (EPA, 2006a). The CWA authorizes the U.S. EPA to determine appropriate minimum levels of protection and provide national oversight to state programs; however, considerable flexibility and discretion are left to states and tribes to design their own programs and establish levels of protection beyond the national minimums (EPA, 2005). WQS are part of state law and define the water quality goals for a water body by designating the use(s) and setting criteria necessary to protect the use(s).

Thus, individual state WQS provide the foundation for the management and protection of surface waters and pollution control programs. WQS provide the basis for determining attainment or nonattainment of water bodies in order to identify impaired waters and prioritize water bodies for TMDL (Total Maximum Daily Load) establishment. Historically, states and tribes have taken different approaches to defining their WQS. Different approaches are acceptable to EPA as long as a minimum standard is protected. In other words, states are encouraged to be more protective than the national minimum. Once WQS are in place, states are authorized to implement monitoring programs that allow them to report on the attainment of those standards and to identify and prioritize waters not attaining standards.

Designated uses

All of the water quality protections available under the CWA follow from the water body's designated use. All state water bodies have designated uses as specified in water quality standards, whether or not the uses are currently being attained. When classifying water bodies and determining designated uses, a state must take into consideration public water supplies, protection and propagation of fish, shellfish, and wildlife, recreation in and on the water, and agricultural, industrial, and other purposes, including navigation. The language of the CWA includes a general mandate for protecting waters for

fishing and swimming and the protection and propagation of aquatic life. States differ in their approaches to defining designated uses under this general mandate for the protection of aquatic life.

Some states designate a general "aquatic life use" or have narrative biological criteria, which is often a general statement such as "aquatic life communities shall be maintained similar to aquatic life as naturally occurs". Florida's current description for Class III waters provides an example of this approach: "recreation and propagation and maintenance of a healthy, well-balanced population of fish and wildlife". For states with a general narrative biological criterion, single thresholds are typically set based on a multimetric index of biological integrity, with expectations determined according to regional reference conditions (U.S. EPA, 2006a; Stoddard et al., 2006). Water bodies are then assessed to determine whether they support or fail to support a single general use for aquatic life.

Currently in Florida, FDEP has convened a Designated Uses Policy Advisory Committee (DUPAC) to explore an alternative system of designated use classification for Florida. The DUPAC is considering the environmental, social, and economic consequences of use designation, and includes the interested public, the regulated community, water quality managers, and scientists. The scheme currently proposed through the DUPAC involves the separation of human and aquatic life uses and recommends a tiered system of aquatic life uses.

To be consistent with the anticipated direction of the FDEP DUPAC, this chapter proposes three categories for the SCI. Subject to future rule making decisions, those three categories may be conceptually interpreted as "exceptional" (Category 1), "healthy" (Category 2), and "impaired" (Category 3). In this way, exceptional stream resources are identified to support the intent of the anti-degradation component of the water quality standards (see below). Additionally, the "impaired" category supports decisions needed by other regulatory programs, such as the TMDL program.

Water quality criteria

Water quality criteria should be closely tied to a specific designated use and should provide a meaningful assessment of whether the use is supported. The assumption is that when criteria are met, the designated use is protected. Water quality criteria may be either narrative statements that describe the conditions needed for a water body to achieve its designated use, or numeric levels of pollutants or chemicals that should not be exceeded so as to protect the designated use. While all States have adopted *narrative* criteria for the protection of aquatic life, only some have adopted *numeric* criteria such as constituent concentration levels for various pollutants or specific biological index values. Biocriteria refer specifically to criteria based on biological aspects of the water body, typically measures of fish, macroinvertebrates, plants or algae.

Anti-degradation policy

This component of the WQS has traditionally received less attention than the other two components. An anti-degradation policy is required to ensure 1) water quality is sufficient to support existing uses; 2) where water quality is better than that needed to support aquatic life uses, that level of quality must be protected unless a public process determines that quality can be lowered to allow economic or social development; and 3) the water quality of water bodies with exceptional recreational or ecological significance must be maintained and protected (EPA, 1985). Thus, states are required to provide a framework for managing water bodies when their water quality changes. It is anticipated the DUPAC will establish an anti-degradation policy to continue to maintain the water quality and biological health of exceptional water bodies.

Tiered aquatic life uses

In 2001, the National Research Council published a report on *Assessing the TMDL Approach to Water Quality Management* in which the authors recommended *tiering* designated uses for improving the decision-making related to setting water quality standards (NRC, 2001). The NRC found the CWA's goals to be too broad to provide the operational definition of designated uses needed to support aquatic life, and recommended greater specificity in defining aquatic life uses. For example, rather than stating that a water body needs to be "fishable," the designated use should specifically describe the expected fish assemblage (e.g., cold water fishery, warm water fishery, or salmon, trout, bass, etc.). *Tiered aquatic life uses* (TALUs) are bioassessment-based statements of expected biological condition in specific water bodies that allow more precise and measurable definitions of *designated aquatic life uses* (EPA, 2005).

Designated uses are written in qualitative, narrative terms; therefore, the challenge is to relate a water quality criterion to the designated use. Establishing this relationship is more straightforward when the water quality measure, or criterion, is closely and meaningfully related to the designated use. For this reason, the NRC recommended the use of biological information to define more appropriate aquatic life uses. The TALU approach provides an interpretative framework for developing a technical program that will tighten the linkage between narrative use statements and numeric biological criteria.

Designated aquatic life uses represent a state's biological goals for their water bodies. Tiered aquatic life uses rely on biological information to more precisely define these goals relative to natural conditions. Bioassessments can then be used to measure attainment of the goals (EPA, 2005). Thus, the TALU approach is designed to support the implementation of biocriteria, and the scientific knowledge of aquatic ecology that they represent, into state and tribal water quality standards. The driving motivation here is to ensure that listings of impaired waters are scientifically defensible and to identify and protect high quality water resources.

Determining the impairment threshold using the Biological Condition Gradient model

The objective of the Clean Water Act is to "restore and maintain the physical, chemical and biological integrity of the Nation's waters." To achieve this, a consistent, uniform interpretation of biological condition must be applied to data derived from any assessment methodology (Davies and Jackson, 2006). This interpretive framework must define ecological condition, allow for variability exhibited in the reference condition, and take into account the designated use of a given waterbody. The U.S. EPA has outlined a tiered system of aquatic life use designation, along a Biological Condition Gradient (BCG), that illustrates how ecological attributes change in response to increasing levels of human disturbance. The BCG is a conceptual model that assigns the relative health of aquatic communities into one of six categories. The BCG is based on fundamental ecological principles and has been extensively tested and verified by aquatic biologists throughout the U.S.

The BCG utilizes ten biological attributes of aquatic systems which respond predictably to increasing pollution and human disturbance. While these ten attributes are measurable, some are not routinely quantified in monitoring programs (e.g., rate measurements such as productivity), but may be inferred via the community composition data (e.g., abundance of taxa indicative of organic enrichment). The attributes are:

I. Historically documented, sensitive, long-lived or regionally endemic taxa
II. Sensitive and rare taxa
III. Sensitive but ubiquitous taxa
IV. Taxa of intermediate tolerance

V. Tolerant taxa
VI. Non-native taxa
VII. Organism condition
VIII. Ecosystem functions
IX. Spatial and temporal extent of detrimental effects
X. Ecosystem connectance.

The gradient represented by the BCG is divided into six levels (tiers) of condition that were defined during a series of national workshops with experienced aquatic biologists from across the U.S. (Davies and Jackson, 2006). The six tiers are described as:

1. Natural or native condition
2. Minimal changes in structure of the biotic community and minimal changes in ecosystem function
3. Evident changes in structure of the biotic community and minimal changes in ecosystem function
4. Moderate changes in structure of the biotic community with minimal changes in ecosystem function
5. Major changes in structure of the biotic community and moderate changes in ecosystem function
6. Severe changes in structure of the biotic community and major loss of ecosystem function.

Davies and Jackson (2006) recommend that regional biological experts adapt the conceptual tiers described by the BCG to local conditions using data from a regional monitoring program. The tiers can then be used in assessment and biocriteria. To develop a BCG for Florida streams, a panel of 22 experienced aquatic biologists were convened as part of a workshop. Participants were asked to apply and calibrate the general BCG model to stream data collected from Florida streams **(Table 12; Appendix H)**. Results from the workshop were used to define biological thresholds for the SCI.

The panel of experts was provided with macroinvertebrate taxonomic lists and biological metrics for 15 reference stream sites and 30 test samples, equally divided into Florida's three bioregions (Panhandle, Northeast, and Peninsula). Data collection and metric calculation followed standard FDEP protocols. The panel was NOT given the SCI value associated with any of these sites, or any physical, chemical, or habitat descriptions of the sites (other than the Bioregion location). Detailed descriptions of the BCG attributes and tiers were provided to the panel prior to the meeting. On the day of the meeting, a presentation reiterated these definitions, accompanied by extensive discussion (Frydenborg and Miller, 2007).

The panel of 22 Florida scientists assigned the 30 test samples to BCG Tiers 1 through 6, generating a total of 660 individual sample assessments. After discussion, there was general agreement that it was difficult to identify Tier 1 sites (pristine, natural condition). This was primarily due to inadequate information in the data sets to properly characterize BCG Attribute 1, "*Historically documented, sensitive, long-lived or regionally endemic taxa."* The 20 dip net sweep sampling method, along with the laboratory sub-sampling procedure, do not result in a complete biological census of any given site. This lack of data on rare, endemic taxa made it difficult for the group to judge a "pristine" condition. Even given this constraint, there were approximately twenty instances where panelists assigned a score of Tier 1 to a sample, although none of the samples was unanimously assigned to Tier 1 by all 22 experts. However, there was complete agreement among the panelists that Tier 2 represented the minimally disturbed reference condition, which was considered, for practical purposes, to be almost indistinguishable from "natural."

Table 12. BCG Workshop Participants

Name of regional expert, affiliation, and years of experience in benthic macroinvertebrate identification,

Expert name		Affiliation	Years
Jerrell	Daigle	DSA, Inc.	>20
Dana	Denson	FDEP Central District	10-15
Doug	Durbin	Biological Research Associates	>20
John	Epler	John Epler Consulting	>20
Julie	Espy	FDEP Tallahassee	5-10
David	Evans	Water and Air Research	>20
Michael	Heyn	FDEP Tallahassee	>20
Joy	Jackson	FDEP Tallahassee	10-15
Deron	Lawrence	Biological Research Associates	10-15
Laura	Line	Water and Air Research	10-15
Rob	Mattson	St. Johns River Water Management District	>20
Peggy	Morgan	FDEP Southwest District	>20
Patrick	O'Connor	FDEP Northeast District	>20
Manuel	Pescador	Florida Agricultural and Mechanical University	>20
Marianne	Pluchino	Reedy Creek Improvement District	>20
Eric	Pluchino	FDEP Orlando District	>20
Donald	Ray	FDEP Northwest District	>20
Johnny	Richardson	Leon County	10-15
Gitta	Schmitt	FDEP Southwest District	5-10
Mary	Szafraniec	Southwest Florida Water Management District	5-10
Albert	Walton	FDEP South District	>20
Gary	Warren	Florida Fish and Wildlife Commission	>20

During the workshop, the 22 panelists BCG scores were tabulated for each test sample and the panel discussed the results. In all cases, the majority of panelists' scores were assigned to the same tier, with a small number of the adjacent tiers represented. After discussion on specifics associated with the data set, the panelists were given the opportunity to modify their score.

During the national workshops sponsored by EPA, different groups of experts independently concurred that the ecological characteristics described by Tiers 1–4 corresponded to how they interpret the Clean Water Act (CWA)'s interim goal for protection and propagation of aquatic life. They further identified Tiers 1 and 2 as indicative of biological integrity (U.S. EPA, 2005). Subsequent to these national workshops, several states have adopted a line of impairment near the threshold between Tiers 4 and 5 (U.S. EPA, 2006b). The Florida panel of experts was similarly asked to offer their opinion as to where along the 6 tiered rankings they believed the interim goal of the Clean Water Act (CWA) was met. In other words, sites below a selected tier threshold would be considered "impaired." There was unanimous agreement that Tier 2 represented reference conditions, and that Tier 3 clearly met the CWA interim goal for biological integrity. There was also unanimous agreement that Tier 5 did not meet the CWA biological integrity goal. Approximately half the group thought the impairment threshold occurred between Tiers 4 and 5. The other half of the Florida experts proposed the impairment line to be drawn between Tiers 3 and 4. Those panelists expressed a concern that management action may not be taken on sites until they were considered "impaired." In other words, those panelists wanted the impairment line to include a buffer to allow more time for management action to prevent sites from becoming impaired. Taking the

recommendations of all 22 experts, we calculated the mid-point to define the line of impairment to be below Tier 4.

From this definition for the line of impairment, BCG scores were related to SCI values to determine a corresponding numeric criterion for the support of aquatic life use. Two statistical approaches were used: linear regression and change point analysis. Using linear regression, we found that an SCI value of 34 corresponded to a BCG score of 4 **(Figure 16)**. Based on this analysis, the impairment threshold could be set at an SCI value < 34. Step function regression, also known as change point analysis, identified a significant difference (change or break point) corresponding to an SCI score of 36 (**Figure 17; Appendix I;** Niu and Miller, 2007). Based on this analysis, the impairment threshold could be set at an SCI value < 36. Thus, the two different statistical methods yielded very similar results. We averaged the SCI values derived from the two approaches to define the line of impairment to occur at SCI < 35. Using results from the BCG approach and the recommendations of 22 regional experts, SCI values from 0-34 are proposed as Category 3 (provisionally interpreted as "impaired"). SCI scores >= 35 represent Categories 2 and 1 (provisionally interpreted as "healthy" and "exceptional"; see below).

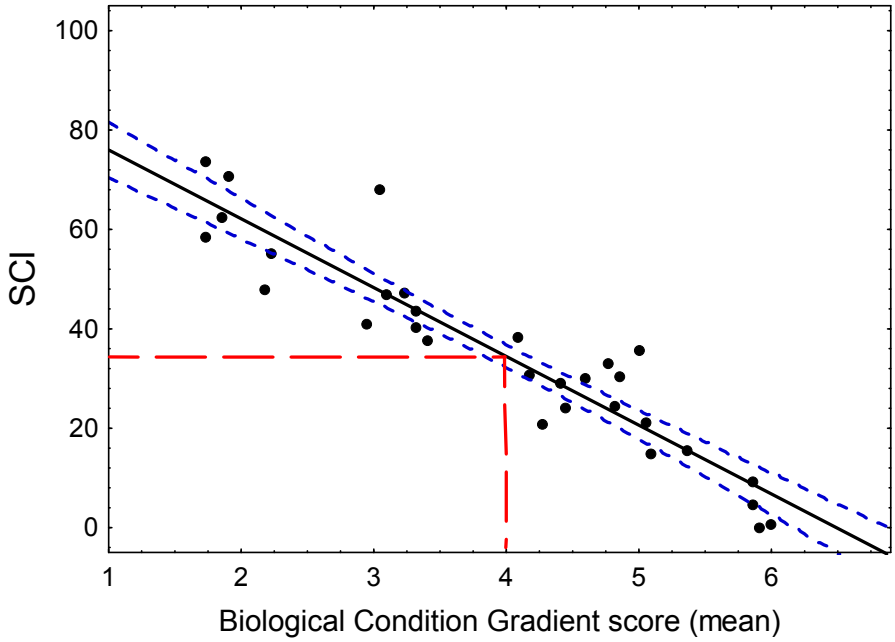

Figure 16. SCI values were highly correlated with the BCG scores assigned by the experts. Shown are the regression line (solid black) and its 90% confidence intervals (dashed blue lines). Red dashed lines indicate the SCI threshold value of 34.4 based on a BCG score of 4 as the line below which biological impairment was defined.

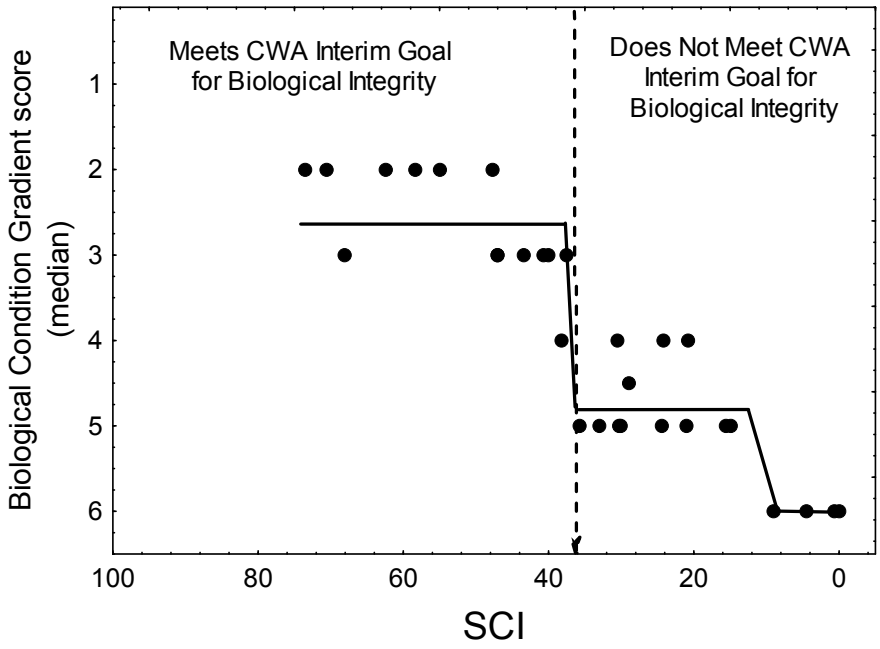

Figure 17. Change point model showing the relationship between the median BCG scores for each test sample and the corresponding SCI scores (change points = 35.8 and 9.1, alpha < 0.05).

Defining biocriteria using reference site condition

Another U.S. EPA-recommended approach for setting the standard for biological condition involves analyzing reference sites. Reference sites may be defined as those with minimal human disturbance, approximating the "natural" condition of a region (U.S. EPA, 2006a, b; Hughes, 1995 Stoddard et al. 2006). From a set of reference sites, measures of site condition, such as a multimetric index of biological condition, can be used to define thresholds for acceptable and unacceptable biological condition.

Lower percentiles, e.g., the 10th or 25th percentile, of the distribution of biological index values observed in reference sites are used by many states to define biological criteria. The selection of the specific percentile depends on the relative confidence associated with the initial selection of reference sites.

Defining the limit of reference condition using a subset of reference sites recognizes that natural stressors can affect the biology of a stream, introducing variability into the reference site data distribution. In Florida, natural drought will cause dry or stagnant flow conditions, which may be associated with lower SCI values. Substrate diversity at some reference sites may be naturally limiting, which also may reduce SCI values. For Florida streams, our confidence was high that reference sites truly represented reference condition; therefore, we selected the 10th (rather than the 25th) percentile.

Reference site selection

To develop the HDG, FDEP biologists selected sites from each of their regions that represented the broadest possible range of human influence, including sites that represented the very best or minimally disturbed sites in their regions. In the early years of FDEP's bioassessment program, every effort was made to identify the best examples of reference sites in the state. Over time, program

emphasis has shifted to other sampling needs, including status and trend monitoring, TMDL assessment, and springs studies **(Figure 18)**. Due to the extensive experience and knowledge of DEP regional biologists, most of the minimally disturbed stream sites have already been identified and sampled. In contrast, other states that started their biological monitoring programs later may have identified their reference sites from a probabilistic sampling design. The criteria for selecting reference sites may be the same for both data sets, but the results may differ. Specifically, hand-picked reference sites in Florida may represent the very best sites available while other sites meeting the criteria for reference sites may have lower SCI values due to natural variability or minimal human disturbance.

Reference sites were initially selected as sites with HDG = 0. Recall that HDG = 0 does not mean *no* human disturbance, but minimal human disturbance. The criteria for HDG = 0 were:

- NH_3 < 0.1 mg/L
- Habitat Assessment Index > 65% of total points (scored from 0–100% of total points)
- Hydrological index < 6 (scored from 0–10), and
- LDI < 2.

Sites meeting these initial conditions were further scrutinized to eliminate sites potentially influenced by human activities not captured by the HDG. Additional criteria applied to reference sites included:

- Habitat Assessment Index > 75% of total points
- Site average conductivity < 600 umhos/cm
- No receiving sites for NPDES-permitted wastewater treatment facility discharges, based on a review of GIS coverage information from the Water Facilities Regulation (WAFR) database, and
- The number of individuals identified ranged from 100-175 (inclusive).

These criteria were established to select the very best reference sites from among sites with a HDG score of 0. The habitat assessment index criterion was raised from 65% to 75% because sites scoring 75% or greater were equivalent to all or most of the habitat assessment parameters scoring as “Optimal” or “Suboptimal” (FDEP, 2004). The < 600 umhos/cm criterion for conductivity was based on results uncovered while evaluating a revision of the Class III freshwater specific conductance criterion (Chapter 62-302.530(61) F.A.C.) This study found that for a specific conductance of 20 umhos/cm approximately half of the taxa within a SCI sample would be sensitive taxa and for 600 umhos/cm the proportion of sensitive taxa decreased to almost none (FDEP, 2005). For the third criterion, sites could not be located below an active facility discharge based on review of GIS coverages and information from district biologists. A lower limit of 100 individuals was set as the minimum sample size for reference sites in order to be consistent with other state monitoring programs. This minimum of 100 individuals is consistent with a target of 100 organisms used by a majority of other state agencies (54% of 43 state programs surveyed; Carter and Resh, 2001). These criteria were established for selection of reference sites only; the application of the SCI is not limited to sites or samples conforming to these reference site criteria.

Based on these criteria, 64 reference sites with a total of 205 site-visits were selected **(Appendix J).** For the 64 vetted reference sites, statistics were calculated from the distribution of reference site SCI values based on the median SCI value observed for each site. SCI values for reference sites ranged from 43.4–92.6 representing the natural variability associated with the SCI at sites with minimal human disturbance **(Table 13)**. The lower 10^{th} percentile SCI value for the reference site distribution was 48.8.

Note that the 10^{th} percentile could have been derived in more than one way from the reference site scores. When we calculated these alternate statistics they provided very similar SCI values. Examples include the 10^{th} percentile of SCI for all site-visits (44.9, N = 205); the 10^{th} percentile for

reference site mean values (SCI = 50.5, N = 64); the 10th percentile for the most recent site-visit (SCI = 50.2, N = 64).

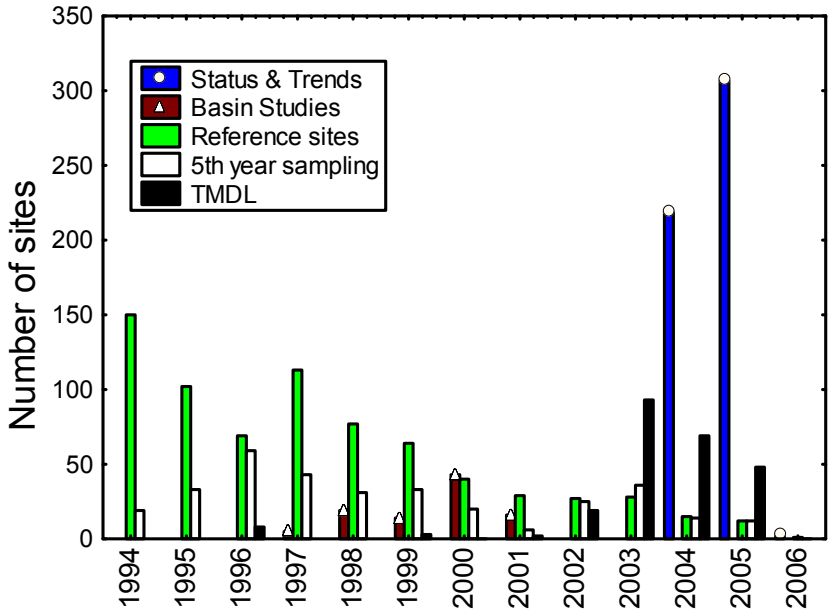

Figure 18. Number of stream sites sampled for SCI by year and program.

Table 13. Statistics and percentile values for the SCI reference sites.

Statistics and values for the distribution of SCI values at reference sites (N = 64).

Statistic	Value
N	64
Minimum	43.4
10th percentile	48.8
25th percentile	56.7
Median	67.3
Average	66.3
Standard Deviation	12.6
75th percentile	75.2
90th percentile	84.0
Maximum	92.6

Matching the approach of other states (EPA, 2006b), we defined a buffer of SCI values below the 10th percentile to represent the natural variability associated with field sampling that could be due to water level fluctuation, weather, or microhabitat differences. We used the MDD (calculated above in Chapter 2: *Statistical Precision of Indexes*) to estimate the variability in SCI associated with repeat sampling of the same stream site. Specifically, we subtracted half the MDD interval from the 10th percentile to obtain a

lower limit of reference value of SCI = 35 (48.8 – 13.4 = 35.4). Thus, an SCI value of 35 represented the lowest SCI value we expect to obtain from a reference site.

Distinguishing between Category 1 and 2

We used SCI values observed at reference sites to propose a threshold between Category 1 ("exceptional") and Category 2 ("healthy"). The upper 90th percentile of SCI values for the 64 reference sites was selected to represent exceptional sites (SCI score of 84.0). As for the impairment threshold definition above, we defined a buffer below the 90th percentile using half the MDD interval (13.4) to yield an SCI value of 71 as the limit of Category 1 (84.0 – 13.4 = 70.6). The MDD interval provides a buffer around the point estimate of the lowest SCI value representing exceptional reference condition.

As above, we note that the 90th percentile could have been derived in more than one way from the reference sites. And, again as above, when we calculated these alternate statistics they provided very similar SCI values. Examples include the 90th percentile of SCI for all site-visits (86.7, N = 205); the 90th percentile for reference site mean values (SCI = 83.8, N = 64); the 90th percentile for the most recent site-visit (SCI = 83.9, N = 64).

Biocriteria for streams

The above analyses support the establishment of three categories of aquatic life use for Florida streams, described as Category 1 ("exceptional", with SCI = 71–100), Category 2 ("healthy", with SCI = 35–70), and Category 3 ("impaired", with SCI = 0–34). **Table 14** provides a narrative description for the numeric ranges of SCI**.**

The threshold values for the SCI were also used to define biocriteria for the BioRecon Index. Data were collected using both protocols at 112 sites. A linear regression equation was used to equate threshold values of SCI to corresponding values of the BioRecon Index. This analysis was used to define Category 1 ("exceptional", with BioRecon = 6.5–10), Category 2 ("healthy", with BioRecon = 3.1–6.4), and Category 3 ("impaired", with BioRecon = 0–3.0) stream condition.

To have confidence in the final stream assessment for regulatory decisions, two separate, temporally independent site-visits resulting in a Category 3 evaluation are required to list a stream site as failing to support aquatic life use.

Table 14. Proposed aquatic life use categories, corresponding SCI values, and descriptions of biological conditions typically found for that category

Narrative metric descriptions were not used to score metrics; rather, they describe values associated with a range of SCI values.

Aquatic life use category	SCI Range	Description
Category 1	71–100	Higher diversity of taxa than for Category 2, particularly for Ephemeroptera and Trichoptera; several more clinger and sensitive taxa than found in Category 2; high proportion for Tanytarsini; few individuals in the dominant taxon; very tolerant individuals make up a very small percentage of the assemblage
Category 2	35–70	Diverse assemblage with 30 different species found on average; several different taxa each of Ephemeroptera, Trichoptera, and long-lived and, on average, 5 unique clinger and 6 sensitive taxa routinely found; small increase in dominance by a single taxon relative to Category 1; very tolerant taxa represent a small percentage of individuals, but noticeably increased from Category 1
Category 3	0–34	Notable loss of taxonomic diversity; Ephemeroptera, Trichoptera, long-lived, clinger, and sensitive taxa uncommon or rare; half the number of filterers than expected; assemblage dominated by a tolerant taxon; very tolerant individuals represent a large proportion of the individuals collected

CHAPTER 5: CONCLUSIONS

The correlation between biological metrics and the independently derived human disturbance gradient (HDG) provided strong evidence in support of the relationship between human influence and biological condition. The high correlation between the SCI and HDG was verified using an independent set of data. In addition, the pattern of biological response to human disturbance was repeated across all 3 regions in Florida (panhandle, peninsula, and northeast), indicating that the multimetric index was independent of geographic context. Finally, the index was consistent across years, with a nearly identical relationship between the SCI and HDG for 10 years of data.

To document every source of human disturbance is prohibitively expensive; consequently, the HDG was inevitably incomplete. We had no information on metals, pesticides, dredging, or other pollutants. Aerial pesticide application is a frequent practice on agricultural lands and can be very damaging to stream invertebrates, as pesticides are concentrated in rain runoff (Hutchens et al., 1998). This lack of information may likely explain why low SCI values were observed for sites with no known source of disturbance. In sharp contrast, sites with known disturbance never had high values for the SCI. This result supports the idea that much of the lack of fit between disturbance and biological condition is largely due to measurement error associated with quantifying human disturbance, rather than the variability of biological measures (Bryce et al., 1999; Karr and Morishita Rossano, 2001; Fore, 2003). In short, multimetric indexes accurately synthesize the influence of human activities over time, while measures of human disturbance are at best approximations of the complex ways that human activities influence the environment.

The SCI had good statistical precision and could detect 3.7 categories of biological condition based on a single sample and 5 categories based on 2 samples. The BioRecon was not as precise but had adequate precision to detect 2.5 categories of biological condition based on a single sample and 3.5 categories for 2 samples. Strong correlation with an independent measure of disturbance, good statistical precision, immunity to regional differences or watershed size, and minimal sensitivity to seasonal or yearly differences all contribute to the usefulness of these indexes for the biological assessment of Florida's streams.

We followed U.S. EPA guidance to translate index values into biocriteria to be included as part of the water quality standards for the state. Two approaches were used to define categories of biological condition. The primary approach involved convening a panel of regional aquatic scientists to apply a nationally endorsed conceptual model of biological condition to Florida stream data, and was used to define the threshold of impairment (line between biological condition Categories of 2 and 3). The second approach used data from minimally disturbed areas (reference sites) to define expectations for reference condition and to define the threshold of exceptional sites (line between biological condition Categories of 1 and 2). Based on these results, three categories of biological condition are proposed to represent Category 1 ("exceptional"), Category 2 ("healthy"),and Category 3 ("impaired") biological condition for Florida stream site assessments. The results reported here provide the scientific basis for managing and protecting Florida's stream resources.

