

MIDDLE GEORGIA CLEAN AIR COALITION

Path Forward



Advance Program

2015

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1.0 Introduction

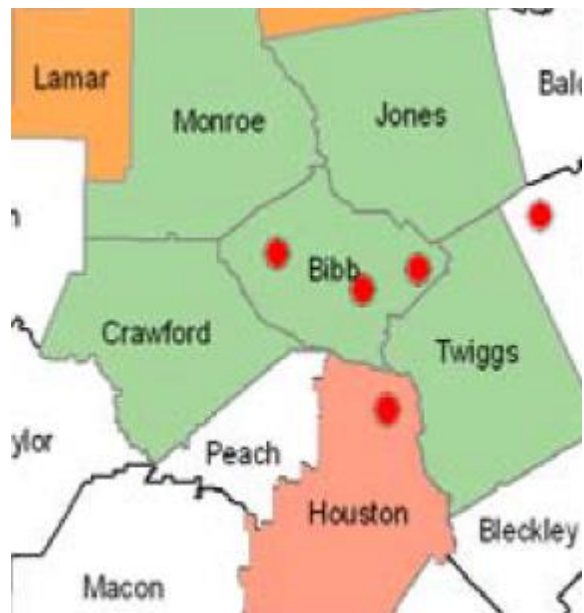
The “Advance” program is an expansion of the U.S. Environmental Protection Agency’s (EPA’s) cooperative efforts with states, tribes, and local governments to encourage actions that result in reduced emissions of pollutants that cause high levels of ground-level ozone and fine particulate matter (PM_{2.5}) to enable continued compliance with the National Ambient Air Quality Standards (NAAQS). The program targets areas that have ambient levels of ozone or PM_{2.5}, or both, close to the NAAQS and are thus at risk of violating standards. In such areas, the program assists in efforts to reduce air pollution, ensure continued healthy air quality levels, avoid NAAQS violations, and increase public awareness regarding ground level ozone and PM_{2.5} as air pollutants. As a participant in the Advance program, the Middle Georgia Clean Air Coalition has prepared this “Path Forward” document to describe the measures and programs that the Middle Georgia area will implement to meet the Advance program goals and to provide a schedule for implementation of each measure and program. This “Path Forward” document should be understood as a living document that will continue to evolve and be revised annually as the program progresses.

At ground level, ozone is a secondary pollutant, meaning that it is not directly emitted into the air but is formed by chemical reactions between oxides of nitrogen (NO_x) and volatile organic compounds (VOC) in the presence of sunlight. Thus, NO_x and VOC are called “formative” emissions or “precursors” to ozone formation. Major sources of the emissions of either NO_x or VOC, or both, are industrial facilities, electric utilities, motor vehicle exhaust, gasoline vapors, and chemical solvents. Exposure to certain levels of ozone can cause health problems, including respiratory problems like coughs and respiratory irritation as well as aggravating asthma symptoms.

Particulate matter (PM) is a complex mixture of extremely small particles and liquid droplets made up of a number of components, including acids (such as nitrates and sulfates), organic chemicals, metals, and soil or dust particles. These particles can be directly emitted from sources such as forest fires, or they can form when gases emitted from power plants, industries and automobiles react in the air. The EPA has set health standards for fine particles (less than 2.5 micrometers in diameter), or PM_{2.5}, because they are small enough to get deep into the lungs and cause serious health problems such as, premature death in people with heart or lung disease, aggravated asthma, and decreased lung function.

As seen below, Middle Georgia is located at the fall line between the Piedmont and coastal plains. As such, the area is affected by the particular geography and meteorology of the region. A Georgia Tech study in 2004 stated “For the Macon area, the DDM-3D source apportionment results show that Macon’s air quality is affected by a variety of sources both nearby and more distant. Power plants Branch and Scherer to the north, and many categories of sources in Atlanta (ATL) even further to the north contribute to Macon’s ozone collectively as much, and sometimes more than, sources local to the Macon (MAC) area.” (Fall Line Air Quality Study, 2004.) The study also noted that these results are highly variable and subject to the geographic relationship between sources and receptors, and the direction and speed of the winds and other atmospheric dynamics.





Middle Georgia, which is about 90 miles south of Atlanta, has two major interstate highways that intersect in the region: I-75 running north and south, and I-16 running east and west. The Port of Savannah is connected to markets via I-16, and I-75 and is a major artery that connects Florida to points north. Since the Central Georgia region is a pivotal intersection of the Port of Savannah, the Atlanta region, and North-South interchange of I-75, it has become a warehousing and distribution hub to several large companies such as, Kohl's, Bass Pro Shops, Sara Lee, and Academy Sports. In addition, a number of historic sites and major rivers draw tourists to the region and have created a heritage and ecotourism cluster.

The industry and economy in the Central Georgia region has concentrated on the aerospace industry cluster and the importance of Robins Air Force Base. The major multi-national employers in the aerospace cluster in the Central Georgia region are; Boeing, BAE Systems, Northrup Grumman, Lockheed Martin, and Bombardier. The aerospace industry provides high-skill, high-wage jobs and is an important cluster for the region to foster.

Additional industry clusters in the Central Georgia region, other than the aerospace cluster, include healthcare and hospitals; kaolin; warehousing and distribution; and heritage and ecotourism. The clusters of kaolin, warehousing and distribution, and heritage and ecotourism look to capitalize on the location and local assets of the Central Georgia region. Kaolin is a white clay mineral used in household items and is extracted from the region.

2.0 Middle Georgia Clean Air Coalition

"The holy grail of the Clean Air Act"-

--Joe Goffman, Associate Administrator and Senior Counsel, Office of Air and Radiation, Administrator and Senior Counsel, Office of Air and Radiation, EPA

On December 3, 2003 the US Environmental Protection Agency (EPA) announced their intent to designate Houston, Monroe and Bibb counties as non-attainment for the new 8-hour ozone National Ambient Air Quality Standard (NAAQS). As part of its efforts to improve the air quality, Middle Georgia (seven counties and 13 cities) formed the Middle Georgia Clean Air Coalition (MGCAC) and is now partnering with EPA through the Advance Program. The MGCAC has been operating

continuously over the last 10 years with regular meetings of the elected officials and other key stakeholders to address air quality issues.

The goal of the local governments that created the Middle Georgia Clean Air Coalition was to improve air quality in the Middle Georgia region, to protect the health of their citizens, and to continue to grow the economy of Middle Georgia while achieving attainment earlier than required. The Middle Georgia Clean Air Coalition adopted a unique regional approach to addressing air quality challenges in Middle Georgia. Working cooperatively, the twenty (now 19 with the consolidation of Bibb County and the City of Macon), local governments in Middle Georgia have created partnerships with state and federal government agencies as well as with private-sector businesses and NGOs in an attempt to bring all available resources to bear on improving regional air quality.

In March 2004, the 21st Century Partnership, a community organization that works to enhance the military value of Robins Air Force Base (RAFB) and Middle Georgia, received \$70,000 to help improve air quality and address ozone non-attainment for Middle Georgia through the auspices of the Middle Georgia Clean Air Coalition. Department of Defense leaders specifically highlighted the criticality of air quality to the community's capacity to take on new missions. In testimony to the Committee on the Environment and Public Works, United States Senate, July 9, 2002, the Vice Chief of Staff of the Air Force stated in part, *"Air quality pressures generally affect operations at our installations more than on our ranges, but they potentially limit our basing options for force realignments and weapon system bed downs..."*

In April 2004, the U.S. Environmental Protection Agency formally designated Bibb County, Georgia, and a portion of Monroe County, Georgia, as in nonattainment for federal ozone standards. In December 2004, the U.S. Environmental Protection Agency formally designated Bibb County, Georgia, and a portion of Monroe County, Georgia, as in nonattainment for federal PM_{2.5} standards.

Bibb County had a violating monitor; Houston and Monroe counties were listed because EPA considered them as contributors to Bibb County's monitored violations of the Ozone NAAQS, Boundary County Considerations.

The efforts of the MGCAC have proven very successful in addressing the issues of nonattainment in Middle Georgia and have successfully demonstrated that the areas of nonattainment are confined to Bibb and Monroe counties just to the north of Houston County.

The efforts of the Middle Georgia Clean Air Coalition, local utilities, Georgia EPD, and the U.S. EPA have significantly improved air quality in the Middle Georgia Region. Through the efforts of the MGCAC, Macon-Bibb County has been removed from non-attainment for ozone to maintenance, and the air quality trend is in the right direction. Currently, the 2008 ozone standard is under review and all recommendations have suggested strengthening the standard from the current 75ppb. The MGCAC is committed to meeting any new standard set by the EPA. Macon-Bibb County and a portion of Monroe County had been in a non-attainment status for the 1997 annual PM_{2.5} standard since 2005, but in 2011 EPA determined that the Area was meeting that standard as well.

Middle Georgia is well-positioned to take advantage of the commitment from elected officials, the openness of both EPA Region IV and EPA Headquarters, and resources of the technical team assembled to support the Advance Program.

A current list of individual members of the coalition and their affiliations are found in Appendix A. This Path Forward serves as a guide for the plan the region has formulated to address compliance with current and future ozone and particulate matter NAAQS.

2.1 The MGCAC Charter

“We will act now to reduce NO_x and Ozone in the Middle Georgia Community to ensure that we protect the region’s public health, maintain a robust economic growth, and show leadership in environmental sustainability.”

The Middle Georgia Clean Air Coalition Principles in Article II of the charter states:

- a. Accepts and supports national air quality standards and advocates immediate community action to attain those goals.
- b. Believes air quality is a regional issue that defies political boundaries and that collaboration is essential for solution
- c. Recognizes all actions must be based on objective scientific data.

The underlying principle of the Middle Georgia Clean Air strategy is to accept responsibility for cleaning our air shed and to take actions that produce results. The Middle Georgia Clean Air Coalition will undertake the following activities:

- a. Rapidly synthesize the best science available.
- b. Engage the entire political and civic leadership to take actions.
- c. Design an air shed solution.
- d. Develop a plan for short-term attainment and long-term maintenance of attainment status.
- e. Develop alternatives that can be taken by each of the political jurisdictions.
- f. Seek and support funding for mutual projects.
- g. Develop a citizens’ guide to reducing emissions.

- h. Use existing organizations' expertise rather than creating new ones.

2.2 Relationship to other organizations:

- a. RAFB environmental office: Work in concert to integrate civic and military effort.
- b. Local industry: Share scientific information and coordinate compatible efforts.
- c. Local Non Governmental Organizations: Create a section when needed that explains the goals of working with other organizations or relationships.
- d. Georgia Environmental Protection Division: Fully cooperate with sharing and disseminating information for attainment and compliance with acceptable air quality levels.
- e. Metropolitan Planning Organizations: Insure compatibility with transportation planning by coordinating activities and strategies with the Macon Area Transportation Study and with the Warner Robins Area Transportation Study.

2.3 What we have done

- Instituted burn bans in high ozone season.
 - From May 1 to September 30 of each year, the MGCAC member counties have established a burn ban. This ban restricts all outside and open burning, such as for clearing or thinning out land. Such burning releases smoke and oxides of nitrogen into the outdoor air, and these pollutants have a negative impact on Middle Georgia's air quality.
- Passed anti-idling resolutions.
 - The member counties and cities that comprise the MGCAC have passed in the Commission and Council meetings resolutions restricting idling by city or county vehicles. Currently, the MGCAC is preparing signage at critical areas such as schools.
- Secured funding for Diesel Retrofits.
 - MGCAC secured \$4.3 million in funding to perform the following purchases/retrofits, requiring a 20 percent leveraging match of non-federal funds:
 - Diesel particulate filters for school buses
 - Gasoline-hybrid vehicles
 - Cleaner burning tractors
 - A low-emission locomotive at Norfolk Southern's Brosnan Yard.
- Installed 10 electric car chargers at multiple locations.
 - The Middle Georgia Clean Air Coalition partnered with ECOtality, a recognized leader in the research and development of advanced energy systems specialized in the field of alternative fuels, to purchase and install Electric Vehicle (EV) charging stations throughout Middle Georgia. This initiative was a part of the EV Project funded through a U.S. Department of Energy (DOE) grant. The ultimate goal of the EV Project is to take the lessons learned from the initial deployment of EVs, and the charging infrastructure supporting them, to enable the streamlined deployment of future EVs.
- Adopted Green Procurement policies. All jurisdictions in the MGCAC have passed resolutions to review procure practices and reform those practices to favor more environmentally friendly products.
- Converted school buses to biodiesel in Macon-Bibb, Jones, Monroe, and Houston counties.

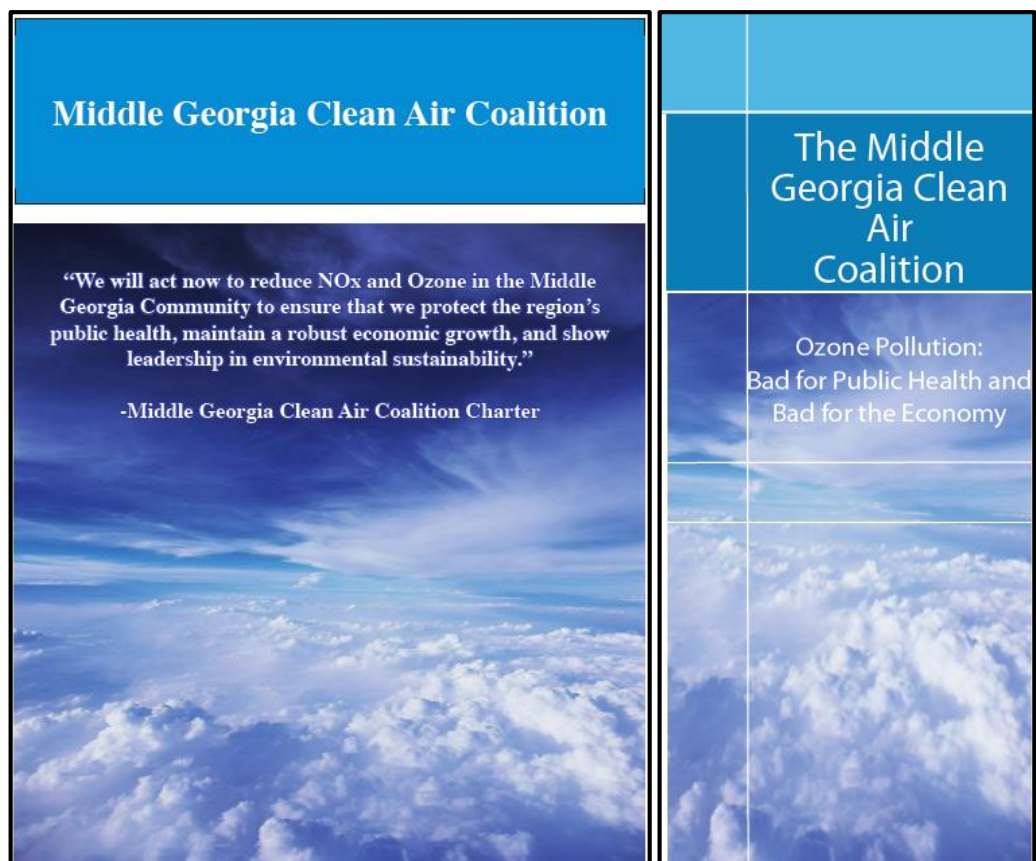
- Significantly increased the ridership of the Macon Transit Authority, instituted Buses into Robins Daily (BIRD), and added a park and ride facility near Robins AFB.

Green Initiatives in Bibb County

- Complete retrofit of approximately 2800 bulbs and ballasts, resulting in an average energy reduction of 18 percent. The courthouse lighting retrofit project was the first major initiative. The energy savings realized since completion in September 2008 is now more than \$425,000.00.
- Replacement of 350 + windows with insulated Low E windows.
- Replacement of the roof system with foam insulation and reflective white exterior coating.
- Replacement of 120 ton high efficiency Chiller System – replaced old pneumatic controls with DDC controls.
- Over the last five years – replaced 14 inefficient HVAC units with high efficiency units.
- Several sites have building automation systems to regulate schedules for heating, cooling and lighting systems to minimize “peak time” usage.
- Annual Earth Day Events – Partnering with MGCAC and the City of Macon. The Earth Day event in April, has grown into a well-attended public awareness event.
- Conducts Educational Summits (twice a year) in order to share successes and Green Team benefits to the community.
- Educated all county departments on a “Print Study” whereby it costs .055 to use a shared copier versus .10 to use a desk jet; Twelve departments now have instituted a cartridge policy;
- Researched and led the way to convert the county timesheet system from paper to electronic; currently have all departments onboard, with the Sheriff’s Office converting in August 2012 (Inception of project began June 2011.)
- Presented Bibb County Commissioner’s with the Anti-Idling Policy, which passed and was county policy for all county vehicles;
- Newspaper and Phone Book Recycling Programs-100 percent participation rate among all county departments;
- Taking the lead on educating employees on the benefits of Automatic Deposits (savings of printing and paper) – 98 percent on direct deposit. All but 200 employees now on direct deposit

Grant Awards/Projects in Bibb County

- Four additional county facilities received lighting retrofits. This project was completed in May 2012 and produces an annual energy savings of approximately \$15,000.00.
- Placed a bicycle rack for public outside of the courthouse.
- Eight utility carts to replace county fleet with highest emissions rate – (4) Parks and Rec, (2) Tobesofkee, (1) Public Works and (1) Courthouse locations
- Hybrid vehicles to replace county fleet with highest emissions rate (on-going project); Same grant also include retrofitting diesel fleet as identified by EPD; Four (4) Solar Panel Thermal Water Heaters for fire stations; project completed August 2012 (grant funded - no cost to the county;) – Fire Station 110, Animal Welfare and Juvenile Justice being built incorporating solar hot water.
- Electric Vehicle Charging Station - placed outside of the courthouse for public use, at no charge; project completed August 2012 (no cost to the county)
- Lighting retrofit for all Recreation Centers in Macon-Bibb in process now – using LED’s



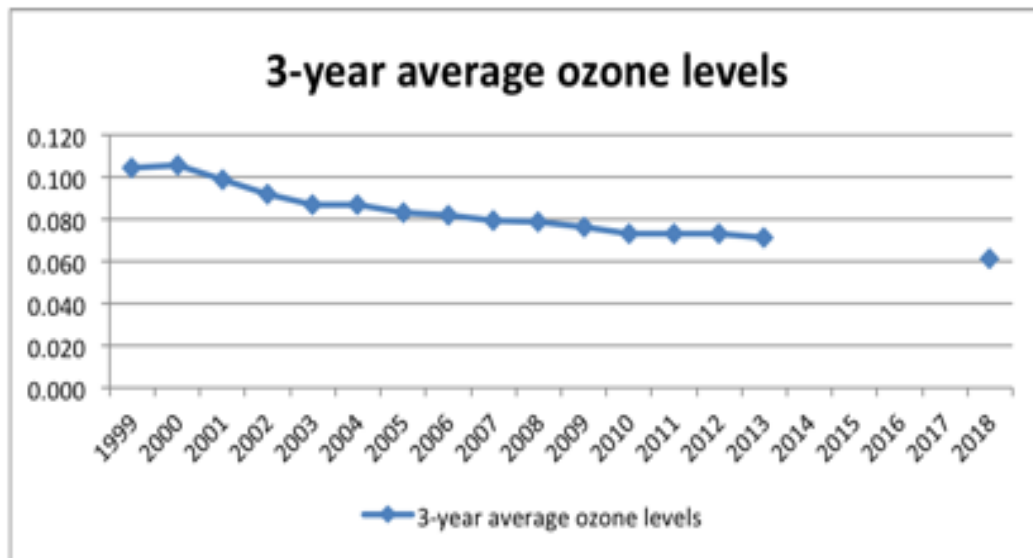
Citizens Guide to Ozone Pollution

3.0 The Path Forward

The emphasis of the Path Forward for Middle Georgia is on voluntary programs in the area of new policies, aggressive new programs, and partnerships with the citizens and business community in the region. Through this Path Forward, the Middle Georgia Clean Air Coalition will encourage actions to improve air quality in the region, provide healthy air for its citizens, maintain economic growth, and show leadership in environmental sustainability.

3.1 Air Quality Data

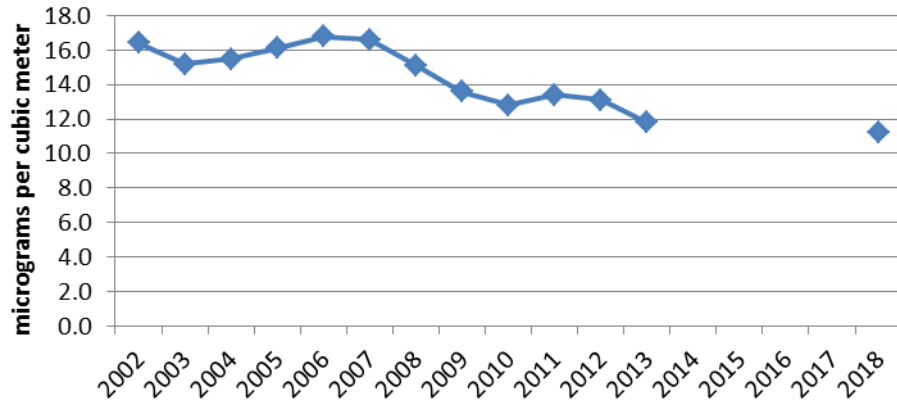
A statistic used to describe the air quality status of a location related to the NAAQS is the Design Value (DV) for a monitor. The DV is used to designate nonattainment areas and measure progress towards meeting NAAQS. For ozone, the NAAQS is considered to be met when the annual fourth highest daily maximum eight-hour average concentration averaged over three years is 75 ppb or less. There are two ozone monitors in Middle Georgia; one at the Georgia Forestry Commission that represents the Macon Metropolitan Statistical Area (MSA) and the Allied Chemical site in Macon-Bibb County. Both are regulatory monitors operated by Georgia EPD.



