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October 1, 2010

EPA Docket Center, EPA West (Air Docket)
Attention: Docket ID No. EPA-HQ-OAR-2009-0491
U.S. Environmental Protection Agency, Mailcode: 2822T
1200 Pennsylvania Avenue, NW.
Washington, DC 20460

RE: Docket ID No. EPA-HQ-OAR-2009-0491; 75 Fed. Reg. 45,210 (Aug. 2, 2010) "Federal Implementation Plans to Reduce Interstate Transport of Fine Particulate Matter and Ozone; Proposed Rule"

Dear Sir:

On behalf of the Midwest Ozone Group (MOG), I am pleased to submit the attached comments on U.S. EPA's proposed ruled titled "Federal Implementation Plans to Reduce Interstate Transport of Fine Particulate Matter and Ozone; Proposed Rule" that was published in the Federal Register on August 2, 2010 (75 Fed. Reg. 45,210).

Very truly yours,

David M. Flannery

DMF/vlr

COMMENTS OF THE MIDWEST OZONE GROUP

on the

PROPOSED FEDERAL IMPLEMENTATION PLANS TO REDUCE INTERSTATE TRANSPORT OF FINE PARTICULATE MATTER AND OZONE (PROPOSED TRANSPORT RULE)

Docket ID No. EPA-HQ-OAR-2009-0491; 75 Fed. Reg. 45,210 (Aug. 2, 2010)

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October 1, 2010

I. INTRODUCTION.

The Midwest Ozone Group (MOG) is an ad hoc coalition of companies and organizations that are vitally interested in the U.S. Environmental Protection Agency's (EPA's) proposed Clean Air Transport Rule (CATR), published August 2, 2010 (75 Fed. Reg. 45,209). We are pleased to have the opportunity to comment on EPA's proposed rule.

MOG members own and operate numerous fossil fuel-fired steam electric units throughout the Midwest and Southeast that are capable of generating in excess of 95,000 MW of fossil-fueled electricity.

MOG recognizes that EPA has established a separate comment period for its "Notice of Data Availability Supporting Federal Implementation Plans to Reduce Interstate Transport of Fine Particulate Matter and Ozone; Notice of Data Availability (NODA) for the Proposed Transport Rule," published September 1, 2010 (75 Fed. Reg. 53,613). MOG is reviewing the NODA at this time and will offer comments by the established deadline.

II. GENERAL COMMENTS.

There are many legal and technical defects in the transport rule proposed by the agency, including, but not limited to, concerns over matters such as (1) the overly aggressive schedule for implementation of the CATR which is insufficient for states to develop and submit SIPs, (2) **t**he arbitrary and unreasonable nature of the 2012 and 2014 compliance deadlines**,** (3) unlawfully ignoring the primary role of states in developing state implementation plans (SIPs), (4) arbitrary rejection of the monitored-plus-modeled approach used to determine downwind nonattainment areas in the CAIR and the NOx SIP Call in favor of modeling only, (5) arbitrary classification of some states as "Group 1" states and other states as "Group 2" states, (6) unreasonably stringent variability limits and assurance provisions, and (7) numerous significant errors in allowance allocations. We defer to organizations such as the Utility Air Regulatory Group and others to address these and other concerns about the rule.

The principal focus of these comments is on air quality and modeling analyses that have been conducted on our behalf. These analyses demonstrate that the transport rule as currently proposed is not needed to address its stated air quality objectives. In these comments we will show that EPA has failed to account for the dramatic improvements that have occurred in air quality in recent years, and has failed to recognize how much air quality will improve in the future as the result of on-the-books [OTB] controls. Had EPA properly undertaken this analysis it would have learned that these existing controls applied to the areas we examined are more than sufficient not only to have eliminated "significant contribution," but also, with the exception of two monitors impacted by local sources, to have achieved attainment of both the ozone and PM national ambient air quality standards [NAAQS] that both this proposed rule and the original CAIR rule were intended to help achieve.

Specifically, the CATR fails to consider the extensive amounts of controls installed after 2005, resulting in a large and erroneous overestimation of emissions reductions necessary to eliminate any significant contribution to downwind nonattainment of many states. EPA was well-aware when it proposed the CATR using only a 2005 EGU emissions inventory that

significant new controls had been and were being installed on vast numbers of EGUs in response to the CAIR and other OTB requirements. Accordingly, MOG requests that EPA reanalyze the CATR using the most up to date source inventory and air quality data to confirm the results of its analyses.

III. SPECIFIC COMMENTS.

The remainder of these comments will offer more specific information regarding the legal and technical basis for our request that EPA not finalize the proposed transport rule.

1. EPA arbitrarily assumes that the CAIR is not in effect in its 2005 base case.

The CAIR took effect in 2005 (70 Fed. Reg. 25,162, Mary 12, 2005). Although the D.C. Circuit initially vacated the CAIR in July 2008, the D.C. Circuit ultimately held following petitions for rehearing in December 2008 that vacatur was not required. *North Carolina v. EPA*, 531 F.3d 896 (D.C. Cir.), *modified on rehearing*, 550 F.3d 1176 (D.C. Cir. 2008). Thus, the CAIR remains in effect today and is legally enforceable today. Nonetheless, in analyzing existing emissions, EPA arbitrarily and capriciously "assumes that the CAIR is not in effect." 75 Fed. Reg. 45,210, 45,233/3. Because EPA's assumption that the CAIR is not in effect lacks a "rational relationship to the real world," the Agency's proposed CATR cannot withstand judicial scrutiny. *See, e.g., Appalachian Power Co. v. EPA*, 249 F.3d 1032, 1053 (D.C. Cir. 2001) (citing *Chemical Mfrs. Ass'n v. EPA*, 28 F.3d 1259, 1265 (D.C. Cir.1994) ("While courts routinely defer to agency modeling of complex phenomena, model assumptions must have a 'rational relationship' to the real world").

EPA's decision to ignore the installation and operation of CAIR controls and emission reductions that have taken place since 2005 and that continue to take place is arbitrary and capricious. EPA attempts to explain its decision to ignore the CAIR first by arguing that it is premature to identify the states to be covered by the final CATR and second by arguing that the CAIR would not continue indefinitely. In EPA's own words:

> A key step in the process of developing a 110(a)(2)(D)(i)(I) rule involves analyzing existing (base case) emissions to determine which states significantly contribute to downwind nonattainment and maintenance areas. EPA cannot prejudge at this stage which states will be affected by the rule. For example, a state affected by CAIR may not be affected by the new rule and after the new rule goes into effect, the CAIR requirements will no longer apply. For a state covered by CAIR but not covered by the new rule, the CAIR requirements would not be replaced with new requirements, and therefore an increase in emissions relative to present levels could occur in that state. More fundamentally, the court has made clear that, due to legal flaws, the CAIR rule cannot remain in place and must be replaced. If EPA's base case analysis were to ignore this fact and assume that reductions from CAIR would continue indefinitely, areas that are in attainment solely due to controls required by CAIR would again face nonattainment problems because the existing protection from upwind pollution would not be replaced. For these reasons, EPA cannot assume in its base case analysis, that the reductions required by CAIR will continue to be achieved.

75 Fed. Reg. at 45,233-34 & 45,344/2; see also *id.* at 45,243-44, 45,301/1 & 45,352/2-3.

EPA's arguments in support of its assumption of excluding no CAIR controls lacks support in the real world. First, EPA says that the new transport region may be smaller than the CAIR region. EPA's attempted justification ignores the D.C. Circuit's mandate to include the "interfere with maintenance" prong of CAA § 110(a)(2)(D)(i)(I) in its analysis. *NC v. EPA*, 531 F.3d. 896, 908-11. As EPA itself has recognized, the result of this holding is for the number of covered states to increase, not decrease. Indeed, the proposed CATR covers thirty-one states plus the District of Columbia, whereas the CAIR covers twenty-eight states plus the District of Columbia. While EPA may still be considering whether certain states should be included in the CATR, EPA can and should analyze emissions reductions from those states whose status as a CAIR and CATR state is not uncertain.

Second, EPA says it cannot consistent with the D.C. Circuit's decision "assume that reductions from CAIR would continue indefinitely." The D.C. Circuit has allowed the CAIR to remain in place until it can be replaced. EPA fails to explain why its modeling does not assume the CAIR remains in place at least until the proposed CATR is finalized and takes effect, *i.e.*, compliance and reductions are required.

EPA's erroneous assumption of no CAIR controls is critical because if EPA had taken into account control technology installations and emissions reductions resulting from the CAIR, then EPA's modeling projections would have shown even greater air quality improvement and would have eliminated monitored nonattainment at all but two locations. Except for these two locations, which are dominated by emissions from local sources, all monitored nonattainment is eliminated. EPA therefore does not need to address upwind and downwind state linkages or significant contribution. Because EPA's assumption of no CAIR controls in its base case ignores the "significant emissions reductions" from the CAIR that have and continue to take place in the real world, EPA must revise its proposed CATR to include CAIR controls.

2. EPA arbitrarily removed the Clean Air Visibility Rule from its 2005 base case.

Although the Clean Air Visibility Rule (CAVR) was published July 6, 2005 (70 Fed. Reg. 39104), EPA removed the CAVR from its base case modeling for the proposed CATR. See TSD IPM EPA Base Case v.3.02 EISA at 13 available on the Internet at: http://www.epa.gov/airquality/transport/tech.html ("The Clean Air Visibility Rule (CAVR)…[was] removed from the baseline.…"). EPA seeks to justify the removal of the CAVR, summarily stating that: "In June 2005, EPA finalized guidelines for States to use in determining which facilities must install controls and the type of controls the facilities must use to satisfy Best Available Retrofit Technology (BART) requirements to address regional haze (also known as the CAVR). Because of uncertainty regarding the precise measures and requirements States will adopt, the specific CAVR power sector assumptions that were formerly modeled in IPM have been removed."). EPA's modeling analyses use assumptions because they lack "precise measures and requirements". While some states do not yet have approved regional haze state implementation plans (SIPs), some states do. For those states that have submitted regional haze SIPs, including regulations, EPA needs to include the measures and requirements those states have adopted. Significantly the D.C. Circuit in *NC v. EPA*, 550 F.3d 1176, 1178 (D.C. Cir. 2008) did not address the CAVR. In addition, EPA's previous regulatory

determination that the CAIR satisfies EGU BART requirements was upheld by the DC Circuit in *UARG v. EPA* (471 F. 3d 1333, D.C. Cir. 2006). EPA's failure to include these controls in its analysis is another illustration of arbitrary and capricious assumptions in the proposed CATR.

3. EPA failed to include other OTB controls in its future base case projections.

EPA needs to clarify its conflicting statements on the cut-off date used for emission reduction requirements included in its analysis. EPA's *Federal Register* notice states that its base case includes "emissions reductions associated with the implementation of all federal rules promulgated by December 2008," 75 Fed. Reg. 45,210, 45,233/3; however, EPA's PowerPoint overview presentation titled "Proposed Transport Rule," dated July 26, 2010, which is available on the Internet at http://www.epa.gov/airquality/transport/pdfs/TRPresentationfinal_7-26_webversion.pdf, states on slides 5, 17, and 18 that its analysis "does reflect other federal and state requirements to reduce emissions contributing to ozone and fine particle pollution that were in place as of February 2009."

EPA should include in its analysis the following rulemakings that were finalized after December 2008:

a) Final PSD/Title V Tailoring Rule (75 Fed. Reg. 31,514, June 3, 2010).

b) Non-EGU Point and Non-Point Stationary Sources

(1) Local control programs that may be necessary for areas to attain the annual PM2.5 NAAQS and the ozone NAAQS. See 75 Fed. Reg. at 45,241/1 ("The future base case scenarios represent predicted emissions in the absence of any further controls beyond those federal measures already promulgated….For nonEGU point and nonpoint stationary sources, any local control programs that may be necessary for areas to attain the annual PM2.5 NAAQS and the ozone NAAQS are not included in the future base case projections.").

(2) NESHAPs: See **http://www.epa.gov/ttn/oarpg/t3pfpr.html** (last visited September 28, 2010).

(a) Reciprocating Internal Combustion Engines: Final NESHAPs - Spark Ignition Engines (75 Fed. Reg. 51,570, August 20, 2010). EPA states that this rule will reduce VOC and NOx emissions. *Id.* at 51,572/3.

(b) Portland Cement Final Rules: NSPS and NESHAPs (Signed August 9, 2010). According to EPA's Fact Sheet, this rule will reduce particle-forming pollutants from new and existing Portland cement kilns and limit NOx, SO2, and PM emissions from new kilns.

(c) Prepared Feeds Manufacturing Facilities: NESHAPs: Area Source Standards (75 Fed. Reg. 522, January 5, 2010), as corrected, 75

Fed. Reg. 41,991, July 20, 2010). The January 5, 2010 rule requires reductions in PM emissions. Id. at 524/1.

(d) Reciprocating Internal Combustion Engines: NESHAPs - Compression Ignition Engines: Final Rule (75 Fed. Reg. 9648, March 3, 2010). EPA states that this rule has co-benefits of reducing PM2.5 and SO2 emissions. *Id.* at 9669-71

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(e) Chemical Preparations Facilities: NESHAPs: Final Area Source Standards (74 Fed. Reg. 69,194, December 30, 2009). EPA states that the PM reductions from this rule include PM2.5. *Id.* at 19,302/3.

(f) Prepared Feeds Manufacturing Facilities: NESHAPs: Final Area Source Standards (75 Fed. Reg. 522, January 5, 2010), as corrected, 75 Fed. Reg. 41,991, July 20, 2010). The January 5, 2010 rule requires reductions in PM emissions. 75 Fed. Reg. at 524/1.). .

(g) Paints and Allied Products Manufacturing: NESHAPs: Final Area Source Standards (75 Fed. Reg. 31,317, June 3, 2010; 75 Fed. Reg. 10184, March 5, 2010; 74 Fed. Reg. 63,504, December 3, 2009). The December 3, 2009 rule establishes emission standards for volatile HAPs and particulate HAPs. *Id.* at 63504/1.

(h) Asphalt Processing and Asphalt Roofing Manufacturing: NESHAPs: Area Source Standards (74 Fed. Reg. 63, 236, December 2, 2009), as corrected, 75 Fed. Reg. 12,988, March 18, 2010). The December 2, 2009 rule includes PM emissions standards. See 74 Fed. Reg. at 63248/1.

(i) Final Air Toxics Standards for Area Sources in the Chemical Manufacturing Industry (74 Fed. Reg. 56008, October 29, 2009). This rule will achieve reductions of PM emissions. *Id.* at 56,018/3.

(j) Aluminum, Copper and Other Nonferrous Foundries: NESHAPs: Area Source Standards, and Revision to Source Category List for Air Toxics: Final Rule (74 Fed. Reg. 30,366, June 25, 2009, as corrected, 74 Fed. Reg. 46,493, September 10, 2009). The June 25, 2009 rule imposes PM control requirements. 74 Fed. Reg. at 30,369.

(k) NESHAPs From Petroleum Refineries (75 Fed. Reg. 37,730, June 30, 2010 (correction); 74 Fed. Reg. 55,670, October 28, 2009 (heat exchangers); signed January 16, 2009). The October 28, 2009 rule adds maximum achievable control technology standards (MACT)

for heat exchange systems. EPA states that: in addition to reducing HAP emissions, "The final MACT requirements for heat exchange systems will…also reduce VOC emissions by 4,100 tons/yr. Reducing VOC emissions may provide the added benefit of reducing ambient concentrations of ozone and may reduce fine particulate matter." *Id.* at 55,652/2.

(3) NSPS

(a) NSPS Review for Nonmetallic Mineral Processing Plants; and Amendment to UUU Applicability (74 Fed. Reg. 19,294; April 28, 2009). EPA states that this rule results in reduction of emissions of PM, including PM2.5. *Id.* at 19,307/3.

(b) NSPS for Coal Preparation and Processing Plants (74 Fed. Reg. 51,950; October 8, 2009). This rule includes emission limits for PM, SO2, and NOx for thermal dryers at coal preparation plants and processing plants. *Id.*

(c) Standards of Performance for New Stationary Sources and Emission Guidelines for Existing Sources: Hospital/Medical/Infectious Waste Incinerators (74 Fed. Reg. 51,368; October 6, 2009). EPA states that this rule results in reductions of PM and dioxins and furans which are considered VOCs.

c) Mobile Sources

(1) Category 3 (C3) commercial marine vessels. See Fed. Reg. at 45,244/1-2 ("Nonroad mobile emissions were created only with NMIM using a consistent approach as was used for 2005, but emissions were calculated using NMIM future-year equipment population estimates and control programs for 2012 and 2014. Emissions from 2012 and 2015 were used for locomotives and category 1 and 2 (C1 and C2) commercial marine vessels, based on emissions published in OTAQ's Locomotive Marine Rule, Regulatory Impact Assessment, Chapter 3. For category 3 (C3) commercial marine vessels, a coordination strategy of emissions reductions is ongoing that includes NOx, VOC, and CO reductions for new C3 engines as early as 2011 and fuel sulfur limits that could go into affect as early as 2012. However, given the uncertainty about the timing for parts of these emissions reductions and the fact that the 2012 modeling was conducted well in advance of the December 2009 publication of the rule, we have not used the controlled emissions in modeling supporting this proposal.").

(2) Final federal rulemakings after December 2008: See http://www.epa.gov/ttn/oarpg/t2pfpr.html.

(a) Light-Duty Vehicle Greenhouse Gas Emission Standards and Corporate Average Fuel Economy Standards; Final Rule (75 Fed. Reg. 25,523, May 7, 2010). EPA itself recognizes that this final rule will provide co-benefits. *Id.* at 25,524.

(b) Control of Emissions From New Marine Compression-Ignition Engines at or Above 30 Liters per Cylinder (75 Fed. Reg. 22,954, April 30, 2010). EPA states this rule will reduce emissions of NOx, PM2.5, and SO2 and further states that "While a share of these emissions occur at sea, [EPA's] air quality modeling results…show they have a significant impact on ambient air quality far inland." *Id.* at 22,900/3. According to EPA, "in 2009, emissions from Category 3 engines account for about 10 percent of mobile source emissions of…NOx, about 24 percent of mobile source diesel PM2.5 emissions…, and about 80 percent of mobile source emissions of…SOx. As we look into the future, however, emissions from Category 3 engines are expected to become an even more dominant inventory source. This will be due to both emission reductions from other mobile sources as new emission controls go into effect and to the anticipated activity growth for ocean transportation. Without new controls, we anticipate the contribution of Category 3 engines to national emission inventories to increase to about 24 percent, 34 percent, and 93 percent of mobile source NOx, PM2.5, and SOx emissions, respectively in 2020, growing to 40 percent, 48 percent, and 95 percent respectively in 2030." *Id.* at 22,897/2-3.

(c) Regulation of Fuels and Fuel Additives: Changes to Renewable Fuel Standard Program (75 Fed. Reg. 14819, March 26, 2010). EPA states that as a result of this rule: "Ambient PM2.5 is likely to increase in asras associated with biofuel production and transport and decrease in other areas; for ozone, many areas will experience increases and a few areas will see decreases." Id. at 14,799/2.

(d) Average Fuel Economy Standards Passenger Cars and Light Trucks Model Year 2011 (74 Fed. Reg. 14,196, March 30, 2009). This will also provide co-benefits. *Id.* at 14,203.

d) Mercury controls See Emissions Inventories TSD at 12 ("[EPA] did not include Hg in our future year modeling.…").

e) Aerosol Coatings: National Volatile Organic Compound Emission Standards: Final Amendments (74 Fed. Reg. 29,595, June 23, 2009). See http://www.epa.gov/ttn/oarpg/t1pfpr.html (last visited September 28, 2010). This rule reduces VOC emissions contributing to ozone formation. Id. at 29,596/3.

4. The most recent air quality data indicate substantially fewer nonattainment and maintenance areas than EPA's data.

At MOG's request ENVIRON examined EPA's list of nonattainment and maintenance monitoring sites for 2012 as defined in the proposed CATR to determine which of these sites were actually already in attainment of the NAAQS based on observations from 2006-2009. These results are set forth in an attachment to these comments. Sites already in attainment based on these most recent data represent locations where transport from upwind sources is not contributing to nonattainment or maintenance problems. In performing this comparison, ENVIRON used design values [DVs] calculated from annual summary statistics (e.g., annual fourth highest daily maximum 8-hour average ozone concentration) for 2006-2009. In some cases, insufficient data were available from which to compute the annual summary statistic. In these cases, ENVIRON used procedures for filling in missing data similar to those used by EPA for computing air quality trends. This is a conservative approach within the context of this analysis as DVs based on filled-in data may suggest a monitoring site is a nonattainment or maintenance site whereas MATS does not contain a DV for the monitoring site.

Total counts of nonattainment and maintenance monitoring sites based on EPA's 2012 projections in the proposed CATR versus nonattainment and maintenance sites determined from 2006-2009 data are provided in Table 1 of the attachment. These results show that over 80% of the sites predicted by EPA to be in nonattainment of the ozone or PM2.5 standards in 2012 are already in attainment as of 2009 based on an average of the 2006-2008 and 2007-2009 DVs. Furthermore, over 80% of the PM2.5 2012 maintenance sites and 1/3 of the ozone 2012 maintenance sites are no longer maintenance sites as of 2009. These results indicate that air quality has improved more rapidly than predicted by EPA's proposed CATR modeling.

5. Modeling of existing CAIR requirements and other OTB controls indicate no need for the nature and extent of controls as proposed in the CATR.

In support of its position that EPA's CATR analysis is flawed because it excludes benefits of controls installed on the EGU fleet since 2005, MOG and other entities have sponsored an analysis of the impact on predicted ozone and PM2.5 nonattainment resulting from emissions reductions that have occurred since 2005 as a result of the installation of additional controls, including controls that resulted from the CAIR. The studies, also included in the attachment to these comments, were performed using the CAMx model by Alpine Geophysics and included projections of predicted 2014 and 2018 air quality. They include modeling scenarios called "2014 Business As Usual (BAU)" and "2018 BAU." A disc with the input and output files related to these studies is being submitted under separate cover.

The project also involved use of updated inputs to the CAMx model, including a projected 2014 EGU inventory compiled by James Marchetti, J. Edward Cichanowicz and Michael Hein, and a projected non-EGU inventory compiled by Alpine Geophysics.

Alpine Geophysics conducted photochemical modeling analyses, including the EPA attainment test, for three key years: 2008, 2014, and 2018. The modeling for year 2008 served the important function of providing a recent 'typical baseline' year for the purpose of calculating relative reduction factors (RRFs). Most importantly, moving to 2008 took direct advantage of recent reductions in 8-hr design values measured across the modeling region. Results of this work clarify when the effects of BAU state and federal control programs would begin to significantly lower the 8-hr ozone and annual and 24-hr $PM_{2.5}$ design values at key monitors in the modeling domain.

The SO2 and NOx emission forecast for this analysis assumed compliance with the CAIR, as well as utility agreements with regard to consent decrees and state programs. The future regional electrical generation by fuel type and regional fuel forecasts that were incorporated into the model were from the Energy Information's Administration's Annual Energy Outlook 2009 (AEO2009) - Updated Reference Case.

Using EPA attainment test software and algorithms with the output from the BAU CAMx simulations for 2008, 2014 and 2018, Alpine Geophysics concludes that the ozone objectives of the proposed CATR can be achieved no later than 2014 within the 12 km modeling domain with no new controls beyond the existing CAIR and other BAU requirements.

Alpine Geophysics also concludes that the annual $PM_{2.5}$ objectives of the proposed transport rule can be achieved no later than 2014 within the 12 km modeling domain with no new controls beyond the existing CAIR and other BAU requirements, with the possible exception of additional local controls at the Allegheny County, PA location, discussed later in these comments.

Finally, Alpine Geophysics concludes that the 24-hr $PM_{2.5}$ objectives of the proposed CATR can be achieved within the 12 km modeling domain no later than 2014 with no new controls beyond the existing CAIR and other BAU requirements, with the possible exception of additional local controls at the Allegheny County, PA and Brooke County, WV locations, which are discussed later in these comments.

Accordingly, the additional stringent emission reductions EPA is proposing in the CATR are not needed to achieve the air quality objective EPA is targeting - attainment of the subject NAAQS requirements.

6. MOG recommends using 2018 as the year for eliminating significant contribution.

EPA requests comment on which year within 2012 to 2018 it should select for further analysis. See 75 Fed. Reg. at 45,286/1-2 ("EPA may select a year between 2012 and 2018 that is as expeditious as practicable as the appropriate year for eliminating significant contribution. Because, as explained later, further analysis is needed to quantify any additional reductions necessary to eliminate significant contribution to Houston, EPA requests comment on which year we should select within this 2012 to 2018 time period for this analysis."). MOG urges EPA to use 2018 as the year for determining significant contribution.

With respect to the ozone NAAQS, the year 2018 is the deadline for emissions reductions for the Houston severe ozone NAA, and Houston is an area that EPA has identified as a residual nonattainment area for ozone in 2014 even with the CATR. See 75 Fed. Reg. 45,210, 45,285-86. The year 2018 is also the deadline for emissions reductions for ozone NAAs classified as severe and above. See *id.* at 45,285. Further, if an area comes close to attainment, EPA may grant states two 1-year attainment date extensions provided certain criteria are met. See *id.* at 45,285/3. BAU control strategies will help improve air quality in areas with attainment deadlines after 2010. See *id.* at 45,301/1.

As for the PM2.5 NAAQS, designations for the 2006 24-hour PM2.5 NAAQS had not even been promulgated at the time of the D.C. Circuit's decision. Designations for the 2006 24-hour PM2.5 NAAQS were not published until November 13, 2009 (74 Fed. Reg. 58,688) and were not effective until December 14, 2009. The presumptive attainment deadline for nonattainment areas for the 2006 24-hour PM2.5 NAAQS is December 14, 2009, with a possible extension to December 14, 2019. All of the reasons that EPA relies upon for examining beyond 2012 to determine significant contribution (e.g., "unique situation created by the Court's remand of CAIR," missed deadline for transport SIPs, bump-up provisions, two 1-year extensions of attainment date provisions, long history of nonattainment areas failing to meet their nonattainment deadlines, and maintenance requirements) are equally applicable to looking beyond 2014 and to 2018 to determine source-receptor relationships and significant contribution. See Fed. Reg. at 45,285/2-3. Moreover, using 2018 for 24-hour PM2.5 does not rely on the two, one-year extensions beyond the additional ten years after the effective designations date allowed in the CAA.

Using 2018 would harmonize implementation of the ozone and PM2.5 NAAQS programs while avoiding an arbitrary use of different years. Using 2018 would be consistent with EPA's interpretation that reductions must occur in the year immediately preceding an area's attainment date.

In any case, using the year 2018 does not create public health concerns because the most recent modeling data shows that, except for two areas influenced by local sources, all areas achieve attainment in 2014. Therefore, using 2018 is reasonable.

Further, using 2018 as the year for determining significant contribution gives states time to develop quality SIPs, submit them to EPA, and receive EPA approval. This approach is consistent with the provisions of the Clean Air Act (CAA) that states have the "primary responsibility" for air quality within the state. See CAA § 101(a)(3) & § 107(a). EPA's approach of proposing federal implementation plans puts the "cart before the horse". The CAA contemplates that EPA may promulgate a FIP within two years after the EPA Administrator makes a finding of failure to submit or incompleteness or disapproves a SIP.

Finally, 2018 is the appropriate year to use for determining maintenance of the NAAQS. See 75 Fed. Reg. 45,210, 45,285/3 ("Even if a downwind area attains on time, further upwind reductions may be important to assure continued maintenance of the standard."). As discussed above, these modeling results, which assume that CAIR requirements remain in place, demonstrate that with no new controls beyond CAIR and BAU controls, all ozone nonattainment areas, all annual PM2.5 nonattainment areas except Allegheny County, PA, and all 24-hour

PM2.5 nonattainment areas except Allegheny County, PA and Brooke County, WV, will achieve attainment no later than 2014.

Clearly, the additional stringent reductions EPA is proposing are not needed to achieve the air quality objective EPA is targeting – attainment and maintenance of the applicable ozone and PM 2.5 NAAQS. MOG urges EPA to reanalyze the CATR using 2018 as the year for projecting nonattainment and maintenance areas.

7. Residual nonattainment in Allegheny County, PA and Brooke, WV cannot support a new or revised transport rule.

Only Allegheny PA and Brooke, WV remain in nonattainment with the 24-hr PM NAAQS in 2014 and only the Allegheny monitor is in nonattainment with the annual PM NAAQS in 2014. The fact that nonattainment has been eliminated at all other monitors in the 12 km domain examined by Alpine Geophysics is enough to defeat the need for a 32 state transport rule. An examination of the details of the two monitors also fails to justify the implementation of the proposed transport rule.

It is apparent that the Liberty PM monitor is the focus of the Allegheny County nonattainment and it is equally apparent that that monitor is not a regionally-representative monitor. It appears that a combination of local sources and topographically-influenced meteorology is the cause of the concern. Particularly telling are the timeline graphs in Figures 13-1 and 13-2 on pages 71 and 72 of the Allegheny County SIP, in which the Liberty design values have been consistently, year after year, 3 to 6 ug/m3 greater than those at the surrounding sites. Table 13-1 on page 81 shows that this behavior continued into 2009.

EPA itself has recognized concerns about this monitor. For purposes of PM2.5 transport, the residual non-attainment in Allegheny County, PA is irrelevant because the air quality problem is local. See 75 Fed. Reg. at 45281/1 ("the monitor in Allegheny County that remains in nonattainment is in an area where the air quality problem is primarily local"). Allegheny County's air quality problems are due to emissions from a coke production facility and other nearby sources. See *id*. 45281/3 ("For this receptor monitor, EPA considered the local circumstances in the Liberty-Clairton area in Allegheny County that were leading to continued nonattainment.

It is well-established that the Liberty-Clairton area is significantly affected by local emissions from a sizable coke production facility and other nearby sources. See http://www.epa.gov/pmdesignations/2006standards/final/TSD/tsd_4.0_4.3_4.3.3_r03_PA_2.pdf. High concentrations of organic carbon indicate the unique local problem for this location."). Allegheny PM2.5 design values are very strongly dependent on organic carbonaceous matter (OMC) concentrations -- about 45% of the 2008 annual DV and 66% of the 2008 daily DV, and 51% of the 2018 annual DV and 70% of the 2018 daily DV are due to OMC. No other site comes close to these proportions of OMC making the Allegheny results unique. To show how important OMC is, if the Allegheny OMC values were replaced by the second highest OMC values in that we determined for any other monitor, Allegheny would be in both annual and daily attainment in 2018. If Allegheny had OMC levels at the average of all sites, it would be in attainment as early as 2008.

With regard to the Brooke County WV monitor, the residual non-attainment is related only to 24-hr PM. The Brooke County monitor presents a number of anomalies. For example, on the PM-2.5 Technical Support Document, CES values for Jefferson County were 100, for Hancock were 60 and for Brooke were 19. It is puzzling that the Brooke monitor would be so much slower to show air quality improvement compared with its neighbors when it theoretically should have been much closer to attainment in the first instance. In addition, it should be noted that the monitor sits on the border of Brooke and Hancock counties and should therefore be representative of Hancock County; however, there is also a Hancock monitor in the study and that is modeled to show attainment.

In Brooke County, all pollutants are dominated by a carbon manufacturing facility, an iron and steel mill and a ferroalloy manufacturing facility about 2 miles from the violating monitor. The location of the sampler relative to these local sources is an important consideration. The FRM sampler characterizes the impacts of that source. The monitor is therefore not likely to be representative of any larger geographic area.

Accordingly, while Allegheny PA and Brooke WV show residual PM nonattainment, it is apparent that such an isolated circumstance cannot be used to sustain the proposed 32 state transport rule particularly in absence of more widespread nonattainment.

8. Reliance on existing controls is not inconsistent with the D.C. Circuit's decision in *NC v. EPA*.

The continuation of CAIR controls is not inconsistent with the D.C. Circuit's decision in *NC v. EPA*. Indeed, the D.C. Circuit expressly allowed for the continuation of CAIR controls pending EPA's replacement of the CAIR. *NC v. EPA*, 550 F.3d 1176, 1178 (D.C. Cir. 2008) ("Here, we are convinced that, notwithstanding the relative flaws of CAIR, allowing CAIR to remain in effect until it is replaced by a rule consistent with our opinion would at least temporarily preserve the environmental values covered by CAIR. Accordingly, a remand without vacatur is appropriate in this case."). Further, it is undisputed that the 2010 attainment date that the D.C. Circuit focused on in its 2008 decisions has passed, and recent air quality data demonstrates that the transport issue that the CAIR sought to address is fast becoming moot. By no later than 2014, all ozone nonattainment areas achieve attainment, all annual PM2.5 nonattainment areas except Allegheny County, PA, achieve attainment, and all 24-hour PM2.5 nonattainment areas except Allegheny County, PA, and Brooke County, WV achieve attainment, and by 2018, these areas remain in attainment. Plainly, the additional stringent emission reductions EPA is proposing are not needed to achieve attainment and maintenance of the applicable NAAQS. Because the nonattainment issue for Allegheny County, PA and Brooke County, WV is local and not transport-related, and because all other areas achieve attainment no later than 2014, the underlying rationale for a transport rule intended to prohibit significant contribution to nonattainment is soon to be a largely academic issue that no longer needs to be addressed for the 1997 ozone and PM NAAQS or the 2006 24-hour PM2.5 NAAQS.

IV. CONCLUSION.

For all of the aforementioned reasons, MOG urges EPA not to finalize the proposed CATR rule and to reexamine the need for a new transport rule based on sound science.

Attainment Modeling and Design Value Analyses for 8-hr Ozone and $PM_{2.5}$ Attainment Demonstrations in the Midwestern and Northeastern United States

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28 September 2010

ALPINE GEOPHYSICS

ENVIRON

List of Appendices

Appendix A MATS 2.3.1 Output Files; 8-hr Ozone

Appendix B MATS 2.3.1 Output Files; Annual PM2.5

Appendix C MATS 2.3.1 Output Files; 24-hr PM2.5

Appendix D MATS 2.3.1 Configuration Files

Appendix E State-Sector-Scenario Emission Inventory Summaries

Appendix F Data Supporting Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

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Background

On August 2, 2010, the U.S. Environmental Protection Agency (EPA) issued *Federal Implementation Plans To Reduce Interstate Transport of Fine Particulate Matter and Ozone; Proposed Rule* (75 FR 45210; PTR) stating that:

> *EPA is proposing to limit the interstate transport of emissions of nitrogen oxides (NOX) and sulfur dioxide (SO2). In this action, EPA is proposing to both identify and limit emissions within 32 states in the eastern United States that affect the ability of downwind states to attain and maintain compliance with the 1997 and 2006 fine particulate matter (PM2.5) national ambient air quality standards (NAAQS) and the 1997 ozone NAAQS.*

In support of this proposal, base year 2005 and future year emission inventories from multiple source categories were developed and processed by EPA with air quality models to determine relative contributions to downwind nonattainment and to simulate changes in air quality as the result of control strategy implementation.

The PTR further identifies links between specific upwind states and downwind ozone or $PM_{2.5}$ nonattainment areas based on photochemical modeling of the 2005 base year and two future years: 2012 and 2014.

Two categories of ozone and $PM_{2.5}$ monitoring sites were then identified based on the predicted future year design values (DVs) determined from MATS in the above manner:

1. "Nonattainment" sites are those monitoring sites for which the average of the three DVs is projected to exceed the NAAQS in 2012,

2. "Maintenance" sites are those monitoring sites that are not nonattainment sites as in (1) above but the maximum of the three DVs is projected to exceed the NAAQS in 2012.

Using source apportionment modeling, EPA determined which states are predicted to contribute an amount in excess of 1% of the level of the NAAQS to ozone or $PM_{2.5}$ at each downwind nonattainment or maintenance monitoring site.

This document describes independent analyses which utilize a more recent base year, 2008, and alternate business as usual future year scenario for 2014 and 2018 to develop a residual ozone and particulate matter nonattainment picture for a 12km domain over the Midwestern and northeastern United States. It further describes a process where we examined EPA's list of nonattainment and maintenance monitoring sites for 2012 as defined in the PTR to determine which of these sites were actually already in attainment of the NAAQS based on observations from 2006-2009.

The first objective of this work was to perform technically credible photochemical modeling analyses, including the EPA attainment test, for three key years: 2008, 2014, and 2018. Modeling for year 2008 served the important function of providing a recent 'typical baseline' year for the purpose of calculating relative reduction factors (RRFs).

Most importantly, moving to 2008 takes direct advantage of recent reductions in design value data measured across the modeling region and recent emissions inventory data made available by EPA and other agencies. Results of this work clarify when the effects of 'Business As Usual" (BAU) state and federal control programs would begin to significantly lower the 8-hr ozone and annual and daily PM design values at key monitors in the modeling domain.

The second objective of this study was to use these recent DV data to determine which of EPA's identified nonattainment or maintenance sites were actually already in attainment of the NAAQS based on observations from 2006-2009.

A brief description of the technical work and results of this analysis is presented below.

Attainment Modeling Analysis

Emissions Model Set Up and Inventory Development

The purpose of this task was to assemble suitable emissions modeling data bases for (a) 2008 base year, (b) 2014 baseline (BAU), and (c) 2018 baseline (BAU). These data bases (both model codes and input/output files) were used to support base case model performance evaluation (MPE) and future year 8-hr ozone and $PM_{2.5}$ attainment modeling.

The project team set up the SMOKE emissions modeling system over a 36/12km modeling domain for the base year ozone and $PM_{2.5}$ MPE exercises and the future year ozone and $PM_{2.5}$ baseline simulations. This domain is represented in Figure 1. As part of this task we selected a 2008 annual modeling period for the analysis.

The following modeling platform was utilized in this simulation:

- Emissions Modeling System:
  - 2008 Base Year Emissions Inventory
  - 2014/2018 "Business as Usual" Emission Projections
  - SMOKE (v2.4)

- Modeling Episodes:
  - 15 December 2007 to 31 December 2008

- Modeling Domains
  - 8-hr Ozone 36/12 km
  - $PM_{2.5}$ 36/12 km

The project team constructed the summer (8-hr ozone) and annual ($PM_{2.5}$) 2008 base year MPE inventories and future year 2014 and 2018 inventories using the most recent EPA 2005v4 data sets as the foundation.

The base year inventory contains 2008 Clean Air Markets Division (CAMD) CEM data for EGU sources reporting under various programs and accounting for controls installed through 2008 as well as 2008 year specific VMT (run through the SMOKE/MOBILE6 tool to generate onroad emissions), wild and prescribed fire emissions (from EPA's SMART Fire contract), and biogenic emissions using a most recent version (v2.03a) of the MEGAN biogenics emissions model.

The future year inventories include all pertinent growth and control measures 'on the books' up to that year as provided by EPA's PTR data distribution as well as additional consent decree and local and state program data available at the time of our modeling. Additional growth and control data obtained by EPA were applied to EPA's 2005v4 to generate 2008 emissions and fill in the 2008 inventory in whole. In cases where growth and control data were not available, interpolations of EPA 2005 and 2010 inventories were used for 2008 emissions.

To determine future SO_2 and NO_x emissions for EGUs, we utilized output from the Emission-Economic Modeling System (EEMS), which is a modeling system that has been used by individual utilities and organizations to evaluate the economic and compliance implications of environmental policies and rules. EEMS is a computer model that was developed in 1997 by Jim Marchetti, Ed Cichanowicz and Mike Hein to perform specific emission and economic analyses of environmental policies and regulations impacting the electric utility and coal industries. In general, EEMS uses a set of decision rules to identify a combination of control options (technology versus allowances) that approximates the least cost solution for a given utility system under a specific regulatory (e.g., trading) regime.

The SO_2 and NO_x emission forecast for this analysis ("Business As Usual") assumed compliance with the Clean Air Interstate Rule, as well as utility agreements with regard to Consent Decrees and State programs. The future regional electrical generation by fuel type and regional fuel forecasts that were incorporated into the model were from the Energy Information's Administration's Annual Energy Outlook 2009 (AEO2009) - Updated Reference Case[1]. An annual summary of PTR State level NO_x and SO_2 emissions from this run is presented in Table 1 below.

[1] http://www.eia.doe.gov/oiaf/aeo/supplement/stimulus/regionalarra.html

Table 1. Annual EGU Emissions (tpy) of SO_2 and NO_x from BAU simulation for PTR states.

	Annual EGU Emissions (tpy)				
	SO_2			NO_x	
State	**2014**	**2018**		**2014**	**2018**
AL	198,503	129,544		68,486	69,564
AR	40,319	44,622		31,982	34,209
CT	3,723	3,518		3,398	3,262
DC	1	1		9	10
DE	5,489	5,458		3,244	3,241
FL	185,863	190,041		82,250	67,611
GA	113,236	90,249		41,131	42,852
IA	84,955	86,859		40,298	32,950
IL	161,663	148,810		51,988	48,042
IN	344,807	330,548		113,621	99,325
KS	31,447	32,199		35,633	28,865
KY	243,089	213,961		86,767	72,843
LA	61,802	67,761		34,770	36,449
MA	15,748	15,713		7,638	7,382
MD	58,594	57,919		21,092	20,944
MI	186,994	191,382		69,424	64,970
MN	31,861	33,237		30,899	32,328
MO	196,870	149,306		53,687	48,832
MS	50,135	35,766		28,043	12,204
NC	104,792	73,293		55,818	50,409
NE	63,852	66,460		30,304	31,524
NJ	18,481	18,249		11,486	11,361
NY	52,683	49,064		32,925	32,884
OH	394,031	273,537		109,634	93,082
OK	98,481	78,776		71,617	73,876
PA	296,005	294,031		139,132	96,611
SC	110,019	120,060		35,231	29,883
TN	101,932	109,090		31,091	33,244
TX	415,946	425,499		141,485	124,635
VA	94,057	99,566		41,833	43,822
WI	79,744	79,974		34,886	30,206
WV	163,763	167,034		62,724	64,081

The following air quality model-ready inventories were produced for CAMx:

- 8-hr Ozone 36/12 km:
  - Summer 2008 MPE Base Year
  - Summer 2014 BAU
  - Summer 2018 BAU

- $PM_{2.5}$ 36/12 km:
  - Annual 2008 MPE Base Year
  - Annual 2014 BAU
  - Annual 2018 BAU

The modeling inventories developed for the 2008 base year and the 2014 and 2018 forecast years were prepared using the same technical methodologies as employed by EPA for the PTR. These inventories, founded upon the base and future year modeling analyses performed by EPA have undergone considerable QA by the agency and thus represent some of the best information available in the central/eastern U.S. for this regional modeling purpose. The study team feels that the resulting "first principal" inventories are of sufficient technical credibility to justify their use in this regional analysis and are consistent with the inventories produced by EPA for the same purpose.

Air Quality Modeling

We examined the air quality impacts of the emissions prepared for the base year 2008 simulation and examined residual nonattainment in 2014 and 2018. The air quality modeling associated with this task had three primary objectives.

The first objective was to perform 2008 baseline and 2014 and 2018 future year modeling exercises with CAMx v.5.20.1 modeling system setup at 36/12 km scale over the study domain for 2008. Figure 1 presents the CAMx modeling domains as simulated. These simulations shed light on the degree to which current controls and controls considered "business as usual" provide for attainment of the NAAQS.

The second objective was to use EPA's PTR attainment results with the new information produced for 2014 and 2018 to examine the rate at which residual ozone and PM nonattainment monitors come into attainment as planned federal and local controls begin to take effect in the out-years.

The third objective was to identify those areas, if any, for which residual nonattainment of the 8-hour ozone or annual/daily PM NAAQS are simulated in the future years.

The CAMx photochemical modeling consisted of the following work activities:

- Exercise CAMx for calendar year 2008 for the 2008 base case emissions that will serve as a starting point for the future-year 8-hr ozone Design Value

projections using RRFs starting with more recent (e.g., 2007-2009) observed 8-hr ozone Design Values than currently employed by EPA (2003-2007).

- Exercise CAMx for calendar year 2008 for the 2014 and 2018 BAU base cases and assess the degree of residual 8-hr ozone nonattainment at all key regulatory monitors in the region.

- Exercise CAMx for calendar year 2008 annual 36/12 km $PM_{2.5}$ for the 2008 base case and 2014 and 2018 BAU future-year cases and examine the residual $PM_{2.5}$ nonattainment compared with the EPA PTR generated emissions.

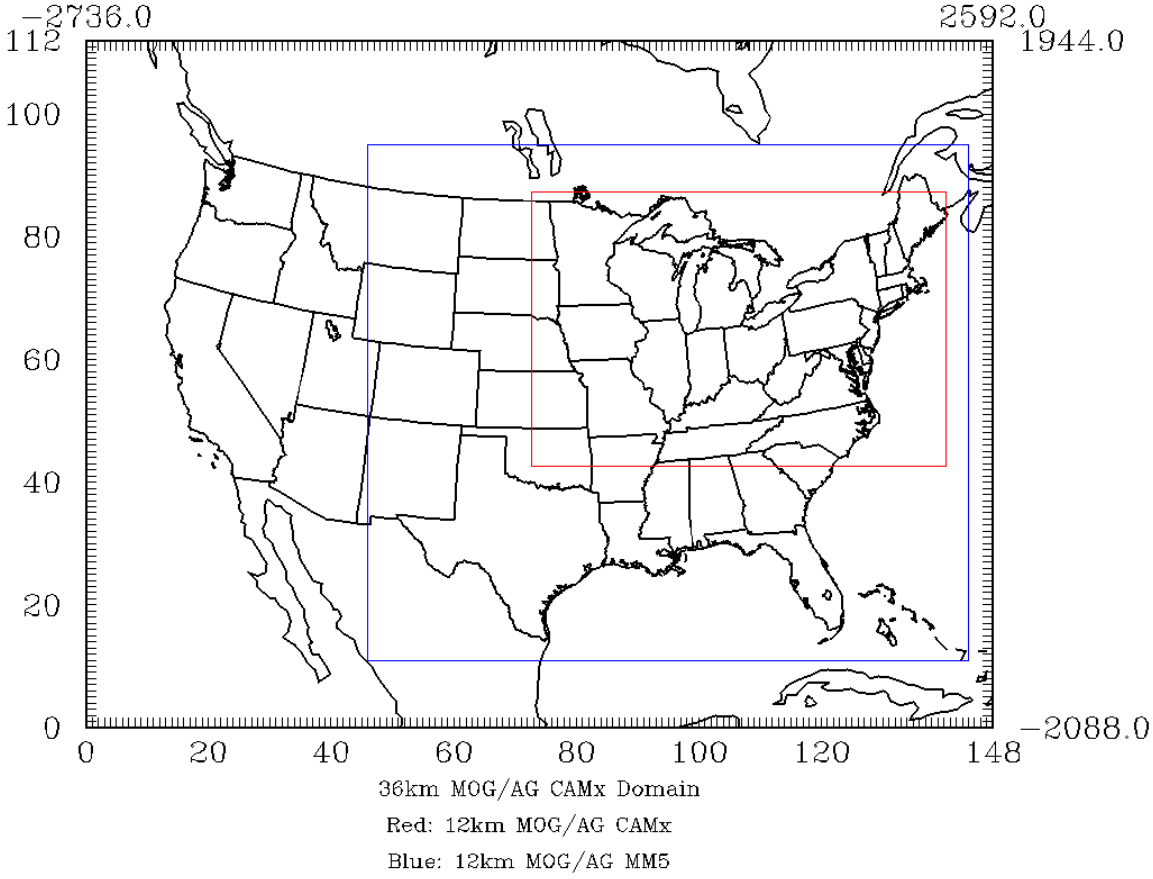

Figure 1. 36/12 km CAMx Modeling Domain

Procedures for Processing Ambient Ozone and $PM_{2.5}$ Data

In this analysis we use measurements of ambient ozone and $PM_{2.5}$ data from several State and Federal monitoring networks. This includes data from over 500 ozone monitoring sites as well as over 500 Federal Reference Method (FRM) $PM_{2.5}$ sites in the Eastern U.S. In addition, speciated $PM_{2.5}$ data from the Chemical Speciation Network (CSN) and IMPROVE network are used to estimate $PM_{2.5}$ species concentrations at each FRM site.

The ambient data used in this analysis were obtained from EPA's Air Quality System (AQS).

The EPA modeling guidance[2] recommends using the average of the three design value periods centered on the year of the base year emissions. Since 2008 was the base emissions year for the our modeling and design values were not yet available to represent the base year using the three design value periods centered on this year (2006-2008, 2007-2009, and 2008-2010), we used a recommended alternate approach by EPA.

The EPA recommended averaging technique assumes that at least five complete years of ambient data is available at each monitor. In some cases there will less than five years of available data (especially at relatively new monitoring sites). In this case EPA recommends that data from the monitor is used if there is at least three consecutive years of data. If there are three years of data then the baseline design value will be based on a single design value.

For ozone, we used the design value period that straddled the baseline inventory year (e.g., the 2007-2009 design value period for our 2008 baseline inventory year). For both annual and 24-hr $PM_{2.5}$, 2009 design value data were not yet available at the time of our analysis and so a design value period from a three year period which at least contained our base year in its range (2006-2008) was used.

Projection of Future Design Values and Determination of Nonattainment for Ozone and Annual and 24-Hour $PM_{2.5}$

The EPA notes that the projection methodology for ozone and $PM_{2.5}$ involves using the model predictions in a relative sense to estimate the change in concentration between 2008 and each future year scenario. For a particular location, the percent change in modeled concentration (the Relative Response Factor (RRF)) is multiplied by the corresponding observed base period ambient concentration (DVb) to estimate the future year design value for that location (DVf).

Consistent with EPA methods of calculating future year design values in the PTR with the Modeled Attainment Test Software (MATS)[3], we generated ozone and $PM_{2.5}$ future design values and resulting nonattainment predictions using EPA default settings in the software package and with noted differences in design value period years chosen as noted above.

Results

The Modeled Attainment Test Software (MATS) v2.3.1 was used to implement the modeled attainment tests for particulate matter ($PM_{2.5}$) and ozone (O_3) for the air quality simulations conducted in this analysis. An update made to the public distribution of this model was the inclusion of final 2009 ozone design value data as published by EPA in

[2] http://www.epa.gov/ttn/scram/guidance/guide/final-03-pm-rh-guidance.pdf
[3] http://www.epa.gov/scram001/modelingapps_mats.htm

August 2010. These data were used in the attainment tests conducted for 8-hr ozone in the modeling domain. Most recent data distributed with the noted version of the software were used in the annual and 24-hr $PM_{2.5}$ attainment tests.

Some of the key attainment findings of this latest study include:

8-hr Ozone Attainment Demonstration: Using 8-hr ozone design values calculated from 2007-2009 observational data sets, we find that only three counties in our 12km modeling domain exceed the objective 1997 8-hr ozone NAAQS of 85 ppb in 2008. These counties are:

- Bucks County, Pennsylvania (88 ppb),
- Harford County, Maryland (87 ppb), and
- Mecklenburg County, North Carolina (86 ppb).

Our future year simulations of 2014 and 2018 indicate that all counties and monitors within the 12km modeling domain achieve attainment by 2014 and remain in attainment in 2018. The top modeled 8-hr ozone design value counties (ranked by descending 2014 DVf) are presented in Figure 2 below. A complete listing of county level results from the associated MATS run is provided in Appendix A to this document.

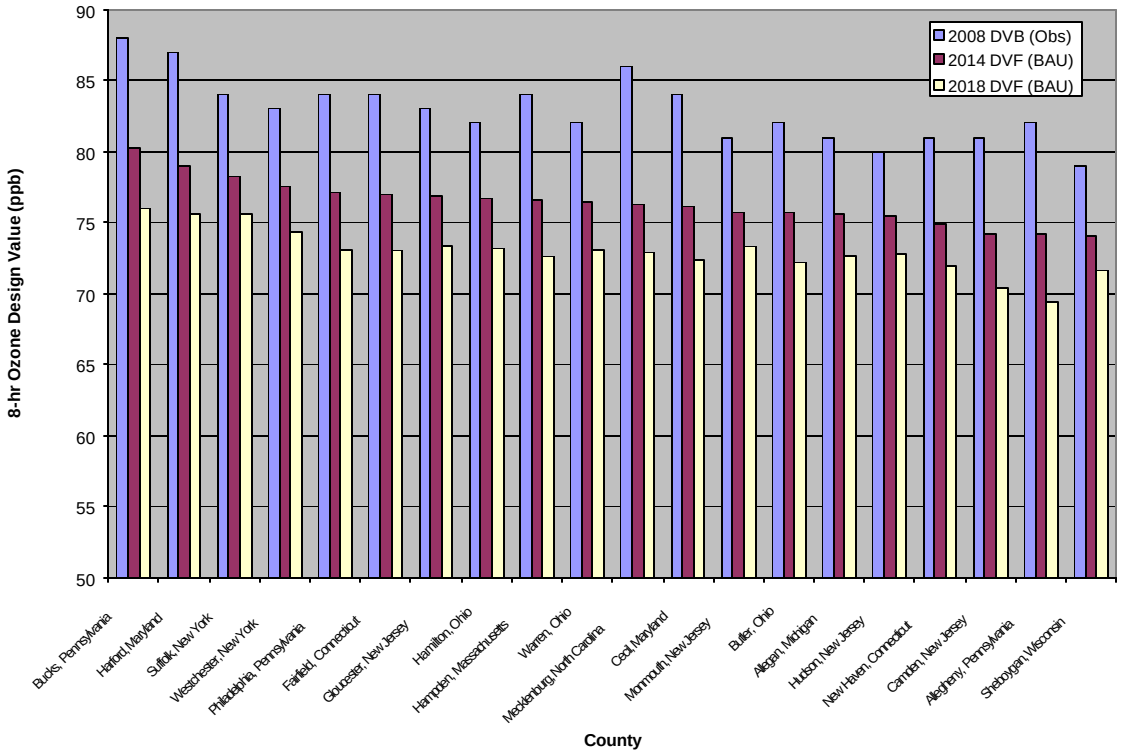

Figure 2. Modeled 2014 and 2018 8-hr Ozone Design Values (ppb) on the 12km Grid.

From these results, we have found that the ozone objectives of the proposed transport rule can be achieved with no new controls beyond BAU no later than 2014.

Annual $PM_{2.5}$ Attainment Demonstration: Our modeling shows that all but nine counties in the 12km modeling domain are in attainment of the annual $PM_{2.5}$ NAAQS in 2008. These counties and their associated 2008 DVbs are:

- Allegheny County, Pennsylvania (18.3 µg/m^3),
- Madison County, Illinois (15.7 µg/m^3),
- Hamilton County, Ohio (15.7 µg/m^3),
- Wayne County, Michigan (15.4 µg/m^3),
- Brooke County, West Virginia (15.4 µg/m^3),
- Kanawha County, West Virginia (15.4 µg/m^3),
- Clark County, Indiana (15.3 µg/m^3),
- Cabell County, West Virginia (15.2 µg/m^3), and
- Cuyahoga County, Ohio (15.1 µg/m^3).

From this list, only one county (Allegheny County, PA) was found to remain in nonattainment of the 15.0 µg/m^3 annual $PM_{2.5}$ NAAQS in 2014 (16.6 µg/m^3) and 2018 (16.2 µg/m^3). The top modeled annual $PM_{2.5}$ design value counties (ranked by descending 2014 DVf) are presented in Figure 3 below. A complete listing of county level results from the associated MATS run is provided in Appendix B to this document.

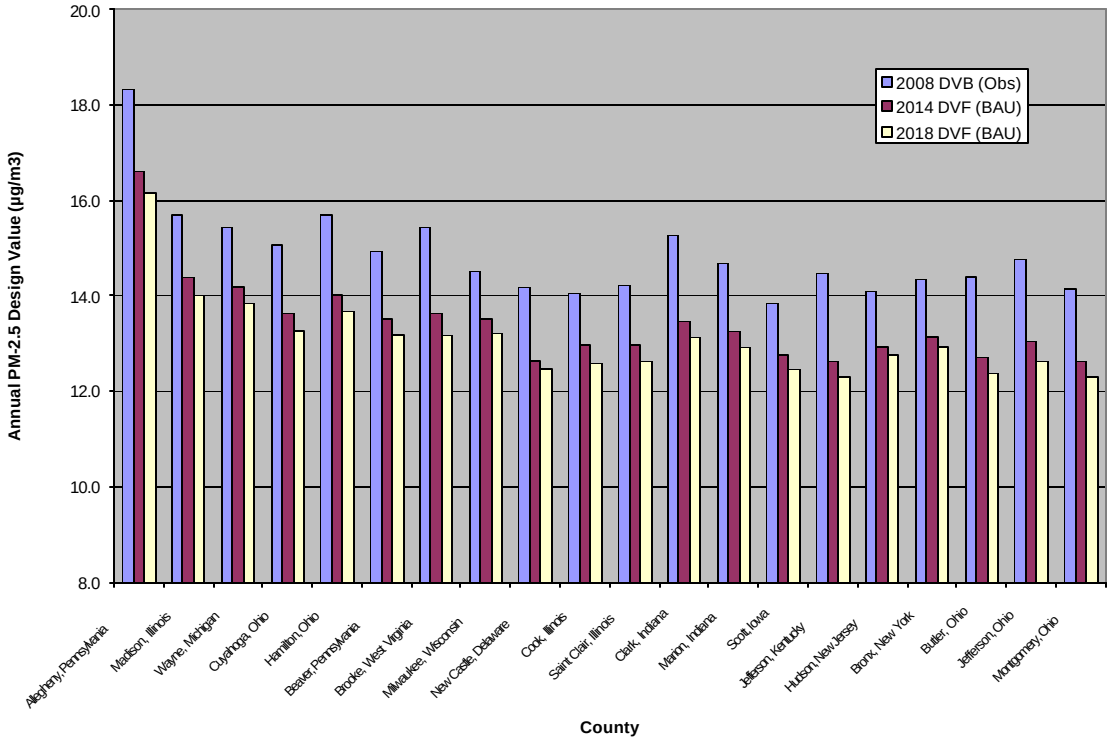

Figure 3. Modeled 2014 and 2018 Annual $PM_{2.5}$ Design Values (µg/m^3) on the 12km Grid.

From these results, the annual $PM_{2.5}$ objectives of the proposed transport rule can be achieved with no new controls beyond BAU no later than 2014 with the possible exception of additional local controls at the Allegheny County, PA location. This site has been previously documented to be heavily influenced by emissions from local sources[4].

24-hr $PM_{2.5}$ Attainment Demonstration: Our modeling shows that twenty-one counties in the 12km modeling domain are in nonattainment of the 24-hr $PM_{2.5}$ NAAQS in 2008. These counties and their associated 2008 DVbs are:

- Allegheny, Pennsylvania (53.4 $\mu g/m^3$),
- Brooke, West Virginia (40.5 $\mu g/m^3$),
- Hudson, New Jersey (38.4 $\mu g/m^3$),
- Cuyahoga, Ohio (38.1 $\mu g/m^3$),
- Hancock, West Virginia (37.8 $\mu g/m^3$),
- Wayne, Michigan (37.1 $\mu g/m^3$),
- New York, New York (36.9 $\mu g/m^3$),
- Jefferson, Ohio (36.8 $\mu g/m^3$),
- Lancaster, Pennsylvania (36.6 $\mu g/m^3$),
- Milwaukee, Wisconsin (36.5 $\mu g/m^3$),
- New Castle, Delaware (36.4 $\mu g/m^3$),
- Madison, Illinois (36.2 $\mu g/m^3$),
- Union, New Jersey (36.1 $\mu g/m^3$),
- Bronx, New York (36.1 $\mu g/m^3$),
- Beaver, Pennsylvania (36.1 $\mu g/m^3$),
- Chester, Pennsylvania (35.9 $\mu g/m^3$),
- Dauphin, Pennsylvania (35.8 $\mu g/m^3$),
- Northampton, Pennsylvania (35.7 $\mu g/m^3$),
- Philadelphia, Pennsylvania (35.7 $\mu g/m^3$),
- Washington, Pennsylvania (35.6 $\mu g/m^3$), and
- Kanawha, West Virginia (35.6 $\mu g/m^3$).

From this list, only two counties (Allegheny County, PA and Brooke County, WV) were found to remain in nonattainment of the 35 $\mu g/m^3$ 24-hr $PM_{2.5}$ NAAQS in 2014 (51.2 and 38.0 $\mu g/m^{3,}$ respectively) and in 2018 (50.0 and 37.2 $\mu g/m^{3,}$ respectively). The top modeled annual $PM_{2.5}$ design value counties (ranked by descending 2014 DVf) are presented in Figure 4 below. A complete listing of county level results from the associated MATS run is provided in Appendix B to this document.

[4] Proposed Revision to the Allegheny County Portion of the Pennsylvania State Implementation Plan. Attainment Demonstration for the Liberty-Clairton PM2.5 Nonattainment Area. Allegheny County Health Department. February 22, 2010.

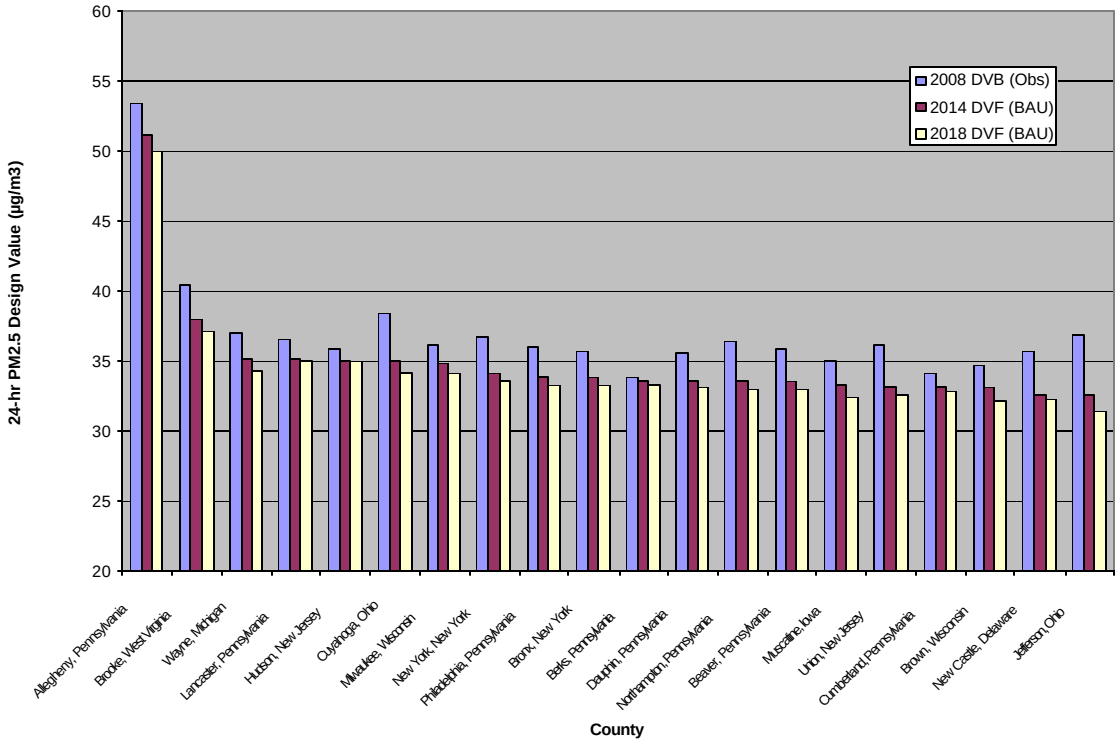

Figure 4. Modeled 2014 and 2018 24-hr $PM_{2.5}$ Design Values ($\mu g/m^3$) on the 12km Grid.

From these results, the 24-hr $PM_{2.5}$ objectives of the proposed transport rule can be achieved with no new controls beyond BAU no later than 2014 with the possible exception of additional local controls at the Allegheny County, PA and Brooke County, WV locations.

Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

The EPA's Proposed Transport Rule (PTR) identifies links between specific upwind states and downwind ozone or $PM_{2.5}$ nonattainment areas based on photochemical modeling of the 2005 base year and two future years: 2012 and 2014. Model results for the base and future years are used to compute relative reduction factors (RRFs) equal to the ratio of predicted future year to corresponding predicted base year design values (DVs). These RRFs are then multiplied by DVs calculated from monitoring data for a base period centered on the 2005 base model year to obtain the predicted future year DV.

Two different base period DVs are calculated from observations: the *average* of DVs computed from measurements for periods ending 2005, 2006, and 2007 (i.e., average of the three design values for the three attainment periods 2003-2005, 2004-2006, and 2005-2007) and the *maximum* of these three base period DVs. RRFs and resulting predicted future year DVs were computed by EPA using the Modeled Attainment Test Software (MATS).

EPA's PTR identifies two categories of ozone and $PM_{2.5}$ monitoring sites based on the predicted future year DVs determined from MATS in the above manner:

1. "Nonattainment" sites are those monitoring sites for which the average of the three DVs is projected to exceed the NAAQS in 2012

2. "Maintenance" sites are those monitoring sites that are not nonattainment sites as in (1) above but the maximum of the three DVs is projected to exceed the NAAQS in 2012

EPA then used source apportionment modeling to determine which states are predicted to contribute an amount in excess of 1% of the level of the National Ambient Air Quality Standard (NAAQS) to ozone or $PM_{2.5}$ at each downwind nonattainment or maintenance monitoring site defined in the above manner. Emissions from any such states are deemed to produce a "significant" contribution to either nonattainment or maintenance, respectively, of the ozone or $PM_{2.5}$ NAAQS for purposes of the PTR. Thus, significant transport couples are defined by EPA based on DVs calculated from observations made during 2003 – 2007. However, EPA has now released DV values based on observations from two more recent periods: 2006-2008 and 2007-2009.[5] These more recent DVs reflect reductions in ozone and $PM_{2.5}$ precursor emissions which have occurred since 2003-2007 and thus a reduction in the number of potential nonattainment and maintenance sites as defined above.

We examined EPA's list of nonattainment and maintenance monitoring sites for 2012 as defined in the PTR to determine which of these sites were actually already in attainment of the NAAQS based on observations from 2006-2009. Sites already in attainment based on these most recent data represent locations where transport from upwind sources is not contributing to nonattainment or maintenance problems. In performing this comparison, we used DVs calculated from annual summary statistics (e.g., annual fourth highest daily maximum 8-hour average ozone concentration) for 2006-2009. In some cases, insufficient data were available from which to compute the annual summary statistic. In these cases, we used procedures for filling in missing data similar to those used by EPA for computing air quality trends[6]. This is a conservative approach within the context of this analysis as DVs based on filled-in data may suggest a monitoring site is a nonattainment or maintenance site whereas MATS does not contain a DV for the monitoring site.

[5] Results presented here are based on EPA's final ozone and PM2.5 design values for 2006-2008, final ozone design values for 2007-2009 and 13 July 2010 draft PM2.5 design values for 2007-2009 (http://epa.gov/airtrends/values.html; http://www.epa.gov/ttn/analysis/dvreview.htm).

[6] http://epa.gov/airtrends/reports.html

Results

Total counts of nonattainment and maintenance monitoring sites based on EPA's 2012 projections in the PTR versus nonattainment and maintenance sites determined from 2006-2009 data are provided in Table 2. These results show that over 80% of the sites predicted by EPA to be in nonattainment of the ozone or $PM_{2.5}$ standards in 2012 are already in attainment as of 2009 based on an average of the 2006-2008 and 2007-2009 DVs. Furthermore, over 80% of the $PM_{2.5}$ 2012 maintenance sites and 1/3 of the ozone 2012 maintenance sites are no longer maintenance sites as of 2009. These results indicate that air quality has improved more rapidly than predicted by EPA's PTR modeling.

Table 2. Counts of nonattainment and maintenance sites.[7]

	Ozone	**$PM_{2.5}$ (Annual)**	**$PM_{2.5}$ (24-Hour)**
2012 Nonattainment Sites	11	32	103
2012 Maintenance Sites	15	16	44
2012 Nonattainment sites already in attainment based on 2006-2009 data	9	27	83
2012 Maintenance sites that are not maintenance or nonattainment sites based on 2006-2009 data	5	13	37

We examined locations of monitoring sites projected by EPA to be nonattainment in 2012 which were observed to be in attainment as of 2009 based on averaging the 2006-2008 and 2007-2009 DVs. Table 3 lists all counties with such monitoring sites. Similarly, Table 4 lists all counties with monitoring sites projected by EPA to be maintenance in 2012 which were observed to be neither maintenance nor nonattainment as of 2009 based on 2006-2008 and 2007-2009 DVs. Appendix F to this document presents our data and calculations in developing these tables.

[7] As determined from list of monitoring sites included in the PTR

Table 3. Counties projected by EPA to be nonattainment in 2012 which were observed to be in attainment as of 2009 based on averaging 2006-2008 and 2007-2009 DVs.

Ozone		PM (Annual)		PM (24-Hour)	
County	*State*	*County*	*State*	*County*	*State*
E. Baton Rouge	Louisiana	Bibb	Georgia	Jefferson	Alabama
Suffolk	New York	Clayton	Georgia	New Haven	Connecticut
Brazoria	Texas	Fulton	Georgia	Cook	Illinois
Harris	Texas	Cook	Illinois	Madison	Illinois
Tarrant	Texas	Madison	Illinois	Saint Clair	Illinois
		Saint Clair	Illinois	Will	Illinois
		Clark	Indiana	Clark	Indiana
		Dubois	Indiana	Dubois	Indiana
		Marion	Indiana	Knox	Indiana
		Jefferson	Kentucky	Lake	Indiana
		Wayne	Michigan	Marion	Indiana
		Butler	Ohio	Tippecanoe	Indiana
		Cuyahoga	Ohio	Vigo	Indiana
		Hamilton	Ohio	Scott	Iowa
		Allegheny	Pennsylvania	Daviess	Kentucky
		Beaver	Pennsylvania	Baltimore (City)	Maryland
		Lancaster	Pennsylvania	Monroe	Michigan
		York	Pennsylvania	Oakland	Michigan
		Cabell	West Virginia	St. Clair	Michigan
		Kanawha	West Virginia	Washtenaw	Michigan
				Wayne	Michigan
				Saint Charles	Missouri
				St. Louis City	Missouri
				Hudson	New Jersey
				Union	New Jersey
				Bronx	New York
				New York	New York
				Butler	Ohio
				Cuyahoga	Ohio
				Franklin	Ohio
				Hamilton	Ohio
				Montgomery	Ohio
				Summit	Ohio
				Allegheny	Pennsylvania
				Beaver	Pennsylvania
				Berks	Pennsylvania
				Cambria	Pennsylvania
				Cumberland	Pennsylvania
				Dauphin	Pennsylvania
				York	Pennsylvania
				Sumner	Tennessee
				Dane	Wisconsin

Table 4. Counties projected by EPA to be maintenance in 2012 which were observed to be neither maintenance nor nonattainment as of 2009 based on 2006-2008 and 2007-2009 DVs.

Ozone		**PM (Annual)**		**PM (24-Hour)**	
County	*State*	*County*	*State*	*County*	*State*
Dallas	Texas	Cook	Illinois	Camden	New Jersey
Harris	Texas	Jefferson	Kentucky	Union	New Jersey
		Cuyahoga	Ohio	New York	New York
		Hamilton	Ohio	Cuyahoga	Ohio
		Montgomery	Ohio	Lucas	Ohio
		Stark	Ohio	Mahoning	Ohio
		Berks	Pennsylvania	Preble	Ohio
		Berkeley	West Virginia	Stark	Ohio
		Hancock	West Virginia	Summit	Ohio
		Marion	West Virginia	Trumbull	Ohio
				Allegheny	Pennsylvania
				Davidson	Tennessee
				Brown	Wisconsin
				Milwaukee	Wisconsin
				Waukesha	Wisconsin

Summary and Conclusions

Photochemical modeling analyses, including the EPA attainment test, were conducted for three key years: 2008, 2014, and 2018. The modeling for year 2008 served the important function of providing a recent 'typical baseline' year for the purpose of calculating relative reduction factors (RRFs). Most importantly, moving to 2008 took direct advantage of recent reductions in design values measured across the modeling region and the use of current emissions inventory data made available from EPA and others. Results of this work clarify when the effects of "Business As Usual" state and federal control programs would begin to significantly lower the 8-hr ozone and annual and 24-hr $PM_{2.5}$ design values at key monitors in the modeling domain.

The SO_2 and NO_x emission forecast for this analysis ("Business As Usual") assumed compliance with the Clean Air Interstate Rule, as well as utility agreements with regard to Consent Decrees and State programs. The future regional electrical generation by fuel type and regional fuel forecasts that were incorporated into the model were from the Energy Information's Administration's Annual Energy Outlook 2009 (AEO2009) - Updated Reference Case.

Using EPA attainment test software and algorithms with the output from our "Business As Usual" CAMx simulations for 2008, 2014 and 2018, we conclude that the ozone objectives of the proposed transport rule can be achieved within our 12km modeling domain with no new controls beyond "Business As Usual" no later than 2014.

We also conclude that the annual $PM_{2.5}$ objectives of the proposed transport rule can be achieved within our 12km modeling domain with no new controls beyond "Business As Usual" no later than 2014 with the possible exception of additional local controls at the Allegheny County, PA location.

Additionally, we conclude that the 24-hr $PM_{2.5}$ objectives of the proposed transport rule can be achieved within our 12km modeling domain with no new controls beyond "Business As Usual" no later than 2014 with the possible exception of additional local controls at the Allegheny County, PA and Brooke County, WV locations.

Finally, we conclude that that over 80% of the sites predicted by EPA to be in nonattainment of the ozone or $PM_{2.5}$ standards in 2012 are already in attainment as of 2009 based on an average of the 2006-2008 and 2007-2009 DVs. Furthermore, over 80% of the $PM_{2.5}$ 2012 maintenance sites and 1/3 of the ozone 2012 maintenance sites are no longer maintenance sites as of 2009. These results indicate that air quality has improved more rapidly than predicted by EPA's PTR modeling.