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APPENDICES

Appendix A. HDG calculation

This appendix details the calculations and interim steps involved in deriving an HDG value for each site. The HDG combined 4 measures of human disturbance (NH_3, habitat index, hydrologic index, and LDI) by first converting them to unitless scores (representing low, medium and high disturbance) and then summing the scores. When multiple site visits occurred at a single sampling location, the individual component measures were averaged for each site and then converted to unitless scores. For a site with multiple visits, NH_3, the habitat index, and, in a few instances, the hydrologic index, could change. LDI could not change because it was calculated only once for each site. When component values were missing, they were assumed to be in good condition and scored as 0.

Coding for NH_3

Many of the reported NH_3 values had qualifiers associated with them. In some cases the qualifiers were omitted and the results were used as reported and in others the value was simply set to 0 to simplify coding for the HDG (Table A-1). Another more common approach is to record half of the detection limit rather than 0, but for calculating the HDG this interim recoding did not matter because either value would be scored as a 0 for the HDG.

Table A-1. Laboratory codes associated with water chemistry values, their description, and the action used to convert them to simple numbers. All the codes are listed but J and Q were not found for the NH_3 values.

CODE	Description	ACTION
A	A-Value reported is the mean of two or more determinations	omitted A qualifier and used result as reported
I	I- The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit	set result to 0
J	J-Estimated Value	omitted J qualifier and used result as reported
Q	Q-Sample held beyond normal holding time	omitted Q qualifier and used result as reported
U or BDL	U-Material analyzed for but not detected; value reported is the minimum detection limit	set result to 0
T	T- below detection limit; estimate	set result to 0

Derivation of habitat index values

Data for this study were collected from 1991–2001. During that time the habitat assessment protocol was modified and additional measurements were added. During these different time periods the maximum possible total score changed. To make comparisons of the habitat index across years, we divided habitat index values by the total maximum score that was possible for that protocol. In this way the habitat index was transformed into a percentage measure that ranged from 0–100%.

Derivation of hydrologic index values

At the April, 2002, Biocriteria Meeting, a training session on the hydrologic index scoring process was conducted. The purpose for assigning the hydrologic modification scores was to develop one of several components of the HDG. FDEP biologists were instructed to use their knowledge of human activities within a watershed and upstream of selected sampling sites in order to assign a score from 1 to 10, following the specific criteria presented (see Table 2, main document). The key issues for consideration in the scoring process were:

- *The stream's hydrograph response to a rain event.*
- *The amount of ditching or impoundments within the watershed that would alter normal water deliveries to the stream.*
- *Topographic alterations in the watershed that would adversely affect water deliveries to the stream.*
- *Water withdrawals (consumptive use) in the area that may reduce water to the stream.*
- *The relative amount of impervious surfaces in the watershed that would "spike" the hydrograph.*

Since the participants had simultaneously visited certain streams as part of previous Biocriteria Meeting training and quality assurance activities, appropriate hydrologic index scores for these example streams were discussed, to promote consistency in the application of the process.

Scoring component measures of the HDG

In order to calculate the HDG, the 4 component measures were first transformed into unitless scores (see Table 5, main document, for scoring rules). The first round of data was used to derive the break points for scoring the measures. The graphs used to define the break points are shown below for each of the 4 component measures. To define the scoring rules, natural break points in the data were used. When no break points were obvious, the range of the data was divided into approximately equal parts.

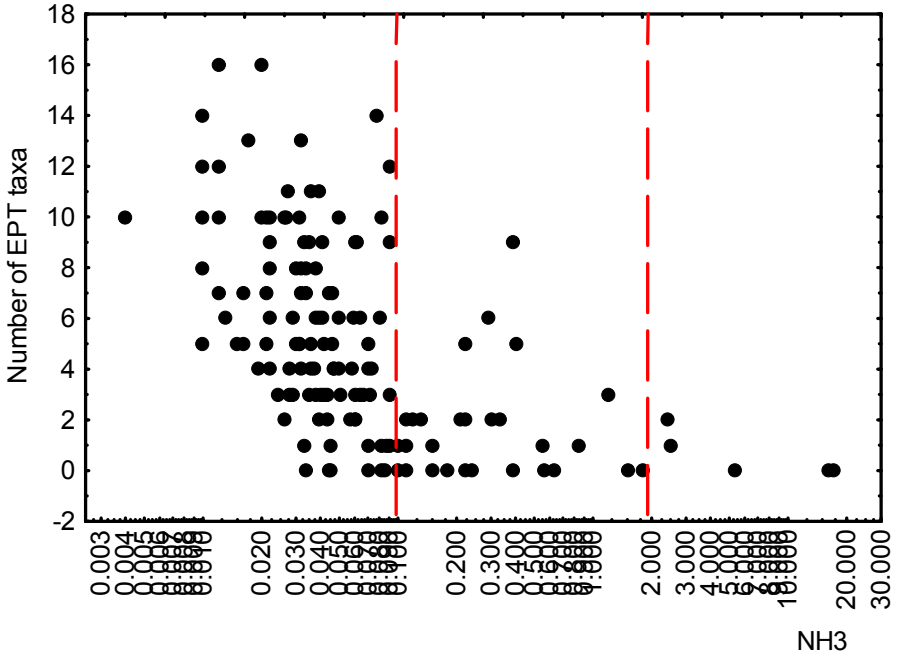


Figure A-1. Scoring rules for NH_3 for inclusion in the HDG. NH_3 plotted against a logarithmic axis.

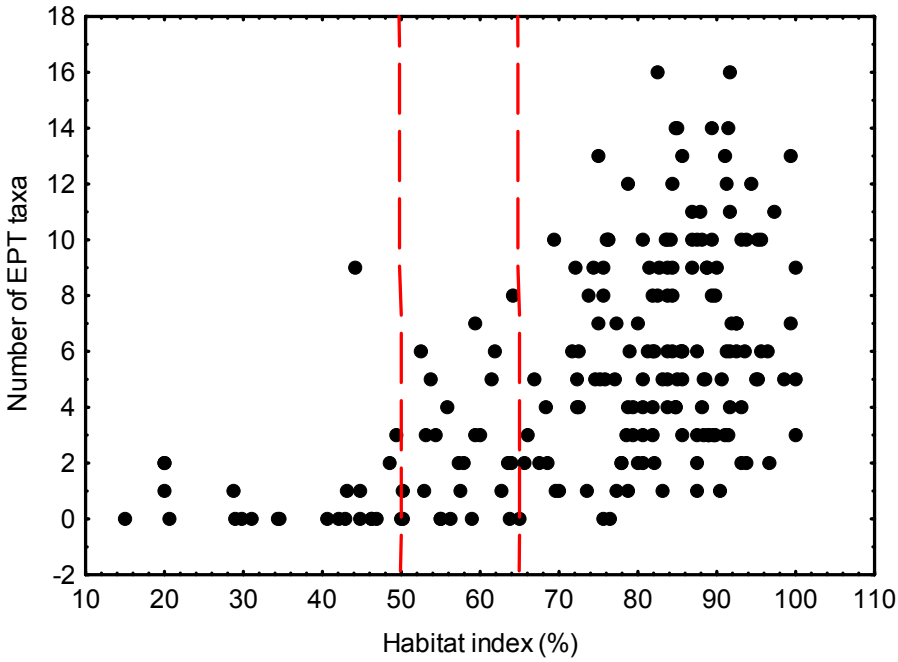


Figure A-2. Scoring rules for the habitat index for inclusion in the HDG.

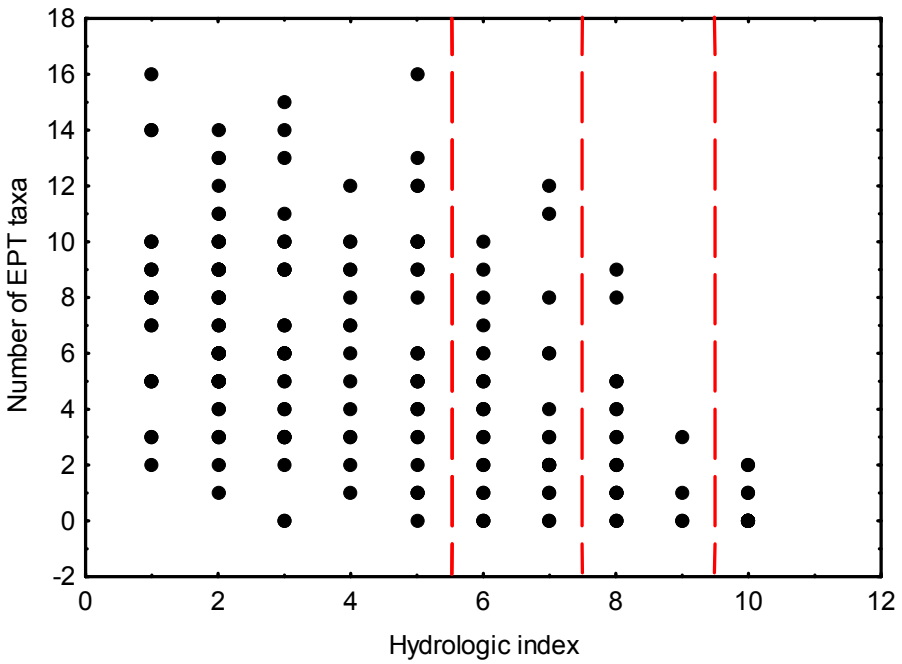


Figure A-3. Scoring rules for hydrologic index for inclusion in the HDG.

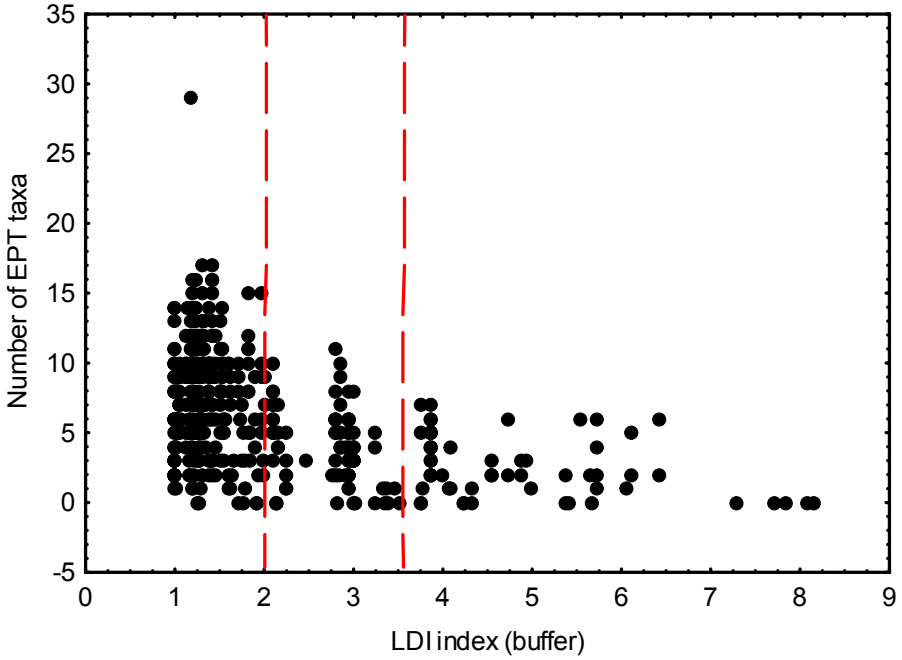


Figure A-4. Scoring rules for the LDI index for inclusion in the HDG.

Appendix B. Long-lived taxa

Taxonomic order, family, genus, or species name of taxa used to calculate long-lived taxa richness. Taxonomic synonyms present in the current Florida database are also shown. Long-lived (semivoltine) taxa require more than one year to complete their life cycles.

Order	Family	Genus	Species (Long-lived)	Synonyms
Decapoda			All families, genera, and species	
Basommatophora	Lymnaeidae	*Fossaria*	All species	
Mesogastropoda	Ampulariidae	*Pomacea*	All species	
Veneroida	Corbiculiidae	*Corbicula*	*Corbicula fluminea*	*Corbicula manilensis*
Unionoida	Unionidae		All genera and species	
Odonata	Aeshnidae	*Basiaeschna*	*Basiaeschna janata*	
		Boyeria	All species	
	Cordulegastridae		All species	
	Gomphidae	*Gomphus*	*All species*	*Gomphurus*
		Haegenius	*Hagenius brevistylus*	
		Progomphus	All species	
	Libellulidae	*Macromia*	All species	
		Somatochlora	All species	
		Tetragoneuria	All species	*Epitheca*
	Petaluridae	*Tachopteryx*	*Tachopteryx thoreyi*	

Order	Family	Genus	Species (Long-lived)	Synonyms
Plecoptera	Pteronarcidae	*Pteronarcys*	*Pteronarcys dorsata*	
	Leuctridae	*Leuctra*	All species	
	Peltoperlidae	*Tallaperla*	*Tallaperla cornelia*	
	Perlidae	*Acroneuria*	All species	
		Agnetina	*Agnetina annulipes*	
		Eccoptura	*Eccoptura xanthenes*	*Acroneuria xanthenes*
		Neoperla	All species	
		Paragnetina	All species	*Banksiana*
				Banksiella
	Perlodidae	*Clioperla*	*Clioperla clio*	*Isoperla clio*
		Perlinella	*Perlinella drymo*	*Atoperla ephyre*
			Perlinella ephyre/zwicki	
		Isoperla	*Isoperla orata*	
Megaloptera	Corydalidae		All genera and species	
Trichoptera	Brachycentridae	*Brachycentrus*	*Brachycentrus americanus*	*Oligoplectrum amercanum*
		Micrasema	All species	
	Calamoceratidae	*Heteroplectron*	*Heteroplectron americanum*	
	Hydropsychidae	*Diplectrona*	*Diplectrona modesta*	
		Macrostemum	*Macrostemum carolina*	*Macronema carolina*
				Macronemum carolina
	Lepidostomidae	*Lepidostoma*	All species	*Alepomyia, Alepomyiodes,*
				Arcadopsyche, Atomyia,
				Jenortha, Mormomyia,
				Neuropsyche, Nosopus,
				Notiopsyche, Olemira,

Order	Family	Genus	Species (Long-lived)	Synonyms
				Oligopsyche, Phanopsyche,
				Pristosilo, Athripsodes
	Leptoceridae	*Ceraclea*	All species	
	Limnephilidae	*Ironoquia*	*Ironoquia punctatissisma*	
		Pycnopsyche	All species	
	Molannidae	*Molanna*	All species	
	Phryganeidae	*Banksiola*	*Banksiola concatenata*	*Neuronia concatenata*
		Ptilostomis	*Ptilostomis postica*	*Neuronia postica*
		Agrypnia	*Agrypnia vestita*	
	Psychomyiidae	*Lype*	*Lype diversa*	
	Rhyacophilidae	*Rhyacophila*	All species	
	Uenoidae	*Neophylax*	All species	

Appendix C. Sensitive taxa

Taxonomic order, family, genus or species name; taxonomic synonyms in the current Florida database; whether the taxon was included in the Florida Index (2 = very sensitive; 1 = sensitive); and species name of Florida Index taxa are listed for taxa identified as sensitive to human disturbance.

Order	Family	Genus	Species (sensitive)	Synonyms	Florida index	
Acariformes	Lebertiidae	*Lebertia*	All species			
Isopoda	Asellidae	*Caecidotea*	*Caecidotea*	Asellus	1	*Caecidotea* spp.
Amphipoda	Crangonyctidae	*Crangonyx*	*Crangonyx*			
Ephemeroptera	Baetidae	*Acerpenna*	*Acerpenna pygmaea*	*Baetis pygmaeus*		
	Ephemerellidae		All genera and species			
	Heptageniidae		All genera and species		1	*Stenacron interpunctatum* *Stenonema mexicanum integrum*
					2	*Stenonema exiguum* *Stenonema smithae*
	Leptophlebiidae		All genera and species			
	Leptohyphidae		All genera and species			
Odonata	Libellulidae	*Macromia*	All species		2	*Macromia* spp.
Plecoptera			All families, genera and species		2	All Plecoptera
Trichoptera	Hydropsychidae	*Hydropsyche*	All species		2	*Hydropsyche* spp.
	Leptoceridae	*Triaenodes*	All species			
	Philopotamidae	*Chimarra*	*Chimarra*		2	*Chimarra* spp.

Order	Family	Genus	Species (sensitive)	Synonyms	Florida index	
	Psychomyiidae	*Lype*	*Lype diversa*			
Coleoptera	Elmidae	*Ancyronyx*	*Ancyronyx variegatus*			
		Gonielmis	*Gonielmis dietrichi*			
		Macronychus	*Macronychus glabratus*			
Diptera	Chironomidae	*Microtendipes*	All species			
		Parametriocnemus	All species			
		Polypedilum	*Polypedilum aviceps*			
		Rheocricotopus	All species		2	*Rheocricotopus robacki*
		Stempellinella	All species			
		Tanytarsus	*Tanytarsus sp. d epler*			
		Tanytarsus	*Tanytarsus sp. m epler*			
		Tribelos	*Tribelos jucundum*			
	Empididae	*Hemerodromia*	*Hemerodromia*			
	Simuliidae		All genera and species		2	*Simulium* spp.

Appendix D. Very tolerant taxa

Taxonomic order, family, genus or species name; taxonomic synonyms in the current Florida database; whether the taxon was included in the Florida Index (2 = very sensitive; 1 = sensitive); and species name of Florida Index taxa are listed for taxa identified as very tolerant to human disturbance.

Order	Family	Genus	Species (very tolerant)	Synonyms	Florida Index	
Hoplonemertea	Tetrastemmatidae	*Prostoma*	*Prostoma rubrum*			
Haplotaxida	Naididae	*Bratislavia*	*Bratislavia unidentata*			
		Dero	All species			
		Nais	*Nais communis* complex	Nais communis		
				Nais elinguis		
				Nais pardalis		
				Nais variabilis		
		Pristina	*Pristina synclites*			
	Tubificidae	*Haber*	*Haber speciosus*			
		Limnodrilus	All species	*Camptodrilus californicus*		
				Limnodrilus aurantiacus		
Lumbriculida	Lumbriculidae	*Lumbriculus*	All species			
Rhynchobdellida	Glossiphoniidae		All genera and species			
Basommatophora	Ancylidae	*Hebetancylus*	*Hebetancylus excentricus*			
		Laevapex	All species			
	Physidae	*Physella*	All species			
	Planorbidae		All genera and species			

Order	Family	Genus	Species (very tolerant)	Synonyms	Florida Index	
Mesogastropoda	Hydrobiidae	*Pyrgophorus*	*Pyrgophorus platyrachis*	*Pyrogophorus platyrachis*		
	Thiaridae	*Melanoides*	All species			
Odonata	Libellulidae	*Pachydiplax*	*Pachydiplax longipennis*			
	Coenagrionidae	*Argia*	*Argia sedula*		2	*Argia sedula*
		Enallagma	*Enallagma cardenium*	*Enallagma coecum*		
		Ischnura	All species	Anomalagrion		
Heteroptera	Mesoveliidae		All genera and species			
Lepidoptera	Pyralidae		All genera and species			
Coleoptera	Haliplidae	*Peltodytes*	All species			
Diptera	Chironomidae	*Larsia*	All species		1	*Larsia lurida*
					1	*Larsia decolorata*
		Chironomus	*All species*	*Tendipes Chaetolabis*		
		Cladopelma	*Cladopelma*			
		Cricotopus	All species		2	*Cricotopus bicinctus*
		Cryptochironomus	All species			
		Dicrotendipes	*Dicrotendipes modestus*			
			Dicrotendipes neomodestus			
		Glyptotendipes	All species			
		Goeldichironomus	All species			
		Kiefferulus	*Kiefferulus*			

Order	Family	Genus	Species (very tolerant)	Synonyms	Florida Index	
		Parachironomus	All species			
		Polypedilum	*Polypedilum beckae*	*Asheum beckae* *Pedionomus beckae*		
			Polypedilum illinoiense grp.	*Polypedilum illnoense*	1	*Polypedilum illinoiense grp.*
			Polypedilum tritum	*Chironomus tritum*		
		Tanypus	All species	Pelopia		
		Tanytarsus	*Tanytarsus sp. f epler*			
	Stratiomyidae	*Odontomyia*	*Odontomyia*	Eulalia		
	Tipulidae	*Tipula*	*Tipula*	*Nippotipula* *Playttipula* *Yamatotipula*		

Appendix E. Regional calibration of SCI metric scores

After metrics were selected based on their correlation with the human disturbance gradient (HDG), they were transformed to unitless scores to compensate for differences in their ranges of values. For example, percentage filterer might range from 0 to 60% while long-lived taxa range only from 0 to 7. The 5th and 95th percentiles for each metric were used to determine the metric values that would be defined as 0 and 10 **(Table E-1)**. To control for differences due to natural variability associated with different bioregions, the percentiles were calculated within each of the 3 bioregions.

The next step tested for regional differences in metrics scores by regressing metric scores for each bioregion against the HDG and comparing the slopes of their lines. If the regression lines for each bioregion failed to match closely, the endpoints for the metrics that defined values of 0 and 10 were adjusted away from the 5th and 95th percentiles and tested again until the regression lines for the different bioregions yielded a similar relationship with HDG **(Figure E-1; Table E-2)**. In some cases, the 5th percentile values were very close and they were simply averaged across bioregions for simplicity.

After determining which metric values define the scores of 0 and 10, the remaining metric values between those endpoints must also be scored (**Table E-3;** FDEP, 2007). As an example, for taxa richness in the northeast bioregion the interval between the 2 endpoints is 42 – 16 which equals 26. If the lowest endpoint is 16, we would first subtract 16 from the total taxa richness observed at a site, divide by the interval length of 26, and multiply the result by 10 to obtain scores that range from 0 to 10. Taxa richness values less than 16 would be scored as 0 and values greater than 42 would be scored as a 10.

Table E-1. SCI metric name, 5th and 95th percentile values by bioregion for site-visits with 75–175 individuals. Underlined values indicate that the metric values used to define a score of 0 or 10 were slightly different from the percentile value.

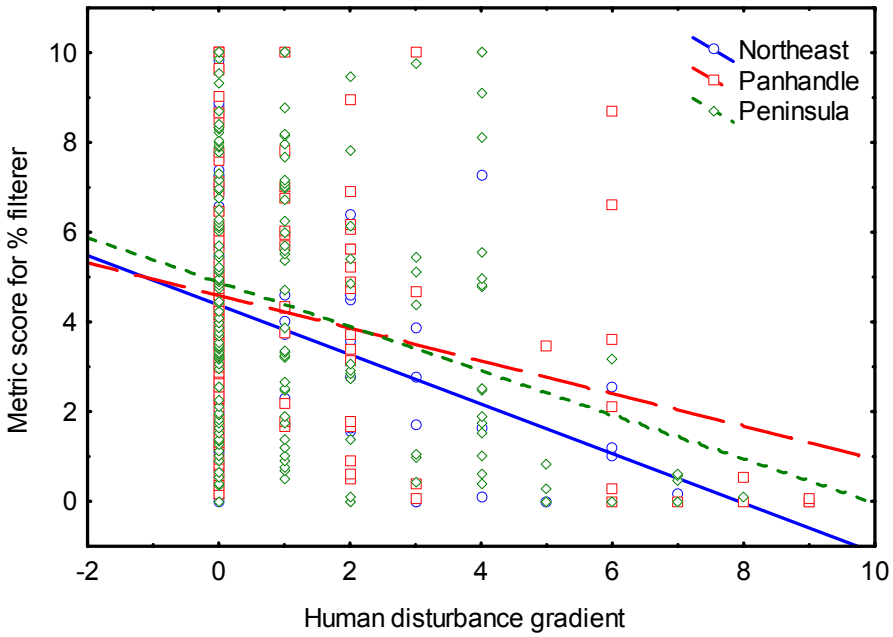
SCI Metric	NE 5th %tile	PH 5th %tile	PS 5th %tile	NE 95th %tile	PH 95th %tile	PS 95th %tile
Total taxa	17.0	16.0	16.0	42.0	46.0	41.0
Ephemeroptera taxa	0.0	0.0	0.0	4.0	6.0	5.0
Trichoptera taxa	0.0	0.0	0.0	7.0	7.0	7.0
% Filterer	1.4	1.3	0.9	52.0	45.1	40.0
Long-lived taxa	0.0	0.0	0.0	3.0	5.0	4.0
Clinger taxa	0.0	0.0	0.0	10.0	14.0	8.0
% Dominance	10.9	9.6	11.6	47.2	42.6	54.5
% Tanytarsini	0.0	0.0	0.0	27.9	22.8	26.8
Sensitive taxa	0.0	0.0	0.0	11.0	16.0	9.0
% Very tolerant	0.0	0.0	0.8	78.2	36.3	58.5

Table E-2 (Table 8 from main SCI document). SCI metric name, adjusted metric values used to scores metrics (endpoints of the range represent scores of 0 and 10), and comment describing how the values differed from the 5th and 95th percentiles. Underlined values correspond to the underlined values in Table E-1.

SCI Metric	Northeast	Panhandle	Peninsula	Comment
Total taxa	16–42	16–49	16–41	Averaged the 5th %tile and used same value in all bioregions
Ephemeroptera taxa	0–3.5	0–6	0–5	Lowered expectations for 95th %tile for NE
Trichoptera taxa	0–6.5	0–7	0–7	Lowered expectations for 95th %tile for NE
% Filterer	1–42	1–45	1–40	Lowered expectations for 95th %tile for NE
Long-lived taxa	0–3	0–5	0–4	
Clinger taxa	0–9	0–15.5	0–8	Lowered expectations for 95th %tile for NE; raised for PH
% Dominance	54–10	43–10	54–10	Averaged lower 5th %tile;
% Tanytarsini	0–26	0–26	0–26	Raised expectations for 95th %tile for NE
Sensitive taxa	0–11	0–19	0–9	Raised expectation for 95th %tile for PH
% Very tolerant	78–0	36–0	59–0	

Table E-3. SCI metric scoring formulae for converting metric values to a metric score ranging from 0 to 10. In each equation, 'X' stands for the raw metric value; "ln" stands for the natural log.

SCI metric	Northeast	Panhandle	Peninsula
Total taxa	10 * (X–16)/26	10 * (X–16)/33	10 * (X–16)/25
Ephem. taxa	10 * X /3.5	10 * X /6	10 * X /5
Trichoptera taxa	10 * X /6.5	10 * X /7	10 * X /7
% Filterer	10 * (X–1)/41	10 * (X–1)/44	10 * (X–1)/39
Long-lived taxa	10 * X /3	10 * X /5	10 * X /4
Clinger taxa	10 * X /9	10 * X /15.5	10 * X /8
% Dominance	10 – (10 * [(X–10)/44])	10 – (10 * [(X–10)/33])	10 – (10 * [(X–10)/44])
% Tanytarsini	10 * [ln(X + 1) /3.3]	10 * [ln(X + 1) /3.3]	10 * [ln(X + 1) /3.3]
Sensitive taxa	10 * X /11	10 * X /19	10 * X /9
% Very tolerant	10 – (10 * [ln(X + 1)/4.4])	10 – (10 * [ln(X + 1)/3.6])	10 – (10 * [ln(X + 1)/4.1])



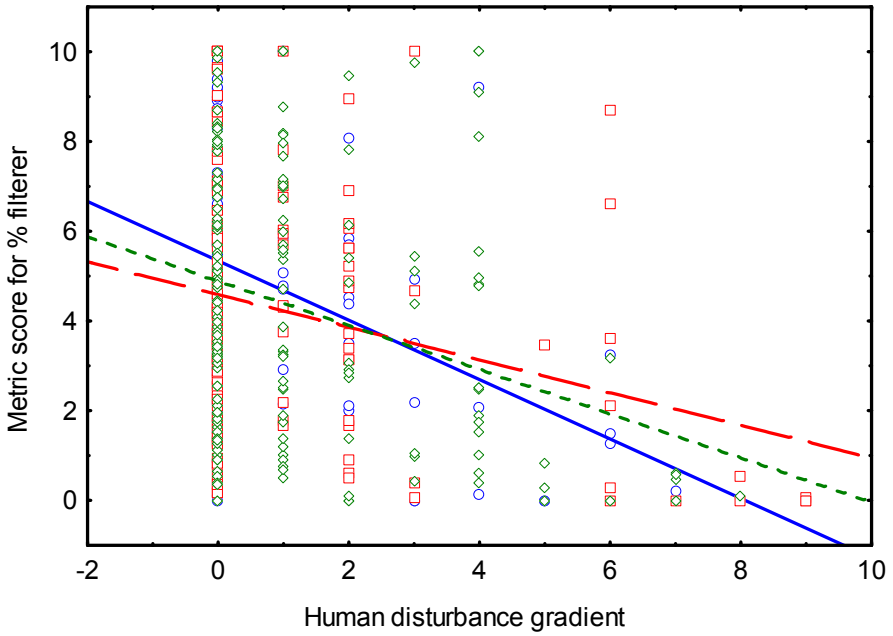


Figure E-1. Metric scores for percent filterer by bioregion. The upper panel shows metrics scored according the 5th and 95th percentiles and the lower panel shows scores after adjustment. The regression line for the NE bioregion was lower than the other 2 regions initially and plotted higher and closer to the other 2 lines after adjustment.

References

Florida Department of Environmental Protection (FDEP) 2007. Department of Environmental Protection Standard Operating Procedures for Laboratory Activities. Table LT7200-1 of LT 7200 Stream Condition Index (SCI) Determination in DEP-SOP-002/01. LT 7000 Determination of Biological Indices. Available: http://www.dep.state.fl.us/labs/sop/index.htm.

Appendix F. ANOVA output and regression results for the SCI and BioRecon

Table F-1. General linear model output for the SCI versus HDG by region (northeast, panhandle, or peninsula)

Neither the region nor the interaction of the HDG and region was statistically significant. Test failed to detect a difference in SCI values due to region.

Univariate Tests of Significance for AvgOfSCI6_100 (1NGM_4)					
	SS	**df**	**MS**	**F**	**p**
Intercept	403623.3	1	403623.3	1832.253	0.000000
Region	361.6	2	180.8	0.821	**0.441846**
HDG2	62750.7	1	62750.7	284.858	0.000000
Region*HDG2	1142.9	2	571.5	2.594	**0.077660**
Error	37449.0	170	220.3		

Table F-2. General linear model output for the SCI versus HDG by year class (1992–93, 1994–95, 1996–97, 1998–99, and 2000–01)

The interaction term was not significantly different for year class and the HDG, suggesting the lines were parallel (equal slopes). The year class alone, however, was significant, with values for 1994–95 being slightly higher for the SCI.