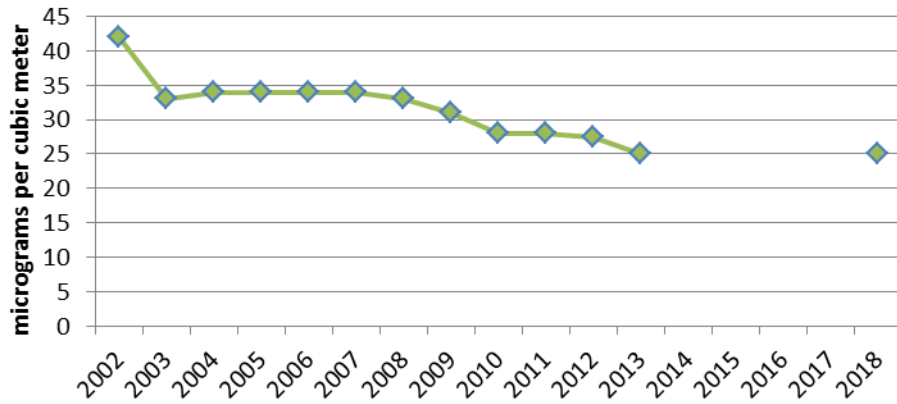
Macon MSA O3 Monitors For 2010-2013, the Macon-Bibb monitors DV for eight-hour ozone was at the NAAQS threshold of 75 ppb on a trend line to be below the standard in 2014
Source: Georgia EPD

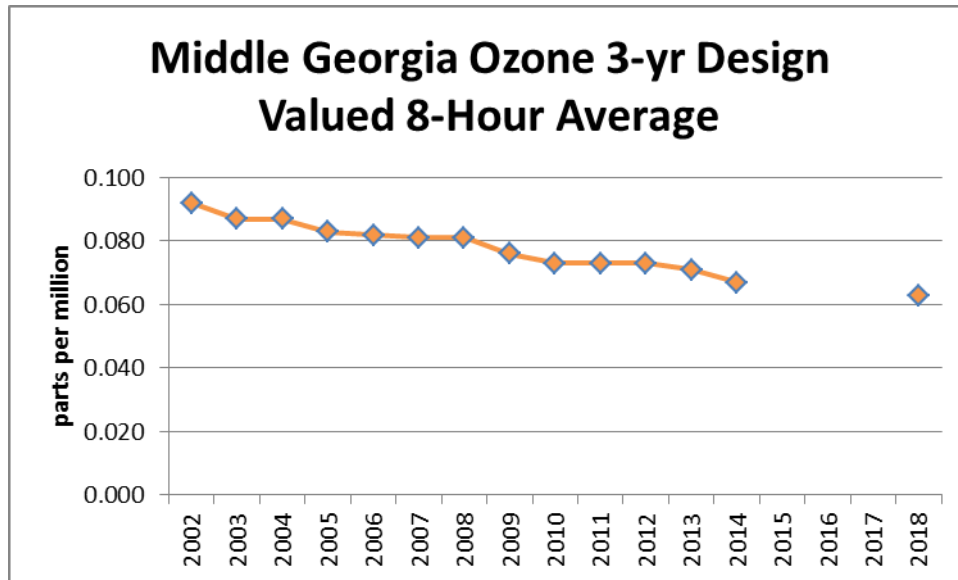
For PM_{2.5}, the NAAQS is considered to be met when the annual average is 12.0 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) or less and the daily average is 35 $\mu\text{g}/\text{m}^3$ or less. There are two PM_{2.5} monitors in Middle Georgia; one at the Georgia Forestry Commission that represents the Macon Metropolitan Statistical Area (MSA) and the Allied Chemical site in Macon-Bibb County. Both are regulatory monitors operated by Georgia EPD.

Middle Georgia PM_{2.5} 3-yr Design Values - Annual Average



Middle Georgia PM_{2.5} 3-yr Design Values - 24-Hour Average





3.2 Emissions Inventories

Emissions inventory data is based on the 2011 National Emissions Inventory (NEI) for the counties in the Middle Georgia region. The emissions inventory is classified by emission sources. These classifications include area, non-road, on-road, and point sources. Area sources are generally reported by categories such as solvent use, agriculture, such as from feed lots and crop burning, waste management, such as from landfills, and product storage and transport as associated with gasoline. Non-road mobile sources include internal combustion engines that are not associated with highway vehicles, such as aircraft, locomotives, recreational marine, and lawn and garden equipment. On-road mobile sources include light and heavy duty vehicles, motorcycles, and light and heavy duty diesel vehicles. Point source emissions are those emitted by individual “point” sources, such as chemical plants, refineries, electric utility plants, and industrial sites.

Appendix B includes a National Emission Inventory (N.E.I.) for each county within the MGCAC.

3.3 Description of Measures and Programs

Middle Georgia efforts to meet the program goals of the Advance Program include reducing ozone formative emissions through these current efforts:

- Formation of citizen coalition with elected officials, public and private citizens, known as the Middle Georgia Clean Air Coalition and associated informative and educational website.
- Regional partnerships with Boards of Education, utility providers, and businesses.
- Resolutions in all counties and cities regarding burn bans, anti-idling, green procurement and other similar measures.
 - All cities in counties in the Advance area have adopted anti-idling resolutions. Annual Assessments will include a list of resolutions passed by each jurisdiction.
- Encouraging trip reductions and expanding Macon Transit Authority routes to Robins AFB.
- Purchasing hybrid vehicles.
- Installing electric vehicle chargers.
- Retrofitting school buses.
- Retrofits at Plant Scherer
- Development of a “Clean Air Force” which recognizes all who join in our efforts.

The 20 million man-hour, major construction activities on Plant Scherer’s air quality control systems concluded in 2013, with all of the environmental control equipment operational. The final phase of the environmental control project, including checkout, startup, testing and initial operation of both the Unit 1 Flue Gas Desulfurization (FGD) and Selective Catalytic Reduction (SCR) systems, as well as all support systems, was successfully completed in early 2014. The SCR equipment will reduce the boiler stack emission of oxides of nitrogen (NO_x) by about 80 percent when combined with the combustion controls installed earlier. Using anhydrous ammonia and catalyst modules, the SCR chemically converts the NO_x in the boiler exhaust flue gases to nitrogen and water. Extensive structural steelwork was required to facilitate retrofitting of the SCRs at the boiler outlet and direct the treated gas back to the existing outlet ductwork.

Long term future efforts that will contribute to ozone emission reduction include the following:

- Seek funding through grants and private capital for improved energy efficiency.
- Partner with the business community and promote the development of a signature renewable energy project. Several states have quantified the emission reductions and air and health benefits and determined that the measures are helping them reduce their air pollution and GHGs.

The Wisconsin Focus on Energy Program’s energy efficiency and renewable energy projects funded by the Utility Public Benefits fund shows that a five-year period the state displaced annual emissions from power plants and utility customers of about:

- 5.8 million pounds of NOx
- 11.4 million pounds of SOx
- 46 2.6 billion pounds of CO2

Eastern states are using solar and other renewable energy technologies to reduce ozone transport. The Ozone Transport Commission (the 12 states on the East Coast from Virginia to Maine, plus the District of Columbia) signed a memorandum of understanding (MOU) titled, “Among the States of the Ozone Transport Commission Concerning the Incorporation of High Electrical Demand Day (HEDD) Emission Reduction Strategies into Ozone Attainment SIP Implementation Planning.” This MOU commits six of the states to pursue reductions in HEDD NOx emissions by 135 tons per day (total) by 2012 at the latest, and it includes measures to achieve these reductions in their 2007 ozone state implementation plans. Long term, the use of solar energy to help meet emissions reductions has the potential to substantially reduce the HEDD problem by providing customer-sited generation that coincides with high demand.

Below are the GHG emission values used to express reductions achieved by 1 kWh, produced from solar thermal, solar electric, wind and hydro-electric systems at initial registration into the ICBE Renewable Energy Database™.

These values come from 1996 US electric utility related emissions, rounded to a convenient number.

Greenhouse Gases		Criteria Pollutants	
CO2	1 kg	CO	0.00015 kg
CH4	0.00001 kg	NMVOC's	0.00002 kg
N2O	0.00001 kg	SO2	0.005 kg
SF6	0.00000055 kg	NOx	0.0025 kg

3.4 Current Strategies

The coalition has been stable, consistent, and sustainable for over 10 years. Part of its success is the commitment by elected officials and the regional nature of the Coalition. It has had vigorous support from Oglethorpe Power, Georgia Power, the Boards of Education, Robins AFB, and the civic leadership of Middle Georgia. The regional and cooperative nature of the coalition will aid in gathering information, analyzing data, and creating regional policies to address air quality issues. The coalition will also be a good partner in the Advance Program. The MGCAC has developed a website which serves in an educational and informative role, and provides information about ozone action notification, education for youth, and public awareness. The web address for the website is: www.middlegacleanair.org.

Current strategies are contained in the Middle Georgia Clean Air Coalition 2014/2015 Strategy (attached as Appendix C). This is the third multi-year strategy developed by the MGCAC. The process of developing these strategies has engaged elected officials and the general public, and has proven useful in sustaining our efforts.

The MGCAC has developed a new initiative, “The MGCAC Clean Air Force”. It is a brand that will become recognized throughout the region as anti-idling signage is labeled, businesses join the effort, and clean air is closely associated with a healthy citizenship and economy.



3.4.1 Trip Reductions

The largest employer within the region, commonly referred to as Middle Georgia's economic engine, is Robins Air Force Base (RAFB). Over 25,000 civilian, contractor, and military positions are directly affiliated with the Base, and thousands of additional jobs, many within the services sector, are indirectly associated with the presence of the Base. Parking availability problems on RAFB, as well as heavy traffic congestion associated with employees commuting to and from RAFB has Base and local leaders exploring avenues to alleviate these concerns. In November 2010, the Macon-Bibb County Transit Authority (MTA) initiated BIRD or "Buses into Robins Daily", a weekday service to and from Robins Air Force Base. BIRD bus transportation cost passengers \$6 a day round trip, but is 100 percent reimbursable for military members and civilian employees enrolled in the Transportation Incentive Program (TIP). BIRD is one of a series of actions recently taken to help alleviate traffic congestion around RAFB; another includes promoting the use of vanpools. At the end of 2013, there were 66 active vanpools with 856 participants in use at Robins Air Force Base. RAFB also has a fleet-fed mandate to purchase the most efficient vehicles available. Their fleet includes some electric vehicles, plug-in hybrids, E85 vehicles and on-site charging stations for said vehicles. RAFB also uses alternative fuels. RAFB is a member of the MGCAC and attends all meetings.

3.4.2 Public Awareness Campaigns

Increased public awareness of the clean air issue in the region is an important step. MGCAC has already begun the process of increasing public awareness of the importance of taking steps to reduce emissions through the "Citizens Guide to Ozone Pollution", refreshing the website to provide more tools for citizens, and through a portal for ideas generated by citizens. An editor for the Macon Telegraph accompanied elected officials to Washington to visit with HQEPA and returned to write an editorial about the positive efforts undertaken by the MGCAC.

3.4.3 Improved Energy Efficiency

Counties throughout the region are seeking funding through grant applications and private capital for improved energy efficiency. MGCAC considers Demand Management to be the first strategy in NOx reductions and for this reason is working with the business community to support the development of a signature renewable energy project.

4.0 Implementation Schedule

As part of the Advance Program, it is recommended that an area commit to a five-year term, with an option to renew at the end of the term. MGCAC will commit to the five-year term with a general schedule for programs as follows.

March 2013	MGCAC submits sign-up letter
April 2013	MGCAC joined both Ozone and PM Advance
Winter 2014/2015	Development of 2014/2015 Strategy
September 2014	Public Meetings
February 2015	Submission of Final Path Forward to EPA
Spring 2015	Action on measures/programs: <ul style="list-style-type: none">● Research and develop new and/or revise existing measures/programs as appropriate● Research and evaluate any funding opportunities against program goals
February 2016	Submit first annual report on status of local air quality, measures and programs in place and lessons learned, re-evaluate and revise Path Forward as necessary.

Middle Georgia is committed to the Advance Program as part of its ongoing efforts to improve air quality in the region. Through the formation of the Middle Georgia Clean Air Coalition, the region has brought together many interested stakeholders to coordinate efforts to address this important issue. The members of the MGCAC fully support taking action, including participation in the Advance Program.

Ned Sanders
Chairman
Middle Georgia Clean Air Coalition

APPENDIX A

Middle Clean Air Coalition Membership

Executive Board Members

Robert Reichert	Mayor, Macon-Bibb
Tommy Stalnaker	Chairman, Houston County
Ned Sanders	Chairman Houston County (former) and Chair of the MGCAC
Paul Chapman	Chairman, Crawford County
Mike Bilderback	Chairman, Monroe County
Preston Hawkins	Chairman, Jones County
Melvin Walker, Jr.	Chairman, Peach County
Ken Fowler	Chairman, Twiggs County
Larry Collins	Mayor, Byron
John Harley	Mayor, Centerville
Steve Eller	Mayor, Culloden
Jimmy Smith	Mayor, Danville
John Howard II	Mayor, Forsyth
Barbara Williams	Mayor, Fort Valley
Steve Tingen	Mayor, Gray
Shannon Hart	Mayor, Jeffersonville
Grace McCrimmons	Mayor, Payne City
Jimmy Faircloth	Mayor, Perry
Becky Smith	Mayor, Roberta
Randy Toms	Mayor, Warner Robins

Ex-Officio Members

Teresa Robinson	Georgia Power
Doug Fulle	Oglethorpe Power
Dr. Kelly Castlin-Gacutan	Bibb County Board of Education
Representative	Houston County Board of Education
Representative	Senator David Purdue
Representative	Senator Johnny Isakson
Donavan Head	Congressman Austin Scott
Michelle Sands	Congressman Sanford Bishop
Chrissy Miner	21st Century Partnership

Air Quality Advisory Committee Members

Alex Perry
Bill Mulkey
Jacob Cox
Lee Gilmour
Mike Brumfield
Sam Kitchens
Tiffany Davis
Jimmy Autrey
Giles Ragsdale
Jack Kipe

Peach County
City of Warner Robins
Houston County
City of Perry
City of Centerville
Macon-Bibb County
Jones County
Flint Energy
AECOM
Graphic Package

Appendix B

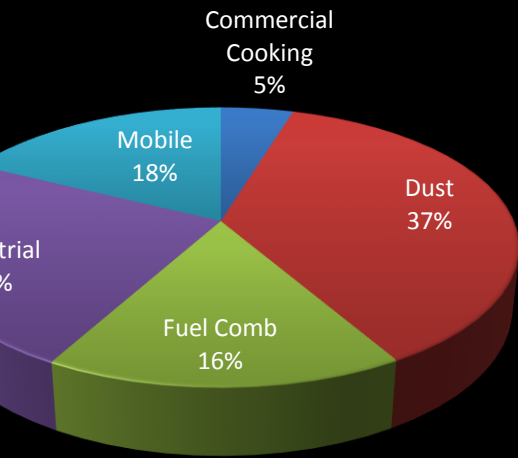
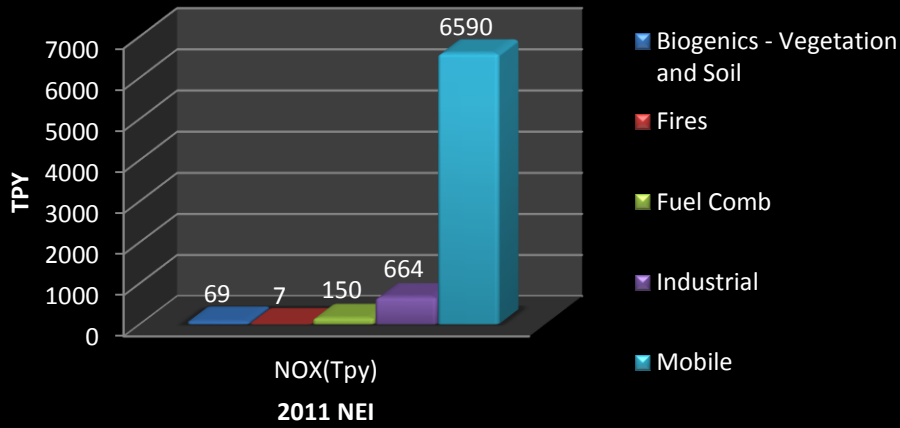
National Emission Inventories (N.E.I.)

BIBB COUNTY

State	County	Sectors	NOX(Tpy)
GA	Bibb	Agriculture - Crops & Livestock Dust	
GA	Bibb	Biogenics - Vegetation and Soil	69
GA	Bibb	Bulk Gasoline Terminals	
GA	Bibb	Commercial Cooking	
GA	Bibb	Dust - Construction Dust	
GA	Bibb	Dust - Paved Road Dust	
GA	Bibb	Dust - Unpaved Road Dust	
GA	Bibb	Fires - Agricultural Field Burning	1
GA	Bibb	Fires - Prescribed Fires	4
GA	Bibb	Fires - Wildfires	2
		Fires	7
GA	Bibb	Fuel Comb - Comm/Institutional - Biomass	0
GA	Bibb	Fuel Comb - Comm/Institutional - Coal	0
GA	Bibb	Fuel Comb - Comm/Institutional - Natural Gas	53
GA	Bibb	Fuel Comb - Comm/Institutional - Oil	0
GA	Bibb	Fuel Comb - Comm/Institutional - Other	2
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Biomass	315
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Coal	299
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Coal	0
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	716
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	10
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Oil	2
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Oil	7
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Other	
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Bibb	Fuel Comb - Residential - Natural Gas	140
GA	Bibb	Fuel Comb - Residential - Oil	0
GA	Bibb	Fuel Comb - Residential - Other	5
GA	Bibb	Fuel Comb - Residential - Wood	5
		Fuel Comb	150
GA	Bibb	Gas Stations	
GA	Bibb	Industrial Processes - Chemical Manuf	

GA	Bibb	Industrial Processes - Mining	
GA	Bibb	Industrial Processes - NEC	88
GA	Bibb	Industrial Processes - NEC	8
GA	Bibb	Industrial Processes - Non-ferrous Metals	
GA	Bibb	Industrial Processes - Pulp & Paper	569
GA	Bibb	Industrial Processes - Storage and Transfer	
GA	Bibb	Industrial Processes - Storage and Transfer	
		Industrial	664
GA	Bibb	Miscellaneous Non-Industrial NEC	1
GA	Bibb	Mobile - Aircraft	3
GA	Bibb	Mobile - Locomotives	319
GA	Bibb	Mobile - Locomotives	380
GA	Bibb	Mobile - Non-Road Equipment - Diesel	0
GA	Bibb	Mobile - Non-Road Equipment - Diesel	435
GA	Bibb	Mobile - Non-Road Equipment - Gasoline	0
GA	Bibb	Mobile - Non-Road Equipment - Gasoline	92
GA	Bibb	Mobile - Non-Road Equipment - Other	0
GA	Bibb	Mobile - Non-Road Equipment - Other	56
GA	Bibb	Mobile - On-Road Diesel Heavy Duty Vehicles	2449
GA	Bibb	Mobile - On-Road Diesel Light Duty Vehicles	40
GA	Bibb	Mobile - On-Road Gasoline Heavy Duty Vehicles	195
GA	Bibb	Mobile - On-Road Gasoline Light Duty Vehicles	2621
		Mobile	6590
GA	Bibb	Solvent - Consumer & Commercial Solvent Use	
GA	Bibb	Solvent - Degreasing	
GA	Bibb	Solvent - Dry Cleaning	
GA	Bibb	Solvent - Graphic Arts	
GA	Bibb	Solvent - Industrial Surface Coating & Solvent Use	
GA	Bibb	Solvent - Industrial Surface Coating & Solvent Use	
GA	Bibb	Solvent - Non-Industrial Surface Coating	
GA	Bibb	Waste Disposal	6

Bibb CO, GA

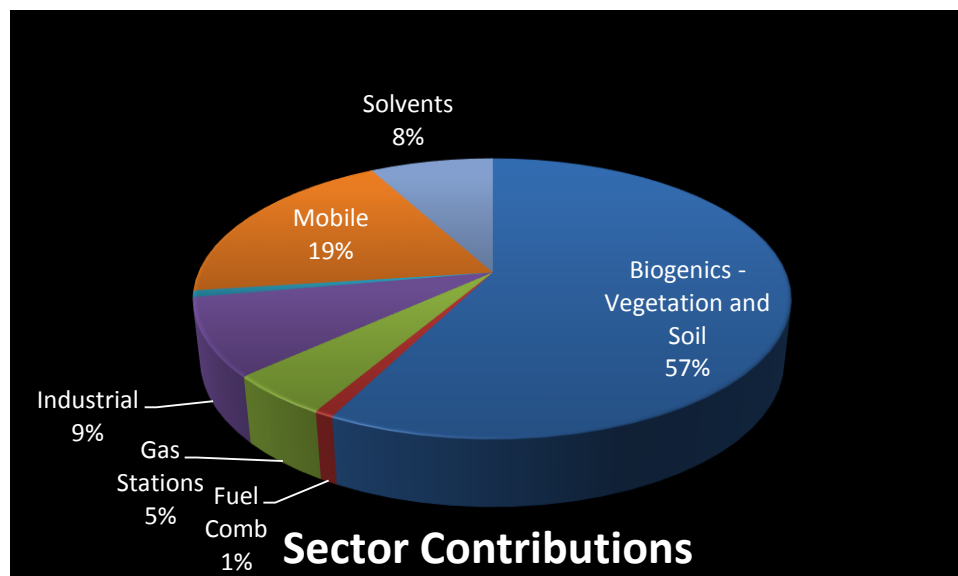
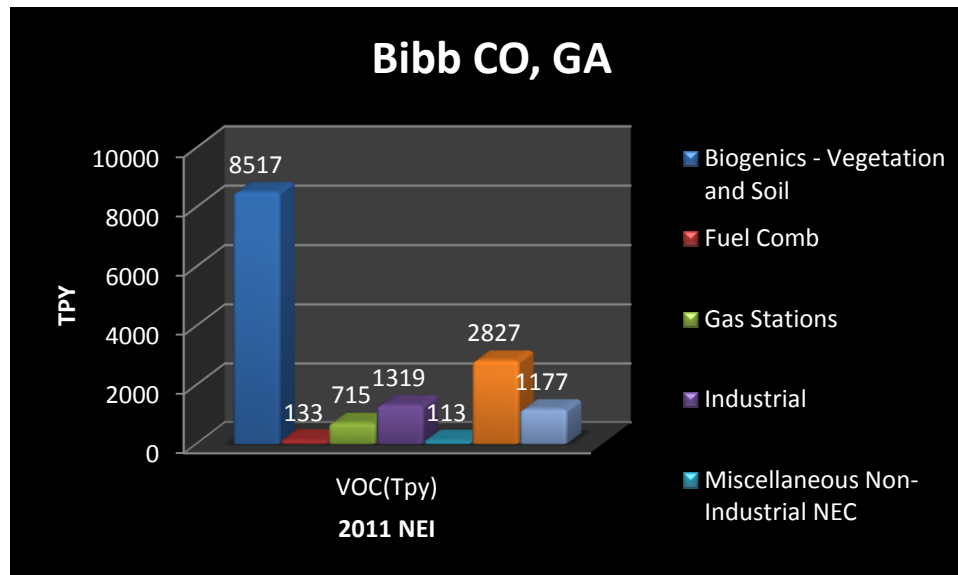