Appendices

ALPINE GEOPHYSICS

ENVIRON

Appendix A

MATS 2.3.1 Output Files; 8-hr Ozone Business As Usual Runs

ALPINE GEOPHYSICS

ENVIRON

Table A-1. MATS 2.3.1 Output Files; 2014 8-hr Ozone Business As Usual Runs

MATS 2.3.1 - Ouput File - Ozone
2014 Business As Usual Scenario

Year												
_id	_type	lat	long	date	b_o3_DV	f_o3_DV	referencecell	rrf	ppb	days	_state_name	_county_name
10331002		34.760556	-87.650556	2009	67	60.3	81002	0.9001	74	10	Alabama	Colbert
10890014		34.68767	-86.58637	2009	73	65.4	89002	0.8962	70	14	Alabama	Madison
11030011		34.5187353	-86.9769392	2009	70	62.9	88001	0.8991	70	13	Alabama	Morgan
50350005		35.1972876	-90.1931408	2009	76	69.4	62004	0.9142	76	10	Arkansas	Crittenden
51010002		35.8327263	-93.2082595	2009	68	-9	39009	-9	70	0	Arkansas	Newton
51190007		34.7561888	-92.2812959	2009	73	-9	47001	-9	70	2	Arkansas	Pulaski
51191002		34.8357211	-92.2605814	2009	73	-9	47001	-9	70	2	Arkansas	Pulaski
51430005		36.1797001	-94.1168274	2009	64	57.7	32012	0.9018	70	6	Arkansas	Washington
90010017		41.003611	-73.585	2009	79	72.6	172077	0.9202	85	29	Connecticut	Fairfield
90011123		41.399167	-73.443056	2009	84	77	172080	0.9175	85	11	Connecticut	Fairfield
90013007		41.1525	-73.103056	2009	81	74.6	174079	0.9211	85	26	Connecticut	Fairfield
90019003		41.118333	-73.336667	2009	82	75.4	173078	0.9206	85	30	Connecticut	Fairfield
90031003		41.784722	-72.631667	2009	81	73.7	176085	0.9111	85	10	Connecticut	Hartford
90050005		41.821389	-73.297222	2009	-7	-9	172084	0.9182	78	11	Connecticut	Litchfield
90050006		41.841389	-73.163333	2009	-7	-9	172085	0.9204	77	11		
90070007		41.552222	-72.63	2009	81	73.6	177083	0.9097	85	16	Connecticut	Middlesex
90090027		41.301111	-72.902778	2009	72	66.4	175080	0.9229	85	24	Connecticut	New Haven
90091123		41.310833	-72.916944	2009	-7	-9	175081	0.9223	85	22		
90093002		41.260833	-72.55	2009	81	74.9	178081	0.9247	85	25	Connecticut	New Haven
90110008		41.317222	-72.065	2009	-7	-9	181082	0.9267	85	23	Connecticut	New London
90110124		41.35362	-72.07882	2009	-7	-9	181082	0.9267	85	23	Connecticut	New London
90131001		41.976389	-72.388056	2009	81	73.7	177087	0.9104	84	10	Connecticut	Tolland
100010002		38.984722	-75.555556	2009	74	68.5	163055	0.9263	85	14	Delaware	Kent
100031003		39.761111	-75.491944	2009	-7	-9	161062	0.9143	81	10		
100031007		39.551111	-75.730833	2009	75	67.3	160060	0.898	85	12	Delaware	New Castle
100031010		39.817222	-75.563889	2009	-7	-9	161063	0.9165	82	10	Delaware	New Castle
100031013		39.773889	-75.496389	2009	74	67.6	161062	0.9143	81	10	Delaware	New Castle
100051002		38.644444	-75.613056	2009	76	69.3	163052	0.9125	77	10	Delaware	Sussex
100051003		38.779167	-75.163056	2009	-7	-9	166054	0.9314	85	22	Delaware	Sussex
110010025		38.975278	-77.022778	2009	77	67.9	152053	0.883	84	10	District Of Col	District of Columbia
110010041		38.897222	-76.952778	2009	78	69.6	153052	0.8929	85	11	District Of Col	District of Columbia
110010043		38.918889	-77.0125	2009	80	71.4	153052	0.8929	85	11	District Of Col	District of Columbia
130550001		34.4742929	-85.4080034	2009	71	62.9	99001	0.8867	71	11	Georgia	Chattooga
130570001		34.320278	-84.554722	2009	-7	-9	105001	0.8784	74	10		
130850001		34.3763282	-84.0593525	2009	73	64.1	109002	0.879	75	11	Georgia	Dawson

MATS 2.3.1 - Ouput File - Ozone
2014 Business As Usual Scenario

Year												
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131110094		34.9075	-84.526389	2009	-7	-9	105006	0.8924	72	11		
132130003		34.7851967	-84.6264223	2009	76	67.1	104005	0.8829	74	12	Georgia	Murray
170010006		39.93301	-91.4042371	2009	-7	-9	50047	-9	70	4		
170010007		39.9154094	-91.3358683	2009	67	61.4	51047	0.9174	70	7	Illinois	Adams
170190004		40.1237962	-88.229531	2009	65	-9	72051	-9	70	1	Illinois	Champaign
170230001		39.210883	-87.668416	2009	66	60.2	77043	0.913	70	6	Illinois	Clark
170310001		41.6709919	-87.7324569	2009	73	69	74065	0.9455	70	8	Illinois	Cook
170310032		41.7558324	-87.5453497	2009	71	66.5	75066	0.938	73	10	Illinois	Cook
170310050		41.7075696	-87.5685739	2009	-7	-9	75066	0.938	73	10		
170310063		41.8769694	-87.6343305	2009	-7	-9	75067	0.9484	79	10		
170310064		41.7907869	-87.6016465	2009	67	62.8	75066	0.938	73	10	Illinois	Cook
170310072		41.8958123	-87.6076833	2009	66	62.5	75067	0.9484	79	10	Illinois	Cook
170310075		41.964167	-87.658611	2009	-7	-9	74068	0.9518	79	11		
170310076		41.7514	-87.7134882	2009	71	67.8	74066	0.9562	71	10	Illinois	Cook
170311003		41.9843323	-87.7920017	2009	69	65.6	74068	0.9518	79	11	Illinois	Cook
170311601		41.6681203	-87.9905697	2009	74	69.9	72065	0.9456	70	10	Illinois	Cook
170314002		41.8552431	-87.7524697	2009	65	62.9	74067	0.9678	70	9	Illinois	Cook
170314007		42.0602847	-87.8632254	2009	64	60.2	73069	0.9408	80	10	Illinois	Cook
170314201		42.1399962	-87.7992269	2009	-7	-9	73069	0.9408	80	10	Illinois	Cook
170317002		42.0618572	-87.6741672	2009	67	64	74069	0.9561	83	10	Illinois	Cook
170318003		41.631389	-87.568056	2009	-7	-9	75065	0.9571	72	10		
170436001		41.8130494	-88.0728269	2009	62	59.2	72066	0.956	71	11	Illinois	DuPage
170491001		39.0671593	-88.548934	2009	69	-9	71041	-9	70	4	Illinois	Effingham
170650001		37.998221	-88.493108	2009	-7	-9	72031	0.9127	70	6		
170650002		38.0821552	-88.6249434	2009	68	62.8	71032	0.924	70	5	Illinois	Hamilton
170831001		39.1105395	-90.3240799	2009	70	63	58040	0.9014	78	11	Illinois	Jersey
170890005		42.0491478	-88.2730293	2009	68	64.9	70068	0.9548	72	11	Illinois	Kane
170970001		42.177222	-87.864722	2009	-7	-9	73070	0.9474	83	11		
170971002		42.3867056	-87.8414062	2009	67	63.2	73072	0.9438	84	11	Illinois	Lake
170971007		42.4675733	-87.810047	2009	74	69.8	73072	0.9438	84	11	Illinois	Lake
170973001		42.290556	-87.981667	2009	-7	-9	72071	0.9446	74	10		
171110001		42.2214417	-88.2422073	2009	68	64	70070	0.9424	71	10	Illinois	McHenry
171132003		40.5187354	-88.9968957	2009	71	60.9	67054	0.859	70	6	Illinois	McLean
171150013		39.8668339	-88.9255945	2009	70	-9	68048	-9	70	2	Illinois	Macon
171170002		39.3960753	-89.8097389	2009	68	60.5	62043	0.891	70	8	Illinois	Macoupin

MATS 2.3.1 - Ouput File - Ozone
2014 Business As Usual Scenario

Year												
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171190008		38.890186	-90.1480311	2009	72	64.3	60038	0.8943	85	10	Illinois	Madison
171191009		38.7265726	-89.9599625	2009	77	68.5	61037	0.8897	85	11	Illinois	Madison
171192007		38.7933411	-90.0397622	2009	-7	-9	60037	0.9002	85	12		
171193007		38.8606695	-90.1058511	2009	73	65.2	60038	0.8943	85	10	Illinois	Madison
171430024		40.6874204	-89.6069428	2009	62	53.5	62055	0.8641	70	6	Illinois	Peoria
171431001		40.7455039	-89.585869	2009	72	62.2	62055	0.8641	70	6	Illinois	Peoria
171570001		38.1762776	-89.7884586	2009	67	61.8	63032	0.9225	70	11	Illinois	Randolph
171613002		41.514727	-90.5173503	2009	62	-9	55062	-9	70	1	Illinois	Rock Island
171630010		38.6120345	-90.1604766	2009	70	63.3	60036	0.9055	85	12	Illinois	Saint Clair
171670010		39.8441219	-89.6048392	2009	64	58.3	63047	0.9122	70	7	Illinois	Sangamon
171971008		41.575709	-88.055089	2009	-7	-9	72064	0.9362	70	7		
171971011		41.2215371	-88.1909672	2009	64	-9	71061	-9	70	3	Illinois	Will
172010009		42.2871896	-89.0770053	2009	-7	-9	65070	-9	70	2	Illinois	Winnebago
172012001		42.3349822	-89.0377748	2009	66	-9	65070	-9	70	2	Illinois	Winnebago
180030002		41.221667	-85.017222	2009	69	-9	93063	-9	70	4	Indiana	Allen
180030004		41.094722	-85.101944	2009	71	-9	93062	-9	70	3	Indiana	Allen
180110001		39.997484	-86.395172	2009	75	68.9	85051	0.9189	70	7	Indiana	Boone
180150002		40.540556	-86.553056	2009	68	-9	84056	-9	70	3	Indiana	Carroll
180190008		38.393833	-85.6641666	2009	-7	-9	92037	0.9008	82	10	Indiana	Clark
180350010		40.3	-85.245556	2009	69	62.1	93055	0.9008	70	5	Indiana	Delaware
180390002		41.719167	-85.831111	2009	-7	-9	87067	0.9094	70	5		
180390007		41.71805	-85.83055	2009	70	63.6	87067	0.9094	70	5	Indiana	Elkhart
180431004		38.308056	-85.834167	2009	73	66.3	91036	0.9094	82	11	Indiana	Floyd
180510011		38.42525	-87.465889	2009	-7	-9	79036	0.9012	72	11		
180550001		38.985578	-86.99012	2009	74	69.6	82041	0.9412	70	6	Indiana	Greene
180570005		40.065194	-86.008061	2009	76	69.8	88052	0.9193	73	10	Indiana	Hamilton
180590003		39.935008	-85.840513	2009	74	68.5	89051	0.9257	72	10	Indiana	Hancock
180630004		39.758967	-86.397148	2009	72	67.1	85049	0.9324	70	7	Indiana	Hendricks
180690002		40.960556	-85.38	2009	66	-9	91061	-9	70	2	Indiana	Huntington
180710001		38.920798	-86.080523	2009	70	65.4	89041	0.9349	70	9	Indiana	Jackson
180810002		39.417203	-86.152395	2009	73	68.7	88046	0.942	70	6	Indiana	Johnson
180890022		41.606667	-87.304722	2009	-7	-9	77065	0.9529	78	12	Indiana	Lake
180890024		41.263889	-87.4175	2009	-7	-9	77062	0.9385	70	9		
180890030		41.681384	-87.494722	2009	70	66.3	76065	0.9473	74	10	Indiana	Lake
180892008		41.639444	-87.493611	2009	70	66.3	76065	0.9473	74	10	Indiana	Lake

MATS 2.3.1 - Ouput File - Ozone
2014 Business As Usual Scenario

Year												
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180910005		41.7170219	-86.9077427	2009	66	62.2	80066	0.9432	85	12	Indiana	LaPorte
180910010		41.629167	-86.684722	2009	68	64.2	81066	0.9453	85	10	Indiana	LaPorte
180950010		40.0025	-85.656944	2009	69	63.3	90052	0.9185	72	10	Indiana	Madison
180970042		39.646254	-86.248784	2009	-7	-9	87048	0.9631	70	7	Indiana	Marion
180970050		39.858961	-86.021341	2009	77	72.1	88050	0.9369	72	10	Indiana	Marion
180970057		39.749019	-86.186314	2009	70	66.4	87049	0.9496	71	10	Indiana	Marion
180970073		39.7894856	-86.0608498	2009	69	64.9	88049	0.9416	71	11	Indiana	Marion
180970078		39.811097	-86.114469	2009	-7	-9	87049	0.9496	71	10	Indiana	Marion
181090005		39.575596	-86.477914	2009	74	-9	85047	-9	70	4	Indiana	Morgan
181230008		38.206944	-86.575	2009	-7	-9	86034	0.89	75	11		
181230009		38.113101	-86.603611	2009	72	64.5	86033	0.8959	79	10	Indiana	Perry
181270020		41.631389	-87.086944	2009	-7	-9	79065	0.9525	81	11		
181270024		41.6175	-87.199167	2009	73	69.6	78065	0.9536	81	11	Indiana	Porter
181270026		41.510278	-87.038611	2009	68	64.1	79064	0.9439	71	11	Indiana	Porter
181290003		38.005278	-87.718333	2009	72	63.8	78032	0.8872	72	11	Indiana	Posey
181410010		41.551667	-86.370556	2009	66	60.5	84065	0.9177	70	6	Indiana	St. Joseph
181410015		41.696692	-86.214683	2009	61	55.7	85067	0.9138	70	6	Indiana	St. Joseph
181411007		41.742583	-86.110556	2009	71	64.8	85067	0.9138	70	6	Indiana	St. Joseph
181450001		39.611293	-85.873582	2009	75	71.2	89048	0.9503	70	6	Indiana	Shelby
181630012		38.021667	-87.569444	2009	-7	-9	79032	0.8816	73	10	Indiana	Vanderburgh
181630013		38.113889	-87.536944	2009	76	67.2	79033	0.8846	73	10	Indiana	Vanderburgh
181630021		38.013248	-87.5778561	2009	73	64.3	79032	0.8816	73	10	Indiana	Vanderburgh
181670018		39.486111	-87.401389	2009	64	58.2	79045	0.9096	70	10	Indiana	Vigo
181670024		39.560556	-87.313056	2009	66	59.3	79046	0.8986	70	10	Indiana	Vigo
181730008		38.051944	-87.278333	2009	72	63.2	81032	0.8791	77	11	Indiana	Warrick
181730009		38.194444	-87.341389	2009	69	61.2	80034	0.8874	74	10	Indiana	Warrick
181730011		37.95445	-87.321933	2009	64	56.4	81031	0.8819	77	12	Indiana	Warrick
190170011		42.743056	-92.513056	2009	64	-9	41073	-9	70	0	Iowa	Bremer
190450021		41.8749989	-90.1775739	2009	67	-9	57066	-9	70	1	Iowa	Clinton
190850007		41.832256	-95.9281847	2009	-7	-9	18063	-9	70	1	Iowa	Harrison
190851101		41.7802614	-95.9484355	2009	64	-9	18063	-9	70	1	Iowa	Harrison
191130028		41.910556	-91.651944	2009	66	-9	47065	-9	70	1	Iowa	Linn
191130033		42.280556	-91.526944	2009	66	-9	48069	-9	70	1	Iowa	Linn
191130040		41.97677	-91.68766	2009	-7	-9	47066	-9	70	1	Iowa	Linn
191370002		40.9691124	-95.0449514	2009	63	-9	24056	-9	70	0	Iowa	Montgomery

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191471002		43.1237042	-94.6935184	2009	58	-9	26076	-9	70	0	Iowa	Palo Alto
191530030		41.6031833	-93.6433	2009	61	-9	34062	-9	70	1	Iowa	Polk
191530058		41.607778	-93.571944	2009	-7	-9	34062	-9	70	1		
191630014		41.6991742	-90.5219437	2009	66	-9	55064	-9	70	1	Iowa	Scott
191630015		41.5300106	-90.5876108	2009	63	-9	55062	-9	70	1	Iowa	Scott
191632011		41.6475	-90.430833	2009	-7	-9	56063	-9	70	1		
191690011		41.8828667	-93.6878	2009	62	-9	33064	-9	70	0	Iowa	Story
191770005		40.689167	-91.994444	2009	-7	-9	45054	-9	70	0		
191770006		40.695078	-92.006318	2009	64	-9	45054	-9	70	0	Iowa	Van Buren
191810022		41.2855333	-93.5839833	2009	63	-9	34059	-9	70	1	Iowa	Warren
200450004		39.00436	-95.22384	2009	-7	-9	23037	0.9185	70	7		
200910010		38.83859	-94.74643	2009	65	59.4	27036	0.9148	71	11	Kansas	Johnson
201030003		39.32746	-94.95127	2009	69	63.5	25040	0.9213	70	10	Kansas	Leavenworth
201070002		38.135833	-94.731944	2009	65	-9	27030	-9	70	4	Kansas	Linn
201730001		37.781389	-97.337222	2009	62	56.7	8026	0.9151	70	5	Kansas	Sedgwick
201730010		37.701111	-97.313889	2009	66	-9	8025	-9	70	3	Kansas	Sedgwick
201770013		39.02427	-95.71128	2009	66	60.6	20038	0.9192	70	5	Kansas	Shawnee
201910002		37.476944	-97.366389	2009	70	-9	8023	-9	70	2	Kansas	Sumner
202090021		39.1175	-94.635556	2009	66	61	27039	0.9256	75	14	Kansas	Wyandotte
210130002		36.608056	-83.736944	2009	67	-9	108022	-9	70	4	Kentucky	Bell
210150003		38.918056	-84.852778	2009	68	61.3	97042	0.9017	76	11	Kentucky	Boone
210190017		38.459167	-82.640556	2009	70	63.9	114040	0.9142	73	13	Kentucky	Boyd
210290006		37.985556	-85.713056	2009	70	63.3	92033	0.9044	78	10	Kentucky	Bullitt
210370003		39.065556	-84.451944	2009	-7	-9	100044	0.9494	79	10		
210373002		39.021806	-84.474453	2009	-7	-9	100044	0.9494	79	10	Kentucky	Campbell
210430500		38.238333	-82.988333	2009	69	65	112038	0.943	70	8	Kentucky	Carter
210470006		36.911667	-87.323611	2009	75	66	82022	0.8809	70	10	Kentucky	Christian
210590005		37.780833	-87.075556	2009	75	65.7	83030	0.877	77	10	Kentucky	Daviess
210610501		37.131389	-86.148056	2009	72	63.8	90025	0.8866	70	6	Kentucky	Edmonson
210670001		38.125833	-84.468333	2009	-7	-9	101035	0.9041	70	10	Kentucky	Fayette
210670012		38.065	-84.5	2009	70	63.2	101035	0.9041	70	10	Kentucky	Fayette
210830003		36.899167	-88.493611	2009	-7	-9	73021	0.9095	70	6		
210890007		38.548333	-82.731667	2009	72	65.6	113041	0.9122	73	11	Kentucky	Greenup
210910012		37.938889	-86.896944	2009	74	64.8	84032	0.8758	77	10	Kentucky	Hancock
210930006		37.706389	-85.851667	2009	74	67.2	92030	0.9082	71	10	Kentucky	Hardin

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211010013		37.858889	-87.575278	2009	-7	-9	79030	0.8928	72	11		
211010014		37.871389	-87.463333	2009	76	67.1	80031	0.8832	76	12	Kentucky	Henderson
211110027		38.13784	-85.57648	2009	75	67.3	93035	0.8975	81	10	Kentucky	Jefferson
211110051		38.06091	-85.89804	2009	79	71.8	91034	0.9099	79	11	Kentucky	Jefferson
211111021		38.26355	-85.71025	2009	70	63.5	92036	0.9075	82	12	Kentucky	Jefferson
211130001		37.893333	-84.589167	2009	71	64.7	100033	0.9119	70	8	Kentucky	Jessamine
211170007		39.0725	-84.525	2009	77	73	99044	0.9484	78	11	Kentucky	Kenton
211390003		37.155556	-88.393056	2009	69	62.7	74023	0.91	71	12	Kentucky	Livingston
211390004		37.070833	-88.334167	2009	-7	-9	74023	0.91	71	12		
211451024		37.058056	-88.5725	2009	72	66.6	72022	0.926	73	10	Kentucky	McCracken
211490001		37.606389	-87.253889	2009	-7	-9	82028	0.8854	72	11		
211850004		38.398611	-85.443333	2009	76	68	94037	0.8955	77	10	Kentucky	Oldham
211930003		37.283056	-83.220278	2009	70	-9	111029	-9	70	1	Kentucky	Perry
211950002		37.482778	-82.535278	2009	70	-9	116032	-9	70	2	Kentucky	Pike
211990003		37.0975	-84.611667	2009	67	-9	101026	-9	70	1	Kentucky	Pulaski
212090001		38.385833	-84.56	2009	-7	-9	100038	0.8991	70	10		
212130004		36.708611	-86.566389	2009	72	63.5	87021	0.8822	70	12	Kentucky	Simpson
212210013		36.901389	-88.013611	2009	-7	-9	77021	0.8795	70	5		
212218001		36.783889	-87.851944	2009	73	62.2	78020	0.8533	70	6	Kentucky	Trigg
212270008		37.036667	-86.250556	2009	67	58.8	89024	0.8791	70	9	Kentucky	Warren
230010014		43.974622	-70.124608	2009	72	65.7	187109	0.9138	78	11	Maine	Androscoggin
230050027		43.661944	-70.265833	2009	-7	-9	187106	0.9268	82	12		
230050029		43.660206	-70.2683887	2009	-7	-9	187106	0.9268	82	12	Maine	Cumberland
230052003		43.560833	-70.207778	2009	74	68.5	187106	0.9268	82	12	Maine	Cumberland
230090102		44.351667	-68.227222	2009	78	72.4	198117	0.9283	75	11	Maine	Hancock
230090103		44.37705	-68.2609	2009	73	67.5	197117	0.9247	76	10	Maine	Hancock
230090301		44.422778	-68.805556	2009	-7	-9	194116	0.9197	75	10	Maine	Hancock
230112005		44.230622	-69.785	2009	71	64.3	188112	0.9063	70	8	Maine	Kennebec
230130004		43.917955	-69.26059	2009	70	63.9	192111	0.9137	80	12	Maine	Knox
230173001		44.222222	-70.855556	2009	59	-9	181110	-9	70	4	Maine	Oxford
230191100		44.952043	-68.647677	2009	-7	-9	193121	-9	70	4	Maine	Penobscot
230194008		44.73487	-68.6785	2009	64	58.1	194119	0.9093	70	7	Maine	Penobscot
230210003		45.164167	-69.213889	2009	-7	-9	189122	-9	70	2		
230230003		43.702778	-69.838889	2009	-7	-9	189108	0.9225	83	12		
230230004		43.795296	-69.731669	2009	-7	-9	190109	0.9201	82	12	Maine	Sagadahoc

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230230006		44.005	-69.82778	2009	-7	-9	189110	0.9092	79	10	Maine	Sagadahoc
230290019		44.533611	-67.594167	2009	65	60.4	201119	0.9305	73	10	Maine	Washington
230290032		44.963633	-67.060728	2009	56	51.8	203124	0.925	70	6	Maine	Washington
230310038		43.659167	-70.62	2009	68	61.9	184106	0.9117	70	8	Maine	York
230310040		43.5888534	-70.8767846	2009	-7	-9	183105	0.9153	70	7	Maine	York
230312002		43.343056	-70.471389	2009	74	67.3	186103	0.9103	85	11	Maine	York
230313002		43.083333	-70.75	2009	-7	-9	185100	0.909	85	11	Maine	York
240030014		38.9025	-76.653056	2009	80	71.7	155053	0.8964	85	13	Maryland	Anne Arundel
240030019		39.101111	-76.729444	2009	-7	-9	154054	0.9099	85	16		
240051007		39.460833	-76.631111	2009	75	67.7	154058	0.9028	85	11	Maryland	Baltimore
240053001		39.310833	-76.474444	2009	78	71.6	156057	0.919	85	36	Maryland	Baltimore
240090010		38.54	-76.583889	2009	-7	-9	156050	0.9286	85	23		
240090011		38.536722	-76.617194	2009	74	68.8	156049	0.9305	85	21	Maryland	Calvert
240130001		39.444167	-77.041667	2009	78	69.5	151057	0.8911	79	10	Maryland	Carroll
240150003		39.701111	-75.86	2009	84	76.1	159061	0.9067	83	12	Maryland	Cecil
240170010		38.504167	-76.811944	2009	75	69.3	155049	0.9247	83	10	Maryland	Charles
240210037		39.408056	-77.375833	2009	76	67.5	149056	0.8888	79	10	Maryland	Frederick
240230002		39.70595	-79.012	2009	71	65.9	137056	0.9291	70	7	Maryland	Garrett
240251001		39.41	-76.296667	2009	87	79	157058	0.909	85	31	Maryland	Harford
240259001		39.563333	-76.203889	2009	82	74.4	157059	0.9082	85	27	Maryland	Harford
240290002		39.305	-75.797333	2009	78	70.1	160058	0.899	85	13	Maryland	Kent
240313001		39.114444	-77.106944	2009	-7	-9	152054	0.8845	84	10	Maryland	Montgomery
240330002		39.02	-76.827778	2009	-7	-9	154053	0.8938	85	11		
240330030		39.055277	-76.878333	2009	78	69.8	153054	0.8954	85	11	Maryland	Prince George's
240338001		38.851667	-76.932778	2009	-7	-9	153052	0.8929	85	11		
240338003		38.81194	-76.74417	2009	78	70.6	155052	0.9054	84	12	Maryland	Prince George's
240430009		39.565556	-77.721944	2009	73	66.6	146057	0.9133	72	11	Maryland	Washington
245100053		39.288889	-76.554444	2009	-7	-9	155056	0.9192	85	41		
245100054		39.32889	-76.5525	2009	67	60.7	155057	0.9074	85	22	Maryland	Baltimore (City)
250010002		41.9755706	-70.0233312	2009	76	70.2	193092	0.9242	85	12	Massachusetts	Barnstable
250034002		42.6366797	-73.1673285	2009	-7	-9	171092	0.9145	70	8	Massachusetts	Berkshire
250051002		41.6332778	-70.8791617	2009	74	69.4	188087	0.939	85	11	Massachusetts	Bristol
250051005		42.063056	-71.148889	2009	-7	-9	185091	0.9283	80	10		
250070001		41.3304803	-70.7853612	2009	-7	-9	190085	0.9356	85	10	Massachusetts	Dukes
250090005		42.709444	-71.146389	2009	-7	-9	184096	0.9093	77	10		

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250092006		42.4746711	-70.9713576	2009	79	73.8	185095	0.9352	85	10	Massachusetts	Essex
250094004		42.790268	-70.8083495	2009	-7	-9	186098	0.9149	85	17	Massachusetts	Essex
250095005		42.7707696	-71.1022593	2009	77	69.3	184097	0.9001	78	10	Massachusetts	Essex
250130003		42.061667	-72.678056	2009	-7	-9	175088	0.9189	77	11		
250130008		42.1943805	-72.5551117	2009	84	76.6	176089	0.912	80	10	Massachusetts	Hampden
250150103		42.4005787	-72.5231091	2009	74	67.7	175091	0.9154	77	11	Massachusetts	Hampshire
250154002		42.2982787	-72.3339036	2009	80	72.8	177090	0.9102	79	10	Massachusetts	Hampshire
250170009		42.62668	-71.362068	2009	74	67	182095	0.906	74	10	Massachusetts	Middlesex
250171102		42.413574	-71.4827748	2009	77	69.7	182093	0.9059	75	10	Massachusetts	Middlesex
250174003		42.383611	-71.213889	2009	-7	-9	184093	0.9243	77	10		
250213003		42.2116739	-71.1138645	2009	78	73.4	185092	0.9422	79	11	Massachusetts	Norfolk
250250041		42.3171723	-70.9661588	2009	-7	-9	186093	0.9278	85	12	Massachusetts	Suffolk
250250042		42.3294	-71.0825	2009	65	61.1	185093	0.9408	85	10	Massachusetts	Suffolk
250251003		42.401667	-71.031111	2009	-7	-9	185094	0.9369	85	10		
250270015		42.2741769	-71.8752888	2009	81	73.8	180091	0.9113	75	10	Massachusetts	Worcester
250270024		42.0996771	-71.6194819	2009	-7	-9	182090	0.91	75	10	Massachusetts	Worcester
260050003		42.7677855	-86.1485772	2009	81	75.6	84076	0.9338	85	12	Michigan	Allegan
260190003		44.6169431	-86.1094078	2009	72	66.4	82093	0.9234	76	10	Michigan	Benzie
260210014		42.1977895	-86.309694	2009	76	72.4	83071	0.9532	85	10	Michigan	Berrien
260270003		41.8955698	-86.0016287	2009	75	68.5	86069	0.9142	70	7	Michigan	Cass
260370001		42.7983394	-84.3937953	2009	71	64.8	96078	0.9139	70	7	Michigan	Clinton
260490021		43.0472242	-83.6701591	2009	72	66.4	100081	0.9223	70	10	Michigan	Genesee
260492001		43.1683363	-83.4615407	2009	74	67.9	101083	0.9184	70	10	Michigan	Genesee
260630007		43.8363879	-82.6428999	2009	72	66.5	106089	0.9244	72	10	Michigan	Huron
260650012		42.7386179	-84.5346332	2009	73	66.3	95078	0.9084	70	6	Michigan	Ingham
260770008		42.2780667	-85.5418899	2009	74	67.5	89072	0.9127	70	5	Michigan	Kalamazoo
260810020		42.984173	-85.6713387	2009	72	65.1	87079	0.9055	72	10	Michigan	Kent
260810022		43.1766718	-85.4166078	2009	75	67.5	88081	0.9012	70	10	Michigan	Kent
260890001		45.0288979	-85.6291465	2009	-7	-9	85098	0.9178	71	10	Michigan	Leelanau
260910007		41.9955677	-83.9465594	2009	73	67.1	100071	0.9201	70	5	Michigan	Lenawee
260990009		42.7313941	-82.7934628	2009	79	72.6	106079	0.9197	75	10	Michigan	Macomb
260991003		42.5133399	-83.0059706	2009	78	72.8	105077	0.9335	73	10	Michigan	Macomb
261010922		44.3070001	-86.2426486	2009	72	66.1	82090	0.9191	75	10	Michigan	Manistee
261050007		43.9533344	-86.2944146	2009	73	66.6	82087	0.9127	77	10	Michigan	Mason
261130001		44.3105554	-84.8918653	2009	69	63	90092	0.9142	70	6	Michigan	Missaukee

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261210039		43.2780606	-86.3110825	2009	77	71.7	82081	0.9316	85	14	Michigan	Muskegon
261250001		42.4630634	-83.1831987	2009	77	72	104076	0.9361	70	10	Michigan	Oakland
261390005		42.8944507	-85.852734	2009	75	68.4	86078	0.9121	73	11	Michigan	Ottawa
261470005		42.9533363	-82.4562288	2009	75	68	108082	0.9067	74	10	Michigan	St. Clair
261530001		46.2888772	-85.9502269	2009	70	-9	81109	-9	70	3	Michigan	Schoolcraft
261610008		42.2405655	-83.5996022	2009	70	63.8	102074	0.9121	70	9	Michigan	Washtenaw
261630001		42.2286201	-83.2082	2009	69	63.1	104074	0.9154	73	10	Michigan	Wayne
261630016		42.3578081	-83.0960329	2009	-7	-9	105075	0.9151	72	10		
261630019		42.4308404	-83.0001375	2009	80	74	105076	0.9252	72	11	Michigan	Wayne
270031001		45.40184	-93.20306	2009	-7	-9	35097	-9	70	1	Minnesota	Anoka
270031002		45.13768	-93.20772	2009	64	-9	35094	-9	70	1	Minnesota	Anoka
270052013		46.851811	-95.846272	2009	-7	-9	18110	-9	70	0	Minnesota	Becker
270177416		46.70527	-92.52377	2009	-7	-9	39109	-9	70	0	Minnesota	Carlton
270353204		46.39674	-94.1303	2009	-7	-9	29106	-9	70	0	Minnesota	Crow Wing
270376018		44.75	-92.887778	2009	-7	-9	38091	-9	70	2		
270495302		44.473754	-93.012611	2009	-7	-9	37088	-9	70	1	Minnesota	Goodhue
270750005		47.948622	-91.495574	2009	-7	-9	45121	-9	70	0	Minnesota	Lake
270834210		44.4438	-95.81789	2009	-7	-9	18088	-9	70	0	Minnesota	Lyon
270953051		46.2053	-93.75945	2009	-7	-9	31104	-9	70	1	Minnesota	Mille Lacs
271095008		43.996908	-92.450366	2009	-7	-9	41084	-9	70	0	Minnesota	Olmsted
271370034		48.412778	-92.829167	2009	-7	-9	36125	-9	70	0	Minnesota	Saint Louis
271377550		46.81826	-92.08936	2009	-7	-9	42110	-9	70	0	Minnesota	Saint Louis
271390505		44.791437	-93.512534	2009	-7	-9	33091	-9	70	0	Minnesota	Scott
271453052		45.549839	-94.13345	2009	-7	-9	29098	-9	70	1	Minnesota	Stearns
271636015		45.11728	-92.85532	2009	-7	-9	38094	-9	70	0	Minnesota	Washington
271713201		45.20916	-93.66921	2009	-7	-9	32095	-9	70	1	Minnesota	Wright
280330002		34.82166	-89.98783	2009	76	68.9	63001	0.907	74	10	Mississippi	DeSoto
290030001		39.9544	-94.849	2009	-7	-9	26046	0.9029	70	7	Missouri	Andrew
290190011		39.07811	-92.31613	2009	-7	-9	44039	-9	70	2	Missouri	Boone
290270002		38.70608	-92.09308	2009	-7	-9	46036	-9	70	1	Missouri	Callaway
290370003		38.770278	-94.58	2009	67	-9	28035	-9	70	3	Missouri	Cass
290390001		37.70086	-94.03481	2009	67	61	32026	0.9113	70	5	Missouri	Cedar
290470003		39.4166998	-94.2835644	2009	72	65.7	30041	0.913	74	10	Missouri	Clay
290470005		39.3030901	-94.376623	2009	74	67.8	29040	0.9171	79	10	Missouri	Clay
290470006		39.3322553	-94.5807967	2009	76	69.9	28041	0.9209	77	10	Missouri	Clay

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290470025		39.1839244	-94.4977375	2009	-7	-9	28039	0.9208	79	10		
290490001		39.5306	-94.556	2009	76	69.6	28042	0.9168	74	11	Missouri	Clinton
290770026		37.1284023	-93.2618593	2009	-7	-9	38021	0.8691	70	6		
290770036		37.2620109	-93.2982498	2009	69	61	38022	0.8841	70	5	Missouri	Greene
290770042		37.3195101	-93.204635	2009	-7	-9	38022	0.8841	70	5	Missouri	Greene
290950036		38.8561508	-94.5507941	2009	-7	-9	28036	0.907	71	11		
290970003		37.1982662	-94.3080032	2009	-7	-9	30021	0.934	70	9	Missouri	Jasper
290970004		37.238472	-94.42475	2009	-7	-9	29021	0.9365	70	9	Missouri	Jasper
290990012		38.43783	-90.3614922	2009	-7	-9	58034	0.9246	81	10	Missouri	Jefferson
290990019		38.4486328	-90.3985404	2009	-7	-9	58034	0.9246	81	10	Missouri	Jefferson
291130003		39.0447	-90.8647	2009	75	68.6	54039	0.9147	76	10	Missouri	Lincoln
291370001		39.4730922	-91.789318	2009	67	-9	48043	-9	70	3	Missouri	Monroe
291570001		37.6992	-89.6909	2009	74	67.8	64027	0.9168	70	7	Missouri	Perry
291650023		39.3000335	-94.7002444	2009	-7	-9	27040	0.9169	77	11		
291831002		38.8725459	-90.2264885	2009	78	69.6	59038	0.8929	85	10	Missouri	Saint Charles
291831004		38.902222	-90.446944	2009	76	69.1	57038	0.9096	81	10	Missouri	Saint Charles
291860005		37.896944	-90.422222	2009	76	68.9	58029	0.9078	70	9	Missouri	Sainte Genevieve
291890004		38.5325	-90.382778	2009	-7	-9	58035	0.9234	83	10	Missouri	Saint Louis
291890005		38.4902	-90.7052	2009	-7	-9	56034	0.9145	76	10	Missouri	Saint Louis
291890006		38.6136603	-90.4959408	2009	-7	-9	57035	0.9134	80	10		
291890014		38.7109	-90.4759	2009	-7	-9	57036	0.921	80	10	Missouri	Saint Louis
291893001		38.641438	-90.345936	2009	-7	-9	58036	0.9104	85	10		
291895001		38.7661583	-90.2859342	2009	-7	-9	59037	0.9008	85	12		
291897003		38.7209649	-90.3671318	2009	-7	-9	58036	0.9104	85	10		
295100007		38.5425505	-90.2637112	2009	-7	-9	59035	0.9244	83	11		
295100072		38.6242164	-90.1987092	2009	-7	-9	59036	0.9177	85	12		
295100085		38.656349	-90.1981983	2009	75	68.8	59036	0.9177	85	12	Missouri	St. Louis City
295100086		38.6722707	-90.2389886	2009	-7	-9	59036	0.9177	85	12	Missouri	St. Louis City
310550028		41.2075	-95.9475	2009	59	-9	18058	-9	70	4	Nebraska	Douglas
310550032		41.360278	-96.024722	2009	52	-9	17059	-9	70	3	Nebraska	Douglas
310550035		41.306111	-95.960278	2009	60	-9	18059	-9	70	3	Nebraska	Douglas
311090016		40.984722	-96.677222	2009	52	-9	13056	-9	70	4	Nebraska	Lancaster
330012004		43.565278	-71.495833	2009	69	63.5	179103	0.9217	70	5	New Hampshire	Belknap
330031002		43.979444	-71.134167	2009	-7	-9	180108	-9	70	4		
330050007		42.930556	-72.277778	2009	67	61.2	176096	0.9144	70	8	New Hampshire	Cheshire

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330074001		44.278333	-71.3025	2009	-7	-9	178110	-9	70	1	New Hampshire	Coos
330074002		44.290556	-71.225	2009	61	-9	179110	-9	70	3	New Hampshire	Coos
330074003		45.051111	-71.391944	2009	-7	-9	176117	-9	70	0	New Hampshire	Coos
330090008		44.083889	-72.01	2009	-7	-9	174107	-9	70	0		
330090010		43.62957	-72.226083	2009	66	-9	174102	-9	70	3	New Hampshire	Grafton
330110016		42.992778	-71.459444	2009	-7	-9	181098	0.9066	71	10		
330110020		43.000556	-71.468056	2009	66	59.8	181098	0.9066	71	10	New Hampshire	Hillsborough
330111011		42.720377	-71.523083	2009	71	64.3	181096	0.9058	72	10	New Hampshire	Hillsborough
330115001		42.861901	-71.878613	2009	76	69.2	178096	0.9113	70	10	New Hampshire	Hillsborough
330131007		43.218491	-71.45827	2009	68	61.7	180100	0.9088	70	9	New Hampshire	Merrimack
330150012		43.002222	-70.745833	2009	-7	-9	185100	0.909	85	11		
330150013		43	-71.2	2009	-7	-9	182099	0.9122	71	11		
330150014		43.075278	-70.748056	2009	72	65.4	185100	0.909	85	11	New Hampshire	Rockingham
330150016		43.047475	-70.713839	2009	76	69	185100	0.909	85	11	New Hampshire	Rockingham
330173002		43.283333	-70.929444	2009	-7	-9	183102	0.9176	71	11		
330190003		43.364444	-72.338333	2009	-7	-9	174100	-9	70	3	New Hampshire	Sullivan
340010005		39.5302561	-74.4602811	2009	-7	-9	169062	0.9298	85	19	New Jersey	Atlantic
340010006		39.464872	-74.448736	2009	73	68	169061	0.9324	85	27	New Jersey	Atlantic
340030005		40.89858	-74.0299	2009	-7	-9	169075	0.9427	85	12	New Jersey	Bergen
340030006		40.870422	-73.992053	2009	-7	-9	169075	0.9427	85	12	New Jersey	Bergen
340070003		39.923042	-75.097617	2009	-7	-9	164064	0.9307	85	12	New Jersey	Camden
340071001		39.68425	-74.861491	2009	81	74.2	166063	0.9163	85	10	New Jersey	Camden
340110007		39.422273	-75.025204	2009	78	71.4	165060	0.9162	84	10	New Jersey	Cumberland
340130003		40.721019	-74.192808	2009	-7	-9	168073	0.9321	85	15	New Jersey	Essex
340130011		40.726667	-74.144167	2009	-7	-9	168073	0.9321	85	15		
340130016		40.722222	-74.146944	2009	-7	-9	168073	0.9321	85	15		
340150002		39.800339	-75.212119	2009	83	76.9	163063	0.9267	84	10	New Jersey	Gloucester
340170006		40.67025	-74.126081	2009	80	75.5	169073	0.9439	85	16	New Jersey	Hudson
340190001		40.515253	-74.806753	2009	81	73.5	164070	0.9084	84	10	New Jersey	Hunterdon
340210005		40.2830917	-74.742644	2009	81	73.6	165068	0.9097	85	16	New Jersey	Mercer
340230011		40.462182	-74.429439	2009	80	73.4	167070	0.9182	85	16	New Jersey	Middlesex
340250005		40.278461	-74.005343	2009	81	75.7	170069	0.9356	85	23	New Jersey	Monmouth
340273001		40.787628	-74.676301	2009	79	72.4	165073	0.917	81	11	New Jersey	Morris
340290006		40.064847	-74.444058	2009	80	73.2	168067	0.9157	85	14	New Jersey	Ocean
340315001		41.052195	-74.256338	2009	76	70.1	167076	0.9225	84	10	New Jersey	Passaic

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360010012		42.68075	-73.75733	2009	72	66.7	167091	0.9267	70	10	New York	Albany
360050080		40.83606	-73.92009	2009	-7	-9	170075	0.9493	85	18		
360050083		40.86585	-73.88083	2009	-7	-9	170075	0.9493	85	18	New York	Bronx
360050110		40.81618	-73.902	2009	72	68.9	170074	0.9581	85	15	New York	Bronx
360050133		40.8679	-73.87809	2009	73	69.2	170075	0.9493	85	18	New York	Bronx
360130006		42.49963	-79.31881	2009	79	73.1	130081	0.9257	85	12	New York	Chautauqua
360130011		42.29071	-79.58961	2009	74	68.6	129079	0.9271	85	13	New York	Chautauqua
360150003		42.11096	-76.80221	2009	69	-9	148081	-9	70	1	New York	Chemung
360270007		41.78555	-73.74136	2009	75	70.2	169083	0.9368	77	10	New York	Dutchess
360290002		42.99328	-78.77153	2009	76	70.5	133086	0.9284	76	10	New York	Erie
360310002		44.36608	-73.90312	2009	76	-9	162106	-9	70	3	New York	Essex
360310003		44.39308	-73.8589	2009	71	-9	162106	-9	70	3	New York	Essex
360337003		44.980577	-74.695005	2009	-7	-9	155110	-9	70	2	New York	Franklin
360410005		43.44957	-74.51625	2009	70	-9	160097	-9	70	2	New York	Hamilton
360430005		43.68578	-74.98538	2009	70	-9	156098	-9	70	2	New York	Herkimer
360450002		44.08747	-75.97316	2009	74	70.2	149100	0.9496	72	12	New York	Jefferson
360530006		42.73046	-75.78444	2009	71	-9	153088	-9	70	1	New York	Madison
360551007		43.14618	-77.54817	2009	72	67.5	141089	0.9376	70	8	New York	Monroe
360610010		40.739444	-73.986111	2009	-7	-9	170074	0.9581	85	15		
360610135		40.81976	-73.94825	2009	-7	-9	170074	0.9581	85	15	New York	New York
360631006		43.22386	-78.47888	2009	73	68.8	134089	0.9431	76	10	New York	Niagara
360650004		43.30268	-75.71978	2009	64	58.4	152094	0.9139	70	5	New York	Oneida
360671015		43.05235	-76.05921	2009	70	63.9	151091	0.9138	70	6	New York	Onondaga
360715001		41.52375	-74.21534	2009	76	69.4	166080	0.9134	74	10	New York	Orange
360750003		43.28428	-76.46324	2009	71	66.5	147092	0.9373	72	10	New York	Oswego
360790005		41.45589	-73.70977	2009	78	72.2	170080	0.9266	82	10	New York	Putnam
360810098		40.7842	-73.84757	2009	-7	-9	170074	0.9581	85	15		
360810124		40.73614	-73.82153	2009	74	69.6	171074	0.9418	85	18	New York	Queens
360830004		42.78189	-73.46363	2009	73	67.4	168093	0.9242	70	10	New York	Rensselaer
360850067		40.59664	-74.12525	2009	74	69.3	169072	0.9366	85	19	New York	Richmond
360870005		41.18208	-74.02819	2009	-7	-9	168077	0.9269	83	11	New York	Rockland
360910004		43.01209	-73.6489	2009	75	69.4	166094	0.9256	70	8	New York	Saratoga
360930003		42.79901	-73.9389	2009	67	61.5	165092	0.9182	70	7	New York	Schenectady
361010003		42.09142	-77.20978	2009	68	-9	145080	-9	70	1	New York	Steuben
361030002		40.74529	-73.41919	2009	81	76.1	173075	0.9404	85	22	New York	Suffolk

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361030004		40.96078	-72.71238	2009	79	73.1	178078	0.926	85	22	New York	Suffolk
361030009		40.82799	-73.05754	2009	84	78.2	176076	0.9318	85	27	New York	Suffolk
361111005		42.14403	-74.49431	2009	69	62.6	163085	0.9078	70	6	New York	Ulster
361173001		43.23086	-77.17136	2009	70	66.1	143091	0.9447	77	11	New York	Wayne
361192004		41.05192	-73.76366	2009	83	77.5	170077	0.9342	85	18	New York	Westchester
370030004		35.928999	-81.189758	2009	73	65.4	128019	0.8963	70	8	North Carolina	Alexander
370110002		35.972222	-81.933056	2009	65	-9	123019	-9	70	4	North Carolina	Avery
370210030		35.500102	-82.5998603	2009	69	61	118014	0.8844	70	10	North Carolina	Buncombe
370270003		35.935833	-81.530278	2009	71	63.8	126019	0.8993	70	6	North Carolina	Caldwell
370290099		36.326907	-76.121575	2009	-7	-9	164030	0.9267	81	10		
370330001		36.307033	-79.467417	2009	76	67.6	140025	0.8906	71	10	North Carolina	Caswell
370370004		35.757222	-79.159722	2009	69	60.8	143020	0.8817	74	11	North Carolina	Chatham
370510008		35.158686	-78.728035	2009	73	64.7	148016	0.8864	73	11	North Carolina	Cumberland
370511003		34.968889	-78.9625	2009	74	65.9	146014	0.8908	72	10	North Carolina	Cumberland
370590002		35.809289	-80.559115	2009	78	69.7	133019	0.8943	73	10	North Carolina	Davie
370610002		34.954823	-77.960781	2009	-7	-9	154015	0.8947	70	12		
370630013		36.035556	-78.904167	2009	-7	-9	145023	0.8774	75	13		
370630015		35.99194	-78.89639	2009	74	64.9	145023	0.8774	75	13	North Carolina	Durham
370650099		35.988333	-77.582778	2009	73	65.8	154025	0.902	71	10	North Carolina	Edgecombe
370670022		36.110556	-80.226667	2009	76	66.4	135022	0.874	74	10	North Carolina	Forsyth
370670027		36.236389	-80.410556	2009	-7	-9	133023	0.8912	71	11		
370670028		36.203056	-80.215833	2009	73	64.4	135023	0.8828	73	13	North Carolina	Forsyth
370670030		36.026	-80.342	2009	72	64.5	134021	0.8971	72	15	North Carolina	Forsyth
370671008		36.050833	-80.143889	2009	75	65.9	136022	0.8793	75	10	North Carolina	Forsyth
370690001		36.096189	-78.463719	2009	74	64.9	148025	0.8777	72	10	North Carolina	Franklin
370750001		35.25793	-83.79562	2009	-7	-9	110010	0.8929	72	11	North Carolina	Graham
370770001		36.141111	-78.768056	2009	77	67.3	145025	0.875	73	13	North Carolina	Granville
370810011		36.113333	-79.703889	2009	-7	-9	139023	0.8809	73	10		
370810013		36.109167	-79.801111	2009	79	69.4	138023	0.8792	73	10	North Carolina	Guilford
370870004		35.505278	-82.964722	2009	68	60.7	116013	0.8931	70	8	North Carolina	Haywood
370870035		35.379167	-82.7925	2009	74	66.5	117012	0.8988	70	10	North Carolina	Haywood
370870036		35.59	-83.0775	2009	74	66	115014	0.8921	70	9	North Carolina	Haywood
370990005		35.524444	-83.236111	2009	-7	-9	114013	0.8961	70	9	North Carolina	Jackson
371010002		35.590833	-78.461944	2009	73	64	149020	0.8768	76	10	North Carolina	Johnston
371070004		35.231459	-77.568792	2009	71	63.6	156018	0.8964	71	12	North Carolina	Lenoir

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371090004		35.438556	-81.27675	2009	76	69.6	128015	0.9161	72	14	North Carolina	Lincoln
371170001		35.81069	-76.89782	2009	71	65.1	160024	0.9182	71	11	North Carolina	Martin
371190041		35.2401	-80.785683	2009	82	73.5	132013	0.8974	82	10	North Carolina	Mecklenburg
371191005		35.1131637	-80.9195317	2009	76	69.1	131012	0.9101	78	12	North Carolina	Mecklenburg
371191009		35.347222	-80.695	2009	86	76.3	133015	0.8882	81	10	North Carolina	Mecklenburg
371290002		34.364167	-77.838611	2009	-7	-9	156010	0.9143	75	10	North Carolina	New Hanover
371310002		36.48438	-77.61998	2009	-7	-9	153029	0.9115	72	11		
371450003		36.306965	-79.09197	2009	73	64.6	143026	0.8861	73	10	North Carolina	Person
371470006		35.63861	-77.35805	2009	-7	-9	157022	0.9013	72	10	North Carolina	Pitt
371470099		35.583333	-77.598889	2009	-7	-9	155021	0.8905	71	14	North Carolina	Pitt
371510004		35.830556	-79.865278	2009	-7	-9	138020	0.8778	74	10		
371570099		36.308889	-79.859167	2009	78	69.5	137024	0.8919	72	10	North Carolina	Rockingham
371590021		35.551868	-80.395039	2009	-7	-9	135017	0.8919	73	13	North Carolina	Rowan
371590022		35.534482	-80.66756	2009	83	73.8	133016	0.8896	77	10	North Carolina	Rowan
371730002		35.435509	-83.443697	2009	64	57.8	112012	0.9039	70	10	North Carolina	Swain
371790003		34.973889	-80.540833	2009	76	67.2	134011	0.885	76	14	North Carolina	Union
371830014		35.856111	-78.574167	2009	75	65.3	147022	0.8719	76	10	North Carolina	Wake
371830015		35.790023	-78.619723	2009	-7	-9	147022	0.8719	76	10		
371830016		35.596944	-78.7925	2009	75	65.3	146020	0.8716	76	11	North Carolina	Wake
371830017		35.676389	-78.535278	2009	-7	-9	148021	0.8732	76	11		
371990003		35.737735	-82.285229	2009	-7	-9	120016	0.8882	70	5		
371990004		35.772833	-82.266139	2009	-7	-9	120016	0.8882	70	5	North Carolina	Yancey
380171004		46.933754	-96.85535	2009	55	-9	11111	-9	70	0	North Dakota	Cass
380910001		47.599703	-97.8990088	2009	-7	-9	5117	-9	70	0		
390030002		40.772222	-84.051944	2009	-7	-9	101060	-9	70	2		
390030009		40.771172	-84.052797	2009	72	-9	101060	-9	70	2	Ohio	Allen
390071001		41.959444	-80.5725	2009	80	73.7	123075	0.9223	85	14	Ohio	Ashtabula
390090004		39.307978	-82.118247	2009	72	64.2	116049	0.8928	70	9	Ohio	Athens
390170004		39.383333	-84.544167	2009	78	72.4	99047	0.9286	82	10	Ohio	Butler
390171004		39.53	-84.3925	2009	82	75.7	100048	0.9235	82	10	Ohio	Butler
390230001		40.000833	-83.804444	2009	74	66.8	103053	0.9035	72	10	Ohio	Clark
390230003		39.855556	-83.9975	2009	75	69	102052	0.9205	76	10	Ohio	Clark
390250022		39.082319	-84.144193	2009	75	71.7	102045	0.9573	79	11	Ohio	Clermont
390271002		39.43	-83.788611	2009	76	68.4	104048	0.9007	71	10	Ohio	Clinton
390350034		41.555	-81.575	2009	77	70.7	116070	0.9189	85	12	Ohio	Cuyahoga

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390350064		41.361667	-81.864722	2009	72	67.8	115068	0.9429	75	11	Ohio	Cuyahoga
390355002		41.536667	-81.459167	2009	77	70.8	117070	0.9195	85	12	Ohio	Cuyahoga
390410002		40.356638	-83.063962	2009	75	67.6	108057	0.9023	71	11	Ohio	Delaware
390490028		39.914167	-82.957222	2009	-7	-9	109053	0.9144	70	11	Ohio	Franklin
390490029		40.086667	-82.815556	2009	81	73.2	110055	0.9048	72	12	Ohio	Franklin
390490037		39.965075	-82.955266	2009	73	66.5	109054	0.9112	71	11	Ohio	Franklin
390490081		40.087778	-82.959722	2009	71	64.2	109055	0.9053	72	11	Ohio	Franklin
390550004		41.515	-81.249444	2009	72	65.2	119070	0.9064	76	10	Ohio	Geauga
390570006		39.665556	-83.943333	2009	74	66.9	103050	0.905	74	11	Ohio	Greene
390610006		39.278499	-84.365974	2009	82	76.7	100046	0.9363	84	10	Ohio	Hamilton
390610010		39.214931	-84.690723	2009	76	70.5	98045	0.9281	79	11	Ohio	Hamilton
390610040		39.128611	-84.504167	2009	80	75.6	100045	0.9452	81	11	Ohio	Hamilton
390810017		40.366104	-80.615002	2009	72	65.2	125060	0.9066	71	11	Ohio	Jefferson
390830002		40.309722	-82.691944	2009	74	66.4	111057	0.8973	72	11	Ohio	Knox
390850003		41.673056	-81.4225	2009	74	68	117071	0.9193	85	15	Ohio	Lake
390850007		41.7268211	-81.2419586	2009	75	68.7	118072	0.916	85	15	Ohio	Lake
390853002		41.7225	-81.241944	2009	-7	-9	118072	0.916	85	15		
390870006		38.520278	-82.666667	2009	73	66.5	113041	0.9122	73	11	Ohio	Lawrence
390870011		38.629167	-82.4575	2009	72	64.7	115042	0.8989	73	10	Ohio	Lawrence
390890005		40.026226	-82.433269	2009	73	65.2	113055	0.8943	72	10	Ohio	Licking
390911001		40.303056	-83.553333	2009	-7	-9	105056	0.9069	70	9		
390930018		41.420882	-82.095729	2009	72	66.9	113068	0.9299	84	11	Ohio	Lorain
390950024		41.644167	-83.546667	2009	72	66.5	103069	0.9246	77	10	Ohio	Lucas
390950027		41.494722	-83.718611	2009	72	-9	102067	-9	70	4	Ohio	Lucas
390950034		41.675556	-83.306944	2009	74	68.2	104069	0.9225	82	10	Ohio	Lucas
390950081		41.719444	-83.475	2009	-7	-9	103069	0.9246	77	10	Ohio	Lucas
390970007		39.788611	-83.475833	2009	74	66.8	106052	0.9029	70	6	Ohio	Madison
390990013		41.096111	-80.658611	2009	71	64.4	123067	0.908	74	10	Ohio	Mahoning
391030003		41.102778	-81.911667	2009	70	63.1	115065	0.9022	70	9	Ohio	Medina
391030004		41.0604	-81.9239	2009	-7	-9	115065	0.9022	70	9	Ohio	Medina
391090005		40.084722	-84.114722	2009	71	64.7	101054	0.9118	73	10	Ohio	Miami
391130019		39.813889	-84.195	2009	-7	-9	101051	0.9304	79	10		
391130037		39.7850341	-84.134402	2009	74	68.8	101051	0.9304	79	10	Ohio	Montgomery
391331001		41.1825	-81.330278	2009	72	64.6	119067	0.8976	71	10	Ohio	Portage
391351001		39.835556	-84.720833	2009	70	64.5	97051	0.9225	71	10	Ohio	Preble

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391510016		40.827778	-81.378611	2009	75	67.4	119063	0.8995	70	8	Ohio	Stark
391510022		40.7126755	-81.598257	2009	-7	-9	118062	0.9009	70	9	Ohio	Stark
391510023		40.67173	-81.64091	2009	-7	-9	117062	0.901	70	9	Ohio	Stark
391511009		40.870278	-81.331667	2009	-7	-9	119064	0.8999	70	10		
391514005		40.930833	-81.123611	2009	75	67	121065	0.8938	72	10	Ohio	Stark
391530020		41.106111	-81.503889	2009	80	72.4	118066	0.9053	70	11	Ohio	Summit
391550009		41.453889	-80.591667	2009	75	67.3	123070	0.8978	73	13	Ohio	Trumbull
391550011		41.240077	-80.663142	2009	76	68.9	123068	0.9078	75	10	Ohio	Trumbull
391591001		40.4925	-83.264444	2009	-7	-9	106058	0.9019	71	10		
391650007		39.427797	-84.202208	2009	82	76.5	101048	0.9341	82	10	Ohio	Warren
391670004		39.431667	-81.460278	2009	77	68.2	121051	0.8867	71	10	Ohio	Washington
391730003		41.378056	-83.611667	2009	74	67.9	103066	0.9184	70	5	Ohio	Wood
400019009		35.750735	-94.669697	2009	68	-9	28008	-9	70	1	Oklahoma	Adair
400159008		35.111944	-98.252778	2009	-7	-9	1001	-9	70	0	Oklahoma	Caddo
400170101		35.479215	-97.751503	2009	71	65.7	5005	0.9257	70	16	Oklahoma	Canadian
400219002		35.85408	-94.985964	2009	68	-9	26008	-9	70	3	Oklahoma	Cherokee
400270049		35.320105	-97.484099	2009	69	63.1	7003	0.9146	70	5	Oklahoma	Cleveland
400370144		36.105481	-96.361196	2009	71	66.1	15011	0.9315	72	10	Oklahoma	Creek
400719003		36.662778	-97.074444	2009	-7	-9	10016	0.9175	70	10		
400719010		36.956222	-97.03135	2009	70	64.2	10018	0.918	70	9	Oklahoma	Kay
400819005		35.6725	-96.657222	2009	-7	-9	13007	-9	70	3	Oklahoma	Lincoln
400871073		35.159649	-97.473794	2009	68	-9	7002	-9	70	4	Oklahoma	McClain
400979014		36.228408	-95.249943	2009	69	64	24012	0.9278	75	10	Oklahoma	Mayes
401019019		35.772608	-95.269908	2009	-7	-9	23008	0.936	75	10	Oklahoma	Muskogee
401090033		35.477036	-97.494309	2009	73	67.1	7005	0.9199	71	11	Oklahoma	Oklahoma
401090096		35.477801	-97.303044	2009	74	67.9	8005	0.9185	70	9	Oklahoma	Oklahoma
401091037		35.614131	-97.475083	2009	75	69	7006	0.921	73	10	Oklahoma	Oklahoma
401159004		36.922222	-94.838889	2009	67	62.8	26018	0.9374	74	10	Oklahoma	Ottawa
401359015		35.581174	-94.830059	2009	66	-9	27006	-9	70	1	Oklahoma	Sequoyah
401430137		36.357438	-95.999247	2009	75	69.9	18013	0.9322	78	12	Oklahoma	Tulsa
401430174		35.953708	-96.004975	2009	67	63.1	18009	0.9423	70	9	Oklahoma	Tulsa
401430178		36.133802	-95.764537	2009	72	67.1	20011	0.9321	76	11	Oklahoma	Tulsa
401431127		36.204902	-95.976537	2009	71	66.2	18012	0.9337	78	11	Oklahoma	Tulsa
420010002		39.93	-77.25	2009	73	65.7	149061	0.9004	73	10	Pennsylvania	Adams
420030008		40.465556	-79.961111	2009	77	69.7	129062	0.9061	77	10	Pennsylvania	Allegheny

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420030010		40.4455765	-80.0161549	2009	74	67	129062	0.9061	77	10	Pennsylvania	Allegheny
420030067		40.381944	-80.185556	2009	73	66.6	128061	0.9129	73	10	Pennsylvania	Allegheny
420030088		40.472222	-79.82	2009	-7	-9	130062	0.9083	78	10		
420031005		40.617222	-79.732222	2009	82	74.2	131064	0.9053	78	11	Pennsylvania	Allegheny
420050001		40.8141826	-79.5647498	2009	77	70	131066	0.9096	75	10	Pennsylvania	Armstrong
420070002		40.5625202	-80.5039485	2009	73	65.9	125062	0.9035	73	12	Pennsylvania	Beaver
420070005		40.684722	-80.359722	2009	71	63.8	126063	0.8996	76	11	Pennsylvania	Beaver
420070014		40.7477959	-80.3164417	2009	73	65.4	126064	0.8964	76	10	Pennsylvania	Beaver
420110001		40.511111	-75.786111	2009	-7	-9	158068	0.9204	79	10		
420110006		40.51408	-75.789721	2009	-7	-9	158069	0.9208	77	10	Pennsylvania	Berks
420110009		40.320278	-75.926667	2009	-7	-9	157067	0.9191	79	11		
420110010		40.392694	-75.925222	2009	-7	-9	157067	0.9191	79	11	Pennsylvania	Berks
420110011		40.38335	-75.9686	2009	-7	-9	157067	0.9191	79	11	Pennsylvania	Berks
420130801		40.535278	-78.370833	2009	70	64.5	140065	0.9224	71	11	Pennsylvania	Blair
420170012		40.107222	-74.882222	2009	88	80.3	165066	0.9136	85	18	Pennsylvania	Bucks
420210011		40.309722	-78.915	2009	67	61.5	137062	0.9182	75	10	Pennsylvania	Cambria
420270100		40.811389	-77.877028	2009	70	64.4	143068	0.9205	70	7	Pennsylvania	Centre
420274000		40.774556	-77.622139	2009	-7	-9	145068	0.9176	70	6		
420290050		39.935667	-75.604306	2009	-7	-9	160064	0.9093	78	12		
420290100		39.8344606	-75.7682421	2009	77	69.8	159062	0.9069	80	14	Pennsylvania	Chester
420334000		41.1175	-78.526194	2009	71	65.1	138070	0.9178	70	8	Pennsylvania	Clearfield
420430401		40.245	-76.844722	2009	74	67.6	151064	0.9148	77	10	Pennsylvania	Dauphin
420431100		40.272222	-76.681389	2009	74	67.6	152065	0.9146	78	11	Pennsylvania	Dauphin
420450002		39.835556	-75.3725	2009	77	70.6	162063	0.9181	83	10	Pennsylvania	Delaware
420490003		42.14175	-80.038611	2009	75	69.5	126077	0.9275	85	14	Pennsylvania	Erie
420550001		39.961111	-77.475556	2009	69	62.6	147061	0.9079	72	10	Pennsylvania	Franklin
420590002		39.80933	-80.26567	2009	72	66.3	128056	0.9218	72	10	Pennsylvania	Greene
420630004		40.56333	-78.919972	2009	73	66.9	136064	0.9166	76	10	Pennsylvania	Indiana
420690101		41.479116	-75.578186	2009	71	63.8	157077	0.9	70	9	Pennsylvania	Lackawanna
420692006		41.442778	-75.623056	2009	71	63.8	157077	0.9	70	9	Pennsylvania	Lackawanna
420710007		40.046667	-76.283333	2009	77	70.7	155064	0.9187	82	10	Pennsylvania	Lancaster
420710012		40.043833	-76.1124	2009	-7	-9	157064	0.9173	78	10	Pennsylvania	Lancaster
420730015		40.9958484	-80.3464419	2009	69	62.9	126066	0.9117	73	14	Pennsylvania	Lawrence
420770004		40.611944	-75.4325	2009	76	69.8	160070	0.9193	78	10	Pennsylvania	Lehigh
420791100		41.209167	-76.003333	2009	66	59.9	155074	0.9089	71	11	Pennsylvania	Luzerne

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420791101		41.265556	-75.846389	2009	69	62.4	156075	0.9045	71	11	Pennsylvania	Luzerne
420810100		41.2508	-76.9238	2009	74	67.7	149073	0.9152	70	9	Pennsylvania	Lycoming
420810403		41.246111	-76.989722	2009	-7	-9	148073	0.9146	70	8		
420814000		41.334056	-77.449083	2009	-7	-9	145073	0.9168	70	5		
420850100		41.2150135	-80.4847787	2009	77	69.9	124068	0.9083	74	10	Pennsylvania	Mercer
420890001		40.8600037	-75.4296144	2009	-7	-9	159072	0.9221	75	10		
420890002		41.08306	-75.32328	2009	69	63.6	160074	0.9225	75	11	Pennsylvania	Monroe
420910013		40.112222	-75.309167	2009	79	73	162066	0.9248	82	12	Pennsylvania	Montgomery
420950025		40.628056	-75.341111	2009	75	68.5	161070	0.9145	79	10	Pennsylvania	Northampton
420950100		40.676667	-75.216667	2009	-7	-9	161071	0.9187	79	10		
420958000		40.692224	-75.237156	2009	73	67	161071	0.9187	79	10	Pennsylvania	Northampton
420990301		40.456944	-77.165556	2009	72	65.5	148066	0.9099	72	10	Pennsylvania	Perry
421010004		40.008889	-75.097778	2009	64	59.1	164065	0.9238	85	15	Pennsylvania	Philadelphia
421010014		40.05	-75.240556	2009	-7	-9	163065	0.9233	85	11	Pennsylvania	Philadelphia
421010024		40.076389	-75.011944	2009	84	77.1	164066	0.9179	85	16	Pennsylvania	Philadelphia
421010136		39.9275	-75.222778	2009	-7	-9	163064	0.9312	84	11	Pennsylvania	Philadelphia
421174000		41.644722	-76.939167	2009	70	-9	148077	-9	70	3	Pennsylvania	Tioga
421250005		40.146667	-79.902222	2009	72	65.9	130059	0.9159	73	10	Pennsylvania	Washington
421250200		40.170556	-80.261389	2009	68	61.5	128059	0.9046	71	10	Pennsylvania	Washington
421255001		40.445278	-80.420833	2009	72	65.2	126061	0.9065	73	10	Pennsylvania	Washington
421290006		40.428076	-79.6928114	2009	71	64.4	131062	0.9083	78	10	Pennsylvania	Westmoreland
421290008		40.304694	-79.505667	2009	72	66	133061	0.9176	77	10	Pennsylvania	Westmoreland
421330008		39.965278	-76.699444	2009	77	69.5	153062	0.9037	81	10	Pennsylvania	York
421330011		39.86097	-76.462055	2009	-7	-9	155062	0.9087	83	10	Pennsylvania	York
440030002		41.6156	-71.7199	2009	77	71.2	183085	0.9247	85	11	Rhode Island	Kent
440071010		41.84092	-71.36094	2009	77	71	184088	0.9228	85	12	Rhode Island	Providence
440090007		41.491667	-71.427778	2009	77	71.7	185085	0.9324	85	14	Rhode Island	Washington
450010001		34.325318	-82.386376	2009	72	64.3	122003	0.8932	70	9	South Carolina	Abbeville
450070003		34.776927	-82.490386	2009	-7	-9	120007	0.8966	72	13		
450070005		34.6232364	-82.5320592	2009	-7	-9	120006	0.8954	72	10	South Carolina	Anderson
450210002		35.130396	-81.816567	2009	68	61.7	125011	0.9077	73	10	South Carolina	Cherokee
450230002		34.79297	-81.203724	2009	-7	-9	130009	0.899	75	12	South Carolina	Chester
450250001		34.615367	-80.198787	2009	70	62.7	138009	0.8966	70	11	South Carolina	Chesterfield
450310003		34.285696	-79.744859	2009	71	62.8	142006	0.8859	70	9	South Carolina	Darlington
450450016		34.7518481	-82.2567013	2009	-7	-9	122007	0.898	72	10	South Carolina	Greenville

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450451003		35.0573946	-82.3728808	2009	-7	-9	121010	0.9061	71	11	South Carolina	Greenville
450730001		34.805261	-83.2377	2009	71	63.6	115006	0.896	71	13	South Carolina	Oconee
450770002		34.653606	-82.838659	2009	75	67.4	118006	0.8988	71	12	South Carolina	Pickens
450790007		34.093959	-80.962304	2009	-7	-9	133003	0.8815	72	10	South Carolina	Richland
450790021		33.81468	-80.781135	2009	67	58.9	135001	0.8796	72	10	South Carolina	Richland
450791001		34.131262	-80.868318	2009	74	65.2	133003	0.8815	72	10	South Carolina	Richland
450830009		34.988706	-82.075802	2009	78	70.4	123010	0.903	73	11	South Carolina	Spartanburg
450870001		34.539378	-81.560354	2009	-7	-9	127006	0.8934	71	10	South Carolina	Union
450890001		33.723808	-79.565096	2009	-7	-9	144001	-9	70	2	South Carolina	Williamsburg
450910006		34.935817	-81.228409	2009	72	64.7	129010	0.8996	75	11	South Carolina	York
460990007		43.537626	-96.682001	2009	-7	-9	13079	-9	70	0	South Dakota	Minnehaha
460990008		43.54792	-96.700769	2009	-7	-9	13079	-9	70	0	South Dakota	Minnehaha
461270003		42.880212	-96.785339	2009	-7	-9	12073	-9	70	0	South Dakota	Union
470010101		35.9632729	-84.2232337	2009	72	63	106016	0.8752	75	12	Tennessee	Anderson
470090101		35.6314897	-83.9435125	2009	79	70.9	108013	0.8975	73	11	Tennessee	Blount
470090102		35.603056	-83.783611	2009	69	61.7	109013	0.8954	72	12	Tennessee	Blount
470370011		36.205	-86.744722	2009	67	59.1	87016	0.8824	78	10	Tennessee	Davidson
470370026		36.150742	-86.623301	2009	70	62.1	88015	0.8877	77	10	Tennessee	Davidson
470651011		35.233527	-85.181806	2009	75	66.5	99008	0.887	77	12	Tennessee	Hamilton
470654003		35.102638	-85.162194	2009	79	69.8	100007	0.8842	77	10	Tennessee	Hamilton
470750003		35.4817445	-89.1711626	2009	-7	-9	69007	-9	70	3	Tennessee	Haywood
470890002		36.114535	-83.6010012	2009	76	66.6	110018	0.8769	75	10	Tennessee	Jefferson
470930021		36.085508	-83.764806	2009	77	67	109018	0.8706	75	10	Tennessee	Knox
470931020		36.019186	-83.87381	2009	82	71.3	108017	0.8705	77	11	Tennessee	Knox
470990002		35.1162235	-87.4700102	2009	-7	-9	82005	0.8984	70	6	Tennessee	Lawrence
471050109		35.7209322	-84.3415806	2009	77	68	105014	0.8834	75	15	Tennessee	Loudon
471210104		35.2889973	-84.9460437	2009	74	65.5	101009	0.8852	74	13	Tennessee	Meigs
471410004		36.2050905	-85.39939	2009	-7	-9	97017	0.8936	70	5	Tennessee	Putnam
471490101		35.732878	-86.5988723	2009	74	66.1	88012	0.8937	70	14	Tennessee	Rutherford
471550101		35.696667	-83.609722	2009	79	69.9	111014	0.8853	73	10	Tennessee	Sevier
471550102		35.562778	-83.498056	2009	-7	-9	112013	0.8984	72	10	Tennessee	Sevier
471570021		35.2175	-90.019444	2009	78	70.8	63004	0.9077	77	10	Tennessee	Shelby
471571004		35.377222	-89.832222	2009	75	67	64006	0.8935	73	10	Tennessee	Shelby
471632002		36.5411927	-82.4259641	2009	76	70.3	118023	0.9251	73	13	Tennessee	Sullivan
471632003		36.582222	-82.485833	2009	75	69.4	118024	0.9265	73	12	Tennessee	Sullivan

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Year												
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471650007		36.297778	-86.652778	2009	78	68.6	87017	0.8801	75	10	Tennessee	Sumner
471650101		36.4539752	-86.5641491	2009	72	63.7	88018	0.8852	74	12	Tennessee	Sumner
471870106		35.951944	-87.137222	2009	72	63.4	84013	0.8809	73	10	Tennessee	Williamson
471890103		36.0603715	-86.2860846	2009	76	67.5	90015	0.8888	73	10	Tennessee	Wilson
500030004		42.88759	-73.24984	2009	71	64.9	169094	0.9143	70	9	Vermont	Bennington
500070007		44.52839	-72.86884	2009	69	-9	168109	-9	70	0	Vermont	Chittenden
510030001		38.076388	-78.503888	2009	-7	-9	144042	0.9071	70	7	Virginia	Albemarle
510130020		38.8575	-77.059167	2009	79	70.2	152052	0.8894	84	11	Virginia	Arlington
510330001		38.203056	-77.377222	2009	74	66	151045	0.8922	74	11	Virginia	Caroline
510360002		37.343294	-77.260034	2009	77	70.7	154038	0.9184	79	10	Virginia	Charles
510410004		37.358889	-77.593611	2009	74	66.9	152037	0.9051	76	10	Virginia	Chesterfield
510590005		38.893889	-77.465278	2009	73	65.4	150051	0.897	81	12	Virginia	Fairfax
510590018		38.7425	-77.0775	2009	80	72.6	153051	0.9084	85	10	Virginia	Fairfax
510590030		38.772778	-77.105556	2009	80	72.1	152051	0.9015	82	11	Virginia	Fairfax
510591004		38.868056	-77.143056	2009	-7	-9	152052	0.8894	84	11		
510591005		38.837517	-77.163231	2009	78	70.3	152051	0.9015	82	11	Virginia	Fairfax
510595001		38.931944	-77.198889	2009	77	68.3	151052	0.8878	82	10	Virginia	Fairfax
510610002		38.475	-77.767778	2009	66	58.8	148047	0.8919	71	11	Virginia	Fauquier
510690010		39.282778	-78.081389	2009	69	63.5	144054	0.9207	70	11	Virginia	Frederick
510850001		37.637778	-77.316389	2009	-7	-9	153040	0.9165	75	11		
510850003		37.606056	-77.218769	2009	75	68.4	154040	0.9131	75	14	Virginia	Hanover
510870014		37.558333	-77.400278	2009	78	71.1	153039	0.9121	78	10	Virginia	Henrico
511071005		39.024444	-77.49	2009	77	67.7	149052	0.8796	80	10	Virginia	Loudoun
511130003		38.521944	-78.436111	2009	73	-9	143047	-9	70	2	Virginia	Madison
511390004		38.663333	-78.504722	2009	66	-9	143048	-9	70	3	Virginia	Page
511530009		38.855278	-77.635556	2009	71	63.9	148051	0.9002	76	10	Virginia	Prince William
511611004		37.285556	-79.884167	2009	70	-9	135033	-9	70	2	Virginia	Roanoke
511630003		37.626111	-79.513056	2009	64	-9	137037	-9	70	2	Virginia	Rockbridge
511650003		38.47732	-78.81904	2009	67	-9	141046	-9	70	0	Virginia	Rockingham
511790001		38.483056	-77.370278	2009	72	64.7	151048	0.8987	85	13	Virginia	Stafford
511970002		36.893056	-81.255	2009	67	-9	126028	-9	70	4	Virginia	Wythe
515100009		38.810833	-77.044722	2009	75	68.1	153051	0.9084	85	10	Virginia	Alexandria City
516500004		37.003333	-76.399167	2009	-7	-9	161036	0.9447	85	13	Virginia	Hampton City
517000013		37.0998	-76.48105	2009	-7	-9	160037	0.9523	85	14	Virginia	Newport News City
518000004		36.903333	-76.438611	2009	72	68.2	161035	0.9475	82	13	Virginia	Suffolk City

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Year												
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518000005		36.6675	-76.731389	2009	73	67.4	159032	0.9237	74	13	Virginia	Suffolk City
540030003		39.448006	-77.964125	2009	70	64.2	145056	0.9177	71	11	West Virginia	Berkeley
540110006		38.424133	-82.4259	2009	73	66.6	115040	0.9133	73	12	West Virginia	Cabell
540250003		37.908533	-80.632633	2009	68	-9	129038	-9	70	2	West Virginia	Greenbrier
540291004		40.4215389	-80.5807174	2009	74	67.1	125061	0.9078	73	11	West Virginia	Hancock
540390010		38.3456	-81.628317	2009	73	65.8	121041	0.9022	74	10	West Virginia	Kanawha
540610003		39.649367	-79.920867	2009	69	64.5	131055	0.9358	76	10	West Virginia	Monongalia
540690010		40.1148756	-80.7009723	2009	74	66.5	125058	0.8995	71	10	West Virginia	Ohio
541071002		39.323533	-81.552367	2009	72	63.4	120050	0.881	72	10	West Virginia	Wood
550030010		46.61455	-90.69868	2009	59	-9	51109	-9	70	0	Wisconsin	Ashland
550090026		44.53	-87.908889	2009	70	64.5	70091	0.9225	70	5	Wisconsin	Brown
550210015		43.314444	-89.108889	2009	67	-9	63079	-9	70	3	Wisconsin	Columbia
550250041		43.100833	-89.357222	2009	68	-9	62077	-9	70	3	Wisconsin	Dane
550270007		43.435	-88.527778	2009	68	-9	67081	-9	70	2	Wisconsin	Dodge
550290004		45.237778	-86.993611	2009	78	71.7	76098	0.9202	80	10	Wisconsin	Door
550370001		45.795556	-88.400556	2009	63	-9	66103	-9	70	1	Wisconsin	Florence
550390006		43.687778	-88.421944	2009	67	-9	68083	-9	70	3	Wisconsin	Fond du Lac
550410007		45.56498	-88.80859	2009	65	-9	64100	-9	70	0	Wisconsin	Forest
550450001		42.533889	-89.659444	2009	-7	-9	60072	-9	70	2		
550550002		43.001389	-88.812222	2009	69	63.9	66077	0.9262	70	5	Wisconsin	Jefferson
550590002		42.559167	-87.826111	2009	-7	-9	73073	0.941	84	11		
550590019		42.504722	-87.8093	2009	76	71.5	73073	0.941	84	11	Wisconsin	Kenosha
550590022		42.652778	-87.849444	2009	-7	-9	73074	0.938	84	10		
550610002		44.442778	-87.506111	2009	73	68.3	73091	0.9361	76	11	Wisconsin	Kewaunee
550630012		43.778	-91.225	2009	-7	-9	49083	-9	70	1	Wisconsin	La Crosse
550710004		44.0825	-87.968611	2009	-7	-9	70087	0.9261	70	7		
550710007		44.138611	-87.616111	2009	75	70.3	73088	0.9374	78	10	Wisconsin	Manitowoc
550730012		44.707222	-89.769722	2009	65	-9	58092	-9	70	1	Wisconsin	Marathon
550790010		43.016667	-87.933333	2009	64	60.2	72077	0.9413	78	11	Wisconsin	Milwaukee
550790026		43.061111	-87.9125	2009	68	64	72078	0.9423	79	11	Wisconsin	Milwaukee
550790041		43.075278	-87.884444	2009	70	65.9	72078	0.9423	79	11	Wisconsin	Milwaukee
550790044		43.092778	-88.005556	2009	-7	-9	71078	0.9504	71	11		
550790048		42.981944	-87.964722	2009	-7	-9	71077	0.9353	71	10		
550790085		43.181111	-87.900556	2009	74	69.9	72079	0.945	79	12	Wisconsin	Milwaukee
550791025		42.896389	-87.878056	2009	-7	-9	72076	0.9433	78	10		

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Year												
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550850004		45.678056	-89.632222	2009	65	-9	58101	-9	70	1	Wisconsin	Oneida
550870009		44.306944	-88.395556	2009	67	-9	67089	-9	70	1	Wisconsin	Outagamie
550890008		43.343056	-87.920833	2009	71	66.8	71080	0.9418	75	10	Wisconsin	Ozaukee
550890009		43.498056	-87.81	2009	73	68.5	72082	0.9389	81	10	Wisconsin	Ozaukee
551010017		42.713889	-87.798611	2009	71	66.5	73075	0.9378	85	10	Wisconsin	Racine
551050021		42.776111	-88.962778	2009	-7	-9	65075	0.9245	70	5		
551050024		42.50889	-89.05667	2009	69	-9	64072	-9	70	3	Wisconsin	Rock
551091002		45.124444	-92.6625	2009	66	-9	39094	-9	70	0	Wisconsin	St. Croix
551110007		43.435556	-89.680278	2009	64	-9	60080	-9	70	4	Wisconsin	Sauk
551170006		43.666944	-87.716389	2009	79	74.1	72084	0.9392	79	10	Wisconsin	Sheboygan
551170007		43.718333	-87.813056	2009	-7	-9	72084	0.9392	79	10		
551230008		43.702222	-90.568333	2009	65	-9	53082	-9	70	1	Wisconsin	Vernon
551250001		46.048056	-89.653611	2009	65	-9	58104	-9	70	0	Wisconsin	Vilas
551270005		42.58	-88.499167	2009	69	64.2	68073	0.9311	70	5	Wisconsin	Walworth
551310009		43.327222	-88.220278	2009	65	60.2	69080	0.9271	70	7	Wisconsin	Washington
551330017		43.003889	-88.231944	2009	-7	-9	70077	0.9385	70	7		
551330027		43.020278	-88.215	2009	63	59.1	70077	0.9385	70	7	Wisconsin	Waukesha
551390011		44.075278	-88.529722	2009	-7	-9	67087	0.9267	70	6		

ALPINE GEOPHYSICS

ENVIRON

Table A-2. MATS 2.3.1 Output Files; 2018 8-hr Ozone Business As Usual Runs

MATS 2.3.1 - Ouput File - Ozone
2018 Business As Usual Scenario

Year												
_id	_type	lat	long	date	b_o3_DV	f_o3_DV	referencecell	rrf	ppb	days	_state_name	_county_name
10331002		34.760556	-87.650556	2009	67	58.6	81002	0.8748	74	10	Alabama	Colbert
10890014		34.68767	-86.58637	2009	73	62.2	89002	0.8526	70	14	Alabama	Madison
11030011		34.5187353	-86.9769392	2009	70	60	88001	0.8579	70	13	Alabama	Morgan
50350005		35.1972876	-90.1931408	2009	76	66.3	62004	0.8727	76	10	Arkansas	Crittenden
51010002		35.8327263	-93.2082595	2009	68	-9	39009	-9	70	0	Arkansas	Newton
51190007		34.7561888	-92.2812959	2009	73	-9	47001	-9	70	2	Arkansas	Pulaski
51191002		34.8357211	-92.2605814	2009	73	-9	47001	-9	70	2	Arkansas	Pulaski
51430005		36.1797001	-94.1168274	2009	64	55.5	32012	0.8675	70	6	Arkansas	Washington
90010017		41.003611	-73.585	2009	79	69.5	172077	0.8799	85	29	Connecticut	Fairfield
90011123		41.399167	-73.443056	2009	84	73	172080	0.8694	85	11	Connecticut	Fairfield
90013007		41.1525	-73.103056	2009	81	71.5	174079	0.8836	85	26	Connecticut	Fairfield
90019003		41.118333	-73.336667	2009	82	72.3	173078	0.8822	85	30	Connecticut	Fairfield
90031003		41.784722	-72.631667	2009	81	69.8	176085	0.8621	85	10	Connecticut	Hartford
90050005		41.821389	-73.297222	2009	-7	-9	172084	0.87	78	11	Connecticut	Litchfield
90050006		41.841389	-73.163333	2009	-7	-9	172085	0.8741	77	11		
90070007		41.552222	-72.63	2009	81	69.8	177083	0.8627	85	16	Connecticut	Middlesex
90090027		41.301111	-72.902778	2009	72	63.7	175080	0.8856	85	24	Connecticut	New Haven
90091123		41.310833	-72.916944	2009	-7	-9	175081	0.8844	85	22		
90093002		41.260833	-72.55	2009	81	72	178081	0.89	85	25	Connecticut	New Haven
90110008		41.317222	-72.065	2009	-7	-9	181082	0.8949	85	23	Connecticut	New London
90110124		41.35362	-72.07882	2009	-7	-9	181082	0.8949	85	23	Connecticut	New London
90131001		41.976389	-72.388056	2009	81	69.8	177087	0.8629	84	10	Connecticut	Tolland
100010002		38.984722	-75.555556	2009	74	66	163055	0.8925	85	14	Delaware	Kent
100031003		39.761111	-75.491944	2009	-7	-9	161062	0.8691	81	10		
100031007		39.551111	-75.730833	2009	75	63.8	160060	0.8514	85	12	Delaware	New Castle
100031010		39.817222	-75.563889	2009	-7	-9	161063	0.8733	82	10	Delaware	New Castle
100031013		39.773889	-75.496389	2009	74	64.3	161062	0.8691	81	10	Delaware	New Castle
100051002		38.644444	-75.613056	2009	76	66	163052	0.8691	77	10	Delaware	Sussex
100051003		38.779167	-75.163056	2009	-7	-9	166054	0.9036	85	22	Delaware	Sussex
110010025		38.975278	-77.022778	2009	77	63.7	152053	0.8281	84	10	District Of Col	District of Columbia
110010041		38.897222	-76.952778	2009	78	65.5	153052	0.841	85	11	District Of Col	District of Columbia
110010043		38.918889	-77.0125	2009	80	67.2	153052	0.841	85	11	District Of Col	District of Columbia
130550001		34.4742929	-85.4080034	2009	71	59.6	99001	0.8408	71	11	Georgia	Chattooga
130570001		34.320278	-84.554722	2009	-7	-9	105001	0.8251	74	10		
130850001		34.3763282	-84.0593525	2009	73	60.2	109002	0.826	75	11	Georgia	Dawson