Univariate Tests of Significance for SCI6_100 (1NGM_4)					
	SS	**df**	**MS**	**F**	**p**
Intercept	1627060	1	1627060	5835.657	0.000000
Year class	2948	4	737	2.644	**0.032766**
HDG2	134497	1	134497	482.390	0.000000
Year class*HDG2	791	4	198	0.709	**0.586005**
Error	171749	616	279		

Table F-3. ANOVA estimates of SCI variability for repeat visits to the same site within a year

Error estimate used to calculate confidence interval is underlined.

ANOVA for SCI (SCI6_100) (Same_day_SCI)							
	Effect	**df**	**MS**	**df**	**MS**	**F**	**p**
{1}STORET	Random	60	1211.636	39.41542	188.7279	6.420014	0.000000
{2}Year	Random	6	269.430	35.76223	170.2402	1.582648	0.180727
1*2	Random	53	134.481	82.00000	**66.5952**	2.019385	0.002054

Table F-4. ANOVA estimates of SCI variability for laboratory subsampling

Error estimate used is underlined.

ANOVA Results: SCI subsampling (Metrics)							
	Effect	**df**	**MS**	**df**	**MS**	**F**	**p**
{1}Sitename	Random	58	1393.986	118	**32.86312**	42.41795	0.00

Table F-5. ANOVA estimates of BioRecon variability for repeat visits to the same site within a year

Error estimate used to calculate confidence interval is underlined.

ANOVA for BioRecon (BR3_10) (New metrics multiple_2)							
	Effect	**df**	**MS**	**df**	**MS**	**F**	**p**
{1}STORET	Random	126	15.91691	117.3771	1.696009	9.384924	0.000000
{2}year	Random	8	6.02260	156.0000	**1.458840**	4.128352	0.000171

Appendix G. Optimal sample size for calculating SCI

D. Whiting, J. Espy, and L. Wolfe (FDEP)

Taxa richness increases with the number of individuals identified from a sample. This relationship is well documented for many studies (Larsen and Herlihy, 1998), and is further supported by recent analyses conducted for FDEP which are described below. Because the SCI includes several metrics that quantify taxa richness, the concern here is that SCI values may be artificially increased or decreased depending on the number of individuals identified from a sample. Therefore, laboratory methods were modified in recent years (2004–2006) to ensure that the number of individuals identified is more consistent across samples.

The SCI data used to develop and test the SCI and BioRecon were collected between 1991–2001. The laboratory protocols used during that time mandated a target number of 100 individuals. In practice, however, this target was often exceeded due to the nature of the laboratory subsampling methods (many samples had several hundred individuals). During this early time period, FDEP did subsample material collected from the field; however, laboratory protocols did not allow multiple divisions of the material to achieve the 100-individual target. For the data set used to test and develop SCI, only site-visits with 75–175 individuals were used in order to more closely approximate the target number of individuals. Thus, metric expectations and scoring rules for SCI were based on samples with between 75 and 175 individuals (mean 122, median 119). Restricting the index development data set to samples with only 100 to 110 individuals would have reduced the number of samples available for the recalibration effort dramatically, thereby reducing confidence in the resulting biomonitoring tool.

The target number of organisms for the 2004 laboratory protocols for the SCI was 100 organisms (acceptable range 100-110). Such a narrow acceptable range was made possible by modifying the 20-dip net sweep composite sample preparation Standard Operating Procedure. This modification resulted in the samples consistently being on target.

Random site sampling in 2004 from the ambient monitoring program yielded an adequate number of samples (n = 201) to compare the effect of the more accurate laboratory subsampling methods on metric values. We compared the percentiles of the metric values used to define the scoring rules for the SCI and the percentiles of metric values from this more recent data set. For the 1992-2001 sampling, 420 samples with between 75 and 175 individuals were used. For the 2004 sampling, 196 samples were used. Approximately even numbers of samples were available for the 2004 data in the peninsula and panhandle regions; not enough sites were sampled in the northeast to calculate percentiles.

This comparison was not ideal because the sampling designs were very different. The 2004 sites were selected randomly while the earlier sites used in this study were selected for a variety of specific reasons (e.g., references sites, 5th years inspections, special studies, etc.). Thus, the distribution of percentile values may be shifted due to the laboratory methods or the types of sites sampled. If both data sets had been created from random sampling, the comparison would more clearly isolate the effect of the change in laboratory methods.

As expected, total taxa richness showed the largest differences with lower values observed in 2004 **(Table G-1)**. Other taxa richness metrics were also lower at the 95th percentile. Ephemeroptera and long-lived taxa were lower in peninsula region, Trichoptera had a similar distribution, and clinger taxa were lower in the panhandle region. The 95th percentiles for sensitive taxa were lower in both regions.

Developing scientific protocols for use in a regulatory framework is inevitably an iterative process. Our understanding of the sources of variability and the influence of precision on assessment methods has evolved rapidly in recent years. If we were to start over with no data on

hand and develop a biological monitoring protocol, the number of individuals to identify from each sample might be one of the first elements that we would define. The iterative nature of this process derives from the fact that knowledge gained regarding one aspect of the analysis methods often necessitates that methods related to another aspect of the analysis be reconsidered. A large portion of the variability in SCI values was tied to laboratory methods, and subsequently, improvements have been made in that area. This change should be understood as a *calibration* of the monitoring protocol. The fundamental relationships between biological metrics and human influence are unaffected by this issue.

A recent analysis by the FDEP Central Laboratory biologists has found that averaging the SCI scores from two 150-organism subsamples provides a more reliable assessment than a single 100-organism subsample. The objective of this analysis was to evaluate how laboratory processing and/or the number of individuals identified affects SCI score variability. For this analysis, all the organisms found in one-third (33%) of the material brought to the laboratory for each of three samples were identified. Using those data, 250 random draws were conducted for each sample for each of six different target numbers of individuals: 100, 125, 150, 175, 200, and 300 **(Figures G-1 to G-3)**

Table G-1. Percentiles of metric values for the development data set and random sampling in 2004

Shown are the 5th and 95th percentile values for SCI metrics from sites sampled during 1992–2001 (SCI development data set) and 2004 (ambient sampling).

	Panhandle				Peninsula			
	1992-2001	2004	1992-2001	2004	1992-2001	2004	1992-2001	2004
Percentile	**5th**	**5th**	**95th**	**95th**	**5th**	**5th**	**95th**	**95th**
Total taxa	16.0	13.0	46.0	37.0	16.0	13.0	41.0	35.0
Ephemeroptera taxa	0.0	0.0	6.0	5.0	0.0	0.0	5.0	3.0
Trichoptera taxa	0.0	0.0	7.0	6.0	0.0	0.0	7.0	7.0
% Filterer	1.3	0.9	45.1	45.7	0.9	0.0	40.0	32.0
Long-lived taxa	0.0	0.0	5.0	5.0	0.0	0.0	4.0	2.0
Clinger taxa	0.0	0.0	14.0	9.0	0.0	0.0	8.0	7.0
% Dominance	9.6	11.9	42.6	55.3	11.6	13.2	54.5	68.0
%Tanytarsini	0.0	0.0	22.8	31.8	0.0	0.0	26.8	20.0
Sensitive taxa	0.0	0.0	16.0	11.0	0.0	0.0	9.0	7.0
% Very tolerant	0.0	0.0	36.3	48.1	0.8	1.0	58.5	79.8

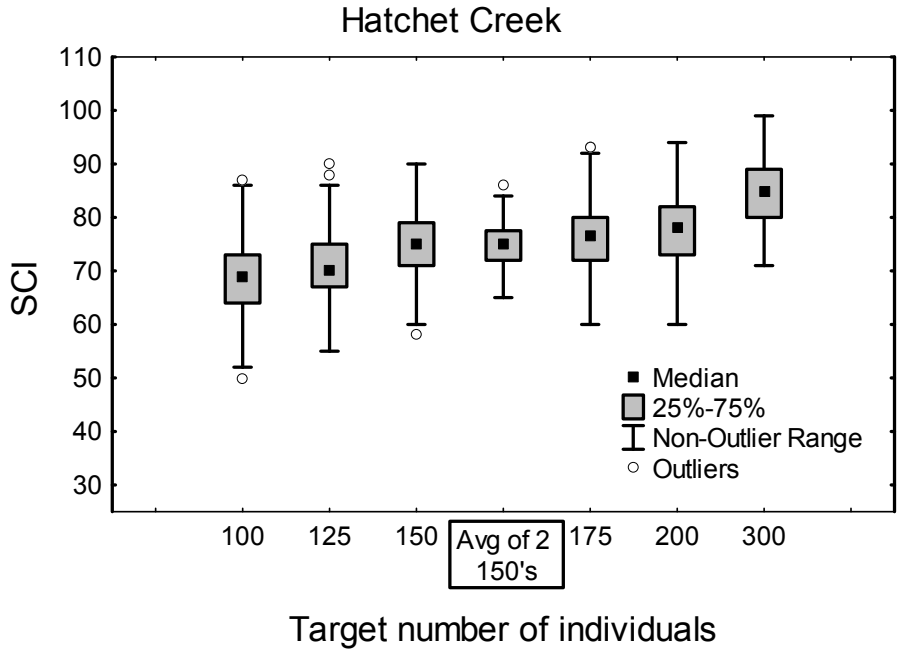


Figure G-1. Box plots showing the change in SCI score with target number of individuals counted for 250 random draws of one-third of a sample from Hatchet Creek. Shown also is the box plot for the average SCI score from 2 150 subsamples.

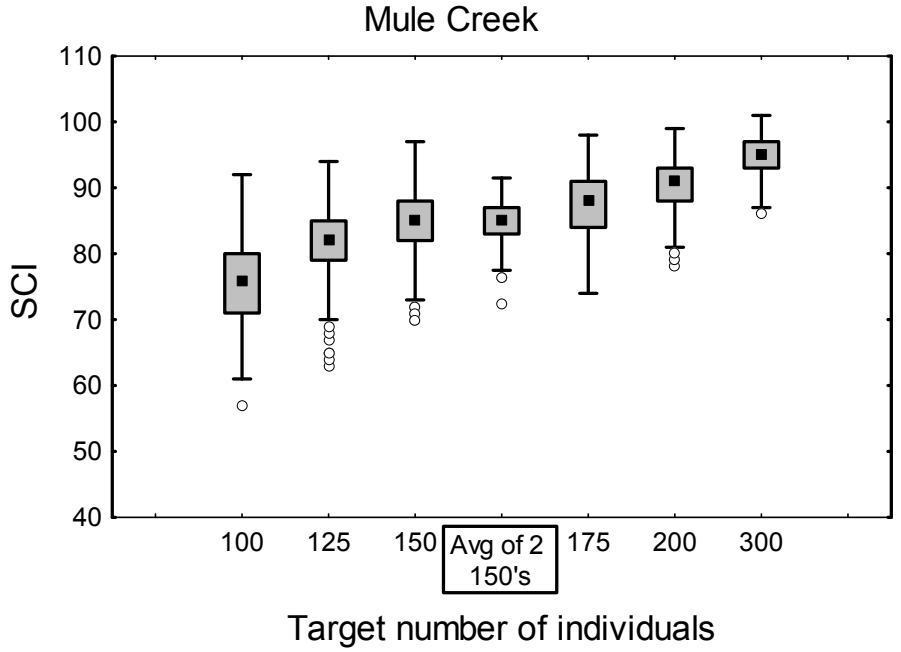


Figure G-2. Box plots showing the change in SCI score with target number of individuals counted for 250 random draws of one-third of a sample from Mule Creek. Shown also is the box plot for the average SCI score from 2 150 subsamples.

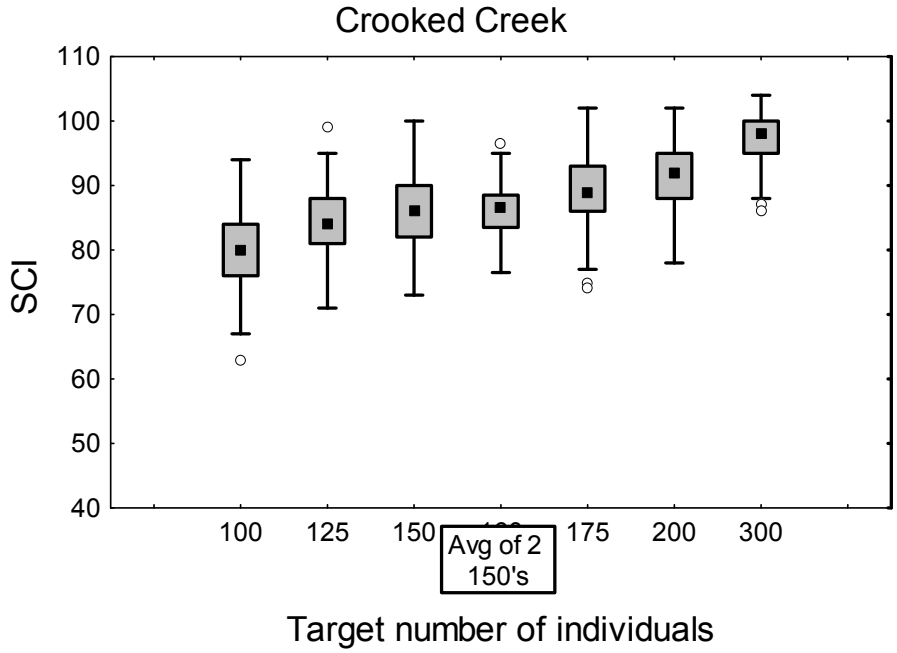


Figure G-3. Box plots showing the change in SCI score with target number of individuals counted for 250 random draws of one-third of a sample from Crooked Creek. Shown also is the box plot for the average SCI score from 2 150 subsamples.

FDEP Central Lab biologists believe the increase in precision associated with larger and multiple subsamples is worth the cost, as it makes the calculated result less variable and provides greater confidence in the tool. Prior to the sample preparation SOP being modified to more accurately achieve the target number of organisms, the sample processing time at the FDEP Central Laboratory averaged 18 hours per sample. The revision to the SOP resulted in the processing time being reduced by 56% (approximately 8 hours). While the increase from 100 organisms to 300 organisms (150x2) results in a significant increase in laboratory workload (average processing time based upon preliminary data is about 14 hours), the increase is balanced by the earlier changes to the sample preparation SOP that result in the analyst more accurately achieving the target number of organisms. The result is the identification of three times as many organisms for approximately a 75% increase in laboratory effort.

A survey of 43 state agencies' programs found that approximately 54% of those programs targeted 100 organisms (Carter and Resh, 2001). The next most commonly used target number of organisms was 300 (26%). All other target number of organisms were used by $\leq$ 7% of the programs. Additionally, U.S. EPA has used a target number of organisms of 300 for the National Wadeable Streams survey (EPA, 2006).

The FDEP decision to use 150X2 subsamples was made based upon four key points:

- First, the 150x2 subsampling will result in 300 organisms being identified, which was the second most common subsampling target number in the survey, and which is consistent with U.S. EPA minimum subsampling target used for the National Wadeable Streams survey
- Second, the use of 150x2 subsamples rather than one 300 target subsample maintains scoring within the range used to calibrate the SCI (75-175)

- Third, targeting 150 organisms in each subsample, rather than 125 organisms (approximately the mean number of organisms in the calibration dataset samples used to score the SCI metrics), results in a slightly higher score at good quality sites, while poor quality sites scores do not appear to increase similarly. This effect results in slightly better discrimination between good, moderate, and poor quality sites
- Fourth, the use of 150x2 subsamples reduces the variability in the resulting SCI score by using the average of two 150-organism-based. This reduction in variability improves consistency with regard to the assessment of category thresholds.

References

Carter, J. L. and V. H. Resh. 2001. After site selection and before data analysis: sampling, sorting, and laboratory procedures used in stream benthic macroinvertebrate monitoring programs by USA state agencies. Journal of the North American Benthological Society 20:658-682.

Larsen, D. P. and A. T. Herlihy. 1998. The dilemma of sampling streams for macroinvertebrate richness. Journal of the North American Benthological Society 17:359-366.

U. S. Environmental Protection Agency (EPA). 2006. *Wadeable Streams Assessment: A* Collaborative Survey of the Nation's Streams. EPA 841-B-06-002. Washington, D. C.: Office of Water. Available: http://www.epa.gov/owow/streamsurvey/.

Appendix H. FDEP Biological condition gradient workshop summary

Russel Frydenborg and Denise Miller (FDEP)

Background

Florida Department of Environmental Protection (FDEP) staff evaluated stream macroinvertebrate data from the stream condition index (SCI) recalibration dataset with the goal of refining delineations of biological/ecological condition based on the SCI 2004 scores. Several approaches were taken for this evaluation, among them a Biological Condition Gradient (BCG) Workshop which was conducted by FDEP staff on October 24, 2006. This document provides a summary of FDEP's BCG workshop. A more detailed description of the workshop and materials is provided in Frydenborg and Miller, 2007.

In preparing for this workshop, FDEP staff used the framework of prior such workshops conducted by Susan Davies of the Maine Department of Environmental Protection, Susan Jackson of the U.S. Environmental Protection Agency (Davies and Jackson, 2006), and Jeroen Gerritsen of Tetra Tech, Inc. Each of those individuals also contributed thoughtful commentary during the planning of this workshop.

For the FDEP BCG workshop, a group of experts in aquatic biology and stream macroinvertebrate identification were requested to review taxonomic data from a subset of samples from the SCI 2004 recalibration data set and to provide scores for those samples using the BCG framework (scoring based on descriptions of BCG attributes per experts' review of the taxonomic data). Each expert would thus provide their assessment of the biological condition of each of 30 samples selected by FDEP to span the range of SCI scores from the SCI 2004 recalibration data. Experts did not know the SCI scores for the samples. FDEP evaluated the experts' BCG scores together with SCI scores for the samples as one line of evidence in determining what delineations or thresholds of SCI scores should be used in regulatory decision-making (e.g., what distribution of scores signifies that a site is meeting designated use or not meeting designated use).

FDEP invited participants for this workshop who have expertise in Florida stream macroinvertebrate identification, and who hail from local and state regulatory agencies, universities and the private sector.

Methods

Prior to the workshop, experts were provided with background literature on the biocondition gradient concept (Davies and Jackson, 2006; Stoddard et al., 2006) and descriptions from FDEP of the intended process (Frydenborg and Miller, 2007: Attachment A). Experts were informed that they would be asked to review SCI sample data that would be provided to them at the workshop and to assign each sample a score of 1 to 6, signifying their assessment of the biological condition represented by the sample (1 best to 6 worst based on the 6 tiers of the conceptual BCG summarized from Davies and Jackson, 2006: Figure 2):

- Score of 1: Native or natural condition
- Score of 2: Minimal loss of species; some density changes may occur
- Score of 3: Some replacement of sensitive-rare species; functions fully maintained
- Score of 4: Some sensitive species maintained but notable replacement by more-tolerant taxa; altered distributions; functions largely maintained

- Score of 5: Tolerant species show increasing dominance; sensitive species are rare; functions altered
- Score of 6: Severe alteration of structure and function.

At the workshop, Russel Frydenborg, FDEP's workshop moderator, gave a presentation describing the BCG process and attributes, and distributed materials from the presentation for reference by the experts (Frydenborg and Miller, 2007: Attachment B).

During the workshop, experts were given the opportunity to discuss their rationale for scoring of a site, and, if they desired, to change their score for a site based on their assessment from the discussions (Delphi method). Scoring sheets were provided to each expert for recording both initial and final sample scores. Experts were requested to indicate what relevance they ascribed to their BCG scores. More specifically, they were asked to record the minimum BCG score(s) (1 being best, 6 worst) that they believed met the interim goals of the Clean Water Act (meets designated use), and what maximum score(s) they believed did not meet the interim goals of the Clean Water Act (impaired site; does not meet designated use). In other words, sites below a selected tier score would be considered "impaired."

Sample Selection

Sample data were drawn from the SCI recalibration data and were limited to those where the total number of individual organisms counted in the sample was between 100-175, inclusive.

Five (5) reference site (minimally disturbed condition site) samples from each of three (3) Florida Bioregions (Panhandle, Peninsula, Northeast) were selected to allow the experts an assessment of reference expectations separately for each region because prior SCI analysis indicated differences in expectations for some metrics between the bioregions **(Table H-1)**. The 15 reference site samples were selected from sites already identified as reference based on criteria defined independently of the biological condition (see *Chapter 4: Reference site selection*). The 5 reference samples from each bioregion were selected to span the range of SCI scores for all of the reference site samples from that bioregion, including minimum and maximum SCI 2004 scores, and samples with scores closest to the 25th percentile, median, and 75th percentile values from each bioregion reference range. SCI scores were used for sample selection, but were not provided to the experts. Additionally, experts were not provided with information about the location or description of the selected sample sites, other than the bioregion from which the samples were collected.

Additionally, 10 samples were selected for each bioregion, and identified to bioregion, for analysis of macroinvertebrate data and scoring by the experts. Sites were selected to span a range of conditions using existing information on SCI scores and Human Disturbance Gradient (HDG), and, as needed, LDI from the SCI recalibration data set. The specific 10-sample selection methodology for each bioregion was as follows **(Table H-2)**:

- 4 samples selected based on those having SCI scores closest to the 10th, 25th, median and 75th percentile SCI scores for the non-reference sites for the bioregion;
- 2 samples randomly selected from non-reference sites for the bioregion having SCI scores in the range of 35-50 (sorted on SCI score), to ensure scrutiny of some samples in this score range;
- 3 samples randomly drawn from HDG ranges of 1-2, 3-5, and/or 6-9, based on the assessment of the HDG scores already represented from the prior 6 sample selection (sorted on HDG scores);
- For the Northeast bioregion samples only, there were insufficient sites with the target HDG ranges (i.e., no HDG scores of 5 through 9, and only one HDG 4 site). Therefore, 2 of the intended HDG-based samples were randomly drawn based on the

range of LDI scores for the samples, after an assessment of the LDI scores already represented from the prior 7-sample selection. Specifically, there were 6 samples in the 1 to < 2 LDI range, and 1 sample in the LDI 6 to < 7 range. Therefore, 2 samples were randomly selected from the LDI 2 through 9 range (sorted on LDI scores), excepting sites with LDIs >= 6 and < 7; and,

- 1 sample randomly drawn from the entire non-reference dataset for the bioregion (sorted on HDG score).

Table H-1. BCG workshop reference sites

Site identification information, bioregion location, date of sampling, SCI value, and LDI value.

BCGSampleID	STORET	Station Nickname	Bioregion	Sample Date	SCI	LDI
NERef01	20030341	CECFLD7	Northeast	3/5/1996	70.4	1.90
NERef02	21010018	FALLNGREF	Northeast	7/27/1999	39	1.37
NERef03	19010099	PIGEONREF	Northeast	2/1/2000	58	1.27
NERef04	21010056	ROBCKCR131	Northeast	3/13/2000	79.2	1.35
NERef05	20030456	THOMASREFB	Northeast	3/14/1996	92.4	1.25
PanhRef01	33040014	BIGHORSREF	Panhandle	8/23/1994	67	1.23
PanhRef02	32010024	LIMEREF	Panhandle	7/14/1998	74.5	1.33
PanhRef03	33010065	RSTAREARUN	Panhandle	2/14/1996	54.7	1.19
PanhRef04	22030010	STMARKSREF	Panhandle	9/18/2001	40.5	1.29
PanhRef05	31010051	SWTREF	Panhandle	7/8/1992	97.8	1.31
PenRef01	28020237	CYPCKUNK	Peninsula	7/21/1999	55.7	1.18
PenRef02	20030414	GLDHEADREF	Peninsula	1/12/2000	100	1.00
PenRef03	24010002	MANAREF	Peninsula	11/21/2000	80.2	1.31
PenRef04	20020012	OKLRIVREF	Peninsula	2/15/2000	68.1	1.01
PenRef05	20030253	PUTNA44	Peninsula	3/16/1998	24	1.15

Table H-2. BCG workshop samples

BCG SampleID	STORET	Station Nickname	Bioregion	Sample Date	SCI	HDG	LDI	Selection Rationale
NE01	19020027	ALIGTRREF	Northeast	4/11/2001	47.1	1	1.4	SCI [35-50] random
NE02	19010049	BLDWIN REF	Northeast	2/14/2000	32.9	2	3.22	Random
NE03	19020053	CALAHANTST	Northeast	9/24/2001	24.4	3	1.41	SCI 10th Percentile (22.96)
NE04	19020053	CALAHANTST	Northeast	7/15/1996	40.1	3	1.41	SCI [35-50] random
NE05	20030549	CECFLD6	Northeast	3/6/1996	73.6	1	2	LDI [2-9] random
NE06	20030332	JAXHEITTST	Northeast	5/5/1992	28.9	4	6.11	HDG [3-5] random
NE07	21030059	LKBUTTST	Northeast	9/15/1992	9.1	3	5.26	LDI [2-9] random
NE08	19010073	MCCLNYTST	Northeast	3/22/1999	68	0	1.55	SCI 75th Percentile (68.27)
NE09	20030573	MILOG209	Northeast	1/26/1998	30.6	1	1.61	SCI 25th Percentile (30.39)
NE10	19020059	YULEEREF	Northeast	10/28/1996	47	0	1.28	SCI 50th Percentile (45.09)
Panh01	22020078	ABHOPTST	Panhandle	6/4/1996	20.7	3	1	HDG [3-5] random
Panh02	33040073	CANEYCBELL	Panhandle	8/22/2000	30	3	1.71	HDG [3-5] random
Panh03	31010125	CHATTATST	Panhandle	10/13/1998	62.5	0	1.62	SCI 50th Percentile (62.40)
Panh04	31020071	CHTMDLCRKD	Panhandle	7/23/1996	70.5	1	1.72	SCI 75th Percentile (70.50)
Panh05	31020072	CHTMDLOTTR	Panhandle	7/23/1996	43.5	2	1.42	Random
Panh06	33010112	COFECSTLR	Panhandle	2/16/1999	47.7	2	1.05	SCI [35-50] random
Panh07	31020042	DOZREF	Panhandle	9/1/1992	30.2	6	2.83	SCI 25th Percentile (30.10)
Panh08	31020043	DOZTST	Panhandle	9/1/1992	35.8	6	2.75	SCI [35-50] random
Panh09	22030064	FLAMINREF	Panhandle	3/8/1993	4.6	7	8.08	SCI 10th Percentile (4.92)
Panh10	22050003	TAYLO4	Panhandle	4/10/2000	0.6	3	2.28	HDG [3-5] random
Pen01	20030585	BUNCNTRL	Peninsula	9/8/1998	15.5	6	5.29	HDG [6-9] random
Pen02	25020550	DESOT34	Peninsula	9/3/1997	37.5	4	2.91	SCI [35-50] random

BCG SampleID	STORET	Station Nickname	Bioregion	Sample Date	SCI	HDG	LDI	Selection Rationale
Pen03	27010580	GROOVRARPT	Peninsula	8/22/2000	24.2	1	1.79	SCI 25th Percentile (24.55)
Pen04	24040117	GULFTST	Peninsula	10/8/1998	14.8	7	7.85	SCI 10th Percentile (14.45)
Pen05	24030044	HILSTP5REF	Peninsula	8/18/1993	55	1	2.12	HDG [1-2] random
Pen06	20010384	LONGBRANCH	Peninsula	7/13/1999	38.2	3	2.53	SCI [35-50] random
Pen07	28010224	NWFRLOXREF	Peninsula	9/20/1995	40.8	4	3.87	SCI 50th Percentile (40.81)
Pen08	25020014	OAKREF	Peninsula	8/22/1995	58.3	1	2.1	SCI 75th Percentile (58.70)
Pen09	20020145	SWEETCK	Peninsula	8/10/1998	21.1	2	1.3	Random
Pen10	20020420	WGCITREF	Peninsula	12/1/1992	0	7	8.32	HDG [6-9] random

Data Content

Data provided for each sample, whether for reference samples or samples for BCG scoring, consisted only of the biological data for each sample and an identification of the sample to the Bioregion of its collection. Other data regarding the sample and site (e.g., more specific location, collection date, information on physical/chemical characteristics, human disturbance metrics such as LDI, hydrologic alteration) were not provided to the experts, but were available for analysis with the scoring data from the workshop.

Biological data that were provided for each sample were retrieved from the FDEP Statewide Biological database (SBIO). Those data included the collapsed taxa list with the number of individuals of each taxon counted in that sample and a suite of metrics. Details regarding the SBIO taxa collapsing procedure are provided in the SBIO database manual (Wolfe and Lurding, 1999: p. 84, and Appendix 2). Frydenborg and Miller, 2007 (Attachment C) provides a copy of each sample sheet of the taxa list and metrics that was provided to experts, a copy of a list of synonyms that was provided to assist in their review of the taxa list, and a copy of the sample scoring sheet.

Results

Each expert provided a BCG score for each site sample **(Table H-3)** and an assessment of the interpretation that should be applied to each BCG score (e.g., meets designated use, does not meet designated use; **Table H-4**). In several cases, experts reported a “gray” area in the relevance they ascribed to their BCG scores. Several experts identified BCG scores they judged as clearly meeting designated use, those they judged as clearly not meeting designated use, and left a gap between those scores signifying their uncertainty about where such a line could be

drawn. Responses were unanimous that a BCG score of 3 or lower (1-3) meets the CWA interim goal for biological integrity and that BCG scores of 5 and 6 do not meet the CWA biological integrity goal. Approximately half the panel thought the impairment threshold occurred between BCG scores of 4 and 5. The other half of the panel wished the impairment line to be drawn between BCG scores of 3 and 4, with many of those panelists expressing the concern that management action may not be taken on sites until they were considered “impaired.”