Sector Contributions

State	County	Sectors	VOC(Tpy)
GA	Bibb	Agriculture - Crops & Livestock Dust	
GA	Bibb	Biogenics - Vegetation and Soil	8517
GA	Bibb	Bulk Gasoline Terminals	13
GA	Bibb	Commercial Cooking	10
GA	Bibb	Dust - Construction Dust	
GA	Bibb	Dust - Paved Road Dust	
GA	Bibb	Dust - Unpaved Road Dust	
GA	Bibb	Fires - Agricultural Field Burning	2
GA	Bibb	Fires - Prescribed Fires	7

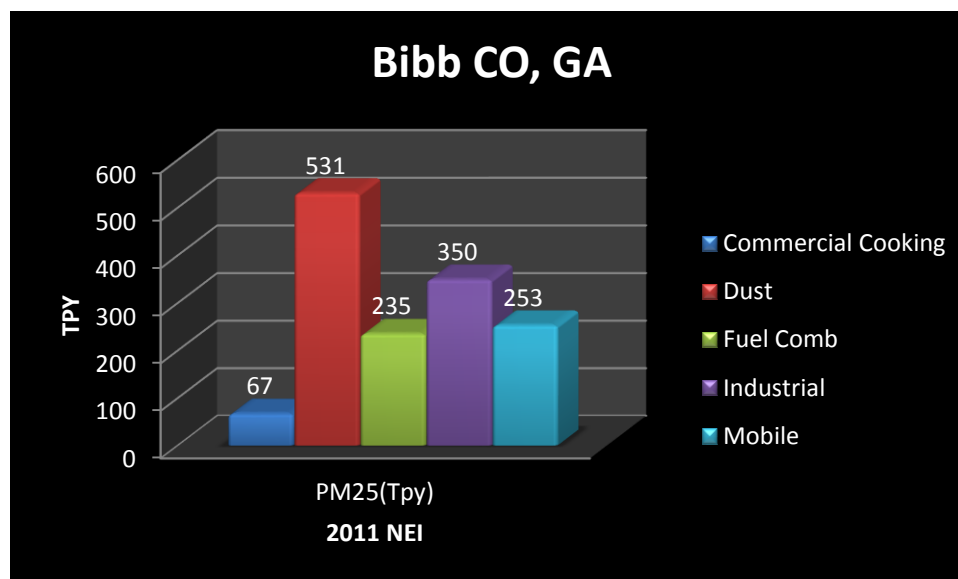
GA	Bibb	Fires - Wildfires	4
		Fires	13
GA	Bibb	Fuel Comb - Comm/Institutional - Biomass	0
GA	Bibb	Fuel Comb - Comm/Institutional - Coal	0
GA	Bibb	Fuel Comb - Comm/Institutional - Natural Gas	2
GA	Bibb	Fuel Comb - Comm/Institutional - Oil	0
GA	Bibb	Fuel Comb - Comm/Institutional - Other	0
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Biomass	24
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Coal	1
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Coal	0
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	44
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	1
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Oil	0
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Oil	0
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Other	
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Bibb	Fuel Comb - Residential - Natural Gas	8
GA	Bibb	Fuel Comb - Residential - Oil	0
GA	Bibb	Fuel Comb - Residential - Other	0
GA	Bibb	Fuel Comb - Residential - Wood	52
		Fuel Comb	133
GA	Bibb	Gas Stations	715
GA	Bibb	Industrial Processes - Chemical Manuf	
GA	Bibb	Industrial Processes - Mining	
GA	Bibb	Industrial Processes - NEC	67
GA	Bibb	Industrial Processes - NEC	474
GA	Bibb	Industrial Processes - Non-ferrous Metals	
GA	Bibb	Industrial Processes - Pulp & Paper	677
GA	Bibb	Industrial Processes - Storage and Transfer	3
GA	Bibb	Industrial Processes - Storage and Transfer	98
		Industrial	1319
GA	Bibb	Miscellaneous Non-Industrial NEC	113
GA	Bibb	Mobile - Aircraft	4
GA	Bibb	Mobile - Locomotives	24
GA	Bibb	Mobile - Locomotives	21
GA	Bibb	Mobile - Non-Road Equipment - Diesel	0
GA	Bibb	Mobile - Non-Road Equipment - Diesel	45
GA	Bibb	Mobile - Non-Road Equipment - Gasoline	0
GA	Bibb	Mobile - Non-Road Equipment - Gasoline	565
GA	Bibb	Mobile - Non-Road Equipment - Other	0
GA	Bibb	Mobile - Non-Road Equipment - Other	14
GA	Bibb	Mobile - On-Road Diesel Heavy Duty Vehicles	214

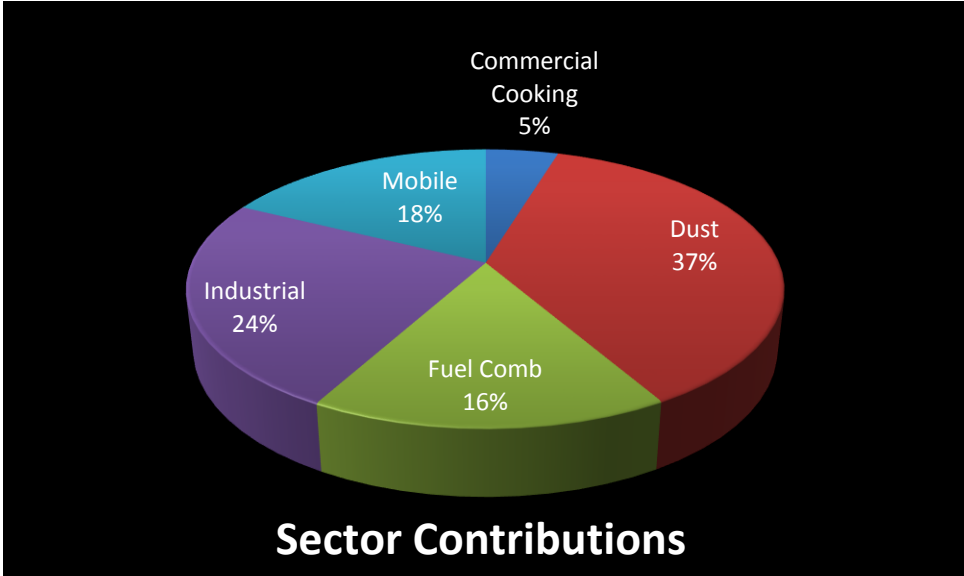
GA	Bibb	Mobile - On-Road Diesel Light Duty Vehicles	6
GA	Bibb	Mobile - On-Road Gasoline Heavy Duty Vehicles	91
GA	Bibb	Mobile - On-Road Gasoline Light Duty Vehicles	1843
		Mobile	2827
GA	Bibb	Solvent - Consumer & Commercial Solvent Use	666
GA	Bibb	Solvent - Degreasing	66
GA	Bibb	Solvent - Dry Cleaning	52
GA	Bibb	Solvent - Graphic Arts	0
GA	Bibb	Solvent - Industrial Surface Coating & Solvent Use	38
GA	Bibb	Solvent - Industrial Surface Coating & Solvent Use	173
GA	Bibb	Solvent - Non-Industrial Surface Coating	182
		Solvents	1177
GA	Bibb	Waste Disposal	6



State	County	Sectors	PM25(Tpy)
GA	Bibb	Agriculture - Crops & Livestock Dust	8
GA	Bibb	Biogenics - Vegetation and Soil	
GA	Bibb	Bulk Gasoline Terminals	
GA	Bibb	Commercial Cooking	67
GA	Bibb	Dust - Construction Dust	94
GA	Bibb	Dust - Paved Road Dust	96
GA	Bibb	Dust - Unpaved Road Dust	341
		Dust	531
GA	Bibb	Fires - Agricultural Field Burning	3
GA	Bibb	Fires - Prescribed Fires	13
GA	Bibb	Fires - Wildfires	8
GA	Bibb	Fuel Comb - Comm/Institutional - Biomass	0
GA	Bibb	Fuel Comb - Comm/Institutional - Coal	0
GA	Bibb	Fuel Comb - Comm/Institutional - Natural Gas	0
GA	Bibb	Fuel Comb - Comm/Institutional - Oil	0
GA	Bibb	Fuel Comb - Comm/Institutional - Other	0
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Biomass	96
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Coal	43
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Coal	0
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	18
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Oil	0
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Oil	0
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Other	13
GA	Bibb	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Bibb	Fuel Comb - Residential - Natural Gas	1
GA	Bibb	Fuel Comb - Residential - Oil	0
GA	Bibb	Fuel Comb - Residential - Other	0
GA	Bibb	Fuel Comb - Residential - Wood	41
		Fuel Comb	235
GA	Bibb	Gas Stations	
GA	Bibb	Industrial Processes - Chemical Manuf	0
GA	Bibb	Industrial Processes - Mining	41
GA	Bibb	Industrial Processes - NEC	61
GA	Bibb	Industrial Processes - NEC	35
GA	Bibb	Industrial Processes - Non-ferrous Metals	5
GA	Bibb	Industrial Processes - Pulp & Paper	207
GA	Bibb	Industrial Processes - Storage and Transfer	0
GA	Bibb	Industrial Processes - Storage and Transfer	
		Industrial	350
GA	Bibb	Miscellaneous Non-Industrial NEC	2

GA	Bibb	Mobile - Aircraft	2
GA	Bibb	Mobile - Locomotives	10
GA	Bibb	Mobile - Locomotives	13
GA	Bibb	Mobile - Non-Road Equipment - Diesel	0
GA	Bibb	Mobile - Non-Road Equipment - Diesel	36
GA	Bibb	Mobile - Non-Road Equipment - Gasoline	0
GA	Bibb	Mobile - Non-Road Equipment - Gasoline	23
GA	Bibb	Mobile - Non-Road Equipment - Other	0
GA	Bibb	Mobile - Non-Road Equipment - Other	1
GA	Bibb	Mobile - On-Road Diesel Heavy Duty Vehicles	117
GA	Bibb	Mobile - On-Road Diesel Light Duty Vehicles	3
GA	Bibb	Mobile - On-Road Gasoline Heavy Duty Vehicles	2
GA	Bibb	Mobile - On-Road Gasoline Light Duty Vehicles	46
		Mobile	253
GA	Bibb	Solvent - Consumer & Commercial Solvent Use	
GA	Bibb	Solvent - Degreasing	
GA	Bibb	Solvent - Dry Cleaning	
GA	Bibb	Solvent - Graphic Arts	
GA	Bibb	Solvent - Industrial Surface Coating & Solvent Use	
GA	Bibb	Solvent - Industrial Surface Coating & Solvent Use	
GA	Bibb	Solvent - Non-Industrial Surface Coating	
GA	Bibb	Waste Disposal	4

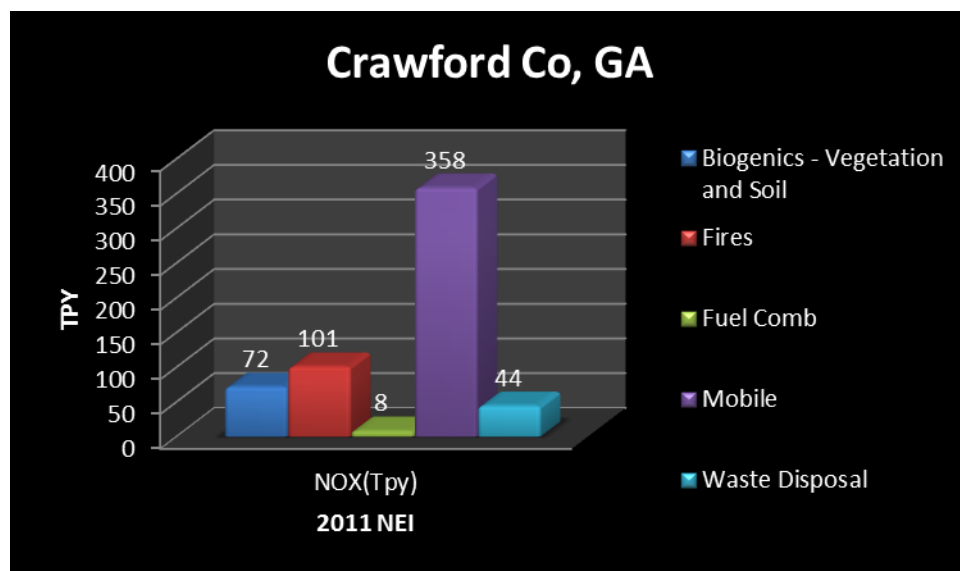


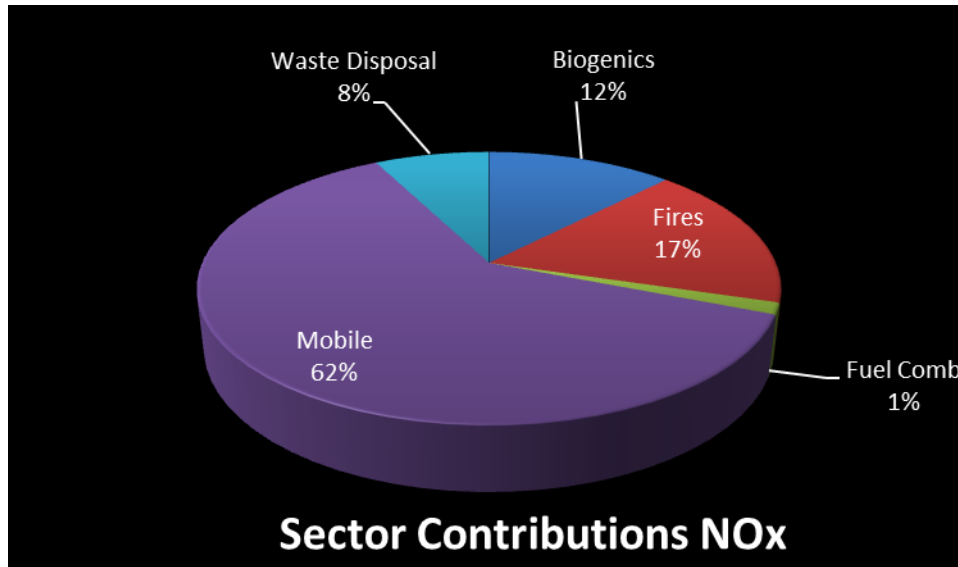


CRAWFORD COUNTY

State	County	Sectors	NOX(Tpy)
GA	Crawford	Agriculture - Crops & Livestock Dust	
GA	Crawford	Biogenics - Vegetation and Soil	72
GA	Crawford	Bulk Gasoline Terminals	
GA	Crawford	Commercial Cooking	
GA	Crawford	Dust - Construction Dust	
GA	Crawford	Dust - Paved Road Dust	
GA	Crawford	Dust - Unpaved Road Dust	
GA	Crawford	Fires - Agricultural Field Burning	10
GA	Crawford	Fires - Prescribed Fires	77
GA	Crawford	Fires - Wildfires	14
		Fires	101
GA	Crawford	Fuel Comb - Comm/Institutional - Biomass	0
GA	Crawford	Fuel Comb - Comm/Institutional - Coal	0
GA	Crawford	Fuel Comb - Comm/Institutional - Natural Gas	1
GA	Crawford	Fuel Comb - Comm/Institutional - Oil	0
GA	Crawford	Fuel Comb - Comm/Institutional - Other	0
GA	Crawford	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Crawford	Fuel Comb - Industrial Boilers, ICEs - Coal	0
GA	Crawford	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0
GA	Crawford	Fuel Comb - Industrial Boilers, ICEs - Oil	0
GA	Crawford	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Crawford	Fuel Comb - Residential - Natural Gas	2
GA	Crawford	Fuel Comb - Residential - Oil	0
GA	Crawford	Fuel Comb - Residential - Other	5

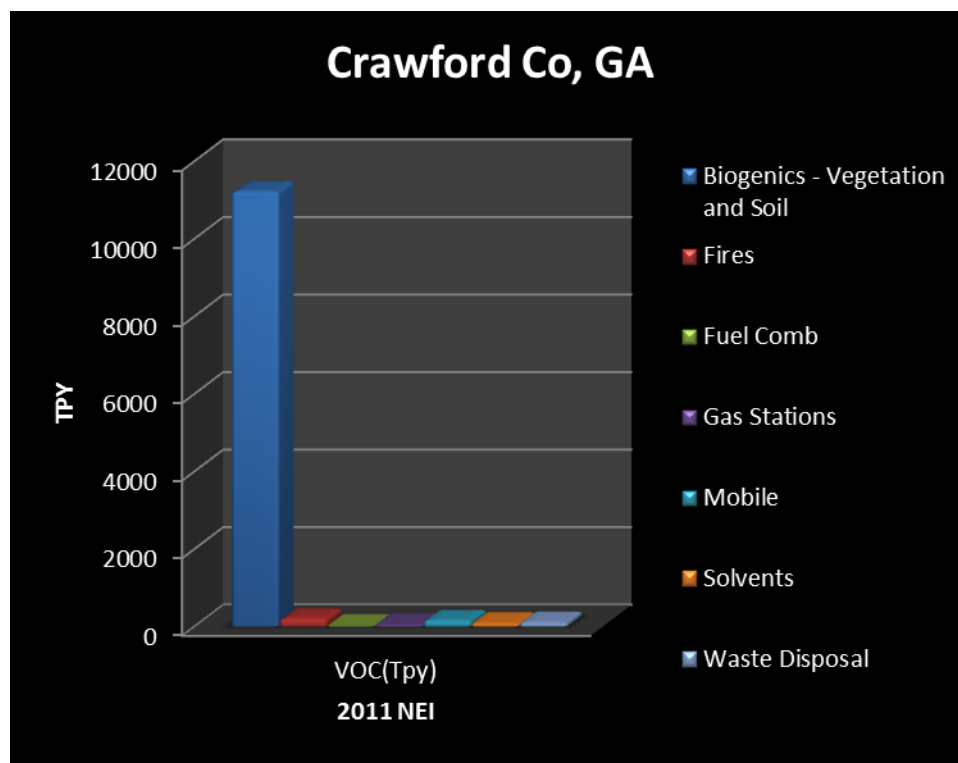
GA	Crawford	Fuel Comb - Residential - Wood	0
		Fuel Comb	8
GA	Crawford	Gas Stations	
GA	Crawford	Industrial Processes - Mining	
GA	Crawford	Industrial Processes - Storage and Transfer	
GA	Crawford	Miscellaneous Non-Industrial NEC	0
GA	Crawford	Mobile - Aircraft	0
GA	Crawford	Mobile - Locomotives	26
GA	Crawford	Mobile - Non-Road Equipment - Diesel	43
GA	Crawford	Mobile - Non-Road Equipment - Gasoline	5
GA	Crawford	Mobile - Non-Road Equipment - Other	1
GA	Crawford	Mobile - On-Road Diesel Heavy Duty Vehicles	130
GA	Crawford	Mobile - On-Road Diesel Light Duty Vehicles	2
GA	Crawford	Mobile - On-Road Gasoline Heavy Duty Vehicles	11
GA	Crawford	Mobile - On-Road Gasoline Light Duty Vehicles	141
		Mobile	358
GA	Crawford	Solvent - Consumer & Commercial Solvent Use	
GA	Crawford	Solvent - Degreasing	
GA	Crawford	Solvent - Dry Cleaning	
GA	Crawford	Solvent - Graphic Arts	
GA	Crawford	Solvent - Industrial Surface Coating & Solvent Use	
GA	Crawford	Solvent - Non-Industrial Surface Coating	
GA	Crawford	Waste Disposal	44