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Year												
_id	_type	lat	long	date	b_o3_DV	f_o3_DV	referencecell	rrf	ppb	days	_state_name	_county_name
131110094		34.9075	-84.526389	2009	-7	-9	105006	0.8469	72	11		
132130003		34.7851967	-84.6264223	2009	76	63.4	104005	0.8346	74	12	Georgia	Murray
170010006		39.93301	-91.4042371	2009	-7	-9	50047	-9	70	4		
170010007		39.9154094	-91.3358683	2009	67	59	51047	0.8815	70	7	Illinois	Adams
170190004		40.1237962	-88.229531	2009	65	-9	72051	-9	70	1	Illinois	Champaign
170230001		39.210883	-87.668416	2009	66	57.2	77043	0.8668	70	6	Illinois	Clark
170310001		41.6709919	-87.7324569	2009	73	66.8	74065	0.916	70	8	Illinois	Cook
170310032		41.7558324	-87.5453497	2009	71	64.7	75066	0.9121	73	10	Illinois	Cook
170310050		41.7075696	-87.5685739	2009	-7	-9	75066	0.9121	73	10		
170310063		41.8769694	-87.6343305	2009	-7	-9	75067	0.9278	79	10		
170310064		41.7907869	-87.6016465	2009	67	61.1	75066	0.9121	73	10	Illinois	Cook
170310072		41.8958123	-87.6076833	2009	66	61.2	75067	0.9278	79	10	Illinois	Cook
170310075		41.964167	-87.658611	2009	-7	-9	74068	0.9253	79	11		
170310076		41.7514	-87.7134882	2009	71	66.1	74066	0.9322	71	10	Illinois	Cook
170311003		41.9843323	-87.7920017	2009	69	63.8	74068	0.9253	79	11	Illinois	Cook
170311601		41.6681203	-87.9905697	2009	74	67.7	72065	0.9149	70	10	Illinois	Cook
170314002		41.8552431	-87.7524697	2009	65	61.5	74067	0.9474	70	9	Illinois	Cook
170314007		42.0602847	-87.8632254	2009	64	58.1	73069	0.9082	80	10	Illinois	Cook
170314201		42.1399962	-87.7992269	2009	-7	-9	73069	0.9082	80	10	Illinois	Cook
170317002		42.0618572	-87.6741672	2009	67	62.3	74069	0.931	83	10	Illinois	Cook
170318003		41.631389	-87.568056	2009	-7	-9	75065	0.9397	72	10		
170436001		41.8130494	-88.0728269	2009	62	57.5	72066	0.9281	71	11	Illinois	DuPage
170491001		39.0671593	-88.548934	2009	69	-9	71041	-9	70	4	Illinois	Effingham
170650001		37.998221	-88.493108	2009	-7	-9	72031	0.8764	70	6		
170650002		38.0821552	-88.6249434	2009	68	60	71032	0.8837	70	5	Illinois	Hamilton
170831001		39.1105395	-90.3240799	2009	70	59.8	58040	0.8549	78	11	Illinois	Jersey
170890005		42.0491478	-88.2730293	2009	68	63.1	70068	0.9291	72	11	Illinois	Kane
170970001		42.177222	-87.864722	2009	-7	-9	73070	0.9172	83	11		
170971002		42.3867056	-87.8414062	2009	67	61	73072	0.9108	84	11	Illinois	Lake
170971007		42.4675733	-87.810047	2009	74	67.3	73072	0.9108	84	11	Illinois	Lake
170973001		42.290556	-87.981667	2009	-7	-9	72071	0.9141	74	10		
171110001		42.2214417	-88.2422073	2009	68	62	70070	0.9125	71	10	Illinois	McHenry
171132003		40.5187354	-88.9968957	2009	71	57.7	67054	0.8137	70	6	Illinois	McLean
171150013		39.8668339	-88.9255945	2009	70	-9	68048	-9	70	2	Illinois	Macon
171170002		39.3960753	-89.8097389	2009	68	57.2	62043	0.8422	70	8	Illinois	Macoupin

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Year												
_id	_type	lat	long	date	b_o3_DV	f_o3_DV	referencecell	rrf	ppb	days	_state_name	_county_name
171190008		38.890186	-90.1480311	2009	72	60.7	60038	0.8442	85	10	Illinois	Madison
171191009		38.7265726	-89.9599625	2009	77	64.8	61037	0.842	85	11	Illinois	Madison
171192007		38.7933411	-90.0397622	2009	-7	-9	60037	0.8551	85	12		
171193007		38.8606695	-90.1058511	2009	73	61.6	60038	0.8442	85	10	Illinois	Madison
171430024		40.6874204	-89.6069428	2009	62	51.1	62055	0.8243	70	6	Illinois	Peoria
171431001		40.7455039	-89.585869	2009	72	59.3	62055	0.8243	70	6	Illinois	Peoria
171570001		38.1762776	-89.7884586	2009	67	59.2	63032	0.8839	70	11	Illinois	Randolph
171613002		41.514727	-90.5173503	2009	62	-9	55062	-9	70	1	Illinois	Rock Island
171630010		38.6120345	-90.1604766	2009	70	60.1	60036	0.86	85	12	Illinois	Saint Clair
171670010		39.8441219	-89.6048392	2009	64	55.6	63047	0.8701	70	7	Illinois	Sangamon
171971008		41.575709	-88.055089	2009	-7	-9	72064	0.9011	70	7		
171971011		41.2215371	-88.1909672	2009	64	-9	71061	-9	70	3	Illinois	Will
172010009		42.2871896	-89.0770053	2009	-7	-9	65070	-9	70	2	Illinois	Winnebago
172012001		42.3349822	-89.0377748	2009	66	-9	65070	-9	70	2	Illinois	Winnebago
180030002		41.221667	-85.017222	2009	69	-9	93063	-9	70	4	Indiana	Allen
180030004		41.094722	-85.101944	2009	71	-9	93062	-9	70	3	Indiana	Allen
180110001		39.997484	-86.395172	2009	75	65.7	85051	0.8767	70	7	Indiana	Boone
180150002		40.540556	-86.553056	2009	68	-9	84056	-9	70	3	Indiana	Carroll
180190008		38.393833	-85.6641666	2009	-7	-9	92037	0.8352	82	10	Indiana	Clark
180350010		40.3	-85.245556	2009	69	58.8	93055	0.8522	70	5	Indiana	Delaware
180390002		41.719167	-85.831111	2009	-7	-9	87067	0.8648	70	5		
180390007		41.71805	-85.83055	2009	70	60.5	87067	0.8648	70	5	Indiana	Elkhart
180431004		38.308056	-85.834167	2009	73	61.9	91036	0.8484	82	11	Indiana	Floyd
180510011		38.42525	-87.465889	2009	-7	-9	79036	0.8516	72	11		
180550001		38.985578	-86.99012	2009	74	66.1	82041	0.8938	70	6	Indiana	Greene
180570005		40.065194	-86.008061	2009	76	66.2	88052	0.8723	73	10	Indiana	Hamilton
180590003		39.935008	-85.840513	2009	74	64.9	89051	0.8783	72	10	Indiana	Hancock
180630004		39.758967	-86.397148	2009	72	64.1	85049	0.8916	70	7	Indiana	Hendricks
180690002		40.960556	-85.38	2009	66	-9	91061	-9	70	2	Indiana	Huntington
180710001		38.920798	-86.080523	2009	70	61.5	89041	0.8789	70	9	Indiana	Jackson
180810002		39.417203	-86.152395	2009	73	65.4	88046	0.8963	70	6	Indiana	Johnson
180890022		41.606667	-87.304722	2009	-7	-9	77065	0.9424	78	12	Indiana	Lake
180890024		41.263889	-87.4175	2009	-7	-9	77062	0.9037	70	9		
180890030		41.681384	-87.494722	2009	70	65.3	76065	0.9332	74	10	Indiana	Lake
180892008		41.639444	-87.493611	2009	70	65.3	76065	0.9332	74	10	Indiana	Lake

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180910005		41.7170219	-86.9077427	2009	66	60.5	80066	0.917	85	12	Indiana	LaPorte
180910010		41.629167	-86.684722	2009	68	62.5	81066	0.9195	85	10	Indiana	LaPorte
180950010		40.0025	-85.656944	2009	69	60	90052	0.8701	72	10	Indiana	Madison
180970042		39.646254	-86.248784	2009	-7	-9	87048	0.925	70	7	Indiana	Marion
180970050		39.858961	-86.021341	2009	77	68.6	88050	0.892	72	10	Indiana	Marion
180970057		39.749019	-86.186314	2009	70	63.6	87049	0.9096	71	10	Indiana	Marion
180970073		39.7894856	-86.0608498	2009	69	62.1	88049	0.9008	71	11	Indiana	Marion
180970078		39.811097	-86.114469	2009	-7	-9	87049	0.9096	71	10	Indiana	Marion
181090005		39.575596	-86.477914	2009	74	-9	85047	-9	70	4	Indiana	Morgan
181230008		38.206944	-86.575	2009	-7	-9	86034	0.825	75	11		
181230009		38.113101	-86.603611	2009	72	58.8	86033	0.8179	79	10	Indiana	Perry
181270020		41.631389	-87.086944	2009	-7	-9	79065	0.9415	81	11		
181270024		41.6175	-87.199167	2009	73	68.8	78065	0.9428	81	11	Indiana	Porter
181270026		41.510278	-87.038611	2009	68	62.3	79064	0.9168	71	11	Indiana	Porter
181290003		38.005278	-87.718333	2009	72	60.1	78032	0.8361	72	11	Indiana	Posey
181410010		41.551667	-86.370556	2009	66	57.8	84065	0.8758	70	6	Indiana	St. Joseph
181410015		41.696692	-86.214683	2009	61	53	85067	0.8703	70	6	Indiana	St. Joseph
181411007		41.742583	-86.110556	2009	71	61.7	85067	0.8703	70	6	Indiana	St. Joseph
181450001		39.611293	-85.873582	2009	75	68	89048	0.907	70	6	Indiana	Shelby
181630012		38.021667	-87.569444	2009	-7	-9	79032	0.8284	73	10	Indiana	Vanderburgh
181630013		38.113889	-87.536944	2009	76	63.1	79033	0.831	73	10	Indiana	Vanderburgh
181630021		38.013248	-87.5778561	2009	73	60.4	79032	0.8284	73	10	Indiana	Vanderburgh
181670018		39.486111	-87.401389	2009	64	54.6	79045	0.8545	70	10	Indiana	Vigo
181670024		39.560556	-87.313056	2009	66	55.5	79046	0.8412	70	10	Indiana	Vigo
181730008		38.051944	-87.278333	2009	72	59.1	81032	0.8221	77	11	Indiana	Warrick
181730009		38.194444	-87.341389	2009	69	57.4	80034	0.8327	74	10	Indiana	Warrick
181730011		37.95445	-87.321933	2009	64	52.7	81031	0.8246	77	12	Indiana	Warrick
190170011		42.743056	-92.513056	2009	64	-9	41073	-9	70	0	Iowa	Bremer
190450021		41.8749989	-90.1775739	2009	67	-9	57066	-9	70	1	Iowa	Clinton
190850007		41.832256	-95.9281847	2009	-7	-9	18063	-9	70	1	Iowa	Harrison
190851101		41.7802614	-95.9484355	2009	64	-9	18063	-9	70	1	Iowa	Harrison
191130028		41.910556	-91.651944	2009	66	-9	47065	-9	70	1	Iowa	Linn
191130033		42.280556	-91.526944	2009	66	-9	48069	-9	70	1	Iowa	Linn
191130040		41.97677	-91.68766	2009	-7	-9	47066	-9	70	1	Iowa	Linn
191370002		40.9691124	-95.0449514	2009	63	-9	24056	-9	70	0	Iowa	Montgomery

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191471002		43.1237042	-94.6935184	2009	58	-9	26076	-9	70	0	Iowa	Palo Alto
191530030		41.6031833	-93.6433	2009	61	-9	34062	-9	70	1	Iowa	Polk
191530058		41.607778	-93.571944	2009	-7	-9	34062	-9	70	1		
191630014		41.6991742	-90.5219437	2009	66	-9	55064	-9	70	1	Iowa	Scott
191630015		41.5300106	-90.5876108	2009	63	-9	55062	-9	70	1	Iowa	Scott
191632011		41.6475	-90.430833	2009	-7	-9	56063	-9	70	1		
191690011		41.8828667	-93.6878	2009	62	-9	33064	-9	70	0	Iowa	Story
191770005		40.689167	-91.994444	2009	-7	-9	45054	-9	70	0		
191770006		40.695078	-92.006318	2009	64	-9	45054	-9	70	0	Iowa	Van Buren
191810022		41.2855333	-93.5839833	2009	63	-9	34059	-9	70	1	Iowa	Warren
200450004		39.00436	-95.22384	2009	-7	-9	23037	0.8765	70	7		
200910010		38.83859	-94.74643	2009	65	56.6	27036	0.8708	71	11	Kansas	Johnson
201030003		39.32746	-94.95127	2009	69	60.8	25040	0.8822	70	10	Kansas	Leavenworth
201070002		38.135833	-94.731944	2009	65	-9	27030	-9	70	4	Kansas	Linn
201730001		37.781389	-97.337222	2009	62	54.6	8026	0.8814	70	5	Kansas	Sedgwick
201730010		37.701111	-97.313889	2009	66	-9	8025	-9	70	3	Kansas	Sedgwick
201770013		39.02427	-95.71128	2009	66	58.1	20038	0.8804	70	5	Kansas	Shawnee
201910002		37.476944	-97.366389	2009	70	-9	8023	-9	70	2	Kansas	Sumner
202090021		39.1175	-94.635556	2009	66	58.5	27039	0.8871	75	14	Kansas	Wyandotte
210130002		36.608056	-83.736944	2009	67	-9	108022	-9	70	4	Kentucky	Bell
210150003		38.918056	-84.852778	2009	68	58.4	97042	0.86	76	11	Kentucky	Boone
210190017		38.459167	-82.640556	2009	70	61.4	114040	0.8782	73	13	Kentucky	Boyd
210290006		37.985556	-85.713056	2009	70	57.6	92033	0.8236	78	10	Kentucky	Bullitt
210370003		39.065556	-84.451944	2009	-7	-9	100044	0.9159	79	10		
210373002		39.021806	-84.474453	2009	-7	-9	100044	0.9159	79	10	Kentucky	Campbell
210430500		38.238333	-82.988333	2009	69	62.3	112038	0.9033	70	8	Kentucky	Carter
210470006		36.911667	-87.323611	2009	75	63.1	82022	0.8418	70	10	Kentucky	Christian
210590005		37.780833	-87.075556	2009	75	60.7	83030	0.8106	77	10	Kentucky	Daviess
210610501		37.131389	-86.148056	2009	72	60.8	90025	0.8455	70	6	Kentucky	Edmonson
210670001		38.125833	-84.468333	2009	-7	-9	101035	0.8501	70	10	Kentucky	Fayette
210670012		38.065	-84.5	2009	70	59.5	101035	0.8501	70	10	Kentucky	Fayette
210830003		36.899167	-88.493611	2009	-7	-9	73021	0.8774	70	6		
210890007		38.548333	-82.731667	2009	72	63.1	113041	0.8774	73	11	Kentucky	Greenup
210910012		37.938889	-86.896944	2009	74	59.6	84032	0.8057	77	10	Kentucky	Hancock
210930006		37.706389	-85.851667	2009	74	61.6	92030	0.8325	71	10	Kentucky	Hardin

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211010013		37.858889	-87.575278	2009	-7	-9	79030	0.8396	72	11		
211010014		37.871389	-87.463333	2009	76	62.9	80031	0.8278	76	12	Kentucky	Henderson
211110027		38.13784	-85.57648	2009	75	62.4	93035	0.8331	81	10	Kentucky	Jefferson
211110051		38.06091	-85.89804	2009	79	66.8	91034	0.8457	79	11	Kentucky	Jefferson
211111021		38.26355	-85.71025	2009	70	59.2	92036	0.8465	82	12	Kentucky	Jefferson
211130001		37.893333	-84.589167	2009	71	61	100033	0.8595	70	8	Kentucky	Jessamine
211170007		39.0725	-84.525	2009	77	70.5	99044	0.9167	78	11	Kentucky	Kenton
211390003		37.155556	-88.393056	2009	69	60.6	74023	0.8797	71	12	Kentucky	Livingston
211390004		37.070833	-88.334167	2009	-7	-9	74023	0.8797	71	12		
211451024		37.058056	-88.5725	2009	72	64.7	72022	0.8991	73	10	Kentucky	McCracken
211490001		37.606389	-87.253889	2009	-7	-9	82028	0.8341	72	11		
211850004		38.398611	-85.443333	2009	76	63.1	94037	0.8304	77	10	Kentucky	Oldham
211930003		37.283056	-83.220278	2009	70	-9	111029	-9	70	1	Kentucky	Perry
211950002		37.482778	-82.535278	2009	70	-9	116032	-9	70	2	Kentucky	Pike
211990003		37.0975	-84.611667	2009	67	-9	101026	-9	70	1	Kentucky	Pulaski
212090001		38.385833	-84.56	2009	-7	-9	100038	0.8457	70	10		
212130004		36.708611	-86.566389	2009	72	60.2	87021	0.8366	70	12	Kentucky	Simpson
212210013		36.901389	-88.013611	2009	-7	-9	77021	0.8451	70	5		
212218001		36.783889	-87.851944	2009	73	59.8	78020	0.8205	70	6	Kentucky	Trigg
212270008		37.036667	-86.250556	2009	67	55.9	89024	0.8352	70	9	Kentucky	Warren
230010014		43.974622	-70.124608	2009	72	63.4	187109	0.8812	78	11	Maine	Androscoggin
230050027		43.661944	-70.265833	2009	-7	-9	187106	0.8985	82	12		
230050029		43.660206	-70.2683887	2009	-7	-9	187106	0.8985	82	12	Maine	Cumberland
230052003		43.560833	-70.207778	2009	74	66.4	187106	0.8985	82	12	Maine	Cumberland
230090102		44.351667	-68.227222	2009	78	70.6	198117	0.9064	75	11	Maine	Hancock
230090103		44.37705	-68.2609	2009	73	65.8	197117	0.9014	76	10	Maine	Hancock
230090301		44.422778	-68.805556	2009	-7	-9	194116	0.8923	75	10	Maine	Hancock
230112005		44.230622	-69.785	2009	71	61.7	188112	0.8691	70	8	Maine	Kennebec
230130004		43.917955	-69.26059	2009	70	61.6	192111	0.8808	80	12	Maine	Knox
230173001		44.222222	-70.855556	2009	59	-9	181110	-9	70	4	Maine	Oxford
230191100		44.952043	-68.647677	2009	-7	-9	193121	-9	70	4	Maine	Penobscot
230194008		44.73487	-68.6785	2009	64	55.8	194119	0.8724	70	7	Maine	Penobscot
230210003		45.164167	-69.213889	2009	-7	-9	189122	-9	70	2		
230230003		43.702778	-69.838889	2009	-7	-9	189108	0.8906	83	12		
230230004		43.795296	-69.731669	2009	-7	-9	190109	0.888	82	12	Maine	Sagadahoc

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230230006		44.005	-69.82778	2009	-7	-9	189110	0.8735	79	10	Maine	Sagadahoc
230290019		44.533611	-67.594167	2009	65	58.9	201119	0.9073	73	10	Maine	Washington
230290032		44.963633	-67.060728	2009	56	50.2	203124	0.8971	70	6	Maine	Washington
230310038		43.659167	-70.62	2009	68	59.2	184106	0.8706	70	8	Maine	York
230310040		43.5888534	-70.8767846	2009	-7	-9	183105	0.8696	70	7	Maine	York
230312002		43.343056	-70.471389	2009	74	64.6	186103	0.8741	85	11	Maine	York
230313002		43.083333	-70.75	2009	-7	-9	185100	0.872	85	11	Maine	York
240030014		38.9025	-76.653056	2009	80	68	155053	0.85	85	13	Maryland	Anne Arundel
240030019		39.101111	-76.729444	2009	-7	-9	154054	0.8687	85	16		
240051007		39.460833	-76.631111	2009	75	64.4	154058	0.8598	85	11	Maryland	Baltimore
240053001		39.310833	-76.474444	2009	78	69	156057	0.8847	85	36	Maryland	Baltimore
240090010		38.54	-76.583889	2009	-7	-9	156050	0.8932	85	23		
240090011		38.536722	-76.617194	2009	74	66.1	156049	0.8941	85	21	Maryland	Calvert
240130001		39.444167	-77.041667	2009	78	65.7	151057	0.8429	79	10	Maryland	Carroll
240150003		39.701111	-75.86	2009	84	72.4	159061	0.8623	83	12	Maryland	Cecil
240170010		38.504167	-76.811944	2009	75	65.9	155049	0.8792	83	10	Maryland	Charles
240210037		39.408056	-77.375833	2009	76	63.7	149056	0.8389	79	10	Maryland	Frederick
240230002		39.70595	-79.012	2009	71	61.6	137056	0.8681	70	7	Maryland	Garrett
240251001		39.41	-76.296667	2009	87	75.6	157058	0.8691	85	31	Maryland	Harford
240259001		39.563333	-76.203889	2009	82	70.9	157059	0.865	85	27	Maryland	Harford
240290002		39.305	-75.797333	2009	78	66.6	160058	0.8545	85	13	Maryland	Kent
240313001		39.114444	-77.106944	2009	-7	-9	152054	0.8307	84	10	Maryland	Montgomery
240330002		39.02	-76.827778	2009	-7	-9	154053	0.8445	85	11		
240330030		39.055277	-76.878333	2009	78	66	153054	0.8472	85	11	Maryland	Prince George's
240338001		38.851667	-76.932778	2009	-7	-9	153052	0.841	85	11		
240338003		38.81194	-76.74417	2009	78	67.2	155052	0.862	84	12	Maryland	Prince George's
240430009		39.565556	-77.721944	2009	73	63.1	146057	0.8646	72	11	Maryland	Washington
245100053		39.288889	-76.554444	2009	-7	-9	155056	0.8827	85	41		
245100054		39.32889	-76.5525	2009	67	58.1	155057	0.8672	85	22	Maryland	Baltimore (City)
250010002		41.9755706	-70.0233312	2009	76	68.1	193092	0.897	85	12	Massachusetts	Barnstable
250034002		42.6366797	-73.1673285	2009	-7	-9	171092	0.8714	70	8	Massachusetts	Berkshire
250051002		41.6332778	-70.8791617	2009	74	67.8	188087	0.9173	85	11	Massachusetts	Bristol
250051005		42.063056	-71.148889	2009	-7	-9	185091	0.8935	80	10		
250070001		41.3304803	-70.7853612	2009	-7	-9	190085	0.9195	85	10	Massachusetts	Dukes
250090005		42.709444	-71.146389	2009	-7	-9	184096	0.8678	77	10		

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250092006		42.4746711	-70.9713576	2009	79	71.4	185095	0.9039	85	10	Massachusetts	Essex
250094004		42.790268	-70.8083495	2009	-7	-9	186098	0.8783	85	17	Massachusetts	Essex
250095005		42.7707696	-71.1022593	2009	77	65.7	184097	0.8539	78	10	Massachusetts	Essex
250130003		42.061667	-72.678056	2009	-7	-9	175088	0.875	77	11		
250130008		42.1943805	-72.5551117	2009	84	72.6	176089	0.865	80	10	Massachusetts	Hampden
250150103		42.4005787	-72.5231091	2009	74	64.4	175091	0.8705	77	11	Massachusetts	Hampshire
250154002		42.2982787	-72.3339036	2009	80	69	177090	0.8633	79	10	Massachusetts	Hampshire
250170009		42.62668	-71.362068	2009	74	63.8	182095	0.8631	74	10	Massachusetts	Middlesex
250171102		42.413574	-71.4827748	2009	77	66.5	182093	0.864	75	10	Massachusetts	Middlesex
250174003		42.383611	-71.213889	2009	-7	-9	184093	0.8853	77	10		
250213003		42.2116739	-71.1138645	2009	78	71.1	185092	0.9118	79	11	Massachusetts	Norfolk
250250041		42.3171723	-70.9661588	2009	-7	-9	186093	0.8944	85	12	Massachusetts	Suffolk
250250042		42.3294	-71.0825	2009	65	59.2	185093	0.9113	85	10	Massachusetts	Suffolk
250251003		42.401667	-71.031111	2009	-7	-9	185094	0.9061	85	10		
250270015		42.2741769	-71.8752888	2009	81	70.1	180091	0.8655	75	10	Massachusetts	Worcester
250270024		42.0996771	-71.6194819	2009	-7	-9	182090	0.8645	75	10	Massachusetts	Worcester
260050003		42.7677855	-86.1485772	2009	81	72.7	84076	0.8986	85	12	Michigan	Allegan
260190003		44.6169431	-86.1094078	2009	72	63.7	82093	0.8859	76	10	Michigan	Benzie
260210014		42.1977895	-86.309694	2009	76	70.3	83071	0.9256	85	10	Michigan	Berrien
260270003		41.8955698	-86.0016287	2009	75	65.2	86069	0.87	70	7	Michigan	Cass
260370001		42.7983394	-84.3937953	2009	71	61.9	96078	0.8721	70	7	Michigan	Clinton
260490021		43.0472242	-83.6701591	2009	72	63.4	100081	0.8819	70	10	Michigan	Genesee
260492001		43.1683363	-83.4615407	2009	74	65	101083	0.8791	70	10	Michigan	Genesee
260630007		43.8363879	-82.6428999	2009	72	64.1	106089	0.8912	72	10	Michigan	Huron
260650012		42.7386179	-84.5346332	2009	73	63.1	95078	0.8646	70	6	Michigan	Ingham
260770008		42.2780667	-85.5418899	2009	74	64.3	89072	0.8695	70	5	Michigan	Kalamazoo
260810020		42.984173	-85.6713387	2009	72	62.2	87079	0.8644	72	10	Michigan	Kent
260810022		43.1766718	-85.4166078	2009	75	64.3	88081	0.8586	70	10	Michigan	Kent
260890001		45.0288979	-85.6291465	2009	-7	-9	85098	0.8758	71	10	Michigan	Leelanau
260910007		41.9955677	-83.9465594	2009	73	63.4	100071	0.8693	70	5	Michigan	Lenawee
260990009		42.7313941	-82.7934628	2009	79	69.7	106079	0.8834	75	10	Michigan	Macomb
260991003		42.5133399	-83.0059706	2009	78	70.2	105077	0.9011	73	10	Michigan	Macomb
261010922		44.3070001	-86.2426486	2009	72	63.2	82090	0.8787	75	10	Michigan	Manistee
261050007		43.9533344	-86.2944146	2009	73	63.5	82087	0.8701	77	10	Michigan	Mason
261130001		44.3105554	-84.8918653	2009	69	60.3	90092	0.8751	70	6	Michigan	Missaukee

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261210039		43.2780606	-86.3110825	2009	77	68.8	82081	0.8941	85	14	Michigan	Muskegon
261250001		42.4630634	-83.1831987	2009	77	69.4	104076	0.9016	70	10	Michigan	Oakland
261390005		42.8944507	-85.852734	2009	75	65.2	86078	0.8703	73	11	Michigan	Ottawa
261470005		42.9533363	-82.4562288	2009	75	65.1	108082	0.8685	74	10	Michigan	St. Clair
261530001		46.2888772	-85.9502269	2009	70	-9	81109	-9	70	3	Michigan	Schoolcraft
261610008		42.2405655	-83.5996022	2009	70	60.6	102074	0.8658	70	9	Michigan	Washtenaw
261630001		42.2286201	-83.2082	2009	69	60.2	104074	0.8737	73	10	Michigan	Wayne
261630016		42.3578081	-83.0960329	2009	-7	-9	105075	0.8783	72	10		
261630019		42.4308404	-83.0001375	2009	80	71.3	105076	0.8915	72	11	Michigan	Wayne
270031001		45.40184	-93.20306	2009	-7	-9	35097	-9	70	1	Minnesota	Anoka
270031002		45.13768	-93.20772	2009	64	-9	35094	-9	70	1	Minnesota	Anoka
270052013		46.851811	-95.846272	2009	-7	-9	18110	-9	70	0	Minnesota	Becker
270177416		46.70527	-92.52377	2009	-7	-9	39109	-9	70	0	Minnesota	Carlton
270353204		46.39674	-94.1303	2009	-7	-9	29106	-9	70	0	Minnesota	Crow Wing
270376018		44.75	-92.887778	2009	-7	-9	38091	-9	70	2		
270495302		44.473754	-93.012611	2009	-7	-9	37088	-9	70	1	Minnesota	Goodhue
270750005		47.948622	-91.495574	2009	-7	-9	45121	-9	70	0	Minnesota	Lake
270834210		44.4438	-95.81789	2009	-7	-9	18088	-9	70	0	Minnesota	Lyon
270953051		46.2053	-93.75945	2009	-7	-9	31104	-9	70	1	Minnesota	Mille Lacs
271095008		43.996908	-92.450366	2009	-7	-9	41084	-9	70	0	Minnesota	Olmsted
271370034		48.412778	-92.829167	2009	-7	-9	36125	-9	70	0	Minnesota	Saint Louis
271377550		46.81826	-92.08936	2009	-7	-9	42110	-9	70	0	Minnesota	Saint Louis
271390505		44.791437	-93.512534	2009	-7	-9	33091	-9	70	0	Minnesota	Scott
271453052		45.549839	-94.13345	2009	-7	-9	29098	-9	70	1	Minnesota	Stearns
271636015		45.11728	-92.85532	2009	-7	-9	38094	-9	70	0	Minnesota	Washington
271713201		45.20916	-93.66921	2009	-7	-9	32095	-9	70	1	Minnesota	Wright
280330002		34.82166	-89.98783	2009	76	65.5	63001	0.8628	74	10	Mississippi	DeSoto
290030001		39.9544	-94.849	2009	-7	-9	26046	0.8511	70	7	Missouri	Andrew
290190011		39.07811	-92.31613	2009	-7	-9	44039	-9	70	2	Missouri	Boone
290270002		38.70608	-92.09308	2009	-7	-9	46036	-9	70	1	Missouri	Callaway
290370003		38.770278	-94.58	2009	67	-9	28035	-9	70	3	Missouri	Cass
290390001		37.70086	-94.03481	2009	67	59	32026	0.8811	70	5	Missouri	Cedar
290470003		39.4166998	-94.2835644	2009	72	62.7	30041	0.8717	74	10	Missouri	Clay
290470005		39.3030901	-94.376623	2009	74	64.7	29040	0.8748	79	10	Missouri	Clay
290470006		39.3322553	-94.5807967	2009	76	66.8	28041	0.8795	77	10	Missouri	Clay

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290470025		39.1839244	-94.4977375	2009	-7	-9	28039	0.8811	79	10		
290490001		39.5306	-94.556	2009	76	66.3	28042	0.8735	74	11	Missouri	Clinton
290770026		37.1284023	-93.2618593	2009	-7	-9	38021	0.8302	70	6		
290770036		37.2620109	-93.2982498	2009	69	58.4	38022	0.8465	70	5	Missouri	Greene
290770042		37.3195101	-93.204635	2009	-7	-9	38022	0.8465	70	5	Missouri	Greene
290950036		38.8561508	-94.5507941	2009	-7	-9	28036	0.8628	71	11		
290970003		37.1982662	-94.3080032	2009	-7	-9	30021	0.904	70	9	Missouri	Jasper
290970004		37.238472	-94.42475	2009	-7	-9	29021	0.9082	70	9	Missouri	Jasper
290990012		38.43783	-90.3614922	2009	-7	-9	58034	0.8838	81	10	Missouri	Jefferson
290990019		38.4486328	-90.3985404	2009	-7	-9	58034	0.8838	81	10	Missouri	Jefferson
291130003		39.0447	-90.8647	2009	75	65.1	54039	0.8687	76	10	Missouri	Lincoln
291370001		39.4730922	-91.789318	2009	67	-9	48043	-9	70	3	Missouri	Monroe
291570001		37.6992	-89.6909	2009	74	64.7	64027	0.8744	70	7	Missouri	Perry
291650023		39.3000335	-94.7002444	2009	-7	-9	27040	0.8769	77	11		
291831002		38.8725459	-90.2264885	2009	78	65.8	59038	0.8444	85	10	Missouri	Saint Charles
291831004		38.902222	-90.446944	2009	76	65.6	57038	0.8638	81	10	Missouri	Saint Charles
291860005		37.896944	-90.422222	2009	76	65.7	58029	0.8646	70	9	Missouri	Sainte Genevieve
291890004		38.5325	-90.382778	2009	-7	-9	58035	0.8799	83	10	Missouri	Saint Louis
291890005		38.4902	-90.7052	2009	-7	-9	56034	0.8666	76	10	Missouri	Saint Louis
291890006		38.6136603	-90.4959408	2009	-7	-9	57035	0.8669	80	10		
291890014		38.7109	-90.4759	2009	-7	-9	57036	0.8756	80	10	Missouri	Saint Louis
291893001		38.641438	-90.345936	2009	-7	-9	58036	0.8627	85	10		
291895001		38.7661583	-90.2859342	2009	-7	-9	59037	0.8539	85	12		
291897003		38.7209649	-90.3671318	2009	-7	-9	58036	0.8627	85	10		
295100007		38.5425505	-90.2637112	2009	-7	-9	59035	0.8803	83	11		
295100072		38.6242164	-90.1987092	2009	-7	-9	59036	0.8718	85	12		
295100085		38.656349	-90.1981983	2009	75	65.3	59036	0.8718	85	12	Missouri	St. Louis City
295100086		38.6722707	-90.2389886	2009	-7	-9	59036	0.8718	85	12	Missouri	St. Louis City
310550028		41.2075	-95.9475	2009	59	-9	18058	-9	70	4	Nebraska	Douglas
310550032		41.360278	-96.024722	2009	52	-9	17059	-9	70	3	Nebraska	Douglas
310550035		41.306111	-95.960278	2009	60	-9	18059	-9	70	3	Nebraska	Douglas
311090016		40.984722	-96.677222	2009	52	-9	13056	-9	70	4	Nebraska	Lancaster
330012004		43.565278	-71.495833	2009	69	60.5	179103	0.877	70	5	New Hampshire	Belknap
330031002		43.979444	-71.134167	2009	-7	-9	180108	-9	70	4		
330050007		42.930556	-72.277778	2009	67	58	176096	0.8661	70	8	New Hampshire	Cheshire

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330074001		44.278333	-71.3025	2009	-7	-9	178110	-9	70	1	New Hampshire	Coos
330074002		44.290556	-71.225	2009	61	-9	179110	-9	70	3	New Hampshire	Coos
330074003		45.051111	-71.391944	2009	-7	-9	176117	-9	70	0	New Hampshire	Coos
330090008		44.083889	-72.01	2009	-7	-9	174107	-9	70	0		
330090010		43.62957	-72.226083	2009	66	-9	174102	-9	70	3	New Hampshire	Grafton
330110016		42.992778	-71.459444	2009	-7	-9	181098	0.8631	71	10		
330110020		43.000556	-71.468056	2009	66	56.9	181098	0.8631	71	10	New Hampshire	Hillsborough
330111011		42.720377	-71.523083	2009	71	61.3	181096	0.8634	72	10	New Hampshire	Hillsborough
330115001		42.861901	-71.878613	2009	76	65.7	178096	0.8646	70	10	New Hampshire	Hillsborough
330131007		43.218491	-71.45827	2009	68	58.9	180100	0.867	70	9	New Hampshire	Merrimack
330150012		43.002222	-70.745833	2009	-7	-9	185100	0.872	85	11		
330150013		43	-71.2	2009	-7	-9	182099	0.8716	71	11		
330150014		43.075278	-70.748056	2009	72	62.7	185100	0.872	85	11	New Hampshire	Rockingham
330150016		43.047475	-70.713839	2009	76	66.2	185100	0.872	85	11	New Hampshire	Rockingham
330173002		43.283333	-70.929444	2009	-7	-9	183102	0.8796	71	11		
330190003		43.364444	-72.338333	2009	-7	-9	174100	-9	70	3	New Hampshire	Sullivan
340010005		39.5302561	-74.4602811	2009	-7	-9	169062	0.8938	85	19	New Jersey	Atlantic
340010006		39.464872	-74.448736	2009	73	65.6	169061	0.8993	85	27	New Jersey	Atlantic
340030005		40.89858	-74.0299	2009	-7	-9	169075	0.9023	85	12	New Jersey	Bergen
340030006		40.870422	-73.992053	2009	-7	-9	169075	0.9023	85	12	New Jersey	Bergen
340070003		39.923042	-75.097617	2009	-7	-9	164064	0.8882	85	12	New Jersey	Camden
340071001		39.68425	-74.861491	2009	81	70.4	166063	0.8695	85	10	New Jersey	Camden
340110007		39.422273	-75.025204	2009	78	68.4	165060	0.8775	84	10	New Jersey	Cumberland
340130003		40.721019	-74.192808	2009	-7	-9	168073	0.8921	85	15	New Jersey	Essex
340130011		40.726667	-74.144167	2009	-7	-9	168073	0.8921	85	15		
340130016		40.722222	-74.146944	2009	-7	-9	168073	0.8921	85	15		
340150002		39.800339	-75.212119	2009	83	73.4	163063	0.8845	84	10	New Jersey	Gloucester
340170006		40.67025	-74.126081	2009	80	72.8	169073	0.9108	85	16	New Jersey	Hudson
340190001		40.515253	-74.806753	2009	81	69.5	164070	0.8582	84	10	New Jersey	Hunterdon
340210005		40.2830917	-74.742644	2009	81	69.6	165068	0.8593	85	16	New Jersey	Mercer
340230011		40.462182	-74.429439	2009	80	69.7	167070	0.8723	85	16	New Jersey	Middlesex
340250005		40.278461	-74.005343	2009	81	73.3	170069	0.9055	85	23	New Jersey	Monmouth
340273001		40.787628	-74.676301	2009	79	68.7	165073	0.8704	81	11	New Jersey	Morris
340290006		40.064847	-74.444058	2009	80	69.4	168067	0.8676	85	14	New Jersey	Ocean
340315001		41.052195	-74.256338	2009	76	67	167076	0.8824	84	10	New Jersey	Passaic

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360010012		42.68075	-73.75733	2009	72	63.8	167091	0.887	70	10	New York	Albany
360050080		40.83606	-73.92009	2009	-7	-9	170075	0.9234	85	18		
360050083		40.86585	-73.88083	2009	-7	-9	170075	0.9234	85	18	New York	Bronx
360050110		40.81618	-73.902	2009	72	67.3	170074	0.9359	85	15	New York	Bronx
360050133		40.8679	-73.87809	2009	73	67.4	170075	0.9234	85	18	New York	Bronx
360130006		42.49963	-79.31881	2009	79	69.7	130081	0.8829	85	12	New York	Chautauqua
360130011		42.29071	-79.58961	2009	74	65.7	129079	0.8882	85	13	New York	Chautauqua
360150003		42.11096	-76.80221	2009	69	-9	148081	-9	70	1	New York	Chemung
360270007		41.78555	-73.74136	2009	75	66.8	169083	0.8912	77	10	New York	Dutchess
360290002		42.99328	-78.77153	2009	76	67.6	133086	0.8899	76	10	New York	Erie
360310002		44.36608	-73.90312	2009	76	-9	162106	-9	70	3	New York	Essex
360310003		44.39308	-73.8589	2009	71	-9	162106	-9	70	3	New York	Essex
360337003		44.980577	-74.695005	2009	-7	-9	155110	-9	70	2	New York	Franklin
360410005		43.44957	-74.51625	2009	70	-9	160097	-9	70	2	New York	Hamilton
360430005		43.68578	-74.98538	2009	70	-9	156098	-9	70	2	New York	Herkimer
360450002		44.08747	-75.97316	2009	74	68	149100	0.9193	72	12	New York	Jefferson
360530006		42.73046	-75.78444	2009	71	-9	153088	-9	70	1	New York	Madison
360551007		43.14618	-77.54817	2009	72	65.3	141089	0.907	70	8	New York	Monroe
360610010		40.739444	-73.986111	2009	-7	-9	170074	0.9359	85	15		
360610135		40.81976	-73.94825	2009	-7	-9	170074	0.9359	85	15	New York	New York
360631006		43.22386	-78.47888	2009	73	66.6	134089	0.9131	76	10	New York	Niagara
360650004		43.30268	-75.71978	2009	64	55.5	152094	0.8687	70	5	New York	Oneida
360671015		43.05235	-76.05921	2009	70	60.9	151091	0.8708	70	6	New York	Onondaga
360715001		41.52375	-74.21534	2009	76	66.1	166080	0.8706	74	10	New York	Orange
360750003		43.28428	-76.46324	2009	71	64	147092	0.9022	72	10	New York	Oswego
360790005		41.45589	-73.70977	2009	78	68.8	170080	0.8833	82	10	New York	Putnam
360810098		40.7842	-73.84757	2009	-7	-9	170074	0.9359	85	15		
360810124		40.73614	-73.82153	2009	74	67.5	171074	0.9122	85	18	New York	Queens
360830004		42.78189	-73.46363	2009	73	64.5	168093	0.8843	70	10	New York	Rensselaer
360850067		40.59664	-74.12525	2009	74	66.8	169072	0.9031	85	19	New York	Richmond
360870005		41.18208	-74.02819	2009	-7	-9	168077	0.8806	83	11	New York	Rockland
360910004		43.01209	-73.6489	2009	75	66.7	166094	0.8902	70	8	New York	Saratoga
360930003		42.79901	-73.9389	2009	67	58.9	165092	0.8798	70	7	New York	Schenectady
361010003		42.09142	-77.20978	2009	68	-9	145080	-9	70	1	New York	Steuben
361030002		40.74529	-73.41919	2009	81	73.6	173075	0.9095	85	22	New York	Suffolk

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361030004		40.96078	-72.71238	2009	79	70.3	178078	0.8904	85	22	New York	Suffolk
361030009		40.82799	-73.05754	2009	84	75.6	176076	0.9008	85	27	New York	Suffolk
361111005		42.14403	-74.49431	2009	69	59.7	163085	0.8655	70	6	New York	Ulster
361173001		43.23086	-77.17136	2009	70	63.8	143091	0.9128	77	11	New York	Wayne
361192004		41.05192	-73.76366	2009	83	74.4	170077	0.8975	85	18	New York	Westchester
370030004		35.928999	-81.189758	2009	73	62.7	128019	0.8593	70	8	North Carolina	Alexander
370110002		35.972222	-81.933056	2009	65	-9	123019	-9	70	4	North Carolina	Avery
370210030		35.500102	-82.5998603	2009	69	57.9	118014	0.8402	70	10	North Carolina	Buncombe
370270003		35.935833	-81.530278	2009	71	61.2	126019	0.8623	70	6	North Carolina	Caldwell
370290099		36.326907	-76.121575	2009	-7	-9	164030	0.8919	81	10		
370330001		36.307033	-79.467417	2009	76	64.4	140025	0.8484	71	10	North Carolina	Caswell
370370004		35.757222	-79.159722	2009	69	57.7	143020	0.8367	74	11	North Carolina	Chatham
370510008		35.158686	-78.728035	2009	73	60.4	148016	0.8276	73	11	North Carolina	Cumberland
370511003		34.968889	-78.9625	2009	74	61.7	146014	0.834	72	10	North Carolina	Cumberland
370590002		35.809289	-80.559115	2009	78	66.6	133019	0.8548	73	10	North Carolina	Davie
370610002		34.954823	-77.960781	2009	-7	-9	154015	0.8439	70	12		
370630013		36.035556	-78.904167	2009	-7	-9	145023	0.8262	75	13		
370630015		35.99194	-78.89639	2009	74	61.1	145023	0.8262	75	13	North Carolina	Durham
370650099		35.988333	-77.582778	2009	73	62.6	154025	0.8577	71	10	North Carolina	Edgecombe
370670022		36.110556	-80.226667	2009	76	62.8	135022	0.8272	74	10	North Carolina	Forsyth
370670027		36.236389	-80.410556	2009	-7	-9	133023	0.8483	71	11		
370670028		36.203056	-80.215833	2009	73	61.1	135023	0.8373	73	13	North Carolina	Forsyth
370670030		36.026	-80.342	2009	72	61.6	134021	0.8562	72	15	North Carolina	Forsyth
370671008		36.050833	-80.143889	2009	75	62.5	136022	0.8341	75	10	North Carolina	Forsyth
370690001		36.096189	-78.463719	2009	74	61.1	148025	0.8263	72	10	North Carolina	Franklin
370750001		35.25793	-83.79562	2009	-7	-9	110010	0.843	72	11	North Carolina	Graham
370770001		36.141111	-78.768056	2009	77	63.5	145025	0.8248	73	13	North Carolina	Granville
370810011		36.113333	-79.703889	2009	-7	-9	139023	0.8321	73	10		
370810013		36.109167	-79.801111	2009	79	65.6	138023	0.8309	73	10	North Carolina	Guilford
370870004		35.505278	-82.964722	2009	68	57.7	116013	0.8499	70	8	North Carolina	Haywood
370870035		35.379167	-82.7925	2009	74	63.2	117012	0.855	70	10	North Carolina	Haywood
370870036		35.59	-83.0775	2009	74	62.7	115014	0.8478	70	9	North Carolina	Haywood
370990005		35.524444	-83.236111	2009	-7	-9	114013	0.8503	70	9	North Carolina	Jackson
371010002		35.590833	-78.461944	2009	73	59.9	149020	0.8214	76	10	North Carolina	Johnston
371070004		35.231459	-77.568792	2009	71	60.3	156018	0.8495	71	12	North Carolina	Lenoir

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371090004		35.438556	-81.27675	2009	76	66.8	128015	0.8792	72	14	North Carolina	Lincoln
371170001		35.81069	-76.89782	2009	71	62.2	160024	0.8764	71	11	North Carolina	Martin
371190041		35.2401	-80.785683	2009	82	70.9	132013	0.8652	82	10	North Carolina	Mecklenburg
371191005		35.1131637	-80.9195317	2009	76	66.6	131012	0.8769	78	12	North Carolina	Mecklenburg
371191009		35.347222	-80.695	2009	86	72.9	133015	0.8484	81	10	North Carolina	Mecklenburg
371290002		34.364167	-77.838611	2009	-7	-9	156010	0.8451	75	10	North Carolina	New Hanover
371310002		36.48438	-77.61998	2009	-7	-9	153029	0.873	72	11		
371450003		36.306965	-79.09197	2009	73	61.7	143026	0.8461	73	10	North Carolina	Person
371470006		35.63861	-77.35805	2009	-7	-9	157022	0.8542	72	10	North Carolina	Pitt
371470099		35.583333	-77.598889	2009	-7	-9	155021	0.8411	71	14	North Carolina	Pitt
371510004		35.830556	-79.865278	2009	-7	-9	138020	0.8318	74	10		
371570099		36.308889	-79.859167	2009	78	66.1	137024	0.8477	72	10	North Carolina	Rockingham
371590021		35.551868	-80.395039	2009	-7	-9	135017	0.8518	73	13	North Carolina	Rowan
371590022		35.534482	-80.66756	2009	83	70.4	133016	0.8482	77	10	North Carolina	Rowan
371730002		35.435509	-83.443697	2009	64	54.8	112012	0.8576	70	10	North Carolina	Swain
371790003		34.973889	-80.540833	2009	76	64.1	134011	0.8435	76	14	North Carolina	Union
371830014		35.856111	-78.574167	2009	75	61.4	147022	0.8196	76	10	North Carolina	Wake
371830015		35.790023	-78.619723	2009	-7	-9	147022	0.8196	76	10		
371830016		35.596944	-78.7925	2009	75	61.2	146020	0.8168	76	11	North Carolina	Wake
371830017		35.676389	-78.535278	2009	-7	-9	148021	0.8195	76	11		
371990003		35.737735	-82.285229	2009	-7	-9	120016	0.8464	70	5		
371990004		35.772833	-82.266139	2009	-7	-9	120016	0.8464	70	5	North Carolina	Yancey
380171004		46.933754	-96.85535	2009	55	-9	11111	-9	70	0	North Dakota	Cass
380910001		47.599703	-97.8990088	2009	-7	-9	5117	-9	70	0		
390030002		40.772222	-84.051944	2009	-7	-9	101060	-9	70	2		
390030009		40.771172	-84.052797	2009	72	-9	101060	-9	70	2	Ohio	Allen
390071001		41.959444	-80.5725	2009	80	70.6	123075	0.8826	85	14	Ohio	Ashtabula
390090004		39.307978	-82.118247	2009	72	61.5	116049	0.8548	70	9	Ohio	Athens
390170004		39.383333	-84.544167	2009	78	69.2	99047	0.8883	82	10	Ohio	Butler
390171004		39.53	-84.3925	2009	82	72.2	100048	0.8816	82	10	Ohio	Butler
390230001		40.000833	-83.804444	2009	74	63.5	103053	0.8584	72	10	Ohio	Clark
390230003		39.855556	-83.9975	2009	75	65.9	102052	0.8799	76	10	Ohio	Clark
390250022		39.082319	-84.144193	2009	75	69.2	102045	0.9237	79	11	Ohio	Clermont
390271002		39.43	-83.788611	2009	76	65	104048	0.8554	71	10	Ohio	Clinton
390350034		41.555	-81.575	2009	77	67.8	116070	0.8812	85	12	Ohio	Cuyahoga

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390350064		41.361667	-81.864722	2009	72	65.8	115068	0.9142	75	11	Ohio	Cuyahoga
390355002		41.536667	-81.459167	2009	77	67.9	117070	0.882	85	12	Ohio	Cuyahoga
390410002		40.356638	-83.063962	2009	75	64	108057	0.8534	71	11	Ohio	Delaware
390490028		39.914167	-82.957222	2009	-7	-9	109053	0.8721	70	11	Ohio	Franklin
390490029		40.086667	-82.815556	2009	81	69.3	110055	0.8561	72	12	Ohio	Franklin
390490037		39.965075	-82.955266	2009	73	63.1	109054	0.8653	71	11	Ohio	Franklin
390490081		40.087778	-82.959722	2009	71	60.8	109055	0.8568	72	11	Ohio	Franklin
390550004		41.515	-81.249444	2009	72	62.2	119070	0.8645	76	10	Ohio	Geauga
390570006		39.665556	-83.943333	2009	74	63.7	103050	0.8613	74	11	Ohio	Greene
390610006		39.278499	-84.365974	2009	82	73.2	100046	0.8927	84	10	Ohio	Hamilton
390610010		39.214931	-84.690723	2009	76	67.6	98045	0.8904	79	11	Ohio	Hamilton
390610040		39.128611	-84.504167	2009	80	72.9	100045	0.9121	81	11	Ohio	Hamilton
390810017		40.366104	-80.615002	2009	72	61.7	125060	0.8573	71	11	Ohio	Jefferson
390830002		40.309722	-82.691944	2009	74	62.7	111057	0.848	72	11	Ohio	Knox
390850003		41.673056	-81.4225	2009	74	65.3	117071	0.8827	85	15	Ohio	Lake
390850007		41.7268211	-81.2419586	2009	75	65.9	118072	0.8792	85	15	Ohio	Lake
390853002		41.7225	-81.241944	2009	-7	-9	118072	0.8792	85	15		
390870006		38.520278	-82.666667	2009	73	64	113041	0.8774	73	11	Ohio	Lawrence
390870011		38.629167	-82.4575	2009	72	62	115042	0.8617	73	10	Ohio	Lawrence
390890005		40.026226	-82.433269	2009	73	61.6	113055	0.8443	72	10	Ohio	Licking
390911001		40.303056	-83.553333	2009	-7	-9	105056	0.8627	70	9		
390930018		41.420882	-82.095729	2009	72	64.2	113068	0.8928	84	11	Ohio	Lorain
390950024		41.644167	-83.546667	2009	72	63.2	103069	0.8786	77	10	Ohio	Lucas
390950027		41.494722	-83.718611	2009	72	-9	102067	-9	70	4	Ohio	Lucas
390950034		41.675556	-83.306944	2009	74	64.8	104069	0.8759	82	10	Ohio	Lucas
390950081		41.719444	-83.475	2009	-7	-9	103069	0.8786	77	10	Ohio	Lucas
390970007		39.788611	-83.475833	2009	74	63.6	106052	0.8608	70	6	Ohio	Madison
390990013		41.096111	-80.658611	2009	71	61	123067	0.8593	74	10	Ohio	Mahoning
391030003		41.102778	-81.911667	2009	70	59.7	115065	0.8538	70	9	Ohio	Medina
391030004		41.0604	-81.9239	2009	-7	-9	115065	0.8538	70	9	Ohio	Medina
391090005		40.084722	-84.114722	2009	71	61.6	101054	0.8678	73	10	Ohio	Miami
391130019		39.813889	-84.195	2009	-7	-9	101051	0.8896	79	10		
391130037		39.7850341	-84.134402	2009	74	65.8	101051	0.8896	79	10	Ohio	Montgomery
391331001		41.1825	-81.330278	2009	72	61.1	119067	0.8495	71	10	Ohio	Portage
391351001		39.835556	-84.720833	2009	70	61.6	97051	0.8805	71	10	Ohio	Preble

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391510016		40.827778	-81.378611	2009	75	63.5	119063	0.8478	70	8	Ohio	Stark
391510022		40.7126755	-81.598257	2009	-7	-9	118062	0.8539	70	9	Ohio	Stark
391510023		40.67173	-81.64091	2009	-7	-9	117062	0.8541	70	9	Ohio	Stark
391511009		40.870278	-81.331667	2009	-7	-9	119064	0.8496	70	10		
391514005		40.930833	-81.123611	2009	75	63.5	121065	0.8478	72	10	Ohio	Stark
391530020		41.106111	-81.503889	2009	80	68.7	118066	0.8593	70	11	Ohio	Summit
391550009		41.453889	-80.591667	2009	75	63.7	123070	0.8504	73	13	Ohio	Trumbull
391550011		41.240077	-80.663142	2009	76	65.2	123068	0.8592	75	10	Ohio	Trumbull
391591001		40.4925	-83.264444	2009	-7	-9	106058	0.8544	71	10		
391650007		39.427797	-84.202208	2009	82	73.1	101048	0.8926	82	10	Ohio	Warren
391670004		39.431667	-81.460278	2009	77	65.1	121051	0.8462	71	10	Ohio	Washington
391730003		41.378056	-83.611667	2009	74	64.9	103066	0.8771	70	5	Ohio	Wood
400019009		35.750735	-94.669697	2009	68	-9	28008	-9	70	1	Oklahoma	Adair
400159008		35.111944	-98.252778	2009	-7	-9	1001	-9	70	0	Oklahoma	Caddo
400170101		35.479215	-97.751503	2009	71	62.7	5005	0.884	70	16	Oklahoma	Canadian
400219002		35.85408	-94.985964	2009	68	-9	26008	-9	70	3	Oklahoma	Cherokee
400270049		35.320105	-97.484099	2009	69	60.6	7003	0.879	70	5	Oklahoma	Cleveland
400370144		36.105481	-96.361196	2009	71	63.6	15011	0.8969	72	10	Oklahoma	Creek
400719003		36.662778	-97.074444	2009	-7	-9	10016	0.8864	70	10		
400719010		36.956222	-97.03135	2009	70	62	10018	0.8866	70	9	Oklahoma	Kay
400819005		35.6725	-96.657222	2009	-7	-9	13007	-9	70	3	Oklahoma	Lincoln
400871073		35.159649	-97.473794	2009	68	-9	7002	-9	70	4	Oklahoma	McClain
400979014		36.228408	-95.249943	2009	69	62.2	24012	0.9025	75	10	Oklahoma	Mayes
401019019		35.772608	-95.269908	2009	-7	-9	23008	0.9132	75	10	Oklahoma	Muskogee
401090033		35.477036	-97.494309	2009	73	63.8	7005	0.8746	71	11	Oklahoma	Oklahoma
401090096		35.477801	-97.303044	2009	74	64.8	8005	0.8762	70	9	Oklahoma	Oklahoma
401091037		35.614131	-97.475083	2009	75	65.7	7006	0.8761	73	10	Oklahoma	Oklahoma
401159004		36.922222	-94.838889	2009	67	60.9	26018	0.909	74	10	Oklahoma	Ottawa
401359015		35.581174	-94.830059	2009	66	-9	27006	-9	70	1	Oklahoma	Sequoyah
401430137		36.357438	-95.999247	2009	75	67.2	18013	0.8973	78	12	Oklahoma	Tulsa
401430174		35.953708	-96.004975	2009	67	61.1	18009	0.912	70	9	Oklahoma	Tulsa
401430178		36.133802	-95.764537	2009	72	64.6	20011	0.8977	76	11	Oklahoma	Tulsa
401431127		36.204902	-95.976537	2009	71	63.8	18012	0.8998	78	11	Oklahoma	Tulsa
420010002		39.93	-77.25	2009	73	62.3	149061	0.8541	73	10	Pennsylvania	Adams
420030008		40.465556	-79.961111	2009	77	65.9	129062	0.8561	77	10	Pennsylvania	Allegheny

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420030010		40.4455765	-80.0161549	2009	74	63.3	129062	0.8561	77	10	Pennsylvania	Allegheny
420030067		40.381944	-80.185556	2009	73	63.2	128061	0.8665	73	10	Pennsylvania	Allegheny
420030088		40.472222	-79.82	2009	-7	-9	130062	0.8607	78	10		
420031005		40.617222	-79.732222	2009	82	69.4	131064	0.847	78	11	Pennsylvania	Allegheny
420050001		40.8141826	-79.5647498	2009	77	65.3	131066	0.8488	75	10	Pennsylvania	Armstrong
420070002		40.5625202	-80.5039485	2009	73	62.5	125062	0.8567	73	12	Pennsylvania	Beaver
420070005		40.684722	-80.359722	2009	71	60.3	126063	0.8494	76	11	Pennsylvania	Beaver
420070014		40.7477959	-80.3164417	2009	73	61.5	126064	0.8429	76	10	Pennsylvania	Beaver
420110001		40.511111	-75.786111	2009	-7	-9	158068	0.8621	79	10		
420110006		40.51408	-75.789721	2009	-7	-9	158069	0.8628	77	10	Pennsylvania	Berks
420110009		40.320278	-75.926667	2009	-7	-9	157067	0.8604	79	11		
420110010		40.392694	-75.925222	2009	-7	-9	157067	0.8604	79	11	Pennsylvania	Berks
420110011		40.38335	-75.9686	2009	-7	-9	157067	0.8604	79	11	Pennsylvania	Berks
420130801		40.535278	-78.370833	2009	70	59	140065	0.843	71	11	Pennsylvania	Blair
420170012		40.107222	-74.882222	2009	88	76	165066	0.8642	85	18	Pennsylvania	Bucks
420210011		40.309722	-78.915	2009	67	56.3	137062	0.8403	75	10	Pennsylvania	Cambria
420270100		40.811389	-77.877028	2009	70	59.9	143068	0.857	70	7	Pennsylvania	Centre
420274000		40.774556	-77.622139	2009	-7	-9	145068	0.8546	70	6		
420290050		39.935667	-75.604306	2009	-7	-9	160064	0.8646	78	12		
420290100		39.8344606	-75.7682421	2009	77	66.2	159062	0.8605	80	14	Pennsylvania	Chester
420334000		41.1175	-78.526194	2009	71	62.2	138070	0.877	70	8	Pennsylvania	Clearfield
420430401		40.245	-76.844722	2009	74	62.7	151064	0.8478	77	10	Pennsylvania	Dauphin
420431100		40.272222	-76.681389	2009	74	62.3	152065	0.842	78	11	Pennsylvania	Dauphin
420450002		39.835556	-75.3725	2009	77	67.4	162063	0.8755	83	10	Pennsylvania	Delaware
420490003		42.14175	-80.038611	2009	75	66.6	126077	0.8886	85	14	Pennsylvania	Erie
420550001		39.961111	-77.475556	2009	69	59.1	147061	0.8577	72	10	Pennsylvania	Franklin
420590002		39.80933	-80.26567	2009	72	60.8	128056	0.845	72	10	Pennsylvania	Greene
420630004		40.56333	-78.919972	2009	73	62.1	136064	0.8517	76	10	Pennsylvania	Indiana
420690101		41.479116	-75.578186	2009	71	60.1	157077	0.8475	70	9	Pennsylvania	Lackawanna
420692006		41.442778	-75.623056	2009	71	60.1	157077	0.8475	70	9	Pennsylvania	Lackawanna
420710007		40.046667	-76.283333	2009	77	65.5	155064	0.8513	82	10	Pennsylvania	Lancaster
420710012		40.043833	-76.1124	2009	-7	-9	157064	0.8632	78	10	Pennsylvania	Lancaster
420730015		40.9958484	-80.3464419	2009	69	59.4	126066	0.8618	73	14	Pennsylvania	Lawrence
420770004		40.611944	-75.4325	2009	76	65.7	160070	0.8652	78	10	Pennsylvania	Lehigh
420791100		41.209167	-76.003333	2009	66	56.8	155074	0.8607	71	11	Pennsylvania	Luzerne

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420791101		41.265556	-75.846389	2009	69	58.7	156075	0.8518	71	11	Pennsylvania	Luzerne
420810100		41.2508	-76.9238	2009	74	63.6	149073	0.8599	70	9	Pennsylvania	Lycoming
420810403		41.246111	-76.989722	2009	-7	-9	148073	0.8555	70	8		
420814000		41.334056	-77.449083	2009	-7	-9	145073	0.865	70	5		
420850100		41.2150135	-80.4847787	2009	77	66.1	124068	0.8597	74	10	Pennsylvania	Mercer
420890001		40.8600037	-75.4296144	2009	-7	-9	159072	0.8688	75	10		
420890002		41.08306	-75.32328	2009	69	60.1	160074	0.8718	75	11	Pennsylvania	Monroe
420910013		40.112222	-75.309167	2009	79	70	162066	0.8865	82	12	Pennsylvania	Montgomery
420950025		40.628056	-75.341111	2009	75	64.6	161070	0.8623	79	10	Pennsylvania	Northampton
420950100		40.676667	-75.216667	2009	-7	-9	161071	0.8694	79	10		
420958000		40.692224	-75.237156	2009	73	63.4	161071	0.8694	79	10	Pennsylvania	Northampton
420990301		40.456944	-77.165556	2009	72	61.4	148066	0.8531	72	10	Pennsylvania	Perry
421010004		40.008889	-75.097778	2009	64	56.1	164065	0.8774	85	15	Pennsylvania	Philadelphia
421010014		40.05	-75.240556	2009	-7	-9	163065	0.8798	85	11	Pennsylvania	Philadelphia
421010024		40.076389	-75.011944	2009	84	73.1	164066	0.8703	85	16	Pennsylvania	Philadelphia
421010136		39.9275	-75.222778	2009	-7	-9	163064	0.8893	84	11	Pennsylvania	Philadelphia
421174000		41.644722	-76.939167	2009	70	-9	148077	-9	70	3	Pennsylvania	Tioga
421250005		40.146667	-79.902222	2009	72	62.1	130059	0.8635	73	10	Pennsylvania	Washington
421250200		40.170556	-80.261389	2009	68	58.1	128059	0.8549	71	10	Pennsylvania	Washington
421255001		40.445278	-80.420833	2009	72	61.8	126061	0.8587	73	10	Pennsylvania	Washington
421290006		40.428076	-79.6928114	2009	71	60.8	131062	0.8568	78	10	Pennsylvania	Westmoreland
421290008		40.304694	-79.505667	2009	72	60.9	133061	0.847	77	10	Pennsylvania	Westmoreland
421330008		39.965278	-76.699444	2009	77	64.4	153062	0.8367	81	10	Pennsylvania	York
421330011		39.86097	-76.462055	2009	-7	-9	155062	0.854	83	10	Pennsylvania	York
440030002		41.6156	-71.7199	2009	77	68.2	183085	0.8865	85	11	Rhode Island	Kent
440071010		41.84092	-71.36094	2009	77	68.6	184088	0.8914	85	12	Rhode Island	Providence
440090007		41.491667	-71.427778	2009	77	69.9	185085	0.9087	85	14	Rhode Island	Washington
450010001		34.325318	-82.386376	2009	72	60.9	122003	0.8468	70	9	South Carolina	Abbeville
450070003		34.776927	-82.490386	2009	-7	-9	120007	0.8541	72	13		
450070005		34.6232364	-82.5320592	2009	-7	-9	120006	0.8525	72	10	South Carolina	Anderson
450210002		35.130396	-81.816567	2009	68	59.2	125011	0.8714	73	10	South Carolina	Cherokee
450230002		34.79297	-81.203724	2009	-7	-9	130009	0.8591	75	12	South Carolina	Chester
450250001		34.615367	-80.198787	2009	70	60	138009	0.858	70	11	South Carolina	Chesterfield
450310003		34.285696	-79.744859	2009	71	59.8	142006	0.8436	70	9	South Carolina	Darlington
450450016		34.7518481	-82.2567013	2009	-7	-9	122007	0.8578	72	10	South Carolina	Greenville

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Year												
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450451003		35.0573946	-82.3728808	2009	-7	-9	121010	0.8672	71	11	South Carolina	Greenville
450730001		34.805261	-83.2377	2009	71	60.4	115006	0.8512	71	13	South Carolina	Oconee
450770002		34.653606	-82.838659	2009	75	64.2	118006	0.8564	71	12	South Carolina	Pickens
450790007		34.093959	-80.962304	2009	-7	-9	133003	0.8307	72	10	South Carolina	Richland
450790021		33.81468	-80.781135	2009	67	56.1	135001	0.8379	72	10	South Carolina	Richland
450791001		34.131262	-80.868318	2009	74	61.4	133003	0.8307	72	10	South Carolina	Richland
450830009		34.988706	-82.075802	2009	78	67.2	123010	0.8624	73	11	South Carolina	Spartanburg
450870001		34.539378	-81.560354	2009	-7	-9	127006	0.851	71	10	South Carolina	Union
450890001		33.723808	-79.565096	2009	-7	-9	144001	-9	70	2	South Carolina	Williamsburg
450910006		34.935817	-81.228409	2009	72	62	129010	0.8615	75	11	South Carolina	York
460990007		43.537626	-96.682001	2009	-7	-9	13079	-9	70	0	South Dakota	Minnehaha
460990008		43.54792	-96.700769	2009	-7	-9	13079	-9	70	0	South Dakota	Minnehaha
461270003		42.880212	-96.785339	2009	-7	-9	12073	-9	70	0	South Dakota	Union
470010101		35.9632729	-84.2232337	2009	72	59.2	106016	0.8227	75	12	Tennessee	Anderson
470090101		35.6314897	-83.9435125	2009	79	67.1	108013	0.8498	73	11	Tennessee	Blount
470090102		35.603056	-83.783611	2009	69	58.4	109013	0.8464	72	12	Tennessee	Blount
470370011		36.205	-86.744722	2009	67	55.1	87016	0.8237	78	10	Tennessee	Davidson
470370026		36.150742	-86.623301	2009	70	58.2	88015	0.8324	77	10	Tennessee	Davidson
470651011		35.233527	-85.181806	2009	75	62.8	99008	0.8374	77	12	Tennessee	Hamilton
470654003		35.102638	-85.162194	2009	79	65.7	100007	0.8328	77	10	Tennessee	Hamilton
470750003		35.4817445	-89.1711626	2009	-7	-9	69007	-9	70	3	Tennessee	Haywood
470890002		36.114535	-83.6010012	2009	76	62.5	110018	0.8234	75	10	Tennessee	Jefferson
470930021		36.085508	-83.764806	2009	77	62.9	109018	0.8178	75	10	Tennessee	Knox
470931020		36.019186	-83.87381	2009	82	66.8	108017	0.8157	77	11	Tennessee	Knox
470990002		35.1162235	-87.4700102	2009	-7	-9	82005	0.8608	70	6	Tennessee	Lawrence
471050109		35.7209322	-84.3415806	2009	77	64.1	105014	0.8331	75	15	Tennessee	Loudon
471210104		35.2889973	-84.9460437	2009	74	61.9	101009	0.8377	74	13	Tennessee	Meigs
471410004		36.2050905	-85.39939	2009	-7	-9	97017	0.8491	70	5	Tennessee	Putnam
471490101		35.732878	-86.5988723	2009	74	62.4	88012	0.8437	70	14	Tennessee	Rutherford
471550101		35.696667	-83.609722	2009	79	65.7	111014	0.8324	73	10	Tennessee	Sevier
471550102		35.562778	-83.498056	2009	-7	-9	112013	0.8508	72	10	Tennessee	Sevier
471570021		35.2175	-90.019444	2009	78	67.6	63004	0.8668	77	10	Tennessee	Shelby
471571004		35.377222	-89.832222	2009	75	63.1	64006	0.8426	73	10	Tennessee	Shelby
471632002		36.5411927	-82.4259641	2009	76	68.1	118023	0.8964	73	13	Tennessee	Sullivan
471632003		36.582222	-82.485833	2009	75	67.3	118024	0.8984	73	12	Tennessee	Sullivan

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471650007		36.297778	-86.652778	2009	78	64.1	87017	0.8226	75	10	Tennessee	Sumner
471650101		36.4539752	-86.5641491	2009	72	60	88018	0.8341	74	12	Tennessee	Sumner
471870106		35.951944	-87.137222	2009	72	59.5	84013	0.8274	73	10	Tennessee	Williamson
471890103		36.0603715	-86.2860846	2009	76	63.6	90015	0.8372	73	10	Tennessee	Wilson
500030004		42.88759	-73.24984	2009	71	62.1	169094	0.8747	70	9	Vermont	Bennington
500070007		44.52839	-72.86884	2009	69	-9	168109	-9	70	0	Vermont	Chittenden
510030001		38.076388	-78.503888	2009	-7	-9	144042	0.8691	70	7	Virginia	Albemarle
510130020		38.8575	-77.059167	2009	79	66.1	152052	0.8373	84	11	Virginia	Arlington
510330001		38.203056	-77.377222	2009	74	62.7	151045	0.8476	74	11	Virginia	Caroline
510360002		37.343294	-77.260034	2009	77	68.2	154038	0.8864	79	10	Virginia	Charles
510410004		37.358889	-77.593611	2009	74	64.4	152037	0.8709	76	10	Virginia	Chesterfield
510590005		38.893889	-77.465278	2009	73	61.9	150051	0.8486	81	12	Virginia	Fairfax
510590018		38.7425	-77.0775	2009	80	69	153051	0.8625	85	10	Virginia	Fairfax
510590030		38.772778	-77.105556	2009	80	68.2	152051	0.8528	82	11	Virginia	Fairfax
510591004		38.868056	-77.143056	2009	-7	-9	152052	0.8373	84	11		
510591005		38.837517	-77.163231	2009	78	66.5	152051	0.8528	82	11	Virginia	Fairfax
510595001		38.931944	-77.198889	2009	77	64.2	151052	0.835	82	10	Virginia	Fairfax
510610002		38.475	-77.767778	2009	66	55.7	148047	0.8454	71	11	Virginia	Fauquier
510690010		39.282778	-78.081389	2009	69	60	144054	0.8698	70	11	Virginia	Frederick
510850001		37.637778	-77.316389	2009	-7	-9	153040	0.8824	75	11		
510850003		37.606056	-77.218769	2009	75	65.9	154040	0.8792	75	14	Virginia	Hanover
510870014		37.558333	-77.400278	2009	78	68.5	153039	0.8784	78	10	Virginia	Henrico
511071005		39.024444	-77.49	2009	77	63.5	149052	0.8257	80	10	Virginia	Loudoun
511130003		38.521944	-78.436111	2009	73	-9	143047	-9	70	2	Virginia	Madison
511390004		38.663333	-78.504722	2009	66	-9	143048	-9	70	3	Virginia	Page
511530009		38.855278	-77.635556	2009	71	60.7	148051	0.8557	76	10	Virginia	Prince William
511611004		37.285556	-79.884167	2009	70	-9	135033	-9	70	2	Virginia	Roanoke
511630003		37.626111	-79.513056	2009	64	-9	137037	-9	70	2	Virginia	Rockbridge
511650003		38.47732	-78.81904	2009	67	-9	141046	-9	70	0	Virginia	Rockingham
511790001		38.483056	-77.370278	2009	72	61.3	151048	0.8516	85	13	Virginia	Stafford
511970002		36.893056	-81.255	2009	67	-9	126028	-9	70	4	Virginia	Wythe
515100009		38.810833	-77.044722	2009	75	64.6	153051	0.8625	85	10	Virginia	Alexandria City
516500004		37.003333	-76.399167	2009	-7	-9	161036	0.9185	85	13	Virginia	Hampton City
517000013		37.0998	-76.48105	2009	-7	-9	160037	0.9244	85	14	Virginia	Newport News City
518000004		36.903333	-76.438611	2009	72	66.4	161035	0.9226	82	13	Virginia	Suffolk City

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Year												
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518000005		36.6675	-76.731389	2009	73	64.6	159032	0.8858	74	13	Virginia	Suffolk City
540030003		39.448006	-77.964125	2009	70	60.4	145056	0.8631	71	11	West Virginia	Berkeley
540110006		38.424133	-82.4259	2009	73	64	115040	0.8776	73	12	West Virginia	Cabell
540250003		37.908533	-80.632633	2009	68	-9	129038	-9	70	2	West Virginia	Greenbrier
540291004		40.4215389	-80.5807174	2009	74	63.8	125061	0.8624	73	11	West Virginia	Hancock
540390010		38.3456	-81.628317	2009	73	62.9	121041	0.863	74	10	West Virginia	Kanawha
540610003		39.649367	-79.920867	2009	69	60.2	131055	0.8729	76	10	West Virginia	Monongalia
540690010		40.1148756	-80.7009723	2009	74	62.8	125058	0.849	71	10	West Virginia	Ohio
541071002		39.323533	-81.552367	2009	72	60.3	120050	0.8375	72	10	West Virginia	Wood
550030010		46.61455	-90.69868	2009	59	-9	51109	-9	70	0	Wisconsin	Ashland
550090026		44.53	-87.908889	2009	70	61.9	70091	0.8853	70	5	Wisconsin	Brown
550210015		43.314444	-89.108889	2009	67	-9	63079	-9	70	3	Wisconsin	Columbia
550250041		43.100833	-89.357222	2009	68	-9	62077	-9	70	3	Wisconsin	Dane
550270007		43.435	-88.527778	2009	68	-9	67081	-9	70	2	Wisconsin	Dodge
550290004		45.237778	-86.993611	2009	78	68.7	76098	0.8809	80	10	Wisconsin	Door
550370001		45.795556	-88.400556	2009	63	-9	66103	-9	70	1	Wisconsin	Florence
550390006		43.687778	-88.421944	2009	67	-9	68083	-9	70	3	Wisconsin	Fond du Lac
550410007		45.56498	-88.80859	2009	65	-9	64100	-9	70	0	Wisconsin	Forest
550450001		42.533889	-89.659444	2009	-7	-9	60072	-9	70	2		
550550002		43.001389	-88.812222	2009	69	61.2	66077	0.8872	70	5	Wisconsin	Jefferson
550590002		42.559167	-87.826111	2009	-7	-9	73073	0.9069	84	11		
550590019		42.504722	-87.8093	2009	76	68.9	73073	0.9069	84	11	Wisconsin	Kenosha
550590022		42.652778	-87.849444	2009	-7	-9	73074	0.9021	84	10		
550610002		44.442778	-87.506111	2009	73	65.9	73091	0.9035	76	11	Wisconsin	Kewaunee
550630012		43.778	-91.225	2009	-7	-9	49083	-9	70	1	Wisconsin	La Crosse
550710004		44.0825	-87.968611	2009	-7	-9	70087	0.8876	70	7		
550710007		44.138611	-87.616111	2009	75	67.9	73088	0.9058	78	10	Wisconsin	Manitowoc
550730012		44.707222	-89.769722	2009	65	-9	58092	-9	70	1	Wisconsin	Marathon
550790010		43.016667	-87.933333	2009	64	57.9	72077	0.9059	78	11	Wisconsin	Milwaukee
550790026		43.061111	-87.9125	2009	68	61.7	72078	0.9077	79	11	Wisconsin	Milwaukee
550790041		43.075278	-87.884444	2009	70	63.5	72078	0.9077	79	11	Wisconsin	Milwaukee
550790044		43.092778	-88.005556	2009	-7	-9	71078	0.919	71	11		
550790048		42.981944	-87.964722	2009	-7	-9	71077	0.8999	71	10		
550790085		43.181111	-87.900556	2009	74	67.3	72079	0.9105	79	12	Wisconsin	Milwaukee
550791025		42.896389	-87.878056	2009	-7	-9	72076	0.9073	78	10		

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550850004		45.678056	-89.632222	2009	65	-9	58101	-9	70	1	Wisconsin	Oneida
550870009		44.306944	-88.395556	2009	67	-9	67089	-9	70	1	Wisconsin	Outagamie
550890008		43.343056	-87.920833	2009	71	65	71080	0.9157	75	10	Wisconsin	Ozaukee
550890009		43.498056	-87.81	2009	73	65.8	72082	0.9023	81	10	Wisconsin	Ozaukee
551010017		42.713889	-87.798611	2009	71	63.8	73075	0.8991	85	10	Wisconsin	Racine
551050021		42.776111	-88.962778	2009	-7	-9	65075	0.8834	70	5		
551050024		42.50889	-89.05667	2009	69	-9	64072	-9	70	3	Wisconsin	Rock
551091002		45.124444	-92.6625	2009	66	-9	39094	-9	70	0	Wisconsin	St. Croix
551110007		43.435556	-89.680278	2009	64	-9	60080	-9	70	4	Wisconsin	Sauk
551170006		43.666944	-87.716389	2009	79	71.6	72084	0.9066	79	10	Wisconsin	Sheboygan
551170007		43.718333	-87.813056	2009	-7	-9	72084	0.9066	79	10		
551230008		43.702222	-90.568333	2009	65	-9	53082	-9	70	1	Wisconsin	Vernon
551250001		46.048056	-89.653611	2009	65	-9	58104	-9	70	0	Wisconsin	Vilas
551270005		42.58	-88.499167	2009	69	61.8	68073	0.8961	70	5	Wisconsin	Walworth
551310009		43.327222	-88.220278	2009	65	57.5	69080	0.8852	70	7	Wisconsin	Washington
551330017		43.003889	-88.231944	2009	-7	-9	70077	0.9032	70	7		
551330027		43.020278	-88.215	2009	63	56.9	70077	0.9032	70	7	Wisconsin	Waukesha
551390011		44.075278	-88.529722	2009	-7	-9	67087	0.8892	70	6		

