

Point Source Subtraction using MS Access
(shared by Lynn Deahl, KS February 2016)

Step 1. Create a new Access database.

Step 2. Import your state's 2014 inventory, or run a make-table query on your state's 2014 emissions inventory to generate a table with the (minimal) fields "Facility," "State_county_FIPS," "SCC," "Pollutant," and "2014_tons." SCCs should be formatted (short) text.

Step 3. Download and save EPA's table named "np_pt_reconciliation..." at the link labeled "Point to Nonpoint Crosswalk (Point Subtraction) for 2014 NEI (xlsx)" at <http://www.epa.gov/air-emissions-inventories/2014-national-emissions-inventory-nei-information>. Import into database.

Step 4. Create a new query using the two tables above, linking the two point SCC fields. From the 2014 inventory table select "Facility," "State_county_FIPS," "SCC," "Pollutant," and "2014_tons" fields; from the crosswalk table select "Point SCC Level One," "Point SCC Level Two," "Point SCC Level Three," "Point SCC Level Four," "Nonpoint SCC," and "Nonpoint SCC Short Name" fields.

Note running a query at this point should give a complete crosswalked point-to-nonpoint table you can use for finding and subtracting point emissions on a county basis for (again, query-based) selected nonpoint SCCs. You can reduce the size of the output table by filtering pollutants and/or tons, e.g., using the criterion for 2014_tons ">0." Note also the reason for including the facility names and SCC descriptions is twofold. First, the point SCC descriptors are required for the solvent and ICI tool input tables. Second, comparing the nonpoint SCC with the facility name can be useful to make sure the two are compatible. In other words, to quote an EPA instructor from many years ago: Quality assurance is never having to say you're sorry."

Solvent and ICI tools.

For the solvent and ICI tools, where point source subtractions require a properly formatted Excel spreadsheet populated with point SCCs, a couple more steps need to be done. First, remember emissions need to be converted to pounds (and no HAPs yet, either). Next, the following sets of point SCCs need to be pasted in (under "Criteria") as filters to get all the solvent- or ICI-related point source processes in the query for table data. You can use the following sets of SCCs to make this easier, but note there are too many codes for Access to process in a single query, so queries need to be done.

Solvent-related point SCCs - query 1 of 3 (source: EPA Solvent Tool v1.5, Point Emissions State Level table)

30101470 or 30101471 or 30101472 or 30102070 or 30102071 or 30102072 or 30102426 or 30400340
or 30400342 or 30400711 or 30400725 or 30503701 or 30510005 or
30701199 or 30900301 or 30900302 or 30901101 or 30901102 or 31303502 or 31306501 or 31306502
or 31401560 or 31401561 or 31401562 or 31401563 or 31401570

31612001 or 31612002 or 31612003 or 33000102 or 40100101 or 40100102 or 40100104 or 40100105
or 40100107 or 40100146 or 40100147 or 40100160 or 40100161 or
40100162 or 40100163 or 40100198 or 40100199 or 40100201 or 40100202 or 40100203 or 40100204
or 40100205 or 40100206 or 40100207 or 40100208 or 40100209

40100215 or 40100221 or 40100222 or 40100223 or 40100224 or 40100225 or 40100235 or 40100236
or 40100251 or 40100252 or 40100253 or 40100254 or 40100255 or

40100256 or 40100257 or 40100258 or 40100296 or 40100298 or 40100299 or 40100301 or 40100302
or 40100303 or 40100304 or 40100305 or 40100306 or 40100307

40100308 or 40100309 or 40100310 or 40100311 or 40100335 or 40100336 or 40100399 or 40100401
or 40100499 or 40188898 or 40200101 or 40200706 or 40200840 or
40200841 or 40200842 or 40200843 or 40200845 or 40200846 or 40200847 or 40200848 or 40200849
or 40200901 or 40200902 or 40200903 or 40200904 or 40200905