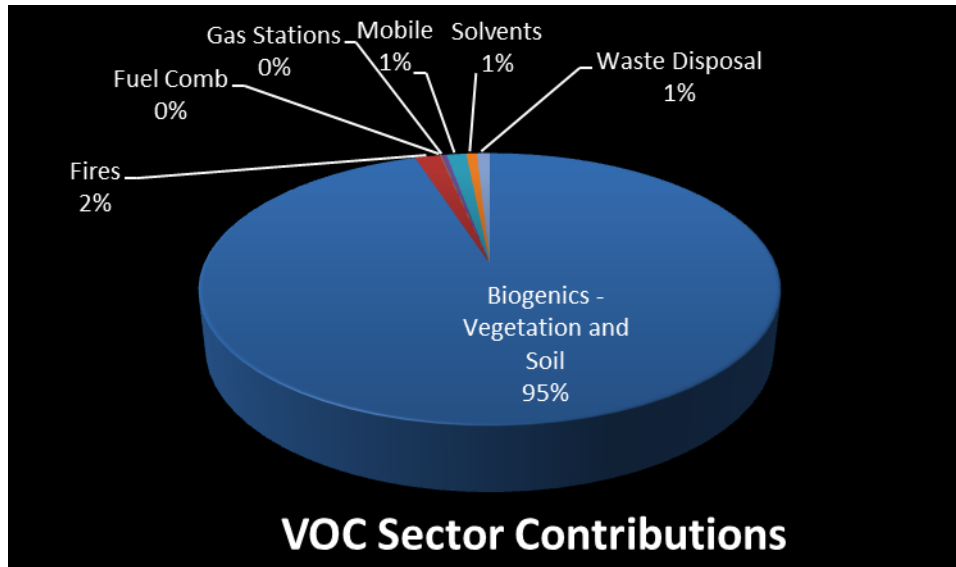




State	County	Sectors	VOC(Tpy)
GA	Crawford	Agriculture - Crops & Livestock Dust	
GA	Crawford	Biogenics - Vegetation and Soil	11222
GA	Crawford	Bulk Gasoline Terminals	0
GA	Crawford	Commercial Cooking	0
GA	Crawford	Dust - Construction Dust	
GA	Crawford	Dust - Paved Road Dust	
GA	Crawford	Dust - Unpaved Road Dust	
GA	Crawford	Fires - Agricultural Field Burning	18
GA	Crawford	Fires - Prescribed Fires	154
GA	Crawford	Fires - Wildfires	27
		Fires	199
GA	Crawford	Fuel Comb - Comm/Institutional - Biomass	0
GA	Crawford	Fuel Comb - Comm/Institutional - Coal	0
GA	Crawford	Fuel Comb - Comm/Institutional - Natural Gas	0
GA	Crawford	Fuel Comb - Comm/Institutional - Oil	0
GA	Crawford	Fuel Comb - Comm/Institutional - Other	0
GA	Crawford	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Crawford	Fuel Comb - Industrial Boilers, ICEs - Coal	0
GA	Crawford	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0
GA	Crawford	Fuel Comb - Industrial Boilers, ICEs - Oil	0
GA	Crawford	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Crawford	Fuel Comb - Residential - Natural Gas	0
GA	Crawford	Fuel Comb - Residential - Oil	0
GA	Crawford	Fuel Comb - Residential - Other	0
GA	Crawford	Fuel Comb - Residential - Wood	4
		Fuel Comb	5
GA	Crawford	Gas Stations	46
GA	Crawford	Industrial Processes - Mining	

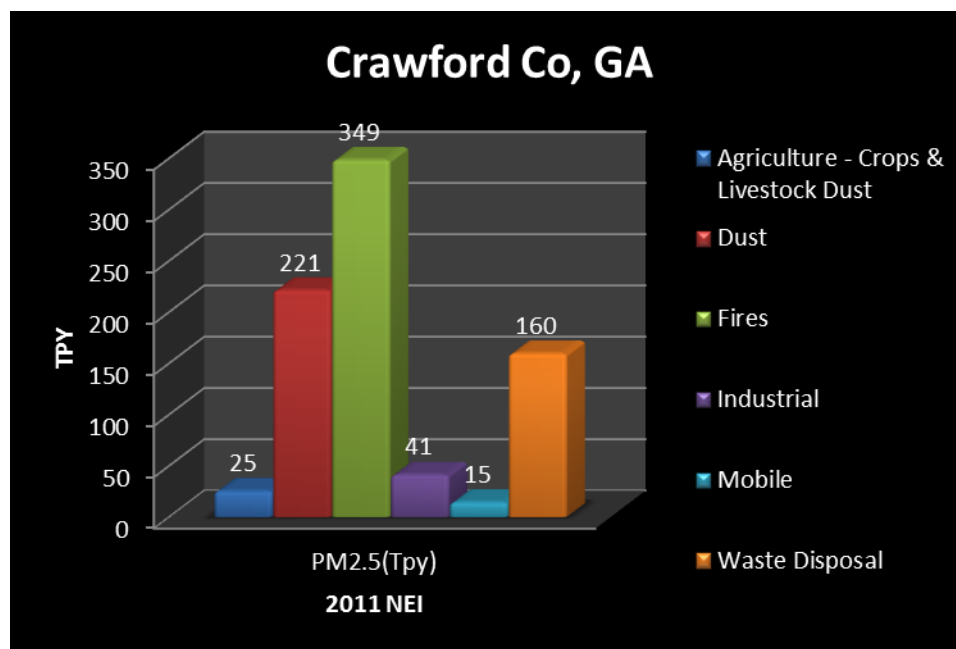
GA	Crawford	Industrial Processes - Storage and Transfer	0
GA	Crawford	Miscellaneous Non-Industrial NEC	5
GA	Crawford	Mobile - Aircraft	0
GA	Crawford	Mobile - Locomotives	1
GA	Crawford	Mobile - Non-Road Equipment - Diesel	4
GA	Crawford	Mobile - Non-Road Equipment - Gasoline	38
GA	Crawford	Mobile - Non-Road Equipment - Other	0
GA	Crawford	Mobile - On-Road Diesel Heavy Duty Vehicles	8
GA	Crawford	Mobile - On-Road Diesel Light Duty Vehicles	0
GA	Crawford	Mobile - On-Road Gasoline Heavy Duty Vehicles	4
GA	Crawford	Mobile - On-Road Gasoline Light Duty Vehicles	93
		Mobile	154
GA	Crawford	Solvent - Consumer & Commercial Solvent Use	61
GA	Crawford	Solvent - Degreasing	2
GA	Crawford	Solvent - Dry Cleaning	0
GA	Crawford	Solvent - Graphic Arts	0
GA	Crawford	Solvent - Industrial Surface Coating & Solvent Use	7
GA	Crawford	Solvent - Non-Industrial Surface Coating	15
		Solvents	84
GA	Crawford	Waste Disposal	100

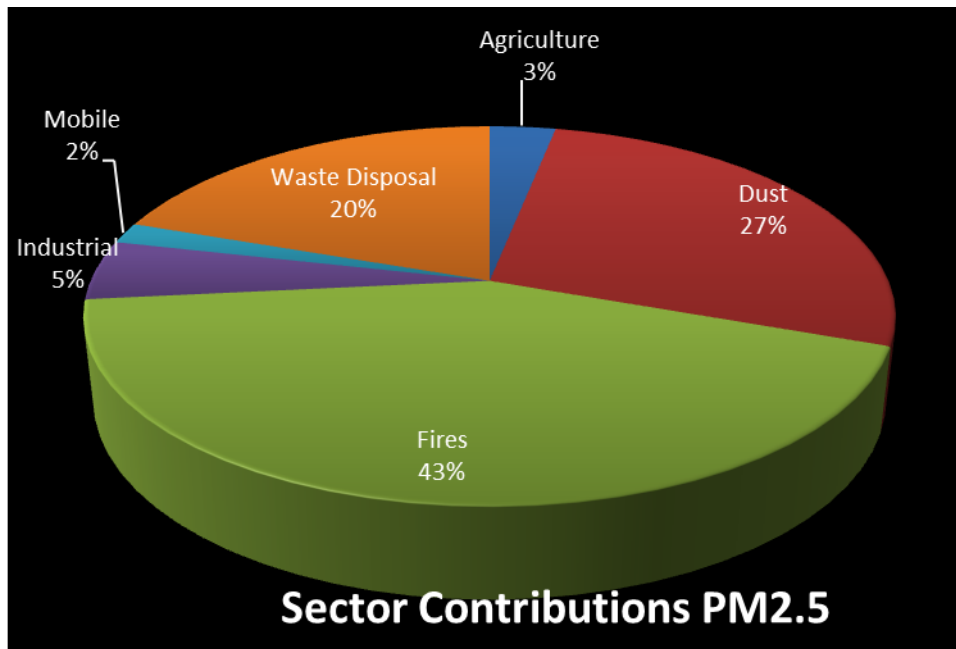




State	County	Sectors	PM2.5(Tpy)
GA	Crawford	Agriculture - Crops & Livestock Dust	25
GA	Crawford	Biogenics - Vegetation and Soil	
GA	Crawford	Bulk Gasoline Terminals	
GA	Crawford	Commercial Cooking	1
GA	Crawford	Dust - Construction Dust	6
GA	Crawford	Dust - Paved Road Dust	23
GA	Crawford	Dust - Unpaved Road Dust	192
		Dust	221
GA	Crawford	Fires - Agricultural Field Burning	23
GA	Crawford	Fires - Prescribed Fires	279
GA	Crawford	Fires - Wildfires	47
		Fires	349
GA	Crawford	Fuel Comb - Comm/Institutional - Biomass	0
GA	Crawford	Fuel Comb - Comm/Institutional - Coal	0
GA	Crawford	Fuel Comb - Comm/Institutional - Natural Gas	0
GA	Crawford	Fuel Comb - Comm/Institutional - Oil	0
GA	Crawford	Fuel Comb - Comm/Institutional - Other	0
GA	Crawford	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Crawford	Fuel Comb - Industrial Boilers, ICEs - Coal	0
GA	Crawford	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0
GA	Crawford	Fuel Comb - Industrial Boilers, ICEs - Oil	0
GA	Crawford	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Crawford	Fuel Comb - Residential - Natural Gas	0
GA	Crawford	Fuel Comb - Residential - Oil	0
GA	Crawford	Fuel Comb - Residential - Other	0
GA	Crawford	Fuel Comb - Residential - Wood	3
		Fuel Comb	3
GA	Crawford	Gas Stations	

GA	Crawford	Industrial Processes - Mining	41
GA	Crawford	Industrial Processes - Storage and Transfer	
		Industrial	41
GA	Crawford	Miscellaneous Non-Industrial NEC	0
GA	Crawford	Mobile - Aircraft	0
GA	Crawford	Mobile - Locomotives	1
GA	Crawford	Mobile - Non-Road Equipment - Diesel	4
GA	Crawford	Mobile - Non-Road Equipment - Gasoline	1
GA	Crawford	Mobile - Non-Road Equipment - Other	0
GA	Crawford	Mobile - On-Road Diesel Heavy Duty Vehicles	7
GA	Crawford	Mobile - On-Road Diesel Light Duty Vehicles	0
GA	Crawford	Mobile - On-Road Gasoline Heavy Duty Vehicles	0
GA	Crawford	Mobile - On-Road Gasoline Light Duty Vehicles	2
		Mobile	15
GA	Crawford	Solvent - Consumer & Commercial Solvent Use	
GA	Crawford	Solvent - Degreasing	
GA	Crawford	Solvent - Dry Cleaning	
GA	Crawford	Solvent - Graphic Arts	
GA	Crawford	Solvent - Industrial Surface Coating & Solvent Use	
GA	Crawford	Solvent - Non-Industrial Surface Coating	
GA	Crawford	Waste Disposal	160



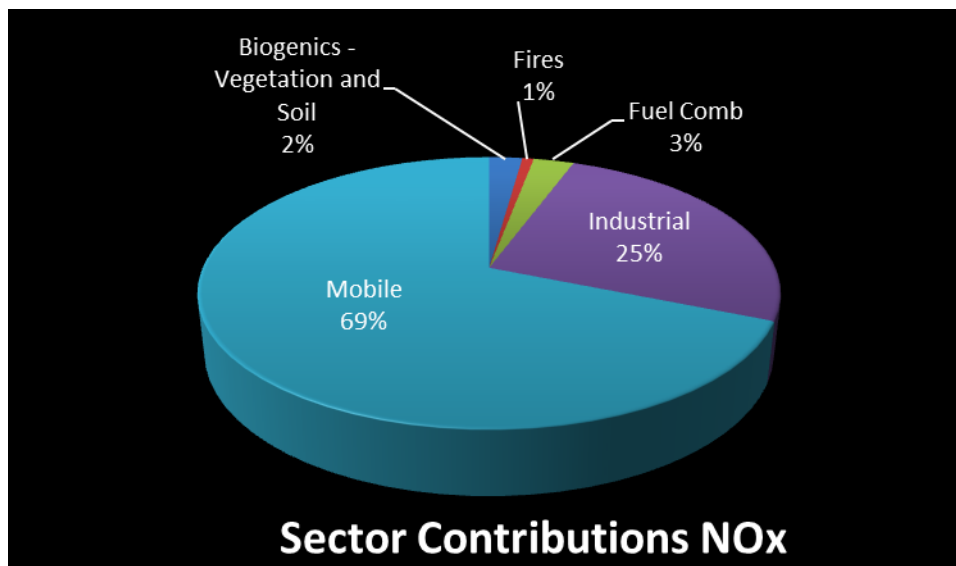
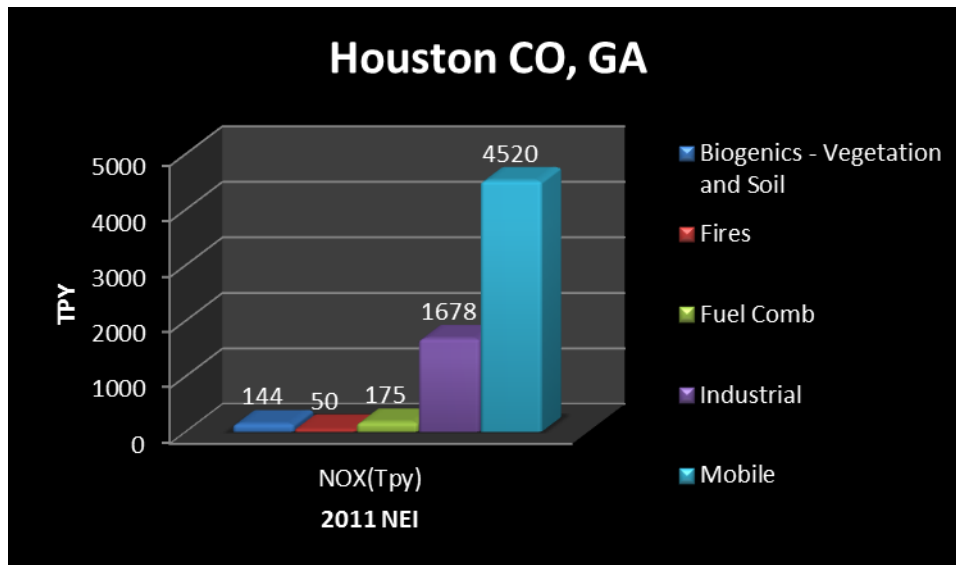


HOUSTON COUNTY

State	County	Sectors	NOX(Tpy)
GA	Houston	Agriculture - Crops & Livestock Dust	
GA	Houston	Biogenics - Vegetation and Soil	144
GA	Houston	Bulk Gasoline Terminals	
GA	Houston	Commercial Cooking	
GA	Houston	Dust - Construction Dust	
GA	Houston	Dust - Paved Road Dust	
GA	Houston	Dust - Unpaved Road Dust	
GA	Houston	Fires - Agricultural Field Burning	9
GA	Houston	Fires - Prescribed Fires	37
GA	Houston	Fires - Wildfires	4
		Fires	50
GA	Houston	Fuel Comb - Comm/Institutional - Biomass	0
GA	Houston	Fuel Comb - Comm/Institutional - Coal	0
GA	Houston	Fuel Comb - Comm/Institutional - Natural Gas	25
GA	Houston	Fuel Comb - Comm/Institutional - Oil	0
GA	Houston	Fuel Comb - Comm/Institutional - Other	1
GA	Houston	Fuel Comb - Electric Generation - Natural Gas	6
GA	Houston	Fuel Comb - Electric Generation - Oil	
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Biomass	
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Coal	0
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	64

GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	6
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Oil	13
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Oil	4
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Other	4
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Houston	Fuel Comb - Residential - Natural Gas	41
GA	Houston	Fuel Comb - Residential - Oil	0
GA	Houston	Fuel Comb - Residential - Other	6
GA	Houston	Fuel Comb - Residential - Wood	4
		Fuel Comb	175
GA	Houston	Gas Stations	
GA	Houston	Industrial Processes - Cement Manuf	1118
GA	Houston	Industrial Processes - Chemical Manuf	
GA	Houston	Industrial Processes - Mining	
GA	Houston	Industrial Processes - NEC	560
GA	Houston	Industrial Processes - NEC	
GA	Houston	Industrial Processes - Pulp & Paper	
GA	Houston	Industrial Processes - Storage and Transfer	
GA	Houston	Industrial Processes - Storage and Transfer	
		Industrial	1678
GA	Houston	Miscellaneous Non-Industrial NEC	1
GA	Houston	Mobile - Aircraft	0
GA	Houston	Mobile - Locomotives	225
GA	Houston	Mobile - Non-Road Equipment - Diesel	0
GA	Houston	Mobile - Non-Road Equipment - Diesel	420
GA	Houston	Mobile - Non-Road Equipment - Gasoline	0
GA	Houston	Mobile - Non-Road Equipment - Gasoline	45
GA	Houston	Mobile - Non-Road Equipment - Other	0
GA	Houston	Mobile - Non-Road Equipment - Other	30
GA	Houston	Mobile - On-Road Diesel Heavy Duty Vehicles	1645
GA	Houston	Mobile - On-Road Diesel Light Duty Vehicles	31
GA	Houston	Mobile - On-Road Gasoline Heavy Duty Vehicles	135
GA	Houston	Mobile - On-Road Gasoline Light Duty Vehicles	1991
		Mobile	4520
GA	Houston	Solvent - Consumer & Commercial Solvent Use	
GA	Houston	Solvent - Degreasing	
GA	Houston	Solvent - Degreasing	
GA	Houston	Solvent - Dry Cleaning	
GA	Houston	Solvent - Graphic Arts	
GA	Houston	Solvent - Graphic Arts	
GA	Houston	Solvent - Industrial Surface Coating & Solvent Use	0
GA	Houston	Solvent - Industrial Surface Coating & Solvent Use	

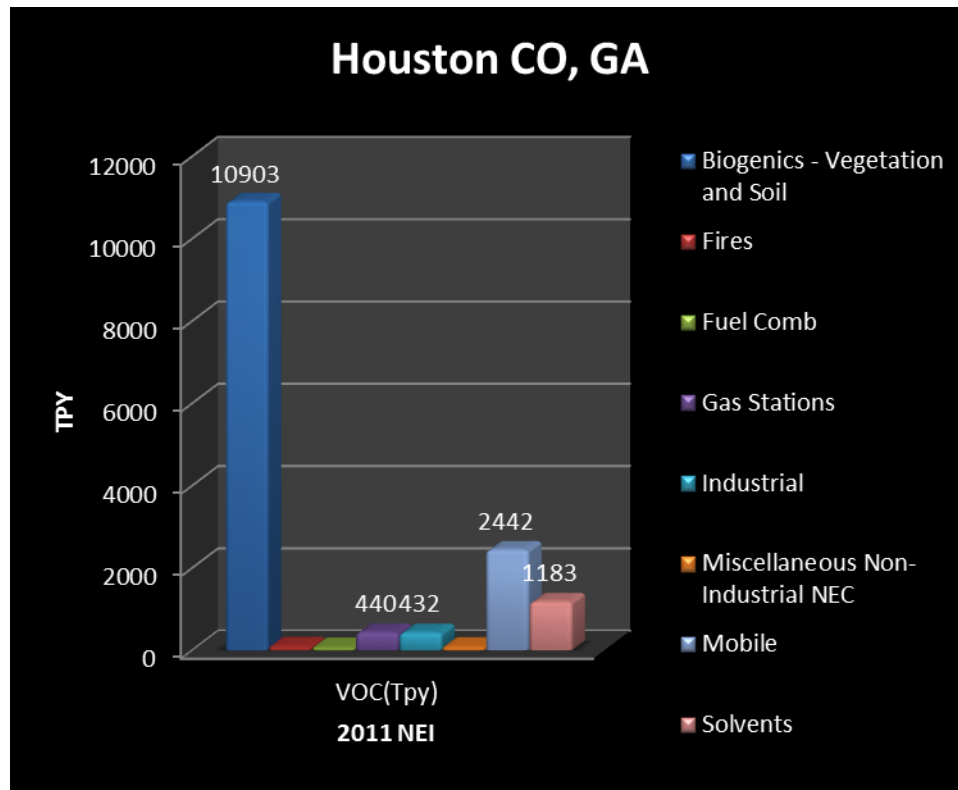
GA	Houston	Solvent - Non-Industrial Surface Coating	
GA	Houston	Waste Disposal	13

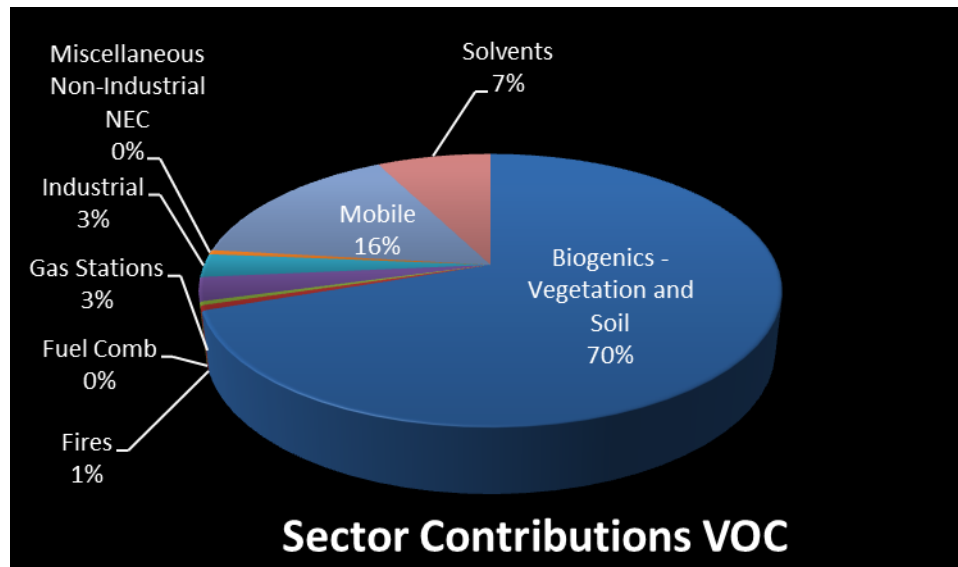


State	County	Sectors	VOC(Tpy)
GA	Houston	Agriculture - Crops & Livestock Dust	
GA	Houston	Biogenics - Vegetation and Soil	10903
GA	Houston	Bulk Gasoline Terminals	2
GA	Houston	Commercial Cooking	6
GA	Houston	Dust - Construction Dust	
GA	Houston	Dust - Paved Road Dust	
GA	Houston	Dust - Unpaved Road Dust	
GA	Houston	Fires - Agricultural Field Burning	15
GA	Houston	Fires - Prescribed Fires	70
GA	Houston	Fires - Wildfires	8
		Fires	93