ALPINE GEOPHYSICS

ENVIRON

Appendix B

MATS 2.3.1 Output Files; Annual PM2.5 Business As Usual Runs

ALPINE GEOPHYSICS

ENVIRON

Table B-1. MATS 2.3.1 Output Files; 2014 Annual PM2.5 Business As Usual Runs

MATS 2.3.1 - Ouput File - Annual PM-2.5
2014 Business As Usual Scenario

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10331002	FRM	Alabama	Colbert	34.760556	-87.650556	81002	12.21	10.72	0.5	0.4155	0.3731	1.2555	4.2836	4.0306	0.1708
10890014	FRM	Alabama	Madison	34.68767	-86.58637	89002	12.92	11.07	0.5	0.426	0.4374	1.5757	3.803	4.3856	0.2669
11030011	FRM	Alabama	Morgan	34.518735	-86.976939	88001	12.7	11.01	0.5	0.3407	0.3701	1.3654	4.3103	4.3552	0.1729
50350005	FRM	Arkansas	Crittenden	35.197288	-90.193141	62004	12.43	11.13	0.5	0.7437	0.9614	1.2988	3.7265	3.6838	0.2874
50450002	FRM	Arkansas	Faulkner	35.105193	-92.427859	45002	11.69	10.78	0.5	0.7474	0.5412	1.009	4.7784	2.9084	0.2687
50670001	FRM	Arkansas	Jackson	35.638169	-91.189506	54008	11.42	10.24	0.5	0.7202	0.6497	1.2721	3.1649	3.5512	0.3659
51150003	FRM	Arkansas	Pope	35.259775	-93.10005	40003	12.11	11.25	0.5	0.6791	0.4036	0.9843	5.5348	2.8666	0.2175
51190007	FRM	Arkansas	Pulaski	34.756189	-92.281296	47001	12.18	11.18	0.5	0.8831	0.6519	1.0386	4.8272	3.0637	0.2553
51310008	FRM	Arkansas	Sebastian	35.389672	-94.424288	30004	11.47	10.71	0.5	0.6297	0.3304	0.9596	5.1753	2.7071	0.2661
51450001	FRM	Arkansas	White	35.24894	-91.715596	50004	11.19	10.31	0.5	0.4968	0.3514	0.9326	5.1609	2.5997	0.279
90010010	FRM	Connecticut	Fairfield	41.170833	-73.194722	174079	12.35	11.36	0.5	0.4262	0.8165	1.293	4.172	3.4257	0.5449
90011123	FRM	Connecticut	Fairfield	41.399167	-73.443056	172080	11.99	11	0.5	0.4029	0.6866	1.2204	4.3085	3.2906	0.4602
90013005	FRM	Connecticut	Fairfield	41.1125	-73.407222	173078	11.8	10.81	0.5	0.4766	0.8965	1.3564	3.2573	3.4776	0.6245
90019003	FRM	Connecticut	Fairfield	41.118333	-73.336667	173078	10.61	9.67	0.5	0.4335	0.8256	1.2472	2.667	3.2637	0.5309
90031003	FRM	Connecticut	Hartford	41.784722	-72.631667	176085	10.08	9.25	0.5	0.3013	0.4587	0.93	4.0141	2.7431	0.2931
90050005	FRM	Connecticut	Litchfield	41.821389	-73.297222	172084	7.33	6.63	0.5	0.3024	0.2917	0.8153	2.0253	2.4917	0.0924
90090026	FRM	Connecticut	New Haven	41.291111	-72.894167	176080	11.61	10.64	0.5	0.4088	0.8546	1.3102	3.3284	3.5498	0.4776
90090027	FRM	Connecticut	New Haven	41.301111	-72.902778	175080	11.65	10.68	0.5	0.3936	0.8216	1.2649	3.6304	3.4746	0.418
90091123	FRM	Connecticut	New Haven	41.310833	-72.916944	175081	12.24	11.22	0.5	0.4229	0.8362	1.3181	3.8939	3.4585	0.6487
90092008	FRM	Connecticut	New Haven	41.331389	-72.919722	175081	10.72	9.73	0.5	0.4076	0.8203	1.2819	2.574	3.4294	0.5598
90092123	FRM	Connecticut	New Haven	41.550556	-73.043611	174082	11.86	10.92	0.5	0.3734	0.644	1.1455	4.6199	3.1097	0.4362
90113002	FRM	Connecticut	New London	41.524167	-72.076667	180084	10.11	9.24	0.5	0.3186	0.5179	0.9965	3.6535	2.8451	0.3548
100010002	FRM	Delaware	Kent	38.984722	-75.555556	163055	11.77	10.25	0.5	0.3146	0.4045	1.5082	3.0945	3.9269	0.696
100010003	FRM	Delaware	Kent	39.155	-75.518056	163057	11.71	10.29	0.5	0.2921	0.3719	1.5144	3.0754	3.9375	0.6956
100031003	FRM	Delaware	New Castle	39.761111	-75.491944	161062	12.91	11.46	0.5	0.7721	0.6821	1.7177	2.6698	4.1471	0.9435
100031007	FRM	Delaware	New Castle	39.551111	-75.730833	160060	11.79	10.28	0.5	0.5503	0.5428	1.6437	2.3517	3.8903	0.9224
100031012	FRM	Delaware	New Castle	39.691944	-75.761667	160061	12.87	11.29	0.5	0.539	0.561	1.8121	2.7262	4.1143	1.1453
100032004	FRM	Delaware	New Castle	39.739444	-75.558056	161062	14.17	12.64	0.5	0.8705	0.735	1.8327	3.3272	4.3284	1.0236
100051002	FRM	Delaware	Sussex	38.644444	-75.613056	163052	12.72	11.1	0.5	0.3948	0.5133	1.521	3.7113	4.1011	0.6277
110010041	FRM	District Of Columbia	District of Columbia	38.897222	-76.952778	153052	13.01	11.11	0.5	0.5426	0.7355	1.5573	3.4205	4.3358	0.5564
110010042	FRM	District Of Columbia	District of Columbia	38.880833	-77.0325	153052	13.1	11.23	0.5	0.7041	0.993	1.4973	3.4503	4.1642	0.4789
110010043	FRM	District Of Columbia	District of Columbia	38.921847	-77.013178	153052	12.53	10.62	0.5	0.4547	0.5974	1.611	2.9458	4.3893	0.6153
131390003	FRM	Georgia	Hall	34.300342	-83.8139	111001	13.03	11.08	0.5	0.4709	0.5519	1.2884	4.8349	4.0195	0.1276
170190004	FRM	Illinois	Champaign	40.123796	-88.229531	72051	11.73	10.47	0.5	0.5214	0.4429	1.5275	3.0259	3.3402	1.1959
170191001	FRM	Illinois	Champaign	40.052242	-88.372549	71050	11.74	10.48	0.5	0.5265	0.436	1.5311	3.0257	3.3541	1.1913
170310022	FRM	Illinois	Cook	41.687165	-87.539315	76065	13.83	12.9	0.5	0.6363	0.8304	1.577	4.3228	3.2741	1.4491
170310050	FRM	Illinois	Cook	41.70757	-87.568574	75066	13.09	12.11	0.5	0.5807	0.7676	1.453	4.3055	3.0535	1.2786
170310052	FRM	Illinois	Cook	41.965485	-87.749928	74068	14.05	12.99	0.5	0.5798	0.6794	1.4062	5.3562	2.8785	1.5599
170310057	FRM	Illinois	Cook	41.912862	-87.722723	74067	13.57	12.43	0.5	0.6173	0.7201	1.463	4.489	3.0058	1.6364
170310076	FRM	Illinois	Cook	41.7514	-87.713488	74066	13.22	12.17	0.5	0.4593	0.6336	1.3299	5.3958	2.8699	0.9771
170312001	FRM	Illinois	Cook	41.662109	-87.696467	74065	13.33	12.25	0.5	0.4868	0.6453	1.4101	5.0736	2.9684	1.1503
170313301	FRM	Illinois	Cook	41.782766	-87.805377	74066	13.52	12.46	0.5	0.4798	0.6413	1.3525	5.4894	2.8809	1.1199
170314007	FRM	Illinois	Cook	42.060285	-87.863225	73069	11.81	10.79	0.5	0.4626	0.58	1.4963	3.0453	2.9889	1.6355
170314201	FRM	Illinois	Cook	42.139996	-87.799227	73069	11.71	10.7	0.5	0.4368	0.5594	1.4941	3.0579	3.0042	1.5709
170434002	FRM	Illinois	DuPage	41.771071	-88.152534	71066	12.57	11.54	0.5	0.396	0.52	1.4987	4.0888	2.8948	1.6129
170650002	FRM	Illinois	Hamilton	38.082155	-88.624943	71032	12.34	10.89	0.5	0.5133	0.4611	1.6107	3.0048	4.009	0.874
170831001	FRM	Illinois	Jersey	39.110539	-90.32408	58040	11.62	10.4	0.5	0.5154	0.4349	1.5361	2.8052	3.495	1.1304
170890003	FRM	Illinois	Kane	42.050403	-88.280015	70068	11.92	10.87	0.5	0.4537	0.5404	1.4599	3.3929	2.8911	1.6072
170890007	FRM	Illinois	Kane	41.784717	-88.329374	70066	12.49	11.49	0.5	0.382	0.4894	1.423	4.3927	2.7431	1.5555
170971007	FRM	Illinois	Lake	42.467573	-87.810047	73072	10.62	9.7	0.5	0.2955	0.3564	1.3858	2.6039	2.9509	1.5458
171110001	FRM	Illinois	McHenry	42.221442	-88.242207	70070	11.15	10.19	0.5	0.4133	0.4707	1.4279	2.8977	2.8133	1.6092
171132003	FRM	Illinois	McLean	40.518735	-88.996896	67054	11.49	10.35	0.5	0.5044	0.4214	1.504	2.9337	3.1678	1.3248
171150013	FRM	Illinois	Macon	39.866834	-88.925594	68048	12.72	11.42	0.5	0.5653	0.4143	1.6951	3.207	3.5766	1.4752
171191007	FRM	Illinois	Madison	38.704534	-90.139675	60036	15.71	14.39	0.5	0.5192	0.448	1.5221	6.8277	3.5988	1.0619
171192009	FRM	Illinois	Madison	38.903085	-90.143168	60038	13.47	12.15	0.5	0.55	0.4693	1.6942	3.8696	3.8309	1.2327
171193007	FRM	Illinois	Madison	38.860669	-90.105851	60038	13.17	11.89	0.5	0.5148	0.4419	1.5856	4.1034	3.6245	1.1356
171430037	FRM	Illinois	Peoria	40.697007	-89.584737	62055	12.09	11.07	0.5	0.4799	0.3874	1.4521	3.8128	3.0271	1.3201

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_id	_type	_STATE_NAME	_COUNTY_NAME	monitor_lat	monitor_long	monitor_gridcell	b_pm25_ann_DV	f_pm25_ann_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
171570001	FRM	Illinois	Randolph	38.176278	-89.788459	63032	12.01	10.8	0.5	0.5349	0.3995	1.39	3.648	3.5546	0.8219
171613002	FRM	Illinois	Rock Island	41.514727	-90.51735	55062	11.16	10.12	0.5	0.4908	0.3532	1.4488	2.8656	2.9017	1.4475
171630010	FRM	Illinois	Saint Clair	38.612034	-90.160477	60036	14.21	12.99	0.5	0.5152	0.4441	1.3824	5.9269	3.3988	0.9354
171634001	FRM	Illinois	Saint Clair	38.529631	-89.99285	61035	13.09	11.87	0.5	0.5107	0.4326	1.3768	4.809	3.423	0.9082
171670012	FRM	Illinois	Sangamon	39.831921	-89.644164	62047	11.88	10.66	0.5	0.5112	0.3904	1.5284	3.2147	3.2841	1.2694
171971002	FRM	Illinois	Will	41.526885	-88.116474	72064	12.8	11.72	0.5	0.4727	0.5982	1.5458	3.9305	3.1236	1.4709
171971011	FRM	Illinois	Will	41.221537	-88.190967	71061	10.73	9.68	0.5	0.5263	0.6767	1.4181	2.2825	2.9856	1.2224
172010013	FRM	Illinois	Winnebago	42.263081	-89.092767	64070	11.82	10.93	0.5	0.4224	0.3937	1.27	4.3875	2.4456	1.4843
180030004	FRM	Indiana	Allen	41.094722	-85.101944	93062	12.32	11.24	0.5	0.4314	0.4199	1.47	3.8183	2.9861	1.5835
180190006	FRM	Indiana	Clark	38.277675	-85.740153	92036	15.27	13.46	0.5	0.5634	0.6538	1.8367	4.6545	4.6641	0.8002
180350006	FRM	Indiana	Delaware	40.201141	-85.387999	92054	12.25	10.98	0.5	0.3579	0.3551	1.6201	3.2587	3.7591	1.0896
180370005	FRM	Indiana	Dubois	38.404778	-86.928322	83036	13.71	12	0.5	0.3885	0.4539	2.1594	2.2135	5.0626	1.1615
180431004	FRM	Indiana	Floyd	38.308056	-85.834167	91036	13.57	11.84	0.5	0.5662	0.6395	1.7786	3.2542	4.5515	0.6824
180670003	FRM	Indiana	Howard	40.485479	-86.132879	86056	12.44	11.19	0.5	0.4299	0.5192	1.6289	3.1661	3.6175	1.2867
180830004	FRM	Indiana	Knox	38.740882	-87.484733	79038	12.85	11.42	0.5	0.4198	0.4457	1.7967	2.9282	4.2825	0.9862
180890006	FRM	Indiana	Lake	41.636127	-87.440843	76065	13.19	12.22	0.5	0.6965	0.891	1.6598	3.1646	3.3955	1.5859
180890027	FRM	Indiana	Lake	41.546593	-87.426481	76064	12.38	11.43	0.5	0.6648	0.8418	1.5981	2.7325	3.291	1.5101
180890031	FRM	Indiana	Lake	41.598505	-87.342991	77065	13.33	12.43	0.5	0.8609	1.3501	1.5292	3.2353	3.2727	1.2705
180892004	FRM	Indiana	Lake	41.585496	-87.474486	76065	12.71	11.8	0.5	0.6232	0.7024	1.625	3.1342	3.3215	1.5739
180892010	FRM	Indiana	Lake	41.678349	-87.508345	76065	12.93	11.98	0.5	0.6745	0.8716	1.6143	3.1585	3.3735	1.4579
180910011	FRM	Indiana	LaPorte	41.707212	-86.891216	80066	11.52	10.58	0.5	0.6316	0.9351	1.3726	2.7505	2.9418	1.2521
180950009	FRM	Indiana	Madison	40.111975	-85.679952	90052	12.58	11.27	0.5	0.3583	0.3581	1.6627	3.3856	3.8446	1.1334
180970078	FRM	Indiana	Marion	39.811097	-86.114469	87049	14.31	12.84	0.5	0.4559	0.6272	1.8936	3.6257	4.4364	1.2144
180970081	FRM	Indiana	Marion	39.788903	-86.214628	87049	14.68	13.26	0.5	0.4442	0.6179	1.8449	4.2647	4.3066	1.2054
180970083	FRM	Indiana	Marion	39.774979	-86.12202	87049	14.41	12.99	0.5	0.439	0.6058	1.8286	4.0759	4.29	1.1726
181270024	FRM	Indiana	Porter	41.6175	-87.199167	78065	12.16	11.23	0.5	0.8112	1.2858	1.4158	2.6825	3.1013	1.1168
181410014	FRM	Indiana	St. Joseph	41.66346	-86.207826	85066	12.02	11.14	0.5	0.3841	0.4771	1.286	4.4149	2.505	1.5135
181470009	FRM	Indiana	Spencer	38.167523	-86.983214	83034	12.97	11.29	0.5	0.3808	0.4414	1.9418	2.3791	4.7688	0.9002
181570008	FRM	Indiana	Tippecanoe	40.431639	-86.8525	82054	12.2	10.92	0.5	0.515	0.6515	1.6146	2.7836	3.5661	1.2753
181630006	FRM	Indiana	Vanderburgh	37.971727	-87.567236	79031	13.4	12.07	0.5	0.4005	0.4459	1.5757	4.3932	3.9325	0.8049
181630012	FRM	Indiana	Vanderburgh	38.021667	-87.569444	79032	13.66	12.32	0.5	0.4079	0.4573	1.5932	4.5495	3.9725	0.8257
181630016	FRM	Indiana	Vanderburgh	37.974436	-87.532289	79031	13.62	12.3	0.5	0.397	0.4416	1.5676	4.6571	3.9276	0.7904
181670018	FRM	Indiana	Vigo	39.486111	-87.401389	79045	13.16	11.65	0.5	0.4696	0.4764	1.7586	3.3237	4.0816	1.1175
181670023	FRM	Indiana	Vigo	39.456238	-87.370553	79045	12.61	11.09	0.5	0.4709	0.4783	1.7698	2.727	4.117	1.1088
190130008	FRM	Iowa	Black Hawk	42.493056	-92.343889	42070	10.92	9.89	0.5	0.4667	0.3152	1.3234	3.2784	2.5024	1.5786
190450021	FRM	Iowa	Clinton	41.874999	-90.177574	57066	11.67	10.64	0.5	0.4769	0.3506	1.4031	3.6112	2.7874	1.4511
191032001	FRM	Iowa	Johnson	41.657232	-91.503478	48063	11.28	10.3	0.5	0.4305	0.2877	1.3426	3.6178	2.5368	1.5862
191130037	FRM	Iowa	Linn	42.008333	-91.678611	47066	10.38	9.38	0.5	0.4325	0.285	1.3891	2.4803	2.6199	1.6746
191370002	FRM	Iowa	Montgomery	40.969112	-95.044951	24056	9.54	8.72	0.5	0.6408	0.3497	1.0794	2.8489	2.2028	1.1302
191390015	FRM	Iowa	Muscatine	41.400948	-91.067814	52061	12.86	11.78	0.5	0.5015	0.3529	1.5113	4.2522	2.9686	1.6046
191471002	FRM	Iowa	Palo Alto	43.123704	-94.693518	26076	9.02	8.2	0.5	0.5319	0.3067	1.0025	2.8812	1.8966	1.1939
191530030	FRM	Iowa	Polk	41.603183	-93.6433	34062	10.03	9.11	0.5	0.5375	0.3328	1.2088	2.8484	2.324	1.3753
191532510	FRM	Iowa	Polk	41.603517	-93.7479	33062	9.74	8.81	0.5	0.5431	0.3373	1.205	2.5508	2.3421	1.3496
191550009	FRM	Iowa	Pottawattamie	41.264171	-95.896124	18058	10.79	10.64	0.5	0.8008	0.4682	1.1413	3.5085	2.311	1.225
191630015	FRM	Iowa	Scott	41.530011	-90.587611	55062	11.62	10.54	0.5	0.5027	0.3646	1.5238	2.958	3.0406	1.5357
191630018	FRM	Iowa	Scott	41.550005	-90.600115	55062	11.34	10.27	0.5	0.4989	0.3645	1.5134	2.7308	2.9991	1.5475
191630019	FRM	Iowa	Scott	41.517772	-90.618755	55062	13.85	12.77	0.5	0.4854	0.3575	1.4954	5.3404	2.9304	1.5688
191770006	FRM	Iowa	Van Buren	40.695078	-92.006318	45054	10.03	9.21	0.5	0.4427	0.2658	1.0622	3.776	2.013	1.2356
191930017	FRM	Iowa	Woodbury	42.517968	-96.387903	15070	10.27	9.6	0.5	0.6448	0.2906	0.9475	4.3052	1.8624	1.0396
191970004	FRM	Iowa	Wright	42.695391	-93.655976	33072	9.79	8.88	0.5	0.4922	0.3179	1.1266	3.0553	2.1295	1.3532
200910007	FRM	Kansas	Johnson	38.974444	-94.686944	27037	9.69	8.84	0.5	0.5847	0.5002	1.0095	3.1253	2.3367	0.8354
200910010	FRM	Kansas	Johnson	38.83859	-94.74643	27036	9.01	8.2	0.5	0.5488	0.4375	0.9588	2.7981	2.2358	0.7643
201070002	FRM	Kansas	Linn	38.135833	-94.731944	27030	10.12	9.26	0.5	0.8301	0.4102	1.0813	3.0651	2.6272	0.7149
201730008	FRM	Kansas	Sedgwick	37.659722	-97.297222	8025	9.45	8.71	0.5	0.5238	0.2899	0.9951	3.253	2.3749	0.6435
201730009	FRM	Kansas	Sedgwick	37.651111	-97.362222	8025	9.32	8.58	0.5	0.5221	0.2883	0.9814	3.1912	2.3517	0.6214
201730010	FRM	Kansas	Sedgwick	37.701111	-97.313889	8025	9.5	8.76	0.5	0.5172	0.2888	0.9831	3.366	2.3386	0.6392
201910002	FRM	Kansas	Sumner	37.476944	-97.366389	8023	9.03	8.32	0.5	0.6183	0.2911	0.958	2.9267	2.3037	0.6005

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202090021	FRM	Kansas	Wyandotte	39.1175	-94.635556	27039	11.21	10.32	0.5	0.6419	0.5782	1.0682	4.2238	2.4659	0.8929
202090022	FRM	Kansas	Wyandotte	39.045833	-94.694444	27038	10	9.14	0.5	0.6118	0.5391	1.0263	3.2876	2.391	0.8355
210130002	FRM	Kentucky	Bell	36.608056	-83.736944	108022	13.83	11.82	0.5	0.5299	0.7262	1.4378	4.6231	4.4455	0.184
210190017	FRM	Kentucky	Boyd	38.459167	-82.640556	114040	13.38	11.52	0.5	0.417	0.6267	1.6132	3.5508	4.8591	0.2971
210290006	FRM	Kentucky	Bullitt	37.985556	-85.713056	92033	14.05	12.2	0.5	0.5652	0.6443	1.8376	3.4377	4.7052	0.7264
210430500	FRM	Kentucky	Carter	38.238333	-82.988333	112038	11.51	9.79	0.5	0.4113	0.5961	1.3708	2.9116	4.2002	0.2312
210470006	FRM	Kentucky	Christian	36.911667	-87.323611	82022	12.83	11.25	0.5	0.5374	0.5141	1.645	3.0875	4.5379	0.5147
210590005	FRM	Kentucky	Daviess	37.780833	-87.075556	83030	13.08	11.37	0.5	0.3202	0.4026	1.9084	2.5356	5.0188	0.7251
210670012	FRM	Kentucky	Fayette	38.065	-84.5	101035	13.39	11.4	0.5	0.394	0.5098	1.8604	3.0685	4.6007	0.8492
210670014	FRM	Kentucky	Fayette	38.038889	-84.5075	101035	13.35	11.45	0.5	0.3822	0.4926	1.7791	3.4587	4.4063	0.8008
210730006	FRM	Kentucky	Franklin	38.219361	-84.8385	98036	12.48	10.6	0.5	0.4053	0.5219	1.7679	2.5173	4.4561	0.7598
210930006	FRM	Kentucky	Hardin	37.706389	-85.851667	92030	13.28	11.33	0.5	0.5314	0.5836	1.8198	2.8051	4.7426	0.6563
211010014	FRM	Kentucky	Henderson	37.871389	-87.463333	80031	13.17	11.68	0.5	0.421	0.4505	1.7008	3.5195	4.2941	0.8148
211110043	FRM	Kentucky	Jefferson	38.23319	-85.81566	91035	14.35	12.58	0.5	0.5871	0.6504	1.7812	4.0254	4.5658	0.6306
211110044	FRM	Kentucky	Jefferson	38.19113	-85.77935	92035	14.47	12.63	0.5	0.5852	0.6563	1.8284	3.8863	4.6752	0.7194
211110048	FRM	Kentucky	Jefferson	38.24024	-85.73195	92035	14.08	12.24	0.5	0.5554	0.6573	1.8651	3.3264	4.716	0.8651
211110051	FRM	Kentucky	Jefferson	38.06091	-85.89804	91034	13.93	12.1	0.5	0.5781	0.649	1.8849	3.0985	4.8063	0.749
211170007	FRM	Kentucky	Kenton	39.0725	-84.525	99044	13.09	11.44	0.5	0.4005	0.6525	1.7543	2.9168	4.5211	0.8425
211451004	FRM	Kentucky	McCracken	37.065556	-88.637778	72022	13.1	11.54	0.5	0.436	0.5143	1.6275	3.5724	4.3549	0.6239
211510003	FRM	Kentucky	Madison	37.738056	-84.285556	103032	12.03	10.19	0.5	0.3848	0.5345	1.5922	2.7869	4.1933	0.6006
211830032	FRM	Kentucky	Ohio	37.319725	-86.956097	84026	13.04	11.46	0.5	0.4472	0.4691	1.799	2.855	4.6986	0.6858
211950002	FRM	Kentucky	Pike	37.482778	-82.535278	116032	12.67	10.72	0.5	0.4744	0.7893	1.4689	3.335	4.4507	0.1946
230010011	FRM	Maine	Androscoggin	44.089406	-70.214219	186110	8.75	8.33	0.5	0.2034	0.2875	0.4784	5.1447	1.6308	0.0572
230050015	FRM	Maine	Cumberland	43.667954	-70.255601	187106	9.89	9.41	0.5	0.2131	0.3354	0.5071	6.0151	1.7699	0.0742
230090103	FRM	Maine	Hancock	44.37705	-68.2609	197117	5.1	4.82	0.5	0.1676	0.1783	0.4449	1.8545	1.4879	0.0337
230110016	FRM	Maine	Kennebec	44.312319	-69.786717	188113	8.72	8.27	0.5	0.2095	0.2873	0.4804	5.1232	1.6162	0.0604
230172011	FRM	Maine	Oxford	44.551419	-70.546319	183114	9.39	8.93	0.5	0.2071	0.2452	0.472	5.8528	1.6296	0.0528
230190002	FRM	Maine	Penobscot	44.798796	-68.769107	193119	8.32	7.81	0.5	0.3589	0.45	0.589	3.8604	1.9207	0.0761
240031003	FRM	Maryland	Anne Arundel	39.169533	-76.627933	155055	13.25	11.75	0.5	0.4814	0.6536	1.4389	4.3002	4.0275	0.6276
240051007	FRM	Maryland	Baltimore	39.460833	-76.631111	154058	12.6	10.86	0.5	0.4815	0.7064	1.6508	2.8471	4.2128	0.7644
240053001	FRM	Maryland	Baltimore	39.310833	-76.474444	156057	13.64	11.98	0.5	0.4482	0.7021	1.6846	3.8096	4.3226	0.6582
240150003	FRM	Maryland	Cecil	39.701111	-75.86	159061	12.05	10.42	0.5	0.4528	0.5095	1.7642	2.2658	4.0085	1.1109
240251001	FRM	Maryland	Harford	39.41	-76.296667	157058	11.66	10.02	0.5	0.4196	0.5908	1.5893	2.4896	3.9995	0.6657
240313001	FRM	Maryland	Montgomery	39.114444	-77.106944	152054	11.29	9.61	0.5	0.4969	0.6466	1.3698	2.557	4.0641	0.4974
240330030	FRM	Maryland	Prince George's	39.055277	-76.878333	153054	11.59	9.94	0.5	0.4507	0.5148	1.2376	3.1996	4.179	0.3938
240338003	FRM	Maryland	Prince George's	38.81194	-76.74417	155052	11.92	10.14	0.5	0.5222	0.6961	1.4627	2.6739	4.2491	0.5643
240430009	FRM	Maryland	Washington	39.565556	-77.721944	146057	12.19	10.45	0.5	0.372	0.4866	1.4936	3.3646	4.0326	0.6365
245100006	FRM	Maryland	Baltimore (City)	39.340556	-76.582222	155057	12.8	11.2	0.5	0.4673	0.7033	1.6006	3.3135	4.1486	0.6402
245100007	FRM	Maryland	Baltimore (City)	39.344444	-76.685278	154057	12.87	11.23	0.5	0.5031	0.7233	1.5079	3.6583	4.0472	0.5837
245100008	FRM	Maryland	Baltimore (City)	39.28768	-76.547616	155056	14.04	12.45	0.5	0.4486	0.6748	1.5896	4.6862	4.1048	0.6155
250035001	FRM	Massachusetts	Berkshire	42.447381	-73.258025	170090	9.7	9.04	0.5	0.2656	0.3072	0.7863	4.5045	2.4426	0.1598
250051004	FRM	Massachusetts	Bristol	41.683279	-71.169171	186087	8.77	7.95	0.5	0.3069	0.4494	0.8944	2.7345	2.7391	0.262
250092006	FRM	Massachusetts	Essex	42.474671	-70.971358	185095	8.82	8.12	0.5	0.3433	0.5636	0.9649	2.5032	2.6806	0.3277
250095005	FRM	Massachusetts	Essex	42.77077	-71.102259	184097	8.65	7.99	0.5	0.3018	0.5037	0.8123	2.9508	2.5504	0.2737
250096001	FRM	Massachusetts	Essex	42.698245	-71.164951	183096	9.13	8.45	0.5	0.3118	0.5216	0.8467	3.2952	2.5887	0.2849
250130008	FRM	Massachusetts	Hampden	42.19438	-72.555112	176089	9.3	8.51	0.5	0.2333	0.3931	0.9132	3.3793	2.7782	0.2906
250130016	FRM	Massachusetts	Hampden	42.108581	-72.590614	176088	11.43	10.59	0.5	0.2502	0.3979	0.9108	5.5207	2.7717	0.2748
250132009	FRM	Massachusetts	Hampden	42.105439	-72.59717	176088	11.11	10.28	0.5	0.2426	0.3868	0.8957	5.2828	2.7283	0.2727
250170009	FRM	Massachusetts	Middlesex	42.62668	-71.362068	182095	8.65	7.96	0.5	0.3109	0.5217	0.8545	2.8109	2.5693	0.2972
250230004	FRM	Massachusetts	Plymouth	42.082028	-71.0148	186091	9.33	8.49	0.5	0.3337	0.5222	0.9567	3.0124	2.7397	0.2949
250250002	FRM	Massachusetts	Suffolk	42.348873	-71.097163	185093	11.12	10.34	0.5	0.3439	0.5819	0.9802	4.7894	2.6356	0.3415
250250027	FRM	Massachusetts	Suffolk	42.371933	-71.062031	185093	11.14	10.32	0.5	0.3635	0.6063	1.0265	4.5134	2.7697	0.3553
250250042	FRM	Massachusetts	Suffolk	42.3294	-71.0825	185093	9.99	9.23	0.5	0.3487	0.586	0.9951	3.5759	2.6701	0.3477
250250043	FRM	Massachusetts	Suffolk	42.3631	-71.0542	185093	11.42	10.64	0.5	0.3315	0.5551	0.9467	5.2922	2.5502	0.3258
250270016	FRM	Massachusetts	Worcester	42.258571	-71.799067	180091	10.2	9.34	0.5	0.3169	0.4669	0.9264	4.0686	2.7947	0.2603
250270023	FRM	Massachusetts	Worcester	42.263877	-71.794186	180091	10.67	9.82	0.5	0.309	0.4487	0.8971	4.7261	2.7054	0.2502
260050003	FRM	Michigan	Allegan	42.767786	-86.148577	84076	10.94	9.92	0.5	0.2386	0.3157	1.4576	2.8045	3.2342	1.2702

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260170014	FRM	Michigan	Bay	43.571391	-83.890721	98086	9.73	8.88	0.5	0.5797	0.4232	1.1807	2.3577	2.7243	1.0452
260210014	FRM	Michigan	Berrien	42.19779	-86.309694	83071	10.75	9.8	0.5	0.4473	0.5301	1.4341	2.3215	2.958	1.4792
260490021	FRM	Michigan	Genesee	43.047224	-83.670159	100081	10.58	9.52	0.5	0.8243	0.5201	1.3671	2.0852	3.0251	1.1814
260650012	FRM	Michigan	Ingham	42.738618	-84.534633	95078	10.93	9.82	0.5	0.6215	0.5147	1.4	2.4956	3.0197	1.2972
260770008	FRM	Michigan	Kalamazoo	42.278067	-85.54189	89072	12.02	11	0.5	0.6798	0.5199	1.4144	3.3316	3.1395	1.3845
260810020	FRM	Michigan	Kent	42.984173	-85.671339	87079	11.79	10.72	0.5	0.3997	0.547	1.43	3.5534	2.9013	1.4047
260990009	FRM	Michigan	Macomb	42.731394	-82.793463	106079	11.28	10.26	0.5	1.1402	0.5806	1.3896	2.2927	3.0975	1.1585
261130001	FRM	Michigan	Missaukee	44.310555	-84.891865	90092	7.37	6.8	0.5	0.1582	0.1743	0.7489	2.6259	2.0095	0.6224
261150005	FRM	Michigan	Monroe	41.763889	-83.471944	103070	12.38	11.16	0.5	0.3964	0.5063	1.5148	3.7464	3.381	1.1535
261210040	FRM	Michigan	Muskegon	43.233061	-86.23858	83081	10.48	9.57	0.5	0.3046	0.4005	1.3621	2.7039	2.8899	1.2968
261250001	FRM	Michigan	Oakland	42.463063	-83.183199	104076	12.1	10.97	0.5	1.2277	0.6609	1.4846	2.4976	3.2559	1.2692
261390005	FRM	Michigan	Ottawa	42.894451	-85.852734	86078	11.5	10.47	0.5	0.3549	0.4687	1.4175	3.3806	2.928	1.3934
261470005	FRM	Michigan	St. Clair	42.953336	-82.456229	108082	11.85	10.84	0.5	1.0538	0.5898	1.4427	2.6462	3.284	1.1508
261610008	FRM	Michigan	Washtenaw	42.240565	-83.599602	102074	12.19	11.05	0.5	0.2795	0.4226	1.4155	4.2849	2.9764	1.2497
261630001	FRM	Michigan	Wayne	42.22862	-83.2082	104074	12.62	11.44	0.5	0.5157	0.6758	1.522	3.7207	3.2198	1.3084
261630015	FRM	Michigan	Wayne	42.302786	-83.10653	105075	14.02	12.84	0.5	1.7263	0.7586	1.627	3.0376	3.6798	1.3269
261630016	FRM	Michigan	Wayne	42.357808	-83.096033	105075	12.94	11.84	0.5	1.5298	0.7093	1.5318	2.7121	3.4221	1.2757
261630019	FRM	Michigan	Wayne	42.43084	-83.000138	105076	12.34	11.3	0.5	1.4682	0.6494	1.4409	2.6695	3.2352	1.1988
261630025	FRM	Michigan	Wayne	42.423063	-83.426263	103076	11.87	10.64	0.5	0.8962	0.6222	1.5353	2.4742	3.308	1.3292
261630033	FRM	Michigan	Wayne	42.306674	-83.148754	105075	15.44	14.19	0.5	1.8996	0.799	1.6904	3.9116	3.8671	1.3424
261630036	FRM	Michigan	Wayne	42.187289	-83.153905	105074	12.43	11.3	0.5	0.7587	0.6848	1.54	3.1248	3.3029	1.3242
261630039	FRM	Michigan	Wayne	42.323341	-83.068473	105075	13.06	11.96	0.5	1.5096	0.7004	1.5209	2.9245	3.4099	1.2388
270370470	FRM	Minnesota	Dakota	44.73846	-93.23725	35091	9.27	8.57	0.5	0.4822	0.4651	1.067	2.6526	2.046	1.3093
270530961	FRM	Minnesota	Hennepin	44.87551	-93.25892	35092	9.01	8.35	0.5	0.4797	0.4622	1.0426	2.5305	2.0238	1.2376
270530963	FRM	Minnesota	Hennepin	44.95366	-93.25821	35093	9.55	8.86	0.5	0.4912	0.4864	1.0958	2.7791	2.0913	1.3375
270531007	FRM	Minnesota	Hennepin	45.03972	-93.29874	35094	9.87	9.16	0.5	0.5079	0.4957	1.1367	2.8848	2.1546	1.402
271230866	FRM	Minnesota	Ramsey	44.89926	-93.01708	37092	10.95	10.26	0.5	0.4573	0.4409	1.0033	4.665	1.9306	1.245
271230868	FRM	Minnesota	Ramsey	44.95072	-93.09827	36093	10.71	10.03	0.5	0.4658	0.4408	0.9922	4.4427	1.9375	1.2134
271377001	FRM	Minnesota	Saint Louis	47.523355	-92.536305	39117	5.98	5.63	0.5	0.2825	0.1543	0.4316	2.7987	1.1256	0.3833
271377550	FRM	Minnesota	Saint Louis	46.81826	-92.08936	42110	6.28	5.97	0.5	0.3322	0.2041	0.6087	2.1402	1.4231	0.657
271377551	FRM	Minnesota	Saint Louis	46.76643	-92.13354	41110	7.62	7.28	0.5	0.3374	0.2071	0.6229	3.3973	1.4406	0.6916
271390505	FRM	Minnesota	Scott	44.791437	-93.512534	33091	9.12	8.38	0.5	0.4894	0.4641	1.0528	2.5477	2.0498	1.2646
271453052	FRM	Minnesota	Stearns	45.549839	-94.13345	29098	8.35	7.76	0.5	0.4694	0.3266	0.8504	2.7903	1.7167	1.1187
280330002	FRM	Mississippi	DeSoto	34.82166	-89.98783	63001	11.93	10.59	0.5	0.7164	0.8917	1.2714	3.412	3.6617	0.2709
290210005	FRM	Missouri	Buchanan	39.741694	-94.858584	26044	11.99	11.17	0.5	0.5738	0.3748	1.0292	5.5235	2.2809	0.9148
290370003	FRM	Missouri	Cass	38.770278	-94.58	28035	10.27	9.32	0.5	0.6274	0.4873	1.1277	3.1146	2.6086	0.9023
290470005	FRM	Missouri	Clay	39.30309	-94.376623	29040	10.55	9.6	0.5	0.4473	0.2892	1.1572	3.7215	2.6055	0.9109
290770032	FRM	Missouri	Greene	37.199541	-93.284874	38021	11.07	10.12	0.5	0.6855	0.3331	1.0593	4.2861	2.7961	0.4737
290950034	FRM	Missouri	Jackson	39.104758	-94.570796	28038	11.86	10.9	0.5	0.6698	0.5933	1.1354	4.5182	2.5943	0.9714
291860006	FRM	Missouri	Sainte Genevieve	37.967281	-90.051204	61030	12.19	11	0.5	0.4626	0.3141	1.2816	4.4483	3.4224	0.6729
291892003	FRM	Missouri	Saint Louis	38.649771	-90.350659	58036	12.27	11.09	0.5	0.532	0.4654	1.3841	3.8951	3.4177	0.9513
295100007	FRM	Missouri	St. Louis City	38.542551	-90.263711	59035	13.23	12.07	0.5	0.5365	0.4688	1.3338	5.0153	3.409	0.891
295100085	FRM	Missouri	St. Louis City	38.656485	-90.198759	59036	13.34	12.12	0.5	0.527	0.4523	1.4445	4.7516	3.5095	0.9902
295100087	FRM	Missouri	St. Louis City	38.642857	-90.185059	60036	13.55	12.3	0.5	0.5258	0.4565	1.4406	4.9722	3.5093	0.9845
310550019	FRM	Nebraska	Douglas	41.245947	-95.973128	18058	9.29	9.14	0.5	0.7685	0.46	1.1241	2.1391	2.2395	1.2537
310550052	FRM	Nebraska	Douglas	41.333056	-96.099722	17059	8.99	8.38	0.5	0.7461	0.4317	1.06	2.2004	2.1499	1.1318
310790004	FRM	Nebraska	Hall	40.942099	-98.364967	1055	7.78	7.14	0.5	0.7049	0.2981	0.8386	2.2246	1.8303	0.7443
311090022	FRM	Nebraska	Lancaster	40.81259	-96.68302	13054	8.05	7.34	0.5	0.7064	0.3675	0.9502	1.8999	1.9986	0.9257
311530007	FRM	Nebraska	Sarpy	41.133613	-95.955835	18057	9.36	9.22	0.5	0.7811	0.4556	1.1189	2.2218	2.2663	1.1989
311770002	FRM	Nebraska	Washington	41.551136	-96.146753	16061	8.63	7.95	0.5	0.7039	0.3931	1.0285	2.0761	2.0764	1.1041
330012004	FRM	New Hampshire	Belknap	43.566111	-71.496361	179103	6.77	6.21	0.5	0.2381	0.3539	0.6261	2.2184	2.0825	0.175
330050007	FRM	New Hampshire	Cheshire	42.930472	-72.272389	176096	11	10.28	0.5	0.2638	0.3598	0.7437	5.9277	2.3258	0.2108
330090010	FRM	New Hampshire	Grafton	43.629611	-72.309583	174102	7.76	7.2	0.5	0.2216	0.2739	0.5954	3.5505	1.9115	0.1916
330111015	FRM	New Hampshire	Hillsborough	42.762056	-71.444583	181096	9.57	8.83	0.5	0.3165	0.539	0.8684	3.5354	2.697	0.315
330131006	FRM	New Hampshire	Merrimack	43.13244	-71.458306	180099	9.26	8.49	0.5	0.3061	0.5293	0.8412	3.3275	2.652	0.3215
330150014	FRM	New Hampshire	Rockingham	43.075333	-70.748	185100	8.56	7.99	0.5	0.2599	0.4176	0.6566	3.5413	2.3586	0.1758
330190003	FRM	New Hampshire	Sullivan	43.364444	-72.338333	174100	8.94	8.33	0.5	0.2366	0.2979	0.6194	4.547	2.0006	0.1971

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340011006	FRM	New Jersey	Atlantic	39.363528	-74.431219	170060	11.07	10.03	0.5	0.4295	0.4014	1.2335	3.5029	3.4906	0.2228
340030003	FRM	New Jersey	Bergen	40.852256	-73.973314	169075	12.21	11.03	0.5	0.5531	1.0844	1.4699	2.9706	3.6188	0.6938
340071007	FRM	New Jersey	Camden	39.989036	-75.050008	164065	12.68	11.31	0.5	0.6261	0.6807	1.5785	3.2731	3.8416	0.8309
340171003	FRM	New Jersey	Hudson	40.725454	-74.05229	169073	12.91	11.86	0.5	0.5577	1.0932	1.5247	3.5437	3.6012	0.8086
340172002	FRM	New Jersey	Hudson	40.772793	-74.031718	169074	14.09	12.93	0.5	0.5733	1.1428	1.5902	4.3141	3.7621	0.8487
340210008	FRM	New Jersey	Mercer	40.222411	-74.763167	165068	11.9	10.67	0.5	0.4438	0.6107	1.425	3.3786	3.6152	0.6699
340218001	FRM	New Jersey	Mercer	40.31535	-74.853617	165068	10.08	8.96	0.5	0.3917	0.5495	1.2926	2.3121	3.3206	0.5719
340230006	FRM	New Jersey	Middlesex	40.472786	-74.422515	167070	11.29	10.15	0.5	0.3708	0.6028	1.3294	3.266	3.4788	0.5561
340270004	FRM	New Jersey	Morris	40.801584	-74.483817	166073	10.31	9.22	0.5	0.3575	0.6766	1.2687	2.5017	3.3573	0.5099
340273001	FRM	New Jersey	Morris	40.787628	-74.676301	165073	9.36	8.34	0.5	0.2355	0.3316	1.1597	2.4471	3.2859	0.3592
340292002	FRM	New Jersey	Ocean	39.994908	-74.170447	170067	10.19	9.15	0.5	0.4508	0.73	1.2396	2.4273	3.2192	0.4772
340310005	FRM	New Jersey	Passaic	40.918381	-74.168092	168075	12.26	11.03	0.5	0.5379	1.1046	1.4713	3.0044	3.6214	0.7287
340390004	FRM	New Jersey	Union	40.64144	-74.208365	168072	13.59	12.44	0.5	0.5884	1.5052	1.4629	4.0299	3.5123	0.7244
340390006	FRM	New Jersey	Union	40.673406	-74.213889	168073	12.61	11.46	0.5	0.571	1.4394	1.4532	3.1657	3.5074	0.709
340392003	FRM	New Jersey	Union	40.603943	-74.276174	168072	12.34	11.22	0.5	0.5505	1.3567	1.4366	3.0464	3.5061	0.6882
340410006	FRM	New Jersey	Warren	40.699207	-75.180525	162071	11.84	10.58	0.5	0.3904	0.6625	1.5046	2.9772	3.7763	0.7483
360050080	FRM	New York	Bronx	40.83606	-73.92009	170075	14.34	13.15	0.5	0.5719	1.1175	1.5108	4.8238	3.712	0.7373
360050110	FRM	New York	Bronx	40.81618	-73.902	170074	12.36	11.31	0.5	0.5615	1.0937	1.4833	3.0265	3.6613	0.6914
360130011	FRM	New York	Chautauqua	42.29071	-79.58961	129079	8.65	7.62	0.5	0.3461	0.4002	1.1596	1.6958	3.0349	0.4933
360290005	FRM	New York	Erie	42.876907	-78.809526	133085	11.11	10.22	0.5	0.3566	0.3585	1.179	3.9808	3.0136	0.6787
360291007	FRM	New York	Erie	42.8273	-78.84984	133085	10.78	9.88	0.5	0.3507	0.3606	1.1954	3.5936	3.0599	0.6713
360310003	FRM	New York	Essex	44.39308	-73.8589	162106	5.1	4.64	0.5	0.1063	0.1062	0.4618	1.6507	1.802	0.0975
360470122	FRM	New York	Kings	40.71961	-73.94771	170073	12.87	11.85	0.5	0.5683	1.1059	1.5577	3.3106	3.6758	0.8383
360551007	FRM	New York	Monroe	43.14618	-77.54817	141089	9.47	8.73	0.5	0.268	0.3738	1.2263	2.4198	2.8384	0.8315
360590008	FRM	New York	Nassau	40.63103	-73.73388	171073	10.89	9.99	0.5	0.476	0.9545	1.28	2.7815	3.1493	0.6081
360610079	FRM	New York	New York	40.7997	-73.93432	170074	12.77	11.7	0.5	0.5834	1.1415	1.5392	3.1006	3.7705	0.7604
360632008	FRM	New York	Niagara	43.08218	-79.00106	131087	10.33	9.47	0.5	0.3787	0.3748	1.1914	3.1182	3.0127	0.7117
360671015	FRM	New York	Onondaga	43.05235	-76.05921	151091	8.73	7.89	0.5	0.28	0.3151	1.0084	2.4659	2.8518	0.4092
360710002	FRM	New York	Orange	41.49916	-74.00885	168080	9.95	9.05	0.5	0.3709	0.5935	1.1371	2.7651	3.1152	0.4083
360810124	FRM	New York	Queens	40.73614	-73.82153	171074	11.33	10.33	0.5	0.514	1.0155	1.3697	2.6981	3.352	0.6604
360850055	FRM	New York	Richmond	40.63307	-74.13719	169072	12.43	11.38	0.5	0.5633	1.3715	1.4363	3.1477	3.4637	0.6989
360850067	FRM	New York	Richmond	40.59664	-74.12525	169072	10.87	9.97	0.5	0.4678	1.1118	1.2069	3.0248	2.9679	0.5312
360893001	FRM	New York	St. Lawrence	44.67811	-74.95151	154107	5.95	5.49	0.5	0.1712	0.1848	0.5727	2.0153	1.7935	0.2666
361010003	FRM	New York	Steuben	42.09142	-77.20978	145080	8.1	7.13	0.5	0.287	0.3063	0.9594	1.9157	3.0356	0.2481
361030002	FRM	New York	Suffolk	40.74529	-73.41919	173075	10.45	9.56	0.5	0.4372	0.8312	1.2232	2.7348	3.049	0.5753
361191002	FRM	New York	Westchester	40.93149	-73.76575	171076	11.22	10.16	0.5	0.5206	0.9974	1.3892	2.4051	3.4976	0.6255
370010002	FRM	North Carolina	Alamance	36.089004	-79.407821	141023	12.88	10.95	0.5	0.367	0.5366	1.4525	4.0445	4.3856	0.2081
370210034	FRM	North Carolina	Buncombe	35.6075	-82.583333	118015	11.21	9.51	0.5	0.3305	0.4201	1.1499	3.9272	3.681	0.0563
370330001	FRM	North Carolina	Caswell	36.307033	-79.467417	140025	12.32	10.38	0.5	0.36	0.5411	1.4688	3.413	4.4345	0.2037
370350004	FRM	North Carolina	Catawba	35.728889	-81.365556	127017	14.18	12.06	0.5	0.3484	0.7404	1.5656	4.8049	4.4374	0.226
370370004	FRM	North Carolina	Chatham	35.757222	-79.159722	143020	11.79	9.99	0.5	0.3627	0.4919	1.421	3.2331	4.2366	0.1887
370510009	FRM	North Carolina	Cumberland	35.041416	-78.953112	146014	12.99	11.35	0.5	0.3153	0.4896	1.4104	4.6683	3.9819	0.3121
370570002	FRM	North Carolina	Davidson	35.814444	-80.2625	135019	14.45	12.33	0.5	0.4244	0.628	1.6542	4.5381	4.8408	0.2246
370610002	FRM	North Carolina	Duplin	34.954823	-77.960781	154015	10.5	9.1	0.5	0.3072	0.3449	1.257	3.0589	3.5996	0.1705
370650004	FRM	North Carolina	Edgecombe	35.93355	-77.75007	153024	11.84	10.15	0.5	0.3594	0.4315	1.3742	3.6454	4.0023	0.1695
370670022	FRM	North Carolina	Forsyth	36.110556	-80.226667	135022	13.28	11.1	0.5	0.3012	0.5269	1.6187	3.7632	4.7935	0.2075
370670030	FRM	North Carolina	Forsyth	36.026	-80.342	134021	13.15	11.03	0.5	0.3338	0.5497	1.6138	3.6453	4.7256	0.2272
370710016	FRM	North Carolina	Gaston	35.253056	-81.153333	129013	13.34	11.27	0.5	0.4131	0.6195	1.5078	4.1765	4.4365	0.2065
370990006	FRM	North Carolina	Jackson	35.466667	-83.278056	113012	11.54	9.73	0.5	0.4866	0.3875	1.1529	4.1052	3.7341	0.0567
371070004	FRM	North Carolina	Lenoir	35.231459	-77.568792	156018	10.44	9.03	0.5	0.305	0.294	1.2454	3.1223	3.5551	0.129
371110004	FRM	North Carolina	McDowell	35.687404	-81.993789	122016	12.98	11.13	0.5	0.3741	0.4461	1.2619	5.1887	3.8564	0.074
371170001	FRM	North Carolina	Martin	35.81069	-76.89782	160024	10.57	9.05	0.5	0.3407	0.3794	1.3381	2.6387	3.8516	0.1782
371190041	FRM	North Carolina	Mecklenburg	35.2401	-80.785683	132013	13.65	11.57	0.5	0.4287	0.5722	1.4894	4.5716	4.4264	0.2016
371190042	FRM	North Carolina	Mecklenburg	35.151283	-80.866983	132013	13.85	11.77	0.5	0.4289	0.5879	1.5076	4.6928	4.4593	0.2114
371190043	FRM	North Carolina	Mecklenburg	35.3041	-80.88865	131014	13.27	11.18	0.5	0.4466	0.6032	1.5545	3.856	4.5808	0.217
371210001	FRM	North Carolina	Mitchell	35.915278	-82.073333	122018	11.88	10.05	0.5	0.4173	0.4026	1.2743	4.0415	3.8967	0.0463
371230001	FRM	North Carolina	Montgomery	35.26	-79.84	139015	11.64	9.78	0.5	0.3427	0.4576	1.3974	3.1727	4.2288	0.1835

MATS 2.3.1 - Ouput File - Annual PM-2.5
2014 Business As Usual Scenario

Year																
_id	_type	_STATE_NAME	_COUNTY_NAME	monitor_lat	monitor_long	monitor_gridcell	b_pm25_ann_DV	f_pm25_ann_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
371470005	FRM	North Carolina	Pitt	35.594167	-77.386111	157022	11.3	9.74	0.5	0.3338	0.3435	1.3414	3.4106	3.8445	0.149
371550005	FRM	North Carolina	Robeson	34.6425	-78.990278	147011	12.26	10.61	0.5	0.311	0.443	1.3663	4.0919	3.9887	0.2667
371590021	FRM	North Carolina	Rowan	35.551868	-80.395039	135017	13.56	11.61	0.5	0.3493	0.4907	1.5381	4.4213	4.5616	0.1942
371730002	FRM	North Carolina	Swain	35.435509	-83.443697	112012	12.1	10.22	0.5	0.5079	0.4197	1.2141	4.3102	3.9226	0.0688
371830014	FRM	North Carolina	Wake	35.856111	-78.574167	147022	12.78	10.97	0.5	0.3922	0.5094	1.4004	4.319	4.1677	0.1594
371890003	FRM	North Carolina	Watauga	36.221944	-81.663056	124021	10.67	8.86	0.5	0.3613	0.4916	1.3327	2.5949	3.9136	0.119
371910005	FRM	North Carolina	Wayne	35.369214	-77.993893	153019	12.31	10.74	0.5	0.3256	0.3738	1.307	4.5786	3.7406	0.1664
380171004	FRM	North Dakota	Cass	46.933754	-96.85535	11111	7.99	7.48	0.5	0.839	0.27	0.6846	2.9471	1.3596	0.9063
390090003	FRM	Ohio	Athens	39.4425	-81.908611	117050	11.77	9.97	0.5	0.4773	0.499	1.5318	2.3342	4.6356	0.4081
390170003	FRM	Ohio	Butler	39.493611	-84.353889	100048	14.4	12.7	0.5	0.6315	0.5898	1.8555	3.6153	4.5596	1.0604
390170016	FRM	Ohio	Butler	39.338333	-84.566389	99046	14.22	12.54	0.5	0.4635	0.605	1.7671	4.0929	4.3454	0.9427
390230005	FRM	Ohio	Clark	39.928889	-83.809722	103053	13.46	11.88	0.5	0.3908	0.5261	1.7442	3.7435	4.1009	1.039
390250022	FRM	Ohio	Clermont	39.082319	-84.144193	102045	12.82	11.27	0.5	0.4216	0.607	1.7476	2.8019	4.352	0.8774
390350027	FRM	Ohio	Cuyahoga	41.4775	-81.703056	116069	13.49	12.11	0.5	1.0802	0.9091	1.7965	2.4389	3.9748	1.2733
390350034	FRM	Ohio	Cuyahoga	41.555	-81.575	116070	11.97	10.73	0.5	0.9339	0.7745	1.5777	2.2202	3.574	1.0374
390350038	FRM	Ohio	Cuyahoga	41.476944	-81.681944	116069	15.08	13.64	0.5	1.0785	0.9022	1.787	4.0839	3.9845	1.2134
390350045	FRM	Ohio	Cuyahoga	41.471667	-81.657222	116069	14.33	12.89	0.5	1.086	0.906	1.7967	3.2653	4.0121	1.2182
390350060	FRM	Ohio	Cuyahoga	41.493955	-81.678542	116069	14.85	13.41	0.5	1.0861	0.9101	1.7812	3.8687	4.0074	1.1705
390350065	FRM	Ohio	Cuyahoga	41.446389	-81.661944	116069	14.51	13.02	0.5	1.126	0.9375	1.8534	3.0831	4.1864	1.2217
390351002	FRM	Ohio	Cuyahoga	41.395556	-81.818056	115068	12.34	11.06	0.5	0.9164	0.6796	1.5821	2.5795	3.6478	1.0806
390490024	FRM	Ohio	Franklin	39.998333	-82.993056	109054	13.66	11.91	0.5	0.533	0.5427	1.6584	3.9408	4.2305	0.8051
390490025	FRM	Ohio	Franklin	39.928056	-82.981111	109053	13.56	11.82	0.5	0.5388	0.5513	1.655	3.8091	4.2538	0.8021
390570005	FRM	Ohio	Greene	39.808056	-83.886944	103051	12.27	10.68	0.5	0.3983	0.527	1.7303	2.6054	4.0991	0.9944
390610006	FRM	Ohio	Hamilton	39.278499	-84.365974	100046	13.46	11.78	0.5	0.4431	0.6024	1.7473	3.4606	4.3158	0.878
390610014	FRM	Ohio	Hamilton	39.194167	-84.478889	100045	15.71	14.04	0.5	0.4136	0.633	1.85	5.3323	4.444	0.9678
390610040	FRM	Ohio	Hamilton	39.128611	-84.504167	100045	13.75	12.11	0.5	0.4015	0.625	1.8164	3.5544	4.3802	0.92
390610042	FRM	Ohio	Hamilton	39.105	-84.551111	99044	15.08	13.4	0.5	0.3977	0.64	1.7779	4.903	4.4319	0.8947
390610043	FRM	Ohio	Hamilton	39.290278	-84.414444	100046	14.21	12.54	0.5	0.4626	0.5937	1.7874	4.0485	4.3343	0.9613
390617001	FRM	Ohio	Hamilton	39.16	-84.457778	100045	14.39	12.75	0.5	0.3974	0.6253	1.79	4.2687	4.3784	0.891
390618001	FRM	Ohio	Hamilton	39.180278	-84.491944	100045	15.45	13.82	0.5	0.3922	0.6099	1.762	5.4531	4.3109	0.8986
390811001	FRM	Ohio	Jefferson	40.321944	-80.606389	125060	14.77	13.05	0.5	0.8223	0.8763	1.7817	3.7931	4.8176	0.4823
390853002	FRM	Ohio	Lake	41.7225	-81.241944	118072	12.28	11.01	0.5	0.8626	0.7082	1.6197	2.3759	3.8675	0.9407
390933002	FRM	Ohio	Lorain	41.463056	-82.114444	113068	11.89	10.86	0.5	0.8773	0.4277	1.2632	3.8307	3.2272	0.7311
390950024	FRM	Ohio	Lucas	41.644167	-83.546667	103069	13.11	11.8	0.5	0.4495	0.5861	1.6462	3.7805	3.5484	1.3519
390950026	FRM	Ohio	Lucas	41.620556	-83.641389	102068	13.06	11.73	0.5	0.4631	0.6091	1.6955	3.5066	3.5846	1.44
390990005	FRM	Ohio	Mahoning	41.111111	-80.645278	123067	13.45	12.06	0.5	0.8386	0.7288	1.5814	3.6985	3.9271	0.8126
390990014	FRM	Ohio	Mahoning	41.095868	-80.658426	123067	13.57	12.18	0.5	0.8273	0.7058	1.5518	3.99	3.8712	0.7681
391030003	FRM	Ohio	Medina	41.102778	-81.911667	115065	12.11	10.71	0.5	0.6574	0.518	1.6226	2.5646	3.8822	1.0128
391130032	FRM	Ohio	Montgomery	39.760278	-84.187778	101051	14.15	12.62	0.5	0.3526	0.511	1.7523	4.4955	4.0947	1.0342
391330002	FRM	Ohio	Portage	41.164167	-81.235	119067	12.59	11.11	0.5	0.6184	0.6238	1.6941	2.6517	4.0317	1.0444
391351001	FRM	Ohio	Preble	39.835556	-84.720833	97051	12.67	11.16	0.5	0.4573	0.5136	1.7336	2.8598	4.1193	1.0432
391450013	FRM	Ohio	Scioto	38.754167	-82.9175	111043	13.48	11.69	0.5	0.4767	0.6759	1.5804	3.7204	4.6746	0.3887
391530017	FRM	Ohio	Summit	41.063333	-81.468611	118066	14.04	12.59	0.5	0.4229	0.5134	1.6774	4.5482	3.9609	1.0487
391530023	FRM	Ohio	Summit	41.088056	-81.541667	117066	13.13	11.73	0.5	0.3682	0.4855	1.6523	3.8594	3.8769	1.0508
391550007	FRM	Ohio	Trumbull	41.214167	-80.7875	122068	13.3	11.91	0.5	0.7796	0.692	1.5718	3.68	3.8933	0.8255
400159008	FRM	Oklahoma	Caddo	35.111944	-98.252778	1001	8.47	7.93	0.5	0.6362	0.2899	0.7998	3.0497	2.1594	0.347
400970186	FRM	Oklahoma	Mayes	36.304624	-95.310616	23013	11.52	10.74	0.5	0.7606	0.4152	1.0437	4.6253	2.8205	0.4335
401010169	FRM	Oklahoma	Muskogee	35.755273	-95.377669	23007	11.58	10.79	0.5	0.689	0.4189	1.0627	4.6647	2.886	0.4145
401091037	FRM	Oklahoma	Oklahoma	35.614131	-97.475083	7006	10.14	9.31	0.5	0.651	0.4145	1.0749	3.2265	2.7306	0.6383
401159004	FRM	Oklahoma	Ottawa	36.922222	-94.838889	26018	11.24	10.37	0.5	0.8372	0.3695	1.0268	4.4293	2.7092	0.4732
401359015	FRM	Oklahoma	Sequoyah	35.581174	-94.830059	27006	11.91	11.08	0.5	0.6288	0.3532	0.9709	5.5511	2.6824	0.3292
401431127	FRM	Oklahoma	Tulsa	36.204902	-95.976537	18012	11.31	10.53	0.5	0.7065	0.4647	1.0992	4.1623	2.9605	0.463
420010001	FRM	Pennsylvania	Adams	39.92002	-77.30968	149061	11.85	10.13	0.5	0.2264	0.3037	1.6054	2.9004	4.1163	0.8352
420030008	FRM	Pennsylvania	Allegheny	40.465556	-79.961111	129062	14.04	12.34	0.5	0.8945	0.88	1.631	3.4899	4.5855	0.5971
420030064	FRM	Pennsylvania	Allegheny	40.323744	-79.868137	130061	18.33	16.6	0.5	0.6966	0.7463	1.5925	8.3422	4.4538	0.5089
420030067	FRM	Pennsylvania	Allegheny	40.381944	-80.185556	128061	11.79	10.16	0.5	0.6302	0.6751	1.4908	2.2852	4.4105	0.4472
420031008	FRM	Pennsylvania	Allegheny	40.618611	-79.727222	131064	14.16	12.36	0.5	0.7438	0.8174	1.6735	3.726	4.5783	0.6014

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_id	_type	_STATE_NAME	_COUNTY_NAME	monitor_lat	monitor_long	monitor_gridcell	b_pm25_ann_DV	f_pm25_ann_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
420031301	FRM	Pennsylvania	Allegheny	40.4025	-79.860278	130062	15.23	13.43	0.5	0.84	0.871	1.7182	4.4154	4.7087	0.6233
420033007	FRM	Pennsylvania	Allegheny	40.294092	-79.884824	130061	14.3	12.44	0.5	0.7299	0.7992	1.7217	3.6452	4.7674	0.5413
420070014	FRM	Pennsylvania	Beaver	40.747796	-80.316442	126064	14.93	13.53	0.5	0.6618	0.6883	1.5217	5.3633	4.2764	0.5297
420110011	FRM	Pennsylvania	Berks	40.38335	-75.9686	157067	13.56	12.24	0.5	0.3572	0.6605	1.6836	4.1141	3.692	1.1874
420170012	FRM	Pennsylvania	Bucks	40.107222	-74.882222	165066	12.61	11.29	0.5	0.5265	0.6614	1.5271	3.524	3.7834	0.7589
420210011	FRM	Pennsylvania	Cambria	40.309722	-78.915	137062	14.35	12.45	0.5	0.3891	0.5493	1.614	4.9667	4.3501	0.4876
420270100	FRM	Pennsylvania	Centre	40.811389	-77.877028	143068	11.36	9.7	0.5	0.2831	0.3699	1.5447	2.568	4.1033	0.6266
420410101	FRM	Pennsylvania	Cumberland	40.246528	-77.18675	149064	13.24	11.58	0.5	0.3422	0.481	1.5518	4.2696	3.9141	0.8602
420430401	FRM	Pennsylvania	Dauphin	40.245	-76.844722	151064	13.8	11.93	0.5	0.4098	0.7097	1.8713	3.2561	4.2863	1.2454
420450002	FRM	Pennsylvania	Delaware	39.835556	-75.3725	162063	14.09	12.64	0.5	0.6294	0.6728	1.6026	4.1455	4.333	0.8056
420490003	FRM	Pennsylvania	Erie	42.14175	-80.038611	126077	11.36	10.15	0.5	0.4088	0.4644	1.3576	3.3268	3.5084	0.6094
420692006	FRM	Pennsylvania	Lackawanna	41.442778	-75.623056	157077	10.65	9.38	0.5	0.3201	0.5369	1.3072	2.6841	3.6342	0.4902
420710007	FRM	Pennsylvania	Lancaster	40.046667	-76.283333	155064	14.48	12.72	0.5	0.3513	0.5608	2.017	3.7105	4.1529	1.6652
420850100	FRM	Pennsylvania	Mercer	41.215014	-80.484779	124068	12.2	10.84	0.5	0.7587	0.69	1.5186	2.8352	3.8498	0.7066
420910013	FRM	Pennsylvania	Montgomery	40.112222	-75.309167	162066	12.26	10.81	0.5	0.5171	0.693	1.6262	2.6718	3.9916	0.8591
420950025	FRM	Pennsylvania	Northampton	40.628056	-75.341111	161070	12.77	11.41	0.5	0.3964	0.7037	1.5478	3.685	3.8285	0.7929
421010004	FRM	Pennsylvania	Philadelphia	40.008889	-75.097778	164065	13.43	12.01	0.5	0.6071	0.6993	1.6102	3.8909	3.9261	0.8235
421250005	FRM	Pennsylvania	Washington	40.146667	-79.902222	130059	14.35	12.38	0.5	0.6276	0.7362	1.7018	3.9534	4.7381	0.502
421250200	FRM	Pennsylvania	Washington	40.170556	-80.261389	128059	13.39	11.58	0.5	0.6098	0.6932	1.6166	3.3486	4.6567	0.4434
421290008	FRM	Pennsylvania	Westmoreland	40.304694	-79.505667	133061	14.08	11.96	0.5	0.3958	0.6681	1.6734	4.2419	4.528	0.5007
421330008	FRM	Pennsylvania	York	39.965278	-76.699444	153062	14.58	12.72	0.5	0.5058	0.7229	1.9298	3.7839	4.298	1.305
440030002	FRM	Rhode Island	Kent	41.6156	-71.7199	183085	7.73	6.96	0.5	0.2853	0.4195	0.8427	2.0571	2.6	0.2415
440070022	FRM	Rhode Island	Providence	41.807949	-71.415	184088	9.56	8.72	0.5	0.3018	0.4819	0.922	3.4442	2.7424	0.3426
440070026	FRM	Rhode Island	Providence	41.874655	-71.379944	184088	11.39	10.51	0.5	0.3128	0.4839	0.9259	5.1484	2.8653	0.2955
440070028	FRM	Rhode Island	Providence	41.80933	-71.40743	184088	9.97	9.14	0.5	0.2999	0.4858	0.9171	3.8614	2.7334	0.3492
440071010	FRM	Rhode Island	Providence	41.84092	-71.36094	184088	9.23	8.41	0.5	0.3057	0.4667	0.8984	3.1367	2.8094	0.2726
450250001	FRM	South Carolina	Chesterfield	34.615367	-80.198787	138009	11.96	10.29	0.5	0.2797	0.3155	1.236	4.2245	4.128	0.1276
450410002	FRM	South Carolina	Florence	34.167636	-79.850404	141005	12.05	10.49	0.5	0.3466	0.3885	1.2472	4.1476	4.0962	0.1227
450450008	FRM	South Carolina	Greenville	34.838814	-82.402918	121008	14.21	12.26	0.5	0.3559	0.4871	1.2834	6.1932	4.0282	0.145
450450009	FRM	South Carolina	Greenville	34.899141	-82.31307	121008	13.73	11.72	0.5	0.3625	0.5136	1.3403	5.3974	4.1934	0.1556
450630008	FRM	South Carolina	Lexington	34.051017	-81.15495	131002	13.65	11.88	0.5	0.5604	0.5767	1.2966	5.3655	3.9657	0.0823
450730001	FRM	South Carolina	Oconee	34.805261	-83.2377	115006	10.46	8.62	0.5	0.4559	0.3738	1.1853	2.9349	3.7754	0.0911
450790007	FRM	South Carolina	Richland	34.093959	-80.962304	133003	13.1	11.26	0.5	0.5875	0.6074	1.3613	4.4452	4.1463	0.0884
450790019	FRM	South Carolina	Richland	33.991509	-81.024141	132002	13.25	11.48	0.5	0.5754	0.5956	1.3112	4.8669	4.0058	0.0823
450830010	FRM	South Carolina	Spartanburg	34.926839	-82.005211	124009	13.29	11.33	0.5	0.3735	0.5273	1.349	4.9075	4.1912	0.1496
460110002	FRM	South Dakota	Brookings	44.310283	-96.80071	12086	8.52	7.88	0.5	0.5473	0.2852	0.799	3.3324	1.5339	0.9433
460130003	FRM	South Dakota	Brown	45.4625	-98.486111	1097	7.93	7.37	0.5	0.5732	0.2464	0.6382	3.4634	1.315	0.7314
460290002	FRM	South Dakota	Codington	44.89965	-97.128802	10092	9.5	8.9	0.5	0.5518	0.265	0.7196	4.6481	1.4324	0.867
460990006	FRM	South Dakota	Minnehaha	43.544289	-96.726435	12079	9.57	8.88	0.5	0.5362	0.3507	0.8748	4.0271	1.6594	1.005
470090011	FRM	Tennessee	Blount	35.768431	-83.942123	108015	14.08	12.15	0.5	0.5548	0.4821	1.3097	5.6016	4.3418	0.0894
470370023	FRM	Tennessee	Davidson	36.176326	-86.738902	87016	13.19	11.61	0.5	0.6635	0.7208	1.3551	4.2442	4.1567	0.3739
470370036	FRM	Tennessee	Davidson	36.118251	-86.873547	86015	12.13	10.51	0.5	0.6517	0.6676	1.3916	3.0599	4.2577	0.3545
470450004	FRM	Tennessee	Dyer	36.052871	-89.38227	67012	11.42	10.04	0.5	0.6547	0.5798	1.3442	2.8306	3.9389	0.3529
470650031	FRM	Tennessee	Hamilton	34.994555	-85.242872	99006	13.82	11.84	0.5	0.4964	0.539	1.4049	5.0251	4.3749	0.098
470651011	FRM	Tennessee	Hamilton	35.233527	-85.181806	99008	12.89	10.81	0.5	0.5465	0.6054	1.519	3.451	4.649	0.1447
470654002	FRM	Tennessee	Hamilton	35.050928	-85.292975	99007	14.26	12.12	0.5	0.5303	0.6185	1.5394	4.7393	4.6739	0.1377
470990002	FRM	Tennessee	Lawrence	35.116223	-87.47001	82005	11.34	9.87	0.5	0.323	0.3052	1.2471	3.6725	3.9495	0.1721
471050108	FRM	Tennessee	Loudon	35.744799	-84.317313	105014	14.9	12.94	0.5	0.5461	0.522	1.3445	6.2674	4.3315	0.1139
471071002	FRM	Tennessee	McMinn	35.451111	-84.599167	103011	14.06	12.01	0.5	0.5649	0.5221	1.4206	5.1082	4.4493	0.1234
471130006	FRM	Tennessee	Madison	35.651541	-88.809652	72009	11.75	10.36	0.5	0.5652	0.5383	1.3251	3.3201	3.9832	0.3328
471192007	FRM	Tennessee	Maury	35.65192	-87.0263	85011	12.3	10.74	0.5	0.5001	0.5148	1.3443	3.8481	4.0872	0.2827
471251009	FRM	Tennessee	Montgomery	36.514444	-87.327778	82018	12.63	11.08	0.5	0.5392	0.5065	1.4603	3.6589	4.2536	0.3743
471450004	FRM	Tennessee	Roane	35.938695	-84.54372	103015	13.95	11.95	0.5	0.5551	0.5674	1.3703	5.1567	4.3513	0.1472
471570014	FRM	Tennessee	Shelby	35.085833	-89.949444	64003	12.55	11.15	0.5	0.7389	0.9573	1.3008	3.832	3.7088	0.2711
471570047	FRM	Tennessee	Shelby	35.16895	-90.021567	63004	12.47	11.07	0.5	0.6519	0.8874	1.3046	3.7094	3.9484	0.3028
471631007	FRM	Tennessee	Sullivan	36.540654	-82.521667	117023	13.27	11.39	0.5	0.6658	0.5026	1.5902	3.5844	4.6323	0.2056
471650007	FRM	Tennessee	Sumner	36.297778	-86.652778	87017	12.66	10.85	0.5	0.6406	0.5153	1.5828	2.91	4.7057	0.2961

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_id	_type	_STATE_NAME	_COUNTY_NAME	monitor_lat	monitor_long	monitor_gridcell	b_pm25_ann_DV	f_pm25_ann_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
500030004	FRM	Vermont	Bennington	42.88759	-73.24984	169094	7.47	6.96	0.5	0.22	0.2023	0.595	3.4034	1.8989	0.0955
500070012	FRM	Vermont	Chittenden	44.480278	-73.214444	166108	8.27	7.73	0.5	0.2507	0.3197	0.7864	3.2751	1.9382	0.5326
500210002	FRM	Vermont	Rutland	43.608056	-72.982778	169101	10.61	10.04	0.5	0.2197	0.2306	0.6171	6.3757	1.958	0.1675
510130020	FRM	Virginia	Arlington	38.8575	-77.059167	152052	12.87	10.97	0.5	0.6657	0.933	1.5254	3.1843	4.2159	0.5033
510360002	FRM	Virginia	Charles	37.343294	-77.260034	154038	11.47	9.72	0.5	0.3232	0.4677	1.3703	3.2022	4.0758	0.2532
510410003	FRM	Virginia	Chesterfield	37.436111	-77.450833	152038	12.43	10.51	0.5	0.3526	0.5224	1.4975	3.5047	4.3783	0.3017
510590030	FRM	Virginia	Fairfax	38.772778	-77.105556	152051	12.11	10.23	0.5	0.6729	0.9558	1.4958	2.5411	4.1258	0.5008
510595001	FRM	Virginia	Fairfax	38.931944	-77.198889	151052	12.67	10.76	0.5	0.5663	0.7699	1.5161	3.1583	4.3128	0.5393
510870014	FRM	Virginia	Henrico	37.558333	-77.400278	153039	12.1	10.25	0.5	0.3373	0.4987	1.4496	3.4462	4.2379	0.2907
510870015	FRM	Virginia	Henrico	37.670278	-77.5675	151040	11.81	9.95	0.5	0.3419	0.5062	1.4364	3.1985	4.2161	0.2828
511071005	FRM	Virginia	Loudoun	39.024444	-77.49	149052	12.17	10.37	0.5	0.4969	0.6495	1.4415	3.2067	4.1006	0.5238
511390004	FRM	Virginia	Page	38.663333	-78.504722	143048	11.68	9.72	0.5	0.2132	0.2776	1.6907	2.795	4.0224	0.7843
515200006	FRM	Virginia	Bristol City	36.607778	-82.164444	120024	12.66	10.76	0.5	0.3137	0.6664	1.5624	3.4298	4.3745	0.2686
516500004	FRM	Virginia	Hampton City	37.003333	-76.399167	161036	11.42	9.92	0.5	0.3932	0.5298	1.4272	2.8133	4.1188	0.3033
516800015	FRM	Virginia	Lynchburg City	37.3605	-79.1883	140035	11.86	10.02	0.5	0.4173	0.5514	1.3609	3.415	4.1069	0.1853
517100024	FRM	Virginia	Norfolk City	36.857778	-76.301667	162035	12.49	10.93	0.5	0.3683	0.4652	1.4688	3.7423	4.2626	0.2787
517700014	FRM	Virginia	Roanoke City	37.256111	-79.985	135033	13.44	11.52	0.5	0.4357	0.5921	1.4819	4.2392	4.5325	0.2588
518100008	FRM	Virginia	Virginia Beach City	36.841111	-76.181389	163035	11.85	10.37	0.5	0.3566	0.4542	1.4276	3.3367	4.1218	0.2838
540030003	FRM	West Virginia	Berkeley	39.448006	-77.964125	145056	14.91	13.02	0.5	0.4002	0.5091	1.5937	5.5631	4.2828	0.652
540090005	FRM	West Virginia	Brooke	40.341023	-80.596635	125060	15.43	13.63	0.5	0.8482	0.9012	1.8304	4.1514	4.9675	0.4695
540090011	FRM	West Virginia	Brooke	40.394583	-80.612017	125060	14.92	13.14	0.5	0.8431	0.8906	1.8104	3.763	4.9094	0.4658
540110006	FRM	West Virginia	Cabell	38.424133	-82.4259	115040	15.24	13.36	0.5	0.4772	0.6895	1.5987	5.3103	4.8636	0.31
540291004	FRM	West Virginia	Hancock	40.421539	-80.580717	125061	14.25	12.54	0.5	0.7524	0.8013	1.6964	3.7211	4.7117	0.4344
540330003	FRM	West Virginia	Harrison	39.278117	-80.34225	129051	13.42	11.58	0.5	0.439	0.5053	1.5676	3.9786	4.6167	0.2893
540390010	FRM	West Virginia	Kanawha	38.3456	-81.628317	121041	14.21	12.08	0.5	0.5296	0.7837	1.6128	4.0365	4.9473	0.2125
540391005	FRM	West Virginia	Kanawha	38.366183	-81.693717	121041	15.41	13.25	0.5	0.5683	0.877	1.6549	5.0115	4.8954	0.2291
540490006	FRM	West Virginia	Marion	39.481483	-80.134667	130053	14.51	12.6	0.5	0.4917	0.5297	1.6189	4.7853	4.6843	0.3343
540511002	FRM	West Virginia	Marshall	39.915961	-80.733858	125056	14.18	12.35	0.5	0.3822	0.5553	1.7454	3.9129	5.0422	0.3578
540610003	FRM	West Virginia	Monongalia	39.649367	-79.920867	131055	13.6	11.41	0.5	0.4825	0.5459	1.574	4.06	4.5948	0.3281
540690010	FRM	West Virginia	Ohio	40.114876	-80.700972	125058	13.71	11.86	0.5	0.5634	0.665	1.7422	3.1785	4.9681	0.4031
540810002	FRM	West Virginia	Raleigh	37.807767	-81.197433	125036	11.94	10.15	0.5	0.4251	0.6041	1.3993	3.0422	4.4566	0.1663
541071002	FRM	West Virginia	Wood	39.323533	-81.552367	120050	14.59	12.77	0.5	0.4526	0.4783	1.5373	5.1278	4.7028	0.364
550030010	FRM	Wisconsin	Ashland	46.61455	-90.69868	51109	6.26	5.93	0.5	0.3026	0.2012	0.6504	1.9636	1.5116	0.6686
550090005	FRM	Wisconsin	Brown	44.507004	-87.992978	70091	11.87	11.24	0.5	0.2214	0.2516	1.0558	5.6651	2.2178	1.2362
550250047	FRM	Wisconsin	Dane	43.073333	-89.435833	61077	12.61	11.62	0.5	0.5618	0.417	1.4503	4.1586	2.7203	1.773
550270007	FRM	Wisconsin	Dodge	43.435	-88.527778	67081	11.11	10.25	0.5	0.2392	0.276	1.4079	3.4527	2.548	1.7333
550410007	FRM	Wisconsin	Forest	45.56498	-88.80859	64100	7.14	6.72	0.5	0.2404	0.2066	0.8	2.2059	1.7667	0.8644
550430009	FRM	Wisconsin	Grant	42.69215	-90.68637	53073	12.33	11.29	0.5	0.5197	0.3803	1.4731	3.8519	2.8233	1.7147
550590019	FRM	Wisconsin	Kenosha	42.504722	-87.8093	73073	12.7	11.62	0.5	0.339	0.4133	1.6461	3.2811	3.4502	1.8966
550630012	FRM	Wisconsin	La Crosse	43.778	-91.225	49083	12.07	11.26	0.5	0.4014	0.3039	1.0248	5.8955	2.0084	1.1981
550710007	FRM	Wisconsin	Manitowoc	44.138611	-87.616111	73088	10.7	10.07	0.5	0.2124	0.2657	1.0701	4.4301	2.2551	1.2584
550790010	FRM	Wisconsin	Milwaukee	43.016667	-87.933333	72077	13.39	12.44	0.5	0.5118	0.5346	1.5859	4.2809	3.0012	1.8549
550790026	FRM	Wisconsin	Milwaukee	43.061111	-87.9125	72078	13.47	12.49	0.5	0.4908	0.5534	1.6379	4.1354	3.0889	1.9156
550790043	FRM	Wisconsin	Milwaukee	43.02641	-87.91111	72077	13.94	12.98	0.5	0.4928	0.5411	1.5916	4.8303	3.012	1.8548
550790059	FRM	Wisconsin	Milwaukee	42.955	-87.934167	72077	14.52	13.52	0.5	0.6375	0.5772	1.6589	4.831	3.1733	1.952
550790099	FRM	Wisconsin	Milwaukee	43.039722	-87.920556	72078	13.95	12.98	0.5	0.4989	0.5442	1.6156	4.7249	3.0742	1.8652
550870009	FRM	Wisconsin	Outagamie	44.306944	-88.395556	67089	11.36	10.72	0.5	0.2323	0.2608	1.1047	4.9443	2.2481	1.3084
550890009	FRM	Wisconsin	Ozaukee	43.498056	-87.81	72082	11.88	10.97	0.5	0.5437	0.4676	1.5223	3.0538	2.8942	1.8328
551091002	FRM	Wisconsin	St. Croix	45.124444	-92.6625	39094	10.33	9.62	0.5	0.482	0.4572	1.0892	3.5763	2.08	1.3864
551110007	FRM	Wisconsin	Sauk	43.435556	-89.680278	60080	10.5	9.62	0.5	0.4899	0.3813	1.3876	2.4294	2.6194	1.7127
551198001	FRM	Wisconsin	Taylor	45.203889	-90.6	52096	8.98	8.43	0.5	0.3357	0.2301	0.9284	3.2489	2.0307	1.0555
551250001	FRM	Wisconsin	Vilas	46.048056	-89.653611	58104	6.89	6.51	0.5	0.2854	0.1948	0.7096	2.3173	1.6802	0.6879
551330027	FRM	Wisconsin	Waukesha	43.020278	-88.215	70077	13.87	13.04	0.5	1.1144	0.6026	1.4117	4.7314	2.7107	1.7708