References

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Table H-3. BCG workshop scores summary

Expert Code	**E01**	**E02**	**E03**	**E04**	**E05**	**E06**	**E07**	**E08**	**E09**	**E10**	**E11**	**E12**	**E13**	**E14**	**E15**	**E16**	**E17**	**E18**	**E19**	**E20**	**E21**	**E22**	**Median BCG Score**	**SCI Score**
BCGSampleID	**Final BCG Score**																							
NE01	3	4	3	4	3	3	3	3	3	4	3	3	4	3	4	3	3	3	3	2	3	4	3	47.1
NE02	5	5	5	5	5	5	5	5	5	5	4	4	5	5	5	5	5	4	4	4	5	5	5	32.9
NE03	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5	5	3	5	5	24.4
NE04	3	4	4	3	4	4	3	4	3	3	3	3	3	3	3	3	3	3	3	3	4	4	3	40.1
NE05	2	1	2	2	2	1	2	2	2	2	2	2	2	1	2	2	2	1	2	1	1	2	2	73.6
NE06	4	5	4	5	3	5	5	5	3	5	5	5	4	5	5	4	4	4	4	5	4	4	5	28.9
NE07	6	6	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	5	6	6	9.1
NE08	3	3	3	2	3	4	5	3	3	3	4	3	2	3	2	3	3	3	3	3	3	3	3	68
NE09	4	4	5	4	5	3	4	4	5	5	4	4	4	4	5	4	4	4	4	4	4	4	4	30.6
NE10	3	3	4	2	3	4	4	3	3	3	2	3	3	3	4	3	3	3	3	3	3	3	3	47
Panh01	5	4	4	5	5	5	5	4	4	4	3	5	4	4	5	4	4	5	4	3	4	4	4	20.7
Panh02	5	4	4	4	5	5	5	5	4	5	4	4	5	5	5	4	5	5	5	4	4	5	5	30
Panh03	2	2	2	2	2	1	2	2	2	2	2	2	2	1	2	2	1	2	2	2	3	1	2	62.5
Panh04	2	2	2	2	2	2	2	2	2	2	2	3	2	1	2	1	1	2	2	2	2	2	2	70.5
Panh05	4	4	3	2	4	4	3	4	3	3	4	3	4	3	3	3	3	3	4	3	3	3	3	43.5
Panh06	3	2	2	2	2	2	2	3	2	2	2	2	3	2	2	2	2	2	2	2	3	2	2	47.7

Expert Code	E01	E02	E03	E04	E05	E06	E07	E08	E09	E10	E11	E12	E13	E14	E15	E16	E17	E18	E19	E20	E21	E22	Median BCG Score	SCI Score
Panh07	5	5	5	5	5	5	5	5	5	5	4	5	5	5	5	5	5	5	5	4	4	5	5	30.2
Panh08	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	5	4	5	5	5	35.8
Panh09	6	6	6	6	5	6	5	6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6	4.6
Panh10	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0.6
Pen01	5	5	6	5	5	6	5	6	5	5	5	5	5	6	5	6	6	5	5	5	6	6	5	15.5
Pen02	3	3	3	4	3	3	3	4	4	4	3	3	4	4	3	4	4	3	4	3	3	3	3	37.5
Pen03	5	4	4	4	5	4	4	4	5	5	4	4	5	5	4	5	4	5	5	4	5	4	4	24.2
Pen04	5	5	5	5	5	5	5	5	5	5	4	5	5	6	5	6	5	5	5	5	5	6	5	14.8
Pen05	3	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	3	3	3	2	2	2	2	55
Pen06	4	4	4	3	5	4	4	4	5	4	4	4	4	5	4	4	4	4	4	4	4	4	4	38.2
Pen07	3	3	2	2	3	3	3	3	3	3	3	3	3	3	4	3	3	3	3	3	3	3	3	40.8
Pen08	2	2	1	1	2	2	2	1	1	2	1	2	1	2	2	2	2	2	2	2	2	2	2	58.3
Pen09	5	5	5	5	5	4	5	6	5	5	5	5	5	5	5	5	5	5	5	5	6	5	5	21.1
Pen10	6	6	6	6	6	5	6	6	6	6	6	5	6	6	6	6	6	6	6	6	6	6	6	0

Table H-4: Experts' categorization of BCG workshop scores

Expert Code:	Not Impaired/ Meets Goal	Gray Area	Does Not Meet Goal/Impaired	Comments
E01	3		4	
E02	3	4	5	
E03	3	Not impaired 3-4, closer to 4, but not below 4	5	
E04	4		5	
E05	4		5	
E06	3		4	
E07	3		4	
E08	3		4	
E09	3		4	
E10	3		4	
E11	3		4	
E12	4		5	
E13	3		4	
E14	4		5	Impairment line 4-5, but concerned that the category 5 sites will not be improved and category 4 sites will slip into category 5 and then may be clumped with the other 5's as "irretrievable"
E15	3		4	
E16	3	line between 4 and 5	5	
E17	3	Impairment Line 4-5, 4 probably meets	5	
E18	4		5	
E19	4		5	
E20	4		5	
E21	4		5	
E22	4		5	

Appendix I. Change Point Analysis of Stream Condition Index and Biological Condition Gradient Data

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Background

For the purpose of scrutinizing Stream Condition Index (SCI) macroinvertebrate data with the goal of refining delineations of biological/ecological condition, Florida Department of Environmental Protection (FDEP) staff conducted a biological condition gradient (BCG) workshop in October 2006 (Frydenborg and Miller, 2007). Participants in the BCG workshop (the panel) consisted of twenty-two (22) experienced aquatic biologists in Florida who agreed to assist FDEP as part of this delineation effort.

During the BCG workshop, the panel was provided with species lists and metrics for 15 reference streams and 30 test samples, equally divided into Florida's three bioregions (Panhandle, Northeast, and Peninsula). The panel was not given the SCI scores associated with any of the sites, or any physical, chemical, or habitat descriptions of the sites (other than the Bioregion location). Decisions were based on biological community composition data collected via the 20-dip net sweep method associated with SCI sampling. The scores (1 through 6) were based on the six tiers of the conceptual biological condition gradient (BCG) from Davies and Jackson, 2006, listed below:

- Score of 1: Native or natural condition
- Score of 2: Minimal loss of species; some density changes may occur
- Score of 3: Some replacement of sensitive-rare species; functions fully maintained
- Score of 4: Some sensitive species maintained but notable replacement by more-tolerant taxa; altered distributions; functions largely maintained
- Score of 5: Tolerant species show increasing dominance; sensitive species are rare; functions altered
- Score of 6: Severe alteration of structure and function

The analyses conducted in this report were based on the results from the BCG workshop (BCG scores for 30 samples by each of 22 panelists) and the SCI scores for those same samples to address FDEP's goal of refining delineations of biological/ecological condition for SCI scores.

The Detection Procedure

Niu et al. (2000) introduced an iterative procedure for detecting and modeling level-shift change points. The procedure is similar to that suggested by Chang (1982) and further developed by Chang et al. (1988) for detecting outliers and level shifts in time series analysis. Statistical details of this procedure can also be found in Pankratz (1991, Chapter 8).

For simplicity, let us consider a response variable *Y*, after an appropriate transformation. Suppose that observations $\{(X_i, Y_i),\ i = 1, 2, \ldots, n\}$ are available where *n* is the sample size and *X* is an independent variable. Moreover, we assume that the observations are arranged in the following manner:

- The values $\{X_i, \quad i = 1, 2, \ldots, n\}$ are distinct. If several $Y_i's$ are corresponding to a single *X* value, the median of the $Y_i's$ is taken to be the response value for the *X* value.
- $\{(X_i, Y_i),\ i = 1, 2, \ldots, n\}$ are sorted according to the values of *X* from least to greatest.

For each integer $l > 1$, define the step variable $S_i(l) = 0$ for $i < l$ and $S_i(l) = 1$ for $i \geq l$.

Step 1. Fit the linear regression model:

$$Y_i = \beta_0(l) + \beta_1(l) S_i(l) + \varepsilon_i(l), \qquad i = 1, 2, \ldots, n, \tag{1}$$

where for a fixed *l*, the $\varepsilon_i(l)'s$ are assumed to be independent and identically distributed normal random variables with mean zero and variance $\sigma^2(l)$.

Step 2. Calculate the values $\{L(l) = \hat{\beta}_1(l) / se(\hat{\beta}_1(l)),\ l = 2, 3, \ldots, (n-1)\}$ where $se(\hat{\beta}_1(l))$ is the estimated standard error of $\hat{\beta}_1(l)$.

Step 3. Let $L(l_1) = \max\{L(2), L(3), \ldots, L(n-1)\}$ and compare $L(l_1)$ with the critical value *C*=3.0 (or *C*=3.5). The critical value *C*=3.0 (or *C*=3.5) corresponds roughly to $\alpha = 0.10$ (or $\alpha = 0.05$), or the 10% (or the 5%) significance level, based on the simulation results of Chang et al. (1988). If $L(l_1)$ is significant, we conclude that the response *Y* has a change point at X_{l_1} with a level-shift $\hat{\beta}_1(l)$.

Step 4. Let $Y_i^* = Y_i - \beta_1(l_1) S_i(l_1)$. Repeat Steps 1-3 on the new response variable Y_i^* for detecting a possible second change point. Continue the process until no further change point can be identified.

Step 5. Suppose that *k* change points are detected in the response variable *Y* and the corresponding *X* values are $\{X_{l_1}, X_{l_2}, \ldots, X_{l_k}\}$. Fit the model

$$Y_i = \beta_0 + \beta_1 S_i(l_1) + \beta_2 S_i(l_2) + \ldots + \beta_k S_i(l_k) + \varepsilon_i, \qquad i = 1, 2, \ldots, n. \tag{2}$$

Then the estimated coefficients $\{\hat{\beta}_1, \hat{\beta}_2, \ldots, \hat{\beta}_k\}$ will be the *k* estimated level-shift values.

Analysis of SCI and BCG Data

Change Point Analysis

Table I-1 contains a list of the SCI values for the 30 samples from the BCG workshop along with their median and mean BCG scores based on the individual scores given by the experts. Change-point analysis of the SCI values was conducted in this report using the median BCG scores as the dependent variable. Median BCG scores rather than mean BCG scores were used to avoid potential outlier problems.

Two change points were detected in the SCI values. The first change point was at SCI=35.8, which has the statistic $L(l_1)$ = 9.79 and is significant at the 5% level (95% confidence). The second change point occurred at SCI=9.1 which has the statistic $L(l_1)$ = 3.87 and is also significant at the 5% level (95% confidence). The R-square of the regression is 0.86, indicating that the step-function regression model fits the median BCG scores very well.

Table I-1. SCI and BCG scores for the 30 Samples

STORET Station	Sample Date	SCI Score	BCG Median Score	BCG Mean Score
20030549	3/6/1996	73.6	2	1.7
31020071	7/23/1996	70.5	2	1.9
19010073	3/22/1999	68	3	3
31010125	10/13/1998	62.5	2	1.9
25020014	8/22/1995	58.3	2	1.7
24030044	8/18/1993	55	2	2.2
33010112	2/16/1999	47.7	2	2.2
19020027	4/11/2001	47.1	3	3.2
19020059	10/28/1996	47	3	3.1
31020072	7/23/1996	43.5	3	3.3
28010224	9/20/1995	40.8	3	3
19020053	9/24/2001	40.1	3	3.3
20010384	7/13/1999	38.2	4	4.1
25020550	9/3/1997	37.5	3	3.4
31020043	9/1/1992	35.8	5	5
19010049	2/14/2000	32.9	5	4.8
20030573	1/26/1998	30.6	4	4.2
31020042	9/1/1992	30.2	5	4.9
33040073	8/22/2000	30	5	4.6
20030332	5/5/1992	28.9	4.5	4.4
19020053	9/24/2001	24.4	5	4.8
27010580	8/22/2000	24.2	4	4.5
20020145	8/10/1998	21.1	5	5
22020078	6/4/1996	20.7	4	4.3

STORET Station	Sample Date	SCI Score	BCG Median Score	BCG Mean Score
20030585	9/8/1998	15.5	5	5.4
24040117	10/8/1998	14.8	5	5.1
21030059	9/15/1992	9.1	6	5.9
22030064	3/8/1993	4.6	6	5.9
22050003	4/10/2000	0.6	6	6
20020420	12/1/1992	0	6	5.9

Change Points: 1). SCI=35.8 with the test statistic of 9.79 and confidence level > 95%;
2). SCI=9.1 with the test statistic of 3.87 and confidence level > 95%.
Highlighted numbers are the SCI-BCG Scores at the change points.

Confidence Intervals for the Change Points

In this section, we constructed confidence intervals for the detected change points based on a *modified* bootstrapping method. "Regular" bootstrapping is a statistical method for estimating the sampling distribution of an estimator by resampling with replacement from the original sample (Efron, 1979; Efron and Tibshirani, 1993). This method is widely used in parameter estimation, regression, time series, and other statistical problems.

In regression analysis, there are two basic approaches to perform bootstrapping. The first approach is bootstrapping cases. Assume that we want to fit a regression model with response variable *Y* and predictors $\{x_1, \ldots, \ldots x_p\}$, and we have a sample of *n* cases $\{Z_i = (Y_i, x_{1i}, \ldots, \ldots x_{pi}), i = 1, \ldots, n\}$. In bootstrapping, we select *n* cases randomly from the original observations with replacement. For each bootstrapping sample, we fit the regression model and save the coefficients. Confidence intervals for the regression coefficients can be constructed based on *M* (a given large number) bootstrapping samples. The second approach in bootstrapping regression analysis is resampling the residuals. In this way a regression model is fitted to the original data first. The fitted values and residuals are calculated based on the fitted model. The residuals are randomly resampled and added back to the fitted values. After generating a new set of bootstrapping data, the regression model is refitted.

Efron and Tibshirani (1993, Chapter 9, p. 113) pointed out that bootstrapping cases is less sensitive to model assumptions such as normality and constant variance than bootstrapping residuals. In this study, the bootstrapping cases method was used to construct confidence intervals for change points.

There are several approaches to constructing bootstrap confidence intervals for change points. The bootstrap percentile interval approach was used in this study. This approach uses the empirical quantiles of $\hat{\theta}$ to form a confidence interval $[\hat{\theta}^*_{Lower}, \hat{\theta}^*_{Upper}]$ for the change point θ, where $\{\hat{\theta}_{(1)}{}^*, \hat{\theta}_{(2)}{}^*, \ldots, \hat{\theta}_{(M)}{}^*\}$ are the ordered bootstrap estimates of the change point; $\hat{\theta}^*_{Lower}$ and $\hat{\theta}^*_{Upper}$ are the α/2 percentile and the (1 − α/2) percentile of the bootstrap estimates of the change point, respectively.

For this analysis, we had 30 pairs of SCI and Median BCG Scores. We used a modified bootstrapping method to construct confidence intervals for the change points. Specifically, we

first randomly drew 90% of the 30 pairs (or dropped 10%) from the original data and conducted change-point analysis. This procedure is also called the *drop-d Jackknife method* in statistics (Efron and Tibshirani, 1993, Page 149). Three thousand (3,000) samples were drawn from the original data, and the results are presented in Table I-2. For the first change point at SCI=35.8, the 90% and 95% confidence intervals based on the percentiles of the 3,000 estimated change points were identical.

Table I-2. Confidence Intervals (CI) for the change points of SCI scores based on *M*=3,000 drop-10% samples.

	First Change Points	Second Change Points
SCI Based on Original Data	35.8	9.1
SCI Based on Average of drop-10% Estimates	35.8	8.8
SCI Based on Median of drop-10% Estimates	35.8	9.1
Standard Error of the Change Point	1.6	2.7
SCI Percentile Interval, 95% CI	[32.9, 38.2]	[4.6, 13.4]
SCI Percentile Interval, 90% CI	[32.9, 38.2]	[4.6, 12.0]

Summary

This change-point analysis was conducted for the purpose of addressing FDEP's goal of refining delineations of biological/ecological condition for Stream Condition Index (SCI) scores. The BCG (biological condition gradient) scores that were used to evaluate changes in SCI scores were provided by a panel of 22 experienced aquatic biologists in Florida. The results of this change-point analysis indicated a first change point at SCI=35.8, with the 95% confidence interval [32.9, 38.2]. In other words, SCI scores higher (better) than 35.8 were determined to be different from lower scores based on the biological condition assigned to taxonomic data for the samples by experienced aquatic biologists. Additional details of the BCG workshop and the change-point analysis are provided in Frydenborg and Miller, 2007 and Niu and Miller, 2007, respectively.

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Appendix J. Reference sites

Table J-1. Reference site locations.

STORET	Site Description	Bioregion	Waterbody Name	Facility Information from GIS Coverages	Latitude			Longitude		
					Deg	Min	Sec	Deg	Min	Sec
20030245	Ates Creek @ CR 315	Northeast	BLACK CREEK	No point sources or stormwater inputs upstream	29	54	38	81	53	5
20030437	BLACK CR., NORTH PRONG, 1/4 ABOVE BIG BRANCH	Northeast	BLACK CREEK	One large stormwater constructin permit upstream, possibly connected through wetlands issued in 6/2005.	30	6	48.13	81	54	23.34
20030419	Black Creek, South Prong	Northeast	BLACK CREEK	Camp blanding is upstream of this site	29	56	3.15	81	55	9.63
20030723	N. FORK BLACK CRK ABOVE CARTER SPENCER RD.	Northeast	BLACK CREEK	Dupont Highland Mine facility discharges, but this site is above this.	30	4	9.2	81	58	43.9
20030247	South Fork Black Creek @ SR 16	Northeast	BLACK CREEK	No point sources or stormwater inputs upstream	29	58	45	81	51	10
20030570	Bradley Crk @ 739B-Peter's crk basin	Northeast	BRADLEY CREEK	Subdivision (Silver Creek) stormwater permits (2003 &2005), discharge may flow towards this site.	30	2	48.8	81	47	5.5
20030487	Bull Creek @ NE Crossing of CR 215	Northeast	BULL CREEK	No point sources or stormwater inputs upstream	30	2	3.2	81	54	6.8
19010042	Calkins Ck, off Hamp Register Rd.	Northeast	CALKINS CREEK	No point sources or stormwater inputs upstream	30	19	50.95	82	14	30.47
21010043	Deep Creek upstream of bridge @Old River Rd	Northeast	DEEP CREEK	No point sources or stormwater inputs upstream	30	22	35.7	82	38	16.1
21010018	Falling Creek @ CR 131, above falls Suwannee R.	Northeast	FALLING CREEK	KOA Domestic WWTF ~3000 m upstream of site, not NPDES permitted, design capacity = 0.0150. Not NPDES permitted, and small design capacity likely means that this is a percolation pond. District Biologist is not aware of a KOA discharge in this area.	30	15	39.47	82	40	5.19
19010064	John Rowe Br, test site for NE FL State Hosp FYI	Northeast	JOHN ROWE BRANCH	No point sources or stormwater inputs upstream; The hospital doesn't show up as permitted site on the GIS coverage	30	13	47.4	82	8	16.4

STORET	Site Description	Bioregion	Waterbody Name	Facility Information from GIS Coverages	Latitude			Longitude		
					Deg	Min	Sec	Deg	Min	Sec
20030571	Peter's Crk above Rosemary hill Rd- Basin	Northeast	PETERS CREEK	Clay Co. Dept. of Env. Services has 2 stormwater permits right at the site and 2 stormwater outfall sites	30	0	25.9	81	44	55.4
19010099	Pigeon Creek at US 1 St. Marys-Nassau River	Northeast	PIGEON CREEK	No point sources or stormwater inputs upstream	30	45	40.73	81	58	3.07
21010056	PCS Phosphate FYI5, control site	Northeast	ROBINSON CREEK	No point sources or stormwater inputs upstream	30	19	14	82	39	44.1
21010032	Rocky Ck @ Woodpecker Rd	Northeast	ROCKY CREEK	No point sources or stormwater inputs upstream	30	32	40.27	82	44	1.91
20030265	Sal Taylor Creek below Rowell Creek	Northeast	SAL TAYLOR CREEK	One large stormwater constructin permit above these sites issued in 12/2004.	30	11	59	81	54	50
21030115	Santa Fe Rv- Control A BMP	Northeast	SANTA FE RIVER	A few stormwater permits pretty far upstream	29	50	46.9	82	12	13.8
20030456	Thomas Ck, Forestry BMP Study Ref Site B	Northeast	THOMAS CREEK	No point sources or stormwater inputs upstream	29	54	57.6	81	51	44.9
19010072	McClenny WWTP upstream	Northeast	TURKEY CREEK	A few stormwater permits around, look to be small and may not actually discharge to this stream	30	16	6.4	82	7	34.9
20030341	Yellow Water Creek above Sal Taylor Creek	Northeast	YELLOW WATER CREEK	One large stormwater constructin permit above these sites issued in 12/2004.	30	12	3.2	81	55	10.35
20030342	Yellow Water Creek below Sal Taylor Creek	Northeast	YELLOW WATER CREEK	One large stormwater constructin permit above these sites issued in 12/2004.	30	11	44.45	81	55	5.8
22020070	BIG CYPRESS BRANCH-TIMBER ENERGY FYI CNTRL SITE	Panhandle	BIG CYPRESS BRANCH	No point sources or stormwater inputs upstream	30	19	0	84	48	0
33040014	BIG HORSE CREEK S.R.2 OKA.CO.	Panhandle	BIG HORSE CREEK	No point sources or stormwater inputs upstream	30	55	19.3	86	35	42.6
21030064	Cedar Head Run, above Ichetucknee River	Panhandle	CEDAR HEAD RUN	Ichetucknee Family Campground WWTF upstream of site, not NPDES permitted (?), design capacity=0.007. Subsequent additional information indicates no discharge. Stream begins in State Park.	29	58	50.2	82	45	30.92
31010050	CROOKED CREEK HWY.270 GADSDEN CO.	Panhandle	CROOKED CREEK	No point sources or stormwater inputs upstream	30	34	59.79	84	52	51.49

STORET	Site Description	Bioregion	Waterbody Name	Facility Information from GIS Coverages	Latitude			Longitude		
					Deg	Min	Sec	Deg	Min	Sec
32030023	ECONFINA CREEK AT SCOTT RD	Panhandle	ECONFINA CREEK	No point sources or stormwater inputs upstream	30	33	19.3	85	26	6
22050077	Econfina River Forestry BMP Study Ref Site B	Panhandle	ECONFINA RIVER	No point sources or stormwater inputs upstream	30	9	52.8	83	50	14.6
33040064	Jacks Branch, Forestry BMP Study Ref Site B	Panhandle	JACK'S BRANCH	No point sources or stormwater inputs upstream	30	52	10.3	86	29	21.7
32010024	Limestone Ck @ Beckridge Rd	Panhandle	LIMESTONE CREEK	No point sources or stormwater inputs upstream	30	59	21.58	86	5	9.81
32020063	LITTLE CROOKED CREEK S.R.79 BAY CO.	Panhandle	LTL CROOKED CREEK	No point sources or stormwater inputs upstream	30	24	48.4	85	52	6.5
22030062	MCBRIDE SLOUGH HWY.267 WAKULLA CO.	Panhandle	MCBRIDE SLOUGH	No point sources or stormwater inputs upstream	30	14	10	84	16	20
33010054	MCDAVID CREEK AT SR 99	Panhandle	MCDAVID CREEK	No point sources or stormwater inputs upstream	30	44	21.6	87	26	54.8
22020049	MULE CREEK S.R.12 LIBERTY CO.	Panhandle	MULE CREEK	No point sources or stormwater inputs upstream	30	30	43.55	84	49	44.1
22020062	Oklawaha Ck, SR 267, S of Quincy	Panhandle	OKLAWAHA CREEK	Sand mine operations (permitted IWF's). Subsequent additional information indicates no discharge to sampled site.	30	27	2.18	84	38	36.89
31020073	Pitts Mill Creek above conf with Cypress Ck	Panhandle	PITTS MILL CREEK	No point sources or stormwater inputs upstream	30	16	43.9	85	14	23.6
22020010	QUINCY CR above SR12, ref for Quincy STP FYI	Panhandle	QUINCY CREEK	Engelhard IWF upstream and numerous other small IWF's just S that may/may not flow towards this site. Subsequent additional information indicates no discharge to site except maybe during hurricanes.	30	35	34.6	84	33	50.3
22030010	St. Marks R approx 4 mi N of Hwy 98 (@ "rapids")	Panhandle	ST. MARKS RIVER	No point sources or stormwater inputs upstream	30	14	24.8	84	8	43.4
31010051	SWEETWATER CREEK HWY.270 LIBERTY CO.	Panhandle	SWEETWATER CREEK	No point sources or stormwater inputs upstream	30	31	26.68	84	58	25.15

STORET	Site Description	Bioregion	Waterbody Name	Facility Information from GIS Coverages	Latitude			Longitude		
					Deg	Min	Sec	Deg	Min	Sec
31020040	TEN MILE CREEK S.R.73 CALHOUN CO.	Panhandle	TEN MILE CREEK	One small WWTP and one Industrial Wastewater permitted facility upstream; Stormwater construction at sampling point. WW facilities at least 1.5 to 2 km upstream. Additional subsequent information from District Biologist is that site is appropriate for reference.	30	30	1.27	85	12	1.91
33010065	Rest Area Run Creek below I 10	Panhandle	UNNAMED CREEK	Surrounded by stormwater construction, potential inputs from Perdido landfill upstream. Subsequent additional information from District Biologist is that this site was reference at the time relevant to the SCI sampling for the calibration dataset.	30	34	5.4	87	24	10.6
22040038	Unnamed Creek above Monticello WWTP	Panhandle	UNNAMED CREEK	A few stormwater permits around, look to be small and may not actually discharge to this stream	30	30	59.5	83	51	25.3
32020066	Wright Ck, ref for Noma STP FYI	Panhandle	WRIGHTS CREEK	Site is upstream of Noma WWTP	30	58	47.7	85	35	54.4
20010455	BLACKWATER CREEK AT HWY 44A	Peninsula	BLACKWATER CREEK	No point sources or stormwater inputs upstream	28	52	38.96	81	29	19.91
28020239	Cypress brch above SR 78	Peninsula	CYPRESS BRANCH	No point sources or stormwater inputs upstream	26	48	49	81	20	7
28020237	Cypress Creek 2 mi above SR78	Peninsula	CYPRESS CREEK	Small stormwater construction permit for Wayne Homes; permit started in 9/2004	26	45	5	81	37	14
26010972	DAVENPORT CR AT SR 545 BRIDGE	Peninsula	DAVENPORT CREEK	Gas pipeline relocation stormwater permit started in 2/2005	28	16	15.2	81	35	28.06
26010593	FISHEATING CREEK ABOVE US 27	Peninsula	FISHEATING CREEK	Lykes Campground WWTF nearby, not NPDES permitted (?); Depending on flow direction could impact site. Subsequent additional information indicates that site is upstream from campground.	26	56	12	81	19	34
20030414	GOLD HEAD BR. IN STATE PARK	Peninsula	GOLD HEAD BRANCH	No point sources or stormwater inputs upstream	29	49	56.03	81	56	46.64
24030142	Hillsborough R upstrm of Southside Br, Zephyrhil	Peninsula	HILLSBOROUGH RIVER	Zephyrhills WWTF upstream of site, but can't determine where outfall is. Lots of monitoring wells around. Subsequent additional information indicates probably a percolation pond. No discharge to the site - the site was just visited.	28	11	8.4	82	10	30.9

STORET	Site Description	Bioregion	Waterbody Name	Facility Information from GIS Coverages	Latitude			Longitude		
					Deg	Min	Sec	Deg	Min	Sec
24030048	Hillsborough River at SR 39	Peninsula	HILLSBOROUGH RIVER	Zephyrhills WWTF upstream of site, but can't determine where outfall is. Lots of monitoring wells around. Subsequent additional information indicates no discharge to the site - the site was just visited.	28	11	38.7	82	10	2.8
25020111	Horse Creek @ SR 72 Bridge	Peninsula	HORSE CREEK	No point sources or stormwater inputs upstream	27	11	59.91	81	59	15.28
20010454	JUNIPER CREEK AT HIGHWAY 19	Peninsula	JUNIPER CREEK	No point sources or stormwater inputs upstream	29	12	49.41	81	39	17.5
20020004	Little Orange Creek @ Hwy 21	Peninsula	LITTLE ORANGE CREEK	Ga Pacific-Hawthorne Plywood STW discharges upstream, but may flow into Little Orange Lake. Subsequent additional information indicates no discharge to the stream.	29	32	28.42	81	57	16.67
26011019	LIVINGSTON CREEK AT RUCKS DAIRY RD.	Peninsula	LIVINGSTON CREEK	No point sources or stormwater inputs upstream	27	42	29.61	81	26	49.02
28010223	N FK LOXAHATCHEE RIVER REF BIO STATION	Peninsula	LOXAHATCHEE RIVER	No point sources or stormwater inputs upstream	27	0	4.76	80	6	58.48
24010002	Manatee R 20 m below SR64 bridge (TP1)	Peninsula	MANATEE RIVER	Wingate Creek Mine flows SE into Johnson Crk	27	28	24.14	82	12	39.48
20020012	OKLAWAHA RIVER AT SR 316	Peninsula	OKLAWAHA RIVER	No point sources or stormwater inputs upstream	29	22	24.34	81	54	6.35
20020404	ORANGE CREEK 50 YDS. UP FROM HWY. 21	Peninsula	ORANGE CREEK	Water bottling facility (IWF) right at the sampling lat/longs. Subsequent additional information from DEP Bureau of Labs staff is that sampling trips in this area indicate that the IWF facility is located downstream of this site.	29	30	33.44	81	56	47.8
20030253	RICECR #3@BR SR #3/250yds above Bardine	Peninsula	RICE CREEK	No point sources or stormwater inputs upstream	29	41	34	81	43	27
20020317	SILVER RUN AT CONFLUENCE WITH BOAT RAMP CANAL	Peninsula	SILVER RUN	One small WWTP (Sharpes Ferry Mobile Home Park) permitted facility upstream, design capacity = 0.0190. Subsequent additional information indicates the site is upstream of any discharge.	29	12	35.7	81	59	36
28020221	TELEGRAPH CREEK AT BABCOCK RANCH	Peninsula	TELEGRAPH CREEK	One large stormwater construction nearby (permitted 3/2005), but flows into Big Island Canal which is also the receiving water for Telegraph Creek	26	44	54.4	81	40	13.2

STORET	Site Description	Bioregion	Waterbody Name	Facility Information from GIS Coverages	Latitude			Longitude		
					Deg	Min	Sec	Deg	Min	Sec
26011020	TIGER CREEK AT WALKING WATERS RD.	Peninsula	TIGER CREEK	No point sources or stormwater inputs upstream	27	48	43.53	81	26	38.63
23010464	Withlacoochee R @ county park off Auton Rd (TP3)	Peninsula	WITHLACOOCHEE RIVER	Small stormwater construction permit for bike trail; permit started in 4/2005	28	21	0	82	7	28.2
23010446	WITHLACOOCHEE RIVER	Peninsula	WITHLACOOCHEE RIVER	No point sources or stormwater inputs upstream; site below WITHREF	28	18	13.9	82	4	0.1