GA	Houston	Fuel Comb - Comm/Institutional - Biomass	0
GA	Houston	Fuel Comb - Comm/Institutional - Coal	0
GA	Houston	Fuel Comb - Comm/Institutional - Natural Gas	1
GA	Houston	Fuel Comb - Comm/Institutional - Oil	0
GA	Houston	Fuel Comb - Comm/Institutional - Other	0
GA	Houston	Fuel Comb - Electric Generation - Natural Gas	1
GA	Houston	Fuel Comb - Electric Generation - Oil	0
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Biomass	5
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Coal	0
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	7
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	1
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Oil	1
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Oil	0
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Other	1
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Houston	Fuel Comb - Residential - Natural Gas	2
GA	Houston	Fuel Comb - Residential - Oil	0
GA	Houston	Fuel Comb - Residential - Other	0
GA	Houston	Fuel Comb - Residential - Wood	50
		Fuel Comb	68
GA	Houston	Gas Stations	440
GA	Houston	Industrial Processes - Cement Manuf	81
GA	Houston	Industrial Processes - Chemical Manuf	28
GA	Houston	Industrial Processes - Mining	
GA	Houston	Industrial Processes - NEC	55
GA	Houston	Industrial Processes - NEC	
GA	Houston	Industrial Processes - Pulp & Paper	251
GA	Houston	Industrial Processes - Storage and Transfer	
GA	Houston	Industrial Processes - Storage and Transfer	17
		Industrial	432
GA	Houston	Miscellaneous Non-Industrial NEC	81
GA	Houston	Mobile - Aircraft	1
GA	Houston	Mobile - Locomotives	12
GA	Houston	Mobile - Non-Road Equipment - Diesel	0
GA	Houston	Mobile - Non-Road Equipment - Diesel	42
GA	Houston	Mobile - Non-Road Equipment - Gasoline	0
GA	Houston	Mobile - Non-Road Equipment - Gasoline	564
GA	Houston	Mobile - Non-Road Equipment - Other	0
GA	Houston	Mobile - Non-Road Equipment - Other	8
GA	Houston	Mobile - On-Road Diesel Heavy Duty Vehicles	126
GA	Houston	Mobile - On-Road Diesel Light Duty Vehicles	4
GA	Houston	Mobile - On-Road Gasoline Heavy Duty Vehicles	76

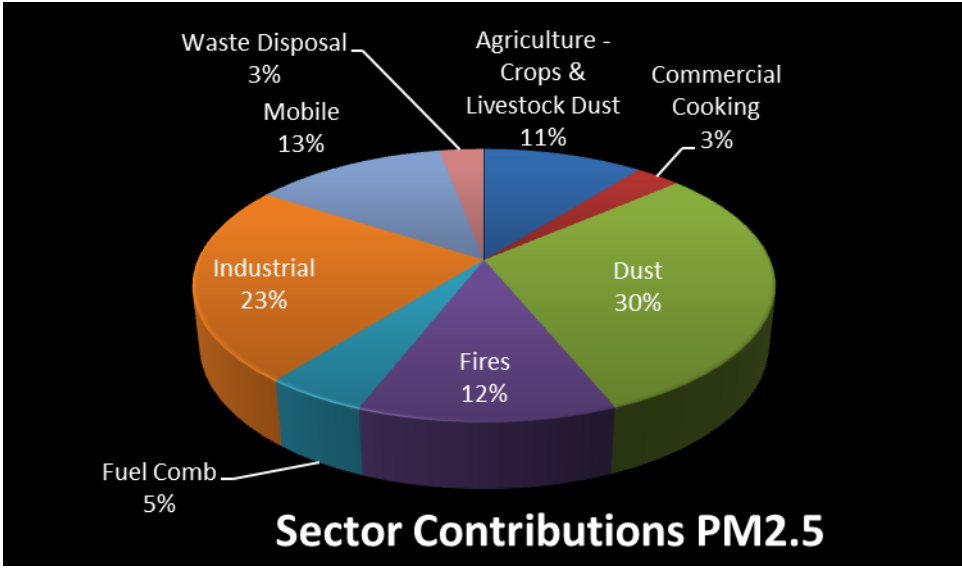
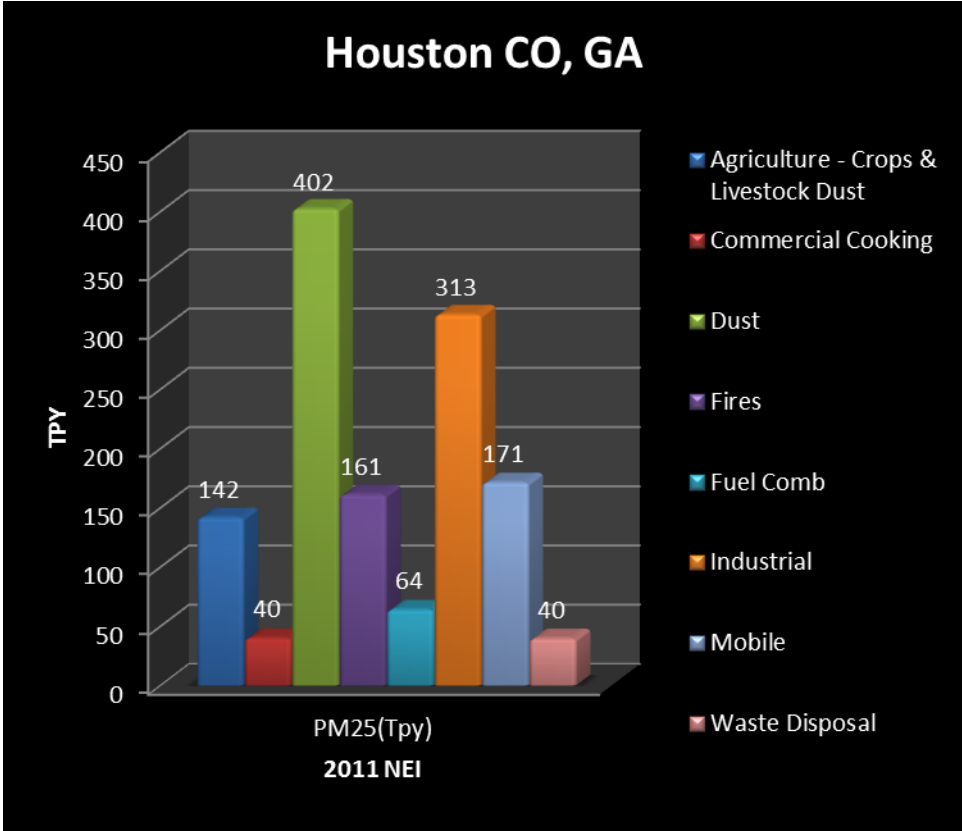
GA	Houston	Mobile - On-Road Gasoline Light Duty Vehicles	1609
		Mobile	2442
GA	Houston	Solvent - Consumer & Commercial Solvent Use	631
GA	Houston	Solvent - Degreasing	9
GA	Houston	Solvent - Degreasing	34
GA	Houston	Solvent - Dry Cleaning	32
GA	Houston	Solvent - Graphic Arts	137
GA	Houston	Solvent - Graphic Arts	0
GA	Houston	Solvent - Industrial Surface Coating & Solvent Use	71
GA	Houston	Solvent - Industrial Surface Coating & Solvent Use	106
GA	Houston	Solvent - Non-Industrial Surface Coating	164
		Solvents	1183
GA	Houston	Waste Disposal	29





State	County	Sectors	PM25(Tpy)
GA	Houston	Agriculture - Crops & Livestock Dust	142
GA	Houston	Biogenics - Vegetation and Soil	
GA	Houston	Bulk Gasoline Terminals	
GA	Houston	Commercial Cooking	40
GA	Houston	Dust - Construction Dust	103
GA	Houston	Dust - Paved Road Dust	86
GA	Houston	Dust - Unpaved Road Dust	212
		Dust	402
GA	Houston	Fires - Agricultural Field Burning	19
GA	Houston	Fires - Prescribed Fires	128
GA	Houston	Fires - Wildfires	14
		Fires	161
GA	Houston	Fuel Comb - Comm/Institutional - Biomass	0
GA	Houston	Fuel Comb - Comm/Institutional - Coal	0
GA	Houston	Fuel Comb - Comm/Institutional - Natural Gas	0
GA	Houston	Fuel Comb - Comm/Institutional - Oil	0
GA	Houston	Fuel Comb - Comm/Institutional - Other	0
GA	Houston	Fuel Comb - Electric Generation - Natural Gas	1
GA	Houston	Fuel Comb - Electric Generation - Oil	0
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Biomass	
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Coal	0
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	22
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Oil	1
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Oil	0
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Houston	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Houston	Fuel Comb - Residential - Natural Gas	0

GA	Houston	Fuel Comb - Residential - Oil	0
GA	Houston	Fuel Comb - Residential - Other	0
GA	Houston	Fuel Comb - Residential - Wood	40
		Fuel Comb	64
GA	Houston	Gas Stations	
GA	Houston	Industrial Processes - Cement Manuf	161
GA	Houston	Industrial Processes - Chemical Manuf	
GA	Houston	Industrial Processes - Mining	41
GA	Houston	Industrial Processes - NEC	88
GA	Houston	Industrial Processes - NEC	19
GA	Houston	Industrial Processes - Pulp & Paper	0
GA	Houston	Industrial Processes - Storage and Transfer	4
GA	Houston	Industrial Processes - Storage and Transfer	
		Industrial	313
GA	Houston	Miscellaneous Non-Industrial NEC	1
GA	Houston	Mobile - Aircraft	0
GA	Houston	Mobile - Locomotives	8
GA	Houston	Mobile - Non-Road Equipment - Diesel	0
GA	Houston	Mobile - Non-Road Equipment - Diesel	35
GA	Houston	Mobile - Non-Road Equipment - Gasoline	0
GA	Houston	Mobile - Non-Road Equipment - Gasoline	17
GA	Houston	Mobile - Non-Road Equipment - Other	0
GA	Houston	Mobile - Non-Road Equipment - Other	0
GA	Houston	Mobile - On-Road Diesel Heavy Duty Vehicles	75
GA	Houston	Mobile - On-Road Diesel Light Duty Vehicles	2
GA	Houston	Mobile - On-Road Gasoline Heavy Duty Vehicles	2
GA	Houston	Mobile - On-Road Gasoline Light Duty Vehicles	32
		Mobile	171
GA	Houston	Solvent - Consumer & Commercial Solvent Use	
GA	Houston	Solvent - Degreasing	
GA	Houston	Solvent - Degreasing	
GA	Houston	Solvent - Dry Cleaning	
GA	Houston	Solvent - Graphic Arts	
GA	Houston	Solvent - Graphic Arts	
GA	Houston	Solvent - Industrial Surface Coating & Solvent Use	3
GA	Houston	Solvent - Industrial Surface Coating & Solvent Use	
GA	Houston	Solvent - Non-Industrial Surface Coating	
GA	Houston	Waste Disposal	40

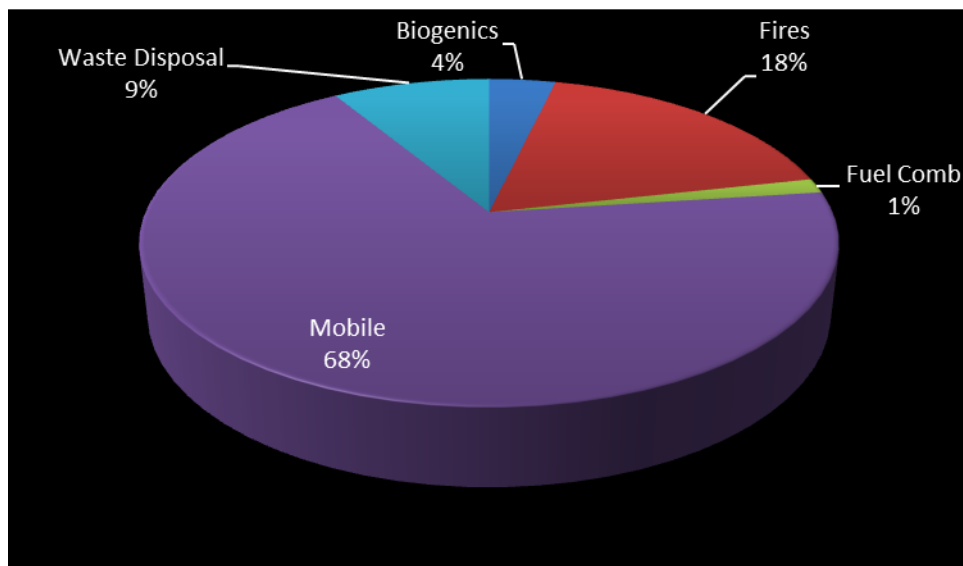
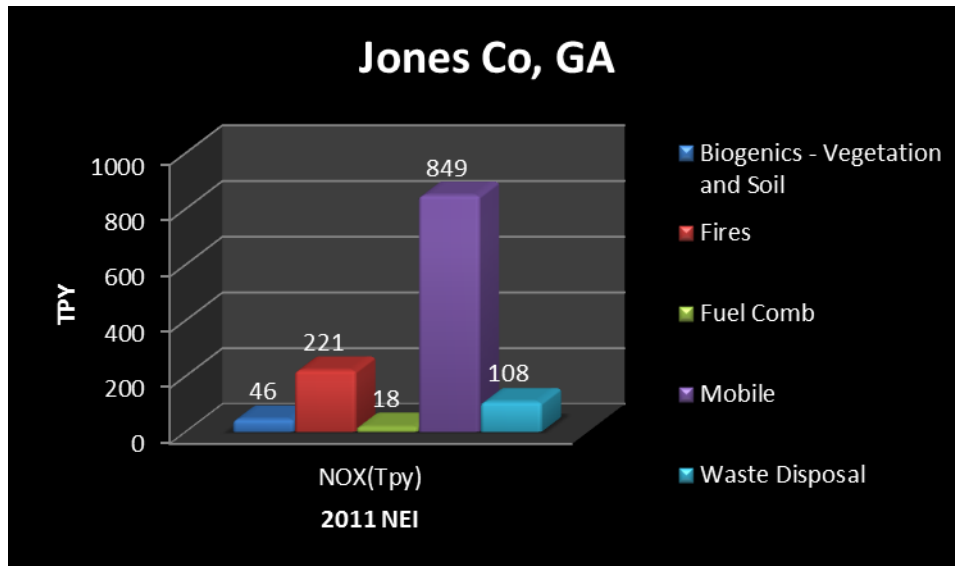


JONES COUNTY

State	County	Sectors	NOX(Tpy)
GA	Jones	Agriculture - Crops & Livestock Dust	
GA	Jones	Biogenics - Vegetation and Soil	46

GA	Jones	Bulk Gasoline Terminals	
GA	Jones	Commercial Cooking	
GA	Jones	Dust - Construction Dust	
GA	Jones	Dust - Paved Road Dust	
GA	Jones	Dust - Unpaved Road Dust	
GA	Jones	Fires - Agricultural Field Burning	4
GA	Jones	Fires - Prescribed Fires	216
GA	Jones	Fires - Wildfires	2
		Fires	221
GA	Jones	Fuel Comb - Comm/Institutional - Biomass	0
GA	Jones	Fuel Comb - Comm/Institutional - Coal	0
		Fuel Comb - Comm/Institutional - Natural Gas	
GA	Jones		2
GA	Jones	Fuel Comb - Comm/Institutional - Oil	0
GA	Jones	Fuel Comb - Comm/Institutional - Other	0
		Fuel Comb - Industrial Boilers, ICEs - Biomass	
GA	Jones		0
GA	Jones	Fuel Comb - Industrial Boilers, ICEs - Coal	0
		Fuel Comb - Industrial Boilers, ICEs - Natural Gas	
GA	Jones		0
GA	Jones	Fuel Comb - Industrial Boilers, ICEs - Oil	0
GA	Jones	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Jones	Fuel Comb - Residential - Natural Gas	9
GA	Jones	Fuel Comb - Residential - Oil	0
GA	Jones	Fuel Comb - Residential - Other	6
GA	Jones	Fuel Comb - Residential - Wood	1
		Fuel Comb	18
GA	Jones	Gas Stations	
GA	Jones	Industrial Processes - Mining	
GA	Jones	Industrial Processes - NEC	
GA	Jones	Industrial Processes - Storage and Transfer	
GA	Jones	Miscellaneous Non-Industrial NEC	0
GA	Jones	Mobile - Locomotives	70
GA	Jones	Mobile - Non-Road Equipment - Diesel	77
GA	Jones	Mobile - Non-Road Equipment - Gasoline	10
GA	Jones	Mobile - Non-Road Equipment - Other	1
		Mobile - On-Road Diesel Heavy Duty Vehicles	
GA	Jones		266
		Mobile - On-Road Diesel Light Duty Vehicles	
GA	Jones		5
		Mobile - On-Road Gasoline Heavy Duty Vehicles	
GA	Jones		28
		Mobile - On-Road Gasoline Light Duty Vehicles	
GA	Jones		391
		Mobile	849
		Solvent - Consumer & Commercial Solvent Use	
GA	Jones		
GA	Jones	Solvent - Degreasing	
GA	Jones	Solvent - Dry Cleaning	

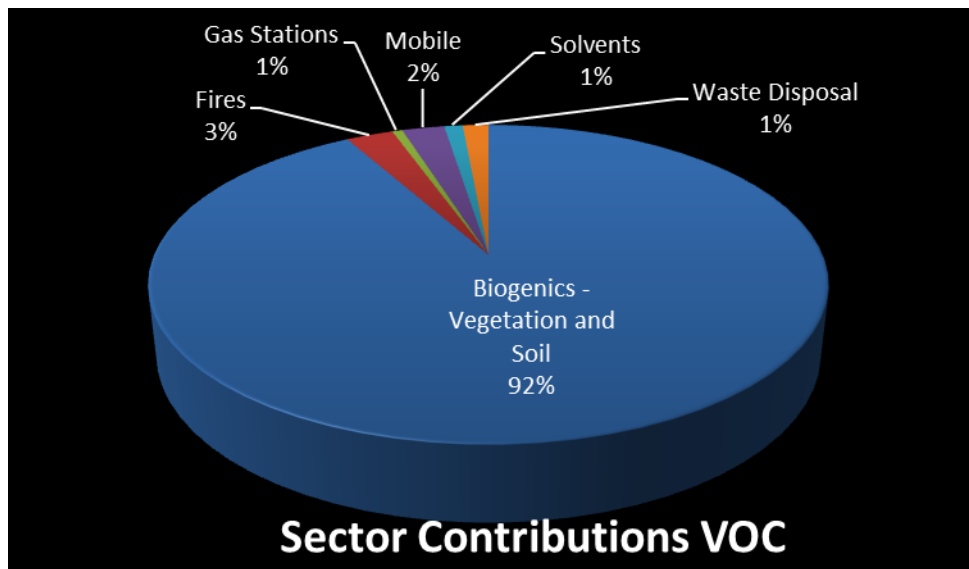
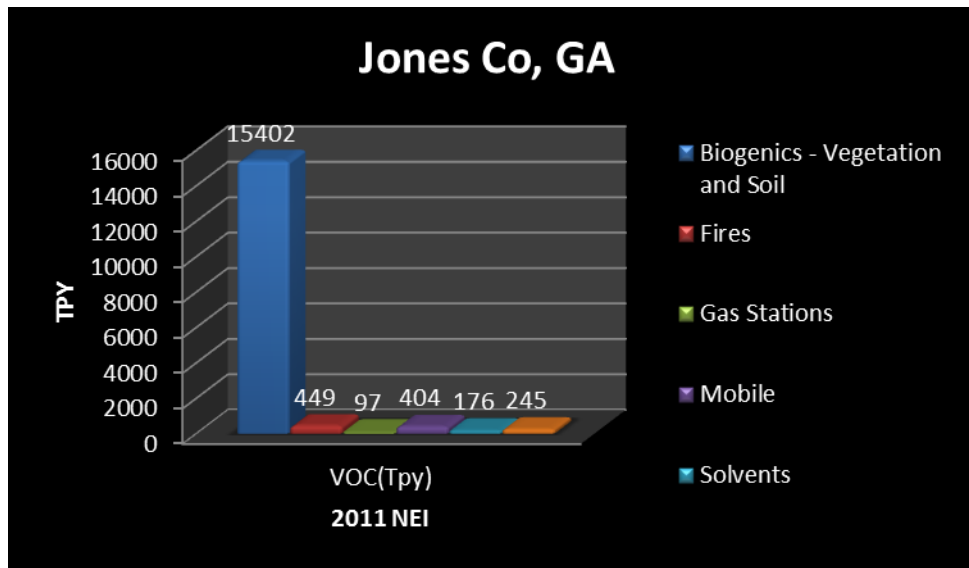
GA	Jones	Solvent - Graphic Arts	
GA	Jones	Solvent - Industrial Surface Coating & Solvent Use	
GA	Jones	Solvent - Non-Industrial Surface Coating	
GA	Jones	Waste Disposal	108



State	County	Sectors	VOC(Tpy)
GA	Jones	Agriculture - Crops & Livestock Dust	
GA	Jones	Biogenics - Vegetation and Soil	15402
GA	Jones	Bulk Gasoline Terminals	0
GA	Jones	Commercial Cooking	0
GA	Jones	Dust - Construction Dust	