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Year																				
id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
10331002	1.1656	0.0022	0.5	0.4419	0.3203	0.9978	4.2313	3.1481	0.1522	0.9292	0.0023	1.0636	0.8585	0.7947	0.9878	0.7811	0.8909	0.7972	1.036
10890014	1.5265	0.0083	0.5	0.4484	0.3675	1.2234	3.7444	3.3738	0.2374	1.1764	0.0084	1.0526	0.8403	0.7764	0.9846	0.7693	0.8897	0.7706	1.0204
11030011	1.2795	0.0089	0.5	0.3572	0.3103	1.0702	4.238	3.3709	0.1549	1.0016	0.0091	1.0485	0.8384	0.7838	0.9832	0.774	0.8964	0.7828	1.0172
50350005	1.2299	0.0167	0.5	0.785	0.8132	1.075	3.6641	3.0152	0.2549	1.009	0.017	1.0555	0.8458	0.8277	0.9833	0.8185	0.8866	0.8203	1.0195
50450002	0.9276	0.0141	0.5	0.7777	0.4625	0.8522	4.7123	2.4409	0.2361	0.7854	0.0143	1.0406	0.8545	0.8445	0.9862	0.8393	0.8786	0.8467	1.0179
50670001	1.1813	0.0143	0.5	0.7621	0.5513	1.0594	3.1321	2.9305	0.321	0.9778	0.0144	1.0582	0.8485	0.8328	0.9896	0.8252	0.8771	0.8278	1.0117
51150003	0.934	0.0061	0.5	0.7135	0.3497	0.8329	5.45	2.4184	0.1899	0.7902	0.0062	1.0507	0.8664	0.8461	0.9847	0.8436	0.8731	0.846	1.017
51190007	0.954	0.0143	0.5	0.9224	0.557	0.8691	4.7592	2.5419	0.2239	0.7957	0.0146	1.0445	0.8544	0.8367	0.9859	0.8297	0.8773	0.8341	1.0203
51310008	0.9032	0	0.5	0.6579	0.2855	0.8285	5.1174	2.3181	0.235	0.7751	0	1.0448	0.8642	0.8634	0.9888	0.8563	0.8832	0.8582	1
51450001	0.8613	0.0143	0.5	0.5242	0.3017	0.777	5.0967	2.1489	0.2449	0.7106	0.0144	1.0551	0.8585	0.8331	0.9876	0.8266	0.8778	0.8251	1.0099
90010010	1.1253	0.0414	0.5	0.451	0.6974	1.1306	4.1158	2.9304	0.5374	0.9637	0.0423	1.0583	0.854	0.8744	0.9865	0.8554	0.9863	0.8564	1.0198
90011123	1.0865	0.0294	0.5	0.4202	0.595	1.0535	4.2524	2.7867	0.4529	0.9181	0.0301	1.0428	0.8666	0.8633	0.987	0.8469	0.984	0.845	1.0238
90013005	1.1714	0.0494	0.5	0.5038	0.762	1.1871	3.2188	2.9734	0.6164	0.9983	0.0504	1.0571	0.85	0.8752	0.9882	0.855	0.987	0.8523	1.0215
90019003	1.0976	0.0446	0.5	0.4581	0.7009	1.0898	2.6368	2.7864	0.5237	0.9327	0.0456	1.0568	0.849	0.8738	0.9887	0.8538	0.9865	0.8497	1.021
90031003	0.8248	0.0191	0.5	0.3115	0.3965	0.8014	3.9336	2.3113	0.2856	0.6993	0.0196	1.034	0.8644	0.8617	0.9799	0.8426	0.9745	0.8478	1.0235
90050005	0.806	0.0052	0.5	0.3146	0.2596	0.6907	1.9988	2.0928	0.0908	0.6805	0.0054	1.0405	0.8902	0.8473	0.9869	0.8399	0.9828	0.8443	1.0309
90090026	1.154	0.0308	0.5	0.4317	0.7398	1.1482	3.2768	3.0586	0.471	0.9909	0.0313	1.056	0.8656	0.8763	0.9845	0.8616	0.9862	0.8587	1.0169
90090027	1.1285	0.0281	0.5	0.4151	0.7053	1.1052	3.5692	2.9835	0.41	0.9666	0.0285	1.0545	0.8585	0.8738	0.9831	0.8587	0.9808	0.8566	1.0161
90091123	1.1201	0.045	0.5	0.4404	0.7206	1.1518	3.8181	2.9531	0.6348	0.9604	0.046	1.0416	0.8617	0.8739	0.9805	0.8539	0.9785	0.8574	1.0206
90092008	1.1074	0.0363	0.5	0.4246	0.7065	1.1196	2.524	2.927	0.5473	0.9485	0.0371	1.0416	0.8613	0.8734	0.9806	0.8535	0.9778	0.8565	1.0199
90092123	1.0061	0.0267	0.5	0.3869	0.5591	0.9913	4.5288	2.6446	0.4269	0.8575	0.0273	1.0362	0.8682	0.8654	0.9803	0.8504	0.9787	0.8523	1.0212
90113002	0.8696	0.0606	0.5	0.3328	0.4562	0.8506	3.5914	2.3775	0.3467	0.7282	0.0622	1.0446	0.8809	0.8535	0.983	0.8356	0.9774	0.8373	1.0254
100010002	1.2946	0.0303	0.5	0.3395	0.345	1.2204	3.0624	3.0837	0.6556	1.0171	0.0309	1.0791	0.8529	0.8092	0.9896	0.7853	0.9421	0.7856	1.0202
100010003	1.3049	0.0282	0.5	0.3149	0.3174	1.2433	3.0423	3.136	0.6697	1.0403	0.0286	1.0781	0.8535	0.821	0.9892	0.7964	0.9628	0.7972	1.0142
100031003	1.4188	0.0666	0.5	0.8311	0.5734	1.4398	2.6263	3.3694	0.9031	1.1506	0.0686	1.0764	0.8407	0.8382	0.9837	0.8125	0.9572	0.811	1.0295
100031007	1.3438	0.0535	0.5	0.594	0.4574	1.3442	2.3297	3.0666	0.8831	1.0568	0.0552	1.0793	0.8428	0.8178	0.9907	0.7883	0.9574	0.7864	1.0305
100031012	1.4187	0.0574	0.5	0.5819	0.4692	1.4921	2.6956	3.2724	1.0925	1.1294	0.0592	1.0796	0.8363	0.8234	0.9887	0.7954	0.9539	0.7961	1.0307
100032004	1.4797	0.0801	0.5	0.9372	0.618	1.5355	3.2723	3.5168	0.9812	1.2006	0.0825	1.0766	0.8409	0.8379	0.9835	0.8125	0.9585	0.8113	1.0301
100051002	1.318	0.0296	0.5	0.4247	0.4374	1.2201	3.6749	3.2067	0.5764	1.0335	0.0303	1.0758	0.8522	0.8022	0.9902	0.7819	0.9183	0.7841	1.0235
110010041	1.3447	0.0231	0.5	0.5868	0.592	1.2153	3.3748	3.258	0.5463	1.0137	0.0238	1.0814	0.8049	0.7804	0.9866	0.7514	0.9819	0.7538	1.0269
110010042	1.3219	0	0.5	0.7613	0.7989	1.1676	3.4043	3.1366	0.4696	0.9978	0	1.0813	0.8045	0.7798	0.9867	0.7532	0.9807	0.7548	1
110010043	1.388	0.0339	0.5	0.4914	0.481	1.264	2.9063	3.3032	0.6039	1.0454	0.0348	1.0808	0.8051	0.7846	0.9866	0.7526	0.9815	0.7531	1.0266
131390003	1.2331	0.005	0.5	0.4936	0.4614	0.9476	4.7496	2.9102	0.1087	0.9048	0.0051	1.0483	0.8361	0.7355	0.9824	0.724	0.8517	0.7337	1.0255
170190004	1.1752	0	0.5	0.5552	0.3541	1.2832	3.0021	2.7486	1.0683	0.9625	0	1.0648	0.7996	0.8401	0.9922	0.8229	0.8933	0.819	1
170191001	1.1826	0	0.5	0.5604	0.3505	1.2838	3.0053	2.7549	1.0678	0.9671	0	1.0642	0.8039	0.8385	0.9932	0.8214	0.8963	0.8178	1
170310022	1.1639	0.0795	0.5	0.6733	0.6532	1.4242	4.2715	2.945	1.3169	1.0424	0.0813	1.0582	0.7866	0.9031	0.9881	0.8995	0.9088	0.8956	1.0222
170310050	1.0824	0.0694	0.5	0.6164	0.6004	1.2942	4.2306	2.6967	1.1523	0.9529	0.0708	1.0613	0.7822	0.8907	0.9826	0.8831	0.9012	0.8804	1.0203
170310052	1.0243	0.0626	0.5	0.622	0.5408	1.2392	5.2304	2.5079	1.401	0.8927	0.0638	1.0727	0.796	0.8812	0.9765	0.8713	0.8981	0.8716	1.0189
170310057	1.0663	0.0727	0.5	0.6609	0.57	1.2771	4.3821	2.5891	1.4616	0.9213	0.0739	1.0706	0.7915	0.873	0.9762	0.8614	0.8932	0.864	1.0162
170310076	1.0076	0.0512	0.5	0.4911	0.4911	1.1581	5.2619	2.4769	0.8789	0.8668	0.0523	1.0692	0.7752	0.8708	0.9752	0.8631	0.8996	0.8603	1.0209
170312001	1.0455	0.0479	0.5	0.5198	0.4979	1.2288	4.9548	2.5633	1.0367	0.9009	0.0489	1.0677	0.7716	0.8714	0.9766	0.8635	0.9013	0.8617	1.0205
170313301	1.0202	0.0486	0.5	0.5129	0.4971	1.1802	5.3541	2.4867	1.0052	0.8804	0.0496	1.069	0.7751	0.8726	0.9753	0.8632	0.8976	0.8629	1.0205
170314007	1.0683	0.0259	0.5	0.4968	0.4642	1.3201	2.9816	2.6016	1.4766	0.9296	0.0265	1.0737	0.8003	0.8822	0.9791	0.8704	0.9028	0.8702	1.0217
170314201	1.0785	0.0169	0.5	0.4692	0.4478	1.3154	2.9943	2.6095	1.4194	0.9328	0.0173	1.0743	0.8005	0.8804	0.9792	0.8686	0.9036	0.8649	1.0248
170434002	1.0478	0.019	0.5	0.4214	0.403	1.3163	4.009	2.5056	1.4605	0.905	0.0193	1.0643	0.7749	0.8783	0.9805	0.8656	0.9056	0.8637	1.0202
170650002	1.3601	0.0083	0.5	0.5591	0.3831	1.3307	2.987	3.239	0.7928	1.0961	0.0085	1.0893	0.8309	0.8262	0.9941	0.8079	0.9071	0.8059	1.0244
170831001	1.1975	0.0165	0.5	0.5541	0.3551	1.2986	2.7718	2.8965	1.0195	0.9905	0.0169	1.075	0.8163	0.8454	0.9881	0.8288	0.9018	0.8271	1.022
170890003	1.0452	0.0292	0.5	0.4807	0.4222	1.2763	3.3266	2.4841	1.4542	0.8977	0.0298	1.0596	0.7812	0.8742	0.9805	0.8592	0.9048	0.8589	1.0186
170890007	0.9976	0.0188	0.5	0.404	0.3815	1.2464	4.3125	2.3628	1.4093	0.8546	0.0192	1.0576	0.7797	0.8759	0.9817	0.8614	0.906	0.8566	1.0204
170971007	0.9853	0.0101	0.5	0.3208	0.2862	1.2168	2.5699	2.5394	1.4122	0.8532	0.0103	1.0857	0.8029	0.878	0.9869	0.8605	0.9136	0.8659	1.0243
171110001	1.0152	0.019	0.5	0.4387	0.371	1.2524	2.8452	2.4275	1.4629	0.8732	0.0194	1.0614	0.7881	0.8771	0.9819	0.8629	0.9091	0.8601	1.0207
171132003	1.1251	0.0167	0.5	0.5389	0.3361	1.2818	2.9094	2.6519	1.1825	0.9374	0.0171	1.0684	0.7976	0.8523	0.9917	0.8371	0.8926	0.8332	1.0194
171150013	1.2742	0.0122	0.5	0.6002	0.3331	1.4366	3.1894	2.9724	1.3228	1.0552	0.0124	1.0619	0.804	0.8475	0.9945	0.8311	0.8967	0.8281	1.017
171191007	1.2158	0.0152	0.5	0.5555	0.3512	1.2963	6.6941	3.0123	0.9514	1.0175	0.0155	1.0698	0.7839	0.8516	0.9804	0.8371	0.8959	0.8369	1.0156
171192009	1.3173	0.0191	0.5	0.5902	0.3765	1.4399	3.8233	3.1928	1.1132	1.0949	0.0196	1.073	0.8023	0.8499	0.988	0.8334	0.903	0.8312	1.024
171193007	1.2463	0.0184	0.5	0.5526	0.3545	1.346	4.057	3.009	1.0253	1.03	0.0189	1.0736	0.8022	0.8489	0.9887	0.8302	0.9029	0.8265	1.0233
171430037	1.0851	0.0262	0.5	0.5161	0.3129	1.2561	3.788	2.5799	1.1796	0.9169	0.0267	1.0754	0.8076	0.865	0.9935	0.8523	0.8935	0.8449	1.0193

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Year																				
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
171570001	1.1535	0.0115	0.5	0.5856	0.3327	1.1603	3.6223	2.9027	0.7437	0.9429	0.0117	1.0947	0.8329	0.8347	0.993	0.8166	0.9049	0.8174	1.0183
171613002	1.0668	0.0892	0.5	0.5138	0.285	1.2536	2.8155	2.4775	1.2888	0.9031	0.0908	1.0469	0.807	0.8653	0.9825	0.8538	0.8904	0.8466	1.0182
171630010	1.1087	0.0137	0.5	0.5511	0.348	1.174	5.8052	2.8416	0.8356	0.9277	0.0139	1.0696	0.7837	0.8492	0.9795	0.8361	0.8932	0.8368	1.0163
171634001	1.1148	0.0126	0.5	0.5511	0.3446	1.161	4.7369	2.829	0.815	0.9216	0.0128	1.079	0.7965	0.8433	0.985	0.8265	0.8975	0.8267	1.0168
171670012	1.1657	0.0169	0.5	0.5557	0.315	1.2824	3.2042	2.7051	1.1303	0.9577	0.0173	1.0871	0.8068	0.839	0.9967	0.8237	0.8904	0.8216	1.0201
171971002	1.1195	0.0312	0.5	0.5053	0.4653	1.3547	3.8589	2.7042	1.3358	0.9666	0.0318	1.0688	0.7779	0.8764	0.9818	0.8657	0.9081	0.8635	1.0206
171971011	1.0613	0.0555	0.5	0.5589	0.5439	1.2265	2.2569	2.5369	1.107	0.9005	0.0567	1.0619	0.8037	0.8649	0.9888	0.8497	0.9056	0.8485	1.0213
172010013	0.8913	0.0266	0.5	0.444	0.3138	1.1132	4.3213	2.1107	1.3424	0.7665	0.0271	1.0512	0.7969	0.8766	0.9849	0.863	0.9044	0.86	1.0195
180030004	1.0962	0.0234	0.5	0.4513	0.3385	1.2699	3.7773	2.5309	1.4262	0.9253	0.024	1.0462	0.8061	0.8639	0.9893	0.8476	0.9007	0.8441	1.0239
180190006	1.5882	0.0141	0.5	0.6106	0.5312	1.4979	4.5949	3.7153	0.7401	1.261	0.0145	1.0839	0.8124	0.8155	0.9872	0.7966	0.9249	0.794	1.0274
180350006	1.3074	0.0083	0.5	0.3775	0.2868	1.3759	3.2258	3.1354	0.9884	1.0845	0.0085	1.0548	0.8077	0.8493	0.9899	0.8341	0.9071	0.8295	1.0253
180370005	1.7714	0.0157	0.5	0.4367	0.3846	1.8007	2.2233	4.166	1.028	1.4475	0.0161	1.124	0.8472	0.8339	1.0044	0.8229	0.885	0.8171	1.026
180431004	1.5817	0.0125	0.5	0.6149	0.5272	1.4483	3.2227	3.6321	0.6321	1.2564	0.0128	1.0861	0.8245	0.8143	0.9903	0.798	0.9262	0.7944	1.0265
180670003	1.2705	0.0291	0.5	0.452	0.4204	1.3905	3.1438	3.0365	1.1582	1.0623	0.0298	1.0514	0.8098	0.8536	0.993	0.8394	0.9001	0.8362	1.0249
180830004	1.4887	0.0092	0.5	0.4747	0.3716	1.4974	2.954	3.5181	0.8782	1.2187	0.0094	1.1307	0.8337	0.8334	1.0088	0.8215	0.8905	0.8186	1.0216
180890006	1.2083	0.0825	0.5	0.7367	0.7008	1.4978	3.1296	3.0576	1.4386	1.0818	0.0843	1.0578	0.7864	0.9024	0.9889	0.9005	0.9071	0.8953	1.0212
180890027	1.1723	0.0737	0.5	0.7037	0.6641	1.4351	2.7069	2.9405	1.369	1.0417	0.0751	1.0585	0.789	0.898	0.9906	0.8935	0.9066	0.8886	1.0202
180890031	1.1414	0.179	0.5	0.9118	1.0803	1.3857	3.22	2.9652	1.1543	1.0291	0.1837	1.0591	0.8002	0.9062	0.9953	0.906	0.9086	0.9017	1.0262
180892004	1.1935	0.0456	0.5	0.6592	0.5522	1.4683	3.1004	2.9865	1.4277	1.0664	0.0463	1.0577	0.7862	0.9036	0.9892	0.8992	0.9071	0.8935	1.0155
180892010	1.2001	0.0797	0.5	0.7134	0.6854	1.4555	3.1237	3.0311	1.3221	1.0725	0.0814	1.0577	0.7864	0.9016	0.989	0.8985	0.9068	0.8937	1.0217
180910011	1.04	0.1066	0.5	0.6793	0.7645	1.209	2.7363	2.5531	1.1385	0.8993	0.1098	1.0755	0.8176	0.8807	0.9948	0.8679	0.9093	0.8647	1.03
180950009	1.332	0.0085	0.5	0.3773	0.2865	1.4113	3.3471	3.2028	1.0305	1.1086	0.0087	1.053	0.7999	0.8488	0.9886	0.8331	0.9092	0.8323	1.0263
180970078	1.5415	0.0138	0.5	0.4826	0.4999	1.6207	3.5903	3.7347	1.1069	1.2969	0.0141	1.0585	0.797	0.8559	0.9902	0.8418	0.9115	0.8413	1.0185
180970081	1.4956	0.0099	0.5	0.4702	0.4925	1.5821	4.2244	3.6309	1.0987	1.2585	0.0102	1.0584	0.7971	0.8576	0.9906	0.8431	0.9115	0.8415	1.0271
180970083	1.4915	0.0097	0.5	0.4646	0.4829	1.5661	4.0369	3.6112	1.069	1.2533	0.01	1.0584	0.797	0.8564	0.9904	0.8418	0.9116	0.8403	1.0273
181270024	1.082	0.1612	0.5	0.8653	1.035	1.2649	2.6658	2.7602	1.0139	0.9601	0.1656	1.0667	0.8049	0.8934	0.9938	0.89	0.9079	0.8873	1.0275
181410014	0.9119	0.0357	0.5	0.4029	0.3905	1.1276	4.3679	2.1739	1.3628	0.7855	0.0366	1.0491	0.8186	0.8768	0.9893	0.8678	0.9004	0.8614	1.0259
181470009	1.6631	0.0119	0.5	0.4283	0.3721	1.5966	2.3854	3.8591	0.8034	1.338	0.0122	1.1247	0.8431	0.8222	1.0026	0.8092	0.8925	0.8045	1.0255
181570008	1.2473	0.0457	0.5	0.5458	0.5307	1.3733	2.7704	2.9789	1.1427	1.0375	0.0469	1.0598	0.8147	0.8506	0.9952	0.8353	0.8961	0.8317	1.0274
181630006	1.3305	0.0183	0.5	0.4428	0.374	1.31	4.4081	3.2164	0.7208	1.0826	0.0185	1.1055	0.8388	0.8314	1.0034	0.8179	0.8955	0.8137	1.011
181630012	1.3377	0.018	0.5	0.4498	0.3813	1.3291	4.5642	3.2504	0.7398	1.0947	0.0182	1.1026	0.8337	0.8342	1.0032	0.8182	0.896	0.8184	1.0113
181630016	1.3235	0.0183	0.5	0.4388	0.3703	1.3046	4.6732	3.21	0.7078	1.0812	0.0185	1.1054	0.8387	0.8322	1.0034	0.8173	0.8955	0.817	1.0111
181670018	1.4215	0.0098	0.5	0.513	0.3952	1.454	3.3275	3.2985	1.0086	1.1465	0.01	1.0924	0.8296	0.8268	1.0011	0.8081	0.9026	0.8065	1.0262
181670023	1.438	0.0092	0.5	0.5144	0.3968	1.4617	2.7296	3.3261	1.0012	1.1566	0.0095	1.0923	0.8296	0.8259	1.0009	0.8079	0.903	0.8043	1.0255
190130008	0.9316	0.0304	0.5	0.4842	0.2551	1.1347	3.1995	2.1174	1.3833	0.7858	0.0308	1.0376	0.8091	0.8574	0.9759	0.8461	0.8763	0.8435	1.0132
190450021	1.025	0.065	0.5	0.5009	0.288	1.2096	3.5581	2.3711	1.2866	0.8649	0.0661	1.0504	0.8213	0.8621	0.9853	0.8506	0.8867	0.8438	1.0175
191032001	0.9443	0.0388	0.5	0.4495	0.233	1.1588	3.5569	2.1702	1.3934	0.8017	0.0394	1.0442	0.81	0.8631	0.9832	0.8555	0.8784	0.849	1.0161
191130037	0.9761	0.0333	0.5	0.45	0.2319	1.1986	2.4378	2.2339	1.47	0.8259	0.0338	1.0405	0.8137	0.8628	0.9828	0.8527	0.8778	0.8461	1.0153
191370002	0.7932	0	0.5	0.6768	0.2891	0.9228	2.8184	1.8539	0.9966	0.6645	0	1.0562	0.8269	0.8549	0.9893	0.8416	0.8817	0.8378	1
191390015	1.0955	0.0717	0.5	0.528	0.289	1.308	4.1963	2.5344	1.4259	0.9266	0.0731	1.0529	0.819	0.8655	0.9868	0.8537	0.8886	0.8459	1.0187
191471002	0.7033	0.013	0.5	0.5486	0.2465	0.851	2.8283	1.5904	1.0393	0.5886	0.0131	1.0313	0.8038	0.8489	0.9816	0.8386	0.8706	0.8368	1.0118
191530030	0.8808	0.0311	0.5	0.5557	0.2624	1.0436	2.7755	1.9853	1.2115	0.747	0.0315	1.0339	0.7886	0.8633	0.9744	0.8542	0.8809	0.8481	1.0136
191532510	0.8838	0.0327	0.5	0.5618	0.2663	1.0395	2.4892	1.9926	1.1883	0.7478	0.0332	1.0344	0.7895	0.8627	0.9759	0.8508	0.8805	0.8461	1.0139
191550009	0.8232	0.0155	0.5	0.9589	0.4412	1.0849	3.5175	2.2575	1.0829	0.7837	0.0157	1.1973	0.9424	0.9506	1.0026	0.9769	0.884	0.952	1.0122
191630015	1.1134	0.0927	0.5	0.5266	0.2943	1.3179	2.908	2.5937	1.3677	0.945	0.0945	1.0476	0.807	0.8649	0.9831	0.853	0.8906	0.8488	1.0186
191630018	1.0988	0.0932	0.5	0.5226	0.2942	1.3096	2.6862	2.5615	1.3774	0.9316	0.0949	1.0475	0.8072	0.8653	0.9837	0.8541	0.8901	0.8478	1.0185
191630019	1.0745	0.1001	0.5	0.5083	0.2886	1.2971	5.2547	2.5096	1.3976	0.9138	0.1019	1.0473	0.8074	0.8674	0.984	0.8564	0.8909	0.8505	1.0183
191770006	0.7389	0	0.5	0.4661	0.2189	0.9078	3.7269	1.6933	1.0864	0.6194	0	1.0529	0.8233	0.8546	0.987	0.8412	0.8793	0.8383	1
191930017	0.6794	0	0.5	0.6743	0.2359	0.8251	4.2573	1.6112	0.9171	0.5837	0	1.0458	0.8119	0.8708	0.9889	0.8651	0.8821	0.8591	1
191970004	0.7945	0.0217	0.5	0.5085	0.256	0.9627	2.9939	1.7971	1.179	0.6683	0.022	1.0332	0.8053	0.8545	0.9799	0.8439	0.8713	0.8412	1.0115
200910007	0.7869	0.019	0.5	0.6116	0.4009	0.8673	3.0681	1.9744	0.7442	0.6629	0.0193	1.046	0.8016	0.8591	0.9817	0.8449	0.8908	0.8424	1.012
200910010	0.7589	0.0176	0.5	0.575	0.3565	0.8186	2.7541	1.8726	0.6822	0.6328	0.0178	1.0479	0.8148	0.8538	0.9843	0.8375	0.8925	0.8338	1.0121
201070002	0.8869	0.0074	0.5	0.8816	0.3512	0.9164	3.0418	2.1897	0.6375	0.7359	0.0075	1.062	0.8563	0.8475	0.9924	0.8335	0.8918	0.8298	1.0181
201730008	0.8522	0.0202	0.5	0.5332	0.247	0.8624	3.2082	2.0452	0.5643	0.7328	0.0202	1.018	0.852	0.8666	0.9862	0.8612	0.8769	0.86	1.0029
201730009	0.8446	0.0196	0.5	0.5315	0.2456	0.8501	3.1462	2.025	0.545	0.7249	0.0197	1.018	0.8519	0.8663	0.9859	0.8611	0.877	0.8583	1.0029
201730010	0.8426	0.0197	0.5	0.5264	0.246	0.8521	3.3186	2.0158	0.5605	0.7219	0.0198	1.0178	0.8518	0.8668	0.9859	0.862	0.877	0.8568	1.0031
201910002	0.8199	0.0169	0.5	0.6315	0.253	0.8264	2.8969	1.974	0.5266	0.7008	0.0169	1.0214	0.8694	0.8626	0.9898	0.8569	0.877	0.8547	1.0037

MATS 2.3.1 - Ouput File - Annual PM-2.5
2014 Business As Usual Scenario

Year																			
id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
202090021	0.8208	0.0221	0.5	0.6734	0.4725	0.9185	4.1499	2.0968	0.7943	0.6972	0.0224	1.0491	0.8171	0.8599	0.9825	0.8503	0.8896	0.8494	1.0124
202090022	0.7986	0.0197	0.5	0.6407	0.4314	0.8824	3.2266	2.028	0.7431	0.6769	0.0199	1.0472	0.8003	0.8598	0.9814	0.8482	0.8895	0.8477	1.0118
210130002	1.3846	0.0133	0.5	0.5778	0.6208	1.076	4.5689	3.2629	0.1816	1.0223	0.0136	1.0905	0.8548	0.7483	0.9883	0.734	0.9869	0.7383	1.0186
210190017	1.5062	0.0129	0.5	0.4561	0.5536	1.2677	3.5321	3.742	0.2918	1.1684	0.0131	1.0937	0.8833	0.7858	0.9947	0.7701	0.9821	0.7757	1.0165
210290006	1.6235	0.0128	0.5	0.6236	0.5378	1.4787	3.4078	3.7016	0.6712	1.2707	0.0131	1.1033	0.8348	0.8047	0.9913	0.7867	0.9239	0.7827	1.0255
210430500	1.2844	0.011	0.5	0.4622	0.516	1.0525	2.8933	3.1592	0.2265	0.9707	0.0112	1.1236	0.8656	0.7678	0.9937	0.7522	0.9797	0.7558	1.0152
210470006	1.503	0.0048	0.5	0.6011	0.4286	1.3402	3.0702	3.6458	0.4624	1.2066	0.005	1.1186	0.8336	0.8147	0.9944	0.8034	0.8984	0.8028	1.0394
210590005	1.6597	0.0026	0.5	0.3721	0.3428	1.5693	2.5487	4.0501	0.6534	1.3385	0.0027	1.1622	0.8516	0.8223	1.0052	0.807	0.9011	0.8065	1.0558
210670012	1.603	0.0109	0.5	0.4372	0.42	1.4659	3.0437	3.5219	0.7912	1.2178	0.0113	1.1095	0.8239	0.7879	0.9919	0.7655	0.9317	0.7597	1.0335
210670014	1.5329	0.0084	0.5	0.424	0.4058	1.3993	3.4298	3.3705	0.746	1.166	0.0086	1.1095	0.8238	0.7865	0.9916	0.7649	0.9315	0.7607	1.0246
210730006	1.5462	0.01	0.5	0.4502	0.4348	1.3974	2.5009	3.4208	0.708	1.1802	0.0104	1.1109	0.8331	0.7904	0.9935	0.7677	0.9319	0.7633	1.0326
210930006	1.6353	0.005	0.5	0.5884	0.4884	1.4419	2.7851	3.6711	0.5996	1.2603	0.0052	1.1073	0.8368	0.7923	0.9929	0.7741	0.9136	0.7707	1.0433
211010014	1.4523	0.0134	0.5	0.4684	0.379	1.4048	3.5348	3.4802	0.7322	1.1752	0.0136	1.1126	0.8414	0.826	1.0043	0.8105	0.8987	0.8092	1.0147
211110043	1.6084	0.0133	0.5	0.6392	0.5351	1.4417	3.9803	3.6273	0.5825	1.2685	0.0136	1.0887	0.8227	0.8094	0.9888	0.7944	0.9238	0.7887	1.0268
211110044	1.6208	0.0135	0.5	0.6352	0.5325	1.4808	3.8312	3.7009	0.6631	1.2773	0.0138	1.0854	0.8114	0.8099	0.9858	0.7916	0.9217	0.7881	1.0264
211110048	1.5864	0.0131	0.5	0.6029	0.5331	1.5184	3.2817	3.7403	0.7967	1.2561	0.0134	1.0855	0.8111	0.8141	0.9866	0.7931	0.9209	0.7918	1.0264
211110051	1.6641	0.0128	0.5	0.6364	0.5383	1.5264	3.0711	3.811	0.6907	1.3142	0.0131	1.101	0.8294	0.8098	0.9912	0.7929	0.9222	0.7898	1.0265
211170007	1.5	0.0152	0.5	0.4459	0.5442	1.4431	2.891	3.6159	0.789	1.1972	0.0156	1.1132	0.8339	0.8226	0.9912	0.7998	0.9365	0.7981	1.0207
211451004	1.4597	0.0074	0.5	0.4741	0.4335	1.3358	3.5463	3.5078	0.5641	1.1758	0.0077	1.0874	0.8428	0.8207	0.9927	0.8055	0.9041	0.8055	1.0416
211510003	1.43	0.0096	0.5	0.431	0.4492	1.2388	2.7668	3.1611	0.5695	1.0731	0.0099	1.1203	0.8405	0.7781	0.9928	0.7538	0.9482	0.7504	1.033
211830032	1.592	0.0054	0.5	0.5105	0.4	1.4784	2.8557	3.8049	0.619	1.2874	0.0056	1.1416	0.8527	0.8218	1.0002	0.8098	0.9025	0.8086	1.0386
211950002	1.4425	0.0122	0.5	0.5144	0.6914	1.1159	3.3006	3.3137	0.1944	1.0779	0.0124	1.0845	0.876	0.7597	0.9897	0.7445	0.9988	0.7472	1.0145
230010011	0.4405	0.0074	0.5	0.2056	0.263	0.424	5.052	1.4345	0.0553	0.3896	0.0075	1.0108	0.9148	0.8863	0.982	0.8796	0.9669	0.8843	1.0154
230050015	0.4583	0.0215	0.5	0.2167	0.3025	0.4524	5.8876	1.5595	0.0739	0.4033	0.0218	1.0166	0.9018	0.892	0.9788	0.8812	0.9959	0.8799	1.0136
230090103	0.4215	0.0184	0.5	0.1713	0.1651	0.4002	1.8193	1.3357	0.0338	0.3792	0.0186	1.0221	0.9258	0.8996	0.981	0.8977	1.0018	0.8995	1.0076
230110016	0.4432	0.0097	0.5	0.212	0.2604	0.4245	5.0043	1.4188	0.0589	0.3903	0.0098	1.0118	0.9066	0.8837	0.9768	0.8779	0.975	0.8806	1.0133
230172011	0.4305	0.0052	0.5	0.212	0.2249	0.4165	5.7257	1.4218	0.0511	0.3812	0.0053	1.0234	0.9173	0.8823	0.9783	0.8725	0.968	0.8854	1.013
230190002	0.5543	0.0077	0.5	0.3624	0.412	0.5281	3.7312	1.7056	0.0754	0.497	0.0078	1.0096	0.9157	0.8966	0.9665	0.888	0.9901	0.8965	1.0133
240031003	1.2155	0.0189	0.5	0.5186	0.5399	1.1746	4.2498	3.1653	0.6271	0.9596	0.0194	1.0771	0.826	0.8164	0.9883	0.7859	0.9991	0.7895	1.0291
240051007	1.4231	0.0261	0.5	0.5199	0.5854	1.3259	2.8144	3.2488	0.7547	1.0933	0.027	1.0797	0.8287	0.8032	0.9885	0.7712	0.9873	0.7683	1.0342
240053001	1.4823	0.0284	0.5	0.4778	0.585	1.3807	3.7678	3.4237	0.6561	1.1659	0.0292	1.0661	0.8333	0.8196	0.989	0.792	0.9968	0.7865	1.0287
240150003	1.3884	0.0501	0.5	0.4874	0.4269	1.4377	2.2381	3.1379	1.0568	1.0853	0.0517	1.0763	0.8379	0.8149	0.9878	0.7828	0.9513	0.7817	1.0311
240251001	1.3828	0.028	0.5	0.451	0.4987	1.2717	2.4652	3.087	0.6606	1.0638	0.0289	1.0748	0.844	0.8002	0.9902	0.7719	0.9924	0.7693	1.0319
240313001	1.1422	0.0224	0.5	0.5379	0.5299	1.0749	2.5288	3.0602	0.4953	0.867	0.0231	1.0824	0.8194	0.7847	0.9889	0.753	0.9956	0.759	1.0325
240330030	1.083	0.0294	0.5	0.4899	0.4227	0.9749	3.1626	3.1488	0.3937	0.8242	0.0304	1.087	0.8212	0.7877	0.9884	0.7535	0.9998	0.761	1.0342
240338003	1.2222	0.023	0.5	0.5691	0.5781	1.147	2.6479	3.1824	0.5685	0.9257	0.0237	1.09	0.8305	0.7842	0.9903	0.749	1.0074	0.7574	1.0266
240430009	1.2885	0.0197	0.5	0.4061	0.4186	1.167	3.3402	3.0162	0.6185	0.9664	0.0203	1.0916	0.8602	0.7813	0.9927	0.748	0.9717	0.75	1.0315
245100006	1.4146	0.0235	0.5	0.498	0.5784	1.3096	3.2745	3.2808	0.634	1.1104	0.0242	1.0657	0.8224	0.8182	0.9882	0.7908	0.9904	0.785	1.0299
245100007	1.329	0.0125	0.5	0.54	0.5929	1.2136	3.6109	3.1538	0.5765	1.0336	0.0129	1.0732	0.8197	0.8048	0.987	0.7793	0.9877	0.7777	1.0312
245100008	1.4031	0.0262	0.5	0.4804	0.5547	1.2991	4.6285	3.2528	0.6106	1.1059	0.027	1.0708	0.822	0.8173	0.9877	0.7924	0.9921	0.7882	1.0299
250035001	0.7271	0.0064	0.5	0.2765	0.279	0.6728	4.4723	2.0635	0.1568	0.6171	0.0066	1.0413	0.9083	0.8556	0.9928	0.8448	0.9814	0.8486	1.031
250051004	0.7795	0.1044	0.5	0.336	0.3923	0.7554	2.6888	2.2685	0.2618	0.6498	0.107	1.0946	0.873	0.8446	0.9833	0.8282	0.9991	0.8336	1.0246
250092006	0.8664	0.0799	0.5	0.3527	0.4968	0.849	2.4471	2.3274	0.3196	0.7526	0.0814	1.0274	0.8814	0.8799	0.9776	0.8683	0.9753	0.8687	1.0185
250095005	0.6912	0.0688	0.5	0.3076	0.4489	0.7131	2.8922	2.1989	0.2679	0.5998	0.0702	1.0193	0.8912	0.8779	0.9801	0.8622	0.979	0.8678	1.0194
250096001	0.7281	0.0663	0.5	0.3173	0.4613	0.742	3.2292	2.2287	0.277	0.6298	0.0675	1.0175	0.8844	0.8764	0.98	0.8609	0.9722	0.8651	1.019
250130008	0.7985	0.0147	0.5	0.2397	0.3481	0.788	3.3164	2.3512	0.2843	0.6772	0.0151	1.0276	0.8854	0.8629	0.9814	0.8463	0.9784	0.848	1.0237
250130016	0.7952	0.0163	0.5	0.2572	0.3498	0.781	5.4091	2.3396	0.268	0.6772	0.0166	1.028	0.8792	0.8576	0.9798	0.8441	0.9753	0.8516	1.0228
250132009	0.788	0.0155	0.5	0.2494	0.3401	0.7701	5.1771	2.3033	0.266	0.6677	0.0158	1.028	0.8794	0.8598	0.98	0.8443	0.9754	0.8473	1.0225
250170009	0.7297	0.063	0.5	0.3162	0.4608	0.7459	2.7519	2.2069	0.2888	0.6304	0.0643	1.0172	0.8833	0.8729	0.979	0.8589	0.9717	0.864	1.0202
250230004	0.8685	0.1025	0.5	0.3462	0.4575	0.8192	2.941	2.3025	0.2893	0.7308	0.1046	1.0374	0.8761	0.8563	0.9763	0.8404	0.9812	0.8414	1.0198
250250002	0.8831	0.0747	0.5	0.3533	0.5077	0.8629	4.6563	2.2929	0.3305	0.7656	0.0761	1.0273	0.8725	0.8804	0.9722	0.87	0.9677	0.8669	1.0191
250250027	0.929	0.0752	0.5	0.3734	0.5291	0.9062	4.3819	2.4084	0.3439	0.8061	0.0766	1.0272	0.8727	0.8829	0.9709	0.8696	0.9679	0.8677	1.0194
250250042	0.8979	0.0726	0.5	0.3581	0.5114	0.8767	3.4784	2.3229	0.3365	0.7787	0.074	1.0271	0.8727	0.881	0.9727	0.87	0.968	0.8672	1.0193
250250043	0.8506	0.0728	0.5	0.3406	0.4844	0.8321	5.1423	2.2168	0.3155	0.7404	0.0742	1.0274	0.8727	0.8789	0.9717	0.8692	0.9683	0.8704	1.0189
250270016	0.8274	0.0415	0.5	0.3262	0.4037	0.7934	3.9682	2.3529	0.2542	0.7003	0.0426	1.0294	0.8647	0.8564	0.9753	0.8419	0.9765	0.8464	1.0265
250270023	0.8045	0.0426	0.5	0.3181	0.3879	0.7669	4.6074	2.2756	0.2443	0.677	0.0437	1.0294	0.8645	0.8549	0.9749	0.8412	0.9764	0.8416	1.025
260050003	1.1136	0.008	0.5	0.2582	0.2599	1.2662	2.7805	2.7493	1.157	0.9461	0.0083	1.0821	0.8233	0.8687	0.9914	0.8501	0.9109	0.8496	1.0338

MATS 2.3.1 - Ouput File - Annual PM-2.5
2014 Business As Usual Scenario

Year																				
id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
260170014	0.8991	0.029	0.5	0.6125	0.3468	1.0286	2.3218	2.3049	0.9819	0.7636	0.0297	1.0566	0.8194	0.8712	0.9848	0.8461	0.9395	0.8493	1.0242
260210014	1.0448	0.0401	0.5	0.4818	0.4351	1.2548	2.3034	2.5359	1.3536	0.8964	0.0413	1.0773	0.8207	0.8749	0.9922	0.8573	0.915	0.8579	1.0303
260490021	1.0459	0.0441	0.5	0.8757	0.4086	1.1706	2.041	2.5143	1.1031	0.8699	0.0451	1.0624	0.7856	0.8562	0.9788	0.8311	0.9337	0.8317	1.0246
260650012	1.0553	0.027	0.5	0.6662	0.4106	1.1965	2.4542	2.5084	1.1879	0.8738	0.0277	1.0719	0.7979	0.8546	0.9834	0.8307	0.9158	0.8281	1.0254
260770008	1.0443	0.0208	0.5	0.7257	0.421	1.2293	3.2812	2.6749	1.2634	0.8908	0.0213	1.0675	0.8097	0.8691	0.9849	0.852	0.9125	0.8531	1.0252
260810020	1.0445	0.0148	0.5	0.4267	0.4251	1.242	3.478	2.4699	1.2789	0.8872	0.0152	1.0676	0.7772	0.8686	0.9788	0.8513	0.9104	0.8494	1.0227
260990009	1.0678	0.0671	0.5	1.2319	0.4569	1.1939	2.247	2.5864	1.0858	0.8898	0.0689	1.0804	0.7869	0.8592	0.98	0.835	0.9372	0.8333	1.0265
261130001	0.5351	0.0033	0.5	0.1678	0.15	0.6498	2.5933	1.7026	0.5824	0.4562	0.0034	1.0608	0.8603	0.8678	0.9876	0.8473	0.9358	0.8525	1.029
261150005	1.178	0.0116	0.5	0.431	0.4117	1.2865	3.6949	2.7985	1.0589	0.9747	0.0119	1.0873	0.8132	0.8493	0.9862	0.8277	0.918	0.8274	1.0306
261210040	1.0133	0.0127	0.5	0.3258	0.3326	1.1902	2.6725	2.4779	1.1875	0.8713	0.0131	1.0696	0.8304	0.8738	0.9884	0.8574	0.9157	0.8599	1.0243
261250001	1.1388	0.0623	0.5	1.3149	0.501	1.2843	2.4302	2.7556	1.1637	0.9597	0.0638	1.0711	0.758	0.8651	0.973	0.8463	0.9169	0.8427	1.0241
261390005	1.0448	0.0144	0.5	0.3795	0.3674	1.2359	3.3181	2.5032	1.2625	0.8914	0.0148	1.0692	0.7839	0.8719	0.9815	0.8549	0.9061	0.8532	1.0226
261470005	1.1215	0.0623	0.5	1.139	0.5084	1.2427	2.6232	2.7391	1.0917	0.9358	0.064	1.0809	0.862	0.8614	0.9913	0.8341	0.9487	0.8344	1.0277
261610008	1.049	0.0284	0.5	0.2991	0.3377	1.2108	4.1747	2.4787	1.1475	0.8722	0.0292	1.0704	0.7992	0.8554	0.9743	0.8328	0.9182	0.8315	1.0279
261630001	1.1389	0.0247	0.5	0.5557	0.5417	1.3091	3.6415	2.706	1.2074	0.9555	0.0253	1.0774	0.8016	0.8601	0.9787	0.8404	0.9228	0.839	1.0261
261630015	1.2814	0.0824	0.5	1.8582	0.5995	1.4083	2.9734	3.1158	1.2221	1.0804	0.0844	1.0764	0.7903	0.8656	0.9789	0.8467	0.921	0.8431	1.0237
261630016	1.1895	0.0734	0.5	1.6466	0.5605	1.3277	2.6558	2.9023	1.1743	1.0065	0.0752	1.0764	0.7902	0.8668	0.9793	0.8481	0.9206	0.8461	1.0246
261630019	1.1188	0.0761	0.5	1.5758	0.5022	1.2496	2.6065	2.7479	1.1012	0.9488	0.0779	1.0733	0.7734	0.8672	0.9764	0.8494	0.9186	0.8481	1.0237
261630025	1.1606	0.0501	0.5	0.9596	0.4745	1.3155	2.4035	2.7582	1.2211	0.9655	0.0514	1.0707	0.7626	0.8568	0.9714	0.8338	0.9187	0.8319	1.0266
261630033	1.3402	0.0875	0.5	2.0447	0.6315	1.4612	3.827	3.2701	1.2361	1.1313	0.0896	1.0764	0.7903	0.8644	0.9784	0.8456	0.9208	0.8441	1.0235
261630036	1.1659	0.0357	0.5	0.8201	0.5541	1.3319	3.076	2.7801	1.2286	0.9799	0.0367	1.0808	0.8091	0.8648	0.9844	0.8417	0.9278	0.8404	1.0266
261630039	1.1936	0.0716	0.5	1.6253	0.5536	1.312	2.8646	2.8855	1.1424	1.0043	0.0733	1.0767	0.7904	0.8627	0.9795	0.8462	0.9222	0.8414	1.0241
270370470	0.7306	0.0206	0.5	0.4937	0.3813	0.9495	2.5952	1.8122	1.1751	0.6465	0.0209	1.0239	0.8197	0.8899	0.9784	0.8857	0.8975	0.8849	1.0115
270530961	0.724	0.0216	0.5	0.4902	0.3768	0.9333	2.4685	1.8084	1.112	0.6423	0.0218	1.0218	0.8152	0.8952	0.9755	0.8935	0.8985	0.8871	1.0105
270530963	0.7504	0.0206	0.5	0.5016	0.397	0.9872	2.7081	1.8801	1.2037	0.6686	0.0208	1.0213	0.8161	0.9009	0.9745	0.899	0.9	0.8909	1.0103
270531007	0.7702	0.0198	0.5	0.5191	0.4036	1.0198	2.8138	1.9325	1.2665	0.6862	0.02	1.0222	0.8141	0.8972	0.9754	0.8969	0.9033	0.8909	1.0127
271230866	0.6917	0.0246	0.5	0.4689	0.3614	0.895	4.5627	1.715	1.1262	0.613	0.0249	1.0254	0.8196	0.892	0.9781	0.8883	0.9046	0.8862	1.0126
271230868	0.6961	0.0243	0.5	0.4765	0.3598	0.894	4.3312	1.7362	1.0974	0.6195	0.0246	1.0228	0.8164	0.901	0.9749	0.8961	0.9045	0.89	1.0124
271377001	0.3064	0.0014	0.5	0.2672	0.1368	0.3904	2.7031	1.0023	0.3622	0.2748	0.0014	0.9459	0.8868	0.9045	0.9658	0.8904	0.945	0.8968	1.0181
271377550	0.4204	0.0057	0.5	0.3399	0.1843	0.5535	2.1182	1.2766	0.6157	0.3801	0.0058	1.0232	0.9028	0.9092	0.9898	0.897	0.9371	0.9042	1.0184
271377551	0.4271	0.0055	0.5	0.345	0.1866	0.5658	3.3569	1.29	0.6469	0.3854	0.0056	1.0225	0.9009	0.9083	0.9881	0.8954	0.9354	0.9023	1.0177
271390505	0.7324	0.0203	0.5	0.501	0.3786	0.9287	2.4957	1.7911	1.1316	0.6371	0.0205	1.0236	0.816	0.882	0.9796	0.8738	0.8948	0.8698	1.0111
271453052	0.5738	0.0142	0.5	0.4818	0.2733	0.7512	2.7432	1.4941	1.0108	0.501	0.0143	1.0265	0.8366	0.8834	0.9831	0.8704	0.9036	0.8732	1.0108
280330002	1.2	0.0158	0.5	0.7479	0.7487	1.0435	3.3483	2.9694	0.2434	0.9783	0.016	1.0441	0.8397	0.8207	0.9813	0.8109	0.8986	0.8152	1.0174
290210005	0.7898	0.0089	0.5	0.607	0.3088	0.8851	5.4623	1.9245	0.8141	0.6657	0.009	1.0577	0.8238	0.8599	0.9889	0.8437	0.8899	0.8429	1.0153
290370003	0.888	0.0173	0.5	0.66	0.4023	0.9573	3.0754	2.1737	0.8044	0.7381	0.0175	1.0519	0.8255	0.8489	0.9874	0.8333	0.8915	0.8312	1.015
290470005	0.9161	0.0123	0.5	0.4706	0.2332	0.9808	3.6592	2.1746	0.814	0.7604	0.0125	1.0522	0.8063	0.8476	0.9833	0.8346	0.8936	0.8301	1.0157
290770032	0.9338	0	0.5	0.7264	0.2792	0.8917	4.2015	2.3271	0.4211	0.777	0	1.0597	0.8381	0.8418	0.9803	0.8323	0.8888	0.8321	1
290950034	0.8663	0.0233	0.5	0.7035	0.4705	0.975	4.4312	2.1988	0.8635	0.734	0.0236	1.0503	0.7931	0.8587	0.9808	0.8476	0.889	0.8472	1.0128
291860006	1.0881	0.0117	0.5	0.4876	0.2629	1.07	4.379	2.7981	0.6092	0.8878	0.0119	1.0539	0.8369	0.8349	0.9844	0.8176	0.9054	0.816	1.0187
291892003	1.1077	0.0145	0.5	0.5683	0.3623	1.1851	3.801	2.8837	0.846	0.9337	0.0148	1.0682	0.7785	0.8562	0.9758	0.8438	0.8893	0.843	1.0176
295100007	1.0625	0.0127	0.5	0.5748	0.3643	1.1432	4.9095	2.874	0.7927	0.8988	0.0129	1.0715	0.7772	0.8571	0.9789	0.8431	0.8897	0.8458	1.0149
295100085	1.1589	0.0128	0.5	0.5622	0.3532	1.2358	4.6411	2.9598	0.8821	0.9757	0.013	1.0667	0.7808	0.8555	0.9767	0.8434	0.8909	0.842	1.0155
295100087	1.1527	0.0131	0.5	0.5625	0.3578	1.2231	4.8723	2.9329	0.88	0.9635	0.0133	1.0697	0.7838	0.849	0.9799	0.8357	0.8938	0.8359	1.0164
310550019	0.7951	0.0138	0.5	0.9199	0.4333	1.0694	2.1469	2.1914	1.1087	0.7599	0.014	1.197	0.9418	0.9513	1.0037	0.9786	0.8844	0.9558	1.0126
310550052	0.763	0.0133	0.5	0.7982	0.3595	0.9461	2.1681	1.921	1.0022	0.6743	0.0134	1.0699	0.8328	0.8925	0.9853	0.8935	0.8854	0.8838	1.0129
310790004	0.6404	0.0018	0.5	0.7295	0.2441	0.7188	2.1937	1.5513	0.6594	0.5431	0.0019	1.035	0.8188	0.8572	0.9861	0.8475	0.8859	0.8481	1.0246
311090022	0.7067	0.0095	0.5	0.7345	0.2869	0.8216	1.8571	1.712	0.8199	0.6016	0.0096	1.0397	0.7806	0.8647	0.9775	0.8566	0.8858	0.8513	1.0131
311530007	0.8072	0.0138	0.5	0.9408	0.4354	1.0627	2.2319	2.2145	1.0605	0.7685	0.014	1.2044	0.9555	0.9498	1.0045	0.9771	0.8846	0.952	1.0126
311770002	0.7412	0.0103	0.5	0.7416	0.3253	0.9016	2.0517	1.8061	0.9799	0.6401	0.0104	1.0536	0.8275	0.8766	0.9882	0.8698	0.8875	0.8636	1.0116
330012004	0.5442	0.037	0.5	0.2431	0.3253	0.5386	2.179	1.7552	0.1744	0.46	0.0378	1.0209	0.9192	0.8603	0.9822	0.8428	0.9963	0.8453	1.0203
330050007	0.653	0.0234	0.5	0.2712	0.3284	0.6345	5.8209	1.9443	0.2089	0.5486	0.024	1.0279	0.9129	0.8532	0.982	0.836	0.991	0.8403	1.0249
330090010	0.5007	0.0162	0.5	0.2276	0.2541	0.507	3.4935	1.5947	0.1902	0.4196	0.0165	1.027	0.9277	0.8516	0.984	0.8343	0.9927	0.8381	1.0228
330111015	0.7397	0.062	0.5	0.3214	0.4841	0.7552	3.4682	2.3012	0.3075	0.6327	0.0633	1.0154	0.8981	0.8697	0.981	0.8533	0.9761	0.8554	1.022
330131006	0.7228	0.0573	0.5	0.3133	0.4844	0.7229	3.274	2.2136	0.3203	0.6062	0.059	1.0234	0.9151	0.8594	0.9839	0.8347	0.9963	0.8387	1.0295
330150014	0.5708	0.0807	0.5	0.2668	0.377	0.5785	3.4753	2.0443	0.1749	0.4951	0.0821	1.0263	0.9029	0.881	0.9814	0.8667	0.9949	0.8674	1.0165
330190003	0.5224	0.0207	0.5	0.2439	0.275	0.5275	4.4689	1.6654	0.1957	0.4389	0.0213	1.031	0.9232	0.8516	0.9828	0.8324	0.9931	0.8403	1.0247

MATS 2.3.1 - Ouput File - Annual PM-2.5
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Year																				
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt	
340011006	1.2058	0.0921	0.5	0.4641	0.3502	1.042	3.4446	2.9127	0.2227	1.0039	0.093	1.0806	0.8725	0.8448	0.9833	0.8344	0.9996	0.8326	1.0104	
340030003	1.2556	0.0699	0.5	0.5752	0.9036	1.2676	2.9272	3.0649	0.6629	1.0598	0.0713	1.0399	0.8332	0.8624	0.9854	0.8469	0.9554	0.8441	1.0206	
340071007	1.3143	0.0354	0.5	0.6496	0.5687	1.3355	3.191	3.1643	0.7946	1.0785	0.0363	1.0375	0.8355	0.846	0.9749	0.8237	0.9564	0.8205	1.0252	
340171003	1.2299	0.0596	0.5	0.5824	0.9267	1.3443	3.4894	3.1282	0.7688	1.0654	0.0606	1.0443	0.8478	0.8817	0.9847	0.8687	0.9508	0.8662	1.0182	
340172002	1.2894	0.0624	0.5	0.5972	0.9646	1.3967	4.2468	3.2523	0.8059	1.1101	0.0635	1.0417	0.8441	0.8783	0.9844	0.8645	0.9496	0.8609	1.018	
340210008	1.221	0.033	0.5	0.4688	0.508	1.2058	3.3281	2.9695	0.6587	0.9989	0.0339	1.0563	0.8318	0.8462	0.9851	0.8214	0.9833	0.8181	1.027	
340218001	1.1217	0.0268	0.5	0.4136	0.4568	1.0896	2.2776	2.7187	0.562	0.917	0.0276	1.056	0.8312	0.8429	0.9851	0.8187	0.9827	0.8175	1.0301	
340230006	1.163	0.0272	0.5	0.3916	0.502	1.1274	3.2181	2.8757	0.5501	0.9589	0.028	1.0561	0.8327	0.848	0.9853	0.8266	0.9891	0.8244	1.0291	
340270004	1.1151	0.0255	0.5	0.3774	0.5757	1.076	2.4676	2.7749	0.5054	0.9201	0.0262	1.0555	0.8509	0.8481	0.9864	0.8265	0.9913	0.8252	1.0265	
340273001	1.0426	0.0059	0.5	0.249	0.2843	0.9747	2.413	2.7004	0.3605	0.8565	0.0061	1.0573	0.8572	0.8405	0.9861	0.8218	1.0037	0.8215	1.0279	
340292002	1.0982	0.0513	0.5	0.4808	0.6241	1.0536	2.3819	2.6705	0.4825	0.908	0.0525	1.0665	0.855	0.85	0.9813	0.8296	1.011	0.8268	1.0224	
340310005	1.2437	0.0558	0.5	0.5626	0.9237	1.2616	2.9593	3.0335	0.7039	1.0381	0.057	1.0459	0.8362	0.8575	0.985	0.8376	0.966	0.8347	1.0206	
340390004	1.2191	0.0533	0.5	0.6204	1.2807	1.2734	3.9749	3.0017	0.7004	1.0355	0.0546	1.0544	0.8509	0.8704	0.9863	0.8546	0.9668	0.8494	1.0249	
340390006	1.2181	0.0488	0.5	0.5998	1.2263	1.2618	3.1219	2.9884	0.6828	1.0334	0.05	1.0504	0.852	0.8683	0.9862	0.852	0.963	0.8484	1.0231	
340392003	1.2143	0.0472	0.5	0.5803	1.1547	1.2513	3.005	2.9906	0.6659	1.0322	0.0484	1.0541	0.8511	0.871	0.9864	0.853	0.9675	0.85	1.0249	
340410006	1.2796	0.0196	0.5	0.409	0.5629	1.2751	2.9284	3.0952	0.7444	1.0452	0.0202	1.0479	0.8496	0.8475	0.9836	0.8197	0.9947	0.8168	1.0293	
360050080	1.2863	0.0826	0.5	0.5947	0.9342	1.3153	4.7526	3.1755	0.7045	1.0957	0.0844	1.0398	0.8359	0.8706	0.9852	0.8555	0.9555	0.8518	1.0219	
360050110	1.2749	0.0768	0.5	0.5844	0.925	1.3024	2.9803	3.1832	0.6563	1.1026	0.0785	1.0408	0.8458	0.878	0.9848	0.8694	0.9493	0.8648	1.022	
360130011	1.011	0.0093	0.5	0.391	0.356	0.953	1.7004	2.4178	0.4875	0.8051	0.0095	1.1299	0.8894	0.8218	1.0027	0.7967	0.9882	0.7963	1.0282	
360290005	1.0103	0.0317	0.5	0.3942	0.3217	1.0019	4.0035	2.4824	0.6603	0.8331	0.0325	1.1054	0.8972	0.8498	1.0057	0.8237	0.9729	0.8246	1.0237	
360291007	1.0188	0.0307	0.5	0.3876	0.3236	1.0137	3.614	2.5242	0.6529	0.8412	0.0315	1.1053	0.8973	0.848	1.0057	0.8249	0.9726	0.8257	1.0237	
360310003	0.3756	0.0049	0.5	0.1118	0.1001	0.3863	1.6464	1.4863	0.0957	0.3109	0.005	1.0517	0.9427	0.8366	0.9974	0.8248	0.9815	0.8278	1.0126	
360470122	1.2572	0.0628	0.5	0.5937	0.9406	1.3821	3.261	3.2173	0.7985	1.0967	0.064	1.0446	0.8505	0.8872	0.985	0.8753	0.9525	0.8723	1.0193	
360551007	0.9911	0.0295	0.5	0.2893	0.3364	1.0713	2.4378	2.4244	0.7969	0.8459	0.0301	1.0794	0.8998	0.8736	1.0074	0.8541	0.9584	0.8534	1.02	
360590008	1.0898	0.0537	0.5	0.4969	0.809	1.1283	2.7428	2.7345	0.5821	0.9429	0.0549	1.044	0.8476	0.8814	0.9861	0.8683	0.9572	0.8652	1.021	
360610079	1.3044	0.0772	0.5	0.6073	0.9658	1.3608	3.0545	3.2842	0.722	1.1337	0.0789	1.041	0.8461	0.8841	0.9851	0.871	0.9496	0.8691	1.022	
360632008	1.0054	0.0342	0.5	0.409	0.351	1.0184	3.1287	2.506	0.6861	0.839	0.0349	1.0801	0.9364	0.8548	1.0034	0.8318	0.964	0.8344	1.021	
360671015	0.8929	0.0063	0.5	0.2996	0.2805	0.8533	2.464	2.3602	0.3929	0.7383	0.0065	1.0703	0.8901	0.8462	0.9992	0.8276	0.96	0.8268	1.0233	
360710002	1.0327	0.0274	0.5	0.3866	0.5203	0.9744	2.7637	2.6162	0.3976	0.8645	0.0279	1.0424	0.8766	0.8569	0.9995	0.8398	0.9739	0.8371	1.0172	
360810124	1.1609	0.064	0.5	0.5347	0.856	1.1992	2.662	2.889	0.63	0.9968	0.0654	1.0404	0.8429	0.8755	0.9866	0.8619	0.9539	0.8587	1.0214	
360850055	1.1947	0.0505	0.5	0.592	1.1637	1.2659	3.1012	3.0028	0.6719	1.0363	0.0516	1.051	0.8485	0.8813	0.9852	0.8669	0.9613	0.8675	1.0224	
360850067	1.0312	0.04	0.5	0.4915	0.9425	1.0574	2.9799	2.5631	0.5106	0.8895	0.0409	1.0508	0.8477	0.8761	0.9852	0.8636	0.9612	0.8626	1.0214	
360893001	0.4474	0.0099	0.5	0.1794	0.177	0.4876	2.0194	1.4895	0.261	0.3737	0.0101	1.0477	0.9579	0.8514	1.002	0.8305	0.9789	0.8353	1.0131	
361010003	0.8458	0	0.5	0.3137	0.2722	0.7847	1.9147	2.429	0.2417	0.681	0	1.0933	0.8888	0.818	0.9995	0.8002	0.9743	0.8052	1	
361030002	1.0503	0.0536	0.5	0.462	0.7044	1.0679	2.709	2.6089	0.562	0.8931	0.0548	1.0566	0.8474	0.8731	0.9906	0.8557	0.9768	0.8504	1.0225	
361191002	1.2172	0.0679	0.5	0.5454	0.8361	1.2112	2.3782	2.9874	0.6059	1.0318	0.0695	1.0476	0.8383	0.8719	0.9888	0.8541	0.9686	0.8477	1.0232	
370010002	1.3831	0.0124	0.5	0.3951	0.4501	1.1012	3.9922	3.2696	0.1926	1.0398	0.0125	1.0765	0.8389	0.7581	0.9871	0.7455	0.9259	0.7518	1.0117	
370210034	1.1409	0.0068	0.5	0.3509	0.3563	0.849	3.8716	2.6869	0.0541	0.8425	0.007	1.0615	0.8481	0.7383	0.9859	0.7299	0.9617	0.7385	1.018	
370330001	1.4048	0.0118	0.5	0.3893	0.4593	1.1121	3.3721	3.2953	0.1967	1.0501	0.012	1.0816	0.8488	0.7571	0.988	0.7431	0.9655	0.7475	1.0106	
370350004	1.5502	0.015	0.5	0.3734	0.6242	1.1765	4.7332	3.2905	0.205	1.1476	0.0153	1.0719	0.8431	0.7514	0.9851	0.7416	0.9073	0.7403	1.0196	
370370004	1.3567	0.0113	0.5	0.3893	0.4144	1.0866	3.1877	3.2	0.1667	1.0341	0.0114	1.0735	0.8424	0.7647	0.986	0.7553	0.8831	0.7622	1.0094	
370510009	1.3093	0.0135	0.5	0.3337	0.4094	1.1128	4.6	3.0963	0.2646	1.0286	0.0136	1.0587	0.8362	0.789	0.9854	0.7776	0.848	0.7856	1.004	
370570002	1.6222	0.026	0.5	0.4564	0.5252	1.2613	4.5102	3.6237	0.2124	1.2169	0.0264	1.0756	0.8363	0.7625	0.9939	0.7486	0.9456	0.7501	1.0156	
370610002	1.2389	0.0337	0.5	0.3257	0.3004	0.9876	3.0286	2.8117	0.1382	0.9748	0.0339	1.0599	0.8711	0.7857	0.9901	0.7811	0.8103	0.7868	1.0052	
370650004	1.336	0.0274	0.5	0.3822	0.3701	1.0594	3.6044	3.0408	0.1476	1.0246	0.0277	1.0633	0.8576	0.7709	0.9887	0.7598	0.8706	0.7669	1.0086	
370670022	1.5541	0.0111	0.5	0.3264	0.4201	1.2257	3.6983	3.563	0.1961	1.1591	0.0113	1.0833	0.7973	0.7572	0.9828	0.7433	0.9453	0.7459	1.0198	
370670030	1.5509	0.0136	0.5	0.3603	0.4462	1.2256	3.5896	3.5223	0.2138	1.1614	0.0139	1.0795	0.8117	0.7594	0.9847	0.7454	0.9408	0.7488	1.0201	
370710016	1.4678	0.0128	0.5	0.4431	0.5212	1.1308	4.1199	3.2647	0.1964	1.0859	0.013	1.0726	0.8413	0.7499	0.9865	0.7359	0.9514	0.7398	1.0094	
370990006	1.118	0	0.5	0.5249	0.3355	0.8268	4.047	2.6432	0.0544	0.8019	0	1.0787	0.8659	0.7171	0.9858	0.7079	0.9598	0.7172	1	
371070004	1.2589	0.0396	0.5	0.3232	0.2582	0.9725	3.0965	2.7555	0.1085	0.9782	0.0398	1.0597	0.8784	0.7809	0.9917	0.7751	0.8405	0.7771	1.0058	
371110004	1.2774	0.0022	0.5	0.4031	0.3883	0.9252	5.1152	2.795	0.0723	0.9329	0.0023	1.0775	0.8705	0.7332	0.9858	0.7248	0.9763	0.7303	1.019	
371170001	1.3155	0.0381	0.5	0.3621	0.3359	1.0456	2.6151	2.9749	0.1654	1.0168	0.0383	1.0628	0.8854	0.7814	0.991	0.7724	0.9283	0.7729	1.0049	
371190041	1.45	0.0132	0.5	0.4615	0.4668	1.117	4.4974	3.2585	0.185	1.0724	0.0133	1.0764	0.8158	0.7499	0.9838	0.7362	0.9178	0.7395	1.0088	
371190042	1.4581	0.0134	0.5	0.4613	0.4799	1.1325	4.6172	3.2942	0.194	1.083	0.0135	1.0757	0.8162	0.7511	0.9839	0.7387	0.9178	0.7428	1.0092	
371190043	1.5049	0.0128	0.5	0.4847	0.4987	1.171	3.8011	3.3917	0.2049	1.1219	0.0129	1.0854	0.8268	0.7533	0.9858	0.7404	0.944	0.7455	1.0092	
371210001	1.3135	0	0.5	0.4513	0.352	0.9324	3.9925	2.8287	0.0447	0.9569	0	1.0815	0.8745	0.7317	0.9879	0.7259	0.9656	0.7285	1	
371230001	1.3415	0.0131	0.5	0.3643	0.3947	1.0565	3.1334	3.1484	0.1613	1.0084	0.0132	1.063	0.8626	0.7561	0.9876	0.7445	0.8789	0.7517	1.0103	

MATS 2.3.1 - Ouput File - Annual PM-2.5
2014 Business As Usual Scenario

Year																			
id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
371470005	1.3397	0.0392	0.5	0.3518	0.3033	1.0411	3.3815	2.9576	0.1311	1.0349	0.0394	1.0538	0.883	0.7761	0.9915	0.7693	0.8798	0.7725	1.0052
371550005	1.2827	0.0178	0.5	0.3299	0.3814	1.0631	4.0447	3.0644	0.2227	0.9953	0.0179	1.0608	0.8609	0.7781	0.9885	0.7683	0.8351	0.7759	1.0062
371590021	1.5021	0.0131	0.5	0.3759	0.4161	1.1711	4.4024	3.4228	0.1801	1.1316	0.0132	1.0764	0.8481	0.7614	0.9957	0.7504	0.9273	0.7533	1.01
371730002	1.1665	0	0.5	0.5494	0.3629	0.8709	4.2515	2.7819	0.066	0.8375	0	1.0815	0.8646	0.7173	0.9864	0.7092	0.9589	0.7179	1
371830014	1.3234	0.0163	0.5	0.4158	0.4034	1.0802	4.2286	3.1681	0.1407	1.0185	0.0164	1.0602	0.7919	0.7714	0.9791	0.7602	0.8822	0.7696	1.0062
371890003	1.3547	0.0037	0.5	0.3914	0.4282	0.9907	2.5655	2.8752	0.1138	0.9956	0.0038	1.0834	0.8711	0.7434	0.9887	0.7347	0.9569	0.7349	1.0318
371910005	1.2944	0.0317	0.5	0.3421	0.3278	1.0099	4.538	2.8614	0.1381	0.9946	0.032	1.0507	0.8769	0.7727	0.9911	0.765	0.8298	0.7684	1.0083
380171004	0.477	0.0135	0.5	0.8518	0.2172	0.6065	2.8757	1.1845	0.8212	0.417	0.0136	1.0152	0.8046	0.886	0.9758	0.8712	0.9061	0.8742	1.009
390090003	1.3858	0.0074	0.5	0.5452	0.4328	1.1928	2.3288	3.5084	0.4009	1.0542	0.0076	1.1424	0.8673	0.7787	0.9977	0.7568	0.9823	0.7607	1.0288
390170003	1.5663	0.0165	0.5	0.6892	0.4746	1.5326	3.583	3.6535	0.999	1.2536	0.0171	1.0913	0.8047	0.8259	0.9911	0.8013	0.9421	0.8003	1.0344
390170016	1.4935	0.0264	0.5	0.5115	0.4844	1.4465	4.0453	3.4582	0.88	1.1875	0.0272	1.1036	0.8006	0.8186	0.9884	0.7958	0.9335	0.7951	1.0306
390230005	1.4122	0.0091	0.5	0.4216	0.4253	1.4387	3.7109	3.3007	0.943	1.1335	0.0093	1.0789	0.8083	0.8248	0.9913	0.8049	0.9076	0.8027	1.0264
390250022	1.4965	0.0225	0.5	0.4719	0.5011	1.4489	2.7897	3.5086	0.8275	1.2024	0.023	1.1193	0.8255	0.8291	0.9956	0.8062	0.9432	0.8035	1.025
390350027	1.3737	0.1508	0.5	1.2029	0.7402	1.5203	2.4043	3.2687	1.1911	1.1311	0.1555	1.1136	0.8142	0.8462	0.9858	0.8224	0.9354	0.8234	1.0313
390350034	1.2451	0.1163	0.5	1.0542	0.6297	1.3267	2.1917	2.9198	0.978	1.0162	0.1201	1.1288	0.813	0.8409	0.9872	0.817	0.9428	0.8162	1.0323
390350038	1.3835	0.1495	0.5	1.2012	0.7344	1.5026	4.0256	3.2628	1.1351	1.1325	0.1542	1.1137	0.814	0.8408	0.9857	0.8189	0.9355	0.8186	1.0312
390350045	1.3963	0.1458	0.5	1.2092	0.7374	1.512	3.2197	3.2871	1.1389	1.1407	0.1504	1.1134	0.8139	0.8415	0.986	0.8193	0.9349	0.8169	1.0313
390350060	1.3913	0.1409	0.5	1.2093	0.7406	1.4964	3.8145	3.2753	1.0927	1.1377	0.1453	1.1135	0.8138	0.8401	0.986	0.8173	0.9335	0.8177	1.0307
390350065	1.4587	0.1462	0.5	1.2534	0.7629	1.5604	3.0399	3.4245	1.1395	1.1889	0.1507	1.1131	0.8138	0.8419	0.986	0.818	0.9327	0.815	1.0304
390351002	1.2594	0.0921	0.5	1.0097	0.5559	1.3331	2.5462	2.9812	1.013	1.0311	0.0951	1.1019	0.8181	0.8426	0.9871	0.8173	0.9374	0.8188	1.0326
390490024	1.4283	0.0182	0.5	0.5766	0.4239	1.338	3.8744	3.3292	0.7333	1.122	0.0187	1.0817	0.7811	0.8068	0.9832	0.787	0.9108	0.7855	1.0265
390490025	1.4295	0.0181	0.5	0.5835	0.437	1.3347	3.7568	3.3413	0.735	1.1174	0.0186	1.0831	0.7925	0.8065	0.9863	0.7855	0.9163	0.7816	1.0277
390570005	1.4151	0.0107	0.5	0.4311	0.4236	1.421	2.5819	3.2782	0.9144	1.1285	0.011	1.0826	0.8038	0.8212	0.991	0.7997	0.9196	0.7975	1.0278
390610006	1.4909	0.0242	0.5	0.4885	0.4774	1.428	3.4253	3.4404	0.8195	1.1852	0.0248	1.1024	0.7924	0.8173	0.9898	0.7972	0.9334	0.7949	1.0285
390610014	1.5547	0.0325	0.5	0.4607	0.5079	1.5284	5.2728	3.5877	0.9023	1.2492	0.0336	1.1139	0.8023	0.8262	0.9888	0.8073	0.9323	0.8035	1.0324
390610040	1.5377	0.0359	0.5	0.4471	0.5013	1.4986	3.5169	3.5315	0.8562	1.2307	0.037	1.1135	0.802	0.8251	0.9894	0.8062	0.9306	0.8003	1.0297
390610042	1.5132	0.0206	0.5	0.4428	0.5338	1.4615	4.8571	3.544	0.8391	1.2087	0.0213	1.1134	0.834	0.8221	0.9906	0.7997	0.9378	0.7988	1.0307
390610043	1.5077	0.0291	0.5	0.5103	0.4706	1.4673	4.0047	3.4586	0.8989	1.2	0.03	1.1033	0.7927	0.821	0.9892	0.7979	0.935	0.7959	1.0312
390617001	1.5243	0.0285	0.5	0.4424	0.5016	1.4754	4.2228	3.5301	0.8289	1.224	0.0294	1.1134	0.8021	0.8242	0.9893	0.8062	0.9303	0.803	1.0312
390618001	1.4993	0.0249	0.5	0.4367	0.4893	1.4602	5.3942	3.4796	0.8368	1.2056	0.0256	1.1136	0.8022	0.8287	0.9892	0.8072	0.9312	0.8041	1.0303
390811001	1.6756	0.0334	0.5	0.9468	0.7634	1.4361	3.7923	3.8012	0.4689	1.3116	0.0347	1.1514	0.8711	0.806	0.9998	0.789	0.9722	0.7827	1.038
390853002	1.3406	0.0723	0.5	0.9879	0.5923	1.3604	2.3611	3.142	0.9113	1.0845	0.0746	1.1452	0.8364	0.8399	0.9937	0.8124	0.9687	0.809	1.0324
390933002	1.0247	0.0195	0.5	0.966	0.3522	1.0646	3.7831	2.6418	0.6943	0.8424	0.0201	1.1011	0.8235	0.8428	0.9876	0.8186	0.9497	0.8221	1.0295
390950024	1.2467	0.0122	0.5	0.4828	0.4765	1.4007	3.7202	2.9404	1.242	1.0328	0.0125	1.0742	0.813	0.8509	0.984	0.8286	0.9187	0.8284	1.0294
390950026	1.2621	0.019	0.5	0.492	0.4946	1.4414	3.4487	2.9768	1.3147	1.0464	0.0194	1.0625	0.812	0.8502	0.9835	0.8304	0.913	0.8291	1.024
390990005	1.3413	0.0285	0.5	0.9251	0.6109	1.3127	3.6739	3.1614	0.7753	1.0767	0.0293	1.1032	0.8382	0.8301	0.9933	0.805	0.9541	0.8027	1.0277
390990014	1.3268	0.0252	0.5	0.9119	0.5915	1.2844	3.9632	3.1099	0.733	1.063	0.0259	1.1022	0.8381	0.8277	0.9933	0.8034	0.9543	0.8012	1.0261
391030003	1.3244	0.0418	0.5	0.7208	0.4315	1.3445	2.5435	3.1237	0.9436	1.0622	0.0431	1.0966	0.833	0.8286	0.9918	0.8046	0.9316	0.802	1.0306
391130032	1.4065	0.0096	0.5	0.3818	0.4055	1.4602	4.4451	3.3286	0.9479	1.1445	0.0099	1.0828	0.7937	0.8333	0.9888	0.8129	0.9165	0.8137	1.0262
391330002	1.3808	0.0394	0.5	0.6835	0.5134	1.4072	2.6287	3.2394	0.9922	1.1053	0.0407	1.1053	0.823	0.8306	0.9914	0.8035	0.95	0.8005	1.0327
391351001	1.424	0.0142	0.5	0.4914	0.4192	1.4419	2.8394	3.3494	0.9538	1.155	0.0146	1.0745	0.8163	0.8317	0.9929	0.8131	0.9143	0.8111	1.0312
391450013	1.4458	0.013	0.5	0.5288	0.5939	1.2518	3.698	3.6114	0.3765	1.1232	0.0132	1.1091	0.8787	0.7921	0.994	0.7726	0.9686	0.7769	1.0196
391530017	1.3531	0.0264	0.5	0.4675	0.4171	1.399	4.5044	3.1983	0.9921	1.0887	0.0272	1.1054	0.8124	0.834	0.9904	0.8075	0.9461	0.8046	1.0293
391530023	1.3246	0.0214	0.5	0.4066	0.395	1.3816	3.8214	3.1442	0.9922	1.0691	0.022	1.1041	0.8136	0.8362	0.9902	0.811	0.9442	0.8071	1.0274
391550007	1.3298	0.0284	0.5	0.8566	0.5858	1.3058	3.6544	3.1278	0.7918	1.0659	0.0292	1.0987	0.8466	0.8308	0.993	0.8034	0.9592	0.8015	1.0282
400159008	0.6958	0	0.5	0.6566	0.2433	0.7038	3.0082	1.9012	0.3052	0.6127	0	1.0321	0.8393	0.88	0.9864	0.8804	0.8796	0.8805	1
400970186	0.9195	0.0051	0.5	0.8013	0.3622	0.9019	4.5945	2.4101	0.3865	0.7873	0.0052	1.0535	0.8723	0.8642	0.9933	0.8545	0.8914	0.8563	1.0279
401010169	0.9396	0.0076	0.5	0.7247	0.3605	0.9153	4.6438	2.4636	0.3727	0.8056	0.0078	1.0518	0.8605	0.8613	0.9955	0.8536	0.8989	0.8575	1.0173
401091037	0.8906	0.0067	0.5	0.6698	0.3319	0.9421	3.1579	2.3677	0.5665	0.7734	0.0069	1.029	0.8007	0.8765	0.9787	0.8671	0.8875	0.8685	1.016
401159004	0.8934	0	0.5	0.8731	0.3171	0.8704	4.3781	2.2701	0.4193	0.7497	0	1.0428	0.8583	0.8477	0.9884	0.8379	0.8861	0.8392	1
401359015	0.8845	0	0.5	0.6555	0.3045	0.8287	5.4928	2.259	0.2965	0.748	0	1.0424	0.8622	0.8535	0.9895	0.8422	0.9008	0.8457	1
401431127	0.9531	0.0075	0.5	0.7298	0.4013	0.9609	4.1169	2.575	0.4149	0.8312	0.0076	1.033	0.8637	0.8742	0.9891	0.8698	0.8962	0.8721	1.0182
420010001	1.3495	0.0236	0.5	0.2462	0.2616	1.2709	2.8795	3.1215	0.7994	1.0277	0.0245	1.087	0.8612	0.7916	0.9928	0.7583	0.9571	0.7616	1.0376
420030008	1.4663	0	0.5	1.0074	0.7538	1.3094	3.4715	3.5772	0.5786	1.1463	0	1.1263	0.8566	0.8028	0.9947	0.7801	0.969	0.7817	1
420030064	1.4797	0	0.5	0.7816	0.6414	1.2649	8.3586	3.4242	0.4969	1.1347	0	1.1221	0.8594	0.7943	1.002	0.7688	0.9763	0.7669	1
420030067	1.3444	0.0072	0.5	0.7137	0.5842	1.1876	2.2746	3.4158	0.4355	1.0464	0.0075	1.1324	0.8653	0.7966	0.9954	0.7745	0.9737	0.7783	1.0344
420031008	1.5224	0.0031	0.5	0.8457	0.7077	1.3251	3.7291	3.4973	0.5981	1.1606	0.0032	1.137	0.8658	0.7918	1.0009	0.7639	0.9945	0.7624	1.0534