Table J-2. Reference sites sample data

STORET	Site Description	Bioregion	Waterbody Name	SCI	HDG	LDI	Total # individuals counted	Sample Date
20030245	Ates Creek @ CR 315	Northeast	BLACK CREEK	75.8	0	1.2	153	4/17/1997
20030437	BLACK CR., NORTH PRONG, 1/4 ABOVE BIG BRANCH	Northeast	BLACK CREEK	56.1	0	1.2	103	8/1/1995
20030437	BLACK CR., NORTH PRONG, 1/4 ABOVE BIG BRANCH	Northeast	BLACK CREEK	57.7	0	1.2	108	8/8/2000
20030437	BLACK CR., NORTH PRONG, 1/4 ABOVE BIG BRANCH	Northeast	BLACK CREEK	66.9	0	1.2	117	8/8/2000
20030437	BLACK CR., NORTH PRONG, 1/4 ABOVE BIG BRANCH	Northeast	BLACK CREEK	71.5	0	1.2	122	1/30/1996
20030437	BLACK CR., NORTH PRONG, 1/4 ABOVE BIG BRANCH	Northeast	BLACK CREEK	67.3	0	1.2	123	7/20/1994
20030419	Black Creek, South Prong	Northeast	BLACK CREEK	68.4	0	1.4	103	1/24/1995
20030419	Black Creek, South Prong	Northeast	BLACK CREEK	64.3	0	1.4	106	7/20/1994
20030419	Black Creek, South Prong	Northeast	BLACK CREEK	79.3	0	1.4	106	3/20/1997
20030419	Black Creek, South Prong	Northeast	BLACK CREEK	66.1	0	1.4	119	7/11/2000
20030419	Black Creek, South Prong	Northeast	BLACK CREEK	81.3	0	1.4	150	7/7/1998
20030723	N. FORK BLACK CRK ABOVE CARTER SPENCER RD.	Northeast	BLACK CREEK	43.4	0	1.2	108	7/12/1999
20030247	South Fork Black Creek @ SR 16	Northeast	BLACK CREEK	90.2	0	1.1	123	4/17/1997
20030570	Bradley Crk @ 739B-Peter's crk basin	Northeast	BRADLEY CREEK	85.1	0	1.3	144	1/28/1998
20030487	Bull Creek @ NE Crossing of CR 215	Northeast	BULL CREEK	63.9	0	1.2	164	4/17/1997
19010042	Calkins Ck, off Hamp Register Rd.	Northeast	CALKINS CREEK	75.7	0	1.2	102	8/3/1994
19010042	Calkins Ck, off Hamp Register Rd.	Northeast	CALKINS CREEK	80.4	0	1.2	108	11/1/1994
19010042	Calkins Ck, off Hamp Register Rd.	Northeast	CALKINS CREEK	50.0	0	1.2	114	7/10/2001
21010043	Deep Creek upstream of bridge @Old River Rd	Northeast	DEEP CREEK	66.9	0	1.4	101	11/10/1997
21010018	Falling Creek @ CR 131, above falls Suwannee R.	Northeast	FALLING CREEK	51.5	0	1.4	112	7/12/1994
21010018	Falling Creek @ CR 131, above falls Suwannee R.	Northeast	FALLING CREEK	77.9	0	1.4	126	7/17/1997
21010018	Falling Creek @ CR 131, above falls Suwannee R.	Northeast	FALLING CREEK	39.0	0	1.4	132	7/27/1999
21010018	Falling Creek @ CR 131, above falls Suwannee R.	Northeast	FALLING CREEK	42.7	0	1.4	160	2/8/1994
21010018	Falling Creek @ CR 131, above falls Suwannee R.	Northeast	FALLING CREEK	87.8	0	1.4	161	1/4/1995
19010064	John Rowe Br, test site for NE FL State Hosp FYI	Northeast	JOHN ROWE BRANCH	62.7	0	1.8	142	11/1/1994
20030571	Peter's Crk above Rosemary hill Rd- Basin	Northeast	PETERS CREEK	89.0	0	1.2	110	1/26/1998

STORET	Site Description	Bioregion	Waterbody Name	SCI	HDG	LDI	Total # individuals counted	Sample Date
19010099	Pigeon Creek at US 1 St. Marys-Nassau River	Northeast	PIGEON CREEK	78.8	0	1.3	105	3/7/1994
19010099	Pigeon Creek at US 1 St. Marys-Nassau River	Northeast	PIGEON CREEK	76.8	0	1.3	108	7/25/1994
19010099	Pigeon Creek at US 1 St. Marys-Nassau River	Northeast	PIGEON CREEK	78.9	0	1.3	109	3/6/1995
19010099	Pigeon Creek at US 1 St. Marys-Nassau River	Northeast	PIGEON CREEK	58.0	0	1.3	111	2/1/2000
19010099	Pigeon Creek at US 1 St. Marys-Nassau River	Northeast	PIGEON CREEK	83.5	0	1.3	156	3/3/1993
19010099	Pigeon Creek at US 1 St. Marys-Nassau River	Northeast	PIGEON CREEK	54.8	0	1.3	157	7/9/1996
21010056	PCS Phosphate FYI5, control site	Northeast	ROBINSON CREEK	79.2	0	1.4	113	3/13/2000
21010032	Rocky Ck @ Woodpecker Rd	Northeast	ROCKY CREEK	56.7	0	1.2	152	8/24/1994
20030265	Sal Taylor Creek below Rowell Creek	Northeast	SAL TAYLOR CREEK	68.6	0	1.8	138	3/5/1996
20030265	Sal Taylor Creek below Rowell Creek	Northeast	SAL TAYLOR CREEK	35.1	0	1.8	146	10/2/1995
21030115	Santa Fe Rv- Control A BMP	Northeast	SANTA FE RIVER	75.7	0	1.5	148	11/6/1998
20030456	Thomas Ck, Forestry BMP Study Ref Site B	Northeast	THOMAS CREEK	75.7	0	1.2	118	7/2/1997
20030456	Thomas Ck, Forestry BMP Study Ref Site B	Northeast	THOMAS CREEK	82.6	0	1.2	128	2/12/1998
20030456	Thomas Ck, Forestry BMP Study Ref Site B	Northeast	THOMAS CREEK	92.4	0	1.2	129	3/14/1996
20030456	Thomas Ck, Forestry BMP Study Ref Site B	Northeast	THOMAS CREEK	86.7	0	1.2	159	2/21/1997
19010072	McClenny WWTP upstream	Northeast	TURKEY CREEK	78.2	0	1.6	160	3/22/1999
20030341	Yellow Water Creek above Sal Taylor Creek	Northeast	YELLOW WATER CREEK	70.4	0	1.9	107	3/5/1996
20030341	Yellow Water Creek above Sal Taylor Creek	Northeast	YELLOW WATER CREEK	66.4	0	1.9	147	10/2/1995
20030342	Yellow Water Creek below Sal Taylor Creek	Northeast	YELLOW WATER CREEK	43.5	0	1.8	103	10/2/1995
20030342	Yellow Water Creek below Sal Taylor Creek	Northeast	YELLOW WATER CREEK	74.8	0	1.8	166	3/5/1996
22020070	BIG CYPRESS BRANCH-TIMBER ENERGY FYI CNTRL SITE	Panhandle	BIG CYPRESS BRANCH	53.6	0	1.3	125	8/9/1999
33040014	BIG HORSE CREEK S.R.2 OKA.CO.	Panhandle	BIG HORSE CREEK	67.4	0	1.2	114	7/15/1996
33040014	BIG HORSE CREEK S.R.2 OKA.CO.	Panhandle	BIG HORSE CREEK	41.7	0	1.2	119	2/17/1993
33040014	BIG HORSE CREEK S.R.2 OKA.CO.	Panhandle	BIG HORSE CREEK	78.4	0	1.2	126	1/30/1995
33040014	BIG HORSE CREEK S.R.2 OKA.CO.	Panhandle	BIG HORSE CREEK	75.3	0	1.2	148	2/8/2001
33040014	BIG HORSE CREEK S.R.2 OKA.CO.	Panhandle	BIG HORSE CREEK	67.0	0	1.2	154	8/23/1994
33040014	BIG HORSE CREEK S.R.2 OKA.CO.	Panhandle	BIG HORSE CREEK	96.3	0	1.2	173	7/15/1998
21030064	Cedar Head Run, above Ichetucknee River	Panhandle	CEDAR HEAD RUN	42.2	0	1.0	100	8/1/1994
21030064	Cedar Head Run, above Ichetucknee River	Panhandle	CEDAR HEAD RUN	40.6	0	1.0	105	2/1/1995

STORET	Site Description	Bioregion	Waterbody Name	SCI	HDG	LDI	Total # individuals counted	Sample Date
21030064	Cedar Head Run, above Ichetucknee River	Panhandle	CEDAR HEAD RUN	46.2	0	1.0	108	2/6/1996
21030064	Cedar Head Run, above Ichetucknee River	Panhandle	CEDAR HEAD RUN	69.4	0	1.0	111	3/15/2000
31010050	CROOKED CREEK HWY.270 GADSDEN CO.	Panhandle	CROOKED CREEK	71.1	0	1.1	108	2/13/1995
31010050	CROOKED CREEK HWY.270 GADSDEN CO.	Panhandle	CROOKED CREEK	58.5	0	1.1	132	3/25/1993
31010050	CROOKED CREEK HWY.270 GADSDEN CO.	Panhandle	CROOKED CREEK	84.8	0	1.1	151	7/9/1996
32030023	ECONFINA CREEK AT SCOTT RD	Panhandle	ECONFINA CREEK	68.2	0	1.2	102	2/7/1995
32030023	ECONFINA CREEK AT SCOTT RD	Panhandle	ECONFINA CREEK	70.4	0	1.2	106	8/25/1992
32030023	ECONFINA CREEK AT SCOTT RD	Panhandle	ECONFINA CREEK	62.3	0	1.2	124	2/6/2001
32030023	ECONFINA CREEK AT SCOTT RD	Panhandle	ECONFINA CREEK	81.3	0	1.2	151	6/28/1993
32030023	ECONFINA CREEK AT SCOTT RD	Panhandle	ECONFINA CREEK	87.9	0	1.2	162	2/5/1997
22050077	Econfina River Forestry BMP Study Ref Site B	Panhandle	ECONFINA RIVER	59.8	0	1.1	135	5/13/1998
33040064	Jacks Branch, Forestry BMP Study Ref Site B	Panhandle	JACK'S BRANCH	63.4	0	1.7	111	2/22/1996
33040064	Jacks Branch, Forestry BMP Study Ref Site B	Panhandle	JACK'S BRANCH	63.6	0	1.7	140	2/25/1997
33040064	Jacks Branch, Forestry BMP Study Ref Site B	Panhandle	JACK'S BRANCH	66.9	0	1.7	173	7/1/1998
32010024	Limestone Ck @ Beckridge Rd	Panhandle	LIMESTONE CREEK	74.5	0	1.3	171	7/14/1998
32020063	LITTLE CROOKED CREEK S.R.79 BAY CO.	Panhandle	LTL CROOKED CREEK	78.6	0	1.2	100	1/21/1999
32020063	LITTLE CROOKED CREEK S.R.79 BAY CO.	Panhandle	LTL CROOKED CREEK	67.4	0	1.2	113	2/9/1995
32020063	LITTLE CROOKED CREEK S.R.79 BAY CO.	Panhandle	LTL CROOKED CREEK	62.3	0	1.2	116	8/30/1994
32020063	LITTLE CROOKED CREEK S.R.79 BAY CO.	Panhandle	LTL CROOKED CREEK	71.5	0	1.2	126	6/29/1993
32020063	LITTLE CROOKED CREEK S.R.79 BAY CO.	Panhandle	LTL CROOKED CREEK	72.6	0	1.2	129	2/23/1994
32020063	LITTLE CROOKED CREEK S.R.79 BAY CO.	Panhandle	LTL CROOKED CREEK	80.1	0	1.2	153	7/16/1996
32020063	LITTLE CROOKED CREEK S.R.79 BAY CO.	Panhandle	LTL CROOKED CREEK	52.7	0	1.2	156	3/1/1993
22030062	MCBRIDE SLOUGH HWY.267 WAKULLA CO.	Panhandle	MCBRIDE SLOUGH	41.6	0	1.0	112	7/8/1992
22030062	MCBRIDE SLOUGH HWY.267 WAKULLA CO.	Panhandle	MCBRIDE SLOUGH	60.2	0	1.0	138	3/21/1994
22030062	MCBRIDE SLOUGH HWY.267 WAKULLA CO.	Panhandle	MCBRIDE SLOUGH	57.3	0	1.0	147	2/11/1997
33010054	MCDAVID CREEK AT SR 99	Panhandle	MCDAVID CREEK	73.2	0	1.3	101	1/24/1995
33010054	MCDAVID CREEK AT SR 99	Panhandle	MCDAVID CREEK	75.6	0	1.3	115	2/22/2001
33010054	MCDAVID CREEK AT SR 99	Panhandle	MCDAVID CREEK	68.7	0	1.3	118	2/18/1993
33010054	MCDAVID CREEK AT SR 99	Panhandle	MCDAVID CREEK	48.5	0	1.3	126	8/10/1994

STORET	Site Description	Bioregion	Waterbody Name	SCI	HDG	LDI	Total # individuals counted	Sample Date
33010054	MCDAVID CREEK AT SR 99	Panhandle	MCDAVID CREEK	70.2	0	1.3	127	8/12/1997
33010054	MCDAVID CREEK AT SR 99	Panhandle	MCDAVID CREEK	76.9	0	1.3	141	8/17/1992
33010054	MCDAVID CREEK AT SR 99	Panhandle	MCDAVID CREEK	88.7	0	1.3	173	2/14/1994
22020049	MULE CREEK S.R.12 LIBERTY CO.	Panhandle	MULE CREEK	49.9	0	1.2	104	3/25/1993
22020049	MULE CREEK S.R.12 LIBERTY CO.	Panhandle	MULE CREEK	65.7	0	1.2	106	2/13/1995
22020049	MULE CREEK S.R.12 LIBERTY CO.	Panhandle	MULE CREEK	57.7	0	1.2	112	2/23/1999
22020049	MULE CREEK S.R.12 LIBERTY CO.	Panhandle	MULE CREEK	58.6	0	1.2	114	7/8/1992
22020049	MULE CREEK S.R.12 LIBERTY CO.	Panhandle	MULE CREEK	67.8	0	1.2	125	7/9/1996
22020062	Oklawaha Ck, SR 267, S of Quincy	Panhandle	OKLAWAHA CREEK	52.0	0	1.1	100	9/9/1998
22020062	Oklawaha Ck, SR 267, S of Quincy	Panhandle	OKLAWAHA CREEK	41.8	0	1.1	101	8/1/1994
22020062	Oklawaha Ck, SR 267, S of Quincy	Panhandle	OKLAWAHA CREEK	45.2	0	1.1	105	8/12/1997
22020062	Oklawaha Ck, SR 267, S of Quincy	Panhandle	OKLAWAHA CREEK	48.3	0	1.1	108	2/13/1995
22020062	Oklawaha Ck, SR 267, S of Quincy	Panhandle	OKLAWAHA CREEK	82.9	0	1.1	147	2/13/1996
31020073	Pitts Mill Creek above conf with Cypress Ck	Panhandle	PITTS MILL CREEK	68.2	0	1.5	115	7/23/1996
22020010	QUINCY CR above SR12, ref for Quincy STP FYI	Panhandle	QUINCY CREEK	45.5	0	1.5	105	11/6/1995
22030010	St. Marks R approx 4 mi N of Hwy 98 (@ "rapids")	Panhandle	ST. MARKS RIVER	40.5	0	1.3	100	9/18/2001
22030010	St. Marks R approx 4 mi N of Hwy 98 (@ "rapids")	Panhandle	ST. MARKS RIVER	56.0	0	1.3	105	3/18/1997
22030010	St. Marks R approx 4 mi N of Hwy 98 (@ "rapids")	Panhandle	ST. MARKS RIVER	46.8	0	1.3	108	8/22/2000
31010051	SWEETWATER CREEK HWY.270 LIBERTY CO.	Panhandle	SWEETWATER CREEK	69.9	0	1.3	104	2/13/1996
31010051	SWEETWATER CREEK HWY.270 LIBERTY CO.	Panhandle	SWEETWATER CREEK	75.2	0	1.3	110	3/21/1994
31010051	SWEETWATER CREEK HWY.270 LIBERTY CO.	Panhandle	SWEETWATER CREEK	97.8	0	1.3	110	7/8/1992
31010051	SWEETWATER CREEK HWY.270 LIBERTY CO.	Panhandle	SWEETWATER CREEK	59.7	0	1.3	129	8/1/1994
31010051	SWEETWATER CREEK HWY.270 LIBERTY CO.	Panhandle	SWEETWATER CREEK	66.7	0	1.3	132	3/25/1993
31010051	SWEETWATER CREEK HWY.270 LIBERTY CO.	Panhandle	SWEETWATER CREEK	70.0	0	1.3	151	2/13/1995
31010051	SWEETWATER CREEK HWY.270 LIBERTY CO.	Panhandle	SWEETWATER CREEK	84.1	0	1.3	162	7/20/1993
31020040	TEN MILE CREEK S.R.73 CALHOUN CO.	Panhandle	TEN MILE CREEK	50.5	0	1.2	107	8/26/1994
31020040	TEN MILE CREEK S.R.73 CALHOUN CO.	Panhandle	TEN MILE CREEK	72.9	0	1.2	113	8/20/1992
31020040	TEN MILE CREEK S.R.73 CALHOUN CO.	Panhandle	TEN MILE CREEK	82.0	0	1.2	124	2/7/1995
31020040	TEN MILE CREEK S.R.73 CALHOUN CO.	Panhandle	TEN MILE CREEK	55.3	0	1.2	125	2/23/1993

STORET	Site Description	Bioregion	Waterbody Name	SCI	HDG	LDI	Total # individuals counted	Sample Date
31020040	TEN MILE CREEK S.R.73 CALHOUN CO.	Panhandle	TEN MILE CREEK	76.1	0	1.2	126	2/21/1994
31020040	TEN MILE CREEK S.R.73 CALHOUN CO.	Panhandle	TEN MILE CREEK	62.0	0	1.2	129	6/24/1993
31020040	TEN MILE CREEK S.R.73 CALHOUN CO.	Panhandle	TEN MILE CREEK	67.7	0	1.2	130	2/4/1997
31020040	TEN MILE CREEK S.R.73 CALHOUN CO.	Panhandle	TEN MILE CREEK	49.4	0	1.2	141	2/10/1998
33010065	Rest Area Run Creek below I 10	Panhandle	UNNAMED CREEK	82.2	0	1.2	113	7/12/1995
33010065	Rest Area Run Creek below I 10	Panhandle	UNNAMED CREEK	54.7	0	1.2	147	2/14/1996
22040038	Unnamed Creek above Monticello WWTP	Panhandle	UNNAMED CREEK	54.7	0	1.7	153	12/12/1995
32020066	Wright Ck, ref for Noma STP FYI	Panhandle	WRIGHTS CREEK	73.9	0	1.7	123	4/29/1993
20010455	BLACKWATER CREEK AT HWY 44A	Peninsula	BLACKWATER CREEK	59.0	0	1.0	109	3/29/1994
20010455	BLACKWATER CREEK AT HWY 44A	Peninsula	BLACKWATER CREEK	56.5	0	1.0	111	7/19/1994
20010455	BLACKWATER CREEK AT HWY 44A	Peninsula	BLACKWATER CREEK	80.9	0	1.0	126	8/26/1996
20010455	BLACKWATER CREEK AT HWY 44A	Peninsula	BLACKWATER CREEK	54.0	0	1.0	127	9/28/1993
20010455	BLACKWATER CREEK AT HWY 44A	Peninsula	BLACKWATER CREEK	51.9	0	1.0	128	8/11/1992
20010455	BLACKWATER CREEK AT HWY 44A	Peninsula	BLACKWATER CREEK	59.7	0	1.0	133	2/8/1993
20010455	BLACKWATER CREEK AT HWY 44A	Peninsula	BLACKWATER CREEK	33.5	0	1.0	143	2/7/1995
28020239	Cypress brch above SR 78	Peninsula	CYPRESS BRANCH	57.6	0	1.3	135	8/20/1997
28020239	Cypress brch above SR 78	Peninsula	CYPRESS BRANCH	70.3	0	1.3	142	8/20/1997
28020237	Cypress Creek 2 mi above SR78	Peninsula	CYPRESS CREEK	55.7	0	1.2	132	7/21/1999
28020237	Cypress Creek 2 mi above SR78	Peninsula	CYPRESS CREEK	70.4	0	1.2	135	8/5/1997
26010972	DAVENPORT CR AT SR 545 BRIDGE	Peninsula	DAVENPORT CREEK	63.0	0	2.0	104	8/16/1994
26010972	DAVENPORT CR AT SR 545 BRIDGE	Peninsula	DAVENPORT CREEK	66.3	0	2.0	110	9/30/1997
26010972	DAVENPORT CR AT SR 545 BRIDGE	Peninsula	DAVENPORT CREEK	73.6	0	2.0	113	2/14/1995
26010972	DAVENPORT CR AT SR 545 BRIDGE	Peninsula	DAVENPORT CREEK	79.4	0	2.0	167	1/10/2000
26010593	FISHEATING CREEK ABOVE US 27	Peninsula	FISHEATING CREEK	60.8	0	1.1	113	3/9/1993
20030414	GOLD HEAD BR. IN STATE PARK	Peninsula	GOLD HEAD BRANCH	90.0	0	1.0	100	8/21/1996
20030414	GOLD HEAD BR. IN STATE PARK	Peninsula	GOLD HEAD BRANCH	72.2	0	1.0	102	1/24/1995
20030414	GOLD HEAD BR. IN STATE PARK	Peninsula	GOLD HEAD BRANCH	80.8	0	1.0	109	7/20/1994
20030414	GOLD HEAD BR. IN STATE PARK	Peninsula	GOLD HEAD BRANCH	100.0	0	1.0	111	1/12/2000
20030414	GOLD HEAD BR. IN STATE PARK	Peninsula	GOLD HEAD BRANCH	89.2	0	1.0	121	3/10/1998

STORET	Site Description	Bioregion	Waterbody Name	SCI	HDG	LDI	Total # individuals counted	Sample Date
20030414	GOLD HEAD BR. IN STATE PARK	Peninsula	GOLD HEAD BRANCH	77.4	0	1.0	123	2/15/1994
24030142	Hillsborough R upstrm of Southside Br, Zephyrhil	Peninsula	HILLSBOROUGH RIVER	87.1	0	1.6	145	8/21/1996
24030048	Hillsborough River at SR 39	Peninsula	HILLSBOROUGH RIVER	60.8	0	1.5	109	8/21/1996
25020111	Horse Creek @ SR 72 Bridge	Peninsula	HORSE CREEK	70.4	0	1.8	110	2/17/1999
25020111	Horse Creek @ SR 72 Bridge	Peninsula	HORSE CREEK	66.6	0	1.8	147	10/24/1994
20010454	JUNIPER CREEK AT HIGHWAY 19	Peninsula	JUNIPER CREEK	55.8	0	1.1	110	1/31/1995
20010454	JUNIPER CREEK AT HIGHWAY 19	Peninsula	JUNIPER CREEK	29.6	0	1.1	115	8/3/1993
20010454	JUNIPER CREEK AT HIGHWAY 19	Peninsula	JUNIPER CREEK	75.5	0	1.1	146	3/4/1996
20020004	Little Orange Creek @ Hwy 21	Peninsula	LITTLE ORANGE CREEK	73.2	0	1.2	133	2/9/1998
20020004	Little Orange Creek @ Hwy 21	Peninsula	LITTLE ORANGE CREEK	82.5	0	1.2	134	2/12/1996
20020004	Little Orange Creek @ Hwy 21	Peninsula	LITTLE ORANGE CREEK	86.8	0	1.2	138	8/30/1994
20020004	Little Orange Creek @ Hwy 21	Peninsula	LITTLE ORANGE CREEK	82.2	0	1.2	139	2/15/1994
20020004	Little Orange Creek @ Hwy 21	Peninsula	LITTLE ORANGE CREEK	90.3	0	1.2	150	9/26/1995
20020004	Little Orange Creek @ Hwy 21	Peninsula	LITTLE ORANGE CREEK	75.3	0	1.2	161	8/15/2000
26011019	LIVINGSTON CREEK AT RUCKS DAIRY RD.	Peninsula	LIVINGSTON CREEK	71.2	0	1.5	118	9/5/2001
26011019	LIVINGSTON CREEK AT RUCKS DAIRY RD.	Peninsula	LIVINGSTON CREEK	61.5	0	1.5	156	2/18/1997
28010223	N FK LOXAHATCHEE RIVER REF BIO STATION	Peninsula	LOXAHATCHEE RIVER	34.3	0	1.0	106	9/21/1998
28010223	N FK LOXAHATCHEE RIVER REF BIO STATION	Peninsula	LOXAHATCHEE RIVER	49.2	0	1.0	115	9/22/1995
28010223	N FK LOXAHATCHEE RIVER REF BIO STATION	Peninsula	LOXAHATCHEE RIVER	59.9	0	1.0	124	10/7/1999
28010223	N FK LOXAHATCHEE RIVER REF BIO STATION	Peninsula	LOXAHATCHEE RIVER	33.9	0	1.0	134	8/20/1992
28010223	N FK LOXAHATCHEE RIVER REF BIO STATION	Peninsula	LOXAHATCHEE RIVER	54.8	0	1.0	146	8/25/1994
28010223	N FK LOXAHATCHEE RIVER REF BIO STATION	Peninsula	LOXAHATCHEE RIVER	33.8	0	1.0	158	3/22/1999
28010223	N FK LOXAHATCHEE RIVER REF BIO STATION	Peninsula	LOXAHATCHEE RIVER	44.7	0	1.0	161	2/20/1996
24010002	Manatee R 20 m below SR64 bridge (TP1)	Peninsula	MANATEE RIVER	60.3	0	1.3	109	3/17/1993
24010002	Manatee R 20 m below SR64 bridge (TP1)	Peninsula	MANATEE RIVER	76.3	0	1.3	126	2/2/1994
24010002	Manatee R 20 m below SR64 bridge (TP1)	Peninsula	MANATEE RIVER	77.2	0	1.3	129	7/17/1996
24010002	Manatee R 20 m below SR64 bridge (TP1)	Peninsula	MANATEE RIVER	96.7	0	1.3	145	2/2/1994
24010002	Manatee R 20 m below SR64 bridge (TP1)	Peninsula	MANATEE RIVER	80.2	0	1.3	172	11/21/2000
20020012	OKLAWAHA RIVER AT SR 316	Peninsula	OKLAWAHA RIVER	77.9	0	1.0	101	8/29/1995

STORET	Site Description	Bioregion	Waterbody Name	SCI	HDG	LDI	Total # individuals counted	Sample Date
20020012	OKLAWAHA RIVER AT SR 316	Peninsula	OKLAWAHA RIVER	65.2	0	1.0	117	3/20/1995
20020012	OKLAWAHA RIVER AT SR 316	Peninsula	OKLAWAHA RIVER	67.2	0	1.0	117	8/10/1993
20020012	OKLAWAHA RIVER AT SR 316	Peninsula	OKLAWAHA RIVER	68.1	0	1.0	137	2/15/2000
20020012	OKLAWAHA RIVER AT SR 316	Peninsula	OKLAWAHA RIVER	80.6	0	1.0	151	8/11/1998
20020012	OKLAWAHA RIVER AT SR 316	Peninsula	OKLAWAHA RIVER	49.6	0	1.0	153	2/8/1993
20020404	ORANGE CREEK 50 YDS. UP FROM HWY. 21	Peninsula	ORANGE CREEK	93.1	0	1.4	105	8/17/1993
20020404	ORANGE CREEK 50 YDS. UP FROM HWY. 21	Peninsula	ORANGE CREEK	94.5	0	1.4	110	9/22/1992
20020404	ORANGE CREEK 50 YDS. UP FROM HWY. 21	Peninsula	ORANGE CREEK	92.1	0	1.4	111	8/30/1994
20020404	ORANGE CREEK 50 YDS. UP FROM HWY. 21	Peninsula	ORANGE CREEK	83.1	0	1.4	118	3/16/1993
20020404	ORANGE CREEK 50 YDS. UP FROM HWY. 21	Peninsula	ORANGE CREEK	91.8	0	1.4	135	8/15/2000
20020404	ORANGE CREEK 50 YDS. UP FROM HWY. 21	Peninsula	ORANGE CREEK	94.3	0	1.4	139	2/15/1994
20020404	ORANGE CREEK 50 YDS. UP FROM HWY. 21	Peninsula	ORANGE CREEK	72.0	0	1.4	144	8/15/2000
20020404	ORANGE CREEK 50 YDS. UP FROM HWY. 21	Peninsula	ORANGE CREEK	96.3	0	1.4	168	2/28/1995
20030253	RICECR #3@BR SR #3/250yds above Bardine	Peninsula	RICE CREEK	67.1	0	1.1	125	5/11/1999
20030253	RICECR #3@BR SR #3/250yds above Bardine	Peninsula	RICE CREEK	24.0	0	1.1	136	3/16/1998
20020317	SILVER RUN AT CONFLUENCE WITH BOAT RAMP CANAL	Peninsula	SILVER RUN	34.8	0	1.3	133	9/1/1992
20020317	SILVER RUN AT CONFLUENCE WITH BOAT RAMP CANAL	Peninsula	SILVER RUN	42.3	0	1.3	136	8/10/1993
20020317	SILVER RUN AT CONFLUENCE WITH BOAT RAMP CANAL	Peninsula	SILVER RUN	53.5	0	1.3	142	9/4/2001
20020317	SILVER RUN AT CONFLUENCE WITH BOAT RAMP CANAL	Peninsula	SILVER RUN	57.6	0	1.3	142	2/8/1994
20020317	SILVER RUN AT CONFLUENCE WITH BOAT RAMP CANAL	Peninsula	SILVER RUN	54.2	0	1.3	150	3/20/1995
20020317	SILVER RUN AT CONFLUENCE WITH BOAT RAMP CANAL	Peninsula	SILVER RUN	76.0	0	1.3	166	9/16/1996
28020221	TELEGRAPH CREEK AT BABCOCK RANCH	Peninsula	TELEGRAPH CREEK	84.4	0	1.0	107	9/16/1996
28020221	TELEGRAPH CREEK AT BABCOCK RANCH	Peninsula	TELEGRAPH CREEK	80.8	0	1.0	146	7/27/1994
26011020	TIGER CREEK AT WALKING WATERS RD.	Peninsula	TIGER CREEK	74.4	0	1.0	109	7/14/1992
26011020	TIGER CREEK AT WALKING WATERS RD.	Peninsula	TIGER CREEK	76.5	0	1.0	111	2/18/1997
26011020	TIGER CREEK AT WALKING WATERS RD.	Peninsula	TIGER CREEK	75.7	0	1.0	142	2/21/1995
26011020	TIGER CREEK AT WALKING WATERS RD.	Peninsula	TIGER CREEK	73.4	0	1.0	161	7/20/1999
23010464	Withlacoochee R @ county park off Auton Rd (TP3)	Peninsula	WITHLACOOCHEE RIVER	43.4	0	1.2	100	9/28/1994
23010464	Withlacoochee R @ county park off Auton Rd (TP3)	Peninsula	WITHLACOOCHEE RIVER	46.9	0	1.2	100	9/2/1993

STORET	Site Description	Bioregion	Waterbody Name	SCI	HDG	LDI	Total # individuals counted	Sample Date
23010464	Withlacoochee R @ county park off Auton Rd (TP3)	Peninsula	WITHLACOOCHEE RIVER	67.8	0	1.2	120	3/9/1999
23010464	Withlacoochee R @ county park off Auton Rd (TP3)	Peninsula	WITHLACOOCHEE RIVER	50.6	0	1.2	122	7/26/1999
23010464	Withlacoochee R @ county park off Auton Rd (TP3)	Peninsula	WITHLACOOCHEE RIVER	49.6	0	1.2	125	3/11/1993
23010464	Withlacoochee R @ county park off Auton Rd (TP3)	Peninsula	WITHLACOOCHEE RIVER	66.1	0	1.2	136	2/13/1996
23010446	WITHLACOOCHEE RIVER	Peninsula	WITHLACOOCHEE RIVER	50.0	0	1.6	147	7/28/1999

Appendix A7. FDEP's Site Information and Taxa Lists for SCI BCG Workshop Samples

Cross-references:

Appendix B-16: FDEP's Site Information and Taxa Lists for SCI BCG Workshop Samples. U.S. EPA. 2010. *Technical Support Document for U.S. EPA's Proposed Rule for Numeric Nutrient Criteria for Florida's Inland Surface Fresh Waters. Water Quality Standards for the State of Florida's Lakes and Flowing Waters. Proposed Rule*. January 14, 2010. EPA-HQ-OW-2009-0596, FRL-9105-1.