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or 40200914 or 40200915 or 40200916 or 40200917 or 40200918 or
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or 40200927 or 40200928 or 40200929 or 40200930 or 40200931

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or 40201122 or 40201197 or 40201199 or 40201301 or 40201303 or
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or 40201403 or 40201404 or 40201405 or 40201406 or 40201410

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or 40201438 or 40201499 or 40201501 or 40201502 or 40201503 or
40201504 or 40201505 or 40201531 or 40201599 or 40201601 or 40201602 or 40201603 or 40201604
or 40201605 or 40201606 or 40201607 or 40201608 or 40201609

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40201619 or 40201620 or 40201621 or 40201622 or 40201623 or 40201624 or 40201625 or 40201626
or 40201627 or 40201628 or 40201629 or 40201630 or 40201631 or
40201632 or 40201699 or 40201702 or 40201703 or 40201704 or 40201705 or 40201706 or 40201721
or 40201722 or 40201723 or 40201724 or 40201725 or 40201726

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or 40201736 or 40201737 or 40201738 or 40201739 or 40201799 or
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or 40201903 or 40201904 or 40201999 or 40202001 or 40202002

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or 40202037 or 40202038 or 40202039 or 40202099 or 40202101

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or 40202111 or 40202117 or 40202118 or 40202131 or 40202132 or
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or 40202206 or 40202207 or 40202208 or 40202209 or 40202210

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or 40202306 or 40202399 or 40202401 or 40202402 or 40202403

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or 40204022 or 40204023 or 40204121 or 40204130 or 40204140

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or 40204240 or 40204250 or 40204251 or 40204252 or 40204260 or
40204261 or 40204262 or 40204321 or 40204330 or 40204340 or 40204350 or 40204351 or 40204352
or 40204360 or 40204361 or 40204362 or 40204421 or 40204430

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or 40204455 or 40204460 or 40204461 or 40204462 or 40204470 or
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or 40204560 or 40204561 or 40204562 or 40204570 or 40204571

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or 40204661 or 40204662 or 40204670 or 40204671 or 40204672 or
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or 40204762 or 40204770 or 40204771 or 40204772 or 40206010

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or 40299998 or 40500101 or 40500201 or 40500202 or 40500203 or
40500215 or 40500301 or 40500302 or 40500303 or 40500304 or 40500305 or 40500306 or 40500307
or 40500314 or 40500315 or 40500318 or 40500319 or 40500401

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or 40500502 or 40500503 or 40500506 or 40500507 or 40500510 or
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or 40588801 or 40600259 or 41000101 or 41000115 or 41000125

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or 41000246 or 41000247 or 41000260 or 41000261 or 41000262 or
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or 49000301 or 49000302 or 49000303 or 49000304 or 49000399 or

49000401 or 49000402 or 49000403 or 49000404 or 49000405 or 49000499 or 49000501 or 49000502 or 49000503 or 49000504 or 49000599 or 49000601 or 49099998

ICI-related point SCCs - query 1 of 2 (source: EPA ICI Tool v1.4 state-level point source template)

10200101 or 10200104 or 10200107 or 10200117 or 10200201 or 10200202 or 10200203 or 10200204 or 10200205 or 10200206 or 10200210 or 10200212 or 10200213 or 10200217 or 10200218 or 10200219 or 10200221 or 10200222 or 10200223 or 10200224 or 10200225 or 10200226 or 10200229 or 10200401 or 10200402 or 10200403

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20300105 or 20300106 or 20300107 or 20300108 or 20300109 or 20300201 or 20300202 or 20300203 or 20300204 or 20300205 or 20300206 or 20300207 or 20300208 or 20300209 or 20300901 or 20300908 or 20300909 or 20301001 or 20301002 or 20301005 or 20301006 or 20301007 or 20400110 or 20400111 or 20400112 or 20400406

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or 49090011 or 49090012 or 49090013 or 49090021 or 49090022

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or 50290005 or 50290006 or 50290010 or 50390002 or 50390005 or
50390006 or 50390010