MATS 2.3.1 - Ouput File - Annual PM-2.5
2014 Business As Usual Scenario

Year																				
id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt	
420031301	1.5541	0	0.5	0.9427	0.7464	1.3728	4.4075	3.6513	0.6082	1.2086	0	1.1223	0.857	0.799	0.9982	0.7754	0.9759	0.7777	1	
420033007	1.5986	0.006	0.5	0.8192	0.6869	1.3627	3.6398	3.6724	0.5285	1.2261	0.0062	1.1223	0.8595	0.7915	0.9985	0.7703	0.9763	0.767	1.0474	
420070014	1.3832	0.0178	0.5	0.7615	0.5985	1.2515	5.3648	3.4245	0.5123	1.1054	0.0182	1.1506	0.8696	0.8224	1.0003	0.8008	0.9672	0.7991	1.0251	
420110011	1.2834	0.0718	0.5	0.3816	0.5581	1.4295	4.0705	3.0261	1.1437	1.057	0.074	1.0684	0.845	0.8491	0.9894	0.8196	0.9633	0.8236	1.0308	
420170012	1.2903	0.0364	0.5	0.5524	0.5457	1.2951	3.4495	3.1185	0.7333	1.0614	0.0372	1.0491	0.825	0.848	0.9789	0.8242	0.9662	0.8226	1.024	
420210011	1.4883	0.0063	0.5	0.4814	0.4836	1.2206	5.0186	3.1692	0.4932	1.079	0.0067	1.2371	0.8803	0.7563	1.0104	0.7285	1.0114	0.725	1.058	
420270100	1.3601	0.0073	0.5	0.3114	0.3223	1.2223	2.5561	3.1291	0.6188	1.0359	0.0076	1.1003	0.8711	0.7913	0.9954	0.7626	0.9876	0.7616	1.0345	
420410101	1.3073	0.019	0.5	0.3718	0.408	1.2354	4.2369	2.9829	0.8345	1.0006	0.0196	1.0865	0.8483	0.7961	0.9924	0.7621	0.97	0.7654	1.0343	
420430401	1.4906	0.0426	0.5	0.441	0.5955	1.5053	3.2274	3.2806	1.2002	1.1451	0.0443	1.076	0.8392	0.8044	0.9912	0.7654	0.9637	0.7682	1.0401	
420450002	1.3639	0.0435	0.5	0.6665	0.5743	1.3533	4.0605	3.5534	0.7765	1.1186	0.0445	1.059	0.8536	0.8444	0.9795	0.8201	0.9638	0.8201	1.0218	
420490003	1.1677	0.0128	0.5	0.4614	0.4012	1.1229	3.3176	2.8038	0.6042	0.9345	0.0132	1.1286	0.8638	0.8271	0.9972	0.7992	0.9913	0.8003	1.0294	
420692006	1.1665	0.01	0.5	0.3405	0.4617	1.0773	2.6543	2.9232	0.4791	0.9385	0.0103	1.0637	0.8601	0.8241	0.9889	0.8044	0.9774	0.8045	1.0233	
420710007	1.4378	0.0849	0.5	0.3725	0.4717	1.6571	3.6759	3.2577	1.5634	1.1373	0.0881	1.0601	0.8412	0.8216	0.9907	0.7844	0.9389	0.791	1.0376	
420850100	1.3202	0.0249	0.5	0.8373	0.5825	1.2556	2.8173	3.0957	0.678	1.0544	0.0255	1.1036	0.8443	0.8268	0.9937	0.8041	0.9594	0.7987	1.0267	
420910013	1.3702	0.0377	0.5	0.5458	0.571	1.3598	2.6227	3.2427	0.8243	1.1093	0.0387	1.0556	0.8239	0.8362	0.9816	0.8124	0.9595	0.8096	1.0263	
420950025	1.3036	0.0211	0.5	0.4148	0.5882	1.304	3.6225	3.1247	0.7795	1.0613	0.0217	1.0464	0.8359	0.8425	0.983	0.8162	0.983	0.8141	1.0289	
421010004	1.348	0.0341	0.5	0.6298	0.5842	1.355	3.7918	3.2248	0.7872	1.1029	0.0349	1.0375	0.8354	0.8415	0.9745	0.8214	0.9559	0.8182	1.0241	
421250005	1.5812	0.0058	0.5	0.716	0.6352	1.3192	3.9558	3.5684	0.4987	1.1881	0.0061	1.1408	0.8629	0.7752	1.0006	0.7531	0.9936	0.7514	1.0486	
421250200	1.507	0.0184	0.5	0.6984	0.5962	1.2727	3.3422	3.561	0.4387	1.1528	0.019	1.1452	0.8601	0.7873	0.9981	0.7647	0.9893	0.765	1.0314	
421290008	1.5577	0.0191	0.5	0.4574	0.5768	1.2582	4.2507	3.2798	0.5023	1.118	0.0197	1.1555	0.8633	0.7519	1.0021	0.7243	1.0033	0.7177	1.0304	
421330008	1.4929	0.046	0.5	0.5417	0.6202	1.5562	3.7604	3.2934	1.2564	1.1451	0.0479	1.071	0.8579	0.8064	0.9938	0.7663	0.9627	0.767	1.0424	
440030002	0.7349	0.0602	0.5	0.3019	0.3625	0.7118	2.022	2.1517	0.2394	0.6122	0.0617	1.0581	0.8641	0.8446	0.983	0.8276	0.9911	0.833	1.0241	
440070022	0.7751	0.0514	0.5	0.3184	0.4066	0.7923	3.3647	2.3004	0.338	0.656	0.0527	1.0548	0.8438	0.8594	0.9769	0.8388	0.9866	0.8463	1.0262	
440070026	0.7957	0.0732	0.5	0.3298	0.4074	0.7959	5.0268	2.4115	0.2906	0.6754	0.0752	1.0544	0.8419	0.8596	0.9764	0.8416	0.9833	0.8488	1.027	
440070028	0.7704	0.0556	0.5	0.3163	0.4096	0.7923	3.774	2.2977	0.3442	0.6516	0.0571	1.0546	0.8431	0.8639	0.9774	0.8406	0.9857	0.8458	1.0264	
440071010	0.773	0.0786	0.5	0.3224	0.393	0.7695	3.064	2.3653	0.268	0.6546	0.0807	1.0544	0.8419	0.8565	0.9768	0.8419	0.9829	0.8469	1.0262	
450250001	1.1486	0.0115	0.5	0.2987	0.2695	0.9474	4.1696	3.1063	0.1136	0.8831	0.0116	1.0681	0.8541	0.7665	0.987	0.7525	0.8905	0.7688	1.0076	
450410002	1.1693	0.0291	0.5	0.3695	0.3295	0.9775	4.1017	3.164	0.1081	0.9201	0.0292	1.0662	0.8481	0.7838	0.9889	0.7724	0.8808	0.7868	1.0051	
450450008	1.2206	0.0107	0.5	0.376	0.3995	0.9588	6.045	2.9424	0.131	0.9032	0.0107	1.0564	0.8201	0.7471	0.9761	0.7305	0.9033	0.74	1.0027	
450450009	1.2654	0.0103	0.5	0.3829	0.4211	0.9999	5.2685	3.0663	0.1406	0.9396	0.0103	1.0563	0.82	0.746	0.9761	0.7312	0.9032	0.7426	1.0027	
450630008	1.2868	0.0132	0.5	0.592	0.4707	0.9936	5.2592	2.9999	0.0734	0.9863	0.0132	1.0562	0.8162	0.7663	0.9802	0.7565	0.8913	0.7665	1.0051	
450730001	1.1388	0.0034	0.5	0.4862	0.3189	0.8558	2.8816	2.6805	0.0806	0.8213	0.0035	1.0665	0.8531	0.722	0.9819	0.71	0.885	0.7212	1.0235	
450790007	1.3497	0.0151	0.5	0.6224	0.4885	1.0386	4.3583	3.1334	0.0786	1.0305	0.0152	1.0593	0.8044	0.763	0.9805	0.7557	0.8893	0.7635	1.0061	
450790019	1.3073	0.0155	0.5	0.6076	0.4757	1.0088	4.7659	3.041	0.0727	1.0019	0.0156	1.056	0.7986	0.7694	0.9793	0.7592	0.8831	0.7664	1.0057	
450830010	1.2802	0.0128	0.5	0.3953	0.4455	1.0047	4.8265	3.0618	0.1394	0.9518	0.0129	1.0581	0.8448	0.7448	0.9835	0.7305	0.9317	0.7435	1.0066	
460110002	0.5717	0.0039	0.5	0.5617	0.2319	0.6873	3.2845	1.3035	0.832	0.4838	0.0039	1.0263	0.8132	0.8602	0.9856	0.8498	0.882	0.8463	1.0138	
460130003	0.4664	0.0035	0.5	0.5872	0.2015	0.5431	3.4123	1.0861	0.6558	0.3898	0.0035	1.0244	0.8175	0.851	0.9852	0.826	0.8967	0.8357	1.0156	
460290002	0.5172	0.0042	0.5	0.5661	0.2173	0.6198	4.5804	1.2105	0.767	0.4373	0.0043	1.026	0.82	0.8613	0.9854	0.8451	0.8847	0.8457	1.0132	
460990006	0.624	0.0085	0.5	0.5506	0.2829	0.757	3.9437	1.4232	0.8861	0.5299	0.0086	1.0269	0.8066	0.8653	0.9793	0.8576	0.8817	0.8492	1.0118	
470090011	1.2101	0	0.5	0.5878	0.4011	0.9701	5.5407	3.1709	0.088	0.8997	0	1.0595	0.8319	0.7407	0.9891	0.7303	0.984	0.7435	1	
470370023	1.1718	0.0152	0.5	0.7183	0.5745	1.0905	4.171	3.2694	0.3418	0.9333	0.0155	1.0825	0.7971	0.8048	0.9828	0.7865	0.9141	0.7965	1.017	
470370036	1.2229	0.0138	0.5	0.7038	0.537	1.1173	3.0102	3.336	0.3258	0.9724	0.014	1.0799	0.8044	0.8029	0.9837	0.7835	0.9189	0.7952	1.0167	
470450004	1.2109	0.0041	0.5	0.6919	0.4841	1.0958	2.7992	3.1667	0.3197	0.9839	0.0043	1.0569	0.8348	0.8152	0.9889	0.8039	0.9061	0.8125	1.0323	
470650031	1.3749	0.0133	0.5	0.5282	0.4347	1.06	4.93	3.2554	0.0898	1.0326	0.0135	1.0642	0.8066	0.7545	0.9811	0.7441	0.9155	0.751	1.0154	
470651011	1.4714	0.0084	0.5	0.585	0.4936	1.1454	3.3845	3.4526	0.1362	1.1055	0.0086	1.0705	0.8153	0.7541	0.9807	0.7427	0.9412	0.7513	1.0209	
470654002	1.5156	0.0093	0.5	0.5645	0.4982	1.1622	4.644	3.4803	0.1279	1.135	0.0095	1.0643	0.8055	0.7549	0.9799	0.7446	0.9287	0.7488	1.0214	
470990002	1.1626	0.0092	0.5	0.3439	0.2602	0.9888	3.6265	3.0719	0.1568	0.9198	0.0094	1.0648	0.8525	0.7929	0.9875	0.7778	0.9112	0.7912	1.0234	
471050108	1.2662	0	0.5	0.5887	0.4343	0.9978	6.2115	3.1624	0.1104	0.9388	0	1.078	0.8321	0.7421	0.9911	0.7301	0.9694	0.7414	1	
471071002	1.3684	0.0026	0.5	0.6023	0.4333	1.0572	5.0318	3.2587	0.1156	1.0162	0.0026	1.0662	0.83	0.7442	0.985	0.7324	0.9364	0.7427	1.026	
471130006	1.1787	0.0063	0.5	0.595	0.45	1.0806	3.2802	3.1935	0.3061	0.9543	0.0065	1.0528	0.8359	0.8155	0.988	0.8018	0.9198	0.8096	1.0347	
471192007	1.2203	0.0118	0.5	0.537	0.4265	1.0672	3.8	3.1858	0.2589	0.9608	0.012	1.0738	0.8284	0.7939	0.9875	0.7795	0.916	0.7874	1.0144	
471251009	1.3368	0.0046	0.5	0.5912	0.4197	1.1758	3.6233	3.3639	0.3436	1.0606	0.0047	1.0963	0.8286	0.8052	0.9903	0.7908	0.9179	0.7934	1.0376	
471450004	1.2985	0.0027	0.5	0.6066	0.472	1.0177	5.0907	3.1673	0.143	0.9531	0.0028	1.0927	0.8318	0.7427	0.9872	0.7279	0.9715	0.734	1.031	
471570014	1.2354	0.0145	0.5	0.7741	0.7973	1.066	3.7518	3.0088	0.2422	1.0044	0.0147	1.0476	0.8329	0.8195	0.9791	0.8113	0.8933	0.813	1.0158	
471570047	1.1618	0.0106	0.5	0.6875	0.7462	1.0731	3.6365	3.202	0.2681	0.9538	0.0109	1.0546	0.8408	0.8225	0.9804	0.811	0.8854	0.821	1.0229	
471631007	1.5787	0.0128	0.5	0.6911	0.4473	1.2382	3.5522	3.5419	0.2008	1.2081	0.0129	1.038	0.8899	0.7787	0.991	0.7646	0.9767	0.7652	1.0127	
471650007	1.5077	0.0047	0.5	0.6944	0.4105	1.254	2.8635	3.6702	0.2709	1.1831	0.0049	1.0839	0.7967	0.7923	0.984	0.78	0.9149	0.7847	1.0368	

MATS 2.3.1 - Ouput File - Annual PM-2.5
2014 Business As Usual Scenario

Year																				
id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt	
500030004	0.556	0.0032	0.5	0.2289	0.186	0.5045	3.3905	1.5906	0.0935	0.4682	0.0033	1.0405	0.9194	0.8479	0.9962	0.8376	0.9785	0.8419	1.0264	
500070012	0.6521	0.0166	0.5	0.2566	0.3072	0.6873	3.2529	1.6341	0.5263	0.5528	0.0169	1.0236	0.961	0.874	0.9932	0.8431	0.9881	0.8477	1.0152	
500210002	0.5355	0.0092	0.5	0.2269	0.2169	0.521	6.3275	1.6278	0.1647	0.4487	0.0094	1.0328	0.9406	0.8443	0.9924	0.8314	0.9835	0.8378	1.0214	
510130020	1.3464	0.0054	0.5	0.7171	0.7468	1.1887	3.1398	3.171	0.4921	1.0135	0.0056	1.0772	0.8004	0.7793	0.986	0.7522	0.9777	0.7528	1.0362	
510360002	1.2687	0.0138	0.5	0.3456	0.3972	1.0554	3.1597	3.0536	0.2469	0.9548	0.014	1.0694	0.8492	0.7702	0.9867	0.7492	0.9752	0.7526	1.0117	
510410003	1.3691	0.0149	0.5	0.3764	0.4375	1.1466	3.448	3.2638	0.2959	1.0284	0.0151	1.0673	0.8375	0.7657	0.9838	0.7454	0.9806	0.7512	1.0149	
510590030	1.3198	0.0024	0.5	0.7234	0.7685	1.1615	2.5054	3.0914	0.492	0.9912	0.0025	1.0751	0.804	0.7765	0.986	0.7493	0.9824	0.7511	1.04	
510595001	1.2999	0.0199	0.5	0.6077	0.6181	1.1795	3.1127	3.2179	0.53	0.9754	0.0205	1.0732	0.8028	0.778	0.9856	0.7461	0.9827	0.7503	1.027	
510870014	1.329	0.0146	0.5	0.3591	0.419	1.1134	3.3948	3.1686	0.2857	0.9996	0.0148	1.0647	0.8403	0.7681	0.9851	0.7477	0.9827	0.7521	1.0136	
510870015	1.3205	0.0142	0.5	0.3632	0.4232	1.099	3.1515	3.1312	0.2805	0.9886	0.0144	1.0622	0.8361	0.7651	0.9853	0.7427	0.9922	0.7487	1.0163	
511071005	1.2376	0.0191	0.5	0.5388	0.5468	1.116	3.1719	3.0344	0.5213	0.922	0.0196	1.0842	0.8418	0.7742	0.9892	0.74	0.9952	0.745	1.0282	
511390004	1.3962	0.0112	0.5	0.2351	0.2416	1.2815	2.7711	2.9461	0.7237	1.0181	0.0114	1.1025	0.8703	0.7579	0.9915	0.7324	0.9227	0.7292	1.0225	
515200006	1.5452	0.0122	0.5	0.3309	0.593	1.2003	3.4014	3.3083	0.2612	1.159	0.0123	1.0549	0.89	0.7682	0.9917	0.7563	0.9726	0.7501	1.0135	
516500004	1.324	0.0242	0.5	0.4233	0.4617	1.1473	2.7809	3.2374	0.3042	1.0425	0.0244	1.0766	0.8714	0.8039	0.9885	0.786	1.0028	0.7874	1.0067	
516800015	1.3194	0.0022	0.5	0.4466	0.4713	1.0304	3.3673	3.0441	0.183	0.9824	0.0022	1.0702	0.8546	0.7571	0.986	0.7412	0.9875	0.7446	1.0183	
517100024	1.3814	0.0313	0.5	0.3986	0.4048	1.1807	3.7002	3.353	0.2784	1.0889	0.0315	1.0824	0.8701	0.8038	0.9888	0.7866	0.9989	0.7883	1.008	
517700014	1.3859	0.0125	0.5	0.4654	0.5067	1.1393	4.1784	3.4116	0.2573	1.0497	0.0127	1.0681	0.8558	0.7688	0.9857	0.7527	0.994	0.7574	1.0189	
518100008	1.3416	0.0333	0.5	0.3871	0.3954	1.1534	3.3003	3.2567	0.2846	1.0621	0.0335	1.0855	0.8705	0.808	0.9891	0.7901	1.0031	0.7917	1.0073	
540030003	1.3927	0.0146	0.5	0.4389	0.4373	1.2416	5.5214	3.1907	0.6468	1.0374	0.015	1.0966	0.8589	0.7791	0.9925	0.745	0.9921	0.7449	1.0336	
540090005	1.7353	0.0338	0.5	0.9767	0.7849	1.4711	4.1505	3.9041	0.4559	1.3532	0.0351	1.1514	0.871	0.8037	0.9998	0.7859	0.9711	0.7798	1.0371	
540090011	1.7126	0.0366	0.5	0.9706	0.7756	1.4522	3.7628	3.8577	0.452	1.337	0.0379	1.1513	0.8709	0.8022	0.9999	0.7858	0.9703	0.7807	1.0344	
540110006	1.4886	0.0147	0.5	0.5234	0.6108	1.2565	5.2776	3.725	0.3075	1.1475	0.015	1.0969	0.8859	0.7859	0.9938	0.7659	0.9919	0.7708	1.0164	
540291004	1.6158	0.0305	0.5	0.8662	0.6986	1.3559	3.72	3.6923	0.4197	1.2564	0.0316	1.1513	0.8718	0.7993	0.9997	0.7836	0.966	0.7776	1.0373	
540330003	1.5202	0.0085	0.5	0.511	0.4467	1.2083	3.9881	3.4808	0.2919	1.1473	0.0087	1.164	0.884	0.7708	1.0024	0.754	1.0092	0.7547	1.0251	
540390010	1.5673	0.0215	0.5	0.5883	0.6862	1.2186	4.0103	3.6706	0.2207	1.1674	0.022	1.1107	0.8756	0.7556	0.9935	0.7419	1.0385	0.7449	1.0262	
540391005	1.6523	0.0187	0.5	0.6306	0.7679	1.2556	4.9799	3.6377	0.2379	1.2269	0.0193	1.1098	0.8756	0.7587	0.9937	0.7431	1.0384	0.7425	1.0344	
540490006	1.5657	0.0058	0.5	0.5848	0.4671	1.2412	4.8012	3.503	0.333	1.1688	0.006	1.1893	0.8818	0.7667	1.0033	0.7478	0.9962	0.7465	1.0394	
540511002	1.6818	0.0166	0.5	0.4574	0.4844	1.3855	3.9323	3.9238	0.3501	1.306	0.0169	1.1966	0.8723	0.7938	1.005	0.7782	0.9784	0.7765	1.023	
540610003	1.5132	0.005	0.5	0.5782	0.4738	1.1469	4.0663	3.2486	0.3299	1.0679	0.0052	1.1983	0.8679	0.7287	1.0015	0.707	1.0055	0.7057	1.0483	
540690010	1.6675	0.0214	0.5	0.658	0.5776	1.3824	3.1816	3.8543	0.3937	1.2905	0.022	1.168	0.8686	0.7935	1.001	0.7758	0.9765	0.7739	1.0312	
540810002	1.34	0.0133	0.5	0.465	0.5258	1.0768	3.0202	3.369	0.1645	1.0173	0.0136	1.0938	0.8704	0.7695	0.9928	0.756	0.989	0.7592	1.0177	
541071002	1.4207	0.0029	0.5	0.5121	0.42	1.2047	5.1138	3.5779	0.3564	1.0849	0.003	1.1316	0.8783	0.7837	0.9973	0.7608	0.9791	0.7637	1.0377	
550030010	0.4591	0.0062	0.5	0.3169	0.1824	0.5911	1.9488	1.3477	0.6295	0.411	0.0063	1.0472	0.9065	0.9088	0.9924	0.8916	0.9415	0.8953	1.0157	
550090005	0.7137	0.0123	0.5	0.2334	0.2212	0.943	5.6196	1.9732	1.1049	0.6362	0.0125	1.0546	0.8794	0.8931	0.992	0.8897	0.8937	0.8914	1.0164	
550250047	1.0053	0.0333	0.5	0.5933	0.3471	1.2638	4.1036	2.3312	1.5919	0.8606	0.034	1.0562	0.8323	0.8714	0.9868	0.8569	0.8979	0.856	1.0191	
550270007	0.9393	0.0172	0.5	0.2533	0.2343	1.2408	3.4209	2.2159	1.5556	0.8158	0.0176	1.0593	0.849	0.8813	0.9908	0.8697	0.8975	0.8686	1.0202	
550410007	0.5592	0.0054	0.5	0.2536	0.1917	0.7209	2.1861	1.5717	0.7978	0.4983	0.0055	1.0549	0.928	0.9012	0.991	0.8896	0.923	0.891	1.0228	
550430009	1.0408	0.0427	0.5	0.5484	0.3174	1.2722	3.7944	2.4141	1.5186	0.8856	0.0434	1.0552	0.8345	0.8637	0.9851	0.8551	0.8856	0.8508	1.0173	
550590019	1.1536	0.0127	0.5	0.3692	0.3372	1.4497	3.2464	2.9712	1.7362	1.0009	0.013	1.0892	0.8159	0.8807	0.9894	0.8612	0.9154	0.8676	1.0248	
550630012	0.7352	0	0.5	0.4201	0.2551	0.8922	5.7697	1.7241	1.0762	0.6295	0	1.0467	0.8395	0.8706	0.9787	0.8584	0.8982	0.8563	1	
550710007	0.7093	0.011	0.5	0.2273	0.2302	0.9501	4.4045	1.987	1.1405	0.6262	0.0112	1.0704	0.8666	0.8878	0.9942	0.8811	0.9064	0.8829	1.019	
550790010	1.08	0.0334	0.5	0.5602	0.4523	1.4044	4.2457	2.6144	1.6928	0.9425	0.0341	1.0944	0.846	0.8855	0.9918	0.8711	0.9126	0.8727	1.0186	
550790026	1.1163	0.0339	0.5	0.5348	0.4671	1.4491	4.099	2.693	1.7437	0.9691	0.0345	1.0897	0.8441	0.8848	0.9912	0.8718	0.9102	0.8682	1.0188	
550790043	1.0894	0.035	0.5	0.5396	0.4578	1.407	4.7898	2.62	1.692	0.9437	0.0356	1.095	0.846	0.884	0.9916	0.8698	0.9122	0.8663	1.0184	
550790059	1.1498	0.0372	0.5	0.6983	0.488	1.4696	4.7912	2.761	1.7824	0.9988	0.038	1.0954	0.8456	0.8859	0.9917	0.8701	0.9131	0.8687	1.0208	
550790099	1.1102	0.0347	0.5	0.5441	0.4592	1.4286	4.6827	2.6744	1.6985	0.9634	0.0353	1.0904	0.8437	0.8843	0.9911	0.87	0.9106	0.8677	1.0182	
550870009	0.7575	0.012	0.5	0.2419	0.2385	0.9829	4.9167	1.9955	1.1663	0.6687	0.0122	1.0415	0.9146	0.8898	0.9944	0.8877	0.8914	0.8828	1.0159	
550890009	1.0415	0.0301	0.5	0.5852	0.397	1.3434	3.0291	2.5158	1.6706	0.9062	0.0307	1.0763	0.8491	0.8824	0.9919	0.8693	0.9115	0.8701	1.0207	
551091002	0.7436	0.024	0.5	0.4976	0.3817	0.9694	3.516	1.8276	1.2581	0.6512	0.0243	1.0324	0.835	0.8901	0.9831	0.8787	0.9075	0.8756	1.0148	
551110007	0.9572	0.0274	0.5	0.5187	0.325	1.218	2.403	2.273	1.5332	0.8256	0.0279	1.0588	0.8524	0.8778	0.9891	0.8678	0.8952	0.8625	1.0193	
551198001	0.6455	0.0067	0.5	0.3513	0.2064	0.8294	3.2165	1.7928	0.9594	0.5713	0.0068	1.0464	0.8971	0.8933	0.99	0.8828	0.909	0.885	1.017	
551250001	0.5091	0.0034	0.5	0.2985	0.1818	0.6424	2.2891	1.5003	0.6394	0.458	0.0035	1.0456	0.9331	0.9053	0.9878	0.893	0.9294	0.8996	1.0236	
551330027	0.9917	0.0531	0.5	1.209	0.5071	1.2507	4.6839	2.3627	1.6123	0.8634	0.0541	1.0849	0.8414	0.8859	0.9899	0.8716	0.9105	0.8707	1.0203	

ALPINE GEOPHYSICS

ENVIRON

Table B-2. MATS 2.3.1 Output Files; 2018 Annual PM2.5 Business As Usual Runs

MATS 2.3.1 - Ouput File - Annual PM-2.5
2018 Business As Usual Scenario

Year																
_id	_type	_STATE_NAME	_COUNTY_NAME	monitor_lat	monitor_long	monitor_gridcell	b_pm25_ann_DV	f_pm25_ann_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
10331002	FRM	Alabama	Colbert	34.760556	-87.650556	81002	12.21	10.53	0.5	0.4155	0.3731	1.2555	4.2836	4.0306	0.1708
10890014	FRM	Alabama	Madison	34.68767	-86.58637	89002	12.92	10.81	0.5	0.426	0.4374	1.5757	3.803	4.3856	0.2669
11030011	FRM	Alabama	Morgan	34.518735	-86.976939	88001	12.7	10.77	0.5	0.3407	0.3701	1.3654	4.3103	4.3552	0.1729
50350005	FRM	Arkansas	Crittenden	35.197288	-90.193141	62004	12.43	10.83	0.5	0.7437	0.9614	1.2988	3.7265	3.6838	0.2874
50450002	FRM	Arkansas	Faulkner	35.105193	-92.427859	45002	11.69	10.6	0.5	0.7474	0.5412	1.009	4.7784	2.9084	0.2687
50670001	FRM	Arkansas	Jackson	35.638169	-91.189506	54008	11.42	10.02	0.5	0.7202	0.6497	1.2721	3.1649	3.5512	0.3659
51150003	FRM	Arkansas	Pope	35.259775	-93.10005	40003	12.11	11.07	0.5	0.6791	0.4036	0.9843	5.5348	2.8666	0.2175
51190007	FRM	Arkansas	Pulaski	34.756189	-92.281296	47001	12.18	10.99	0.5	0.8831	0.6519	1.0386	4.8272	3.0637	0.2553
51310008	FRM	Arkansas	Sebastian	35.389672	-94.424288	30004	11.47	10.57	0.5	0.6297	0.3304	0.9596	5.1753	2.7071	0.2661
51450001	FRM	Arkansas	White	35.24894	-91.715596	50004	11.19	10.14	0.5	0.4968	0.3514	0.9326	5.1609	2.5997	0.279
90010010	FRM	Connecticut	Fairfield	41.170833	-73.194722	174079	12.35	11.24	0.5	0.4262	0.8165	1.293	4.172	3.4257	0.5449
90011123	FRM	Connecticut	Fairfield	41.399167	-73.443056	172080	11.99	10.87	0.5	0.4029	0.6866	1.2204	4.3085	3.2906	0.4602
90013005	FRM	Connecticut	Fairfield	41.1125	-73.407222	173078	11.8	10.69	0.5	0.4766	0.8965	1.3564	3.2573	3.4776	0.6245
90019003	FRM	Connecticut	Fairfield	41.118333	-73.336667	173078	10.61	9.57	0.5	0.4335	0.8256	1.2472	2.667	3.2637	0.5309
90031003	FRM	Connecticut	Hartford	41.784722	-72.631667	176085	10.08	9.16	0.5	0.3013	0.4587	0.93	4.0141	2.7431	0.2931
90050005	FRM	Connecticut	Litchfield	41.821389	-73.297222	172084	7.33	6.58	0.5	0.3024	0.2917	0.8153	2.0253	2.4917	0.0924
90090026	FRM	Connecticut	New Haven	41.291111	-72.894167	176080	11.61	10.56	0.5	0.4088	0.8546	1.3102	3.3284	3.5498	0.4776
90090027	FRM	Connecticut	New Haven	41.301111	-72.902778	175080	11.65	10.58	0.5	0.3936	0.8216	1.2649	3.6304	3.4746	0.418
90091123	FRM	Connecticut	New Haven	41.310833	-72.916944	175081	12.24	11.08	0.5	0.4229	0.8362	1.3181	3.8939	3.4585	0.6487
90092008	FRM	Connecticut	New Haven	41.331389	-72.919722	175081	10.72	9.62	0.5	0.4076	0.8203	1.2819	2.574	3.4294	0.5598
90092123	FRM	Connecticut	New Haven	41.550556	-73.043611	174082	11.86	10.79	0.5	0.3734	0.644	1.1455	4.6199	3.1097	0.4362
90113002	FRM	Connecticut	New London	41.524167	-72.076667	180084	10.11	9.19	0.5	0.3186	0.5179	0.9965	3.6535	2.8451	0.3548
100010002	FRM	Delaware	Kent	38.984722	-75.555556	163055	11.77	10.14	0.5	0.3146	0.4045	1.5082	3.0945	3.9269	0.696
100010003	FRM	Delaware	Kent	39.155	-75.518056	163057	11.71	10.22	0.5	0.2921	0.3719	1.5144	3.0754	3.9375	0.6956
100031003	FRM	Delaware	New Castle	39.761111	-75.491944	161062	12.91	11.31	0.5	0.7721	0.6821	1.7177	2.6698	4.1471	0.9435
100031007	FRM	Delaware	New Castle	39.551111	-75.730833	160060	11.79	10.13	0.5	0.5503	0.5428	1.6437	2.3517	3.8903	0.9224
100031012	FRM	Delaware	New Castle	39.691944	-75.761667	160061	12.87	11.11	0.5	0.539	0.561	1.8121	2.7262	4.1143	1.1453
100032004	FRM	Delaware	New Castle	39.739444	-75.558056	161062	14.17	12.48	0.5	0.8705	0.735	1.8327	3.3272	4.3284	1.0236
100051002	FRM	Delaware	Sussex	38.644444	-75.613056	163052	12.72	10.96	0.5	0.3948	0.5133	1.521	3.7113	4.1011	0.6277
110010041	FRM	District Of Columbia	District of Columbia	38.897222	-76.952778	153052	13.01	10.85	0.5	0.5426	0.7355	1.5573	3.4205	4.3358	0.5564
110010042	FRM	District Of Columbia	District of Columbia	38.880833	-77.0325	153052	13.1	10.95	0.5	0.7041	0.993	1.4973	3.4503	4.1642	0.4789
110010043	FRM	District Of Columbia	District of Columbia	38.921847	-77.013178	153052	12.53	10.39	0.5	0.4547	0.5974	1.611	2.9458	4.3893	0.6153
131390003	FRM	Georgia	Hall	34.300342	-83.8139	111001	13.03	10.81	0.5	0.4709	0.5519	1.2884	4.8349	4.0195	0.1276
170190004	FRM	Illinois	Champaign	40.123796	-88.229531	72051	11.73	10.19	0.5	0.5214	0.4429	1.5275	3.0259	3.3402	1.1959
170191001	FRM	Illinois	Champaign	40.052242	-88.372549	71050	11.74	10.21	0.5	0.5265	0.436	1.5311	3.0257	3.3541	1.1913
170310022	FRM	Illinois	Cook	41.687165	-87.539315	76065	13.83	12.54	0.5	0.6363	0.8304	1.577	4.3228	3.2741	1.4491
170310050	FRM	Illinois	Cook	41.70757	-87.568574	75066	13.09	11.73	0.5	0.5807	0.7676	1.453	4.3055	3.0535	1.2786
170310052	FRM	Illinois	Cook	41.965485	-87.749928	74068	14.05	12.59	0.5	0.5798	0.6794	1.4062	5.3562	2.8785	1.5599
170310057	FRM	Illinois	Cook	41.912862	-87.722723	74067	13.57	12.03	0.5	0.6173	0.7201	1.463	4.489	3.0058	1.6364
170310076	FRM	Illinois	Cook	41.7514	-87.713488	74066	13.22	11.8	0.5	0.4593	0.6336	1.3299	5.3958	2.8699	0.9771
170312001	FRM	Illinois	Cook	41.662109	-87.696467	74065	13.33	11.88	0.5	0.4868	0.6453	1.4101	5.0736	2.9684	1.1503
170313301	FRM	Illinois	Cook	41.782766	-87.805377	74066	13.52	12.07	0.5	0.4798	0.6413	1.3525	5.4894	2.8809	1.1199
170314007	FRM	Illinois	Cook	42.060285	-87.863225	73069	11.81	10.48	0.5	0.4626	0.58	1.4963	3.0453	2.9889	1.6355
170314201	FRM	Illinois	Cook	42.139996	-87.799227	73069	11.71	10.4	0.5	0.4368	0.5594	1.4941	3.0579	3.0042	1.5709
170434002	FRM	Illinois	DuPage	41.771071	-88.152534	71066	12.57	11.19	0.5	0.396	0.52	1.4987	4.0888	2.8948	1.6129
170650002	FRM	Illinois	Hamilton	38.082155	-88.624943	71032	12.34	10.61	0.5	0.5133	0.4611	1.6107	3.0048	4.009	0.874
170831001	FRM	Illinois	Jersey	39.110539	-90.32408	58040	11.62	10.12	0.5	0.5154	0.4349	1.5361	2.8052	3.495	1.1304
170890003	FRM	Illinois	Kane	42.050403	-88.280015	70068	11.92	10.54	0.5	0.4537	0.5404	1.4599	3.3929	2.8911	1.6072
170890007	FRM	Illinois	Kane	41.784717	-88.329374	70066	12.49	11.16	0.5	0.382	0.4894	1.423	4.3927	2.7431	1.5555
170971007	FRM	Illinois	Lake	42.467573	-87.810047	73072	10.62	9.45	0.5	0.2955	0.3564	1.3858	2.6039	2.9509	1.5458
171110001	FRM	Illinois	McHenry	42.221442	-88.242207	70070	11.15	9.9	0.5	0.4133	0.4707	1.4279	2.8977	2.8133	1.6092
171132003	FRM	Illinois	McLean	40.518735	-88.996896	67054	11.49	10.08	0.5	0.5044	0.4214	1.504	2.9337	3.1678	1.3248
171150013	FRM	Illinois	Macon	39.866834	-88.925594	68048	12.72	11.13	0.5	0.5653	0.4143	1.6951	3.207	3.5766	1.4752
171191007	FRM	Illinois	Madison	38.704534	-90.139675	60036	15.71	14	0.5	0.5192	0.448	1.5221	6.8277	3.5988	1.0619
171192009	FRM	Illinois	Madison	38.903085	-90.143168	60038	13.47	11.82	0.5	0.55	0.4693	1.6942	3.8696	3.8309	1.2327
171193007	FRM	Illinois	Madison	38.860669	-90.105851	60038	13.17	11.57	0.5	0.5148	0.4419	1.5856	4.1034	3.6245	1.1356
171430037	FRM	Illinois	Peoria	40.697007	-89.584737	62055	12.09	10.81	0.5	0.4799	0.3874	1.4521	3.8128	3.0271	1.3201

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_id	_type	_STATE_NAME	_COUNTY_NAME	monitor_lat	monitor_long	monitor_gridcell	b_pm25_ann_DV	f_pm25_ann_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
171570001	FRM	Illinois	Randolph	38.176278	-89.788459	63032	12.01	10.51	0.5	0.5349	0.3995	1.39	3.648	3.5546	0.8219
171613002	FRM	Illinois	Rock Island	41.514727	-90.51735	55062	11.16	9.86	0.5	0.4908	0.3532	1.4488	2.8656	2.9017	1.4475
171630010	FRM	Illinois	Saint Clair	38.612034	-90.160477	60036	14.21	12.63	0.5	0.5152	0.4441	1.3824	5.9269	3.3988	0.9354
171634001	FRM	Illinois	Saint Clair	38.529631	-89.99285	61035	13.09	11.54	0.5	0.5107	0.4326	1.3768	4.809	3.423	0.9082
171670012	FRM	Illinois	Sangamon	39.831921	-89.644164	62047	11.88	10.38	0.5	0.5112	0.3904	1.5284	3.2147	3.2841	1.2694
171971002	FRM	Illinois	Will	41.526885	-88.116474	72064	12.8	11.38	0.5	0.4727	0.5982	1.5458	3.9305	3.1236	1.4709
171971011	FRM	Illinois	Will	41.221537	-88.190967	71061	10.73	9.41	0.5	0.5263	0.6767	1.4181	2.2825	2.9856	1.2224
172010013	FRM	Illinois	Winnebago	42.263081	-89.092767	64070	11.82	10.65	0.5	0.4224	0.3937	1.27	4.3875	2.4456	1.4843
180030004	FRM	Indiana	Allen	41.094722	-85.101944	93062	12.32	10.94	0.5	0.4314	0.4199	1.47	3.8183	2.9861	1.5835
180190006	FRM	Indiana	Clark	38.277675	-85.740153	92036	15.27	13.13	0.5	0.5634	0.6538	1.8367	4.6545	4.6641	0.8002
180350006	FRM	Indiana	Delaware	40.201141	-85.387999	92054	12.25	10.72	0.5	0.3579	0.3551	1.6201	3.2587	3.7591	1.0896
180370005	FRM	Indiana	Dubois	38.404778	-86.928322	83036	13.71	11.69	0.5	0.3885	0.4539	2.1594	2.2135	5.0626	1.1615
180431004	FRM	Indiana	Floyd	38.308056	-85.834167	91036	13.57	11.55	0.5	0.5662	0.6395	1.7786	3.2542	4.5515	0.6824
180670003	FRM	Indiana	Howard	40.485479	-86.132879	86056	12.44	10.92	0.5	0.4299	0.5192	1.6289	3.1661	3.6175	1.2867
180830004	FRM	Indiana	Knox	38.740882	-87.484733	79038	12.85	11.13	0.5	0.4198	0.4457	1.7967	2.9282	4.2825	0.9862
180890006	FRM	Indiana	Lake	41.636127	-87.440843	76065	13.19	11.86	0.5	0.6965	0.891	1.6598	3.1646	3.3955	1.5859
180890027	FRM	Indiana	Lake	41.546593	-87.426481	76064	12.38	11.09	0.5	0.6648	0.8418	1.5981	2.7325	3.291	1.5101
180890031	FRM	Indiana	Lake	41.598505	-87.342991	77065	13.33	12.03	0.5	0.8609	1.3501	1.5292	3.2353	3.2727	1.2705
180892004	FRM	Indiana	Lake	41.585496	-87.474486	76065	12.71	11.47	0.5	0.6232	0.7024	1.625	3.1342	3.3215	1.5739
180892010	FRM	Indiana	Lake	41.678349	-87.508345	76065	12.93	11.63	0.5	0.6745	0.8716	1.6143	3.1585	3.3735	1.4579
180910011	FRM	Indiana	LaPorte	41.707212	-86.891216	80066	11.52	10.29	0.5	0.6316	0.9351	1.3726	2.7505	2.9418	1.2521
180950009	FRM	Indiana	Madison	40.111975	-85.679952	90052	12.58	11	0.5	0.3583	0.3581	1.6627	3.3856	3.8446	1.1334
180970078	FRM	Indiana	Marion	39.811097	-86.114469	87049	14.31	12.49	0.5	0.4559	0.6272	1.8936	3.6257	4.4364	1.2144
180970081	FRM	Indiana	Marion	39.788903	-86.214628	87049	14.68	12.91	0.5	0.4442	0.6179	1.8449	4.2647	4.3066	1.2054
180970083	FRM	Indiana	Marion	39.774979	-86.12202	87049	14.41	12.64	0.5	0.439	0.6058	1.8286	4.0759	4.29	1.1726
181270024	FRM	Indiana	Porter	41.6175	-87.199167	78065	12.16	10.87	0.5	0.8112	1.2858	1.4158	2.6825	3.1013	1.1168
181410014	FRM	Indiana	St. Joseph	41.66346	-86.207826	85066	12.02	10.87	0.5	0.3841	0.4771	1.286	4.4149	2.505	1.5135
181470009	FRM	Indiana	Spencer	38.167523	-86.983214	83034	12.97	10.99	0.5	0.3808	0.4414	1.9418	2.3791	4.7688	0.9002
181570008	FRM	Indiana	Tippecanoe	40.431639	-86.8525	82054	12.2	10.63	0.5	0.515	0.6515	1.6146	2.7836	3.5661	1.2753
181630006	FRM	Indiana	Vanderburgh	37.971727	-87.567236	79031	13.4	11.79	0.5	0.4005	0.4459	1.5757	4.3932	3.9325	0.8049
181630012	FRM	Indiana	Vanderburgh	38.021667	-87.569444	79032	13.66	12.03	0.5	0.4079	0.4573	1.5932	4.5495	3.9725	0.8257
181630016	FRM	Indiana	Vanderburgh	37.974436	-87.532289	79031	13.62	12.02	0.5	0.397	0.4416	1.5676	4.6571	3.9276	0.7904
181670018	FRM	Indiana	Vigo	39.486111	-87.401389	79045	13.16	11.36	0.5	0.4696	0.4764	1.7586	3.3237	4.0816	1.1175
181670023	FRM	Indiana	Vigo	39.456238	-87.370553	79045	12.61	10.82	0.5	0.4709	0.4783	1.7698	2.727	4.117	1.1088
190130008	FRM	Iowa	Black Hawk	42.493056	-92.343889	42070	10.92	9.61	0.5	0.4667	0.3152	1.3234	3.2784	2.5024	1.5786
190450021	FRM	Iowa	Clinton	41.874999	-90.177574	57066	11.67	10.36	0.5	0.4769	0.3506	1.4031	3.6112	2.7874	1.4511
191032001	FRM	Iowa	Johnson	41.657232	-91.503478	48063	11.28	10.04	0.5	0.4305	0.2877	1.3426	3.6178	2.5368	1.5862
191130037	FRM	Iowa	Linn	42.008333	-91.678611	47066	10.38	9.12	0.5	0.4325	0.285	1.3891	2.4803	2.6199	1.6746
191370002	FRM	Iowa	Montgomery	40.969112	-95.044951	24056	9.54	8.51	0.5	0.6408	0.3497	1.0794	2.8489	2.2028	1.1302
191390015	FRM	Iowa	Muscatine	41.400948	-91.067814	52061	12.86	11.49	0.5	0.5015	0.3529	1.5113	4.2522	2.9686	1.6046
191471002	FRM	Iowa	Palo Alto	43.123704	-94.693518	26076	9.02	7.99	0.5	0.5319	0.3067	1.0025	2.8812	1.8966	1.1939
191530030	FRM	Iowa	Polk	41.603183	-93.6433	34062	10.03	8.86	0.5	0.5375	0.3328	1.2088	2.8484	2.324	1.3753
191532510	FRM	Iowa	Polk	41.603517	-93.7479	33062	9.74	8.58	0.5	0.5431	0.3373	1.205	2.5508	2.3421	1.3496
191550009	FRM	Iowa	Pottawattamie	41.264171	-95.896124	18058	10.79	10.4	0.5	0.8008	0.4682	1.1413	3.5085	2.311	1.225
191630015	FRM	Iowa	Scott	41.530011	-90.587611	55062	11.62	10.27	0.5	0.5027	0.3646	1.5238	2.958	3.0406	1.5357
191630018	FRM	Iowa	Scott	41.550005	-90.600115	55062	11.34	10	0.5	0.4989	0.3645	1.5134	2.7308	2.9991	1.5475
191630019	FRM	Iowa	Scott	41.517772	-90.618755	55062	13.85	12.45	0.5	0.4854	0.3575	1.4954	5.3404	2.9304	1.5688
191770006	FRM	Iowa	Van Buren	40.695078	-92.006318	45054	10.03	8.98	0.5	0.4427	0.2658	1.0622	3.776	2.013	1.2356
191930017	FRM	Iowa	Woodbury	42.517968	-96.387903	15070	10.27	9.39	0.5	0.6448	0.2906	0.9475	4.3052	1.8624	1.0396
191970004	FRM	Iowa	Wright	42.695391	-93.655976	33072	9.79	8.65	0.5	0.4922	0.3179	1.1266	3.0553	2.1295	1.3532
200910007	FRM	Kansas	Johnson	38.974444	-94.686944	27037	9.69	8.63	0.5	0.5847	0.5002	1.0095	3.1253	2.3367	0.8354
200910010	FRM	Kansas	Johnson	38.83859	-94.74643	27036	9.01	8.01	0.5	0.5488	0.4375	0.9588	2.7981	2.2358	0.7643
201070002	FRM	Kansas	Linn	38.135833	-94.731944	27030	10.12	9.08	0.5	0.8301	0.4102	1.0813	3.0651	2.6272	0.7149
201730008	FRM	Kansas	Sedgwick	37.659722	-97.297222	8025	9.45	8.55	0.5	0.5238	0.2899	0.9951	3.253	2.3749	0.6435
201730009	FRM	Kansas	Sedgwick	37.651111	-97.362222	8025	9.32	8.43	0.5	0.5221	0.2883	0.9814	3.1912	2.3517	0.6214
201730010	FRM	Kansas	Sedgwick	37.701111	-97.313889	8025	9.5	8.6	0.5	0.5172	0.2888	0.9831	3.366	2.3386	0.6392
201910002	FRM	Kansas	Sumner	37.476944	-97.366389	8023	9.03	8.18	0.5	0.6183	0.2911	0.958	2.9267	2.3037	0.6005

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_id	_type	_STATE_NAME	_COUNTY_NAME	monitor_lat	monitor_long	monitor_gridcell	b_pm25_ann_DV	f_pm25_ann_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
202090021	FRM	Kansas	Wyandotte	39.1175	-94.635556	27039	11.21	10.08	0.5	0.6419	0.5782	1.0682	4.2238	2.4659	0.8929
202090022	FRM	Kansas	Wyandotte	39.045833	-94.694444	27038	10	8.92	0.5	0.6118	0.5391	1.0263	3.2876	2.391	0.8355
210130002	FRM	Kentucky	Bell	36.608056	-83.736944	108022	13.83	11.53	0.5	0.5299	0.7262	1.4378	4.6231	4.4455	0.184
210190017	FRM	Kentucky	Boyd	38.459167	-82.640556	114040	13.38	11.16	0.5	0.417	0.6267	1.6132	3.5508	4.8591	0.2971
210290006	FRM	Kentucky	Bullitt	37.985556	-85.713056	92033	14.05	11.89	0.5	0.5652	0.6443	1.8376	3.4377	4.7052	0.7264
210430500	FRM	Kentucky	Carter	38.238333	-82.988333	112038	11.51	9.48	0.5	0.4113	0.5961	1.3708	2.9116	4.2002	0.2312
210470006	FRM	Kentucky	Christian	36.911667	-87.323611	82022	12.83	10.99	0.5	0.5374	0.5141	1.645	3.0875	4.5379	0.5147
210590005	FRM	Kentucky	Daviess	37.780833	-87.075556	83030	13.08	11.04	0.5	0.3202	0.4026	1.9084	2.5356	5.0188	0.7251
210670012	FRM	Kentucky	Fayette	38.065	-84.5	101035	13.39	11.08	0.5	0.394	0.5098	1.8604	3.0685	4.6007	0.8492
210670014	FRM	Kentucky	Fayette	38.038889	-84.5075	101035	13.35	11.13	0.5	0.3822	0.4926	1.7791	3.4587	4.4063	0.8008
210730006	FRM	Kentucky	Franklin	38.219361	-84.8385	98036	12.48	10.31	0.5	0.4053	0.5219	1.7679	2.5173	4.4561	0.7598
210930006	FRM	Kentucky	Hardin	37.706389	-85.851667	92030	13.28	11.03	0.5	0.5314	0.5836	1.8198	2.8051	4.7426	0.6563
211010014	FRM	Kentucky	Henderson	37.871389	-87.463333	80031	13.17	11.4	0.5	0.421	0.4505	1.7008	3.5195	4.2941	0.8148
211110043	FRM	Kentucky	Jefferson	38.23319	-85.81566	91035	14.35	12.28	0.5	0.5871	0.6504	1.7812	4.0254	4.5658	0.6306
211110044	FRM	Kentucky	Jefferson	38.19113	-85.77935	92035	14.47	12.31	0.5	0.5852	0.6563	1.8284	3.8863	4.6752	0.7194
211110048	FRM	Kentucky	Jefferson	38.24024	-85.73195	92035	14.08	11.92	0.5	0.5554	0.6573	1.8651	3.3264	4.716	0.8651
211110051	FRM	Kentucky	Jefferson	38.06091	-85.89804	91034	13.93	11.79	0.5	0.5781	0.649	1.8849	3.0985	4.8063	0.749
211170007	FRM	Kentucky	Kenton	39.0725	-84.525	99044	13.09	11.14	0.5	0.4005	0.6525	1.7543	2.9168	4.5211	0.8425
211451004	FRM	Kentucky	McCracken	37.065556	-88.637778	72022	13.1	11.27	0.5	0.436	0.5143	1.6275	3.5724	4.3549	0.6239
211510003	FRM	Kentucky	Madison	37.738056	-84.285556	103032	12.03	9.91	0.5	0.3848	0.5345	1.5922	2.7869	4.1933	0.6006
211830032	FRM	Kentucky	Ohio	37.319725	-86.956097	84026	13.04	11.2	0.5	0.4472	0.4691	1.799	2.855	4.6986	0.6858
211950002	FRM	Kentucky	Pike	37.482778	-82.535278	116032	12.67	10.41	0.5	0.4744	0.7893	1.4689	3.335	4.4507	0.1946
230010011	FRM	Maine	Androscoggin	44.089406	-70.214219	186110	8.75	8.29	0.5	0.2034	0.2875	0.4784	5.1447	1.6308	0.0572
230050015	FRM	Maine	Cumberland	43.667954	-70.255601	187106	9.89	9.37	0.5	0.2131	0.3354	0.5071	6.0151	1.7699	0.0742
230090103	FRM	Maine	Hancock	44.37705	-68.2609	197117	5.1	4.85	0.5	0.1676	0.1783	0.4449	1.8545	1.4879	0.0337
230110016	FRM	Maine	Kennebec	44.312319	-69.786717	188113	8.72	8.21	0.5	0.2095	0.2873	0.4804	5.1232	1.6162	0.0604
230172011	FRM	Maine	Oxford	44.551419	-70.546319	183114	9.39	8.84	0.5	0.2071	0.2452	0.472	5.8528	1.6296	0.0528
230190002	FRM	Maine	Penobscot	44.798796	-68.769107	193119	8.32	7.78	0.5	0.3589	0.45	0.589	3.8604	1.9207	0.0761
240031003	FRM	Maryland	Anne Arundel	39.169533	-76.627933	155055	13.25	11.57	0.5	0.4814	0.6536	1.4389	4.3002	4.0275	0.6276
240051007	FRM	Maryland	Baltimore	39.460833	-76.631111	154058	12.6	10.66	0.5	0.4815	0.7064	1.6508	2.8471	4.2128	0.7644
240053001	FRM	Maryland	Baltimore	39.310833	-76.474444	156057	13.64	11.81	0.5	0.4482	0.7021	1.6846	3.8096	4.3226	0.6582
240150003	FRM	Maryland	Cecil	39.701111	-75.86	159061	12.05	10.24	0.5	0.4528	0.5095	1.7642	2.2658	4.0085	1.1109
240251001	FRM	Maryland	Harford	39.41	-76.296667	157058	11.66	9.86	0.5	0.4196	0.5908	1.5893	2.4896	3.9995	0.6657
240313001	FRM	Maryland	Montgomery	39.114444	-77.106944	152054	11.29	9.4	0.5	0.4969	0.6466	1.3698	2.557	4.0641	0.4974
240330030	FRM	Maryland	Prince George's	39.055277	-76.878333	153054	11.59	9.76	0.5	0.4507	0.5148	1.2376	3.1996	4.179	0.3938
240338003	FRM	Maryland	Prince George's	38.81194	-76.74417	155052	11.92	9.94	0.5	0.5222	0.6961	1.4627	2.6739	4.2491	0.5643
240430009	FRM	Maryland	Washington	39.565556	-77.721944	146057	12.19	10.21	0.5	0.372	0.4866	1.4936	3.3646	4.0326	0.6365
245100006	FRM	Maryland	Baltimore (City)	39.340556	-76.582222	155057	12.8	11.03	0.5	0.4673	0.7033	1.6006	3.3135	4.1486	0.6402
245100007	FRM	Maryland	Baltimore (City)	39.344444	-76.685278	154057	12.87	11.04	0.5	0.5031	0.7233	1.5079	3.6583	4.0472	0.5837
245100008	FRM	Maryland	Baltimore (City)	39.28768	-76.547616	155056	14.04	12.27	0.5	0.4486	0.6748	1.5896	4.6862	4.1048	0.6155
250035001	FRM	Massachusetts	Berkshire	42.447381	-73.258025	170090	9.7	8.95	0.5	0.2656	0.3072	0.7863	4.5045	2.4426	0.1598
250051004	FRM	Massachusetts	Bristol	41.683279	-71.169171	186087	8.77	7.94	0.5	0.3069	0.4494	0.8944	2.7345	2.7391	0.262
250092006	FRM	Massachusetts	Essex	42.474671	-70.971358	185095	8.82	8.09	0.5	0.3433	0.5636	0.9649	2.5032	2.6806	0.3277
250095005	FRM	Massachusetts	Essex	42.77077	-71.102259	184097	8.65	7.95	0.5	0.3018	0.5037	0.8123	2.9508	2.5504	0.2737
250096001	FRM	Massachusetts	Essex	42.698245	-71.164951	183096	9.13	8.4	0.5	0.3118	0.5216	0.8467	3.2952	2.5887	0.2849
250130008	FRM	Massachusetts	Hampden	42.19438	-72.555112	176089	9.3	8.45	0.5	0.2333	0.3931	0.9132	3.3793	2.7782	0.2906
250130016	FRM	Massachusetts	Hampden	42.108581	-72.590614	176088	11.43	10.49	0.5	0.2502	0.3979	0.9108	5.5207	2.7717	0.2748
250132009	FRM	Massachusetts	Hampden	42.105439	-72.59717	176088	11.11	10.18	0.5	0.2426	0.3868	0.8957	5.2828	2.7283	0.2727
250170009	FRM	Massachusetts	Middlesex	42.62668	-71.362068	182095	8.65	7.91	0.5	0.3109	0.5217	0.8545	2.8109	2.5693	0.2972
250230004	FRM	Massachusetts	Plymouth	42.082028	-71.0148	186091	9.33	8.44	0.5	0.3337	0.5222	0.9567	3.0124	2.7397	0.2949
250250002	FRM	Massachusetts	Suffolk	42.348873	-71.097163	185093	11.12	10.27	0.5	0.3439	0.5819	0.9802	4.7894	2.6356	0.3415
250250027	FRM	Massachusetts	Suffolk	42.371933	-71.062031	185093	11.14	10.25	0.5	0.3635	0.6063	1.0265	4.5134	2.7697	0.3553
250250042	FRM	Massachusetts	Suffolk	42.3294	-71.0825	185093	9.99	9.18	0.5	0.3487	0.586	0.9951	3.5759	2.6701	0.3477
250250043	FRM	Massachusetts	Suffolk	42.3631	-71.0542	185093	11.42	10.56	0.5	0.3315	0.5551	0.9467	5.2922	2.5502	0.3258
250270016	FRM	Massachusetts	Worcester	42.258571	-71.799067	180091	10.2	9.25	0.5	0.3169	0.4669	0.9264	4.0686	2.7947	0.2603
250270023	FRM	Massachusetts	Worcester	42.263877	-71.794186	180091	10.67	9.72	0.5	0.309	0.4487	0.8971	4.7261	2.7054	0.2502
260050003	FRM	Michigan	Allegan	42.767786	-86.148577	84076	10.94	9.69	0.5	0.2386	0.3157	1.4576	2.8045	3.2342	1.2702

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_id	_type	_STATE_NAME	_COUNTY_NAME	monitor_lat	monitor_long	monitor_gridcell	b_pm25_ann_DV	f_pm25_ann_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
260170014	FRM	Michigan	Bay	43.571391	-83.890721	98086	9.73	8.7	0.5	0.5797	0.4232	1.1807	2.3577	2.7243	1.0452
260210014	FRM	Michigan	Berrien	42.19779	-86.309694	83071	10.75	9.55	0.5	0.4473	0.5301	1.4341	2.3215	2.958	1.4792
260490021	FRM	Michigan	Genesee	43.047224	-83.670159	100081	10.58	9.29	0.5	0.8243	0.5201	1.3671	2.0852	3.0251	1.1814
260650012	FRM	Michigan	Ingham	42.738618	-84.534633	95078	10.93	9.58	0.5	0.6215	0.5147	1.4	2.4956	3.0197	1.2972
260770008	FRM	Michigan	Kalamazoo	42.278067	-85.54189	89072	12.02	10.73	0.5	0.6798	0.5199	1.4144	3.3316	3.1395	1.3845
260810020	FRM	Michigan	Kent	42.984173	-85.671339	87079	11.79	10.43	0.5	0.3997	0.547	1.43	3.5534	2.9013	1.4047
260990009	FRM	Michigan	Macomb	42.731394	-82.793463	106079	11.28	10.03	0.5	1.1402	0.5806	1.3896	2.2927	3.0975	1.1585
261130001	FRM	Michigan	Missaukee	44.310555	-84.891865	90092	7.37	6.68	0.5	0.1582	0.1743	0.7489	2.6259	2.0095	0.6224
261150005	FRM	Michigan	Monroe	41.763889	-83.471944	103070	12.38	10.88	0.5	0.3964	0.5063	1.5148	3.7464	3.381	1.1535
261210040	FRM	Michigan	Muskegon	43.233061	-86.23858	83081	10.48	9.35	0.5	0.3046	0.4005	1.3621	2.7039	2.8899	1.2968
261250001	FRM	Michigan	Oakland	42.463063	-83.183199	104076	12.1	10.67	0.5	1.2277	0.6609	1.4846	2.4976	3.2559	1.2692
261390005	FRM	Michigan	Ottawa	42.894451	-85.852734	86078	11.5	10.2	0.5	0.3549	0.4687	1.4175	3.3806	2.928	1.3934
261470005	FRM	Michigan	St. Clair	42.953336	-82.456229	108082	11.85	10.64	0.5	1.0538	0.5898	1.4427	2.6462	3.284	1.1508
261610008	FRM	Michigan	Washtenaw	42.240565	-83.599602	102074	12.19	10.77	0.5	0.2795	0.4226	1.4155	4.2849	2.9764	1.2497
261630001	FRM	Michigan	Wayne	42.22862	-83.2082	104074	12.62	11.12	0.5	0.5157	0.6758	1.522	3.7207	3.2198	1.3084
261630015	FRM	Michigan	Wayne	42.302786	-83.10653	105075	14.02	12.52	0.5	1.7263	0.7586	1.627	3.0376	3.6798	1.3269
261630016	FRM	Michigan	Wayne	42.357808	-83.096033	105075	12.94	11.55	0.5	1.5298	0.7093	1.5318	2.7121	3.4221	1.2757
261630019	FRM	Michigan	Wayne	42.43084	-83.000138	105076	12.34	11.03	0.5	1.4682	0.6494	1.4409	2.6695	3.2352	1.1988
261630025	FRM	Michigan	Wayne	42.423063	-83.426263	103076	11.87	10.36	0.5	0.8962	0.6222	1.5353	2.4742	3.308	1.3292
261630033	FRM	Michigan	Wayne	42.306674	-83.148754	105075	15.44	13.84	0.5	1.8996	0.799	1.6904	3.9116	3.8671	1.3424
261630036	FRM	Michigan	Wayne	42.187289	-83.153905	105074	12.43	11.01	0.5	0.7587	0.6848	1.54	3.1248	3.3029	1.3242
261630039	FRM	Michigan	Wayne	42.323341	-83.068473	105075	13.06	11.66	0.5	1.5096	0.7004	1.5209	2.9245	3.4099	1.2388
270370470	FRM	Minnesota	Dakota	44.73846	-93.23725	35091	9.27	8.36	0.5	0.4822	0.4651	1.067	2.6526	2.046	1.3093
270530961	FRM	Minnesota	Hennepin	44.87551	-93.25892	35092	9.01	8.15	0.5	0.4797	0.4622	1.0426	2.5305	2.0238	1.2376
270530963	FRM	Minnesota	Hennepin	44.95366	-93.25821	35093	9.55	8.65	0.5	0.4912	0.4864	1.0958	2.7791	2.0913	1.3375
270531007	FRM	Minnesota	Hennepin	45.03972	-93.29874	35094	9.87	8.93	0.5	0.5079	0.4957	1.1367	2.8848	2.1546	1.402
271230866	FRM	Minnesota	Ramsey	44.89926	-93.01708	37092	10.95	10.02	0.5	0.4573	0.4409	1.0033	4.665	1.9306	1.245
271230868	FRM	Minnesota	Ramsey	44.95072	-93.09827	36093	10.71	9.8	0.5	0.4658	0.4408	0.9922	4.4427	1.9375	1.2134
271377001	FRM	Minnesota	Saint Louis	47.523355	-92.536305	39117	5.98	5.58	0.5	0.2825	0.1543	0.4316	2.7987	1.1256	0.3833
271377550	FRM	Minnesota	Saint Louis	46.81826	-92.08936	42110	6.28	5.87	0.5	0.3322	0.2041	0.6087	2.1402	1.4231	0.657
271377551	FRM	Minnesota	Saint Louis	46.76643	-92.13354	41110	7.62	7.16	0.5	0.3374	0.2071	0.6229	3.3973	1.4406	0.6916
271390505	FRM	Minnesota	Scott	44.791437	-93.512534	33091	9.12	8.17	0.5	0.4894	0.4641	1.0528	2.5477	2.0498	1.2646
271453052	FRM	Minnesota	Stearns	45.549839	-94.13345	29098	8.35	7.6	0.5	0.4694	0.3266	0.8504	2.7903	1.7167	1.1187
280330002	FRM	Mississippi	DeSoto	34.82166	-89.98783	63001	11.93	10.32	0.5	0.7164	0.8917	1.2714	3.412	3.6617	0.2709
290210005	FRM	Missouri	Buchanan	39.741694	-94.858584	26044	11.99	10.94	0.5	0.5738	0.3748	1.0292	5.5235	2.2809	0.9148
290370003	FRM	Missouri	Cass	38.770278	-94.58	28035	10.27	9.11	0.5	0.6274	0.4873	1.1277	3.1146	2.6086	0.9023
290470005	FRM	Missouri	Clay	39.30309	-94.376623	29040	10.55	9.4	0.5	0.4473	0.2892	1.1572	3.7215	2.6055	0.9109
290770032	FRM	Missouri	Greene	37.199541	-93.284874	38021	11.07	9.92	0.5	0.6855	0.3331	1.0593	4.2861	2.7961	0.4737
290950034	FRM	Missouri	Jackson	39.104758	-94.570796	28038	11.86	10.63	0.5	0.6698	0.5933	1.1354	4.5182	2.5943	0.9714
291860006	FRM	Missouri	Sainte Genevieve	37.967281	-90.051204	61030	12.19	10.7	0.5	0.4626	0.3141	1.2816	4.4483	3.4224	0.6729
291892003	FRM	Missouri	Saint Louis	38.649771	-90.350659	58036	12.27	10.76	0.5	0.532	0.4654	1.3841	3.8951	3.4177	0.9513
295100007	FRM	Missouri	St. Louis City	38.542551	-90.263711	59035	13.23	11.72	0.5	0.5365	0.4688	1.3338	5.0153	3.409	0.891
295100085	FRM	Missouri	St. Louis City	38.656485	-90.198759	59036	13.34	11.78	0.5	0.527	0.4523	1.4445	4.7516	3.5095	0.9902
295100087	FRM	Missouri	St. Louis City	38.642857	-90.185059	60036	13.55	11.95	0.5	0.5258	0.4565	1.4406	4.9722	3.5093	0.9845
310550019	FRM	Nebraska	Douglas	41.245947	-95.973128	18058	9.29	8.93	0.5	0.7685	0.46	1.1241	2.1391	2.2395	1.2537
310550052	FRM	Nebraska	Douglas	41.333056	-96.099722	17059	8.99	8.17	0.5	0.7461	0.4317	1.06	2.2004	2.1499	1.1318
310790004	FRM	Nebraska	Hall	40.942099	-98.364967	1055	7.78	6.99	0.5	0.7049	0.2981	0.8386	2.2246	1.8303	0.7443
311090022	FRM	Nebraska	Lancaster	40.81259	-96.68302	13054	8.05	7.15	0.5	0.7064	0.3675	0.9502	1.8999	1.9986	0.9257
311530007	FRM	Nebraska	Sarpy	41.133613	-95.955835	18057	9.36	9.01	0.5	0.7811	0.4556	1.1189	2.2218	2.2663	1.1989
311770002	FRM	Nebraska	Washington	41.551136	-96.146753	16061	8.63	7.76	0.5	0.7039	0.3931	1.0285	2.0761	2.0764	1.1041
330012004	FRM	New Hampshire	Belknap	43.566111	-71.496361	179103	6.77	6.17	0.5	0.2381	0.3539	0.6261	2.2184	2.0825	0.175
330050007	FRM	New Hampshire	Cheshire	42.930472	-72.272389	176096	11	10.17	0.5	0.2638	0.3598	0.7437	5.9277	2.3258	0.2108
330090010	FRM	New Hampshire	Grafton	43.629611	-72.309583	174102	7.76	7.12	0.5	0.2216	0.2739	0.5954	3.5505	1.9115	0.1916
330111015	FRM	New Hampshire	Hillsborough	42.762056	-71.444583	181096	9.57	8.77	0.5	0.3165	0.539	0.8684	3.5354	2.697	0.315
330131006	FRM	New Hampshire	Merrimack	43.13244	-71.458306	180099	9.26	8.43	0.5	0.3061	0.5293	0.8412	3.3275	2.652	0.3215
330150014	FRM	New Hampshire	Rockingham	43.075333	-70.748	185100	8.56	7.95	0.5	0.2599	0.4176	0.6566	3.5413	2.3586	0.1758
330190003	FRM	New Hampshire	Sullivan	43.364444	-72.338333	174100	8.94	8.24	0.5	0.2366	0.2979	0.6194	4.547	2.0006	0.1971

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340011006	FRM	New Jersey	Atlantic	39.363528	-74.431219	170060	11.07	10.01	0.5	0.4295	0.4014	1.2335	3.5029	3.4906	0.2228
340030003	FRM	New Jersey	Bergen	40.852256	-73.973314	169075	12.21	10.84	0.5	0.5531	1.0844	1.4699	2.9706	3.6188	0.6938
340071007	FRM	New Jersey	Camden	39.989036	-75.050008	164065	12.68	11.14	0.5	0.6261	0.6807	1.5785	3.2731	3.8416	0.8309
340171003	FRM	New Jersey	Hudson	40.725454	-74.05229	169073	12.91	11.74	0.5	0.5577	1.0932	1.5247	3.5437	3.6012	0.8086
340172002	FRM	New Jersey	Hudson	40.772793	-74.031718	169074	14.09	12.77	0.5	0.5733	1.1428	1.5902	4.3141	3.7621	0.8487
340210008	FRM	New Jersey	Mercer	40.222411	-74.763167	165068	11.9	10.52	0.5	0.4438	0.6107	1.425	3.3786	3.6152	0.6699
340218001	FRM	New Jersey	Mercer	40.31535	-74.853617	165068	10.08	8.84	0.5	0.3917	0.5495	1.2926	2.3121	3.3206	0.5719
340230006	FRM	New Jersey	Middlesex	40.472786	-74.422515	167070	11.29	10.02	0.5	0.3708	0.6028	1.3294	3.266	3.4788	0.5561
340270004	FRM	New Jersey	Morris	40.801584	-74.483817	166073	10.31	9.1	0.5	0.3575	0.6766	1.2687	2.5017	3.3573	0.5099
340273001	FRM	New Jersey	Morris	40.787628	-74.676301	165073	9.36	8.26	0.5	0.2355	0.3316	1.1597	2.4471	3.2859	0.3592
340292002	FRM	New Jersey	Ocean	39.994908	-74.170447	170067	10.19	9.07	0.5	0.4508	0.73	1.2396	2.4273	3.2192	0.4772
340310005	FRM	New Jersey	Passaic	40.918381	-74.168092	168075	12.26	10.85	0.5	0.5379	1.1046	1.4713	3.0044	3.6214	0.7287
340390004	FRM	New Jersey	Union	40.64144	-74.208365	168072	13.59	12.25	0.5	0.5884	1.5052	1.4629	4.0299	3.5123	0.7244
340390006	FRM	New Jersey	Union	40.673406	-74.213889	168073	12.61	11.29	0.5	0.571	1.4394	1.4532	3.1657	3.5074	0.709
340392003	FRM	New Jersey	Union	40.603943	-74.276174	168072	12.34	11.07	0.5	0.5505	1.3567	1.4366	3.0464	3.5061	0.6882
340410006	FRM	New Jersey	Warren	40.699207	-75.180525	162071	11.84	10.42	0.5	0.3904	0.6625	1.5046	2.9772	3.7763	0.7483
360050080	FRM	New York	Bronx	40.83606	-73.92009	170075	14.34	12.94	0.5	0.5719	1.1175	1.5108	4.8238	3.712	0.7373
360050110	FRM	New York	Bronx	40.81618	-73.902	170074	12.36	11.18	0.5	0.5615	1.0937	1.4833	3.0265	3.6613	0.6914
360130011	FRM	New York	Chautauqua	42.29071	-79.58961	129079	8.65	7.47	0.5	0.3461	0.4002	1.1596	1.6958	3.0349	0.4933
360290005	FRM	New York	Erie	42.876907	-78.809526	133085	11.11	10.07	0.5	0.3566	0.3585	1.179	3.9808	3.0136	0.6787
360291007	FRM	New York	Erie	42.8273	-78.84984	133085	10.78	9.73	0.5	0.3507	0.3606	1.1954	3.5936	3.0599	0.6713
360310003	FRM	New York	Essex	44.39308	-73.8589	162106	5.1	4.6	0.5	0.1063	0.1062	0.4618	1.6507	1.802	0.0975
360470122	FRM	New York	Kings	40.71961	-73.94771	170073	12.87	11.75	0.5	0.5683	1.1059	1.5577	3.3106	3.6758	0.8383
360551007	FRM	New York	Monroe	43.14618	-77.54817	141089	9.47	8.59	0.5	0.268	0.3738	1.2263	2.4198	2.8384	0.8315
360590008	FRM	New York	Nassau	40.63103	-73.73388	171073	10.89	9.88	0.5	0.476	0.9545	1.28	2.7815	3.1493	0.6081
360610079	FRM	New York	New York	40.7997	-73.93432	170074	12.77	11.57	0.5	0.5834	1.1415	1.5392	3.1006	3.7705	0.7604
360632008	FRM	New York	Niagara	43.08218	-79.00106	131087	10.33	9.34	0.5	0.3787	0.3748	1.1914	3.1182	3.0127	0.7117
360671015	FRM	New York	Onondaga	43.05235	-76.05921	151091	8.73	7.79	0.5	0.28	0.3151	1.0084	2.4659	2.8518	0.4092
360710002	FRM	New York	Orange	41.49916	-74.00885	168080	9.95	8.94	0.5	0.3709	0.5935	1.1371	2.7651	3.1152	0.4083
360810124	FRM	New York	Queens	40.73614	-73.82153	171074	11.33	10.18	0.5	0.514	1.0155	1.3697	2.6981	3.352	0.6604
360850055	FRM	New York	Richmond	40.63307	-74.13719	169072	12.43	11.24	0.5	0.5633	1.3715	1.4363	3.1477	3.4637	0.6989
360850067	FRM	New York	Richmond	40.59664	-74.12525	169072	10.87	9.86	0.5	0.4678	1.1118	1.2069	3.0248	2.9679	0.5312
360893001	FRM	New York	St. Lawrence	44.67811	-74.95151	154107	5.95	5.45	0.5	0.1712	0.1848	0.5727	2.0153	1.7935	0.2666
361010003	FRM	New York	Steuben	42.09142	-77.20978	145080	8.1	7.03	0.5	0.287	0.3063	0.9594	1.9157	3.0356	0.2481
361030002	FRM	New York	Suffolk	40.74529	-73.41919	173075	10.45	9.46	0.5	0.4372	0.8312	1.2232	2.7348	3.049	0.5753
361191002	FRM	New York	Westchester	40.93149	-73.76575	171076	11.22	10.02	0.5	0.5206	0.9974	1.3892	2.4051	3.4976	0.6255
370010002	FRM	North Carolina	Alamance	36.089004	-79.407821	141023	12.88	10.66	0.5	0.367	0.5366	1.4525	4.0445	4.3856	0.2081
370210034	FRM	North Carolina	Buncombe	35.6075	-82.583333	118015	11.21	9.33	0.5	0.3305	0.4201	1.1499	3.9272	3.681	0.0563
370330001	FRM	North Carolina	Caswell	36.307033	-79.467417	140025	12.32	10.12	0.5	0.36	0.5411	1.4688	3.413	4.4345	0.2037
370350004	FRM	North Carolina	Catawba	35.728889	-81.365556	127017	14.18	11.8	0.5	0.3484	0.7404	1.5656	4.8049	4.4374	0.226
370370004	FRM	North Carolina	Chatham	35.757222	-79.159722	143020	11.79	9.64	0.5	0.3627	0.4919	1.421	3.2331	4.2366	0.1887
370510009	FRM	North Carolina	Cumberland	35.041416	-78.953112	146014	12.99	11.12	0.5	0.3153	0.4896	1.4104	4.6683	3.9819	0.3121
370570002	FRM	North Carolina	Davidson	35.814444	-80.2625	135019	14.45	12.03	0.5	0.4244	0.628	1.6542	4.5381	4.8408	0.2246
370610002	FRM	North Carolina	Duplin	34.954823	-77.960781	154015	10.5	8.91	0.5	0.3072	0.3449	1.257	3.0589	3.5996	0.1705
370650004	FRM	North Carolina	Edgecombe	35.93355	-77.75007	153024	11.84	9.95	0.5	0.3594	0.4315	1.3742	3.6454	4.0023	0.1695
370670022	FRM	North Carolina	Forsyth	36.110556	-80.226667	135022	13.28	10.82	0.5	0.3012	0.5269	1.6187	3.7632	4.7935	0.2075
370670030	FRM	North Carolina	Forsyth	36.026	-80.342	134021	13.15	10.76	0.5	0.3338	0.5497	1.6138	3.6453	4.7256	0.2272
370710016	FRM	North Carolina	Gaston	35.253056	-81.153333	129013	13.34	11.04	0.5	0.4131	0.6195	1.5078	4.1765	4.4365	0.2065
370990006	FRM	North Carolina	Jackson	35.466667	-83.278056	113012	11.54	9.5	0.5	0.4866	0.3875	1.1529	4.1052	3.7341	0.0567
371070004	FRM	North Carolina	Lenoir	35.231459	-77.568792	156018	10.44	8.86	0.5	0.305	0.294	1.2454	3.1223	3.5551	0.129
371110004	FRM	North Carolina	McDowell	35.687404	-81.993789	122016	12.98	10.9	0.5	0.3741	0.4461	1.2619	5.1887	3.8564	0.074
371170001	FRM	North Carolina	Martin	35.81069	-76.89782	160024	10.57	8.92	0.5	0.3407	0.3794	1.3381	2.6387	3.8516	0.1782
371190041	FRM	North Carolina	Mecklenburg	35.2401	-80.785683	132013	13.65	11.32	0.5	0.4287	0.5722	1.4894	4.5716	4.4264	0.2016
371190042	FRM	North Carolina	Mecklenburg	35.151283	-80.866983	132013	13.85	11.52	0.5	0.4289	0.5879	1.5076	4.6928	4.4593	0.2114
371190043	FRM	North Carolina	Mecklenburg	35.3041	-80.88865	131014	13.27	10.95	0.5	0.4466	0.6032	1.5545	3.856	4.5808	0.217
371210001	FRM	North Carolina	Mitchell	35.915278	-82.073333	122018	11.88	9.84	0.5	0.4173	0.4026	1.2743	4.0415	3.8967	0.0463
371230001	FRM	North Carolina	Montgomery	35.26	-79.84	139015	11.64	9.54	0.5	0.3427	0.4576	1.3974	3.1727	4.2288	0.1835

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_id	_type	_STATE_NAME	_COUNTY_NAME	monitor_lat	monitor_long	monitor_gridcell	b_pm25_ann_DV	f_pm25_ann_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
371470005	FRM	North Carolina	Pitt	35.594167	-77.386111	157022	11.3	9.56	0.5	0.3338	0.3435	1.3414	3.4106	3.8445	0.149
371550005	FRM	North Carolina	Robeson	34.6425	-78.990278	147011	12.26	10.44	0.5	0.311	0.443	1.3663	4.0919	3.9887	0.2667
371590021	FRM	North Carolina	Rowan	35.551868	-80.395039	135017	13.56	11.36	0.5	0.3493	0.4907	1.5381	4.4213	4.5616	0.1942
371730002	FRM	North Carolina	Swain	35.435509	-83.443697	112012	12.1	9.97	0.5	0.5079	0.4197	1.2141	4.3102	3.9226	0.0688
371830014	FRM	North Carolina	Wake	35.856111	-78.574167	147022	12.78	10.66	0.5	0.3922	0.5094	1.4004	4.319	4.1677	0.1594
371890003	FRM	North Carolina	Watauga	36.221944	-81.663056	124021	10.67	8.65	0.5	0.3613	0.4916	1.3327	2.5949	3.9136	0.119
371910005	FRM	North Carolina	Wayne	35.369214	-77.993893	153019	12.31	10.54	0.5	0.3256	0.3738	1.307	4.5786	3.7406	0.1664
380171004	FRM	North Dakota	Cass	46.933754	-96.85535	11111	7.99	7.33	0.5	0.839	0.27	0.6846	2.9471	1.3596	0.9063
390090003	FRM	Ohio	Athens	39.4425	-81.908611	117050	11.77	9.57	0.5	0.4773	0.499	1.5318	2.3342	4.6356	0.4081
390170003	FRM	Ohio	Butler	39.493611	-84.353889	100048	14.4	12.38	0.5	0.6315	0.5898	1.8555	3.6153	4.5596	1.0604
390170016	FRM	Ohio	Butler	39.338333	-84.566389	99046	14.22	12.21	0.5	0.4635	0.605	1.7671	4.0929	4.3454	0.9427
390230005	FRM	Ohio	Clark	39.928889	-83.809722	103053	13.46	11.6	0.5	0.3908	0.5261	1.7442	3.7435	4.1009	1.039
390250022	FRM	Ohio	Clermont	39.082319	-84.144193	102045	12.82	10.96	0.5	0.4216	0.607	1.7476	2.8019	4.352	0.8774
390350027	FRM	Ohio	Cuyahoga	41.4775	-81.703056	116069	13.49	11.78	0.5	1.0802	0.9091	1.7965	2.4389	3.9748	1.2733
390350034	FRM	Ohio	Cuyahoga	41.555	-81.575	116070	11.97	10.45	0.5	0.9339	0.7745	1.5777	2.2202	3.574	1.0374
390350038	FRM	Ohio	Cuyahoga	41.476944	-81.681944	116069	15.08	13.28	0.5	1.0785	0.9022	1.787	4.0839	3.9845	1.2134
390350045	FRM	Ohio	Cuyahoga	41.471667	-81.657222	116069	14.33	12.54	0.5	1.086	0.906	1.7967	3.2653	4.0121	1.2182
390350060	FRM	Ohio	Cuyahoga	41.493955	-81.678542	116069	14.85	13.05	0.5	1.0861	0.9101	1.7812	3.8687	4.0074	1.1705
390350065	FRM	Ohio	Cuyahoga	41.446389	-81.661944	116069	14.51	12.66	0.5	1.126	0.9375	1.8534	3.0831	4.1864	1.2217
390351002	FRM	Ohio	Cuyahoga	41.395556	-81.818056	115068	12.34	10.78	0.5	0.9164	0.6796	1.5821	2.5795	3.6478	1.0806
390490024	FRM	Ohio	Franklin	39.998333	-82.993056	109054	13.66	11.59	0.5	0.533	0.5427	1.6584	3.9408	4.2305	0.8051
390490025	FRM	Ohio	Franklin	39.928056	-82.981111	109053	13.56	11.5	0.5	0.5388	0.5513	1.655	3.8091	4.2538	0.8021
390570005	FRM	Ohio	Greene	39.808056	-83.886944	103051	12.27	10.41	0.5	0.3983	0.527	1.7303	2.6054	4.0991	0.9944
390610006	FRM	Ohio	Hamilton	39.278499	-84.365974	100046	13.46	11.47	0.5	0.4431	0.6024	1.7473	3.4606	4.3158	0.878
390610014	FRM	Ohio	Hamilton	39.194167	-84.478889	100045	15.71	13.67	0.5	0.4136	0.633	1.85	5.3323	4.444	0.9678
390610040	FRM	Ohio	Hamilton	39.128611	-84.504167	100045	13.75	11.78	0.5	0.4015	0.625	1.8164	3.5544	4.3802	0.92
390610042	FRM	Ohio	Hamilton	39.105	-84.551111	99044	15.08	13.07	0.5	0.3977	0.64	1.7779	4.903	4.4319	0.8947
390610043	FRM	Ohio	Hamilton	39.290278	-84.414444	100046	14.21	12.2	0.5	0.4626	0.5937	1.7874	4.0485	4.3343	0.9613
390617001	FRM	Ohio	Hamilton	39.16	-84.457778	100045	14.39	12.41	0.5	0.3974	0.6253	1.79	4.2687	4.3784	0.891
390618001	FRM	Ohio	Hamilton	39.180278	-84.491944	100045	15.45	13.46	0.5	0.3922	0.6099	1.762	5.4531	4.3109	0.8986
390811001	FRM	Ohio	Jefferson	40.321944	-80.606389	125060	14.77	12.62	0.5	0.8223	0.8763	1.7817	3.7931	4.8176	0.4823
390853002	FRM	Ohio	Lake	41.7225	-81.241944	118072	12.28	10.75	0.5	0.8626	0.7082	1.6197	2.3759	3.8675	0.9407
390933002	FRM	Ohio	Lorain	41.463056	-82.114444	113068	11.89	10.63	0.5	0.8773	0.4277	1.2632	3.8307	3.2272	0.7311
390950024	FRM	Ohio	Lucas	41.644167	-83.546667	103069	13.11	11.49	0.5	0.4495	0.5861	1.6462	3.7805	3.5484	1.3519
390950026	FRM	Ohio	Lucas	41.620556	-83.641389	102068	13.06	11.42	0.5	0.4631	0.6091	1.6955	3.5066	3.5846	1.44
390990005	FRM	Ohio	Mahoning	41.111111	-80.645278	123067	13.45	11.74	0.5	0.8386	0.7288	1.5814	3.6985	3.9271	0.8126
390990014	FRM	Ohio	Mahoning	41.095868	-80.658426	123067	13.57	11.86	0.5	0.8273	0.7058	1.5518	3.99	3.8712	0.7681
391030003	FRM	Ohio	Medina	41.102778	-81.911667	115065	12.11	10.42	0.5	0.6574	0.518	1.6226	2.5646	3.8822	1.0128
391130032	FRM	Ohio	Montgomery	39.760278	-84.187778	101051	14.15	12.31	0.5	0.3526	0.511	1.7523	4.4955	4.0947	1.0342
391330002	FRM	Ohio	Portage	41.164167	-81.235	119067	12.59	10.78	0.5	0.6184	0.6238	1.6941	2.6517	4.0317	1.0444
391351001	FRM	Ohio	Preble	39.835556	-84.720833	97051	12.67	10.9	0.5	0.4573	0.5136	1.7336	2.8598	4.1193	1.0432
391450013	FRM	Ohio	Scioto	38.754167	-82.9175	111043	13.48	11.35	0.5	0.4767	0.6759	1.5804	3.7204	4.6746	0.3887
391530017	FRM	Ohio	Summit	41.063333	-81.468611	118066	14.04	12.25	0.5	0.4229	0.5134	1.6774	4.5482	3.9609	1.0487
391530023	FRM	Ohio	Summit	41.088056	-81.541667	117066	13.13	11.42	0.5	0.3682	0.4855	1.6523	3.8594	3.8769	1.0508
391550007	FRM	Ohio	Trumbull	41.214167	-80.7875	122068	13.3	11.61	0.5	0.7796	0.692	1.5718	3.68	3.8933	0.8255
400159008	FRM	Oklahoma	Caddo	35.111944	-98.252778	1001	8.47	7.81	0.5	0.6362	0.2899	0.7998	3.0497	2.1594	0.347
400970186	FRM	Oklahoma	Mayes	36.304624	-95.310616	23013	11.52	10.59	0.5	0.7606	0.4152	1.0437	4.6253	2.8205	0.4335
401010169	FRM	Oklahoma	Muskogee	35.755273	-95.377669	23007	11.58	10.63	0.5	0.689	0.4189	1.0627	4.6647	2.886	0.4145
401091037	FRM	Oklahoma	Oklahoma	35.614131	-97.475083	7006	10.14	9.12	0.5	0.651	0.4145	1.0749	3.2265	2.7306	0.6383
401159004	FRM	Oklahoma	Ottawa	36.922222	-94.838889	26018	11.24	10.21	0.5	0.8372	0.3695	1.0268	4.4293	2.7092	0.4732
401359015	FRM	Oklahoma	Sequoyah	35.581174	-94.830059	27006	11.91	10.93	0.5	0.6288	0.3532	0.9709	5.5511	2.6824	0.3292
401431127	FRM	Oklahoma	Tulsa	36.204902	-95.976537	18012	11.31	10.35	0.5	0.7065	0.4647	1.0992	4.1623	2.9605	0.463
420010001	FRM	Pennsylvania	Adams	39.92002	-77.30968	149061	11.85	9.92	0.5	0.2264	0.3037	1.6054	2.9004	4.1163	0.8352
420030008	FRM	Pennsylvania	Allegheny	40.465556	-79.961111	129062	14.04	11.94	0.5	0.8945	0.88	1.631	3.4899	4.5855	0.5971
420030064	FRM	Pennsylvania	Allegheny	40.323744	-79.868137	130061	18.33	16.16	0.5	0.6966	0.7463	1.5925	8.3422	4.4538	0.5089
420030067	FRM	Pennsylvania	Allegheny	40.381944	-80.185556	128061	11.79	9.84	0.5	0.6302	0.6751	1.4908	2.2852	4.4105	0.4472
420031008	FRM	Pennsylvania	Allegheny	40.618611	-79.727222	131064	14.16	12.01	0.5	0.7438	0.8174	1.6735	3.726	4.5783	0.6014