Appendix 3-E. U.S. EPA. 2009. Proposed Methods and Approaches for Developing Numeric Nutrient Criteria for Florida's Inland Waters. United States Environmental Protection Agency, Office of Water, Office of Science and Technology, Health and Ecological Criteria Division, Washington, DC.

FDEP's Site Information and Taxa Lists for SCI BCG Workshop Samples

(Appendix 3-E from USEPA. 2009. *Proposed Methods and Approaches for Developing Numeric Nutrient Criteria for Florida's Inland Waters*. United States Environmental Protection Agency, Office of Water, Office of Science and Technology, Health and Ecological Criteria Division, Washington, DC.)

If you have a disability and are unable to read this spreadsheet, please contact Eric Shaw at Eric.Shaw@dep.state.fl.us, and you will be provided with an accessible version.

BCGSampleID	STORET	Station Nickname	Bioregion	Sample Date	SCI	HDG	LDI	Selection Rationale
NE01	19020027	ALIGTRREF	Northeast	4/11/2001	47.1	1	1.4	SCI [35-50] random
NE02	19010049	BLDWIN REF	Northeast	2/14/2000	32.9	2	3.22	Random
NE03	19020053	CALAHANTST	Northeast	9/24/2001	24.4	3	1.41	SCI 10th Percentile (22.96)
NE04	19020053	CALAHANTST	Northeast	7/15/1996	40.1	3	1.41	SCI [35-50] random
NE05	20030549	CECFLD6	Northeast	3/6/1996	73.6	1	2	LDI [2-9] random
NE06	20030332	JAXHEITTST	Northeast	5/5/1992	28.9	4	6.11	HDG [3-5] random
NE07	21030059	LKBUTTST	Northeast	9/15/1992	9.1	3	5.26	LDI [2-9] random
NE08	19010073	MCCLNYTST	Northeast	3/22/1999	68	0	1.55	SCI 75th Percentile (68.27)
NE09	20030573	MILOG209	Northeast	1/26/1998	30.6	1	1.61	SCI 25th Percentile (30.39)
NE10	19020059	YULEEREF	Northeast	10/28/1996	47	0	1.28	SCI 50th Percentile (45.09)
Panh01	22020078	ABHOPTST	Panhandle	6/4/1996	20.7	3	1	HDG [3-5] random
Panh02	33040073	CANEYCBELL	Panhandle	8/22/2000	30	3	1.71	HDG [3-5] random
Panh03	31010125	CHATTATST	Panhandle	10/13/1998	62.5	0	1.62	SCI 50th Percentile (62.40)
Panh04	31020071	CHTMDLCRKD	Panhandle	7/23/1996	70.5	1	1.72	SCI 75th Percentile (70.50)
Panh05	31020072	CHTMDLOTTR	Panhandle	7/23/1996	43.5	2	1.42	Random
Panh06	33010112	COFECSTLR	Panhandle	2/16/1999	47.7	2	1.05	SCI [35-50] random
Panh07	31020042	DOZREF	Panhandle	9/1/1992	30.2	6	2.83	SCI 25th Percentile (30.10)
Panh08	31020043	DOZTST	Panhandle	9/1/1992	35.8	6	2.75	SCI [35-50] random
Panh09	22030064	FLAMINREF	Panhandle	3/8/1993	4.6	7	8.08	SCI 10th Percentile (4.92)
Panh10	22050003	TAYLO4	Panhandle	4/10/2000	0.6	3	2.28	HDG [3-5] random
Pen01	20030585	BUNCNTRL	Peninsula	9/8/1998	15.5	6	5.29	HDG [6-9] random
Pen02	25020550	DESOT34	Peninsula	9/3/1997	37.5	4	2.91	SCI [35-50] random
Pen03	27010580	GROOVRARPT	Peninsula	8/22/2000	24.2	1	1.79	SCI 25th Percentile (24.55)
Pen04	24040117	GULFTST	Peninsula	10/8/1998	14.8	7	7.85	SCI 10th Percentile (14.45)
Pen05	24030044	HILSTP5REF	Peninsula	8/18/1993	55	1	2.12	HDG [1-2] random
Pen06	20010384	LONGBRANCH	Peninsula	7/13/1999	38.2	3	2.53	SCI [35-50] random
Pen07	28010224	NWFRLOXREF	Peninsula	9/20/1995	40.8	4	3.87	SCI 50th Percentile (40.81)
Pen08	25020014	OAKREF	Peninsula	8/22/1995	58.3	1	2.1	SCI 75th Percentile (58.70)
Pen09	20020145	SWEETCK	Peninsula	8/10/1998	21.1	2	1.3	Random
Pen10	20020420	WGCITREF	Peninsula	12/1/1992	0	7	8.32	HDG [6-9] random

Northeast Bioregion Reference Sites					
BCGSampleID	NERef01	NERef02	NERef03	NERef04	NERef05
Functional Feeding Groups					
% Browser-Grazers	0.93	0	0	0	0
% Burrowing Deposit Feeders	1.87	0	0.9	1.77	3.88
% Parasites	0	0	0	0	0
% Plant Piercers	0	0	0	0	0
% Predators	9.81	10.98	13.96	15.93	15.12
% Scavengers	1.4	3.79	7.21	3.54	0.78
% Scrapers	12.62	45.45	22.52	11.06	8.91
% Shredders	12.15	11.36	13.06	2.65	14.34
% Surface Deposit Feeders	35.98	23.86	31.98	25.22	31.01
% Suspension Feeders	18.69	4.55	6.76	39.82	24.42
% Unknown	6.54	0	3.6	0	1.55
Taxonomic Composition					
% Amphipoda	0	0.76	13.51	0	2.33
% Chironomidae	11.21	25	28.83	47.79	31.01
% Coleoptera	0.49	7.58	8.11	5.31	3.88
% Decapoda	2.8	0	0	0	0
% Diptera	25.23	25.76	29.73	53.1	51.16
% Dominant Taxon	12.15	28.79	13.51	18.58	10.85
% Ephemeroptera	27.1	18.18	16.22	15.04	11.63
% Gastropoda	6.54	32.58	12.61	2.65	1.55
% Isopoda	0	3.79	7.21	3.54	0.78
% Odonata	0.93	3.79	2.7	0.88	2.33
% Oligochaeta	1.87	0	0.9	1.77	3.88
% Pelecypoda	12.15	3.03	3.6	0.88	0
% Plecoptera	0	0	0	2.65	8.53
% Tanytarsini individuals	0	0	2.7	27.43	6.2
% Very Tolerant individuals	0.93	29.55	11.71	7.96	0.78
% Trichoptera	5.61	4.55	1.8	13.27	10.85
% Trombidiformes	1.86	0	3.6	0	2.33
Number of Chironomid taxa	7	8	10	13	14
Number of Clinger Taxa	5	3	6	7	10
Number of Ephemeroptera taxa	6	4	5	4	3
Number of EPT taxa	9	6	6	7	10
Number of Long-Lived Taxa	2	0	0	1	5
Number of Oligochaete taxa	1	0	1	2	3
Number of Plecoptera Taxa	0	0	0	1	2
Number of Sensitive Taxa	9	6	10	10	16
Number of Trichoptera taxa	3	2	1	2	5
Total Number of Individuals	107	132	111	113	129
Total Number of Taxa	34	25	33	35	43

Panhandle Bioregion Reference Sites					
BCGSampleID	PanhRef01	PanhRef02	PanhRef03	PanhRef04	PanhRef05
Functional Feeding Groups					
% Browser-Grazers	0	0	0.34	1	0
% Burrowing Deposit Feeders	0	1.17	2.04	1	0.91
% Parasites	0	0	0	0	0
% Plant Piercers	0	0	0	0	0.91
% Predators	6.17	11.99	15.99	19.5	22.27
% Scavengers	0	0.29	1.36	7	2.73
% Scrapers	21.1	24.56	4.76	24.5	8.18
% Shredders	15.58	6.14	4.76	14	11.36
% Surface Deposit Feeders	40.91	40.64	17.35	30.5	22.27
% Suspension Feeders	16.23	14.62	53.4	2.5	31.36
% Unknown	0	0.58	0	0	0
Taxonomic Composition					
% Amphipoda	0	5.26	0	11	0
% Chironomidae	33.12	16.37	30.61	16	29.09
% Coleoptera	18.18	20.47	3.4	12	10
% Decapoda	0	0.58	1.36	6	4.55
% Diptera	44.81	25.15	79.59	16	31.82
% Dominant Taxon	9.74	16.96	47.62	11	19.09
% Ephemeroptera	24.03	33.33	6.12	11	13.64
% Gastropoda	0	0	0	18	0.91
% Isopoda	0	0	0.68	4	0
% Odonata	0	0	1.36	6	2.73
% Oligochaeta	0	1.17	2.04	1	0.91
% Pelecypoda	0	0.58	2.04	0	0
% Plecoptera	0.65	1.75	0.68	0	8.18
% Tanytarsini individuals	2.6	7.02	6.8	4	20
% Trichoptera	9.74	9.36	0.68	2	22.73
% Trombidiformes	1.95	0.58	2.04	11	1.82
% Very Tolerant individuals	9.09	1.17	4.08	14	0.91
Number of Chironomid taxa	12	14	14	4	10
Number of Clinger Taxa	12	11	6	2	16
Number of Ephemeroptera taxa	7	5	2	3	6
Number of EPT taxa	13	13	4	5	19
Number of Long-Lived Taxa	2	3	4	3	9
Number of Oligochaete taxa	0	1	2	1	1
Number of Plecoptera taxa	1	1	1	0	4
Number of Sensitive Taxa	15	14	11	4	14
Number of Trichoptera taxa	5	7	1	2	9
Total Number of Individuals	154	171	147	100	110
Total Number of Taxa	38	41	35	28	46

Peninsula Bioregion Reference Sites					
BCGSampleID	PenRef01	PenRef02	PenRef03	PenRef04	PenRef05
Functional Feeding Groups					
% Browser-Grazers	0	0	0	1.46	0
% Burrowing Deposit Feeders	0	4.5	4.65	5.84	1.47
% Parasites	2.27	0	0	0	0
% Plant Piercers	0	0	0	0	0.74
% Predators	5.3	17.57	4.36	6.57	4.41
% Scavengers	0	0	0.58	1.46	0
% Scrapers	40.15	12.16	18.31	9.85	5.51
% Shredders	7.95	8.56	13.95	20.07	32.35
% Surface Deposit Feeders	29.92	21.62	32.56	35.04	45.59
% Suspension Feeders	14.39	30.18	25.58	19.71	9.93
% Unknown	0	5.41	0	0	0
Taxonomic Composition					
% Amphipoda	1.52	0	0	20.44	1.47
% Chironomidae	15.15	37.84	43.6	36.5	68.38
% Coleoptera	10.61	1.8	23.26	5.84	14.71
% Decapoda	0	0	1.16	2.92	0
% Diptera	23.48	41.44	49.42	43.07	69.85
% Dominant Taxon	20.45	9.91	24.42	20.44	59.56
% Ephemeroptera	29.55	13.51	11.05	10.22	1.47
% Gastropoda	20.45	2.7	0	2.19	0
% Isopoda	0	0	0	0	0
% Odonata	3.03	4.5	0.58	0.73	0
% Oligochaeta	0	4.5	4.65	5.84	1.47
% Pelecypoda	3.79	0	1.74	0.73	4.41
% Plecoptera	0	0.9	0	0	0
% Tanytarsini individuals	1.52	18.92	15.7	14.6	2.94
% Trichoptera	3.79	28.83	6.98	6.57	1.47
% Trombidiformes	0.76	1.8	0.58	0	4.42
% Very Tolerant individuals	25.76	0.9	1.74	8.03	61.03
Number of Chironomid taxa	7	14	10	10	6
Number of Clinger Taxa	5	12	8	6	4
Number of Ephemeroptera taxa	4	3	3	3	1
Number of EPT taxa	7	14	9	7	2
Number of Long-Lived Taxa	2	3	2	2	0
Number of Oligochaete taxa	0	3	2	3	2
Number of Plecoptera taxa	0	1	0	0	0
Number of Sensitive Taxa	4	11	6	5	3
Number of Trichoptera taxa	3	10	6	4	1
Total Number of Individuals	132	111	172	137	136
Total Number of Taxa	29	40	30	34	23

If you have a disability and are unable to read this spreadsheet, please contact Eric Shaw at Eric.Shaw@dep.state.fl.us, and you will be provided with an accessible version.

Expert:				
Bioregion:	**Northeast**			
BCGSampleID:	**NE01**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Caecidotea	39	Isopoda	Asellidae	
Micromenetus	13	Basommatophora	Planorbidae	
Caenis	13	Ephemeroptera	Caenidae	
Elliptio	12	Unionoida	Unionidae	
Hyalella azteca	11	Amphipoda	Hyalellidae	
Simulium	9	Diptera	Simuliidae	
Ancylidae	7	Basommatophora		
Rheotanytarsus exiguus grp.	4	Diptera	Chironomidae	
Cheumatopsyche	4	Trichoptera	Hydropsychidae	
Stenelmis	4	Coleoptera	Elmidae	
Ancyronyx variegatus	2	Coleoptera	Elmidae	
Ablabesmyia mallochi	2	Diptera	Chironomidae	
Tribelos jucundum	2	Diptera	Chironomidae	
Polypedilum illinoense grp.	2	Diptera	Chironomidae	
Labrundinia pilosella	1	Diptera	Chironomidae	
Dicrotendipes simpsoni	1	Diptera	Chironomidae	
Baetidae	1	Ephemeroptera		
Nanocladius	1	Diptera	Chironomidae	
Atrichopogon	1	Diptera	Ceratopogonidae	
Hydrobiidae	1	Mesogastropoda		
Stenochironomus	1	Diptera	Chironomidae	
Clinotanypus	1	Diptera	Chironomidae	
Procambarus	1	Decapoda	Cambaridae	
Eclipidrilus	1	Lumbriculida	Lumbriculidae	
Polypedilum scalaenum grp.	1	Diptera	Chironomidae	

Expert:				
Bioregion:	**Northeast**			
BCGSampleID:	**NE02**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Pelecypoda	26			
Hebetancylus excentricus	12	Basommatophora	Ancylidae	
Paratanytarsus dissimilis	12	Diptera	Chironomidae	
Tanytarsus sp. g epler	10	Diptera	Chironomidae	
Tanytarsus sp. l epler	6	Diptera	Chironomidae	
Polypedilum tritum	5	Diptera	Chironomidae	
Dero digitata complex	3	Haplotaxida	Naididae	
Crangonyx	3	Amphipoda	Crangonyctidae	
Polypedilum illinoense grp.	3	Diptera	Chironomidae	
Neoporus	3	Coleoptera	Dytiscidae	
Kiefferulus	3	Diptera	Chironomidae	
Physella	2	Basommatophora	Physidae	
Tanypus	2	Diptera	Chironomidae	
Haber speciosus	2	Haplotaxida	Tubificidae	
Larsia	2	Diptera	Chironomidae	
Clinohelea	1	Diptera	Ceratopogonidae	
Corynoneura	1	Diptera	Chironomidae	
Ablabesmyia mallochi	1	Diptera	Chironomidae	
Tanytarsus sp. a epler	1	Diptera	Chironomidae	
Limnodrilus hoffmeisteri	1	Haplotaxida	Tubificidae	
Tribelos	1	Diptera	Chironomidae	
Nanocladius	1	Diptera	Chironomidae	

Expert:				
Bioregion:	**Northeast**			
BCGSampleID:	**NE03**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Polypedilum illinoense grp.	50	Diptera	Chironomidae	
Limnodrilus hoffmeisteri	13	Haplotaxida	Tubificidae	
Sphaeriidae	8	Veneroida		
Aulodrilus pigueti	6	Haplotaxida	Tubificidae	
Chironomus	4	Diptera	Chironomidae	
Pseudocloeon propinquum	4	Ephemeroptera	Baetidae	
Dero	2	Haplotaxida	Naididae	
Ancyronyx variegatus	2	Coleoptera	Elmidae	
Allonais paraguayensis	2	Haplotaxida	Naididae	
Simulium	2	Diptera	Simuliidae	
Haber speciosus	2	Haplotaxida	Tubificidae	
Enchytraeidae	1	Haplotaxida		
Psammoryctides convolutus	1	Haplotaxida	Tubificidae	
Polypedilum halterale grp.	1	Diptera	Chironomidae	
Stenacron floridense	1	Ephemeroptera	Heptageniidae	
Hydrobiidae	1	Mesogastropoda		
Eclipidrilus palustris	1	Lumbriculida	Lumbriculidae	
Tanytarsus	1	Diptera	Chironomidae	
Calopteryx	1	Odonata	Calopterygidae	
Caenis	1	Ephemeroptera	Caenidae	
Coenagrionidae	1	Odonata		
Ancylidae	1	Basommatophora		

Expert:				
Bioregion:	**Northeast**			
BCGSampleID:	**NE04**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Polypedilum illinoense grp.	20	Diptera	Chironomidae	
Pisidiidae	18	Veneroida		
Micromenetus	13	Basommatophora	Planorbidae	
Amnicola	10	Mesogastropoda	Bithyniidae	
Enallagma signatum	7	Odonata	Coenagrionidae	
Nanocladius	6	Diptera	Chironomidae	
Caenis	6	Ephemeroptera	Caenidae	
Limnodrilus hoffmeisteri	6	Haplotaxida	Tubificidae	
Pentaneura inconspicua	5	Diptera	Chironomidae	
Ablabesmyia rhamphe grp.	5	Diptera	Chironomidae	
Argia	5	Odonata	Coenagrionidae	
Physella	4	Basommatophora	Physidae	
Tanytarsus sp. a epler	4	Diptera	Chironomidae	
Baetis	4	Ephemeroptera	Baetidae	
Parachironomus carinatus	3	Diptera	Chironomidae	
Dero trifida	3	Haplotaxida	Naididae	
Microcylloepus pusillus	2	Coleoptera	Elmidae	
Hyalella azteca	1	Amphipoda	Hyalellidae	
Dubiraphia vittata	1	Coleoptera	Elmidae	
Stenelmis	1	Coleoptera	Elmidae	
Ancyronyx variegatus	1	Coleoptera	Elmidae	
Prionocyphon	1	Coleoptera	norowsselected	
Palpomyia/bezzia grp.	1	Diptera	Ceratopogonidae	
Polypedilum convictum grp.	1	Diptera	Chironomidae	
Labrundinia pilosella	1	Diptera	Chironomidae	
Stenochironomus	1	Diptera	Chironomidae	
Simulium	1	Diptera	Simuliidae	
Tabanidae	1	Diptera		
Allonais paraguayensis	1	Haplotaxida	Naididae	
Stylaria lacustris	1	Haplotaxida	Naididae	
Caecidotea	1	Isopoda	Asellidae	
Calopteryx	1	Odonata	Calopterygidae	
Corduliidae	1	Odonata		

Expert:				
Bioregion:	**Northeast**			
BCGSampleID:	**NE05**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Stenelmis	19	Coleoptera	Elmidae	
Ancylidae	11	Basommatophora		
Oecetis	9	Trichoptera	Leptoceridae	
Polypedilum illinoense	8	Diptera	Chironomidae	
Stenacron interpunctatum	6	Ephemeroptera	Heptageniidae	
Eurylophella temporalis	5	Ephemeroptera	Ephemerellidae	
Stempellinella	5	Diptera	Chironomidae	
Cladotanytarsus	4	Diptera	Chironomidae	
Caenis	4	Ephemeroptera	Caenidae	
Polypedilum scalaenum grp.	3	Diptera	Chironomidae	
Stenonema smithae	2	Ephemeroptera	Heptageniidae	
Tanytarsus sp. t epler	2	Diptera	Chironomidae	
Amnicola	2	Mesogastropoda	Bithyniidae	
Stenochironomus	2	Diptera	Chironomidae	
Paraleptophlebia volitans	1	Ephemeroptera	Leptophlebiidae	
Palaemonetes paludosus	1	Decapoda	Palaemonidae	
Pisidiidae	1	Veneroida		
Micromenetus dilatatus	1	Basommatophora	Planorbidae	
Hemerodromia	1	Diptera	Empididae	
Labrundinia	1	Diptera	Chironomidae	
Conchapelopia	1	Diptera	Chironomidae	
Simulium	1	Diptera	Simuliidae	
Triaenodes	1	Trichoptera	Leptoceridae	
Cheumatopsyche	1	Trichoptera	Hydropsychidae	
Lype	1	Trichoptera	Psychomyiidae	
Prionocyphon	1	Coleoptera		
Sminthurides	1	Collembola	Sminthuridae	
Tanytarsus sp. c epler	1	Diptera	Chironomidae	
Tanytarsus sp. o epler	1	Diptera	Chironomidae	
Ablabesmyia rhamphe grp.	1	Diptera	Chironomidae	
Ancyronyx variegatus	1	Coleoptera	Elmidae	
Pentaneura inconspicua	1	Diptera	Chironomidae	
Tribelos jucundum	1	Diptera	Chironomidae	
Rheocricotopus robacki	1	Diptera	Chironomidae	

Expert:				
Bioregion:	**Northeast**			
BCGSampleID:	**NE06**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Enallagma cardenium	24	Odonata	Coenagrionidae	
Lumbriculus inconstans	15	Lumbriculida	Lumbriculidae	
Polypedilum scalaenum grp.	13	Diptera	Chironomidae	
Physella	9	Basommatophora	Physidae	
Polypedilum tritum	9	Diptera	Chironomidae	
Chironomus decorus	7	Diptera	Chironomidae	
Pisidiidae	4	Veneroida		
Dicrotendipes neomodestus	3	Diptera	Chironomidae	
Ischnura	3	Odonata	Coenagrionidae	
Cheumatopsyche	3	Trichoptera	Hydropsychidae	
Argia sedula	3	Odonata	Coenagrionidae	
Hemerodromia	3	Diptera	Empididae	
Conchapelopia	2	Diptera	Chironomidae	
Stenelmis	2	Coleoptera	Elmidae	
Progomphus obscurus	1	Odonata	Gomphidae	
Tipulidae	1	Diptera		
Tanytarsus sp. e epler	1	Diptera	Chironomidae	
Peltodytes muticus	1	Coleoptera	Haliplidae	
Dicrotendipes modestus	1	Diptera	Chironomidae	
Palpomyia/bezzia grp.	1	Diptera	Ceratopogonidae	
Mesovelia	1	Heteroptera	Mesoveliidae	
Abedus	1	Heteroptera	Belostomatidae	
Hydropsyche	1	Trichoptera	Hydropsychidae	
Ablabesmyia mallochi	1	Diptera	Chironomidae	

Expert:				
Bioregion:	**Northeast**			
BCGSampleID:	**NE07**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Polypedilum illinoense grp.	62	Diptera	Chironomidae	
Physella	32	Basommatophora	Physidae	
Limnodrilus hoffmeisteri	23	Haplotaxida	Tubificidae	
Chironomus	23	Diptera	Chironomidae	
Enchytraeidae	7	Haplotaxida		
Lirceus	2	Isopoda	Asellidae	
Stenelmis	2	Coleoptera	Elmidae	
Paratanytarsus	1	Diptera	Chironomidae	
Ischnura	1	Odonata	Coenagrionidae	
Cryptochironomus	1	Diptera	Chironomidae	
Pseudorthocladius	1	Diptera	Chironomidae	
Macronychus glabratus	1	Coleoptera	Elmidae	

Expert:				
Bioregion:	**Northeast**			
BCGSampleID:	**NE08**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Tanytarsus sp. m epler	29	Diptera	Chironomidae	
Polypedilum convictum grp.	25	Diptera	Chironomidae	
Cheumatopsyche	14	Trichoptera	Hydropsychidae	
Rheocricotopus robacki	13	Diptera	Chironomidae	
Ablabesmyia mallochi	10	Diptera	Chironomidae	
Caecidotea	8	Isopoda	Asellidae	
Ablabesmyia rhamphe grp.	7	Diptera	Chironomidae	
Stenelmis	5	Coleoptera	Elmidae	
Simulium	4	Diptera	Simuliidae	
Rheotanytarsus exiguus grp.	4	Diptera	Chironomidae	
Tanytarsus sp. u epler	3	Diptera	Chironomidae	
Ancylidae	3	Basommatophora		
Polypedilum illinoense grp.	3	Diptera	Chironomidae	
Polypedilum scalaenum grp.	3	Diptera	Chironomidae	
Thienemannimyia grp.	3	Diptera	Chironomidae	
Rheotanytarsus distinctissimus grp.	2	Diptera	Chironomidae	
Tanytarsus sp. l epler	2	Diptera	Chironomidae	
Procladius	2	Diptera	Chironomidae	
Tanytarsus sp. c epler	1	Diptera	Chironomidae	
Microcylloepus pusillus	1	Coleoptera	Elmidae	
Stenonema smithae	1	Ephemeroptera	Heptageniidae	
Slavina appendiculata	1	Haplotaxida	Naididae	
Cladotanytarsus	1	Diptera	Chironomidae	
Cryptotendipes	1	Diptera	Chironomidae	
Conchapelopia	1	Diptera	Chironomidae	
Enallagma	1	Odonata	Coenagrionidae	
Progomphus	1	Odonata	Gomphidae	
Acerpenna pygmaea	1	Ephemeroptera	Baetidae	
Xenochironomus xenolabis	1	Diptera	Chironomidae	
Thienemanniella xena	1	Diptera	Chironomidae	
Hygrobates	1	Acariformes	Hygrobatidae	
Gyrinidae	1	Coleoptera		
Cricotopus bicinctus	1	Diptera	Chironomidae	
Pentaneura inconspicua	1	Diptera	Chironomidae	

Expert:				
Bioregion:	**Northeast**			
BCGSampleID:	**NE09**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Cheumatopsyche	57	Trichoptera	Hydropsychidae	
Simulium	17	Diptera	Simuliidae	
Polypedilum illinoense grp.	14	Diptera	Chironomidae	
Sphaeriidae	8	Veneroida		
Polypedilum aviceps	6	Diptera	Chironomidae	
Dubiraphia	5	Coleoptera	Elmidae	
Micromenetus	3	Basommatophora	Planorbidae	
Nais communis	3	Haplotaxida	Naididae	
Physella	3	Basommatophora	Physidae	
Parametriocnemus	3	Diptera	Chironomidae	
Coenagrionidae	2	Odonata		
Neoporus	2	Coleoptera	Dytiscidae	
Stenelmis	2	Coleoptera	Elmidae	
Caecidotea	2	Isopoda	Asellidae	
Hydrobiidae	1	Mesogastropoda		
Limnodrilus hoffmeisteri	1	Haplotaxida	Tubificidae	
Dicrotendipes simpsoni	1	Diptera	Chironomidae	
Paratanytarsus sp. c epler	1	Diptera	Chironomidae	
Slavina appendiculata	1	Haplotaxida	Naididae	
Tabanidae	1	Diptera		
Labrundinia	1	Diptera	Chironomidae	
Nanocladius	1	Diptera	Chironomidae	

Expert:				
Bioregion:	**Northeast**			
BCGSampleID:	**NE10**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Pelecypoda	18			
Caecidotea	18	Isopoda	Asellidae	
Ancylidae	17	Basommatophora		
Micromenetus dilatatus	17	Basommatophora	Planorbidae	
Leptophlebiidae	9	Ephemeroptera		
Paratanytarsus sp. a epler	9	Diptera	Chironomidae	
Ablabesmyia mallochi	8	Diptera	Chironomidae	
Stenochironomus	3	Diptera	Chironomidae	
Neoporus	3	Coleoptera	Dytiscidae	
Polypedilum illinoense grp.	3	Diptera	Chironomidae	
Neurocordulia alabamensis	2	Odonata	Libellulidae	
Tanytarsus sp. t epler	2	Diptera	Chironomidae	
Labrundinia pilosella	2	Diptera	Chironomidae	
Eclipidrilus	1	Lumbriculida	Lumbriculidae	
Physella	1	Basommatophora	Physidae	
Caenis	1	Ephemeroptera	Caenidae	
Crangonyx	1	Amphipoda	Crangonyctidae	
Notomicrus	1	Coleoptera	Noteridae	
Kiefferulus	1	Diptera	Chironomidae	
Dicrotendipes simpsoni	1	Diptera	Chironomidae	
Tanytarsus sp. m epler	1	Diptera	Chironomidae	
Rheotanytarsus exiguus grp.	1	Diptera	Chironomidae	
Libellula vibrans	1	Odonata	Libellulidae	
Stenelmis	1	Coleoptera	Elmidae	
Oecetis	1	Trichoptera	Leptoceridae	
Clinotanypus	1	Diptera	Chironomidae	
Larsia	1	Diptera	Chironomidae	
Procladius	1	Diptera	Chironomidae	
Parachironomus	1	Diptera	Chironomidae	