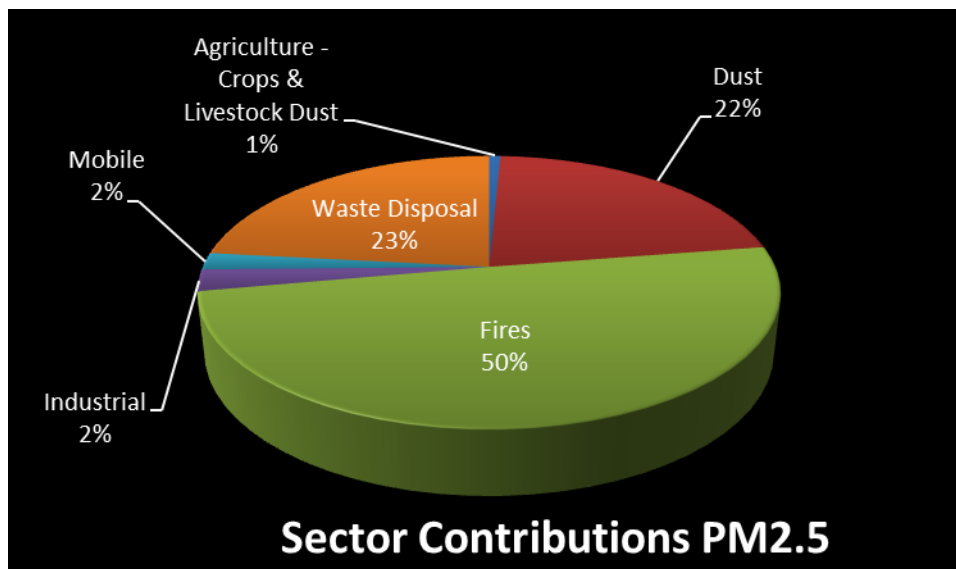
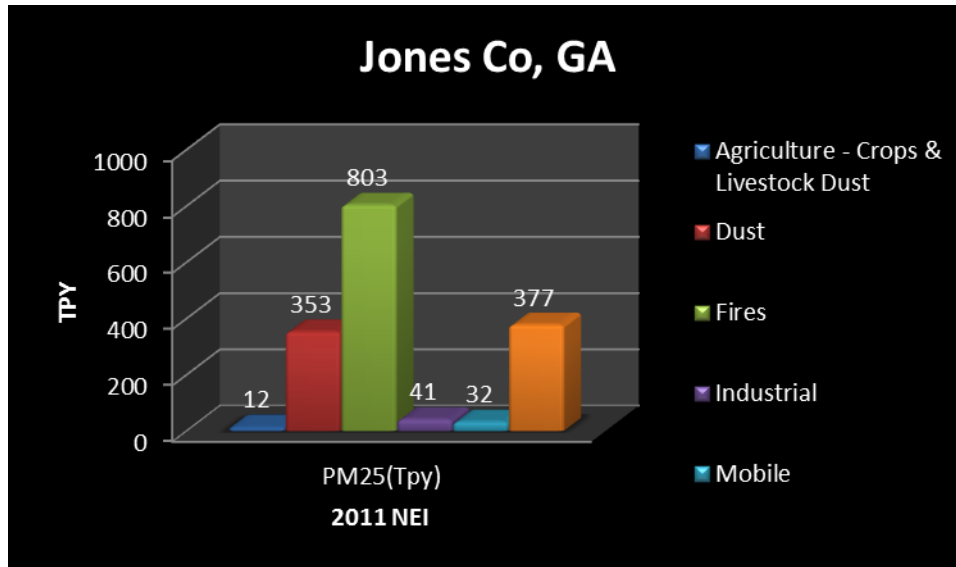
GA	Jones	Dust - Paved Road Dust	
GA	Jones	Dust - Unpaved Road Dust	
GA	Jones	Fires - Agricultural Field Burning	6
GA	Jones	Fires - Prescribed Fires	440
GA	Jones	Fires - Wildfires	4
		Fires	449
GA	Jones	Fuel Comb - Comm/Institutional - Biomass	0
GA	Jones	Fuel Comb - Comm/Institutional - Coal	0
GA	Jones	Fuel Comb - Comm/Institutional - Natural Gas	0
GA	Jones	Fuel Comb - Comm/Institutional - Oil	0
GA	Jones	Fuel Comb - Comm/Institutional - Other	0
GA	Jones	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Jones	Fuel Comb - Industrial Boilers, ICEs - Coal	0
GA	Jones	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0
GA	Jones	Fuel Comb - Industrial Boilers, ICEs - Oil	0
GA	Jones	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Jones	Fuel Comb - Residential - Natural Gas	1
GA	Jones	Fuel Comb - Residential - Oil	0
GA	Jones	Fuel Comb - Residential - Other	0
GA	Jones	Fuel Comb - Residential - Wood	9
		Fuel Comb	10
GA	Jones	Gas Stations	97
GA	Jones	Industrial Processes - Mining	
GA	Jones	Industrial Processes - NEC	12
GA	Jones	Industrial Processes - Storage and Transfer	0
		Industrial	12
GA	Jones	Miscellaneous Non-Industrial NEC	8
GA	Jones	Mobile - Locomotives	4
GA	Jones	Mobile - Non-Road Equipment - Diesel	8
GA	Jones	Mobile - Non-Road Equipment - Gasoline	71
GA	Jones	Mobile - Non-Road Equipment - Other	0
GA	Jones	Mobile - On-Road Diesel Heavy Duty Vehicles	16
GA	Jones	Mobile - On-Road Diesel Light Duty Vehicles	1
GA	Jones	Mobile - On-Road Gasoline Heavy Duty Vehicles	12
GA	Jones	Mobile - On-Road Gasoline Light Duty Vehicles	292
		Mobile	404
GA	Jones	Solvent - Consumer & Commercial Solvent Use	126
GA	Jones	Solvent - Degreasing	5
GA	Jones	Solvent - Dry Cleaning	2
GA	Jones	Solvent - Graphic Arts	0
GA	Jones	Solvent - Industrial Surface Coating & Solvent Use	10
GA	Jones	Solvent - Non-Industrial Surface Coating	34

		Solvents	176
GA	Jones	Waste Disposal	245



State	County	Sectors	PM25(Tpy)
GA	Jones	Agriculture - Crops & Livestock Dust	12
GA	Jones	Biogenics - Vegetation and Soil	
GA	Jones	Bulk Gasoline Terminals	
GA	Jones	Commercial Cooking	3
GA	Jones	Dust - Construction Dust	3
GA	Jones	Dust - Paved Road Dust	54
GA	Jones	Dust - Unpaved Road Dust	296
		Dust	353

GA	Jones	Fires - Agricultural Field Burning	8
GA	Jones	Fires - Prescribed Fires	789
GA	Jones	Fires - Wildfires	6
		Fires	803
GA	Jones	Fuel Comb - Comm/Institutional - Biomass	0
GA	Jones	Fuel Comb - Comm/Institutional - Coal	0
GA	Jones	Fuel Comb - Comm/Institutional - Natural Gas	0
GA	Jones	Fuel Comb - Comm/Institutional - Oil	0
GA	Jones	Fuel Comb - Comm/Institutional - Other	0
GA	Jones	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Jones	Fuel Comb - Industrial Boilers, ICEs - Coal	0
GA	Jones	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0
GA	Jones	Fuel Comb - Industrial Boilers, ICEs - Oil	0
GA	Jones	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Jones	Fuel Comb - Residential - Natural Gas	0
GA	Jones	Fuel Comb - Residential - Oil	0
GA	Jones	Fuel Comb - Residential - Other	0
GA	Jones	Fuel Comb - Residential - Wood	8
GA	Jones	Gas Stations	
GA	Jones	Industrial Processes - Mining	41
GA	Jones	Industrial Processes - NEC	
GA	Jones	Industrial Processes - Storage and Transfer	
		Industrial	41
GA	Jones	Miscellaneous Non-Industrial NEC	0
GA	Jones	Mobile - Locomotives	2
GA	Jones	Mobile - Non-Road Equipment - Diesel	6
GA	Jones	Mobile - Non-Road Equipment - Gasoline	3
GA	Jones	Mobile - Non-Road Equipment - Other	0
GA	Jones	Mobile - On-Road Diesel Heavy Duty Vehicles	15
GA	Jones	Mobile - On-Road Diesel Light Duty Vehicles	0
GA	Jones	Mobile - On-Road Gasoline Heavy Duty Vehicles	0
GA	Jones	Mobile - On-Road Gasoline Light Duty Vehicles	6
		Mobile	32
GA	Jones	Solvent - Consumer & Commercial Solvent Use	
GA	Jones	Solvent - Degreasing	
GA	Jones	Solvent - Dry Cleaning	
GA	Jones	Solvent - Graphic Arts	
GA	Jones	Solvent - Industrial Surface Coating & Solvent Use	
GA	Jones	Solvent - Non-Industrial Surface Coating	
GA	Jones	Waste Disposal	377

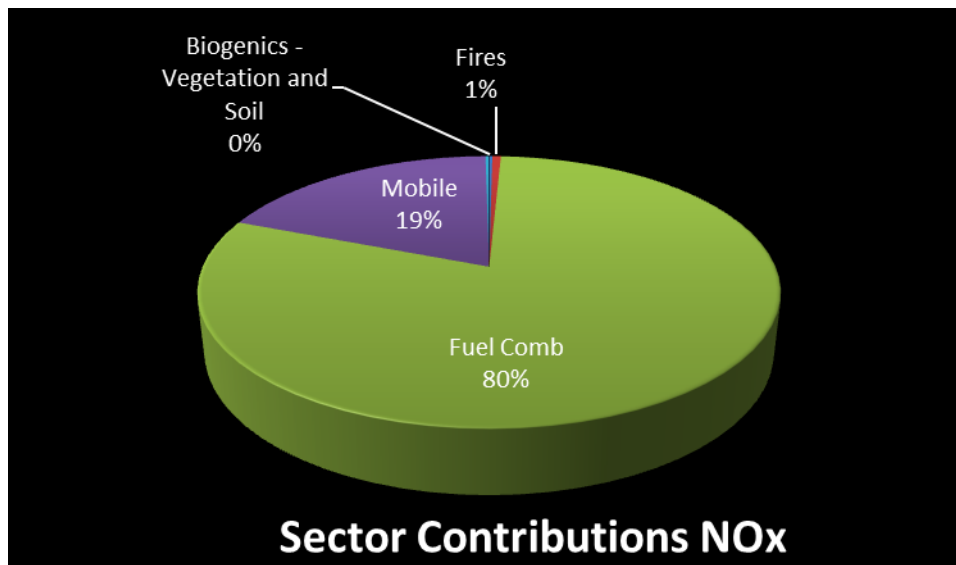
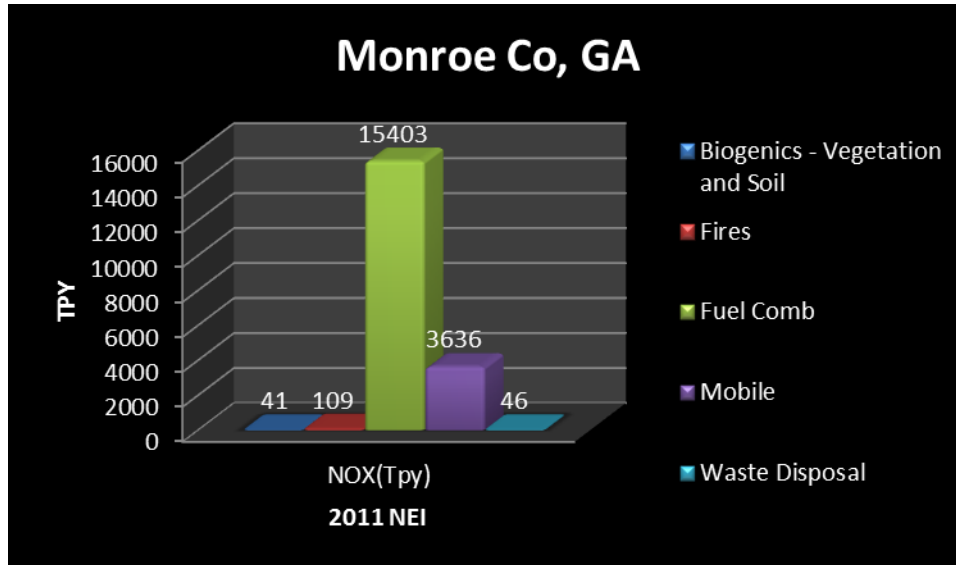


MONROE COUNTY

State	County	Sectors	NOX(Tpy)
GA	Monroe	Agriculture - Crops & Livestock Dust	
GA	Monroe	Biogenics - Vegetation and Soil	41
GA	Monroe	Bulk Gasoline Terminals	
GA	Monroe	Commercial Cooking	
GA	Monroe	Dust - Construction Dust	
GA	Monroe	Dust - Paved Road Dust	
GA	Monroe	Dust - Unpaved Road Dust	
GA	Monroe	Fires - Agricultural Field Burning	2

GA	Monroe	Fires - Prescribed Fires	104
GA	Monroe	Fires - Wildfires	2
		Fires	109
GA	Monroe	Fuel Comb - Comm/Institutional - Biomass	0
GA	Monroe	Fuel Comb - Comm/Institutional - Coal	0
GA	Monroe	Fuel Comb - Comm/Institutional - Natural Gas	3
GA	Monroe	Fuel Comb - Comm/Institutional - Oil	0
GA	Monroe	Fuel Comb - Comm/Institutional - Other	0
GA	Monroe	Fuel Comb - Electric Generation - Coal	15361
GA	Monroe	Fuel Comb - Electric Generation - Natural Gas	22
GA	Monroe	Fuel Comb - Electric Generation - Oil	
GA	Monroe	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Monroe	Fuel Comb - Industrial Boilers, ICEs - Coal	0
GA	Monroe	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0
GA	Monroe	Fuel Comb - Industrial Boilers, ICEs - Oil	0
GA	Monroe	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Monroe	Fuel Comb - Residential - Natural Gas	8
GA	Monroe	Fuel Comb - Residential - Oil	0
GA	Monroe	Fuel Comb - Residential - Other	7
GA	Monroe	Fuel Comb - Residential - Wood	1
		Fuel Comb	15403
GA	Monroe	Gas Stations	
GA	Monroe	Industrial Processes - Mining	
GA	Monroe	Industrial Processes - NEC	1
GA	Monroe	Industrial Processes - NEC	
GA	Monroe	Industrial Processes - Storage and Transfer	
GA	Monroe	Miscellaneous Non-Industrial NEC	0
GA	Monroe	Mobile - Aircraft	0
GA	Monroe	Mobile - Locomotives	272
GA	Monroe	Mobile - Non-Road Equipment - Diesel	73
GA	Monroe	Mobile - Non-Road Equipment - Gasoline	28
GA	Monroe	Mobile - Non-Road Equipment - Other	4
GA	Monroe	Mobile - On-Road Diesel Heavy Duty Vehicles	2088
GA	Monroe	Mobile - On-Road Diesel Light Duty Vehicles	14
GA	Monroe	Mobile - On-Road Gasoline Heavy Duty Vehicles	104
GA	Monroe	Mobile - On-Road Gasoline Light Duty Vehicles	1052
		Mobile	3636
GA	Monroe	Solvent - Consumer & Commercial Solvent Use	
GA	Monroe	Solvent - Degreasing	
GA	Monroe	Solvent - Dry Cleaning	
GA	Monroe	Solvent - Graphic Arts	

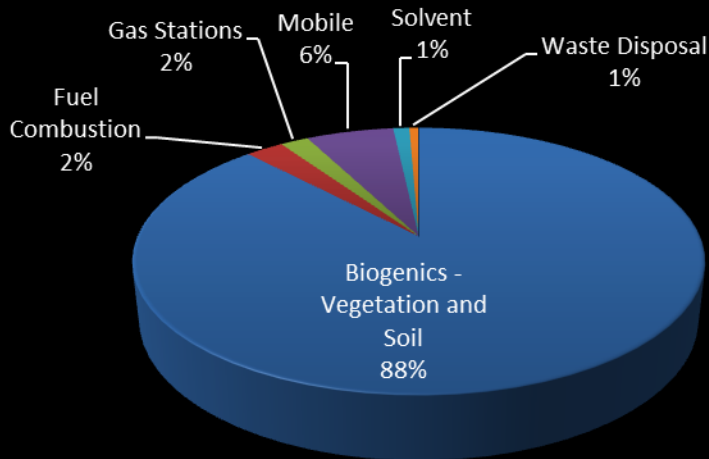
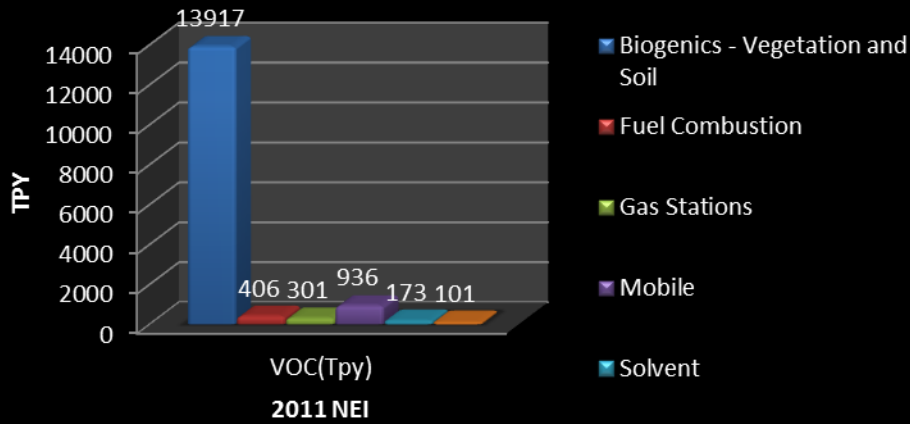
GA	Monroe	Solvent - Industrial Surface Coating & Solvent Use	
GA	Monroe	Solvent - Non-Industrial Surface Coating	
GA	Monroe	Waste Disposal	46



State	County	Sectors	VOC(Tpy)
GA	Monroe	Biogenics - Vegetation and Soil	13917
GA	Monroe	Bulk Gasoline Terminals	0
GA	Monroe	Commercial Cooking	1
GA	Monroe	Fuel Comb - Comm/Institutional - Biomass	0
GA	Monroe	Fuel Comb - Comm/Institutional - Coal	0

GA	Monroe	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Monroe	Fuel Comb - Industrial Boilers, ICEs - Coal	0
GA	Monroe	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Monroe	Fuel Comb - Comm/Institutional - Oil	0
GA	Monroe	Fuel Comb - Industrial Boilers, ICEs - Oil	0
GA	Monroe	Fuel Comb - Residential - Oil	0
GA	Monroe	Fuel Comb - Comm/Institutional - Other	0
GA	Monroe	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0
GA	Monroe	Fuel Comb - Comm/Institutional - Natural Gas	0
GA	Monroe	Fuel Comb - Electric Generation - Oil	0
GA	Monroe	Fuel Comb - Residential - Other	0
GA	Monroe	Fuel Comb - Residential - Natural Gas	0
GA	Monroe	Fuel Comb - Residential - Wood	10
GA	Monroe	Fuel Comb - Electric Generation - Coal	395
		Fuel Combustion	406
GA	Monroe	Gas Stations	301
GA	Monroe	Industrial Processes - Storage and Transfer	1
GA	Monroe	Industrial Processes - NEC	10
		Industrial Processes	11
GA	Monroe	Miscellaneous Non-Industrial NEC	13
GA	Monroe	Mobile - Aircraft	0
GA	Monroe	Mobile - Non-Road Equipment - Other	1
GA	Monroe	Mobile - On-Road Diesel Light Duty Vehicles	1
GA	Monroe	Mobile - Non-Road Equipment - Diesel	7
GA	Monroe	Mobile - Locomotives	15
GA	Monroe	Mobile - On-Road Gasoline Heavy Duty Vehicles	33
GA	Monroe	Mobile - On-Road Diesel Heavy Duty Vehicles	106
GA	Monroe	Mobile - Non-Road Equipment - Gasoline	304
GA	Monroe	Mobile - On-Road Gasoline Light Duty Vehicles	469
		Mobile	936
GA	Monroe	Solvent - Graphic Arts	0
GA	Monroe	Solvent - Dry Cleaning	1
GA	Monroe	Solvent - Degreasing	7
GA	Monroe	Solvent - Industrial Surface Coating & Solvent Use	16
GA	Monroe	Solvent - Non-Industrial Surface Coating	31
GA	Monroe	Solvent - Consumer & Commercial Solvent Use	118
		Solvent	173
GA	Monroe	Waste Disposal	101