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_id	_type	_STATE_NAME	_COUNTY_NAME	monitor_lat	monitor_long	monitor_gridcell	b_pm25_ann_DV	f_pm25_ann_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
420031301	FRM	Pennsylvania	Allegheny	40.4025	-79.860278	130062	15.23	13.03	0.5	0.84	0.871	1.7182	4.4154	4.7087	0.6233
420033007	FRM	Pennsylvania	Allegheny	40.294092	-79.884824	130061	14.3	12.04	0.5	0.7299	0.7992	1.7217	3.6452	4.7674	0.5413
420070014	FRM	Pennsylvania	Beaver	40.747796	-80.316442	126064	14.93	13.2	0.5	0.6618	0.6883	1.5217	5.3633	4.2764	0.5297
420110011	FRM	Pennsylvania	Berks	40.38335	-75.9686	157067	13.56	12.05	0.5	0.3572	0.6605	1.6836	4.1141	3.692	1.1874
420170012	FRM	Pennsylvania	Bucks	40.107222	-74.882222	165066	12.61	11.12	0.5	0.5265	0.6614	1.5271	3.524	3.7834	0.7589
420210011	FRM	Pennsylvania	Cambria	40.309722	-78.915	137062	14.35	12.14	0.5	0.3891	0.5493	1.614	4.9667	4.3501	0.4876
420270100	FRM	Pennsylvania	Centre	40.811389	-77.877028	143068	11.36	9.51	0.5	0.2831	0.3699	1.5447	2.568	4.1033	0.6266
420410101	FRM	Pennsylvania	Cumberland	40.246528	-77.18675	149064	13.24	11.36	0.5	0.3422	0.481	1.5518	4.2696	3.9141	0.8602
420430401	FRM	Pennsylvania	Dauphin	40.245	-76.844722	151064	13.8	11.69	0.5	0.4098	0.7097	1.8713	3.2561	4.2863	1.2454
420450002	FRM	Pennsylvania	Delaware	39.835556	-75.3725	162063	14.09	12.49	0.5	0.6294	0.6728	1.6026	4.1455	4.333	0.8056
420490003	FRM	Pennsylvania	Erie	42.14175	-80.038611	126077	11.36	9.95	0.5	0.4088	0.4644	1.3576	3.3268	3.5084	0.6094
420692006	FRM	Pennsylvania	Lackawanna	41.442778	-75.623056	157077	10.65	9.24	0.5	0.3201	0.5369	1.3072	2.6841	3.6342	0.4902
420710007	FRM	Pennsylvania	Lancaster	40.046667	-76.283333	155064	14.48	12.48	0.5	0.3513	0.5608	2.017	3.7105	4.1529	1.6652
420850100	FRM	Pennsylvania	Mercer	41.215014	-80.484779	124068	12.2	10.56	0.5	0.7587	0.69	1.5186	2.8352	3.8498	0.7066
420910013	FRM	Pennsylvania	Montgomery	40.112222	-75.309167	162066	12.26	10.63	0.5	0.5171	0.693	1.6262	2.6718	3.9916	0.8591
420950025	FRM	Pennsylvania	Northampton	40.628056	-75.341111	161070	12.77	11.23	0.5	0.3964	0.7037	1.5478	3.685	3.8285	0.7929
421010004	FRM	Pennsylvania	Philadelphia	40.008889	-75.097778	164065	13.43	11.82	0.5	0.6071	0.6993	1.6102	3.8909	3.9261	0.8235
421250005	FRM	Pennsylvania	Washington	40.146667	-79.902222	130059	14.35	12.01	0.5	0.6276	0.7362	1.7018	3.9534	4.7381	0.502
421250200	FRM	Pennsylvania	Washington	40.170556	-80.261389	128059	13.39	11.21	0.5	0.6098	0.6932	1.6166	3.3486	4.6567	0.4434
421290008	FRM	Pennsylvania	Westmoreland	40.304694	-79.505667	133061	14.08	11.62	0.5	0.3958	0.6681	1.6734	4.2419	4.528	0.5007
421330008	FRM	Pennsylvania	York	39.965278	-76.699444	153062	14.58	12.49	0.5	0.5058	0.7229	1.9298	3.7839	4.298	1.305
440030002	FRM	Rhode Island	Kent	41.6156	-71.7199	183085	7.73	6.95	0.5	0.2853	0.4195	0.8427	2.0571	2.6	0.2415
440070022	FRM	Rhode Island	Providence	41.807949	-71.415	184088	9.56	8.67	0.5	0.3018	0.4819	0.922	3.4442	2.7424	0.3426
440070026	FRM	Rhode Island	Providence	41.874655	-71.379944	184088	11.39	10.43	0.5	0.3128	0.4839	0.9259	5.1484	2.8653	0.2955
440070028	FRM	Rhode Island	Providence	41.80933	-71.40743	184088	9.97	9.08	0.5	0.2999	0.4858	0.9171	3.8614	2.7334	0.3492
440071010	FRM	Rhode Island	Providence	41.84092	-71.36094	184088	9.23	8.37	0.5	0.3057	0.4667	0.8984	3.1367	2.8094	0.2726
450250001	FRM	South Carolina	Chesterfield	34.615367	-80.198787	138009	11.96	10.12	0.5	0.2797	0.3155	1.236	4.2245	4.128	0.1276
450410002	FRM	South Carolina	Florence	34.167636	-79.850404	141005	12.05	10.35	0.5	0.3466	0.3885	1.2472	4.1476	4.0962	0.1227
450450008	FRM	South Carolina	Greenville	34.838814	-82.402918	121008	14.21	11.99	0.5	0.3559	0.4871	1.2834	6.1932	4.0282	0.145
450450009	FRM	South Carolina	Greenville	34.899141	-82.31307	121008	13.73	11.46	0.5	0.3625	0.5136	1.3403	5.3974	4.1934	0.1556
450630008	FRM	South Carolina	Lexington	34.051017	-81.15495	131002	13.65	11.66	0.5	0.5604	0.5767	1.2966	5.3655	3.9657	0.0823
450730001	FRM	South Carolina	Oconee	34.805261	-83.2377	115006	10.46	8.42	0.5	0.4559	0.3738	1.1853	2.9349	3.7754	0.0911
450790007	FRM	South Carolina	Richland	34.093959	-80.962304	133003	13.1	11.04	0.5	0.5875	0.6074	1.3613	4.4452	4.1463	0.0884
450790019	FRM	South Carolina	Richland	33.991509	-81.024141	132002	13.25	11.27	0.5	0.5754	0.5956	1.3112	4.8669	4.0058	0.0823
450830010	FRM	South Carolina	Spartanburg	34.926839	-82.005211	124009	13.29	11.11	0.5	0.3735	0.5273	1.349	4.9075	4.1912	0.1496
460110002	FRM	South Dakota	Brookings	44.310283	-96.80071	12086	8.52	7.73	0.5	0.5473	0.2852	0.799	3.3324	1.5339	0.9433
460130003	FRM	South Dakota	Brown	45.4625	-98.486111	1097	7.93	7.25	0.5	0.5732	0.2464	0.6382	3.4634	1.315	0.7314
460290002	FRM	South Dakota	Codington	44.89965	-97.128802	10092	9.5	8.73	0.5	0.5518	0.265	0.7196	4.6481	1.4324	0.867
460990006	FRM	South Dakota	Minnehaha	43.544289	-96.726435	12079	9.57	8.67	0.5	0.5362	0.3507	0.8748	4.0271	1.6594	1.005
470090011	FRM	Tennessee	Blount	35.768431	-83.942123	108015	14.08	11.86	0.5	0.5548	0.4821	1.3097	5.6016	4.3418	0.0894
470370023	FRM	Tennessee	Davidson	36.176326	-86.738902	87016	13.19	11.31	0.5	0.6635	0.7208	1.3551	4.2442	4.1567	0.3739
470370036	FRM	Tennessee	Davidson	36.118251	-86.873547	86015	12.13	10.24	0.5	0.6517	0.6676	1.3916	3.0599	4.2577	0.3545
470450004	FRM	Tennessee	Dyer	36.052871	-89.38227	67012	11.42	9.81	0.5	0.6547	0.5798	1.3442	2.8306	3.9389	0.3529
470650031	FRM	Tennessee	Hamilton	34.994555	-85.242872	99006	13.82	11.54	0.5	0.4964	0.539	1.4049	5.0251	4.3749	0.098
470651011	FRM	Tennessee	Hamilton	35.233527	-85.181806	99008	12.89	10.51	0.5	0.5465	0.6054	1.519	3.451	4.649	0.1447
470654002	FRM	Tennessee	Hamilton	35.050928	-85.292975	99007	14.26	11.79	0.5	0.5303	0.6185	1.5394	4.7393	4.6739	0.1377
470990002	FRM	Tennessee	Lawrence	35.116223	-87.47001	82005	11.34	9.68	0.5	0.323	0.3052	1.2471	3.6725	3.9495	0.1721
471050108	FRM	Tennessee	Loudon	35.744799	-84.317313	105014	14.9	12.63	0.5	0.5461	0.522	1.3445	6.2674	4.3315	0.1139
471071002	FRM	Tennessee	McMinn	35.451111	-84.599167	103011	14.06	11.71	0.5	0.5649	0.5221	1.4206	5.1082	4.4493	0.1234
471130006	FRM	Tennessee	Madison	35.651541	-88.809652	72009	11.75	10.15	0.5	0.5652	0.5383	1.3251	3.3201	3.9832	0.3328
471192007	FRM	Tennessee	Maury	35.65192	-87.0263	85011	12.3	10.5	0.5	0.5001	0.5148	1.3443	3.8481	4.0872	0.2827
471251009	FRM	Tennessee	Montgomery	36.514444	-87.327778	82018	12.63	10.84	0.5	0.5392	0.5065	1.4603	3.6589	4.2536	0.3743
471450004	FRM	Tennessee	Roane	35.938695	-84.54372	103015	13.95	11.65	0.5	0.5551	0.5674	1.3703	5.1567	4.3513	0.1472
471570014	FRM	Tennessee	Shelby	35.085833	-89.949444	64003	12.55	10.86	0.5	0.7389	0.9573	1.3008	3.832	3.7088	0.2711
471570047	FRM	Tennessee	Shelby	35.16895	-90.021567	63004	12.47	10.77	0.5	0.6519	0.8874	1.3046	3.7094	3.9484	0.3028
471631007	FRM	Tennessee	Sullivan	36.540654	-82.521667	117023	13.27	11.18	0.5	0.6658	0.5026	1.5902	3.5844	4.6323	0.2056
471650007	FRM	Tennessee	Sumner	36.297778	-86.652778	87017	12.66	10.58	0.5	0.6406	0.5153	1.5828	2.91	4.7057	0.2961

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_id	_type	_STATE_NAME	_COUNTY_NAME	monitor_lat	monitor_long	monitor_gridcell	b_pm25_ann_DV	f_pm25_ann_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
500030004	FRM	Vermont	Bennington	42.88759	-73.24984	169094	7.47	6.91	0.5	0.22	0.2023	0.595	3.4034	1.8989	0.0955
500070012	FRM	Vermont	Chittenden	44.480278	-73.214444	166108	8.27	7.65	0.5	0.2507	0.3197	0.7864	3.2751	1.9382	0.5326
500210002	FRM	Vermont	Rutland	43.608056	-72.982778	169101	10.61	9.95	0.5	0.2197	0.2306	0.6171	6.3757	1.958	0.1675
510130020	FRM	Virginia	Arlington	38.8575	-77.059167	152052	12.87	10.69	0.5	0.6657	0.933	1.5254	3.1843	4.2159	0.5033
510360002	FRM	Virginia	Charles	37.343294	-77.260034	154038	11.47	9.53	0.5	0.3232	0.4677	1.3703	3.2022	4.0758	0.2532
510410003	FRM	Virginia	Chesterfield	37.436111	-77.450833	152038	12.43	10.27	0.5	0.3526	0.5224	1.4975	3.5047	4.3783	0.3017
510590030	FRM	Virginia	Fairfax	38.772778	-77.105556	152051	12.11	9.96	0.5	0.6729	0.9558	1.4958	2.5411	4.1258	0.5008
510595001	FRM	Virginia	Fairfax	38.931944	-77.198889	151052	12.67	10.49	0.5	0.5663	0.7699	1.5161	3.1583	4.3128	0.5393
510870014	FRM	Virginia	Henrico	37.558333	-77.400278	153039	12.1	10.04	0.5	0.3373	0.4987	1.4496	3.4462	4.2379	0.2907
510870015	FRM	Virginia	Henrico	37.670278	-77.5675	151040	11.81	9.72	0.5	0.3419	0.5062	1.4364	3.1985	4.2161	0.2828
511071005	FRM	Virginia	Loudoun	39.024444	-77.49	149052	12.17	10.11	0.5	0.4969	0.6495	1.4415	3.2067	4.1006	0.5238
511390004	FRM	Virginia	Page	38.663333	-78.504722	143048	11.68	9.43	0.5	0.2132	0.2776	1.6907	2.795	4.0224	0.7843
515200006	FRM	Virginia	Bristol City	36.607778	-82.164444	120024	12.66	10.53	0.5	0.3137	0.6664	1.5624	3.4298	4.3745	0.2686
516500004	FRM	Virginia	Hampton City	37.003333	-76.399167	161036	11.42	9.78	0.5	0.3932	0.5298	1.4272	2.8133	4.1188	0.3033
516800015	FRM	Virginia	Lynchburg City	37.3605	-79.1883	140035	11.86	9.74	0.5	0.4173	0.5514	1.3609	3.415	4.1069	0.1853
517100024	FRM	Virginia	Norfolk City	36.857778	-76.301667	162035	12.49	10.78	0.5	0.3683	0.4652	1.4688	3.7423	4.2626	0.2787
517700014	FRM	Virginia	Roanoke City	37.256111	-79.985	135033	13.44	11.21	0.5	0.4357	0.5921	1.4819	4.2392	4.5325	0.2588
518100008	FRM	Virginia	Virginia Beach City	36.841111	-76.181389	163035	11.85	10.24	0.5	0.3566	0.4542	1.4276	3.3367	4.1218	0.2838
540030003	FRM	West Virginia	Berkeley	39.448006	-77.964125	145056	14.91	12.73	0.5	0.4002	0.5091	1.5937	5.5631	4.2828	0.652
540090005	FRM	West Virginia	Brooke	40.341023	-80.596635	125060	15.43	13.18	0.5	0.8482	0.9012	1.8304	4.1514	4.9675	0.4695
540090011	FRM	West Virginia	Brooke	40.394583	-80.612017	125060	14.92	12.7	0.5	0.8431	0.8906	1.8104	3.763	4.9094	0.4658
540110006	FRM	West Virginia	Cabell	38.424133	-82.4259	115040	15.24	12.98	0.5	0.4772	0.6895	1.5987	5.3103	4.8636	0.31
540291004	FRM	West Virginia	Hancock	40.421539	-80.580717	125061	14.25	12.14	0.5	0.7524	0.8013	1.6964	3.7211	4.7117	0.4344
540330003	FRM	West Virginia	Harrison	39.278117	-80.34225	129051	13.42	11.22	0.5	0.439	0.5053	1.5676	3.9786	4.6167	0.2893
540390010	FRM	West Virginia	Kanawha	38.3456	-81.628317	121041	14.21	11.74	0.5	0.5296	0.7837	1.6128	4.0365	4.9473	0.2125
540391005	FRM	West Virginia	Kanawha	38.366183	-81.693717	121041	15.41	12.89	0.5	0.5683	0.877	1.6549	5.0115	4.8954	0.2291
540490006	FRM	West Virginia	Marion	39.481483	-80.134667	130053	14.51	12.26	0.5	0.4917	0.5297	1.6189	4.7853	4.6843	0.3343
540511002	FRM	West Virginia	Marshall	39.915961	-80.733858	125056	14.18	11.9	0.5	0.3822	0.5553	1.7454	3.9129	5.0422	0.3578
540610003	FRM	West Virginia	Monongalia	39.649367	-79.920867	131055	13.6	11.11	0.5	0.4825	0.5459	1.574	4.06	4.5948	0.3281
540690010	FRM	West Virginia	Ohio	40.114876	-80.700972	125058	13.71	11.42	0.5	0.5634	0.665	1.7422	3.1785	4.9681	0.4031
540810002	FRM	West Virginia	Raleigh	37.807767	-81.197433	125036	11.94	9.84	0.5	0.4251	0.6041	1.3993	3.0422	4.4566	0.1663
541071002	FRM	West Virginia	Wood	39.323533	-81.552367	120050	14.59	12.23	0.5	0.4526	0.4783	1.5373	5.1278	4.7028	0.364
550030010	FRM	Wisconsin	Ashland	46.61455	-90.69868	51109	6.26	5.83	0.5	0.3026	0.2012	0.6504	1.9636	1.5116	0.6686
550090005	FRM	Wisconsin	Brown	44.507004	-87.992978	70091	11.87	11.04	0.5	0.2214	0.2516	1.0558	5.6651	2.2178	1.2362
550250047	FRM	Wisconsin	Dane	43.073333	-89.435833	61077	12.61	11.32	0.5	0.5618	0.417	1.4503	4.1586	2.7203	1.773
550270007	FRM	Wisconsin	Dodge	43.435	-88.527778	67081	11.11	10	0.5	0.2392	0.276	1.4079	3.4527	2.548	1.7333
550410007	FRM	Wisconsin	Forest	45.56498	-88.80859	64100	7.14	6.6	0.5	0.2404	0.2066	0.8	2.2059	1.7667	0.8644
550430009	FRM	Wisconsin	Grant	42.69215	-90.68637	53073	12.33	10.99	0.5	0.5197	0.3803	1.4731	3.8519	2.8233	1.7147
550590019	FRM	Wisconsin	Kenosha	42.504722	-87.8093	73073	12.7	11.32	0.5	0.339	0.4133	1.6461	3.2811	3.4502	1.8966
550630012	FRM	Wisconsin	La Crosse	43.778	-91.225	49083	12.07	10.98	0.5	0.4014	0.3039	1.0248	5.8955	2.0084	1.1981
550710007	FRM	Wisconsin	Manitowoc	44.138611	-87.616111	73088	10.7	9.88	0.5	0.2124	0.2657	1.0701	4.4301	2.2551	1.2584
550790010	FRM	Wisconsin	Milwaukee	43.016667	-87.933333	72077	13.39	12.15	0.5	0.5118	0.5346	1.5859	4.2809	3.0012	1.8549
550790026	FRM	Wisconsin	Milwaukee	43.061111	-87.9125	72078	13.47	12.19	0.5	0.4908	0.5534	1.6379	4.1354	3.0889	1.9156
550790043	FRM	Wisconsin	Milwaukee	43.02641	-87.91111	72077	13.94	12.68	0.5	0.4928	0.5411	1.5916	4.8303	3.012	1.8548
550790059	FRM	Wisconsin	Milwaukee	42.955	-87.934167	72077	14.52	13.21	0.5	0.6375	0.5772	1.6589	4.831	3.1733	1.952
550790099	FRM	Wisconsin	Milwaukee	43.039722	-87.920556	72078	13.95	12.68	0.5	0.4989	0.5442	1.6156	4.7249	3.0742	1.8652
550870009	FRM	Wisconsin	Outagamie	44.306944	-88.395556	67089	11.36	10.53	0.5	0.2323	0.2608	1.1047	4.9443	2.2481	1.3084
550890009	FRM	Wisconsin	Ozaukee	43.498056	-87.81	72082	11.88	10.71	0.5	0.5437	0.4676	1.5223	3.0538	2.8942	1.8328
551091002	FRM	Wisconsin	St. Croix	45.124444	-92.6625	39094	10.33	9.4	0.5	0.482	0.4572	1.0892	3.5763	2.08	1.3864
551110007	FRM	Wisconsin	Sauk	43.435556	-89.680278	60080	10.5	9.37	0.5	0.4899	0.3813	1.3876	2.4294	2.6194	1.7127
551198001	FRM	Wisconsin	Taylor	45.203889	-90.6	52096	8.98	8.27	0.5	0.3357	0.2301	0.9284	3.2489	2.0307	1.0555
551250001	FRM	Wisconsin	Vilas	46.048056	-89.653611	58104	6.89	6.41	0.5	0.2854	0.1948	0.7096	2.3173	1.6802	0.6879
551330027	FRM	Wisconsin	Waukesha	43.020278	-88.215	70077	13.87	12.73	0.5	1.1144	0.6026	1.4117	4.7314	2.7107	1.7708

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10331002	1.1656	0.0022	0.5	0.4431	0.2842	0.9765	4.1858	3.0835	0.1403	0.9147	0.0023	1.0665	0.7618	0.7778	0.9772	0.765	0.8213	0.7847	1.0496
10890014	1.5265	0.0083	0.5	0.4494	0.3225	1.1875	3.7015	3.2828	0.2188	1.1468	0.0085	1.0548	0.7374	0.7536	0.9733	0.7485	0.8198	0.7513	1.0281
11030011	1.2795	0.0089	0.5	0.3579	0.2709	1.0421	4.1891	3.2864	0.143	0.9797	0.0091	1.0506	0.7321	0.7632	0.9719	0.7546	0.8271	0.7657	1.0236
50350005	1.2299	0.0167	0.5	0.7862	0.694	1.0503	3.6107	2.9546	0.2341	0.9922	0.0171	1.0571	0.7218	0.8087	0.9689	0.802	0.8145	0.8067	1.0269
50450002	0.9276	0.0141	0.5	0.7787	0.4118	0.8364	4.6656	2.405	0.2168	0.7777	0.0144	1.0419	0.7608	0.8289	0.9764	0.8269	0.8067	0.8385	1.0249
50670001	1.1813	0.0143	0.5	0.7633	0.4856	1.0333	3.1002	2.871	0.2935	0.9614	0.0145	1.0599	0.7474	0.8123	0.9796	0.8085	0.8021	0.8138	1.0161
51150003	0.934	0.0061	0.5	0.7144	0.3143	0.8167	5.3872	2.3785	0.1744	0.7804	0.0062	1.052	0.7785	0.8297	0.9733	0.8297	0.8016	0.8356	1.0228
51190007	0.954	0.0143	0.5	0.9237	0.496	0.8528	4.7095	2.5028	0.2051	0.788	0.0147	1.046	0.7609	0.821	0.9756	0.8169	0.8035	0.8261	1.0272
51310008	0.9032	0	0.5	0.6586	0.2567	0.8136	5.0723	2.2855	0.2166	0.767	0	1.046	0.7769	0.8478	0.9801	0.8443	0.8142	0.8492	1
51450001	0.8613	0.0143	0.5	0.5251	0.2674	0.7597	5.0445	2.1118	0.2242	0.7002	0.0145	1.057	0.761	0.8146	0.9774	0.8123	0.8034	0.813	1.0138
90010010	1.1253	0.0414	0.5	0.4518	0.6092	1.1359	4.05	2.9657	0.5153	0.9764	0.0426	1.06	0.746	0.8785	0.9707	0.8657	0.9458	0.8677	1.0285
90011123	1.0865	0.0294	0.5	0.4202	0.5282	1.0536	4.186	2.8019	0.4352	0.9244	0.0304	1.0428	0.7693	0.8634	0.9716	0.8515	0.9455	0.8508	1.0364
90013005	1.1714	0.0494	0.5	0.5054	0.6637	1.1917	3.1707	3.0077	0.592	1.0111	0.0509	1.0603	0.7403	0.8786	0.9734	0.8649	0.948	0.8631	1.0322
90019003	1.0976	0.0446	0.5	0.4595	0.6098	1.0943	2.5986	2.8174	0.503	0.9442	0.046	1.0601	0.7386	0.8774	0.9744	0.8633	0.9475	0.8602	1.0311
90031003	0.8248	0.0191	0.5	0.3106	0.355	0.8035	3.8689	2.3291	0.2734	0.706	0.0197	1.031	0.7741	0.8639	0.9638	0.8491	0.9327	0.8559	1.0325
90050005	0.806	0.0052	0.5	0.3141	0.2365	0.6915	1.9704	2.098	0.0872	0.6831	0.0055	1.0387	0.811	0.8482	0.9729	0.842	0.9435	0.8475	1.0456
90090026	1.154	0.0308	0.5	0.4324	0.6546	1.1587	3.2231	3.1081	0.4512	1.0089	0.0315	1.0576	0.766	0.8843	0.9684	0.8756	0.9447	0.8742	1.0232
90090027	1.1285	0.0281	0.5	0.4154	0.6192	1.1137	3.5076	3.0245	0.3925	0.982	0.0287	1.0553	0.7536	0.8804	0.9662	0.8704	0.9389	0.8702	1.0216
90091123	1.1201	0.045	0.5	0.4396	0.6362	1.1543	3.7485	2.9849	0.6073	0.9701	0.0464	1.0397	0.7608	0.8757	0.9626	0.8631	0.9362	0.8661	1.0299
90092008	1.1074	0.0363	0.5	0.4239	0.6235	1.123	2.4779	2.9585	0.5236	0.9591	0.0374	1.04	0.7601	0.876	0.9627	0.8627	0.9355	0.8661	1.0286
90092123	1.0061	0.0267	0.5	0.3858	0.4995	0.993	4.4468	2.6653	0.4091	0.8653	0.0276	1.0332	0.7757	0.8669	0.9625	0.8571	0.938	0.86	1.0312
90113002	0.8696	0.0606	0.5	0.3316	0.4197	0.8573	3.5406	2.4135	0.3314	0.7404	0.0627	1.041	0.8104	0.8603	0.9691	0.8483	0.9343	0.8514	1.0334
100010002	1.2946	0.0303	0.5	0.3397	0.3074	1.2133	3.0207	3.094	0.6183	1.0214	0.0311	1.0797	0.76	0.8045	0.9762	0.7879	0.8884	0.7889	1.0276
100010003	1.3049	0.0282	0.5	0.3153	0.2826	1.2432	3	3.1655	0.635	1.0508	0.0287	1.0795	0.7598	0.8209	0.9755	0.8039	0.9129	0.8053	1.0188
100031003	1.4188	0.0666	0.5	0.8313	0.497	1.4333	2.5828	3.3902	0.8549	1.1579	0.0693	1.0767	0.7286	0.8344	0.9674	0.8175	0.9061	0.8161	1.0396
100031007	1.3438	0.0535	0.5	0.5925	0.4028	1.3313	2.2922	3.0698	0.8342	1.0577	0.0557	1.0765	0.7421	0.81	0.9747	0.7891	0.9044	0.7871	1.0412
100031012	1.4187	0.0574	0.5	0.5807	0.4107	1.4765	2.6516	3.2783	1.0312	1.1304	0.0598	1.0773	0.7321	0.8148	0.9726	0.7968	0.9004	0.7967	1.0413
100032004	1.4797	0.0801	0.5	0.9375	0.5357	1.5286	3.219	3.539	0.9292	1.2079	0.0833	1.0769	0.7289	0.8341	0.9675	0.8176	0.9078	0.8163	1.0404
100051002	1.318	0.0296	0.5	0.4249	0.3939	1.2096	3.6259	3.2055	0.5398	1.0347	0.0306	1.0762	0.7674	0.7953	0.977	0.7816	0.86	0.7851	1.0323
110010041	1.3447	0.0231	0.5	0.5872	0.501	1.1933	3.3208	3.21	0.5215	0.9998	0.024	1.0821	0.6812	0.7662	0.9709	0.7404	0.9373	0.7435	1.0372
110010042	1.3219	0	0.5	0.7618	0.6757	1.1467	3.3494	3.0903	0.4478	0.9843	0	1.082	0.6805	0.7659	0.9707	0.7421	0.9352	0.7446	1
110010043	1.388	0.0339	0.5	0.4917	0.4074	1.2409	2.8599	3.255	0.5766	1.031	0.0351	1.0814	0.6819	0.7703	0.9708	0.7416	0.9372	0.7428	1.0369
131390003	1.2331	0.005	0.5	0.4946	0.4023	0.9204	4.6796	2.8275	0.098	0.883	0.0052	1.0505	0.7289	0.7144	0.9679	0.7035	0.7685	0.7161	1.0376
170190004	1.1752	0	0.5	0.5558	0.294	1.2494	2.9482	2.7105	0.9978	0.9436	0	1.0659	0.6637	0.818	0.9743	0.8115	0.8343	0.8029	1
170191001	1.1826	0	0.5	0.5611	0.292	1.2499	2.9511	2.7164	0.9972	0.9478	0	1.0656	0.6697	0.8164	0.9753	0.8099	0.8371	0.8015	1
170310022	1.1639	0.0795	0.5	0.6718	0.5236	1.3925	4.188	2.9161	1.2424	1.0251	0.082	1.0557	0.6305	0.883	0.9688	0.8907	0.8573	0.8808	1.0304
170310050	1.0824	0.0694	0.5	0.614	0.4729	1.2638	4.1297	2.6646	1.0865	0.9357	0.0714	1.0572	0.6161	0.8698	0.9592	0.8726	0.8497	0.8645	1.0282
170310052	1.0243	0.0626	0.5	0.6199	0.4356	1.2053	5.1029	2.4768	1.3195	0.8722	0.0642	1.0691	0.6412	0.8571	0.9527	0.8604	0.8459	0.8515	1.0257
170310057	1.0663	0.0727	0.5	0.6589	0.4577	1.2417	4.2743	2.5564	1.3764	0.8995	0.0743	1.0674	0.6356	0.8488	0.9522	0.8505	0.8411	0.8435	1.0224
170310076	1.0076	0.0512	0.5	0.4897	0.3843	1.1319	5.1217	2.4442	0.8294	0.8514	0.0527	1.0661	0.6065	0.8511	0.9492	0.8517	0.8488	0.845	1.0291
170312001	1.0455	0.0479	0.5	0.5192	0.3903	1.2022	4.8276	2.5356	0.9789	0.8859	0.0493	1.0666	0.6048	0.8525	0.9515	0.8542	0.851	0.8474	1.0284
170313301	1.0202	0.0486	0.5	0.5114	0.3888	1.152	5.2121	2.4538	0.948	0.8636	0.05	1.0659	0.6063	0.8517	0.9495	0.8518	0.8465	0.8465	1.0284
170314007	1.0683	0.0259	0.5	0.4963	0.3793	1.2876	2.9171	2.579	1.3908	0.9115	0.0267	1.0728	0.654	0.8605	0.9579	0.8629	0.8504	0.8532	1.0294
170314201	1.0785	0.0169	0.5	0.4688	0.3658	1.2836	2.9294	2.5859	1.3372	0.9146	0.0174	1.0733	0.6538	0.8591	0.958	0.8608	0.8513	0.848	1.0341
170434002	1.0478	0.019	0.5	0.4213	0.3107	1.2855	3.9069	2.4865	1.3776	0.8876	0.0195	1.064	0.5974	0.8577	0.9555	0.8589	0.8542	0.8471	1.0266
170650002	1.3601	0.0083	0.5	0.5596	0.3279	1.2944	2.94	3.1739	0.7401	1.0736	0.0086	1.0901	0.7111	0.8036	0.9784	0.7917	0.8468	0.7894	1.0322
170831001	1.1975	0.0165	0.5	0.5544	0.3001	1.2628	2.7228	2.8452	0.9542	0.9691	0.017	1.0757	0.6899	0.8221	0.9707	0.8141	0.8441	0.8093	1.0282
170890003	1.0452	0.0292	0.5	0.4809	0.3307	1.245	3.246	2.4662	1.3674	0.8802	0.03	1.0599	0.612	0.8528	0.9567	0.853	0.8508	0.8422	1.0246
170890007	0.9976	0.0188	0.5	0.4043	0.2972	1.2178	4.208	2.3486	1.328	0.8389	0.0193	1.0583	0.6072	0.8558	0.958	0.8562	0.8538	0.8409	1.0268
170971007	0.9853	0.0101	0.5	0.3206	0.2333	1.1863	2.5184	2.5166	1.3316	0.8372	0.0104	1.0851	0.6545	0.856	0.9672	0.8528	0.8614	0.8497	1.033
171110001	1.0152	0.019	0.5	0.4386	0.295	1.2218	2.7819	2.4107	1.377	0.8566	0.0195	1.0612	0.6268	0.8557	0.96	0.8569	0.8557	0.8439	1.0275
171132003	1.1251	0.0167	0.5	0.5399	0.28	1.2478	2.8595	2.6203	1.1031	0.9187	0.0172	1.0704	0.6645	0.8296	0.9747	0.8272	0.8326	0.8166	1.0253
171150013	1.2742	0.0122	0.5	0.6018	0.2797	1.3969	3.1475	2.9334	1.2337	1.0325	0.0125	1.0647	0.6751	0.8241	0.9814	0.8202	0.8363	0.8103	1.0221
171191007	1.2158	0.0152	0.5	0.5552	0.2863	1.2568	6.5594	2.9461	0.8894	0.9923	0.0155	1.0693	0.639	0.8257	0.9607	0.8186	0.8376	0.8162	1.02
171192009	1.3173	0.0191	0.5	0.5903	0.3125	1.3993	3.7537	3.1336	1.0412	1.0703	0.0197	1.0732	0.666	0.8259	0.97	0.818	0.8446	0.8125	1.0302
171193007	1.2463	0.0184	0.5	0.5527	0.2941	1.3074	3.9845	2.9509	0.9589	1.0063	0.019	1.0738	0.6656	0.8246	0.971	0.8142	0.8444	0.8074	1.0293
171430037	1.0851	0.0262	0.5	0.5191	0.2624	1.2253	3.7262	2.5572	1.1005	0.9009	0.0269	1.0816	0.6773	0.8438	0.9773	0.8448	0.8337	0.8302	1.0248

MATS 2.3.1 - Ouput File - Annual PM-2.5
2018 Business As Usual Scenario

Year																			
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
171570001	1.1535	0.0115	0.5	0.5858	0.2829	1.124	3.5608	2.8313	0.6955	0.9193	0.0118	1.0951	0.7083	0.8086	0.9761	0.7965	0.8463	0.7969	1.0237
171613002	1.0668	0.0892	0.5	0.5139	0.2378	1.2212	2.7598	2.4593	1.1994	0.8854	0.0912	1.0471	0.6732	0.8429	0.9631	0.8475	0.8286	0.83	1.0232
171630010	1.1087	0.0137	0.5	0.5508	0.2836	1.1381	5.6849	2.7782	0.7803	0.9057	0.014	1.0691	0.6386	0.8233	0.9592	0.8174	0.8342	0.8169	1.0208
171634001	1.1148	0.0126	0.5	0.5512	0.2849	1.1245	4.6466	2.7609	0.7623	0.8982	0.0129	1.0792	0.6584	0.8167	0.9662	0.8066	0.8394	0.8057	1.0218
171670012	1.1657	0.0169	0.5	0.5562	0.2643	1.2447	3.1491	2.6625	1.0513	0.9355	0.0174	1.0881	0.677	0.8144	0.9796	0.8107	0.8281	0.8026	1.0262
171971002	1.1195	0.0312	0.5	0.5061	0.361	1.3274	3.7597	2.6872	1.2622	0.9515	0.032	1.0706	0.6034	0.8587	0.9565	0.8603	0.8581	0.85	1.0273
171971011	1.0613	0.0555	0.5	0.5595	0.4467	1.2	2.2135	2.5142	1.0429	0.8856	0.0571	1.0631	0.6601	0.8462	0.9697	0.8421	0.8532	0.8345	1.0278
172010013	0.8913	0.0266	0.5	0.444	0.2603	1.0834	4.237	2.0963	1.2566	0.7509	0.0272	1.0511	0.6612	0.8531	0.9657	0.8571	0.8466	0.8425	1.0256
180030004	1.0962	0.0234	0.5	0.4509	0.2795	1.2355	3.7022	2.5124	1.3322	0.9041	0.0241	1.0453	0.6656	0.8405	0.9696	0.8414	0.8413	0.8248	1.032
180190006	1.5882	0.0141	0.5	0.611	0.4479	1.4624	4.5196	3.6509	0.6908	1.2399	0.0146	1.0844	0.6851	0.7962	0.971	0.7828	0.8633	0.7807	1.0355
180350006	1.3074	0.0083	0.5	0.3773	0.2405	1.344	3.1708	3.0995	0.9205	1.0679	0.0086	1.0544	0.6773	0.8296	0.973	0.8245	0.8448	0.8168	1.0334
180370005	1.7714	0.0157	0.5	0.4373	0.332	1.7525	2.1938	4.0934	0.9502	1.4194	0.0162	1.1257	0.7314	0.8116	0.9911	0.8086	0.818	0.8013	1.0341
180431004	1.5817	0.0125	0.5	0.6153	0.4479	1.4143	3.1732	3.5671	0.5898	1.2349	0.0129	1.0867	0.7003	0.7952	0.9751	0.7837	0.8643	0.7808	1.0343
180670003	1.2705	0.0291	0.5	0.4521	0.3535	1.3579	3.0959	3.0091	1.0785	1.0454	0.0301	1.0517	0.6809	0.8336	0.9778	0.8318	0.8382	0.8228	1.0331
180830004	1.4887	0.0092	0.5	0.4753	0.3182	1.457	2.9144	3.455	0.8132	1.1947	0.0095	1.132	0.714	0.8109	0.9953	0.8068	0.8246	0.8025	1.0281
180890006	1.2083	0.0825	0.5	0.735	0.5618	1.4638	3.0718	3.0281	1.3566	1.0634	0.0849	1.0553	0.6305	0.8819	0.9707	0.8918	0.8554	0.8801	1.0289
180890027	1.1723	0.0737	0.5	0.7025	0.5337	1.4019	2.6584	2.9101	1.2907	1.0231	0.0757	1.0566	0.634	0.8773	0.9728	0.8843	0.8547	0.8727	1.0271
180890031	1.1414	0.179	0.5	0.9085	0.8837	1.3547	3.1678	2.9311	1.0882	1.0123	0.1854	1.0553	0.6546	0.8859	0.9792	0.8956	0.8565	0.8869	1.0359
180892004	1.1935	0.0456	0.5	0.6577	0.4421	1.4342	3.0439	2.9566	1.3462	1.0472	0.0465	1.0552	0.6295	0.8826	0.9712	0.8901	0.8553	0.8774	1.0211
180892010	1.2001	0.0797	0.5	0.7118	0.5492	1.4228	3.066	3	1.2466	1.0545	0.082	1.0553	0.63	0.8813	0.9707	0.8893	0.855	0.8787	1.0297
180910011	1.04	0.1066	0.5	0.6792	0.6418	1.1811	2.6971	2.5276	1.0725	0.8833	0.111	1.0754	0.6864	0.8605	0.9806	0.8592	0.8566	0.8494	1.0414
180950009	1.332	0.0085	0.5	0.3774	0.2367	1.3784	3.2896	3.1657	0.9604	1.091	0.0088	1.0535	0.661	0.8291	0.9716	0.8234	0.8474	0.819	1.0345
180970078	1.5415	0.0138	0.5	0.4823	0.4073	1.5819	3.5214	3.6847	1.0304	1.275	0.0141	1.0579	0.6494	0.8354	0.9712	0.8306	0.8485	0.8271	1.0242
180970081	1.4956	0.0099	0.5	0.4699	0.4015	1.5444	4.1435	3.5834	1.0229	1.2377	0.0102	1.0578	0.6498	0.8371	0.9716	0.8321	0.8486	0.8276	1.0354
180970083	1.4915	0.0097	0.5	0.4643	0.3935	1.5286	3.9582	3.5627	0.9952	1.2322	0.0101	1.0578	0.6495	0.8359	0.9711	0.8305	0.8487	0.8261	1.0357
181270024	1.082	0.1612	0.5	0.8634	0.8569	1.2362	2.626	2.7254	0.9561	0.9432	0.1673	1.0643	0.6665	0.8732	0.9789	0.8788	0.8561	0.8717	1.0381
181410014	0.9119	0.0357	0.5	0.4028	0.329	1.098	4.2979	2.1619	1.2769	0.7684	0.0369	1.0488	0.6895	0.8538	0.9735	0.863	0.8437	0.8427	1.0346
181470009	1.6631	0.0119	0.5	0.4289	0.319	1.5518	2.351	3.7777	0.7446	1.3086	0.0123	1.1262	0.7227	0.7992	0.9882	0.7922	0.8272	0.7869	1.0335
181570008	1.2473	0.0457	0.5	0.5455	0.4446	1.3403	2.7224	2.9489	1.0644	1.0206	0.0473	1.0592	0.6824	0.8301	0.978	0.8269	0.8346	0.8183	1.036
181630006	1.3305	0.0183	0.5	0.4439	0.3152	1.2776	4.3469	3.1611	0.6699	1.0644	0.0186	1.1085	0.707	0.8108	0.9895	0.8038	0.8323	0.8	1.0145
181630012	1.3377	0.018	0.5	0.4506	0.3206	1.2957	4.4968	3.1936	0.6877	1.076	0.0183	1.1048	0.7011	0.8133	0.9884	0.8039	0.8328	0.8044	1.0151
181630016	1.3235	0.0183	0.5	0.44	0.3122	1.2723	4.6077	3.1543	0.6578	1.0628	0.0186	1.1084	0.7069	0.8116	0.9894	0.8031	0.8322	0.803	1.0148
181670018	1.4215	0.0098	0.5	0.5136	0.3378	1.4163	3.2797	3.2493	0.9363	1.1253	0.0101	1.0935	0.709	0.8054	0.9868	0.7961	0.8378	0.7916	1.0332
181670023	1.438	0.0092	0.5	0.5149	0.3391	1.424	2.692	3.2765	0.9294	1.1353	0.0095	1.0934	0.709	0.8046	0.9872	0.7959	0.8382	0.7895	1.0323
190130008	0.9316	0.0304	0.5	0.4838	0.2157	1.1022	3.128	2.1113	1.2779	0.7687	0.0309	1.0366	0.6842	0.8329	0.9541	0.8437	0.8095	0.8251	1.0167
190450021	1.025	0.065	0.5	0.5008	0.2414	1.1759	3.4846	2.3497	1.1959	0.8462	0.0664	1.0501	0.6885	0.838	0.965	0.843	0.8242	0.8256	1.0227
191032001	0.9443	0.0388	0.5	0.4496	0.1957	1.1267	3.4928	2.1629	1.2906	0.7849	0.0396	1.0444	0.6801	0.8392	0.9654	0.8526	0.8136	0.8311	1.0204
191130037	0.9761	0.0333	0.5	0.45	0.1944	1.1643	2.3922	2.2256	1.3611	0.808	0.0339	1.0404	0.6821	0.8382	0.9645	0.8495	0.8128	0.8278	1.0194
191370002	0.7932	0	0.5	0.6772	0.2457	0.899	2.7742	1.8459	0.9229	0.6522	0	1.0567	0.7026	0.8329	0.9738	0.838	0.8165	0.8222	1
191390015	1.0955	0.0717	0.5	0.5282	0.2441	1.2737	4.1194	2.5201	1.3248	0.9086	0.0734	1.0533	0.6915	0.8428	0.9688	0.8489	0.8256	0.8294	1.0236
191471002	0.7033	0.013	0.5	0.5484	0.2102	0.8264	2.7796	1.5874	0.9581	0.5758	0.0132	1.031	0.6854	0.8244	0.9647	0.8369	0.8025	0.8186	1.0144
191530030	0.8808	0.0311	0.5	0.5559	0.2151	1.0156	2.7184	1.9808	1.1201	0.7312	0.0316	1.0341	0.6464	0.8401	0.9543	0.8523	0.8144	0.8302	1.017
191532510	0.8838	0.0327	0.5	0.562	0.2187	1.011	2.4407	1.9854	1.0985	0.7316	0.0333	1.0347	0.6484	0.839	0.9568	0.8477	0.814	0.8277	1.0173
191550009	0.8232	0.0155	0.5	0.9602	0.3752	1.0629	3.4491	2.2585	1.0048	0.7759	0.0157	1.1991	0.8014	0.9313	0.9831	0.9773	0.8203	0.9426	1.0149
191630015	1.1134	0.0927	0.5	0.5267	0.2455	1.2832	2.8502	2.5732	1.273	0.9258	0.0949	1.0478	0.6732	0.8421	0.9635	0.8463	0.8289	0.8315	1.0237
191630018	1.0988	0.0932	0.5	0.5227	0.2455	1.2748	2.6342	2.5415	1.2819	0.9125	0.0954	1.0477	0.6734	0.8423	0.9647	0.8474	0.8284	0.8305	1.0236
191630019	1.0745	0.1001	0.5	0.5084	0.2409	1.2629	5.153	2.4922	1.301	0.8954	0.1024	1.0474	0.6739	0.8446	0.9649	0.8505	0.8293	0.8333	1.0234
191770006	0.7389	0	0.5	0.4662	0.187	0.8795	3.6662	1.6825	1.0014	0.6052	0	1.0532	0.7036	0.828	0.9709	0.8358	0.8104	0.819	1
191930017	0.6794	0	0.5	0.6745	0.2	0.8052	4.1786	1.6099	0.8501	0.5748	0	1.0461	0.6884	0.8499	0.9706	0.8644	0.8177	0.846	1
191970004	0.7945	0.0217	0.5	0.5083	0.2173	0.9348	2.9385	1.7929	1.0873	0.6536	0.022	1.0327	0.6836	0.8297	0.9618	0.8419	0.8035	0.8226	1.0144
200910007	0.7869	0.019	0.5	0.612	0.332	0.8481	3.016	1.961	0.6912	0.6541	0.0193	1.0466	0.6638	0.8401	0.965	0.8392	0.8273	0.8313	1.0152
200910010	0.7589	0.0176	0.5	0.5754	0.2982	0.7997	2.71	1.8563	0.6335	0.6234	0.0179	1.0485	0.6816	0.834	0.9685	0.8303	0.8288	0.8214	1.0154
201070002	0.8869	0.0074	0.5	0.8823	0.3085	0.896	3.0083	2.1679	0.5901	0.7268	0.0076	1.0629	0.7521	0.8287	0.9815	0.8252	0.8256	0.8194	1.0238
201730008	0.8522	0.0202	0.5	0.5331	0.22	0.8421	3.1803	2.0195	0.5228	0.7188	0.0202	1.0177	0.7587	0.8462	0.9776	0.8504	0.8123	0.8435	1.0034
201730009	0.8446	0.0196	0.5	0.5314	0.2187	0.8303	3.1185	1.9995	0.5049	0.7112	0.0197	1.0177	0.7585	0.846	0.9772	0.8502	0.8125	0.8421	1.0034
201730010	0.8426	0.0197	0.5	0.5262	0.2191	0.8322	3.2892	1.991	0.5193	0.7083	0.0198	1.0174	0.7585	0.8465	0.9772	0.8514	0.8124	0.8407	1.0037
201910002	0.8199	0.0169	0.5	0.6315	0.2288	0.8067	2.8777	1.9478	0.4876	0.6876	0.0169	1.0214	0.786	0.8421	0.9833	0.8455	0.8121	0.8386	1.0045

MATS 2.3.1 - Ouput File - Annual PM-2.5
2018 Business As Usual Scenario

Year																			
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
202090021	0.8208	0.0221	0.5	0.6739	0.3999	0.899	4.0806	2.0857	0.7377	0.6892	0.0225	1.0498	0.6916	0.8416	0.9661	0.8458	0.8262	0.8397	1.0155
202090022	0.7986	0.0197	0.5	0.6412	0.358	0.8635	3.1715	2.0153	0.6902	0.6687	0.02	1.048	0.6641	0.8414	0.9647	0.8428	0.8262	0.8373	1.0148
210130002	1.3846	0.0133	0.5	0.5784	0.5496	1.0485	4.4961	3.182	0.1686	1.0011	0.0137	1.0915	0.7568	0.7292	0.9725	0.7158	0.9165	0.723	1.0252
210190017	1.5062	0.0129	0.5	0.4542	0.4884	1.2199	3.4906	3.5945	0.2784	1.1274	0.0132	1.0891	0.7792	0.7562	0.983	0.7397	0.9371	0.7485	1.0226
210290006	1.6235	0.0128	0.5	0.6241	0.4611	1.4412	3.3538	3.6293	0.6251	1.2469	0.0132	1.1041	0.7157	0.7843	0.9756	0.7713	0.8604	0.7681	1.0332
210430500	1.2844	0.011	0.5	0.4624	0.4555	1.0127	2.8548	3.0348	0.2154	0.9366	0.0112	1.1242	0.7642	0.7388	0.9805	0.7225	0.9316	0.7293	1.0205
210470006	1.503	0.0048	0.5	0.6029	0.3703	1.3061	3.0299	3.5708	0.4254	1.1853	0.0051	1.122	0.7203	0.794	0.9813	0.7869	0.8265	0.7886	1.0536
210590005	1.6597	0.0026	0.5	0.373	0.2954	1.5191	2.5145	3.934	0.607	1.3019	0.0028	1.1651	0.7338	0.796	0.9917	0.7838	0.8371	0.7844	1.0727
210670012	1.603	0.0109	0.5	0.4377	0.3569	1.4216	2.9949	3.4425	0.7326	1.19	0.0114	1.1107	0.7001	0.7641	0.976	0.7483	0.8626	0.7424	1.0433
210670014	1.5329	0.0084	0.5	0.4245	0.3447	1.3569	3.3728	3.294	0.6907	1.1392	0.0087	1.1107	0.6998	0.7627	0.9751	0.7476	0.8626	0.7432	1.0324
210730006	1.5462	0.01	0.5	0.4508	0.3736	1.3565	2.465	3.3443	0.6563	1.1536	0.0104	1.1122	0.716	0.7673	0.9792	0.7505	0.8638	0.7461	1.0423
210930006	1.6353	0.005	0.5	0.5891	0.4211	1.4016	2.7438	3.5889	0.5549	1.2337	0.0053	1.1087	0.7215	0.7702	0.9781	0.7567	0.8454	0.7544	1.0568
211010014	1.4523	0.0134	0.5	0.4692	0.3208	1.3686	3.4858	3.4146	0.6803	1.1536	0.0136	1.1145	0.7121	0.8047	0.9904	0.7952	0.8349	0.7943	1.0193
211110043	1.6084	0.0133	0.5	0.6396	0.4542	1.4081	3.915	3.5623	0.5432	1.2469	0.0137	1.0893	0.6983	0.7905	0.9726	0.7802	0.8614	0.7752	1.0346
211110044	1.6208	0.0135	0.5	0.6355	0.4497	1.4455	3.7668	3.6347	0.6181	1.2554	0.0139	1.0859	0.6851	0.7906	0.9693	0.7774	0.8592	0.7746	1.0341
211110048	1.5864	0.0131	0.5	0.6031	0.4499	1.4817	3.2282	3.6755	0.7426	1.2351	0.0135	1.0859	0.6844	0.7944	0.9705	0.7794	0.8583	0.7786	1.0341
211110051	1.6641	0.0128	0.5	0.6368	0.4589	1.4893	3.0205	3.741	0.6435	1.291	0.0132	1.1017	0.7071	0.7901	0.9748	0.7783	0.8592	0.7758	1.0342
211170007	1.5	0.0152	0.5	0.4466	0.4602	1.4096	2.8424	3.5533	0.7406	1.1768	0.0157	1.115	0.7052	0.8035	0.9745	0.7859	0.8791	0.7845	1.0273
211451004	1.4597	0.0074	0.5	0.4747	0.3729	1.3043	3.4942	3.4459	0.5231	1.157	0.0078	1.0887	0.725	0.8014	0.9781	0.7913	0.8385	0.7926	1.0561
211510003	1.43	0.0096	0.5	0.4315	0.3899	1.2002	2.7266	3.0801	0.5276	1.0471	0.01	1.1216	0.7295	0.7538	0.9784	0.7345	0.8785	0.7322	1.0425
211830032	1.592	0.0054	0.5	0.5117	0.35	1.4425	2.8168	3.7346	0.573	1.2662	0.0057	1.1442	0.746	0.8018	0.9866	0.7948	0.8355	0.7953	1.0527
211950002	1.4425	0.0122	0.5	0.5144	0.6228	1.0784	3.2584	3.1996	0.1838	1.0447	0.0124	1.0844	0.7891	0.7341	0.977	0.7189	0.9445	0.7242	1.0197
230010011	0.4405	0.0074	0.5	0.2047	0.2486	0.4299	4.994	1.4575	0.0532	0.3959	0.0075	1.0065	0.8648	0.8985	0.9707	0.8938	0.9295	0.8987	1.0191
230050015	0.4583	0.0215	0.5	0.2164	0.2809	0.4611	5.8142	1.595	0.0717	0.4121	0.0219	1.0151	0.8374	0.9093	0.9666	0.9012	0.9662	0.8992	1.0166
230090103	0.4215	0.0184	0.5	0.1711	0.157	0.4114	1.7981	1.3764	0.0332	0.3898	0.0186	1.0206	0.8803	0.9248	0.9696	0.9251	0.9847	0.9248	1.0076
230110016	0.4432	0.0097	0.5	0.2108	0.2455	0.4302	4.9288	1.4408	0.0568	0.3964	0.0098	1.0062	0.8546	0.8954	0.9621	0.8915	0.9406	0.8944	1.0171
230172011	0.4305	0.0052	0.5	0.2108	0.2129	0.417	5.6374	1.4255	0.0494	0.3824	0.0053	1.0176	0.8681	0.8834	0.9632	0.8748	0.9347	0.8881	1.0189
230190002	0.5543	0.0077	0.5	0.3607	0.3901	0.5358	3.6783	1.7343	0.0734	0.5052	0.0078	1.0048	0.867	0.9097	0.9528	0.9029	0.9639	0.9113	1.016
240031003	1.2155	0.0189	0.5	0.5189	0.4778	1.1629	4.188	3.1528	0.5985	0.9564	0.0196	1.0778	0.7311	0.8082	0.9739	0.7828	0.9536	0.7868	1.0399
240051007	1.4231	0.0261	0.5	0.5198	0.5119	1.3068	2.775	3.2218	0.7189	1.0845	0.0274	1.0795	0.7246	0.7916	0.9747	0.7648	0.9404	0.7621	1.0465
240053001	1.4823	0.0284	0.5	0.4778	0.517	1.3695	3.7133	3.4148	0.6271	1.1638	0.0295	1.066	0.7364	0.813	0.9747	0.79	0.9526	0.7851	1.0392
240150003	1.3884	0.0501	0.5	0.487	0.3745	1.4188	2.203	3.1345	0.9955	1.0829	0.0522	1.0754	0.735	0.8042	0.9723	0.782	0.8961	0.7799	1.0418
240251001	1.3828	0.028	0.5	0.451	0.4415	1.2575	2.4311	3.0709	0.6299	1.0581	0.0292	1.0747	0.7473	0.7912	0.9765	0.7678	0.9462	0.7651	1.0439
240313001	1.1422	0.0224	0.5	0.538	0.4567	1.0548	2.494	3.0117	0.4731	0.8552	0.0234	1.0828	0.7062	0.77	0.9754	0.7411	0.9511	0.7487	1.0449
240330030	1.083	0.0294	0.5	0.4904	0.3668	0.9597	3.1188	3.1062	0.3769	0.8147	0.0308	1.088	0.7125	0.7755	0.9748	0.7433	0.9571	0.7523	1.0472
240338003	1.2222	0.023	0.5	0.5693	0.502	1.1298	2.611	3.1475	0.544	0.9162	0.0239	1.0903	0.7212	0.7724	0.9765	0.7407	0.964	0.7497	1.0364
240430009	1.2885	0.0197	0.5	0.4056	0.3735	1.136	3.2998	2.9499	0.5827	0.9463	0.0205	1.0902	0.7676	0.7606	0.9808	0.7315	0.9155	0.7344	1.044
245100006	1.4146	0.0235	0.5	0.498	0.5076	1.2971	3.2271	3.2675	0.6051	1.1069	0.0244	1.0657	0.7218	0.8103	0.9739	0.7876	0.9453	0.7825	1.0407
245100007	1.329	0.0125	0.5	0.5403	0.5176	1.2006	3.5585	3.1366	0.5495	1.0293	0.013	1.0739	0.7156	0.7962	0.9727	0.775	0.9414	0.7745	1.0429
245100008	1.4031	0.0262	0.5	0.4806	0.4907	1.2877	4.5603	3.2422	0.5826	1.1032	0.0273	1.0712	0.7272	0.8101	0.9731	0.7898	0.9466	0.7863	1.0407
250035001	0.7271	0.0064	0.5	0.2766	0.2567	0.67	4.4228	2.0598	0.1499	0.6173	0.0067	1.0415	0.8356	0.8521	0.9819	0.8433	0.938	0.849	1.0433
250051004	0.7795	0.1044	0.5	0.3341	0.3588	0.7655	2.6468	2.3137	0.2519	0.6629	0.1077	1.0884	0.7985	0.8558	0.9679	0.8447	0.9616	0.8504	1.0312
250092006	0.8664	0.0799	0.5	0.352	0.4574	0.8558	2.4165	2.3591	0.3081	0.7643	0.0819	1.0252	0.8116	0.8869	0.9654	0.8801	0.9402	0.8822	1.0255
250095005	0.6912	0.0688	0.5	0.3064	0.4175	0.7174	2.8559	2.2238	0.2586	0.607	0.0707	1.0152	0.8288	0.8831	0.9679	0.8719	0.9451	0.8782	1.0271
250096001	0.7281	0.0663	0.5	0.3161	0.4281	0.7456	3.1892	2.2511	0.2667	0.6369	0.0681	1.0138	0.8206	0.8805	0.9678	0.8696	0.936	0.8748	1.0268
250130008	0.7985	0.0147	0.5	0.2389	0.3207	0.7891	3.2679	2.3662	0.2721	0.6827	0.0152	1.0239	0.8158	0.8642	0.967	0.8517	0.9366	0.855	1.0311
250130016	0.7952	0.0163	0.5	0.2562	0.3208	0.7824	5.3229	2.3549	0.2564	0.6828	0.0168	1.0243	0.8063	0.8591	0.9642	0.8496	0.9332	0.8587	1.0302
250132009	0.788	0.0155	0.5	0.2485	0.312	0.7715	5.0948	2.3184	0.2545	0.6732	0.0159	1.0243	0.8066	0.8613	0.9644	0.8498	0.9333	0.8543	1.0298
250170009	0.7297	0.063	0.5	0.315	0.4276	0.7489	2.716	2.2278	0.2776	0.6375	0.0649	1.0132	0.8197	0.8764	0.9662	0.8671	0.934	0.8736	1.0289
250230004	0.8685	0.1025	0.5	0.3448	0.4201	0.8264	2.8951	2.3352	0.2784	0.7426	0.1052	1.0331	0.8044	0.8638	0.961	0.8524	0.9441	0.8551	1.0262
250250002	0.8831	0.0747	0.5	0.3528	0.4636	0.8699	4.5912	2.325	0.3176	0.7781	0.0766	1.026	0.7967	0.8875	0.9586	0.8822	0.9302	0.8811	1.0258
250250027	0.929	0.0752	0.5	0.3729	0.4831	0.9136	4.3179	2.4421	0.3306	0.8192	0.0771	1.0259	0.7969	0.89	0.9567	0.8817	0.9304	0.8818	1.0262
250250042	0.8979	0.0726	0.5	0.3576	0.467	0.8838	3.4305	2.3554	0.3235	0.7914	0.0745	1.0258	0.7969	0.8881	0.9593	0.8821	0.9304	0.8814	1.0261
250250043	0.8506	0.0728	0.5	0.3401	0.4422	0.8389	5.0693	2.2479	0.3033	0.7525	0.0747	1.0261	0.7967	0.8861	0.9579	0.8815	0.9309	0.8846	1.0256
250270016	0.8274	0.0415	0.5	0.3249	0.3688	0.7964	3.8993	2.3726	0.2436	0.7075	0.043	1.0252	0.7899	0.8597	0.9584	0.849	0.9358	0.855	1.0372
250270023	0.8045	0.0426	0.5	0.3169	0.3543	0.7698	4.5259	2.2946	0.2341	0.6839	0.0441	1.0253	0.7895	0.8581	0.9576	0.8482	0.9356	0.8501	1.0349
260050003	1.1136	0.008	0.5	0.2582	0.2195	1.237	2.7356	2.7197	1.0891	0.9299	0.0084	1.0821	0.6954	0.8487	0.9754	0.8409	0.8574	0.8351	1.0456

MATS 2.3.1 - Ouput File - Annual PM-2.5
2018 Business As Usual Scenario

Year																			
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
260170014	0.8991	0.029	0.5	0.6121	0.2985	1.0089	2.2851	2.288	0.9321	0.7537	0.03	1.0559	0.7053	0.8545	0.9692	0.8399	0.8918	0.8383	1.0326
260210014	1.0448	0.0401	0.5	0.4817	0.3679	1.2245	2.2665	2.5113	1.2779	0.8791	0.0418	1.0769	0.694	0.8539	0.9763	0.849	0.8639	0.8413	1.0418
260490021	1.0459	0.0441	0.5	0.8756	0.3375	1.1463	1.9999	2.4916	1.0452	0.8565	0.0455	1.0623	0.6489	0.8385	0.9591	0.8236	0.8847	0.8189	1.0337
260650012	1.0553	0.027	0.5	0.6663	0.3416	1.1701	2.4062	2.4905	1.1174	0.8605	0.0279	1.0721	0.6637	0.8358	0.9642	0.8247	0.8614	0.8155	1.0345
260770008	1.0443	0.0208	0.5	0.7254	0.3525	1.2007	3.2173	2.6536	1.1871	0.8764	0.0215	1.0671	0.678	0.8489	0.9657	0.8452	0.8574	0.8392	1.0344
260810020	1.0445	0.0148	0.5	0.4267	0.3434	1.214	3.4073	2.4515	1.2048	0.8719	0.0153	1.0677	0.6277	0.849	0.9589	0.845	0.8576	0.8348	1.0312
260990009	1.0678	0.0671	0.5	1.2328	0.3728	1.1729	2.2013	2.5691	1.033	0.8794	0.0696	1.0812	0.642	0.8441	0.9601	0.8294	0.8916	0.8235	1.0363
261130001	0.5351	0.0033	0.5	0.1676	0.1324	0.6381	2.5526	1.692	0.5517	0.4507	0.0034	1.0594	0.7597	0.8521	0.9721	0.842	0.8865	0.8422	1.0404
261150005	1.178	0.0116	0.5	0.4312	0.3402	1.2594	3.6162	2.7729	0.9963	0.9604	0.012	1.0878	0.6719	0.8314	0.9652	0.8201	0.8638	0.8153	1.0405
261210040	1.0133	0.0127	0.5	0.3257	0.2859	1.1631	2.6329	2.4556	1.1195	0.8564	0.0132	1.0694	0.714	0.8539	0.9737	0.8497	0.8633	0.8452	1.0339
261250001	1.1388	0.0623	0.5	1.3132	0.4015	1.2556	2.3736	2.7258	1.0995	0.9442	0.0643	1.0697	0.6075	0.8457	0.9503	0.8372	0.8663	0.8291	1.0327
261390005	1.0448	0.0144	0.5	0.3795	0.2983	1.2079	3.2545	2.485	1.1875	0.8767	0.0149	1.0692	0.6366	0.8521	0.9627	0.8487	0.8522	0.8391	1.0308
261470005	1.1215	0.0623	0.5	1.1395	0.451	1.2223	2.5834	2.7235	1.0389	0.9262	0.0647	1.0813	0.7647	0.8472	0.9763	0.8293	0.9027	0.8258	1.0377
261610008	1.049	0.0284	0.5	0.2993	0.2833	1.1847	4.0826	2.4575	1.0825	0.858	0.0295	1.0709	0.6705	0.8369	0.9528	0.8257	0.8662	0.8179	1.0386
261630001	1.1389	0.0247	0.5	0.5548	0.4593	1.278	3.5602	2.6729	1.1403	0.9377	0.0256	1.0758	0.6796	0.8397	0.9568	0.8301	0.8715	0.8234	1.0352
261630015	1.2814	0.0824	0.5	1.8549	0.5031	1.3765	2.9098	3.0794	1.1544	1.0627	0.085	1.0745	0.6632	0.846	0.9579	0.8368	0.87	0.8293	1.0317
261630016	1.1895	0.0734	0.5	1.6436	0.4704	1.2976	2.6009	2.8691	1.1091	0.9902	0.0758	1.0744	0.6632	0.8471	0.959	0.8384	0.8694	0.8325	1.0329
261630019	1.1188	0.0761	0.5	1.5736	0.4114	1.2223	2.5506	2.7189	1.0407	0.9344	0.0785	1.0718	0.6336	0.8483	0.9555	0.8404	0.8681	0.8352	1.0319
261630025	1.1606	0.0501	0.5	0.9602	0.3784	1.2875	2.3474	2.7334	1.154	0.9506	0.0519	1.0714	0.6081	0.8386	0.9487	0.8263	0.8682	0.8191	1.0363
261630033	1.3402	0.0875	0.5	2.041	0.5299	1.4282	3.7431	3.231	1.1675	1.1128	0.0903	1.0744	0.6632	0.8449	0.9569	0.8355	0.8697	0.8303	1.0315
261630036	1.1659	0.0357	0.5	0.8188	0.4717	1.3006	3.0137	2.7461	1.1616	0.962	0.037	1.0791	0.6888	0.8445	0.9644	0.8314	0.8772	0.8251	1.0357
261630039	1.1936	0.0716	0.5	1.6224	0.4646	1.2825	2.8058	2.8517	1.0796	0.9877	0.0739	1.0748	0.6632	0.8432	0.9594	0.8363	0.8715	0.8275	1.0323
270370470	0.7306	0.0206	0.5	0.494	0.3227	0.9287	2.5481	1.8158	1.0989	0.6374	0.021	1.0244	0.6937	0.8703	0.9606	0.8875	0.8393	0.8724	1.0151
270530961	0.724	0.0216	0.5	0.4904	0.3179	0.9136	2.4218	1.8113	1.0403	0.6338	0.0219	1.0223	0.6877	0.8763	0.9571	0.895	0.8406	0.8754	1.0136
270530963	0.7504	0.0206	0.5	0.5018	0.3355	0.9666	2.6557	1.8848	1.1269	0.6599	0.0209	1.0216	0.6898	0.882	0.9556	0.9013	0.8426	0.8794	1.0134
270531007	0.7702	0.0198	0.5	0.5192	0.3394	0.9986	2.7591	1.9374	1.1873	0.6772	0.0201	1.0224	0.6847	0.8785	0.9564	0.8992	0.8468	0.8792	1.0166
271230866	0.6917	0.0246	0.5	0.4692	0.3039	0.8756	4.4746	1.7171	1.0567	0.6044	0.025	1.0259	0.6892	0.8727	0.9592	0.8894	0.8487	0.8738	1.0166
271230868	0.6961	0.0243	0.5	0.4767	0.3034	0.8753	4.246	1.7391	1.0294	0.6115	0.0247	1.0233	0.6883	0.8822	0.9557	0.8976	0.8484	0.8784	1.0164
271377001	0.3064	0.0014	0.5	0.2696	0.1251	0.3871	2.6726	1.007	0.3451	0.2744	0.0014	0.9545	0.8105	0.8967	0.9549	0.8946	0.9002	0.8956	1.0226
271377550	0.4204	0.0057	0.5	0.339	0.1594	0.5454	2.0889	1.2783	0.5852	0.3769	0.0059	1.0206	0.781	0.896	0.976	0.8982	0.8907	0.8964	1.0242
271377551	0.4271	0.0055	0.5	0.3443	0.1619	0.5573	3.3074	1.2922	0.6145	0.3819	0.0056	1.0205	0.7818	0.8947	0.9735	0.897	0.8885	0.8941	1.0232
271390505	0.7324	0.0203	0.5	0.5011	0.319	0.9075	2.4508	1.7932	1.0558	0.6275	0.0206	1.0238	0.6874	0.8619	0.962	0.8748	0.8348	0.8567	1.0146
271453052	0.5738	0.0142	0.5	0.4817	0.2359	0.7343	2.6983	1.499	0.9465	0.4929	0.0144	1.0262	0.7223	0.8635	0.967	0.8732	0.8461	0.859	1.0141
280330002	1.2	0.0158	0.5	0.7488	0.6413	1.0195	3.3022	2.9079	0.2252	0.9616	0.0161	1.0452	0.7192	0.8019	0.9678	0.7941	0.8315	0.8013	1.0243
290210005	0.7898	0.0089	0.5	0.6074	0.2631	0.8653	5.3776	1.9145	0.7562	0.6567	0.009	1.0584	0.7018	0.8408	0.9736	0.8394	0.8267	0.8315	1.0191
290370003	0.888	0.0173	0.5	0.6604	0.3426	0.9346	3.0315	2.1548	0.7458	0.7271	0.0176	1.0526	0.703	0.8288	0.9733	0.826	0.8265	0.8187	1.0192
290470005	0.9161	0.0123	0.5	0.471	0.1968	0.9593	3.5983	2.1604	0.7555	0.7504	0.0126	1.053	0.6803	0.829	0.9669	0.8292	0.8295	0.8191	1.0195
290770032	0.9338	0	0.5	0.7266	0.242	0.8733	4.1266	2.2982	0.3877	0.7689	0	1.0599	0.7266	0.8244	0.9628	0.8219	0.8185	0.8234	1
290950034	0.8663	0.0233	0.5	0.7041	0.3886	0.9539	4.3541	2.1877	0.8012	0.7255	0.0237	1.0512	0.655	0.8402	0.9637	0.8433	0.8248	0.8374	1.016
291860006	1.0881	0.0117	0.5	0.4878	0.2244	1.0327	4.305	2.7134	0.5705	0.8615	0.012	1.0544	0.7146	0.8058	0.9678	0.7929	0.8478	0.7918	1.0255
291892003	1.1077	0.0145	0.5	0.5681	0.2981	1.147	3.7248	2.8137	0.7898	0.9097	0.0148	1.0678	0.6405	0.8287	0.9563	0.8233	0.8303	0.8213	1.0229
295100007	1.0625	0.0127	0.5	0.5746	0.297	1.106	4.8141	2.8021	0.74	0.8757	0.013	1.071	0.6336	0.8292	0.9599	0.822	0.8305	0.8241	1.0198
295100085	1.1589	0.0128	0.5	0.5619	0.2917	1.1978	4.5493	2.8932	0.8236	0.9521	0.0131	1.0662	0.6449	0.8292	0.9574	0.8244	0.8318	0.8216	1.0202
295100087	1.1527	0.0131	0.5	0.5622	0.2916	1.1856	4.7722	2.8673	0.8219	0.9403	0.0133	1.0693	0.6388	0.8229	0.9598	0.8171	0.8349	0.8158	1.0209
310550019	0.7951	0.0138	0.5	0.9212	0.3686	1.0473	2.1069	2.1935	1.0291	0.7522	0.014	1.1987	0.8012	0.9317	0.9849	0.9795	0.8209	0.9461	1.0153
310550052	0.763	0.0133	0.5	0.7987	0.2987	0.9251	2.1236	1.92	0.9299	0.6656	0.0135	1.0706	0.6919	0.8727	0.9651	0.8931	0.8216	0.8723	1.0156
310790004	0.6404	0.0018	0.5	0.7297	0.2078	0.7028	2.1615	1.5425	0.6134	0.5353	0.0019	1.0353	0.697	0.8381	0.9716	0.8427	0.8241	0.8358	1.0285
311090022	0.7067	0.0095	0.5	0.7351	0.2344	0.8021	1.8211	1.7048	0.7601	0.5924	0.0096	1.0406	0.6378	0.8441	0.9585	0.853	0.8211	0.8382	1.0158
311530007	0.8072	0.0138	0.5	0.9421	0.3708	1.0409	2.1907	2.2139	0.9847	0.7604	0.014	1.2062	0.8137	0.9303	0.986	0.9769	0.8213	0.942	1.0154
311770002	0.7412	0.0103	0.5	0.7419	0.2741	0.8805	2.0162	1.803	0.9099	0.6304	0.0104	1.054	0.6974	0.8561	0.9712	0.8683	0.8241	0.8505	1.0138
330012004	0.5442	0.037	0.5	0.2418	0.3064	0.5392	2.1503	1.7642	0.1678	0.4627	0.0381	1.0154	0.8658	0.8612	0.9693	0.8471	0.9588	0.8503	1.0281
330050007	0.653	0.0234	0.5	0.2702	0.3068	0.6344	5.7378	1.9518	0.2004	0.5518	0.0242	1.0242	0.8528	0.8531	0.968	0.8392	0.9506	0.8451	1.0351
330090010	0.5007	0.0162	0.5	0.2269	0.2379	0.5051	3.4444	1.5957	0.1825	0.4202	0.0167	1.0238	0.8685	0.8485	0.9701	0.8348	0.9524	0.8393	1.032
330111015	0.7397	0.062	0.5	0.32	0.4526	0.7569	3.4263	2.3192	0.2958	0.6383	0.0639	1.011	0.8397	0.8717	0.9691	0.8599	0.9392	0.8629	1.0314
330131006	0.7228	0.0573	0.5	0.3117	0.4566	0.7229	3.2373	2.2256	0.3086	0.6098	0.0596	1.0183	0.8627	0.8593	0.9729	0.8392	0.9599	0.8436	1.0398
330150014	0.5708	0.0807	0.5	0.2655	0.3515	0.5832	3.4304	2.0698	0.1694	0.5013	0.0826	1.0215	0.8418	0.8882	0.9687	0.8776	0.9637	0.8782	1.0228
330190003	0.5224	0.0207	0.5	0.2431	0.2563	0.526	4.3994	1.6677	0.1877	0.4401	0.0215	1.0276	0.8604	0.8492	0.9675	0.8336	0.9524	0.8426	1.0349