Expert:				
Bioregion:	**Panhandle**			
BCGSampleID:	**Panh01**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Ablabesmyia mallochi	39	Diptera	Chironomidae	
Polypedilum scalaenum grp.	23	Diptera	Chironomidae	
Procladius	15	Diptera	Chironomidae	
Phaenopsectra punctipes grp.	10	Diptera	Chironomidae	
Hemerodromia	9	Diptera	Empididae	
Procambarus	2	Decapoda	Cambaridae	
Polypedilum fallax	2	Diptera	Chironomidae	
Polypedilum halterale grp.	2	Diptera	Chironomidae	
Polypedilum illinoense	2	Diptera	Chironomidae	
Caenis	1	Ephemeroptera	Caenidae	
Orthocladiinae	1	Diptera		
Parametriocnemus	1	Diptera	Chironomidae	
Cryptochironomus	1	Diptera	Chironomidae	
Dicrotendipes modestus	1	Diptera	Chironomidae	
Elmidae	1	Coleoptera		
Pisidiidae	1	Veneroida		
Neoporus	1	Coleoptera	Dytiscidae	
Xestochironomus	1	Diptera	Chironomidae	
Paracladopelma	1	Diptera	Chironomidae	
Chironomus	1	Diptera	Chironomidae	
Neotrichia	1	Trichoptera	Hydroptilidae	
Odonata	1	Odonata		
Triaenodes	1	Trichoptera	Leptoceridae	

Expert:				
Bioregion:	**Panhandle**			
BCGSampleID:	**Panh02**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Pelecypoda	19			
Tribelos jucundum	19	Diptera	Chironomidae	
Pachydiplax longipennis	9	Odonata	Libellulidae	
Polypedilum tritum	6	Diptera	Chironomidae	
Ceratopogonidae	5	Diptera		
Zavreliella marmorata	4	Diptera	Chironomidae	
Chironomus	4	Diptera	Chironomidae	
Mideopsis	3	Acariformes	Mideopsidae	
Hyalella azteca	3	Amphipoda	Hyalellidae	
Stenelmis	3	Coleoptera	Elmidae	
Tanytarsus sp. m epler	2	Diptera	Chironomidae	
Nais communis complex	2	Haplotaxida	Naididae	
Nilothauma	2	Diptera	Chironomidae	
Polypedilum illinoense grp.	2	Diptera	Chironomidae	
Dubiraphia vittata	2	Coleoptera	Elmidae	
Slavina appendiculata	2	Haplotaxida	Naididae	
Neoporus	2	Coleoptera	Dytiscidae	
Dicrotendipes simpsoni	1	Diptera	Chironomidae	
Dero digitata complex	1	Haplotaxida	Naididae	
Corethrella	1	Diptera	Corethrellidae	
Cryptochironomus	1	Diptera	Chironomidae	
Macronychus glabratus	1	Coleoptera	Elmidae	
Tanytarsus sp. o epler	1	Diptera	Chironomidae	
Tanytarsus sp. s epler	1	Diptera	Chironomidae	
Parachironomus carinatus	1	Diptera	Chironomidae	
Ancyronyx variegatus	1	Coleoptera	Elmidae	
Micromenetus dilatatus	1	Basommatophora	Planorbidae	
Limnodrilus hoffmeisteri	1	Haplotaxida	Tubificidae	
Thienemannimyia grp.	1	Diptera	Chironomidae	
Kiefferulus	1	Diptera	Chironomidae	
Hydrodroma	1	Acariformes	Hydrodromidae	
Culicidae	1	Diptera		

Expert:				
Bioregion:	**Panhandle**			
BCGSampleID:	**Panh03**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Rheotanytarsus exiguus grp.	19	Diptera	Chironomidae	
Simulium	15	Diptera	Simuliidae	
Rheocricotopus robacki	15	Diptera	Chironomidae	
Microcylloepus pusillus	6	Coleoptera	Elmidae	
Polypedilum convictum grp.	5	Diptera	Chironomidae	
Eurylophella doris	5	Ephemeroptera	Ephemerellidae	
Polypedilum illinoense grp.	4	Diptera	Chironomidae	
Oecetis	4	Trichoptera	Leptoceridae	
Thienemanniella sp. b epler	3	Diptera	Chironomidae	
Chironomus	3	Diptera	Chironomidae	
Labrundinia pilosella	3	Diptera	Chironomidae	
Baetis	3	Ephemeroptera	Baetidae	
Corynoneura	3	Diptera	Chironomidae	
Polypedilum scalaenum grp.	2	Diptera	Chironomidae	
Labiobaetis	2	Ephemeroptera	Baetidae	
Pentaneura inconspicua	2	Diptera	Chironomidae	
Ablabesmyia mallochi	2	Diptera	Chironomidae	
Pristina synclites	2	Haplotaxida	Naididae	
Caenis	2	Ephemeroptera	Caenidae	
Leptophlebiidae	2	Ephemeroptera		
Rheotanytarsus distinctissimus grp.	1	Diptera	Chironomidae	
Polypedilum aviceps	1	Diptera	Chironomidae	
Thienemanniella xena	1	Diptera	Chironomidae	
Nilotanypus fimbriatus	1	Diptera	Chironomidae	
Thienemannimyia grp.	1	Diptera	Chironomidae	
Stempellinella	1	Diptera	Chironomidae	
Xestochironomus	1	Diptera	Chironomidae	
Stenochironomus	1	Diptera	Chironomidae	
Nanocladius	1	Diptera	Chironomidae	
Cheumatopsyche	1	Trichoptera	Hydropsychidae	
Stenelmis	1	Coleoptera	Elmidae	
Agnetina	1	Plecoptera	Perlidae	
Argia	1	Odonata	Coenagrionidae	
Lepidoptera	1	Lepidoptera		
Atractides	1	Acariformes	Hygrobatidae	
Hygrobates	1	Acariformes	Hygrobatidae	
Isonychia	1	Ephemeroptera	Oligoneuriidae	
Stenonema	1	Ephemeroptera	Heptageniidae	
Oribatei	1			
Thienemanniella sp. a epler	1	Diptera	Chironomidae	

Expert:				
Bioregion:	**Panhandle**			
BCGSampleID:	**Panh04**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Chimarra	17	Trichoptera	Philopotamidae	
Polypedilum convictum grp.	14	Diptera	Chironomidae	
Cheumatopsyche	7	Trichoptera	Hydropsychidae	
Calopteryx	6	Odonata	Calopterygidae	
Crangonyx	5	Amphipoda	Crangonyctidae	
Parametriocnemus	4	Diptera	Chironomidae	
Hemerodromia	4	Diptera	Empididae	
Triaenodes	3	Trichoptera	Leptoceridae	
Rheotanytarsus exiguus grp.	3	Diptera	Chironomidae	
Microtendipes pedellus grp.	3	Diptera	Chironomidae	
Gonielmis dietrichi	3	Coleoptera	Elmidae	
Ancyronyx variegatus	3	Coleoptera	Elmidae	
Enallagma	3	Odonata	Coenagrionidae	
Simulium	3	Diptera	Simuliidae	
Eclipidrilus palustris	3	Lumbriculida	Lumbriculidae	
Stempellinella	3	Diptera	Chironomidae	
Hydroptila	2	Trichoptera	Hydroptilidae	
Oecetis	2	Trichoptera	Leptoceridae	
Microtendipes rydalensis grp.	2	Diptera	Chironomidae	
Cambaridae	2	Decapoda		
Planariidae	2	Tricladida		
Paranyctiophylax	2	Trichoptera	Polycentropodidae	
Hydropsyche	1	Trichoptera	Hydropsychidae	
Neurocordulia alabamensis	1	Odonata	Libellulidae	
Argia	1	Odonata	Coenagrionidae	
Baetidae	1	Ephemeroptera		
Lebertia	1	Acariformes	Lebertiidae	
Tanytarsus sp. m epler	1	Diptera	Chironomidae	
Polypedilum illinoense grp.	1	Diptera	Chironomidae	
Polypedilum scalaenum grp.	1	Diptera	Chironomidae	
Tribelos jucundum	1	Diptera	Chironomidae	
Polypedilum aviceps	1	Diptera	Chironomidae	
Pentaneura inconspicua	1	Diptera	Chironomidae	
Arrenurus	1	Acariformes	Arrenuridae	
Meropelopia	1	Diptera	Chironomidae	
Limnodrilus hoffmeisteri	1	Haplotaxida	Tubificidae	
Pseudochironomus	1	Diptera	Chironomidae	
Paraponyx	1	Lepidoptera	Pyralidae	
Stenelmis	1	Coleoptera	Elmidae	
Caecidotea	1	Isopoda	Asellidae	

Expert:				
Bioregion:	**Panhandle**			
BCGSampleID:	**Panh05**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Polypedilum convictum grp.	30	Diptera	Chironomidae	
Pisidiidae	14	Veneroida		
Caecidotea	8	Isopoda	Asellidae	
Dubiraphia	7	Coleoptera	Elmidae	
Polypedilum scalaenum grp.	6	Diptera	Chironomidae	
Rheotanytarsus exiguus grp.	6	Diptera	Chironomidae	
Dugesia tigrina	5	Tricladida	Dugesiidae	
Conchapelopia	5	Diptera	Chironomidae	
Hydropsyche	5	Trichoptera	Hydropsychidae	
Oecetis	5	Trichoptera	Leptoceridae	
Ancyronyx variegatus	4	Coleoptera	Elmidae	
Cheumatopsyche	4	Trichoptera	Hydropsychidae	
Tanytarsus sp. l epler	4	Diptera	Chironomidae	
Hyalella azteca	3	Amphipoda	Hyalellidae	
Palpomyia/bezzia grp.	3	Diptera	Ceratopogonidae	
Dicrotendipes modestus	3	Diptera	Chironomidae	
Limnodrilus hoffmeisteri	2	Haplotaxida	Tubificidae	
Corixidae	2	Heteroptera		
Clinotanypus	2	Diptera	Chironomidae	
Polypedilum illinoense grp.	2	Diptera	Chironomidae	
Thienemannimyia grp.	1	Diptera	Chironomidae	
Pristinella longisoma	1	Haplotaxida	Naididae	
Microcylloepus pusillus	1	Coleoptera	Elmidae	
Tanytarsus sp. m epler	1	Diptera	Chironomidae	
Thienemanniella sp. a epler	1	Diptera	Chironomidae	
Stenelmis	1	Coleoptera	Elmidae	
Helodidae	1	Coleoptera		
Libellulidae	1	Odonata		
Chironomus	1	Diptera	Chironomidae	
Tvetenia discoloripes grp.	1	Diptera	Chironomidae	
Tanytarsus sp. e epler	1	Diptera	Chironomidae	
Rheotanytarsus distinctissimus grp.	1	Diptera	Chironomidae	
Labrundinia neopilosella	1	Diptera	Chironomidae	
Larsia decolorata	1	Diptera	Chironomidae	

Expert:				
Bioregion:	**Panhandle**			
BCGSampleID:	**Panh06**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Tribelos jucundum	26	Diptera	Chironomidae	
Dubiraphia vittata	7	Coleoptera	Elmidae	
Eurylophella doris	7	Ephemeroptera	Ephemerellidae	
Oecetis georgia	4	Trichoptera	Leptoceridae	
Polypedilum illinoense grp.	4	Diptera	Chironomidae	
Leptophlebiidae	3	Ephemeroptera		
Cryptochironomus	3	Diptera	Chironomidae	
Thienemannimyia grp.	3	Diptera	Chironomidae	
Probezzia	3	Diptera	Ceratopogonidae	
Triaenodes	2	Trichoptera	Leptoceridae	
Enchytraeidae	2	Haplotaxida		
Palaemonetes kadiakensis	2	Decapoda	Palaemonidae	
Polypedilum convictum grp.	2	Diptera	Chironomidae	
Ablabesmyia mallochi	2	Diptera	Chironomidae	
Tanytarsus sp. d epler	2	Diptera	Chironomidae	
Tanytarsus sp. o epler	2	Diptera	Chironomidae	
Ceratopogon	2	Diptera	Ceratopogonidae	
Stenacron floridense	2	Ephemeroptera	Heptageniidae	
Microcylloepus pusillus	2	Coleoptera	Elmidae	
Conchapelopia	2	Diptera	Chironomidae	
Aeshnidae	2	Odonata		
Sphaeriidae(mollusca)	2	Veneroida		
Neureclipsis	1	Trichoptera	Polycentropodidae	
Stempellinella	1	Diptera	Chironomidae	
Polypedilum scalaenum grp.	1	Diptera	Chironomidae	
Stelechomyia perpulchra	1	Diptera	Chironomidae	
Paracladopelma undine	1	Diptera	Chironomidae	
Rheocricotopus robacki	1	Diptera	Chironomidae	
Gonielmis dietrichi	1	Coleoptera	Elmidae	
Ancyronyx variegatus	1	Coleoptera	Elmidae	
Stenochironomus	1	Diptera	Chironomidae	
Sciaridae	1	Diptera		
Atractides	1	Acariformes	Hygrobatidae	
Caecidotea	1	Isopoda	Asellidae	
Enallagma	1	Odonata	Coenagrionidae	
Ectopria	1	Coleoptera	Psephenidae	
Stenelmis	1	Coleoptera	Elmidae	

Expert:				
Bioregion:	**Panhandle**			
BCGSampleID:	**Panh07**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Eclipidrilus palustris	31	Lumbriculida	Lumbriculidae	
Tanytarsus sp. t epler	19	Diptera	Chironomidae	
Tanytarsus sp. c epler	13	Diptera	Chironomidae	
Conchapelopia	10	Diptera	Chironomidae	
Cryptochironomus	8	Diptera	Chironomidae	
Tanytarsus sp. u epler	5	Diptera	Chironomidae	
Stenelmis	5	Coleoptera	Elmidae	
Cricotopus bicinctus	5	Diptera	Chironomidae	
Polypedilum scalaenum grp.	4	Diptera	Chironomidae	
Saetheria	4	Diptera	Chironomidae	
Polypedilum tritum	3	Diptera	Chironomidae	
Polypedilum illinoense	2	Diptera	Chironomidae	
Cladotanytarsus	2	Diptera	Chironomidae	
Ablabesmyia mallochi	2	Diptera	Chironomidae	
Enchytraeidae	1	Haplotaxida		
Physella	1	Basommatophora	Physidae	
Bratislavia unidentata	1	Haplotaxida	Naididae	
Baetis frondalis	1	Ephemeroptera	Baetidae	
Cheumatopsyche	1	Trichoptera	Hydropsychidae	
Guttipelopia guttipennis	1	Diptera	Chironomidae	
Celina	1	Coleoptera	Dytiscidae	
Hydaticus	1	Coleoptera	Dytiscidae	

Expert:				
Bioregion:	**Peninsula**			
BCGSampleID:	**Pen08**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Stenelmis	18	Coleoptera	Elmidae	
Caenis	13	Ephemeroptera	Caenidae	
Oecetis	12	Trichoptera	Leptoceridae	
Tribelos fuscicornis	11	Diptera	Chironomidae	
Polypedilum convictum grp.	6	Diptera	Chironomidae	
Dubiraphia	5	Coleoptera	Elmidae	
Cheumatopsyche	5	Trichoptera	Hydropsychidae	
Macromia taeniolata	4	Odonata	Libellulidae	
Limnodrilus hoffmeisteri	4	Haplotaxida	Tubificidae	
Cryptochironomus	4	Diptera	Chironomidae	
Argia	3	Odonata	Coenagrionidae	
Ablabesmyia rhamphe grp.	2	Diptera	Chironomidae	
Acerpenna pygmaea	2	Ephemeroptera	Baetidae	
Hyalella azteca	2	Amphipoda	Hyalellidae	
Hemerodromia	2	Diptera	Empididae	
Neotrichia	2	Trichoptera	Hydroptilidae	
Cernotina	2	Trichoptera	Polycentropodidae	
Ancylidae	2	Basommatophora		
Enchytraeidae	2	Haplotaxida		
Tricorythodes albilineatus	1	Ephemeroptera	Leptohyphidae	
Polypedilum scalaenum grp.	1	Diptera	Chironomidae	
Ablabesmyia (karelia) grp.	1	Diptera	Chironomidae	
Planorbidae	1	Basommatophora		
Heptageniidae	1	Ephemeroptera		
Enallagma	1	Odonata	Coenagrionidae	
Triaenodes	1	Trichoptera	Leptoceridae	
Dineutus	1	Coleoptera	Gyrinidae	
Gammarus	1	Amphipoda	Gammaridae	
Pisidiidae	1	Veneroida		
Hydrobiidae	1	Mesogastropoda		
Nyctiophylax	1	Trichoptera	Polycentropodidae	
Stenochironomus	1	Diptera	Chironomidae	
Palpomyia/bezzia grp.	1	Diptera	Ceratopogonidae	
Polypedilum illinoense grp.	1	Diptera	Chironomidae	

Expert:				
Bioregion:	**Panhandle**			
BCGSampleID:	**Panh09**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Cricotopus bicinctus	63	Diptera	Chironomidae	
Limnodrilus hoffmeisteri	22	Haplotaxida	Tubificidae	
Lumbriculus variegatus	19	Lumbriculida	Lumbriculidae	
Cricotopus or orthocladius	15	Diptera	Chironomidae	
Bratislavia unidentata	13	Haplotaxida	Naididae	
Physella	9	Basommatophora	Physidae	
Nais pardalis	8	Haplotaxida	Naididae	
Enchytraeidae	2	Haplotaxida		
Dero nivea	2	Haplotaxida	Naididae	
Culicidae	1	Diptera		
Chironomus	1	Diptera	Chironomidae	
Dero trifida	1	Haplotaxida	Naididae	
Pristinella jenkinae	1	Haplotaxida	Naididae	
Argia fumipennis	1	Odonata	Coenagrionidae	
Dero vaga	1	Haplotaxida	Naididae	
Mooreobdella	1	Arhynchobdellida	Erpobdellidae	

Expert:				
Bioregion:	**Panhandle**			
BCGSampleID:	**Panh10**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Limnodrilus hoffmeisteri	86	Haplotaxida	Tubificidae	
Chironomus	80	Diptera	Chironomidae	

Expert:				
Bioregion:	**Peninsula**			
BCGSampleID:	**Pen01**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Limnodrilus hoffmeisteri	27	Haplotaxida	Tubificidae	
Goeldichironomus holoprasinus	15	Diptera	Chironomidae	
Aulodrilus pigueti	13	Haplotaxida	Tubificidae	
Physella	11	Basommatophora	Physidae	
Micromenetus dilatatus	11	Basommatophora	Planorbidae	
Sphaeriidae	6	Veneroida		
Polypedilum illinoense grp.	6	Diptera	Chironomidae	
Dero vaga	5	Haplotaxida	Naididae	
Dero digitata complex	5	Haplotaxida	Naididae	
Pachydiplax longipennis	4	Odonata	Libellulidae	
Cladopelma	3	Diptera	Chironomidae	
Dicrotendipes modestus	3	Diptera	Chironomidae	
Ancylidae	2	Basommatophora		
Hydrocanthus	2	Coleoptera	Noteridae	
Helobdella triserialis	2	Rhynchobdellida	Glossiphoniidae	
Coenagrionidae	1	Odonata		
Gloiobdella elongata	1	Rhynchobdellida	Glossiphoniidae	
Pomacea paludosa	1	Mesogastropoda	Ampullariidae	
Haber speciosus	1	Haplotaxida	Tubificidae	
Planorbella	1	Basommatophora	Planorbidae	

Expert:				
Bioregion:	**Peninsula**			
BCGSampleID:	**Pen02**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Pyrogophorus platyrachis	34	Mesogastropoda	Hydrobiidae	
Cheumatopsyche	33	Trichoptera	Hydropsychidae	
Corbicula fluminea	9	Veneroida	Corbiculidae	
Stenelmis hungerfordi	6	Coleoptera	Elmidae	
Microcylloepus pusillus	6	Coleoptera	Elmidae	
Caenis diminuta	6	Ephemeroptera	Caenidae	
Goeldichironomus holoprasinus	5	Diptera	Chironomidae	
Macromia taeniolata	4	Odonata	Libellulidae	
Hyalella azteca	3	Amphipoda	Hyalellidae	
Pentaneura inconspicua	3	Diptera	Chironomidae	
Pyralidae	2	Lepidoptera		
Ablabesmyia rhamphe grp.	2	Diptera	Chironomidae	
Polypedilum convictum grp.	2	Diptera	Chironomidae	
Polypedilum halterale grp.	2	Diptera	Chironomidae	
Helobdella triserialis	2	Rhynchobdellida	Glossiphoniidae	
Ischnura	1	Odonata	Coenagrionidae	
Polypedilum scalaenum grp.	1	Diptera	Chironomidae	
Polypedilum trigonum	1	Diptera	Chironomidae	
Hydrocanthus regius	1	Coleoptera	Noteridae	
Palaemonetes paludosus	1	Decapoda	Palaemonidae	
Ancylidae	1	Basommatophora		
Stenochironomus	1	Diptera	Chironomidae	
Pelocoris	1	Heteroptera	Naucoridae	
Mesovelia	1	Heteroptera	Mesoveliidae	
Dubiraphia	1	Coleoptera	Elmidae	

Expert:				
Bioregion:	**Peninsula**			
BCGSampleID:	**Pen03**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Pelecypoda	30			
Dubiraphia vittata	29	Coleoptera	Elmidae	
Hydrobiidae	10	Mesogastropoda		
Stenelmis	10	Coleoptera	Elmidae	
Pachydiplax longipennis	5	Odonata	Libellulidae	
Caecidotea	4	Isopoda	Asellidae	
Arrenurus	3	Acariformes	Arrenuridae	
Chironomus	3	Diptera	Chironomidae	
Caenis	2	Ephemeroptera	Caenidae	
Goeldichironomus holoprasinus	2	Diptera	Chironomidae	
Scirtes	2	Coleoptera	Scirtidae	
Kiefferulus	2	Diptera	Chironomidae	
Hyalella azteca	2	Amphipoda	Hyalellidae	
Dicrotendipes simpsoni	2	Diptera	Chironomidae	
Polypedilum halterale grp.	2	Diptera	Chironomidae	
Oniscidae	1	Isopoda		
Microcylloepus pusillus	1	Coleoptera	Elmidae	

Expert:				
Bioregion:	**Peninsula**			
BCGSampleID:	**Pen04**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Polypedilum illinoense grp.	46	Diptera	Chironomidae	
Asheum beckae	12	Diptera	Chironomidae	
Goeldichironomus natans	7	Diptera	Chironomidae	
Melanoides	7	Mesogastropoda	Thiaridae	
Tanytarsus sp. t epler	6	Diptera	Chironomidae	
Argia	6	Odonata	Coenagrionidae	
Hyalella azteca	4	Amphipoda	Hyalellidae	
Limnodrilus hoffmeisteri	3	Haplotaxida	Tubificidae	
Orthemis ferruginea	2	Odonata	Libellulidae	
Ceratopogonidae	2	Diptera		
Cambaridae	2	Decapoda		
Enchytraeidae	2	Haplotaxida		
Hirudinea	2			
Polypedilum tritum	1	Diptera	Chironomidae	
Hydrobiidae	1	Mesogastropoda		
Physella	1	Basommatophora	Physidae	
Chironomus	1	Diptera	Chironomidae	
Larsia	1	Diptera	Chironomidae	
Microvelia	1	Heteroptera	Veliidae	
Planorbidae	1	Basommatophora		

Expert:				
Bioregion:	**Peninsula**			
BCGSampleID:	**Pen05**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Hyalella azteca	53	Amphipoda	Hyalellidae	
Amnicola dalli	10	Mesogastropoda	Bithyniidae	
Baetis propinquus	9	Ephemeroptera	Baetidae	
Cricotopus or orthocladius	8	Diptera	Chironomidae	
Oligochaeta	6			
Cricotopus bicinctus	4	Diptera	Chironomidae	
Microcylloepus pusillus	3	Coleoptera	Elmidae	
Hydroptila	3	Trichoptera	Hydroptilidae	
Polypedilum illinoense grp.	2	Diptera	Chironomidae	
Elimia floridensis	2	Mesogastropoda	Pleuroceridae	
Planorbella duryi	2	Basommatophora	Planorbidae	
Tanytarsus sp. e epler	2	Diptera	Chironomidae	
Rheotanytarsus exiguus grp.	2	Diptera	Chironomidae	
Cheumatopsyche	2	Trichoptera	Hydropsychidae	
Tricorythodes albilineatus	2	Ephemeroptera	Leptohyphidae	
Oecetis	1	Trichoptera	Leptoceridae	
Rheotanytarsus distinctissimus grp.	1	Diptera	Chironomidae	
Polypedilum convictum grp.	1	Diptera	Chironomidae	
Astacidae	1	Decapoda		
Turbellaria	1			
Hydropsyche	1	Trichoptera	Hydropsychidae	
Stenelmis	1	Coleoptera	Elmidae	
Pentaneura inconspicua	1	Diptera	Chironomidae	
Palaemonetes paludosus	1	Decapoda	Palaemonidae	
Rhagovelia choreutes	1	Heteroptera	Veliidae	
Stenochironomus	1	Diptera	Chironomidae	
Palpomyia/bezzia grp.	1	Diptera	Ceratopogonidae	
Hemerodromia	1	Diptera	Empididae	
Baetis intercalaris	1	Ephemeroptera	Baetidae	
Simulium	1	Diptera	Simuliidae	

Expert:				
Bioregion:	**Peninsula**			
BCGSampleID:	**Pen06**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Cheumatopsyche	20	Trichoptera	Hydropsychidae	
Microcylloepus pusillus	15	Coleoptera	Elmidae	
Sphaeriidae(mollusca)	10	Veneroida		
Corbicula fluminea	9	Veneroida	Corbiculidae	
Ablabesmyia rhamphe grp.	6	Diptera	Chironomidae	
Polypedilum scalaenum grp.	4	Diptera	Chironomidae	
Hyalella azteca	4	Amphipoda	Hyalellidae	
Tubificidae	4	Haplotaxida		
Dubiraphia	3	Coleoptera	Elmidae	
Polypedilum illinoense grp.	2	Diptera	Chironomidae	
Hydrobiidae	2	Mesogastropoda		
Cryptochironomus	2	Diptera	Chironomidae	
Polypedilum tritum	2	Diptera	Chironomidae	
Ablabesmyia peleensis	2	Diptera	Chironomidae	
Ablabesmyia mallochi	2	Diptera	Chironomidae	
Stenelmis	2	Coleoptera	Elmidae	
Gloiobdella elongata	2	Rhynchobdellida	Glossiphoniidae	
Polypedilum halterale grp.	1	Diptera	Chironomidae	
Laevapex fuscus	1	Basommatophora	Ancylidae	
Hebetancylus excentricus	1	Basommatophora	Ancylidae	
Argia sedula	1	Odonata	Coenagrionidae	
Micromenetus dilatatus	1	Basommatophora	Planorbidae	
Laevapex peninsulae	1	Basommatophora	Ancylidae	
Clinotanypus	1	Diptera	Chironomidae	
Astacidae	1	Decapoda		
Dineutus	1	Coleoptera	Gyrinidae	

Expert:				
Bioregion:	**Peninsula**			
BCGSampleID:	**Pen07**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Hyalella azteca	21	Amphipoda	Hyalellidae	
Caenis	15	Ephemeroptera	Caenidae	
Neotrichia	10	Trichoptera	Hydroptilidae	
Pyrogophorus platyrachis	8	Mesogastropoda	Hydrobiidae	
Limnodrilus hoffmeisteri	7	Haplotaxida	Tubificidae	
Tribelos fuscicornis	7	Diptera	Chironomidae	
Pisidiidae	5	Veneroida		
Ablabesmyia mallochi	3	Diptera	Chironomidae	
Tanytarsus sp. g epler	2	Diptera	Chironomidae	
Polypedilum scalaenum grp.	2	Diptera	Chironomidae	
Polypedilum halterale grp.	2	Diptera	Chironomidae	
Rheotanytarsus distinctissimus grp.	2	Diptera	Chironomidae	
Stenochironomus	2	Diptera	Chironomidae	
Larsia decolorata	2	Diptera	Chironomidae	
Tanytarsus sp. d epler	2	Diptera	Chironomidae	
Tanytarsus sp. e epler	2	Diptera	Chironomidae	
Tanytarsus sp. t epler	2	Diptera	Chironomidae	
Ablabesmyia (karelia) grp.	1	Diptera	Chironomidae	
Palpomyia/bezzia grp.	1	Diptera	Ceratopogonidae	
Cernotina	1	Trichoptera	Polycentropodidae	
Clinotanypus	1	Diptera	Chironomidae	
Oecetis	1	Trichoptera	Leptoceridae	
Micromenetus	1	Basommatophora	Planorbidae	
Cladotanytarsus	1	Diptera	Chironomidae	
Cryptochironomus	1	Diptera	Chironomidae	
Polypedilum illinoense grp.	1	Diptera	Chironomidae	
Ablabesmyia rhamphe grp.	1	Diptera	Chironomidae	
Nanocladius	1	Diptera	Chironomidae	
Microcylloepus pusillus	1	Coleoptera	Elmidae	

Expert:				
Bioregion:	**Peninsula**			
BCGSampleID:	**Pen08**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Stenelmis	18	Coleoptera	Elmidae	
Caenis	13	Ephemeroptera	Caenidae	
Oecetis	12	Trichoptera	Leptoceridae	
Tribelos fuscicornis	11	Diptera	Chironomidae	
Polypedilum convictum grp.	6	Diptera	Chironomidae	
Dubiraphia	5	Coleoptera	Elmidae	
Cheumatopsyche	5	Trichoptera	Hydropsychidae	
Macromia taeniolata	4	Odonata	Libellulidae	
Limnodrilus hoffmeisteri	4	Haplotaxida	Tubificidae	
Cryptochironomus	4	Diptera	Chironomidae	
Argia	3	Odonata	Coenagrionidae	
Ablabesmyia rhamphe grp.	2	Diptera	Chironomidae	
Acerpenna pygmaea	2	Ephemeroptera	Baetidae	
Hyalella azteca	2	Amphipoda	Hyalellidae	
Hemerodromia	2	Diptera	Empididae	
Neotrichia	2	Trichoptera	Hydroptilidae	
Cernotina	2	Trichoptera	Polycentropodidae	
Ancylidae	2	Basommatophora		
Enchytraeidae	2	Haplotaxida		
Tricorythodes albilineatus	1	Ephemeroptera	Leptohyphidae	
Polypedilum scalaenum grp.	1	Diptera	Chironomidae	
Ablabesmyia (karelia) grp.	1	Diptera	Chironomidae	
Planorbidae	1	Basommatophora		
Heptageniidae	1	Ephemeroptera		
Enallagma	1	Odonata	Coenagrionidae	
Triaenodes	1	Trichoptera	Leptoceridae	
Dineutus	1	Coleoptera	Gyrinidae	
Gammarus	1	Amphipoda	Gammaridae	
Pisidiidae	1	Veneroida		
Hydrobiidae	1	Mesogastropoda		
Nyctiophylax	1	Trichoptera	Polycentropodidae	
Stenochironomus	1	Diptera	Chironomidae	
Palpomyia/bezzia grp.	1	Diptera	Ceratopogonidae	
Polypedilum illinoense grp.	1	Diptera	Chironomidae	

Expert:				
Bioregion:	**Peninsula**			
BCGSampleID:	**Pen09**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Dero pectinata	61	Haplotaxida	Naididae	
Einfeldia sp. a epler	23	Diptera	Chironomidae	
Nais communis	8	Haplotaxida	Naididae	
Pristina aequiseta	7	Haplotaxida	Naididae	
Hyalella azteca	7	Amphipoda	Hyalellidae	
Pristina leidyi	4	Haplotaxida	Naididae	
Tanypus carinatus	4	Diptera	Chironomidae	
Larsia decolorata	4	Diptera	Chironomidae	
Enallagma	3	Odonata	Coenagrionidae	
Chironomus	3	Diptera	Chironomidae	
Dasyhelea	2	Diptera	Ceratopogonidae	
Haemonais waldvogeli	2	Haplotaxida	Naididae	
Caenis	2	Ephemeroptera	Caenidae	
Arrenurus	2	Acariformes	Arrenuridae	
Suphisellus insularis	2	Coleoptera	Noteridae	
Palaemonetes paludosus	2	Decapoda	Palaemonidae	
Bratislavia unidentata	2	Haplotaxida	Naididae	
Allonais paraguayensis	2	Haplotaxida	Naididae	
Slavina appendiculata	2	Haplotaxida	Naididae	
Celina	1	Coleoptera	Dytiscidae	
Parakiefferiella sp. c epler	1	Diptera	Chironomidae	
Planorbidae	1	Basommatophora		
Unionicola	1	Acariformes	Unionicolidae	
Limnesia	1	Acariformes	Limnesiidae	
Physella	1	Basommatophora	Physidae	
Turbellaria	1			
Tanytarsus sp. c epler	1	Diptera	Chironomidae	
Polypedilum trigonum	1	Diptera	Chironomidae	
Mesonoterus	1	Coleoptera	Noteridae	
Pseudochironomus	1	Diptera	Chironomidae	
Notomicrus nanulus	1	Coleoptera	Noteridae	
Limnodrilus hoffmeisteri	1	Haplotaxida	Tubificidae	

Expert:				
Bioregion:	**Peninsula**			
BCGSampleID:	**Pen10**			
Initial Score:				
Final Score:				
Scientific Name	***Noind***	***Order***	***Family***	***Comments***
Goeldichironomus holoprasinus	92	Diptera	Chironomidae	
Anax junius	6	Odonata	Aeshnidae	
Ischnura	4	Odonata	Coenagrionidae	
Tabanidae	2	Diptera		
Odontomyia	2	Diptera	Stratiomyidae	
Paramerina	1	Diptera	Chironomidae	
Libellula semifasciata	1	Odonata	Libellulidae	
Suphis inflatus	1	Coleoptera	Noteridae	
Culicidae	1	Diptera		
Tanypus carinatus	1	Diptera	Chironomidae	

Appendix A8. Memo to FDEP Regarding Interval and Equivalence Tests for the SCI

Cross-references:

Appendix B-14: Memo to FDEP Regarding Interval and Equivalence Tests for the SCI. U.S. EPA. 2010. *Technical Support Document for U.S. EPA's Proposed Rule for Numeric Nutrient Criteria for Florida's Inland Surface Fresh Waters. Water Quality Standards for the State of Florida's Lakes and Flowing Waters. Proposed Rule*. January 14, 2010. EPA-HQ-OW-2009-0596, FRL-9105-1.