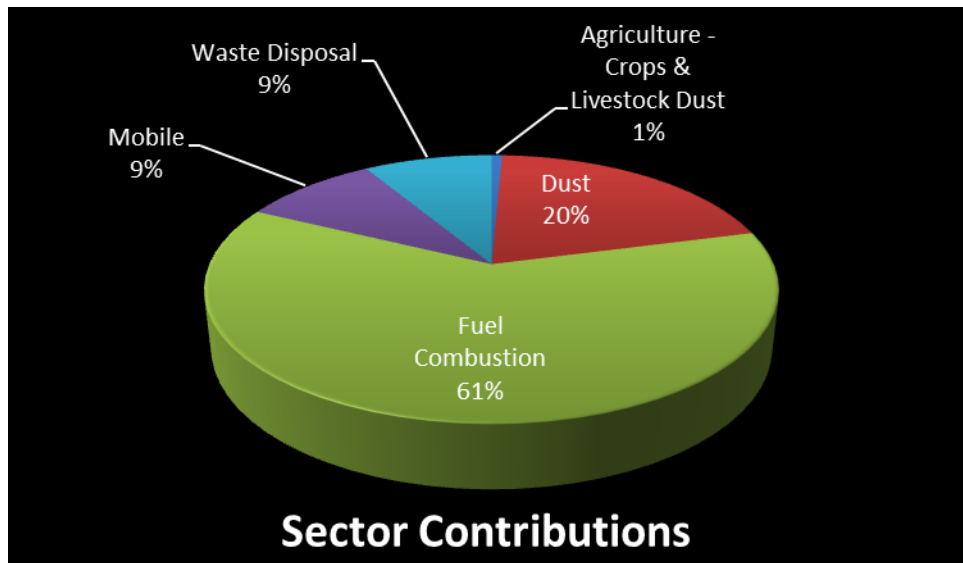
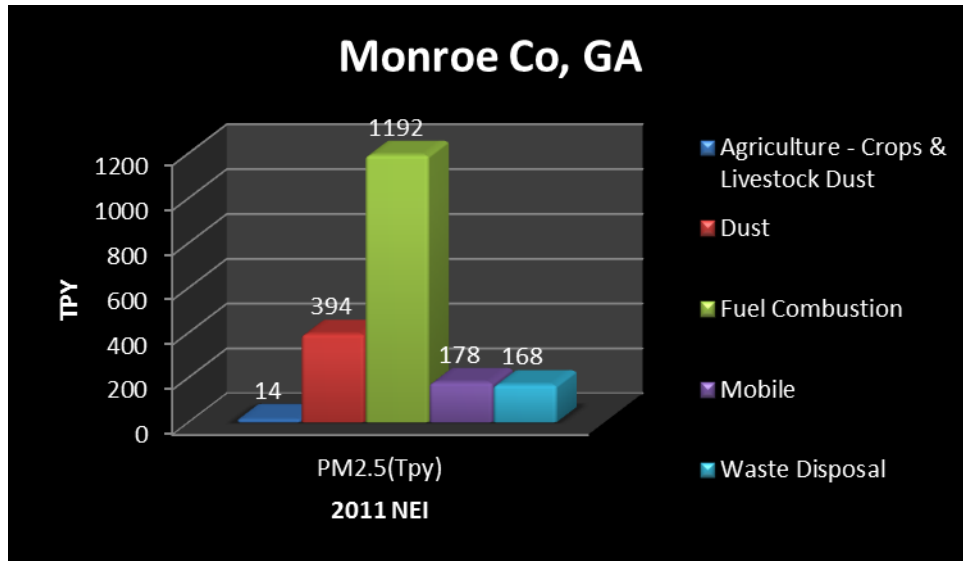
Monroe Co, GA



Sector Contributions

State	County	Sectors	PM2.5(Tpy)
GA	Monroe	Agriculture - Crops & Livestock Dust	14
GA	Monroe	Commercial Cooking	8
GA	Monroe	Dust - Construction Dust	8
GA	Monroe	Dust - Paved Road Dust	64
GA	Monroe	Dust - Unpaved Road Dust	323
		Dust	394
GA	Monroe	Fuel Comb - Comm/Institutional - Biomass	0
GA	Monroe	Fuel Comb - Comm/Institutional - Coal	0
GA	Monroe	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Monroe	Fuel Comb - Industrial Boilers, ICEs - Coal	0
GA	Monroe	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0

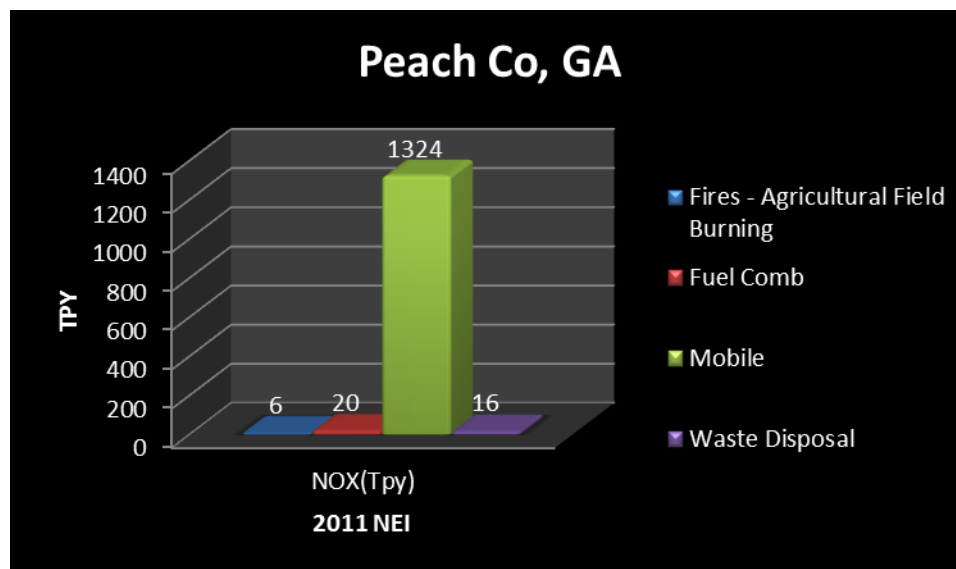
GA	Monroe	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Monroe	Fuel Comb - Comm/Institutional - Natural Gas	0
GA	Monroe	Fuel Comb - Comm/Institutional - Other	0
GA	Monroe	Fuel Comb - Comm/Institutional - Oil	0
GA	Monroe	Fuel Comb - Residential - Oil	0
GA	Monroe	Fuel Comb - Industrial Boilers, ICEs - Oil	0
GA	Monroe	Fuel Comb - Residential - Other	0
GA	Monroe	Fuel Comb - Residential - Natural Gas	0
GA	Monroe	Fuel Comb - Electric Generation - Oil	0
GA	Monroe	Fuel Comb - Residential - Wood	8
GA	Monroe	Fuel Comb - Electric Generation - Natural Gas	25
GA	Monroe	Fuel Comb - Electric Generation - Coal	1160
		Fuel Combustion	1192
GA	Monroe	Industrial Processes - NEC	0
GA	Monroe	Industrial Processes - Mining	41
		Industrial Processes	41
GA	Monroe	Miscellaneous Non-Industrial NEC	0
GA	Monroe	Mobile - Aircraft	0
GA	Monroe	Mobile - Non-Road Equipment - Other	0
GA	Monroe	Mobile - On-Road Diesel Light Duty Vehicles	1
GA	Monroe	Mobile - On-Road Gasoline Heavy Duty Vehicles	2
GA	Monroe	Mobile - Non-Road Equipment - Diesel	6
GA	Monroe	Mobile - Locomotives	9
GA	Monroe	Mobile - Non-Road Equipment - Gasoline	11
GA	Monroe	Mobile - On-Road Gasoline Light Duty Vehicles	34
GA	Monroe	Mobile - On-Road Diesel Heavy Duty Vehicles	115
		Mobile	178
GA	Monroe	Waste Disposal	168

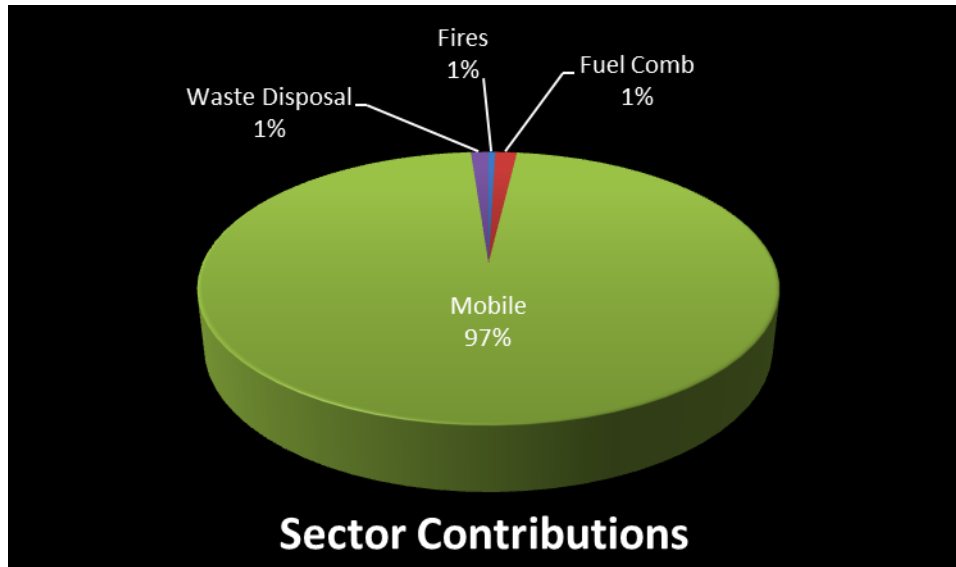


PEACH COUNTY

State	County	Sectors	NOX(Tpy)
GA	Peach	Agriculture - Crops & Livestock Dust	
GA	Peach	Dust - Paved Road Dust	
GA	Peach	Fires - Agricultural Field Burning	6
GA	Peach	Fuel Comb - Comm/Institutional - Biomass	0
GA	Peach	Fuel Comb - Comm/Institutional - Natural Gas	3
GA	Peach	Fuel Comb - Comm/Institutional - Oil	0
GA	Peach	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Peach	Fuel Comb - Industrial Boilers, ICEs - Coal	0

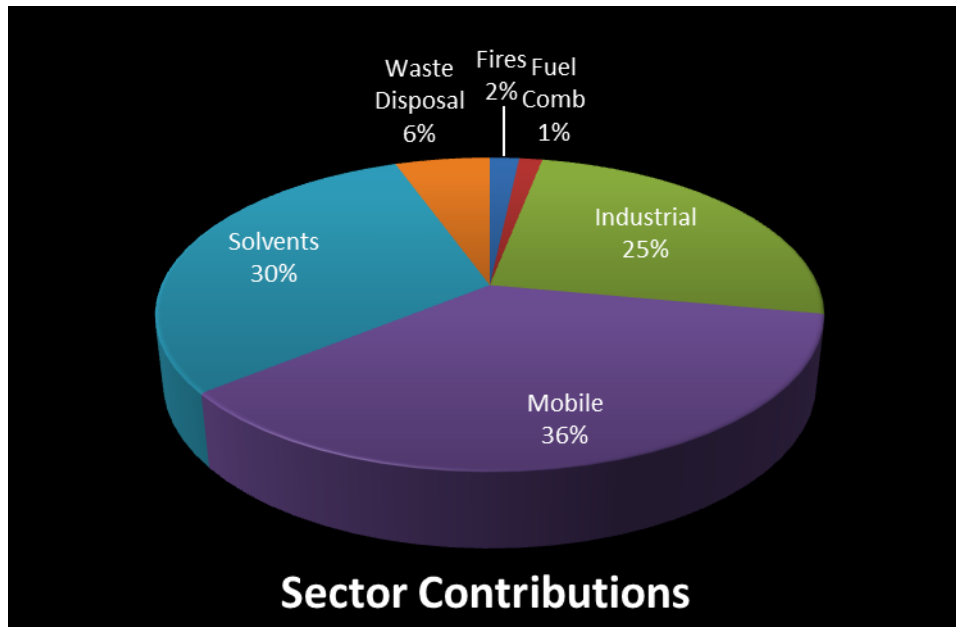
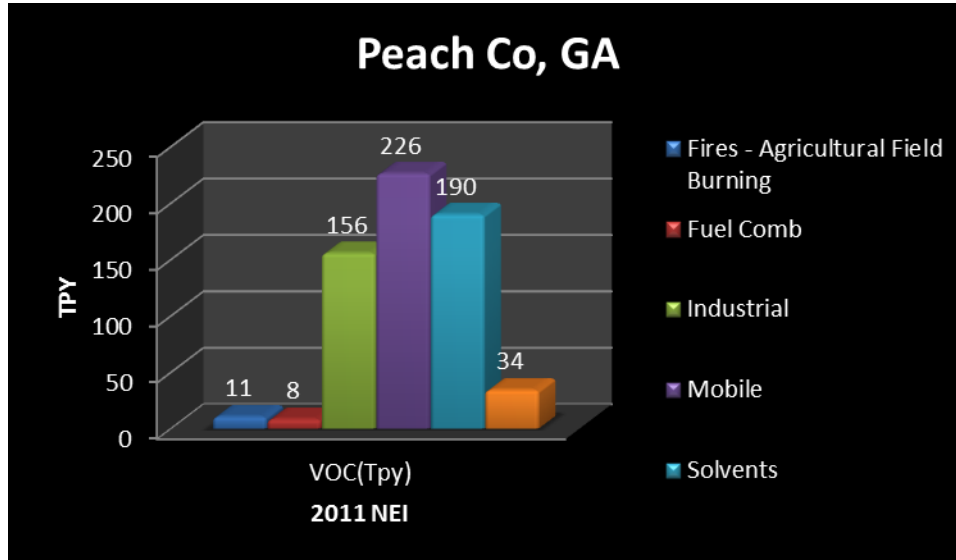
GA	Peach	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	2
GA	Peach	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Peach	Fuel Comb - Residential - Natural Gas	10
GA	Peach	Fuel Comb - Residential - Oil	0
GA	Peach	Fuel Comb - Residential - Other	4
GA	Peach	Fuel Comb - Residential - Wood	1
		Fuel Comb	20
GA	Peach	Industrial Processes - Mining	
GA	Peach	Industrial Processes - NEC	0
GA	Peach	Industrial Processes - Storage and Transfer	
GA	Peach	Mobile - Locomotives	118
GA	Peach	Mobile - Non-Road Equipment - Diesel	92
GA	Peach	Mobile - Non-Road Equipment - Gasoline	18
GA	Peach	Mobile - Non-Road Equipment - Other	20
GA	Peach	Mobile - On-Road Diesel Heavy Duty Vehicles	1021
GA	Peach	Mobile - On-Road Diesel Light Duty Vehicles	8
GA	Peach	Mobile - On-Road Gasoline Heavy Duty Vehicles	46
		Mobile	1324
GA	Peach	Solvent - Consumer & Commercial Solvent Use	
GA	Peach	Solvent - Dry Cleaning	
GA	Peach	Solvent - Graphic Arts	
GA	Peach	Solvent - Industrial Surface Coating & Solvent Use	
GA	Peach	Waste Disposal	16





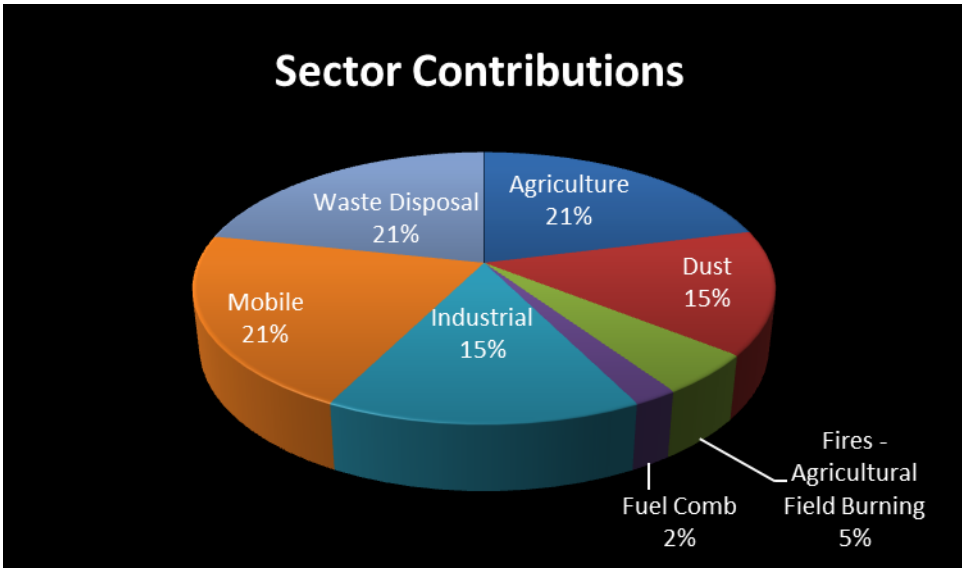
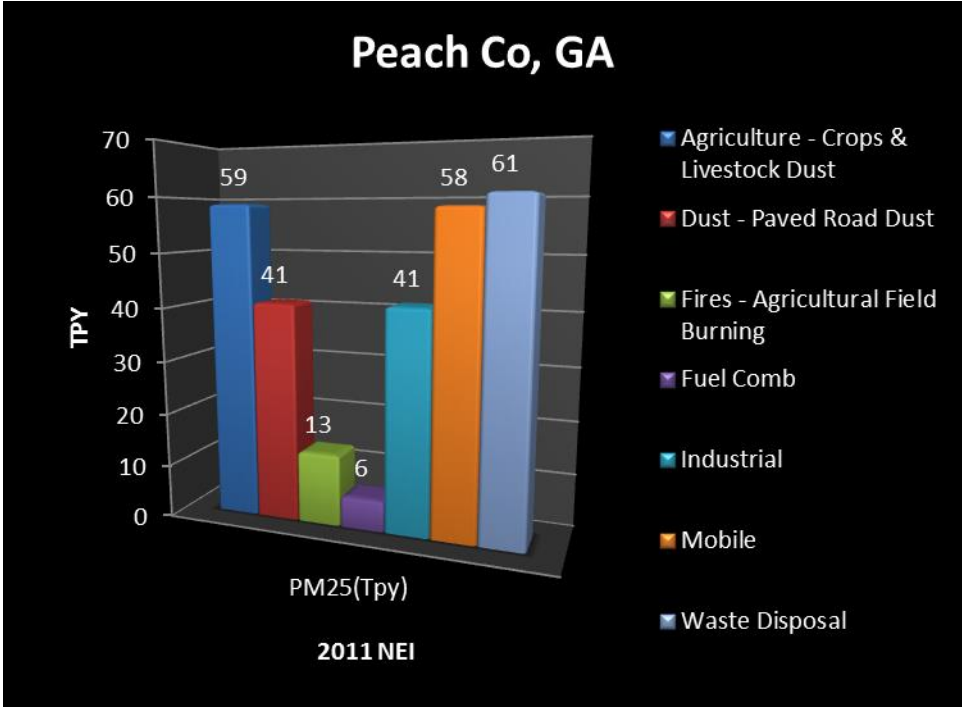
State	County	Sectors	VOC(Tpy)
GA	Peach	Agriculture - Crops & Livestock Dust	
GA	Peach	Dust - Paved Road Dust	
GA	Peach	Fires - Agricultural Field Burning	11
GA	Peach	Fuel Comb - Comm/Institutional - Biomass	0
GA	Peach	Fuel Comb - Comm/Institutional - Natural Gas	0
GA	Peach	Fuel Comb - Comm/Institutional - Oil	0
GA	Peach	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Peach	Fuel Comb - Industrial Boilers, ICEs - Coal	0
GA	Peach	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0
GA	Peach	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Peach	Fuel Comb - Residential - Natural Gas	1
GA	Peach	Fuel Comb - Residential - Oil	0
GA	Peach	Fuel Comb - Residential - Other	0
GA	Peach	Fuel Comb - Residential - Wood	7
		Fuel Comb	8
GA	Peach	Industrial Processes - Mining	
GA	Peach	Industrial Processes - NEC	155
GA	Peach	Industrial Processes - Storage and Transfer	0
		Industrial	156
GA	Peach	Mobile - Locomotives	7
GA	Peach	Mobile - Non-Road Equipment - Diesel	9
GA	Peach	Mobile - Non-Road Equipment - Gasoline	107
GA	Peach	Mobile - Non-Road Equipment - Other	5
GA	Peach	Mobile - On-Road Diesel Heavy Duty Vehicles	80
GA	Peach	Mobile - On-Road Diesel Light Duty Vehicles	1
GA	Peach	Mobile - On-Road Gasoline Heavy Duty Vehicles	18
		Mobile	226
GA	Peach	Solvent - Consumer & Commercial Solvent Use	162
GA	Peach	Solvent - Dry Cleaning	2

GA	Peach	Solvent - Graphic Arts	0
GA	Peach	Solvent - Industrial Surface Coating & Solvent Use	26
		Solvents	190
GA	Peach	Waste Disposal	34



State	County	Sectors	PM25(Tpy)
GA	Peach	Agriculture - Crops & Livestock Dust	59
GA	Peach	Dust - Paved Road Dust	41
GA	Peach	Fires - Agricultural Field Burning	13

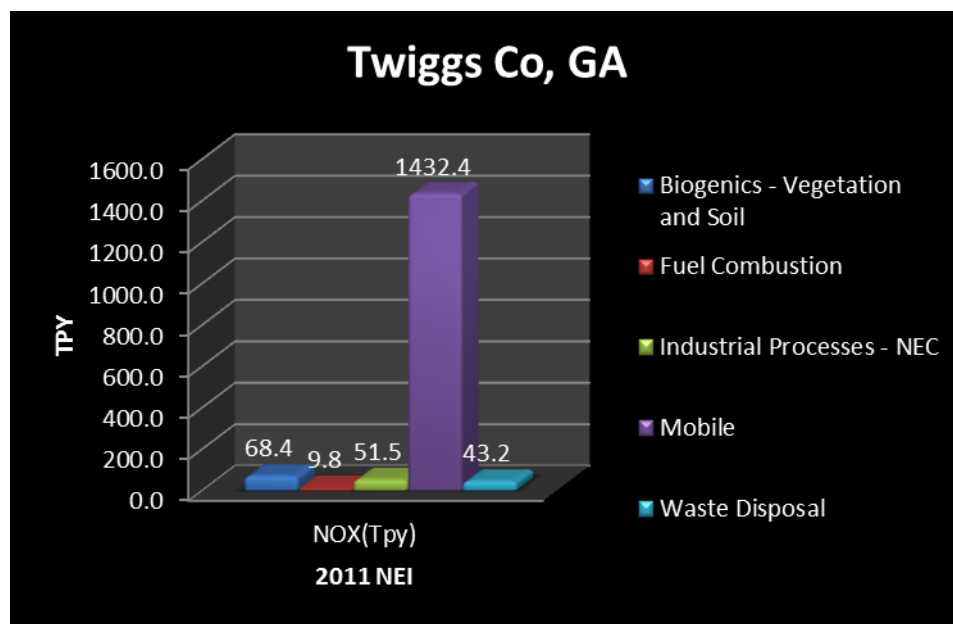
GA	Peach	Fuel Comb - Comm/Institutional - Biomass	0
GA	Peach	Fuel Comb - Comm/Institutional - Natural Gas	0
GA	Peach	Fuel Comb - Comm/Institutional - Oil	0
GA	Peach	Fuel Comb - Industrial Boilers, ICEs - Biomass	0
GA	Peach	Fuel Comb - Industrial Boilers, ICEs - Coal	0
GA	Peach	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0
GA	Peach	Fuel Comb - Industrial Boilers, ICEs - Other	0
GA	Peach	Fuel Comb - Residential - Natural Gas	0
GA	Peach	Fuel Comb - Residential - Oil	0
GA	Peach	Fuel Comb - Residential - Other	0
GA	Peach	Fuel Comb - Residential - Wood	6
		Fuel Comb	6
GA	Peach	Industrial Processes - Mining	41
GA	Peach	Industrial Processes - NEC	
GA	Peach	Industrial Processes - Storage and Transfer	
		Industrial	41
GA	Peach	Mobile - Locomotives	4
GA	Peach	Mobile - Non-Road Equipment - Diesel	8
GA	Peach	Mobile - Non-Road Equipment - Gasoline	5
GA	Peach	Mobile - Non-Road Equipment - Other	0
GA	Peach	Mobile - On-Road Diesel Heavy Duty Vehicles	40
GA	Peach	Mobile - On-Road Diesel Light Duty Vehicles	1
GA	Peach	Mobile - On-Road Gasoline Heavy Duty Vehicles	0
		Mobile	58
GA	Peach	Solvent - Consumer & Commercial Solvent Use	
GA	Peach	Solvent - Dry Cleaning	
GA	Peach	Solvent - Graphic Arts	
GA	Peach	Solvent - Industrial Surface Coating & Solvent Use	
GA	Peach	Waste Disposal	61

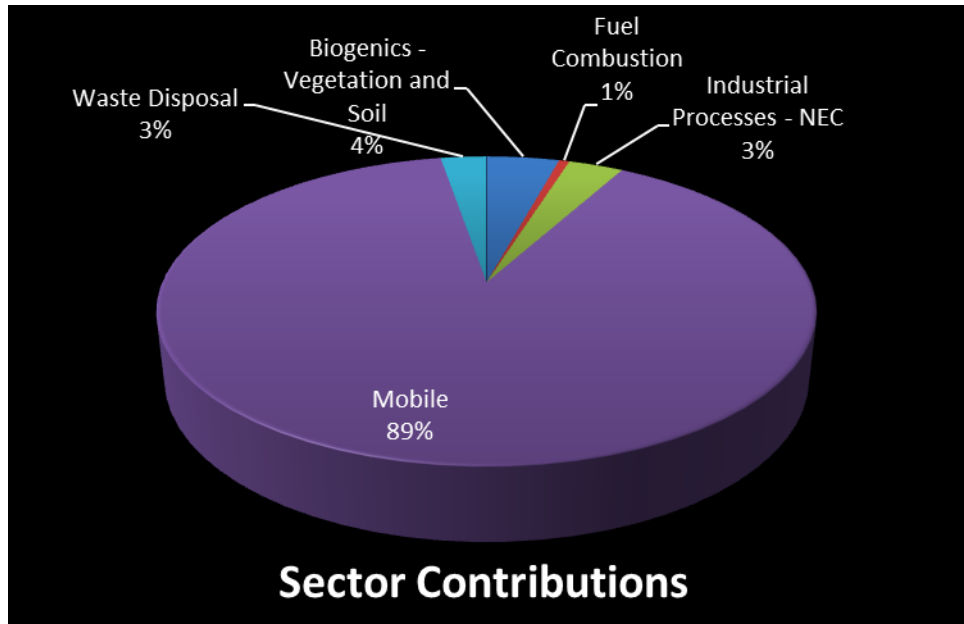


TWIGGS

State	County	Sectors	NOX(Tpy)
GA	Twiggs	Biogenics - Vegetation and Soil	68.4
GA	Twiggs	Fuel Comb - Comm/Institutional - Biomass	0.0
GA	Twiggs	Fuel Comb - Comm/Institutional - Coal	0.0
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Biomass	0.0
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Coal	0.0
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Other	0.0
GA	Twiggs	Fuel Comb - Comm/Institutional - Oil	0.0

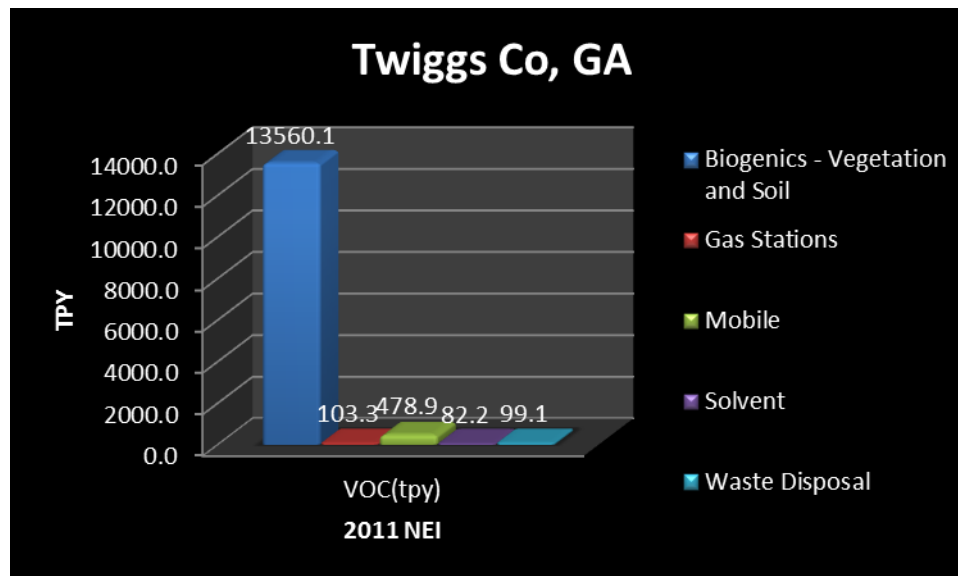
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Oil	0.0
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0.0
GA	Twiggs	Fuel Comb - Comm/Institutional - Other	0.0
GA	Twiggs	Fuel Comb - Residential - Oil	0.0
GA	Twiggs	Fuel Comb - Residential - Wood	0.3
GA	Twiggs	Fuel Comb - Comm/Institutional - Natural Gas	0.6
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	1.9
GA	Twiggs	Fuel Comb - Residential - Natural Gas	2.6
GA	Twiggs	Fuel Comb - Residential - Other	4.3
		Fuel Combustion	9.8
GA	Twiggs	Industrial Processes - NEC	51.5
GA	Twiggs	Miscellaneous Non-Industrial NEC	0.1
GA	Twiggs	Mobile - Aircraft	0.0
GA	Twiggs	Mobile - Non-Road Equipment - Other	0.2
GA	Twiggs	Mobile - On-Road Diesel Light Duty Vehicles	4.4
GA	Twiggs	Mobile - Non-Road Equipment - Gasoline	10.6
GA	Twiggs	Mobile - On-Road Gasoline Heavy Duty Vehicles	26.1
GA	Twiggs	Mobile - Non-Road Equipment - Diesel	30.6
GA	Twiggs	Mobile - Locomotives	37.8
GA	Twiggs	Mobile - On-Road Gasoline Light Duty Vehicles	319.2
GA	Twiggs	Mobile - On-Road Diesel Heavy Duty Vehicles	1003.6
		Mobile	1432.4
GA	Twiggs	Waste Disposal	43.2

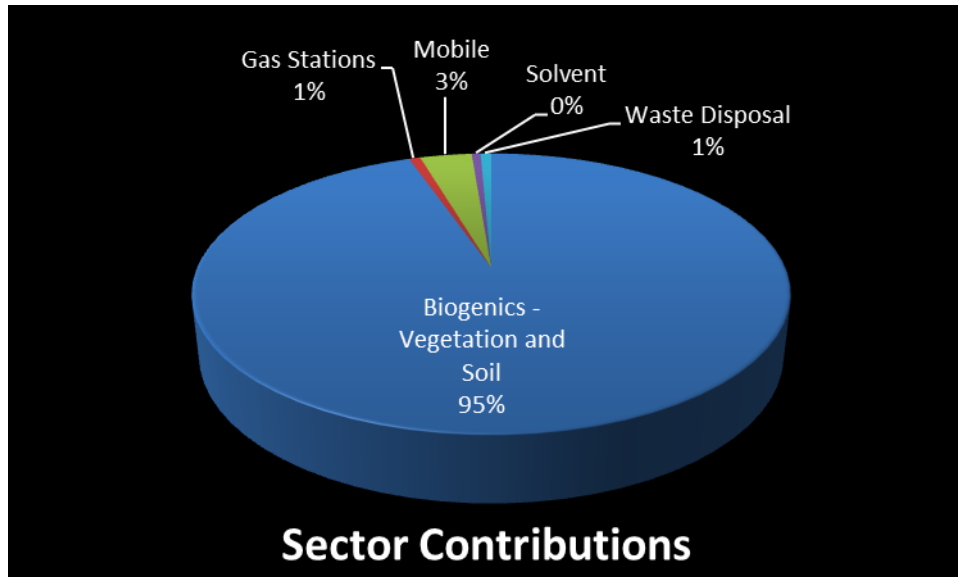




State	County	Sectors	VOC(tpy)
GA	Twiggs	Biogenics - Vegetation and Soil	13560.1
GA	Twiggs	Bulk Gasoline Terminals	0.0
GA	Twiggs	Commercial Cooking	0.1
GA	Twiggs	Fuel Comb - Comm/Institutional - Biomass	0.0
GA	Twiggs	Fuel Comb - Comm/Institutional - Coal	0.0
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Biomass	0.0
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Coal	0.0
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Other	0.0
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Oil	0.0
GA	Twiggs	Fuel Comb - Comm/Institutional - Oil	0.0
GA	Twiggs	Fuel Comb - Comm/Institutional - Other	0.0
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0.0
GA	Twiggs	Fuel Comb - Residential - Oil	0.0
GA	Twiggs	Fuel Comb - Comm/Institutional - Natural Gas	0.0
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0.1
GA	Twiggs	Fuel Comb - Residential - Natural Gas	0.2
GA	Twiggs	Fuel Comb - Residential - Other	0.2
GA	Twiggs	Fuel Comb - Residential - Wood	3.5
		Fuel Combustion	3.9
GA	Twiggs	Gas Stations	103.3
GA	Twiggs	Industrial Processes - Storage and Transfer	0.3
GA	Twiggs	Industrial Processes - NEC	35.5
		Industrial Processes	35.8

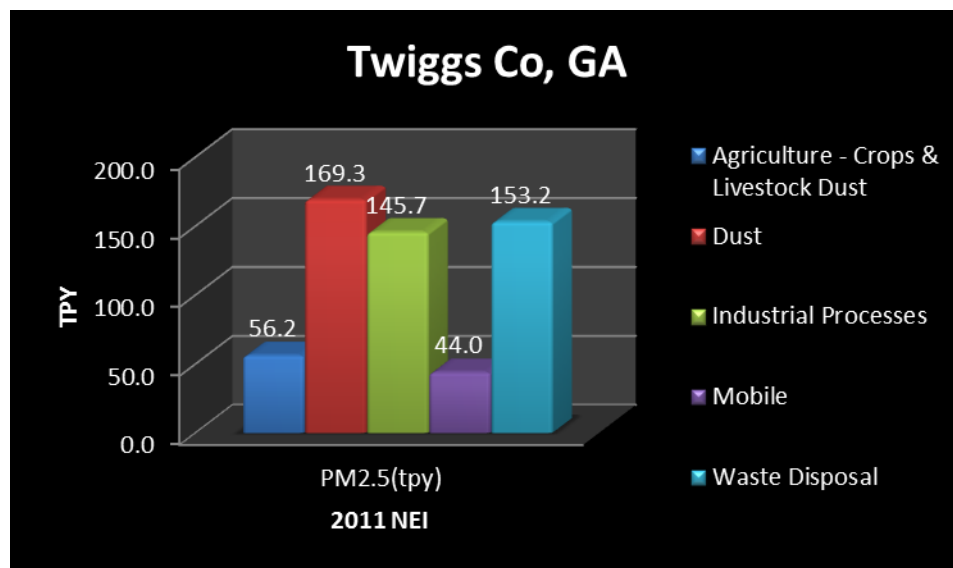
GA	Twiggs	Miscellaneous Non-Industrial NEC	4.5
GA	Twiggs	Mobile - Aircraft	0.0
GA	Twiggs	Mobile - Non-Road Equipment - Other	0.0
GA	Twiggs	Mobile - On-Road Diesel Light Duty Vehicles	0.6
GA	Twiggs	Mobile - Locomotives	2.0
GA	Twiggs	Mobile - Non-Road Equipment - Diesel	2.7
GA	Twiggs	Mobile - On-Road Gasoline Heavy Duty Vehicles	7.4
GA	Twiggs	Mobile - On-Road Diesel Heavy Duty Vehicles	113.9
GA	Twiggs	Mobile - On-Road Gasoline Light Duty Vehicles	140.9
GA	Twiggs	Mobile - Non-Road Equipment - Gasoline	211.3
		Mobile	478.9
GA	Twiggs	Solvent - Dry Cleaning	0.0
GA	Twiggs	Solvent - Graphic Arts	0.0
GA	Twiggs	Solvent - Degreasing	0.6
GA	Twiggs	Solvent - Industrial Surface Coating & Solvent Use	3.3
GA	Twiggs	Solvent - Non-Industrial Surface Coating	10.6
GA	Twiggs	Solvent - Consumer & Commercial Solvent Use	67.9
		Solvent	82.2
GA	Twiggs	Waste Disposal	99.1

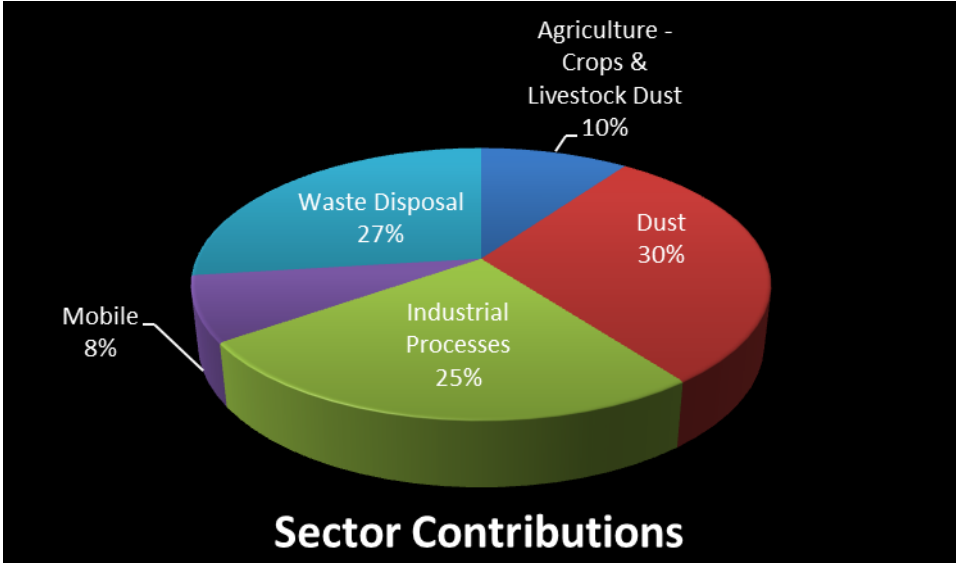




State	County	Sectors	PM2.5(tpy)
GA	Twiggs	Agriculture - Crops & Livestock Dust	56.2
GA	Twiggs	Commercial Cooking	0.8
GA	Twiggs	Dust - Construction Dust	3.6
GA	Twiggs	Dust - Paved Road Dust	28.2
GA	Twiggs	Dust - Unpaved Road Dust	137.4
		Dust	169.3
GA	Twiggs	Fuel Comb - Comm/Institutional - Biomass	0.0
GA	Twiggs	Fuel Comb - Comm/Institutional - Coal	0.0
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Biomass	0.0
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Coal	0.0
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0.0
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Other	0.0
GA	Twiggs	Fuel Comb - Comm/Institutional - Natural Gas	0.0
GA	Twiggs	Fuel Comb - Comm/Institutional - Other	0.0
GA	Twiggs	Fuel Comb - Comm/Institutional - Oil	0.0
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Oil	0.0
GA	Twiggs	Fuel Comb - Residential - Oil	0.0
GA	Twiggs	Fuel Comb - Residential - Natural Gas	0.0
GA	Twiggs	Fuel Comb - Residential - Other	0.0
GA	Twiggs	Fuel Comb - Industrial Boilers, ICEs - Natural Gas	0.1
GA	Twiggs	Fuel Comb - Residential - Wood	2.8
		Fuel Combustion	2.9
GA	Twiggs	Industrial Processes - Storage and Transfer	24.3
GA	Twiggs	Industrial Processes - NEC	24.8
GA	Twiggs	Industrial Processes - Mining	41.4

GA	Twiggs	Industrial Processes - NEC	55.2
		Industrial Processes	145.7
GA	Twiggs	Miscellaneous Non-Industrial NEC	0.1
GA	Twiggs	Mobile - Non-Road Equipment - Other	0.0
GA	Twiggs	Mobile - Aircraft	0.0
GA	Twiggs	Mobile - On-Road Gasoline Heavy Duty Vehicles	0.2
GA	Twiggs	Mobile - On-Road Diesel Light Duty Vehicles	0.3
GA	Twiggs	Mobile - Locomotives	1.2
GA	Twiggs	Mobile - Non-Road Equipment - Diesel	2.4
GA	Twiggs	Mobile - On-Road Gasoline Light Duty Vehicles	4.6
GA	Twiggs	Mobile - Non-Road Equipment - Gasoline	5.7
GA	Twiggs	Mobile - On-Road Diesel Heavy Duty Vehicles	29.5
		Mobile	44.0
GA	Twiggs	Waste Disposal	153.2





APPENDIX C

See attached document entitled:

“MIDDLE GEORGIA CLEAN AIR COALITION STRATEGY
2014/2015”

APPENDIX D

CITIZEN'S GUIDE TO REDUCING EMISSIONS

<p>Middle Georgia Clean Air Coalition Accomplishments</p>	
<p>Ozone Pollution And You</p>	<p>The Middle Georgia Clean Air Coalition</p>
<p>What Is Ozone? Ozone causes smog and is formed in our cities when pollution from cars, power plants and other sources reacts in the presence of sunlight. Ozone pollution is a serious problem in Middle Georgia during the summer months.</p> <p>Why Is Ozone Bad? Ozone can make people sick and harm their lungs. It aggravates asthma and causes other health problems. Ozone pollution harms our economy by making it harder for manufacturers and other businesses to move to Middle Georgia.</p> <p>What Can We Do? Local governments are working together as the Middle Georgia Clean Air Coalition to help clean up our air. This brochure tells you more about ozone pollution and our efforts to solve this problem. It also give you tips about how you can help.</p>	<p>Working Together, We Are Making A Difference!</p> <ul style="list-style-type: none"> • MGCCAC has secured \$4.5 million in federal funding for clean air projects. • School districts have retrofitted school buses to reduce diesel emissions. • Cities in Middle Georgia have passed seasonal ban burns and are encouraging people to not idle their vehicles. • Cities in Middle Georgia are switching their vehicles to run on electricity and clean-burning fuels. <p><i>From 2004 to 2009, we have <u>reduced</u> ozone levels in Middle Georgia.</i></p> <p style="text-align: center;"><small>Macon Ozone Monitor</small></p> <p style="text-align: center;"><small>3-Year Average</small></p> <p>For more information contact: The Middle Georgia Clean Air Coalition (478) 803-2596 Charise.Stephens@macon.ga.us</p>
<p>Ozone Pollution: Bad for Public Health and Bad for the Economy</p>	

Ozone Pollution: Bad for Our Health

- Ozone can irritate your respiratory system causing you to cough, feel an irritation in your throat and/or experience an uncomfortable sensation in your chest.
- Ozone can reduce lung function and make it more difficult for you to breathe.
- Ozone can aggravate asthma and can cause people with asthma to have more attacks that require a doctor's attention.
- Ozone is especially harmful to children who are active during summer months and to seniors facing other health challenges.

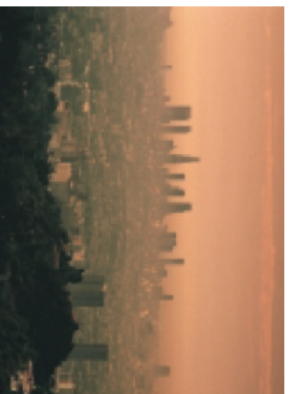


Staying Safe

The best way to avoid exposure to ozone is to avoid strenuous outdoor activity on days when ozone levels are high. To find out current ozone levels in our area go to:

www.epa.gov/airnow

Ozone Pollution: Bad for Workers



- In 2004, the U.S. Environmental Protection Agency determined that ozone levels in Middle Georgia were too high and violated federal air quality standards.
- Communities that have bad air pollution have a hard time attracting new businesses to their area.
- In areas with ozone pollution, workers tend to get sick more which reduces productivity.
- Existing businesses may have trouble expanding if air quality is too bad in the region.
- If we are to keep our business open and attract new businesses to Middle Georgia, we need to work together to reduce ozone pollution.

Ozone Pollution: Bad for Our Economy

- The Middle Georgia economy is driven by small businesses, manufacturing and Robins Air Force Base.
- As the national economy has slowed, it's critical that we do all that we can to help our local businesses succeed.
- To keep the Middle Georgia economy healthy, we need to reduce ozone pollution and clean up our air.

Ozone Pollution: How You Can Help

- At Your Home.**
 - Don't burn leaves or trash except when allowed in your area.
 - Use only low-VOC paints in your house.
 - Ask your utility to help you improve the energy efficiency of your home.
- In Your Car.**
 - If you are going to leave your car for more than 2 minutes, turn it off.
 - Plan your errands in advance so that you reduce the amount you have to drive.
 - Share rides to work. For more information on carpooling in Georgia, go to: www.cleanaircampaign.org