Appendix 3-C. U.S.EPA. 2009. Proposed Methods and Approaches for Developing Numeric Nutrient Criteria for Florida's Inland Waters. United States Environmental Protection Agency, Office of Water, Office of Science and Technology, Health and Ecological Criteria Division, Washington, DC.

Memo to FDEP Regarding Interval and Equivalence Tests for the SCI

(Appendix 3-C from USEPA. 2009. *Proposed Methods and Approaches for Developing Numeric Nutrient Criteria for Florida's Inland Waters*. United States Environmental Protection Agency, Office of Water, Office of Science and Technology, Health and Ecological Criteria Division, Washington, DC.)

Appendix 3-C

Memo from Leska Fore regarding interval and equivalence tests for the Stream Condition Index

Statistical Design

136 NW 40th St.
Seattle, WA 98107
(206) 708-5048

MEMORANDUM

DATE: April 9, 2009

TO: Russ Frydenborg, Florida DEP

FROM: Leska Fore, Statistical Design

RE: Statistical Framework for Defining Impairment for SCI

Objective

Identify a statistical test and approach for defining impairment status for the case in which a single test site is compared to a distribution of reference sites. Florida DEP's stream condition index (SCI) for macroinvertebrate stream samples is used as a case study.

Why use a statistical framework?

- A statistical model provides a hypothesis and a decision rule for determining whether a test site differs from reference condition.
- Uncertainty associated with an impairment decision can be estimated.
- Type I (true reference site called impaired) and Type II (true impaired site called reference) error can be compared and balanced to be equally protective of the resource and the regulated community.
- Provides a framework for future, unforeseen questions and needs, for example, how to deal with two replicate visits to a test site.
- Methods are symmetric in that they can be equally applied to de-listing or listing a site as impaired.
- Makes listing decisions more robust to legal challenge.

Statistical decision ≠ Stakeholder decision

Defining a threshold for biological impairment involves scientific information and social values. Statistics can support this decision, but cannot ultimately be used to make the

decision. Once a threshold has been defined, a statistical framework can be used to structure the decision process around the line of impairment.

This document addresses the statistical uncertainty around the threshold line.

Criteria for selection of a statistical framework

- Applicable to our situation: comparison of one test site to a reference population.
- Legally and statistically defensible.
- Provides estimate of uncertainty associated with impairment status calls.
- Can estimate false positive and negative rates.
- Can be used to model the effect of repeat visits to a site.

Candidate statistical tests

Much of the literature related to threshold testing for environmental compliance addresses the comparison of water chemistry samples to a threshold (SWRCB, 2004). This testing scenario for chemical contaminants is somewhat the opposite from our situation in that contaminant thresholds are defined as a single value with no associated uncertainty, that is, no set of values from reference sites. For biocriteria, thresholds are derived from a population of reference sites, not a single value. Furthermore, water chemistry test sites have multiple samples rather than a single value as is typical for biocriteria.

For water chemistry, the variability is associated with the test site rather than the reference sites. In contrast, for biocriteria we are comparing one test site value to multiple reference site values. Expectations for biocriteria are based on local reference condition while thresholds for toxics and contaminants tend to be expressed as a single threshold that is nationally applied. Most of the papers related to statistical testing for thresholds address the chemical contaminant model.

An alternative approach for biocriteria threshold testing was described by Kilgour et al. (1998). Their method was based on interval and equivalence tests. Both tests can be used to evaluate whether an observation at a test location falls within or outside of the normal range of variation for reference locations. When results from the tests are interpreted together, errors due to false positives and negatives are equally likely.

Table 1. Candidate statistical tests for comparing SCI values at a test site to a threshold derived from reference sites.

Test name	Application to biocriteria threshold
Recommended: Combination of interval and equivalence tests (Kilgour et al., 1998)	Both tests are designed to compare 1 test site against a population of reference sites; pair of tests controls for both Type I and Type II error
Two-sample t test	Assumes multiple samples from both the test population and the reference population
One-sample t test	Comparison to the mean, not to percentiles of the distribution; low power to detect differences
One-sample Wilcoxon signed rank test	Nonparametric analog to one-sample t test, compares median of a test population to a threshold; not designed to compare percentiles
Confidence interval around a proportion (Gibbons, 2001)	Designed to test what proportion of test samples exceed a threshold; multiple test samples, one reference threshold
Exact binomial test	Widely recommended for chemical testing of % exceedances of a threshold; compares multiple test values to a single reference value

Interval and Equivalence Testing

The specific statistical methods described by Kilgour et al. (1998) are not particularly novel, i.e., the comparison of a statistic to the noncentral F distribution, but the pairing of two tests (interval and equivalence tests) and the application to bioassessment endpoints represents a new approach. Their approach was developed specifically for the comparison of a single test site to a population of reference sites for measures of biological condition.

Both the interval and the equivalence tests can be applied to the comparison of a single test site value with values from a population of reference sites. Both tests have a low Type I error rate (false positive), but they can be used to balance false positives and negatives because they test the *opposite* null hypotheses. The interval null hypothesis tests for *difference* from reference and the equivalence null hypothesis tests for *equality* to reference (Table 2). In this way, the tests are symmetric. By pairing these two tests, we can balance for the error rates associated with falsely determining a reference site to be impaired (Type I) and missing a site that is truly impaired (Type II; Appendix A).

Although not relevant for this application to the SCI, the approach can also be generalized to a multivariate comparison of multiple indicators (e.g., metrics) against their respective thresholds (Bowman and Somers, 2006).

Table 2. Comparison of the interval and equivalence tests, hypotheses tested by each and their advantages and disadvantages relative to decisions about impairment.

Statistical test	H_O	H_A	Advantages	Disadvantages
Interval test	Test site *is* within the range of reference sites	Test site *is not* within the range of reference sites	Protects the polluter (guards against unnecessary listing)	Not as sensitive at detecting impairment
Equivalence test	Test site *is not* within the range of reference sites	Test site *is* within the range of reference sites	Protects the environment (very sensitive to impairment)	Very sensitive and may identify reference sites as impaired

How do we specify the test?

Both tests use the same test statistic, the familiar F-statistic. Because we are testing for differences not from the mean, but for some distance from the mean, e.g., the 10^{th} percentile (our defined threshold), we need to use a noncentral F test. The null and alternate hypotheses are mirror images of each for the interval and equivalence tests.

Interval test

The *null* hypothesis is that the test and reference sites are the *same*. The *alternative* hypothesis is that test and reference sites are the *different*.

H_O (null): $\left(\mu_{ref} - T\right) \leq \delta$, or "The difference between the mean SCI of the reference sites and the SCI at the test site is less than delta." Delta can be any specified value, e.g., the 10^{th} percentile of SCI values for reference sites.

H_A (alternate): $\left(\mu_{ref} - T\right) > \delta$, or "The test site is more different than the specified difference (delta) from the mean SCI."

Equivalence test

The *null* hypothesis is that the test and reference sites are *different*. The *alternative* hypothesis is that test and reference sites are the *same*.

H_O: $\left(\mu_{ref} - T\right) \geq \delta$, or "The difference between the mean SCI of the reference sites and the SCI at the test site is more than delta."

H_A: $\left(\mu_{ref} - T\right) < \delta$, or "The test site is not different from the specified difference from the mean SCI for reference sites."

Test statistic

$$F = \frac{\left(\overline{X}_{ref} - T\right)^2}{\left(s_{ref}\sqrt{\frac{1}{n_{ref}}}\right)^2}$$

How does statistical test work?

Suppose we go to a stream site and sample for SCI and calculate a value of 46 out of a possible range of values from 0–100. We want to compare this observed value to the 10th percentile of SCI values for reference sites (Table 3). The 10th percentile is derived from an assumption that reference sites follow an approximately normal distribution. The table value for the 10th percentile of a normal distribution (–1.28) is used to define 10th percentile of the reference distribution. This z-table value is also used to define the noncentrality parameter, lambda.

We calculate the F-statistic and use a statistical program (e.g., R or Excel) to look up the p-value associated with the F-statistic with 1 and 63 degrees of freedom and determine that we can reject the interval test and conclude that the test site is different from reference condition.

Table 3. Worked example for comparing SCI at a test site to SCI values at reference sites.

Description	Value
Mean SCI (reference sites)	66.3
Standard deviation of SCI (reference sites)	12.6
Number of reference sites	64
10th Percentile of SCI (reference sites)	66.3–(1.28*12.6) = 50
SCI for test site	46
Standardized z-value for 10th percentile of reference (one-tailed test); used to define difference (delta) we are testing for	–1.28

F-statistic	$\frac{(66.3-46)^2}{\left(12.6\sqrt{\frac{1}{64}}\right)^2} = 166.1$
Degrees of freedom	(1, 63)
Lambda, noncentrality parameter; this value represents how far from the mean the test site should be, i.e., lower than the 10th percentile	$64 * (1.28)^2 = 104.9$
p-value for F-statistic (interval test)	p = 0.04, significantly lower than the 10th %tile of reference
Conclusion	"We are 95% confident the test site is impaired with impairment defined as below the 10th percentile of reference."

Statistical Decision Rules for SCI

We can use the statistical framework of interval and equivalence testing to estimate uncertainty for SCI values at a test site based on different definitions of impairment.

Table 4. Statistical decision rules for SCI values at a test site for threshold values defined as the 1st, 5th, and 10th percentiles of SCI values for reference sites. Shown are values for $p < 0.05$. N = 1 SCI value for each site.

Impairment threshold (description)	Impairment threshold (numeric)	Impaired	Undetermined	Reference
2.5th percentile of reference	42	<37	37–45	>45
5th percentile of reference	46	<41	41–49	>49
10th percentile of reference	50	<47	47–53	>53

Summary

- Caveat: Statistical tests provide a framework for comparison and testing around a threshold, but cannot be used alone to define impairment thresholds. That decision also relies on scientific understanding and social values.

The method described here combines two statistical tests, the interval test and the equivalence test, to compare a single test site value to a set of values from a population of reference sites. This approach satisfies most of our criteria for a statistical framework for

a biocriteria threshold. Pairing the interval and equivalence tests to evaluate percentiles from the reference site distribution represents a simple statistical decision rule that is easy to describe and legally defensible. We can estimate error rates for false positives and false negatives and balance them. The method is symmetric and can be easily inverted for delisting without any change to Type I or Type II errors.

This approach does not deal explicitly with the case in which more than one sample value is collected from a test site. This problem could be addressed in two ways. For the simple case of two repeat visits to a test site, a new distribution of reference sites could be developed based on the average SCI value for two repeat visits to each reference site. These could be the most recent visit or two visits that were randomly chosen.

A more general approach to incorporating test site variability could be accomplished with a simulation. Using our estimate of within-site variability, a distribution around point estimates of SCI could be defined. Repeat sampling from this distribution could be used to generate a distribution of F-statistics. In this way, we could model the variability associated with a single SCI for a test site.

Combining the interval and equivalence tests provides a statistical framework to support impairment decisions, and is particularly suited to biocriteria because a single test value is compared to a population of reference values.

Appendix A

Example showing application of interval and equivalence testing for determining the status of a test site. The threshold for impairment is defined as the 10th percentile of SCI values for reference sites. Shown are the SCI value, difference between mean of reference and SCI, numerator and denominator for the F statistic, F, p-value for F for the interval and equivalence tests, status call, and result for the interval and equivalence tests. See Table 3 for values used in calculations. SCI values greater than or equal to the mean for reference sites (SCI = 66–100) are not shown.

SCI	Mu-imp	F_Num	F_Den	F	P_Int	P_Equ	STATUS	Interv.	Equiv.
1	65.3	4264.1	2.48	1719.0	0.00	1.00	IMPAIRED	>delta	>=delta
2	64.3	4134.5	2.48	1666.7	0.00	1.00	IMPAIRED	>delta	>=delta
3	63.3	4006.9	2.48	1615.3	0.00	1.00	IMPAIRED	>delta	>=delta
4	62.3	3881.3	2.48	1564.6	0.00	1.00	IMPAIRED	>delta	>=delta
5	61.3	3757.7	2.48	1514.8	0.00	1.00	IMPAIRED	>delta	>=delta
6	60.3	3636.1	2.48	1465.8	0.00	1.00	IMPAIRED	>delta	>=delta
7	59.3	3516.5	2.48	1417.6	0.00	1.00	IMPAIRED	>delta	>=delta
8	58.3	3398.9	2.48	1370.2	0.00	1.00	IMPAIRED	>delta	>=delta
9	57.3	3283.3	2.48	1323.6	0.00	1.00	IMPAIRED	>delta	>=delta
10	56.3	3169.7	2.48	1277.8	0.00	1.00	IMPAIRED	>delta	>=delta
11	55.3	3058.1	2.48	1232.8	0.00	1.00	IMPAIRED	>delta	>=delta
12	54.3	2948.5	2.48	1188.6	0.00	1.00	IMPAIRED	>delta	>=delta
13	53.3	2840.9	2.48	1145.2	0.00	1.00	IMPAIRED	>delta	>=delta
14	52.3	2735.3	2.48	1102.7	0.00	1.00	IMPAIRED	>delta	>=delta
15	51.3	2631.7	2.48	1060.9	0.00	1.00	IMPAIRED	>delta	>=delta
16	50.3	2530.1	2.48	1019.9	0.00	1.00	IMPAIRED	>delta	>=delta
17	49.3	2430.5	2.48	979.8	0.00	1.00	IMPAIRED	>delta	>=delta

SCI	Mu-imp	F_Num	F_Den	F	P_Int	P_Equ	STATUS	Interv.	Equiv.
18	48.3	2332.9	2.48	940.4	0.00	1.00	IMPAIRED	>delta	>=delta
19	47.3	2237.3	2.48	901.9	0.00	1.00	IMPAIRED	>delta	>=delta
20	46.3	2143.7	2.48	864.2	0.00	1.00	IMPAIRED	>delta	>=delta
21	45.3	2052.1	2.48	827.2	0.00	1.00	IMPAIRED	>delta	>=delta
22	44.3	1962.5	2.48	791.1	0.00	1.00	IMPAIRED	>delta	>=delta
23	43.3	1874.9	2.48	755.8	0.00	1.00	IMPAIRED	>delta	>=delta
24	42.3	1789.3	2.48	721.3	0.00	1.00	IMPAIRED	>delta	>=delta
25	41.3	1705.7	2.48	687.6	0.00	1.00	IMPAIRED	>delta	>=delta
26	40.3	1624.1	2.48	654.7	0.00	1.00	IMPAIRED	>delta	>=delta
27	39.3	1544.5	2.48	622.6	0.00	1.00	IMPAIRED	>delta	>=delta
28	38.3	1466.9	2.48	591.3	0.00	1.00	IMPAIRED	>delta	>=delta
29	37.3	1391.3	2.48	560.9	0.00	1.00	IMPAIRED	>delta	>=delta
30	36.3	1317.7	2.48	531.2	0.00	1.00	IMPAIRED	>delta	>=delta
31	35.3	1246.1	2.48	502.3	0.00	1.00	IMPAIRED	>delta	>=delta
32	34.3	1176.5	2.48	474.3	0.00	1.00	IMPAIRED	>delta	>=delta
33	33.3	1108.9	2.48	447.0	0.00	1.00	IMPAIRED	>delta	>=delta
34	32.3	1043.3	2.48	420.6	0.00	1.00	IMPAIRED	>delta	>=delta
35	31.3	979.7	2.48	394.9	0.00	1.00	IMPAIRED	>delta	>=delta
36	30.3	918.1	2.48	370.1	0.00	1.00	IMPAIRED	>delta	>=delta
37	29.3	858.5	2.48	346.1	0.00	1.00	IMPAIRED	>delta	>=delta
38	28.3	800.9	2.48	322.9	0.00	1.00	IMPAIRED	>delta	>=delta
39	27.3	745.3	2.48	300.4	0.00	1.00	IMPAIRED	>delta	>=delta
40	26.3	691.7	2.48	278.8	0.00	1.00	IMPAIRED	>delta	>=delta
41	25.3	640.1	2.48	258.0	0.00	1.00	IMPAIRED	>delta	>=delta
42	24.3	590.5	2.48	238.0	0.00	1.00	IMPAIRED	>delta	>=delta
43	23.3	542.9	2.48	218.9	0.00	1.00	IMPAIRED	>delta	>=delta
44	22.3	497.3	2.48	200.5	0.01	0.99	IMPAIRED	>delta	>=delta
45	21.3	453.7	2.48	182.9	0.02	0.98	IMPAIRED	>delta	>=delta
46	20.3	412.1	2.48	166.1	0.04	0.96	IMPAIRED	>delta	>=delta
47	19.3	372.5	2.48	150.2	0.09	0.91	Undetermined	<=delta	>=delta
48	18.3	334.9	2.48	135.0	0.18	0.82	Undetermined	<=delta	>=delta
49	17.3	299.3	2.48	120.7	0.31	0.69	Undetermined	<=delta	>=delta
50	16.3	265.7	2.48	107.1	0.48	0.52	Undetermined	<=delta	>=delta
51	15.3	234.1	2.48	94.4	0.67	0.33	Undetermined	<=delta	>=delta
52	14.3	204.5	2.48	82.4	0.82	0.18	Undetermined	<=delta	>=delta
53	13.3	176.9	2.48	71.3	0.93	0.07	Undetermined	<=delta	>=delta
54	12.3	151.3	2.48	61.0	0.98	0.02	REFERENCE	<=delta	<delta
55	11.3	127.7	2.48	51.5	1.00	0.00	REFERENCE	<=delta	<delta
56	10.3	106.1	2.48	42.8	1.00	0.00	REFERENCE	<=delta	<delta
57	9.3	86.5	2.48	34.9	1.00	0.00	REFERENCE	<=delta	<delta
58	8.3	68.9	2.48	27.8	1.00	0.00	REFERENCE	<=delta	<delta
59	7.3	53.3	2.48	21.5	1.00	0.00	REFERENCE	<=delta	<delta
60	6.3	39.7	2.48	16.0	1.00	0.00	REFERENCE	<=delta	<delta
61	5.3	28.1	2.48	11.3	1.00	0.00	REFERENCE	<=delta	<delta
62	4.3	18.5	2.48	7.5	1.00	0.00	REFERENCE	<=delta	<delta
63	3.3	10.9	2.48	4.4	1.00	0.00	REFERENCE	<=delta	<delta
64	2.3	5.3	2.48	2.1	1.00	0.00	REFERENCE	<=delta	<delta
65	1.3	1.7	2.48	0.7	1.00	0.00	REFERENCE	<=delta	<delta
66	0.3	0.1	2.48	0.0	1.00	0.00	REFERENCE	<=delta	<delta

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Appendix A9. Mapping Continuous Biological Index Values to BCG Tiers

Cross-reference:

Appendix B-13. Mapping Continuous Biological Index Values to BCG Tiers. U.S. EPA. 2010. *Technical Support Document for U.S. EPA's Proposed Rule for Numeric Nutrient Criteria for Florida's Inland Surface Fresh Waters. Water Quality Standards for the State of Florida's Lakes and Flowing Waters. Proposed Rule*. January 14, 2010. EPA-HQ-OW-2009-0596, FRL-9105-1.

Mapping Continuous Biological Index Values to BCG Tiers

Appendix B-13. Mapping Continuous Biological Index Values to BCG Tiers

The Florida Department of Environmental Protection (FDEP) conducted a workshop to calibrate a biological condition gradient (BCG) using macroinvertebrate data collected from streams in Florida. During the workshop, macroinvertebrate samples (a list of taxa and their abundances) from 30 streams spanning the human disturbance gradient were provided to a panel of 22 biologists with expertise and experience with Florida streams. Each biologist then assigned each sample to one of the six BCG tiers. A stream condition index value (SCI) was also computed for each sample, but this SCI value was not provided to the biologists during the calibration workshop.

BCG tiers represent categories of stream condition, ranging from "as naturally occurs" (Tier 1) to "severely degraded" (Tier 6). Modeling the relationship between the SCI value associated with each sample and the BCG tiers assigned to the sample requires that one taken into account the categorical nature of the data. One approach for modeling the relationship between a continuous variable (e.g., SCI) and a categorical response (e.g., BCG tier) is a proportional odds logistic regression model (Guisan and Harrell 2000). This model estimates the cumulative probability of a site's being assigned to a given tier (e.g., Tier 3) or to any higher-quality tier (Tier 1 or 2). The model equation can be written as follows:

$$\ln\left(\frac{g_j}{1-g_j}\right) = a_j - b(SCI) \qquad \text{Eqn. B13-1}$$

Where *gj* is the probability of a site's being assigned to Tiers 1 through *j*, and *j* ranges from 1 to 5. Note that the regression coefficient, *aj*, can differ depending on the value of *j*, but the regression coefficient that scales the effects of SCI is constant for all tiers. Five parallel models are fit, modeling the probability of assignment to Tiers 5 to 1, Tiers 4 to 1, Tiers 3 to 1, Tiers 2 to 1, and Tier 1 only. Once these five models are fit, the probability of assignment to any single tier can be extracted from the model results.

In Figure B13-1, the mean predictions of a proportional odds logistic regression model are plotted as solid lines. The lines are color-coded and labeled by different tiers, and each line can be interpreted as the proportion of experts that assigned samples with the indicated SCI value to a particular tier. For example, approximately 90% of experts assigned a sample with SCI = 0 to Tier 6 (brown line), while the remaining 10% of experts assigned the sample to Tier 5 (purple line). The solid circles represent the actual expert assignments recorded from the workshop for each SCI value. The size of the circle is proportional to the number of experts that assigned a sample to a particular tier, and the circles are color-coded by tier.

Expert consensus in tier assignments was high for very degraded sites. That is, sites with SCI < 15 were assigned only to Tier 5 or 6. Consequently, the maximum values for the curves for Tiers 6 and 5 were relatively high. Similarly, expert consensus was high for high-quality sites because most sites with SCI > 58 were scored as Tier 1 or 2. The range of expert assignments at mid-range SCI values was much broader.

At the workshop, experts were also asked to identify a point on the BCG where they thought streams were impaired, and approximately half the experts identified the transition between Tier 4 and Tier 5 as the impairment threshold. The other half identified the boundary between Tier 3 and Tier 4 as the impairment threshold. Most experts also agreed that Tiers 1 and 2 corresponded to reference conditions.

One approach for using the results from the BCG calibration workshop to support a biocriterion threshold established by candidate reference sites is to identify an SCI value that corresponds with both a low probability of assignment to Tier 5 (impaired) and corresponds with a low probability of assignment to Tier 2 (reference conditions). For these data, this point occurs at approximately SCI = 40–44, where both the purple and the blue lines are low (i.e., less than about 0.15). In a sense, thresholds selected in this range of values balance the probability of mistakenly assessing a degraded site as meeting aquatic life use goals with the probability of mistakenly assessing a reference site as impaired.

The same modeling approach can be applied to expert assignments of lake vegetation samples to a BCG. Here, lake vegetation can also be summarized as a Lake Vegetation Index (LVI).

The consensus among experts was somewhat weaker compared to the results for the SCI. For example, most experts assigned the lake with the highest LVI value (LVI = 94) to Tier 1 or 2, but one expert assigned it to Tier 4. Similarly, at the other end of the condition gradient, a lake with LVI = 18 was assigned by experts to Tiers 3–6.

The same logic can be applied to interpreting these results to support criterion selection. In this case, the probabilities of assignment to Tiers 5 and 2 were less than about 0.15 for LVI = 50–58.

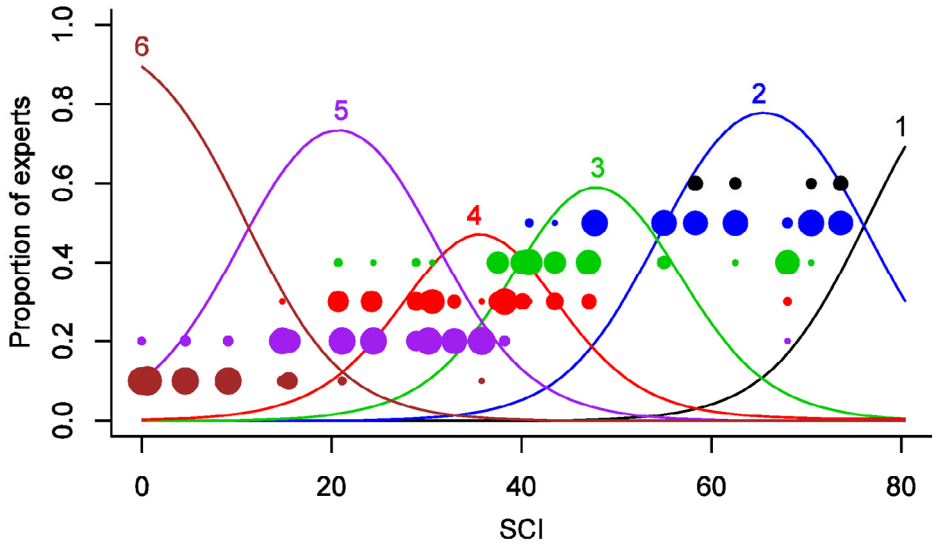

Figure B13-1. BCG tier assignments modeled with a proportional odds logistic regression.

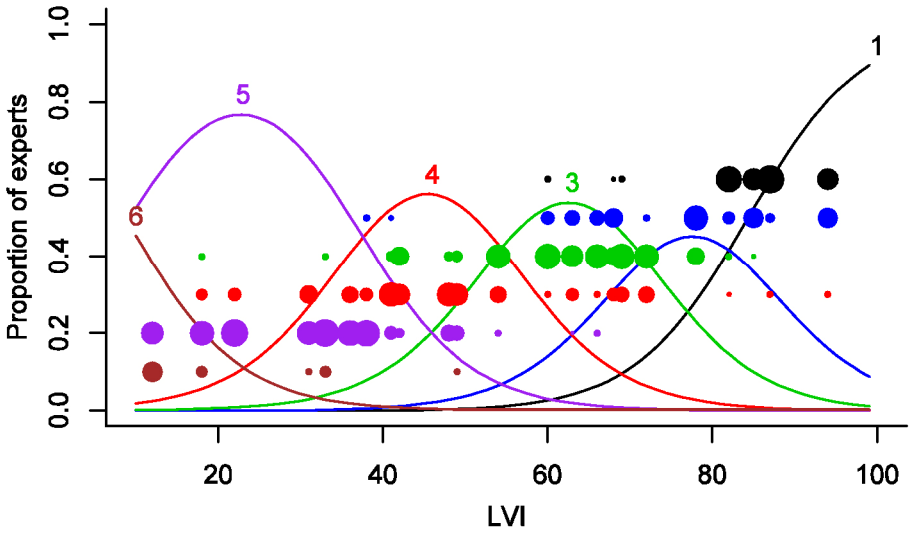

Figure B13-2. BCG tier assignments based on lake vegetation. LVI: Lake Vegetation Index.