MATS 2.3.1 - Ouput File - Annual PM-2.5
2018 Business As Usual Scenario

Year																			
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
340011006	1.2058	0.0921	0.5	0.4659	0.3139	1.0574	3.3831	2.9656	0.2146	1.0236	0.0933	1.0848	0.7819	0.8572	0.9658	0.8496	0.9632	0.849	1.0137
340030003	1.2556	0.0699	0.5	0.5783	0.7551	1.2681	2.8822	3.0893	0.6348	1.0696	0.0721	1.0455	0.6963	0.8627	0.9702	0.8537	0.9149	0.8519	1.0312
340071007	1.3143	0.0354	0.5	0.6488	0.4847	1.3291	3.1302	3.1779	0.7558	1.0834	0.0366	1.0361	0.712	0.842	0.9564	0.8272	0.9096	0.8243	1.0343
340171003	1.2299	0.0596	0.5	0.589	0.7805	1.3583	3.4365	3.1964	0.7334	1.0899	0.0611	1.0561	0.714	0.8908	0.9697	0.8876	0.907	0.8862	1.0264
340172002	1.2894	0.0624	0.5	0.603	0.8105	1.4063	4.1823	3.3092	0.7695	1.1308	0.0641	1.0518	0.7092	0.8844	0.9695	0.8796	0.9067	0.877	1.027
340210008	1.221	0.033	0.5	0.4687	0.4343	1.2017	3.2691	2.9806	0.6306	1.0033	0.0342	1.0561	0.7112	0.8433	0.9676	0.8245	0.9413	0.8217	1.0359
340218001	1.1217	0.0268	0.5	0.4136	0.3902	1.0857	2.238	2.7273	0.5379	0.9204	0.0279	1.0559	0.71	0.8399	0.9679	0.8213	0.9406	0.8205	1.0402
340230006	1.163	0.0272	0.5	0.3925	0.4257	1.1267	3.1683	2.8916	0.5283	0.9649	0.0283	1.0585	0.7062	0.8475	0.9701	0.8312	0.9499	0.8296	1.0399
340270004	1.1151	0.0255	0.5	0.3777	0.4973	1.0738	2.4305	2.7837	0.487	0.9241	0.0265	1.0562	0.735	0.8464	0.9716	0.8292	0.9551	0.8287	1.0375
340273001	1.0426	0.0059	0.5	0.2487	0.2491	0.9728	2.3757	2.7046	0.3477	0.8595	0.0061	1.0563	0.7512	0.8388	0.9708	0.8231	0.968	0.8243	1.0383
340292002	1.0982	0.0513	0.5	0.4825	0.5451	1.0614	2.3406	2.7082	0.4649	0.9216	0.0529	1.0702	0.7467	0.8562	0.9643	0.8413	0.9742	0.8392	1.03
340310005	1.2437	0.0558	0.5	0.5649	0.7807	1.2608	2.9155	3.0542	0.6762	1.046	0.0576	1.0501	0.7068	0.857	0.9704	0.8434	0.9279	0.841	1.0315
340390004	1.2191	0.0533	0.5	0.627	1.0898	1.2844	3.9194	3.057	0.6706	1.0548	0.0552	1.0656	0.724	0.878	0.9726	0.8704	0.9258	0.8653	1.0357
340390006	1.2181	0.0488	0.5	0.6061	1.0422	1.2725	3.0777	3.0423	0.6537	1.0522	0.0505	1.0615	0.724	0.8757	0.9722	0.8674	0.922	0.8638	1.0338
340392003	1.2143	0.0472	0.5	0.5864	0.9826	1.2623	2.9624	3.0448	0.6376	1.0511	0.0489	1.0652	0.7243	0.8786	0.9724	0.8684	0.9265	0.8656	1.0357
340410006	1.2796	0.0196	0.5	0.4089	0.4961	1.2664	2.8799	3.0947	0.714	1.0449	0.0204	1.0476	0.7488	0.8417	0.9673	0.8195	0.9542	0.8166	1.0405
360050080	1.2863	0.0826	0.5	0.5982	0.7809	1.318	4.6757	3.2084	0.6739	1.1088	0.0853	1.046	0.6988	0.8724	0.9693	0.8643	0.914	0.862	1.0327
360050110	1.2749	0.0768	0.5	0.5902	0.7748	1.3153	2.9324	3.2454	0.626	1.1265	0.0793	1.051	0.7085	0.8868	0.9689	0.8864	0.9053	0.8836	1.032
360130011	1.011	0.0093	0.5	0.3919	0.3204	0.9352	1.6814	2.3807	0.4674	0.7928	0.0096	1.1323	0.8005	0.8065	0.9915	0.7844	0.9474	0.7842	1.0385
360290005	1.0103	0.0317	0.5	0.3957	0.2871	0.9859	3.9599	2.4585	0.6313	0.8232	0.0328	1.1097	0.8008	0.8362	0.9948	0.8158	0.9302	0.8148	1.0329
360291007	1.0188	0.0307	0.5	0.3891	0.289	0.9979	3.5748	2.5005	0.6242	0.8318	0.0317	1.1095	0.8012	0.8347	0.9948	0.8172	0.9298	0.8164	1.0329
360310003	0.3756	0.0049	0.5	0.1119	0.0949	0.3826	1.6354	1.474	0.0921	0.3081	0.005	1.0526	0.8941	0.8285	0.9907	0.818	0.9453	0.8203	1.0188
360470122	1.2572	0.0628	0.5	0.6006	0.7912	1.3998	3.2104	3.2978	0.761	1.1258	0.0645	1.0569	0.7154	0.8986	0.9697	0.8972	0.9078	0.8954	1.0274
360551007	0.9911	0.0295	0.5	0.2896	0.2988	1.0558	2.4094	2.4113	0.7589	0.8384	0.0303	1.0806	0.7993	0.861	0.9957	0.8495	0.9128	0.8459	1.0292
360590008	1.0898	0.0537	0.5	0.5012	0.6821	1.1401	2.7006	2.791	0.555	0.9639	0.0553	1.0531	0.7146	0.8907	0.9709	0.8862	0.9126	0.8845	1.0295
360610079	1.3044	0.0772	0.5	0.6132	0.8095	1.3737	3.0056	3.3485	0.6886	1.1584	0.0796	1.0511	0.7092	0.8925	0.9693	0.8881	0.9056	0.888	1.0319
360632008	1.0054	0.0342	0.5	0.4098	0.3296	1.0012	3.1049	2.4803	0.6552	0.8286	0.0352	1.0822	0.8794	0.8404	0.9957	0.8233	0.9206	0.8241	1.0292
360671015	0.8929	0.0063	0.5	0.3007	0.2519	0.8426	2.4413	2.3431	0.3735	0.7335	0.0066	1.074	0.7993	0.8356	0.99	0.8216	0.9125	0.8214	1.0349
360710002	1.0327	0.0274	0.5	0.3877	0.4665	0.9695	2.7363	2.6127	0.3834	0.8645	0.0282	1.0452	0.786	0.8526	0.9896	0.8387	0.9392	0.8372	1.0299
360810124	1.1609	0.064	0.5	0.5383	0.7171	1.2049	2.6187	2.9292	0.601	1.0123	0.066	1.0474	0.7062	0.8797	0.9706	0.8739	0.91	0.872	1.0307
360850055	1.1947	0.0505	0.5	0.5992	0.9815	1.2824	3.0541	3.074	0.642	1.0616	0.0521	1.0637	0.7156	0.8929	0.9703	0.8875	0.9185	0.8886	1.0318
360850067	1.0312	0.04	0.5	0.4977	0.7936	1.0724	2.9344	2.6242	0.4879	0.9113	0.0412	1.064	0.7137	0.8885	0.9701	0.8842	0.9183	0.8837	1.0301
360893001	0.4474	0.0099	0.5	0.1797	0.1703	0.4821	2.0128	1.4785	0.2519	0.3706	0.0101	1.0497	0.9216	0.8418	0.9988	0.8244	0.9449	0.8285	1.0197
361010003	0.8458	0	0.5	0.314	0.2476	0.7738	1.8953	2.4009	0.2293	0.6756	0	1.0943	0.8083	0.8066	0.9893	0.7909	0.9242	0.7988	1
361030002	1.0503	0.0536	0.5	0.4654	0.6047	1.0749	2.6697	2.6487	0.5386	0.9079	0.0553	1.0644	0.7275	0.8788	0.9762	0.8687	0.9361	0.8645	1.0323
361191002	1.2172	0.0679	0.5	0.5485	0.7067	1.2141	2.3412	3.0161	0.5811	1.0433	0.0703	1.0536	0.7086	0.8739	0.9734	0.8623	0.9289	0.8571	1.0348
370010002	1.3831	0.0124	0.5	0.3955	0.3947	1.0668	3.9377	3.1695	0.1774	1.0125	0.0126	1.0775	0.7356	0.7344	0.9736	0.7227	0.8524	0.732	1.0158
370210034	1.1409	0.0068	0.5	0.3514	0.3209	0.829	3.8299	2.6217	0.0504	0.8247	0.007	1.0632	0.7638	0.7209	0.9752	0.7122	0.8962	0.7229	1.025
370330001	1.4048	0.0118	0.5	0.3898	0.4063	1.0802	3.3266	3.2027	0.1821	1.0248	0.012	1.0829	0.7509	0.7354	0.9747	0.7222	0.8936	0.7295	1.0144
370350004	1.5502	0.015	0.5	0.3741	0.555	1.1493	4.6741	3.2204	0.1887	1.1255	0.0154	1.0738	0.7496	0.7341	0.9728	0.7257	0.8352	0.7261	1.0273
370370004	1.3567	0.0113	0.5	0.3866	0.3636	1.0383	3.1388	3.0573	0.1525	0.992	0.0115	1.0659	0.7391	0.7307	0.9708	0.7216	0.8079	0.7311	1.014
370510009	1.3093	0.0135	0.5	0.3337	0.3577	1.0883	4.5361	3.0426	0.237	1.0153	0.0136	1.0586	0.7307	0.7716	0.9717	0.7641	0.7593	0.7754	1.0051
370570002	1.6222	0.026	0.5	0.4571	0.4598	1.2297	4.4402	3.5359	0.1966	1.1914	0.0265	1.0771	0.7322	0.7434	0.9784	0.7304	0.8752	0.7344	1.0217
370610002	1.2389	0.0337	0.5	0.3258	0.2716	0.9633	2.9948	2.7508	0.1231	0.956	0.034	1.0604	0.7875	0.7663	0.979	0.7642	0.7221	0.7717	1.0076
370650004	1.336	0.0274	0.5	0.3829	0.3307	1.0342	3.5648	2.975	0.1334	1.0051	0.0278	1.0654	0.7663	0.7526	0.9779	0.7433	0.7868	0.7523	1.0122
370670022	1.5541	0.0111	0.5	0.3272	0.362	1.1941	3.6389	3.4729	0.1814	1.1341	0.0114	1.0862	0.687	0.7377	0.967	0.7245	0.8745	0.7297	1.027
370670030	1.5509	0.0136	0.5	0.3611	0.3869	1.195	3.5324	3.4375	0.1975	1.1376	0.014	1.0816	0.7037	0.7405	0.969	0.7274	0.8693	0.7335	1.0275
370710016	1.4678	0.0128	0.5	0.4441	0.4611	1.1068	4.0692	3.199	0.1821	1.0676	0.013	1.0751	0.7444	0.734	0.9743	0.7211	0.8818	0.7273	1.0131
370990006	1.118	0	0.5	0.5257	0.2986	0.8028	3.9789	2.5644	0.0506	0.7805	0	1.0803	0.7706	0.6964	0.9692	0.6867	0.8922	0.6981	1
371070004	1.2589	0.0396	0.5	0.3235	0.2346	0.9481	3.0671	2.6931	0.0973	0.9575	0.0399	1.0607	0.798	0.7613	0.9823	0.7575	0.7542	0.7606	1.0083
371110004	1.2774	0.0022	0.5	0.4037	0.3476	0.903	5.0426	2.7265	0.0674	0.9123	0.0023	1.0792	0.7793	0.7156	0.9718	0.707	0.9103	0.7142	1.0269
371170001	1.3155	0.0381	0.5	0.3699	0.3074	1.0276	2.5944	2.9321	0.1521	1.004	0.0384	1.0858	0.8102	0.768	0.9832	0.7613	0.8539	0.7632	1.0067
371190041	1.45	0.0132	0.5	0.4632	0.4007	1.0933	4.4347	3.1923	0.1707	1.0548	0.0133	1.0804	0.7004	0.734	0.9701	0.7212	0.8466	0.7274	1.0123
371190042	1.4581	0.0134	0.5	0.463	0.4123	1.1092	4.5528	3.2298	0.1789	1.0663	0.0135	1.0796	0.7012	0.7357	0.9702	0.7243	0.8466	0.7313	1.0129
371190043	1.5049	0.0128	0.5	0.4866	0.4356	1.1481	3.7512	3.3286	0.1902	1.1051	0.0129	1.0896	0.7221	0.7385	0.9728	0.7267	0.8763	0.7343	1.0127
371210001	1.3135	0	0.5	0.4521	0.3164	0.9095	3.9373	2.757	0.0419	0.9344	0	1.0833	0.7859	0.7137	0.9742	0.7075	0.904	0.7114	1
371230001	1.3415	0.0131	0.5	0.3643	0.3537	1.0271	3.093	3.0624	0.1467	0.9859	0.0133	1.063	0.7728	0.735	0.9749	0.7242	0.7995	0.7349	1.0149

MATS 2.3.1 - Ouput File - Annual PM-2.5
2018 Business As Usual Scenario

Year																			
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
371470005	1.3397	0.0392	0.5	0.3528	0.2766	1.0163	3.3537	2.8943	0.1186	1.0145	0.0395	1.057	0.8051	0.7577	0.9833	0.7529	0.7963	0.7572	1.0076
371550005	1.2827	0.0178	0.5	0.3303	0.3414	1.0449	3.9976	3.0259	0.1988	0.9873	0.018	1.0623	0.7705	0.7648	0.977	0.7586	0.7453	0.7697	1.0086
371590021	1.5021	0.0131	0.5	0.3766	0.3659	1.1435	4.341	3.3438	0.1662	1.1098	0.0132	1.0783	0.7457	0.7435	0.9818	0.733	0.8559	0.7389	1.0138
371730002	1.1665	0	0.5	0.5502	0.3228	0.8455	4.1801	2.6984	0.0613	0.8153	0	1.0832	0.7691	0.6964	0.9698	0.6879	0.8906	0.6989	1
371830014	1.3234	0.0163	0.5	0.4158	0.341	1.0461	4.1582	3.0703	0.128	0.9907	0.0164	1.0601	0.6695	0.747	0.9628	0.7367	0.8026	0.7486	1.0093
371890003	1.3547	0.0037	0.5	0.3919	0.3837	0.9653	2.5318	2.8017	0.1067	0.9719	0.0038	1.0847	0.7805	0.7244	0.9757	0.7159	0.897	0.7174	1.0429
371910005	1.2944	0.0317	0.5	0.3425	0.298	0.984	4.4975	2.7956	0.1235	0.974	0.0321	1.0518	0.7972	0.7529	0.9823	0.7474	0.7425	0.7525	1.0117
380171004	0.477	0.0135	0.5	0.8516	0.1846	0.5933	2.8216	1.1846	0.7749	0.4101	0.0137	1.0149	0.6838	0.8667	0.9574	0.8713	0.8549	0.8597	1.0112
390090003	1.3858	0.0074	0.5	0.5444	0.3796	1.1337	2.2964	3.3257	0.3835	1.0025	0.0077	1.1406	0.7607	0.7401	0.9838	0.7174	0.9396	0.7234	1.0397
390170003	1.5663	0.0165	0.5	0.6903	0.3874	1.498	3.5234	3.6019	0.9385	1.2329	0.0172	1.093	0.6569	0.8073	0.9746	0.79	0.885	0.7872	1.0448
390170016	1.4935	0.0264	0.5	0.5125	0.3938	1.4123	3.97	3.4022	0.8256	1.1665	0.0275	1.1057	0.6509	0.7992	0.97	0.7829	0.8758	0.7811	1.0396
390230005	1.4122	0.0091	0.5	0.4219	0.3568	1.4066	3.6521	3.2597	0.8789	1.1179	0.0094	1.0796	0.6781	0.8064	0.9756	0.7949	0.8459	0.7916	1.0346
390250022	1.4965	0.0225	0.5	0.4726	0.4177	1.412	2.7485	3.438	0.7799	1.1768	0.0232	1.121	0.688	0.808	0.9809	0.79	0.8889	0.7864	1.0336
390350027	1.3737	0.1508	0.5	1.2041	0.6139	1.4848	2.3626	3.2193	1.1298	1.1114	0.1571	1.1147	0.6753	0.8265	0.9687	0.8099	0.8873	0.8091	1.042
390350034	1.2451	0.1163	0.5	1.0557	0.5189	1.2969	2.1537	2.8757	0.9296	0.9984	0.1214	1.1304	0.67	0.822	0.9701	0.8046	0.896	0.8019	1.0434
390350038	1.3835	0.1495	0.5	1.2025	0.6086	1.4669	3.9555	3.2106	1.0767	1.1117	0.1558	1.1149	0.6745	0.8208	0.9686	0.8058	0.8873	0.8036	1.0418
390350045	1.3963	0.1458	0.5	1.2105	0.6111	1.4762	3.1639	3.2349	1.08	1.12	0.1519	1.1146	0.6745	0.8216	0.9689	0.8063	0.8866	0.8021	1.0419
390350060	1.3913	0.1409	0.5	1.2106	0.6134	1.4604	3.7484	3.2214	1.0357	1.1166	0.1467	1.1147	0.674	0.8199	0.9689	0.8039	0.8849	0.8026	1.0411
390350065	1.4587	0.1462	0.5	1.2547	0.632	1.523	2.9868	3.3687	1.0797	1.1672	0.1522	1.1143	0.6741	0.8218	0.9688	0.8047	0.8838	0.8001	1.0406
390351002	1.2594	0.0921	0.5	1.0097	0.4637	1.3013	2.5045	2.9335	0.9601	1.0123	0.0961	1.1019	0.6824	0.8225	0.9709	0.8042	0.8884	0.8039	1.0437
390490024	1.4283	0.0182	0.5	0.5773	0.3385	1.3043	3.7996	3.2658	0.6879	1.101	0.0189	1.083	0.6238	0.7865	0.9642	0.772	0.8544	0.7709	1.035
390490025	1.4295	0.0181	0.5	0.5841	0.355	1.3008	3.6882	3.2757	0.6904	1.0962	0.0187	1.0841	0.644	0.786	0.9683	0.7701	0.8607	0.7668	1.0367
390570005	1.4151	0.0107	0.5	0.4315	0.3525	1.3873	2.5392	3.2289	0.8549	1.1097	0.0111	1.0834	0.6689	0.8018	0.9746	0.7877	0.8597	0.7842	1.0369
390610006	1.4909	0.0242	0.5	0.4895	0.3841	1.3938	3.3667	3.3808	0.7697	1.1632	0.025	1.1046	0.6376	0.7977	0.9729	0.7834	0.8766	0.7802	1.0372
390610014	1.5547	0.0325	0.5	0.4617	0.4126	1.4913	5.1749	3.5248	0.8482	1.2247	0.0339	1.1161	0.6517	0.8061	0.9705	0.7932	0.8764	0.7877	1.0429
390610040	1.5377	0.0359	0.5	0.448	0.407	1.4619	3.4542	3.4679	0.8045	1.2062	0.0373	1.1157	0.6512	0.8048	0.9718	0.7917	0.8745	0.7844	1.0394
390610042	1.5132	0.0206	0.5	0.4436	0.4514	1.4269	4.772	3.4829	0.7881	1.1867	0.0215	1.1152	0.7053	0.8026	0.9733	0.7859	0.8809	0.7842	1.0405
390610043	1.5077	0.0291	0.5	0.5113	0.3788	1.4318	3.9353	3.3996	0.8446	1.1771	0.0303	1.1055	0.638	0.801	0.972	0.7843	0.8785	0.7807	1.0405
390617001	1.5243	0.0285	0.5	0.4433	0.4072	1.4393	4.147	3.4661	0.7788	1.2	0.0297	1.1156	0.6513	0.8041	0.9715	0.7916	0.874	0.7873	1.0414
390618001	1.4993	0.0249	0.5	0.4376	0.3974	1.4249	5.2955	3.4178	0.7864	1.1822	0.0259	1.1158	0.6515	0.8086	0.9711	0.7928	0.8751	0.7885	1.0403
390811001	1.6756	0.0334	0.5	0.9439	0.6731	1.3788	3.7445	3.6473	0.4477	1.2595	0.0351	1.1478	0.7681	0.7739	0.9872	0.7571	0.9282	0.7516	1.0504
390853002	1.3406	0.0723	0.5	0.9901	0.5037	1.3321	2.3272	3.0934	0.8709	1.066	0.0755	1.1478	0.7113	0.8224	0.9795	0.7998	0.9257	0.7952	1.0441
390933002	1.0247	0.0195	0.5	0.9658	0.2931	1.0444	3.7156	2.6078	0.6599	0.8322	0.0203	1.1008	0.6853	0.8268	0.97	0.8081	0.9026	0.8122	1.0392
390950024	1.2467	0.0122	0.5	0.4831	0.3924	1.3702	3.6421	2.9143	1.168	1.0163	0.0126	1.0748	0.6695	0.8323	0.9634	0.8213	0.864	0.8152	1.039
390950026	1.2621	0.019	0.5	0.4922	0.4098	1.4094	3.3812	2.9525	1.2336	1.0295	0.0196	1.063	0.6727	0.8313	0.9642	0.8237	0.8566	0.8157	1.0322
390990005	1.3413	0.0285	0.5	0.9249	0.5269	1.274	3.6274	3.0785	0.7389	1.0478	0.0296	1.1029	0.723	0.8057	0.9808	0.7839	0.9094	0.7811	1.0387
390990014	1.3268	0.0252	0.5	0.9117	0.5101	1.2462	3.9133	3.0268	0.6985	1.0338	0.0262	1.102	0.7227	0.8031	0.9808	0.7819	0.9094	0.7792	1.0366
391030003	1.3244	0.0418	0.5	0.7208	0.3697	1.3056	2.507	3.0529	0.8909	1.0363	0.0435	1.0965	0.7137	0.8046	0.9776	0.7864	0.8796	0.7825	1.0408
391130032	1.4065	0.0096	0.5	0.3822	0.3338	1.4274	4.3682	3.2844	0.8854	1.1271	0.01	1.0839	0.6532	0.8146	0.9717	0.8021	0.8561	0.8013	1.0347
391330002	1.3808	0.0394	0.5	0.6835	0.4309	1.365	2.5885	3.1567	0.9439	1.0751	0.0412	1.1053	0.6909	0.8057	0.9762	0.783	0.9038	0.7786	1.0442
391351001	1.424	0.0142	0.5	0.4917	0.3539	1.4097	2.7932	3.3094	0.8888	1.1388	0.0148	1.0752	0.689	0.8132	0.9767	0.8034	0.8521	0.7998	1.041
391450013	1.4458	0.013	0.5	0.5288	0.5224	1.2094	3.6524	3.4861	0.3563	1.0905	0.0133	1.1091	0.7729	0.7653	0.9817	0.7458	0.9166	0.7543	1.0261
391530017	1.3531	0.0264	0.5	0.4676	0.3471	1.3574	4.4326	3.1181	0.9431	1.0593	0.0274	1.1057	0.6761	0.8092	0.9746	0.7872	0.8993	0.7829	1.0395
391530023	1.3246	0.0214	0.5	0.4067	0.3299	1.3425	3.7624	3.0717	0.9424	1.0424	0.0222	1.1045	0.6794	0.8125	0.9749	0.7923	0.8968	0.7869	1.0368
391550007	1.3298	0.0284	0.5	0.8564	0.5086	1.2685	3.6095	3.0486	0.7557	1.038	0.0295	1.0984	0.735	0.8071	0.9808	0.783	0.9155	0.7806	1.0393
400159008	0.6958	0	0.5	0.657	0.2153	0.6908	2.9809	1.8773	0.2831	0.6069	0	1.0327	0.7426	0.8638	0.9775	0.8694	0.8158	0.8723	1
400970186	0.9195	0.0051	0.5	0.8022	0.3251	0.887	4.5522	2.3868	0.3585	0.7818	0.0053	1.0546	0.7829	0.8499	0.9842	0.8463	0.8269	0.8503	1.0388
401010169	0.9396	0.0076	0.5	0.7261	0.3195	0.9008	4.598	2.4398	0.3464	0.8001	0.0078	1.0538	0.7626	0.8477	0.9857	0.8454	0.8356	0.8516	1.0246
401091037	0.8906	0.0067	0.5	0.6704	0.2768	0.9231	3.1173	2.3398	0.5284	0.7643	0.0069	1.0298	0.668	0.8588	0.9662	0.8569	0.8278	0.8582	1.0222
401159004	0.8934	0	0.5	0.8736	0.282	0.8543	4.3289	2.247	0.3871	0.7436	0	1.0434	0.7632	0.8321	0.9773	0.8294	0.818	0.8324	1
401359015	0.8845	0	0.5	0.6575	0.2723	0.816	5.4368	2.2368	0.2749	0.7431	0	1.0457	0.771	0.8404	0.9794	0.8339	0.8351	0.8402	1
401431127	0.9531	0.0075	0.5	0.7303	0.3577	0.9392	4.085	2.5306	0.3864	0.8193	0.0077	1.0337	0.7697	0.8545	0.9814	0.8548	0.8345	0.8596	1.0251
420010001	1.3495	0.0236	0.5	0.2461	0.2339	1.2416	2.8455	3.0726	0.7512	1.0108	0.0249	1.087	0.77	0.7734	0.9811	0.7464	0.8993	0.749	1.051
420030008	1.4663	0	0.5	1.0053	0.6346	1.2657	3.4176	3.4592	0.5535	1.11	0	1.1239	0.7212	0.776	0.9793	0.7544	0.927	0.757	1
420030064	1.4797	0	0.5	0.7797	0.5477	1.2198	8.2467	3.3017	0.4757	1.0954	0	1.1194	0.7339	0.7659	0.9886	0.7413	0.9348	0.7403	1
420030067	1.3444	0.0072	0.5	0.7129	0.5094	1.1449	2.2466	3.2911	0.4169	1.0108	0.0075	1.1312	0.7546	0.768	0.9831	0.7462	0.9323	0.7519	1.0449
420031008	1.5224	0.0031	0.5	0.8445	0.6109	1.2849	3.6786	3.3935	0.5735	1.1271	0.0033	1.1354	0.7474	0.7677	0.9873	0.7412	0.9537	0.7404	1.0691

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Year																			
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
420031301	1.5541	0	0.5	0.9409	0.6307	1.328	4.3444	3.5339	0.5823	1.1709	0	1.1201	0.7241	0.7729	0.9839	0.7505	0.9343	0.7534	1
420033007	1.5986	0.006	0.5	0.8171	0.5868	1.3147	3.5903	3.5427	0.5061	1.1841	0.0063	1.1195	0.7343	0.7636	0.9849	0.7431	0.935	0.7408	1.0625
420070014	1.3832	0.0178	0.5	0.7613	0.5258	1.2132	5.2961	3.3222	0.4903	1.074	0.0184	1.1504	0.7639	0.7972	0.9875	0.7769	0.9257	0.7764	1.034
420110011	1.2834	0.0718	0.5	0.3816	0.4908	1.4135	4.0215	3.0288	1.0849	1.0543	0.0748	1.0683	0.7431	0.8396	0.9775	0.8204	0.9137	0.8214	1.0421
420170012	1.2903	0.0364	0.5	0.5525	0.4626	1.2915	3.3802	3.1358	0.6999	1.0677	0.0376	1.0493	0.6994	0.8457	0.9592	0.8288	0.9222	0.8275	1.0326
420210011	1.4883	0.0063	0.5	0.4805	0.4325	1.1824	4.9554	3.0735	0.4708	1.0473	0.0068	1.2347	0.7873	0.7326	0.9977	0.7065	0.9655	0.7037	1.0746
420270100	1.3601	0.0073	0.5	0.3128	0.2901	1.1961	2.5299	3.0763	0.5861	1.0187	0.0077	1.1051	0.7842	0.7743	0.9852	0.7497	0.9355	0.7489	1.0462
420410101	1.3073	0.019	0.5	0.3718	0.3604	1.2105	4.185	2.9451	0.7895	0.9859	0.0198	1.0864	0.7492	0.7801	0.9802	0.7524	0.9178	0.7542	1.0458
420430401	1.4906	0.0426	0.5	0.4408	0.5234	1.4769	3.1909	3.2513	1.1363	1.1302	0.0449	1.0757	0.7375	0.7892	0.98	0.7585	0.9124	0.7582	1.0535
420450002	1.3639	0.0435	0.5	0.6658	0.4988	1.3498	3.9904	3.5776	0.7376	1.1266	0.0447	1.0579	0.7414	0.8423	0.9626	0.8257	0.9155	0.826	1.0283
420490003	1.1677	0.0128	0.5	0.4618	0.3531	1.1003	3.2709	2.7559	0.5798	0.9184	0.0133	1.1296	0.7603	0.8105	0.9832	0.7855	0.9514	0.7865	1.0402
420692006	1.1665	0.01	0.5	0.3403	0.4162	1.0634	2.6237	2.8999	0.4553	0.9319	0.0104	1.063	0.7752	0.8135	0.9775	0.7979	0.9288	0.7989	1.0345
420710007	1.4378	0.0849	0.5	0.3725	0.4153	1.6275	3.6338	3.2489	1.4722	1.1267	0.0892	1.0602	0.7405	0.8069	0.9793	0.7823	0.8841	0.7836	1.0506
420850100	1.3202	0.0249	0.5	0.8373	0.5068	1.2205	2.7831	3.0184	0.6464	1.0278	0.0258	1.1036	0.7345	0.8037	0.9816	0.7841	0.9148	0.7785	1.0373
420910013	1.3702	0.0377	0.5	0.5456	0.4862	1.3495	2.5773	3.2472	0.7829	1.1106	0.0391	1.0552	0.7016	0.8299	0.9647	0.8135	0.9113	0.8105	1.0358
420950025	1.3036	0.0211	0.5	0.4154	0.5134	1.2945	3.5622	3.1255	0.7451	1.0611	0.022	1.0478	0.7295	0.8363	0.9667	0.8164	0.9396	0.814	1.0396
421010004	1.348	0.0341	0.5	0.6291	0.4977	1.3484	3.7186	3.2377	0.7485	1.1075	0.0352	1.0363	0.7117	0.8374	0.9557	0.8247	0.9089	0.8216	1.0325
421250005	1.5812	0.0058	0.5	0.7151	0.5615	1.2689	3.9122	3.4289	0.4795	1.143	0.0062	1.1394	0.7628	0.7457	0.9896	0.7237	0.9552	0.7229	1.0655
421250200	1.507	0.0184	0.5	0.698	0.529	1.2219	3.306	3.4132	0.4216	1.1072	0.0192	1.1446	0.7631	0.7558	0.9873	0.733	0.9509	0.7347	1.0422
421290008	1.5577	0.0191	0.5	0.4571	0.51	1.2126	4.2035	3.1611	0.4806	1.0781	0.0199	1.1548	0.7634	0.7246	0.9909	0.6981	0.9599	0.6921	1.0399
421330008	1.4929	0.046	0.5	0.5413	0.5536	1.5286	3.7256	3.2725	1.1867	1.1333	0.0485	1.0704	0.7658	0.7921	0.9846	0.7614	0.9093	0.7591	1.0559
440030002	0.7349	0.0602	0.5	0.3014	0.3334	0.7208	1.9942	2.1928	0.2297	0.6241	0.0622	1.0565	0.7949	0.8554	0.9694	0.8434	0.9509	0.8492	1.032
440070022	0.7751	0.0514	0.5	0.3172	0.3687	0.799	3.3099	2.336	0.3248	0.667	0.0532	1.051	0.7651	0.8666	0.961	0.8518	0.9481	0.8606	1.0355
440070026	0.7957	0.0732	0.5	0.3286	0.369	0.8031	4.9411	2.4483	0.279	0.6862	0.0759	1.0505	0.7627	0.8674	0.9597	0.8545	0.9442	0.8625	1.0368
440070028	0.7704	0.0556	0.5	0.3151	0.3714	0.7989	3.713	2.3332	0.3307	0.6627	0.0576	1.0507	0.7644	0.8711	0.9616	0.8536	0.9471	0.8602	1.0357
440071010	0.773	0.0786	0.5	0.3212	0.3559	0.7766	3.0135	2.4015	0.2573	0.665	0.0815	1.0506	0.7626	0.8645	0.9607	0.8548	0.9438	0.8603	1.036
450250001	1.1486	0.0115	0.5	0.2994	0.2402	0.9293	4.1195	3.0453	0.1031	0.8719	0.0116	1.0704	0.7614	0.7519	0.9751	0.7377	0.808	0.7591	1.0113
450410002	1.1693	0.0291	0.5	0.3704	0.2955	0.9649	4.0572	3.126	0.0976	0.9137	0.0293	1.0687	0.7605	0.7737	0.9782	0.7632	0.7955	0.7814	1.008
450450008	1.2206	0.0107	0.5	0.3764	0.3464	0.9379	5.9351	2.8795	0.1201	0.8885	0.0107	1.0576	0.7112	0.7308	0.9583	0.7149	0.8281	0.728	1.0039
450450009	1.2654	0.0103	0.5	0.3833	0.3653	0.9783	5.1731	3.0013	0.1289	0.9246	0.0104	1.0575	0.7112	0.7299	0.9584	0.7157	0.8282	0.7307	1.0038
450630008	1.2868	0.0132	0.5	0.5932	0.408	0.9779	5.1849	2.9519	0.0669	0.9738	0.0133	1.0585	0.7075	0.7542	0.9663	0.7444	0.8123	0.7568	1.0082
450730001	1.1388	0.0034	0.5	0.4875	0.2824	0.8316	2.8366	2.6045	0.073	0.8013	0.0035	1.0693	0.7555	0.7015	0.9665	0.6899	0.8014	0.7037	1.034
450790007	1.3497	0.0151	0.5	0.624	0.4183	1.0221	4.2946	3.0831	0.0716	1.0174	0.0152	1.0621	0.6886	0.7508	0.9661	0.7436	0.81	0.7539	1.0091
450790019	1.3073	0.0155	0.5	0.6091	0.4065	0.9935	4.6966	2.9942	0.0662	0.9898	0.0157	1.0586	0.6825	0.7577	0.965	0.7475	0.8047	0.7571	1.0088
450830010	1.2802	0.0128	0.5	0.3957	0.3951	0.9836	4.7633	2.9982	0.1289	0.9366	0.0129	1.0593	0.7493	0.7291	0.9706	0.7153	0.8611	0.7316	1.0097
460110002	0.5717	0.0039	0.5	0.5616	0.2004	0.6716	3.2365	1.3057	0.7755	0.4765	0.0039	1.0263	0.7027	0.8406	0.9712	0.8512	0.8221	0.8334	1.0164
460130003	0.4664	0.0035	0.5	0.5873	0.1753	0.5327	3.3643	1.0875	0.6184	0.3848	0.0035	1.0245	0.7116	0.8348	0.9714	0.827	0.8455	0.825	1.018
460290002	0.5172	0.0042	0.5	0.5661	0.1887	0.6061	4.5139	1.2128	0.7171	0.4309	0.0043	1.0259	0.7122	0.8423	0.9711	0.8467	0.8271	0.8333	1.0158
460990006	0.624	0.0085	0.5	0.5502	0.242	0.7391	3.8687	1.4239	0.8239	0.5217	0.0087	1.0262	0.6901	0.8449	0.9607	0.8581	0.8199	0.8361	1.0139
470090011	1.2101	0	0.5	0.5852	0.3473	0.9445	5.4457	3.0846	0.0819	0.879	0	1.0548	0.7205	0.7212	0.9722	0.7105	0.916	0.7264	1
470370023	1.1718	0.0152	0.5	0.7217	0.4785	1.0639	4.105	3.1995	0.3165	0.9182	0.0156	1.0877	0.6639	0.7851	0.9672	0.7697	0.8465	0.7836	1.0235
470370036	1.2229	0.0138	0.5	0.7071	0.4508	1.0898	2.9662	3.2629	0.3018	0.9557	0.0141	1.085	0.6753	0.7831	0.9694	0.7664	0.8513	0.7815	1.0233
470450004	1.2109	0.0041	0.5	0.6928	0.4151	1.0708	2.7637	3.106	0.295	0.9691	0.0043	1.0582	0.716	0.7966	0.9764	0.7886	0.836	0.8003	1.0444
470650031	1.3749	0.0133	0.5	0.5295	0.3673	1.0311	4.8473	3.166	0.0826	1.0069	0.0136	1.0667	0.6815	0.7339	0.9646	0.7237	0.8423	0.7323	1.0214
470651011	1.4714	0.0084	0.5	0.5861	0.4183	1.1139	3.3252	3.358	0.1263	1.0783	0.0087	1.0726	0.691	0.7333	0.9635	0.7223	0.8729	0.7328	1.029
470654002	1.5156	0.0093	0.5	0.5656	0.4197	1.1304	4.5629	3.3859	0.1181	1.107	0.0096	1.0665	0.6786	0.7343	0.9628	0.7244	0.8581	0.7304	1.0297
470990002	1.1626	0.0092	0.5	0.3447	0.2298	0.9665	3.5848	3.0047	0.1452	0.904	0.0095	1.0671	0.753	0.775	0.9761	0.7608	0.8433	0.7775	1.0321
471050108	1.2662	0	0.5	0.5896	0.376	0.9707	6.104	3.0755	0.1021	0.9167	0	1.0797	0.7204	0.7219	0.9739	0.71	0.8959	0.724	1
471071002	1.3684	0.0026	0.5	0.6031	0.3765	1.0254	4.949	3.1608	0.1062	0.9891	0.0027	1.0676	0.7211	0.7219	0.9688	0.7104	0.8604	0.7228	1.0368
471130006	1.1787	0.0063	0.5	0.5959	0.3938	1.0577	3.2452	3.135	0.2841	0.9414	0.0066	1.0544	0.7316	0.7982	0.9775	0.7871	0.8537	0.7987	1.0474
471192007	1.2203	0.0118	0.5	0.5385	0.3677	1.0411	3.7518	3.1154	0.2392	0.9438	0.012	1.0769	0.7142	0.7745	0.975	0.7622	0.8464	0.7734	1.0198
471251009	1.3368	0.0046	0.5	0.5931	0.3606	1.1487	3.575	3.2978	0.3179	1.0436	0.0048	1.1	0.7119	0.7866	0.9771	0.7753	0.8492	0.7807	1.0514
471450004	1.2985	0.0027	0.5	0.608	0.4091	0.9893	5.0046	3.0788	0.1328	0.9305	0.0028	1.0951	0.721	0.722	0.9705	0.7076	0.9024	0.7166	1.0433
471570014	1.2354	0.0145	0.5	0.7751	0.6801	1.0414	3.6941	2.947	0.2235	0.987	0.0148	1.049	0.7104	0.8006	0.964	0.7946	0.8243	0.7989	1.0221
471570047	1.1618	0.0106	0.5	0.6884	0.6372	1.0472	3.5786	3.132	0.2464	0.9387	0.0109	1.0561	0.7181	0.8027	0.9647	0.7932	0.8136	0.8079	1.0317
471631007	1.5787	0.0128	0.5	0.6913	0.4118	1.209	3.5247	3.4613	0.1879	1.1831	0.013	1.0382	0.8193	0.7603	0.9834	0.7472	0.9142	0.7494	1.0173
471650007	1.5077	0.0047	0.5	0.6974	0.3434	1.2224	2.8188	3.5855	0.2508	1.159	0.0049	1.0886	0.6663	0.7723	0.9687	0.7619	0.8469	0.7687	1.0502

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_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
500030004	0.556	0.0032	0.5	0.2293	0.1721	0.5017	3.3626	1.5846	0.0892	0.4674	0.0033	1.0422	0.8506	0.8432	0.988	0.8345	0.9341	0.8405	1.0383
500070012	0.6521	0.0166	0.5	0.2564	0.2914	0.6794	3.2286	1.6286	0.5057	0.5489	0.017	1.0229	0.9115	0.864	0.9858	0.8403	0.9495	0.8417	1.0226
500210002	0.5355	0.0092	0.5	0.2268	0.2035	0.5176	6.2674	1.6224	0.1578	0.4476	0.0095	1.0323	0.8827	0.8387	0.983	0.8286	0.9422	0.8359	1.0319
510130020	1.3464	0.0054	0.5	0.7178	0.63	1.1656	3.0899	3.1186	0.4693	0.998	0.0056	1.0783	0.6753	0.7641	0.9704	0.7397	0.9325	0.7412	1.0513
510360002	1.2687	0.0138	0.5	0.3458	0.3527	1.0347	3.115	3.0006	0.2314	0.9404	0.014	1.0699	0.7542	0.7551	0.9728	0.7362	0.9141	0.7412	1.0147
510410003	1.3691	0.0149	0.5	0.3762	0.3844	1.1199	3.3954	3.1936	0.2785	1.0088	0.0152	1.0668	0.7358	0.7478	0.9688	0.7294	0.923	0.7368	1.0186
510590030	1.3198	0.0024	0.5	0.724	0.6505	1.1389	2.4656	3.0397	0.4701	0.9756	0.0025	1.076	0.6806	0.7614	0.9703	0.7367	0.9388	0.7392	1.0584
510595001	1.2999	0.0199	0.5	0.6084	0.5213	1.1545	3.0646	3.158	0.5062	0.9588	0.0207	1.0743	0.6771	0.7615	0.9703	0.7323	0.9386	0.7376	1.0382
510870014	1.329	0.0146	0.5	0.3594	0.3697	1.0905	3.3482	3.1102	0.2686	0.9835	0.0148	1.0656	0.7413	0.7523	0.9716	0.7339	0.924	0.74	1.017
510870015	1.3205	0.0142	0.5	0.3633	0.3701	1.0728	3.1077	3.061	0.2652	0.9686	0.0145	1.0626	0.7313	0.7469	0.9716	0.726	0.938	0.7335	1.0201
511071005	1.2376	0.0191	0.5	0.5391	0.4774	1.0887	3.1266	2.9658	0.4984	0.9028	0.0198	1.0848	0.7349	0.7553	0.975	0.7232	0.9516	0.7295	1.0401
511390004	1.3962	0.0112	0.5	0.2349	0.217	1.2325	2.7323	2.8501	0.6759	0.9835	0.0115	1.1016	0.7815	0.729	0.9776	0.7086	0.8617	0.7044	1.0307
515200006	1.5452	0.0122	0.5	0.331	0.5451	1.1696	3.3719	3.2292	0.2456	1.1332	0.0124	1.0552	0.818	0.7486	0.9831	0.7382	0.9144	0.7334	1.0182
516500004	1.324	0.0242	0.5	0.4253	0.4022	1.139	2.7386	3.2244	0.2887	1.0403	0.0244	1.0816	0.7592	0.7981	0.9734	0.7829	0.9517	0.7857	1.0081
516800015	1.3194	0.0022	0.5	0.4464	0.4154	0.997	3.3174	2.9458	0.1719	0.9535	0.0022	1.0698	0.7534	0.7326	0.9714	0.7173	0.9277	0.7227	1.0263
517100024	1.3814	0.0313	0.5	0.4008	0.3515	1.1725	3.6433	3.3393	0.2641	1.0865	0.0316	1.0882	0.7556	0.7983	0.9735	0.7834	0.9478	0.7865	1.0102
517700014	1.3859	0.0125	0.5	0.4652	0.4483	1.1037	4.1197	3.3038	0.2431	1.0212	0.0128	1.0678	0.7571	0.7448	0.9718	0.7289	0.9393	0.7368	1.0254
518100008	1.3416	0.0333	0.5	0.3894	0.3438	1.1481	3.2481	3.2512	0.2708	1.0624	0.0336	1.0919	0.757	0.8042	0.9735	0.7888	0.9545	0.7919	1.0086
540030003	1.3927	0.0146	0.5	0.4383	0.3873	1.2073	5.4448	3.1133	0.6128	1.0134	0.0152	1.0952	0.7608	0.7576	0.9787	0.7269	0.9399	0.7277	1.0471
540090005	1.7353	0.0338	0.5	0.9737	0.6918	1.4108	4.0984	3.7416	0.4351	1.2977	0.0355	1.1479	0.7677	0.7708	0.9873	0.7532	0.9268	0.7478	1.0492
540090011	1.7126	0.0366	0.5	0.9677	0.6834	1.3926	3.7155	3.6971	0.4313	1.2822	0.0383	1.1478	0.7674	0.7693	0.9874	0.7531	0.9258	0.7487	1.0456
540110006	1.4886	0.0147	0.5	0.5227	0.5406	1.2092	5.2168	3.5782	0.2937	1.1074	0.0151	1.0954	0.7841	0.7564	0.9824	0.7357	0.9475	0.7439	1.0224
540291004	1.6158	0.0305	0.5	0.8637	0.6162	1.3027	3.6733	3.5463	0.3998	1.2082	0.0319	1.1479	0.7691	0.7679	0.9872	0.7527	0.9203	0.7477	1.0488
540330003	1.5202	0.0085	0.5	0.5103	0.4029	1.1561	3.9414	3.325	0.2822	1.0967	0.0088	1.1626	0.7973	0.7375	0.9906	0.7202	0.9755	0.7214	1.037
540390010	1.5673	0.0215	0.5	0.588	0.6197	1.1746	3.9678	3.5336	0.212	1.1268	0.0222	1.1102	0.7908	0.7283	0.983	0.7142	0.9975	0.7189	1.0338
540391005	1.6523	0.0187	0.5	0.6304	0.6936	1.2104	4.927	3.5032	0.2284	1.1833	0.0195	1.1093	0.7908	0.7314	0.9831	0.7156	0.9973	0.7162	1.0444
540490006	1.5657	0.0058	0.5	0.5841	0.4232	1.1932	4.7472	3.3627	0.3227	1.1227	0.0062	1.188	0.7989	0.737	0.9921	0.7179	0.9653	0.7171	1.059
540511002	1.6818	0.0166	0.5	0.457	0.4258	1.3195	3.8785	3.7268	0.3377	1.2425	0.0171	1.1954	0.7668	0.756	0.9912	0.7391	0.9437	0.7388	1.0331
540610003	1.5132	0.005	0.5	0.5772	0.4305	1.1056	4.0243	3.1278	0.3192	1.0292	0.0053	1.1961	0.7885	0.7024	0.9912	0.6807	0.9729	0.6802	1.0672
540690010	1.6675	0.0214	0.5	0.6575	0.5072	1.3192	3.1402	3.6706	0.3775	1.2308	0.0223	1.167	0.7627	0.7572	0.9879	0.7388	0.9363	0.7382	1.0424
540810002	1.34	0.0133	0.5	0.465	0.4725	1.0349	2.9848	3.2329	0.1568	0.9802	0.0136	1.0938	0.7822	0.7396	0.9811	0.7254	0.9426	0.7314	1.0235
541071002	1.4207	0.0029	0.5	0.5107	0.3701	1.1246	5.0486	3.3228	0.3434	1.0105	0.003	1.1286	0.7739	0.7315	0.9845	0.7066	0.9433	0.7113	1.055
550030010	0.4591	0.0062	0.5	0.3163	0.1636	0.5816	1.9202	1.3465	0.5973	0.4073	0.0064	1.045	0.8128	0.8941	0.9779	0.8908	0.8934	0.8872	1.0229
550090005	0.7137	0.0123	0.5	0.2333	0.1951	0.9205	5.5503	1.9723	1.029	0.629	0.0125	1.0541	0.7754	0.8719	0.9797	0.8893	0.8323	0.8814	1.0223
550250047	1.0053	0.0333	0.5	0.5932	0.2958	1.2271	4.0348	2.3185	1.481	0.842	0.0342	1.0559	0.7093	0.8461	0.9702	0.8523	0.8353	0.8376	1.0251
550270007	0.9393	0.0172	0.5	0.2532	0.2036	1.2054	3.3713	2.2038	1.4487	0.7992	0.0177	1.0588	0.7375	0.8562	0.9764	0.8649	0.8358	0.8509	1.0269
550410007	0.5592	0.0054	0.5	0.2535	0.1733	0.7067	2.1576	1.5684	0.7519	0.4929	0.0056	1.0545	0.8389	0.8834	0.9781	0.8878	0.8699	0.8813	1.0318
550430009	1.0408	0.0427	0.5	0.5482	0.2723	1.2365	3.7203	2.4026	1.4087	0.8667	0.0437	1.0547	0.7161	0.8394	0.9658	0.851	0.8215	0.8327	1.0224
550590019	1.1536	0.0127	0.5	0.3689	0.28	1.4133	3.1858	2.9463	1.6373	0.9823	0.0131	1.0884	0.6775	0.8586	0.971	0.8539	0.8633	0.8515	1.0337
550630012	0.7352	0	0.5	0.4198	0.2198	0.869	5.6421	1.7162	1.0046	0.6162	0	1.0459	0.7232	0.848	0.957	0.8545	0.8385	0.8381	1
550710007	0.7093	0.011	0.5	0.2271	0.2017	0.9273	4.3476	1.9829	1.0667	0.6186	0.0113	1.0691	0.7593	0.8665	0.9814	0.8793	0.8477	0.8721	1.0262
550790010	1.08	0.0334	0.5	0.5597	0.3926	1.3698	4.1826	2.5979	1.5928	0.926	0.0343	1.0935	0.7344	0.8637	0.977	0.8656	0.8587	0.8574	1.0254
550790026	1.1163	0.0339	0.5	0.5344	0.4048	1.4136	4.0397	2.6768	1.6401	0.9525	0.0347	1.0888	0.7314	0.8631	0.9769	0.8666	0.8562	0.8532	1.0259
550790043	1.0894	0.035	0.5	0.5392	0.3973	1.3722	4.7186	2.6026	1.5922	0.9269	0.0358	1.0941	0.7343	0.8621	0.9769	0.8641	0.8584	0.8509	1.025
550790059	1.1498	0.0372	0.5	0.6977	0.4233	1.433	4.7199	2.7432	1.6774	0.9809	0.0383	1.0945	0.7335	0.8638	0.977	0.8645	0.8593	0.8531	1.0282
550790099	1.1102	0.0347	0.5	0.5437	0.3976	1.3937	4.6154	2.6575	1.5977	0.9466	0.0356	1.0897	0.7306	0.8627	0.9768	0.8645	0.8566	0.8527	1.025
550870009	0.7575	0.012	0.5	0.2419	0.2146	0.958	4.8726	1.9918	1.0848	0.6596	0.0122	1.0412	0.8227	0.8672	0.9855	0.886	0.8291	0.8708	1.0216
550890009	1.0415	0.0301	0.5	0.5848	0.3412	1.3091	2.9836	2.5032	1.5675	0.8904	0.0309	1.0755	0.7297	0.86	0.977	0.8649	0.8552	0.8549	1.0282
551091002	0.7436	0.024	0.5	0.4978	0.3265	0.9477	3.4548	1.8293	1.1812	0.6411	0.0244	1.0327	0.7142	0.8702	0.966	0.8795	0.852	0.8621	1.0193
551110007	0.9572	0.0274	0.5	0.5183	0.284	1.1827	2.3681	2.2617	1.4247	0.8085	0.0281	1.0581	0.7448	0.8523	0.9748	0.8634	0.8318	0.8446	1.0254
551198001	0.6455	0.0067	0.5	0.3513	0.1846	0.8114	3.1719	1.7898	0.8995	0.5629	0.0069	1.0463	0.8021	0.874	0.9763	0.8814	0.8523	0.8721	1.0227
551250001	0.5091	0.0034	0.5	0.2983	0.165	0.6319	2.2556	1.499	0.604	0.4543	0.0036	1.0451	0.847	0.8905	0.9734	0.8922	0.878	0.8923	1.033
551330027	0.9917	0.0531	0.5	1.2085	0.4343	1.2172	4.6106	2.3492	1.5135	0.8458	0.0545	1.0845	0.7207	0.8622	0.9745	0.8666	0.8547	0.8529	1.0271

ALPINE GEOPHYSICS

ENVIRON

Appendix C

MATS 2.3.1 Output Files; 24-hr PM2.5 Business As Usual Runs

ALPINE GEOPHYSICS

ENVIRON

Table C-1. MATS 2.3.1 Output Files; 2014 24-hr PM2.5 Business As Usual Runs

MATS 2.3.1 - Ouput File - 24-hr PM-2.5
2014 Business As Usual Scenario

Year																
_id	_type	_state_name	_county_name	monitor_lat	monitor_long	monitor_gridcell	b_pm25_d_DV	f_pm25_d_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
10331002	FRM	Alabama	Colbert	34.760556	-87.650556	81002	28.3	23.4	0.5	0.6967	0.7558	3.0635	9.5699	9.0149	0.7939
10890014	FRM	Alabama	Madison	34.68767	-86.58637	89002	29.1	23	0.5	0.8155	0.6462	3.5195	8.8099	9.518	0.728
11030011	FRM	Alabama	Morgan	34.518735	-86.976939	88001	29	29	0.5	0.5136	0.6277	3.6237	7.0763	13.6675	0
50350005	FRM	Arkansas	Crittenden	35.197288	-90.193141	62004	30.6	24.1	0.5	0.8015	1.4721	3.6498	9.1966	10.9991	0
50450002	FRM	Arkansas	Faulkner	35.087842	-92.39375	45002	25	22.9	0.5	2.3786	1.1408	1.9262	11.2192	5.5364	0.112
50670001	FRM	Arkansas	Jackson	35.638169	-91.189506	54008	27.1	24	0.5	1.0455	1.1545	2.9234	9.9249	7.3932	1.2375
51150003	FRM	Arkansas	Pope	35.292222	-93.139167	40004	25.8	23.7	0.5	1.1296	0.8412	1.7544	13.9153	4.2779	0.6249
51190007	FRM	Arkansas	Pulaski	34.756189	-92.281296	47001	26.8	26.8	0.5	2.0062	0.9185	2.0784	13.0168	6.1604	0.0251
51310008	FRM	Arkansas	Sebastian	35.389672	-94.424288	30004	24.5	23	0.5	0.8712	0.6789	2.3183	11.3449	5.2996	1.476
51450001	FRM	Arkansas	White	35.24894	-91.715596	50004	26.5	23.3	0.5	0.7361	0.5808	2.1444	13.4331	6.2148	0
90010010	FRM	Connecticut	Fairfield	41.170833	-73.194722	174079	33	30.2	0.5	0.8933	2.0167	3.2672	14.2403	7.3916	1.8845
90011123	FRM	Connecticut	Fairfield	41.399167	-73.443056	172080	30.5	29.1	0.5	0.7251	1.6864	2.8258	14.6166	5.2764	3.0457
90013005	FRM	Connecticut	Fairfield	41.1125	-73.407222	173078	31.3	29.1	0.5	0.8768	2.1606	3.6539	10.2495	6.1063	4.8581
90019003	FRM	Connecticut	Fairfield	41.118333	-73.336667	173078	30.3	28	0.5	0.9118	2.3801	3.927	7.5928	6.5692	5.2643
90031003	FRM	Connecticut	Hartford	41.784722	-72.631667	176085	28.3	26.5	0.5	0.603	1.2927	2.1928	15.2107	4.8406	1.5038
90050005	FRM	Connecticut	Litchfield	41.821389	-73.297222	172084	26.1	21.9	0.5	1.28	0.768	3.7888	4.8384	10.9056	0
90090026	FRM	Connecticut	New Haven	41.291111	-72.894167	176080	32.4	29.9	0.5	0.8285	2.1985	3.6339	11.9461	7.9273	2.6145
90090027	FRM	Connecticut	New Haven	41.301111	-72.902778	175080	32.9	30.7	0.5	0.7093	2.2274	3.2349	14.3035	6.0343	3.5897
90091123	FRM	Connecticut	New Haven	41.310833	-72.916944	175081	33.5	31	0.5	0.825	2.1531	3.555	13.5441	7.4472	2.8757
90092008	FRM	Connecticut	New Haven	41.331389	-72.919722	175081	29.2	27.5	0.5	0.8238	2.4443	3.3804	9.8503	5.6978	4.3743
90092123	FRM	Connecticut	New Haven	41.550556	-73.043611	174082	32.2	29.5	0.5	0.751	1.5119	3.2488	13.7974	6.9291	2.666
90113002	FRM	Connecticut	New London	41.524167	-72.076667	180084	27.3	25.3	0.5	0.6413	1.5885	2.8501	10.6702	5.7847	2.7106
100010002	FRM	Delaware	Kent	38.984722	-75.555556	163055	29.7	24.2	0.5	0.4543	0.7121	3.6792	7.8029	8.6383	2.6628
100010003	FRM	Delaware	Kent	39.155	-75.518056	163057	29.6	24.7	0.5	0.4404	0.6627	3.9187	7.4159	9.2318	2.7869
100031007	FRM	Delaware	New Castle	39.551111	-75.730833	160060	28.8	25.2	0.5	1.0996	1.2639	4.2916	5.0427	8.9146	3.857
100031012	FRM	Delaware	New Castle	39.691944	-75.761667	160061	30	26.7	0.5	1.2969	1.4733	3.9112	7.0215	5.8669	5.9221
100032004	FRM	Delaware	New Castle	39.739444	-75.558056	161062	35.7	32.6	0.5	1.8911	1.8673	4.7005	9.4241	9.3003	4.1248
100051002	FRM	Delaware	Sussex	38.644444	-75.613056	163052	30.9	27.1	0.5	0.5934	0.9555	3.6337	10.2359	9.1645	2.361
110010041	FRM	District Of Columbia	District of Columbia	38.897222	-76.952778	153052	32.3	27.8	0.5	0.9772	2.0653	3.8323	9.2137	6.9394	4.3934
110010042	FRM	District Of Columbia	District of Columbia	38.880833	-77.0325	153052	31	26.4	0.5	1.286	2.2719	3.4784	9.7476	8.3051	1.9338
110010043	FRM	District Of Columbia	District of Columbia	38.918889	-77.0125	153052	31.5	26.7	0.5	0.8915	1.8975	4.0085	7.4139	6.9113	5.0165
131390003	FRM	Georgia	Hall	34.300342	-83.8139	111001	29.2	29.2	0.5	0.8333	0.8333	3.7928	5.8616	14.223	0
170190004	FRM	Illinois	Champaign	40.123796	-88.229531	72051	28.6	26.7	0.5	0.5257	0.747	5.2567	1.7983	5.3397	11.3987
170191001	FRM	Illinois	Champaign	40.052242	-88.372549	71050	27.4	24.5	0.5	0.9117	0.7973	4.0398	5.84	7.5103	4.7112
170310022	FRM	Illinois	Cook	41.687165	-87.539315	76065	31.3	30.1	0.5	0.9167	1.6104	4.0935	9.0875	5.4809	7.062
170310050	FRM	Illinois	Cook	41.70757	-87.568574	75066	29.1	26.4	0.5	0.8418	1.1888	3.7108	8.7313	6.4636	4.4879
170310052	FRM	Illinois	Cook	41.965485	-87.749928	74068	32.9	30.7	0.5	0.7918	1.0193	4.4098	9.7038	5.9564	7.5479
170310057	FRM	Illinois	Cook	41.912862	-87.722723	74067	31.3	28.7	0.5	0.7599	0.9549	4.5021	6.4059	7.3848	7.4124
170310076	FRM	Illinois	Cook	41.7514	-87.713488	74066	31.9	27.8	0.5	0.8471	1.1849	3.9965	11.0346	8.9258	2.2499
170311016	FRM	Illinois	Cook	41.801167	-87.831945	73066	34.5	31.2	0.5	0.8086	1.0416	3.6738	14.5866	8.5809	2.1363
170312001	FRM	Illinois	Cook	41.662109	-87.696467	74065	30.9	28.1	0.5	0.7882	1.0157	3.8766	10.4413	8.4314	2.667
170313103	FRM	Illinois	Cook	41.965193	-87.876265	73068	32.6	29.8	0.5	0.7794	0.9721	3.9682	10.9575	8.5985	3.5738
170313301	FRM	Illinois	Cook	41.782766	-87.805377	74066	31.1	27.5	0.5	0.7295	1.0495	3.5459	12.0881	6.0865	4.3557
170314007	FRM	Illinois	Cook	42.060285	-87.863225	73069	28.8	27.7	0.5	0.574	1.0439	4.1252	7.14	8.8369	3.0639
170314201	FRM	Illinois	Cook	42.139996	-87.799227	73069	29.6	28	0.5	0.4498	1.0856	4.2191	7.0593	9.376	2.7261
170434002	FRM	Illinois	DuPage	41.771071	-88.152534	71066	32	28.9	0.5	0.5594	0.8787	4.1007	10.3694	7.5122	4.7901
170650002	FRM	Illinois	Hamilton	38.082155	-88.624943	71032	27.1	22	0.5	1.1749	0.8744	3.5278	6.0645	9.1168	1.3095
170831001	FRM	Illinois	Jersey	39.110539	-90.32408	58040	26.8	23.9	0.5	1.0517	0.7385	3.286	8.8331	8.1894	1.2672
170890003	FRM	Illinois	Kane	42.050403	-88.280015	70068	32.8	28.2	0.5	0.84	1.0693	4.5349	8.3425	11.0559	2.3678
170890007	FRM	Illinois	Kane	41.784717	-88.329374	70066	29	27.4	0.5	0.5035	0.7757	4.021	8.4732	4.9193	7.5489
170971007	FRM	Illinois	Lake	42.467573	-87.810047	73072	27	24.4	0.5	0.3004	0.5774	4.0239	6.2411	5.0091	7.5587
170990007	FRM	Illinois	La Salle	41.293015	-89.049425	66061	26.4	23.4	0.5	0.9024	1.1029	3.6848	6.016	4.9632	6.3419
171110001	FRM	Illinois	McHenry	42.221442	-88.242207	70070	27.7	25.7	0.5	0.5636	0.8338	4.3122	5.358	7.3123	5.7378
171132003	FRM	Illinois	McLean	40.518735	-88.996896	67054	27	25.7	0.5	0.4245	0.6633	4.9087	2.5207	5.3597	10.2153
171150013	FRM	Illinois	Macon	39.866834	-88.925594	68048	29.4	25.1	0.5	1.0737	0.7189	3.9249	8.026	9.6956	1.7079
171191007	FRM	Illinois	Madison	38.704534	-90.139675	60036	36.1	32.4	0.5	1.1785	0.6484	3.549	15.5337	10.4838	0.2353
171192009	FRM	Illinois	Madison	38.903085	-90.143168	60038	30.8	27.5	0.5	1.0622	0.799	3.5877	10.9016	9.5109	1.1653

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_id	_type	_state_name	_county_name	monitor_lat	monitor_long	monitor_gridcell	b_pm25_d_DV	f_pm25_d_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
171193007	FRM	Illinois	Madison	38.860669	-90.105851	60038	29.4	27.3	0.5	0.8216	0.7349	3.911	9.2161	7.6367	3.8253
171430037	FRM	Illinois	Peoria	40.697007	-89.584737	62055	29.7	26.3	0.5	0.4849	0.6949	4.439	5.4307	5.0726	8.8952
171570001	FRM	Illinois	Randolph	38.176278	-89.788459	63032	26.1	23	0.5	0.5402	0.598	3.3059	7.5614	5.4535	4.5799
171613002	FRM	Illinois	Rock Island	41.514727	-90.51735	55062	25.8	22.1	0.5	0.5461	0.6086	3.8234	5.2248	6.3844	5.1816
171630010	FRM	Illinois	Saint Clair	38.612034	-90.160477	60036	29.1	26.7	0.5	0.6895	0.5703	3.4118	10.3994	6.3739	4.0399
171634001	FRM	Illinois	Saint Clair	38.529631	-89.99285	61035	29.3	26.5	0.5	0.9552	0.5815	3.2762	10.8071	7.5324	2.4739
171670012	FRM	Illinois	Sangamon	39.831921	-89.644164	62047	28.9	26.2	0.5	0.7527	0.6481	4.7355	4.6674	7.9936	6.5083
171971002	FRM	Illinois	Will	41.526885	-88.116474	72064	32	29.6	0.5	0.8099	1.1015	4.4974	8.7314	7.5122	5.9515
171971011	FRM	Illinois	Will	41.221537	-88.190967	71061	25.6	23.8	0.5	0.7611	1.3443	3.7564	5.0051	5.0464	6.4483
172010013	FRM	Illinois	Winnebago	42.263081	-89.092767	64070	28.8	26.4	0.5	0.5762	0.6311	4.0043	7.4786	6.5835	5.8434
180030004	FRM	Indiana	Allen	41.094722	-85.101944	93062	30.2	29.1	0.5	0.3564	0.6237	4.455	8.613	6.2964	7.1874
180190006	FRM	Indiana	Clark	38.277675	-85.740153	92036	35.3	30.8	0.5	0.6687	1.0352	4.5751	9.9387	7.3385	6.4091
180350006	FRM	Indiana	Delaware	40.201141	-85.387999	92054	28	24	0.5	0.7271	0.5238	3.8559	6.5291	9.4787	2.1833
180370005	FRM	Indiana	Dubois	38.404778	-86.928322	83036	31.1	26.4	0.5	0.3565	0.7298	4.7778	5.8105	9.8263	4.1492
180431004	FRM	Indiana	Floyd	38.308056	-85.834167	91036	30.1	26	0.5	1.0179	1.0802	3.7521	8.5502	8.5484	2.6057
180670003	FRM	Indiana	Howard	40.485479	-86.132879	86056	29.7	25.7	0.5	0.935	0.936	4.532	4.826	8.206	5.372
180830004	FRM	Indiana	Knox	38.740882	-87.484733	79038	30.2	25.1	0.5	0.5063	0.6172	3.8293	9.2983	10.1969	0.8251
180890006	FRM	Indiana	Lake	41.636127	-87.440843	76065	31	29.2	0.5	1.1926	2.1799	3.9351	8.2728	7.8333	4.0672
180890022	FRM	Indiana	Lake	41.606667	-87.304722	77065	30.8	29.8	0.5	1.6398	3.31	3.0974	9.1404	5.1016	4.0691
180890026	FRM	Indiana	Lake	41.573239	-87.405905	77064	32.6	30	0.5	1.0162	2.0209	3.4721	11.5444	8.8369	1.8745
180890027	FRM	Indiana	Lake	41.546593	-87.426481	76064	28.8	26.2	0.5	1.0058	1.7964	3.5687	7.5356	8.8818	2.1728
180890031	FRM	Indiana	Lake	41.598505	-87.342991	77065	30.9	29.3	0.5	1.1678	2.3909	4.1286	6.5587	11.5983	0
180892004	FRM	Indiana	Lake	41.585496	-87.474486	76065	29.8	28.1	0.5	0.9947	1.3056	3.72	8.1997	9.404	2.3392
180892010	FRM	Indiana	Lake	41.678349	-87.508345	76065	30.4	28.5	0.5	0.8681	1.4967	3.5022	9.0698	10.9257	0
180910011	FRM	Indiana	LaPorte	41.707212	-86.891216	80066	29.1	26.2	0.5	0.9003	2.3069	3.4604	7.1177	10.4656	0
180950009	FRM	Indiana	Madison	40.111975	-85.679952	90052	29.2	26	0.5	0.7739	0.6138	4.5768	4.7952	8.5456	5.418
180970043	FRM	Indiana	Marion	39.744957	-86.166496	87049	35.3	32.1	0.5	0.6536	1.0907	4.658	10.0181	7.686	6.4333
180970066	FRM	Indiana	Marion	39.760437	-86.108848	87049	34.4	30.2	0.5	0.7175	1.1846	4.6501	8.8256	12.0008	2.0393
180970078	FRM	Indiana	Marion	39.811097	-86.114469	87049	32.7	29.9	0.5	0.7249	1.1768	4.7497	7.4413	9.1593	4.9878
180970081	FRM	Indiana	Marion	39.788903	-86.214628	87049	34.1	29.8	0.5	0.8154	1.0922	4.483	8.949	9.5794	3.6096
180970083	FRM	Indiana	Marion	39.774944	-86.122053	87049	33.2	29.1	0.5	0.8274	1.0956	4.5173	8.161	9.7437	3.5215
181270024	FRM	Indiana	Porter	41.6175	-87.199167	78065	29.2	28.4	0.5	1.3616	2.5161	3.4535	7.4713	7.3257	2.5276
181410014	FRM	Indiana	St. Joseph	41.66346	-86.207826	85066	28.7	27.1	0.5	0.5839	0.7277	3.6089	9.7021	6.9143	3.8485
181470009	FRM	Indiana	Spencer	38.167523	-86.983214	83034	27.3	24.4	0.5	0.5081	0.6564	4.6791	3.5218	8.9638	4.7916
181570008	FRM	Indiana	Tippecanoe	40.431639	-86.8525	82054	28.9	26.5	0.5	0.8811	1.1119	4.1414	6.7334	7.3867	5.0657
181630006	FRM	Indiana	Vanderburgh	37.971727	-87.567236	79031	30.4	27.5	0.5	0.9589	0.7038	3.0644	13.3524	7.98	1.0324
181630016	FRM	Indiana	Vanderburgh	37.974436	-87.532289	79031	29.1	27	0.5	0.8775	0.7217	3.5623	10.0665	7.5692	3.196
181670018	FRM	Indiana	Vigo	39.486111	-87.401389	79045	29.4	25.4	0.5	0.6484	0.696	4.2175	6.3202	7.3675	5.3659
181670023	FRM	Indiana	Vigo	39.456238	-87.370553	79045	29.5	25.9	0.5	0.5369	0.8695	4.5596	4.9979	6.9246	7.0066
190130008	FRM	Iowa	Black Hawk	42.493056	-92.343889	42070	27.9	25.6	0.5	0.6661	0.6737	3.6663	8.8666	4.814	6.5076
190450021	FRM	Iowa	Clinton	41.874999	-90.177574	57066	28.3	26.2	0.5	0.4624	0.5168	4.3792	5.6304	4.5424	9.3568
191032001	FRM	Iowa	Johnson	41.657232	-91.503478	48063	29.4	26.3	0.5	0.6922	0.6026	3.4018	11.1054	6.2829	3.6848
191130037	FRM	Iowa	Linn	42.008333	-91.678611	47066	25.2	23.1	0.5	0.4019	0.5501	4.1101	4.0448	3.7595	9.4445
191370002	FRM	Iowa	Montgomery	40.969112	-95.044951	24056	23	20.9	0.5	0.9291	0.6023	3.2479	5.7437	4.6894	5.2732
191390015	FRM	Iowa	Muscatine	41.400948	-91.067814	52061	35.1	33.4	0.5	0.5185	0.6222	5.3924	7.9503	5.3924	11.8218
191471002	FRM	Iowa	Palo Alto	43.123704	-94.693518	26076	23.6	20.8	0.5	0.6632	0.5616	3.959	3.0623	3.6111	9.0758
191530030	FRM	Iowa	Polk	41.603183	-93.6433	34062	25.2	23.1	0.5	0.7744	0.5223	3.1651	8.3524	4.6795	4.9528
191532510	FRM	Iowa	Polk	41.603517	-93.7479	33062	23.4	21.3	0.5	0.7832	0.5173	3.143	6.771	4.5796	4.9866
191550009	FRM	Iowa	Pottawattamie	41.264171	-95.896124	18058	25.4	24.4	0.5	1.7125	0.7818	1.8252	13.6169	4.6945	0.4542
191630015	FRM	Iowa	Scott	41.530011	-90.587611	55062	28.1	26.7	0.5	0.498	0.6087	4.8693	3.7073	5.0907	10.3197
191630018	FRM	Iowa	Scott	41.550005	-90.600115	55062	28.8	26.5	0.5	0.562	0.6939	4.6471	4.5091	4.9109	9.7511
191630019	FRM	Iowa	Scott	41.517772	-90.618755	55062	33.8	29.5	0.5	0.6718	0.6457	3.8603	11.9532	5.4658	6.2796
191770006	FRM	Iowa	Van Buren	40.695078	-92.006318	45054	25.9	23.7	0.5	0.5434	0.7049	4.2667	3.9968	3.5462	10.2123
191930017	FRM	Iowa	Woodbury	42.517968	-96.387903	15070	28.3	26.4	0.5	0.8766	0.5882	3.422	10.0782	2.9714	8.1021
200910007	FRM	Kansas	Johnson	38.974444	-94.686944	27037	21.2	19.1	0.5	0.8386	0.8381	2.463	6.4463	3.2363	4.6616
200910010	FRM	Kansas	Johnson	38.83859	-94.74643	27036	19.5	17.8	0.5	0.7503	0.6588	2.4339	5.4717	3.0744	4.6665
201070002	FRM	Kansas	Linn	38.135833	-94.731944	27030	21.2	19.1	0.5	0.8463	0.7119	2.6039	6.1692	4.0549	4.0915

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_id	_type	_state_name	_county_name	monitor_lat	monitor_long	monitor_gridcell	b_pm25_d_DV	f_pm25_d_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
201730008	FRM	Kansas	Sedgwick	37.659722	-97.297222	8025	21.5	19.8	0.5	0.5258	0.3365	3.6388	3.3864	3.786	7.6351
201730009	FRM	Kansas	Sedgwick	37.651111	-97.362222	8025	21.9	20	0.5	0.5729	0.214	3.0241	5.5437	5.3776	4.8221
201730010	FRM	Kansas	Sedgwick	37.701111	-97.313889	8025	21.7	19.8	0.5	0.5445	0.1974	2.9025	5.9327	5.1667	4.6248
201910002	FRM	Kansas	Sumner	37.476944	-97.366389	8023	21.1	19.3	0.5	0.5083	0.3253	3.1517	4.9613	3.3753	6.527
202090021	FRM	Kansas	Wyandotte	39.1175	-94.635556	27039	22.7	21.1	0.5	0.7708	1.0241	2.2677	9.0525	3.1611	4.2884
202090022	FRM	Kansas	Wyandotte	39.045833	-94.694444	27038	21.5	19.6	0.5	0.9783	0.8758	2.1313	8.3367	3.6671	2.9657
210130002	FRM	Kentucky	Bell	36.608056	-83.736944	108022	26.5	24.3	0.5	0.8796	1.5184	1.9504	13.5076	5.3008	0.6448
210190017	FRM	Kentucky	Boyd	38.459167	-82.640556	114040	30.4	24.1	0.5	0.5766	1.0744	3.7047	7.6002	12.6917	0.2088
210290006	FRM	Kentucky	Bullitt	37.985556	-85.713056	92033	31.3	26.4	0.5	0.834	1.1329	4.1539	7.7389	9.16	3.3406
210430500	FRM	Kentucky	Carter	38.238333	-82.988333	112038	26.3	20.6	0.5	0.7667	1.2633	3.2517	5.2817	8.7133	1.365
210470006	FRM	Kentucky	Christian	36.911667	-87.323611	82022	31	26.2	0.5	1.1729	0.8668	4.6875	4.8514	12.5597	2.1805
210590005	FRM	Kentucky	Daviess	37.780833	-87.075556	83030	29.7	24.1	0.5	0.4002	0.6799	4.2258	5.7167	10.4289	2.7782
210670012	FRM	Kentucky	Fayette	38.065	-84.5	101035	29.2	24	0.5	0.6345	0.8396	4.0554	5.6847	8.5945	4.0855
210670014	FRM	Kentucky	Fayette	38.038889	-84.5075	101035	28.9	25	0.5	0.5826	0.7985	3.9378	7.8896	7.9748	3.8078
210730006	FRM	Kentucky	Franklin	38.219361	-84.8385	98036	28.8	22.4	0.5	0.6732	0.9037	3.8303	6.6904	10.3315	1.2152
210930006	FRM	Kentucky	Hardin	37.706389	-85.851667	92030	31.8	24.9	0.5	0.8307	1.09	4.3423	5.6589	9.905	3.1779
211010014	FRM	Kentucky	Henderson	37.871389	-87.463333	80031	28.2	25.2	0.5	1.4712	0.6785	3.4593	8.4781	8.8967	1.3514
211110043	FRM	Kentucky	Jefferson	38.23319	-85.81566	91035	31.7	26.7	0.5	1.1855	1.0381	3.7768	10.1856	10.2845	0.7544
211110044	FRM	Kentucky	Jefferson	38.19113	-85.77935	92035	33.1	27	0.5	1.0631	1.0742	4.2716	8.4163	11.4014	1.4378
211110048	FRM	Kentucky	Jefferson	38.24024	-85.73195	92035	33.1	26.5	0.5	0.6003	1.0276	4.1239	9.1749	10.4657	2.3577
211110051	FRM	Kentucky	Jefferson	38.06091	-85.89804	91034	31.2	23.3	0.5	1.083	1.0572	4.538	5.1344	13.7752	0
211170007	FRM	Kentucky	Kenton	39.0725	-84.525	99044	29.8	24.7	0.5	0.7592	1.0089	4.0715	6.6941	11.2331	2.0412
211451004	FRM	Kentucky	McCracken	37.065556	-88.637778	72022	31.9	26.4	0.5	0.7907	0.8683	3.2377	12.8752	10.032	0
211510003	FRM	Kentucky	Madison	37.738056	-84.285556	103032	27.8	23	0.5	0.6558	1.0158	4.1438	4.7182	8.7931	3.961
211830032	FRM	Kentucky	Ohio	37.319725	-86.956097	84026	29.4	24.8	0.5	0.6165	0.8652	4.4701	5.0907	10.8155	2.8644
211950002	FRM	Kentucky	Pike	37.482778	-82.535278	116032	27.8	21.8	0.5	0.649	1.1729	3.0431	8.5244	9.4497	0.1771
230010011	FRM	Maine	Androscoggin	44.089406	-70.214219	186110	23.5	22	0.5	0.4619	0.6966	1.5953	13.4758	5.0474	0.324
230050015	FRM	Maine	Cumberland	43.678056	-70.256667	187107	20.8	19.2	0.5	0.3883	0.6467	1.2533	12.3333	4.08	0.1633
230090103	FRM	Maine	Hancock	44.37705	-68.2609	197117	19.4	17.1	0.5	0.5658	0.6316	2.3748	5.3365	7.3591	0.368
230110016	FRM	Maine	Kennebec	44.312319	-69.786717	188113	19.8	18.6	0.5	0.3549	0.6365	1.1645	12.1689	3.1841	0.5104
230172011	FRM	Maine	Oxford	44.551419	-70.546319	183114	22.4	21.5	0.5	0.3219	0.5127	0.9925	16.0254	2.841	0.2973
230190002	FRM	Maine	Penobscot	44.798796	-68.769107	193119	21.7	20	0.5	0.7399	1.2651	1.9395	9.2908	5.0759	0.8634
240031003	FRM	Maryland	Anne Arundel	39.169533	-76.627933	155055	33.6	29.8	0.5	0.9431	1.4545	4.3941	7.8744	10.1737	4.6458
240051007	FRM	Maryland	Baltimore	39.460833	-76.631111	154058	31.5	27.6	0.5	0.9713	1.457	4.2677	7.6053	10.9843	1.767
240053001	FRM	Maryland	Baltimore	39.310833	-76.474444	156057	32.7	30.2	0.5	0.7477	1.7546	3.2526	14.3478	6.6463	3.0191
240251001	FRM	Maryland	Harford	39.41	-76.296667	157058	28.7	24.8	0.5	0.7289	1.2496	3.7488	5.9356	7.7059	3.8529
240313001	FRM	Maryland	Montgomery	39.114444	-77.106944	152054	28.4	23.9	0.5	0.8806	1.0402	3.473	7.7983	9.5836	1.632
240338003	FRM	Maryland	Prince George's	38.81194	-76.74417	155052	31.1	26.2	0.5	0.9429	1.5937	4.0093	7.0692	10.2126	3.42
240430009	FRM	Maryland	Washington	39.565556	-77.721944	146057	29.5	27.8	0.5	0.7149	1.2655	3.4723	11.2247	6.0829	4.2183
245100006	FRM	Maryland	Baltimore (City)	39.340556	-76.582222	155057	32.9	27.9	0.5	0.893	1.2984	4.0942	9.4849	11.5106	1.1236
245100007	FRM	Maryland	Baltimore (City)	39.344444	-76.685278	154057	32.5	29	0.5	1.1527	2.1233	3.9433	8.281	7.9777	4.3377
245100008	FRM	Maryland	Baltimore (City)	39.28768	-76.547616	155056	34.8	30.8	0.5	0.8306	1.1749	4.0534	11.8037	11.3088	1.0488
245100040	FRM	Maryland	Baltimore (City)	39.298056	-76.604722	155056	34.1	31.7	0.5	0.8802	1.6626	3.4882	13.2682	7.0742	3.912
250035001	FRM	Massachusetts	Berkshire	42.447381	-73.258025	170090	27.4	25.3	0.5	0.5005	0.7874	1.8128	15.8601	4.2265	1.161
250051004	FRM	Massachusetts	Bristol	41.683279	-71.169171	186087	24.7	21.6	0.5	0.7427	0.8863	2.7809	8.5043	7.8867	0.5695
250092006	FRM	Massachusetts	Essex	42.474671	-70.971358	185095	26	23.6	0.5	0.6057	1.141	3.092	8.3049	7.2424	2.2825
250095005	FRM	Massachusetts	Essex	42.77077	-71.102259	184097	25.4	22.5	0.5	0.528	0.9059	2.6746	8.977	8.2998	0.8268
250096001	FRM	Massachusetts	Essex	42.698245	-71.164951	183096	26.9	24.1	0.5	0.5924	0.92	2.7762	10.5559	8.099	0.8352
250130008	FRM	Massachusetts	Hampden	42.19438	-72.555112	176089	27.9	24.8	0.5	0.4329	1.1715	2.3939	12.4787	4.5585	2.9796
250130016	FRM	Massachusetts	Hampden	42.108581	-72.590614	176088	30.8	28.4	0.5	0.5389	1.0192	2.5919	16.1182	6.5636	1.1809
250132009	FRM	Massachusetts	Hampden	42.105439	-72.59717	176088	30.7	28.1	0.5	0.4037	1.038	2.1048	17.3	4.152	2.5085
250170009	FRM	Massachusetts	Middlesex	42.62668	-71.362068	182095	21.9	18	0.5	0.5238	0.9977	2.2072	6.7395	5.9146	1.2596
250230004	FRM	Massachusetts	Plymouth	42.082028	-71.0148	186091	27.7	24	0.5	0.6321	1.1363	3.3938	8.0748	8.4393	2.1407
250250002	FRM	Massachusetts	Suffolk	42.348873	-71.097163	185093	28.7	26.6	0.5	0.7767	1.0851	2.938	12.441	7.1598	1.0921
250250027	FRM	Massachusetts	Suffolk	42.371933	-71.062031	185093	27.4	24.5	0.5	0.7588	1.0275	2.8209	10.8121	6.9905	0.9479
250250042	FRM	Massachusetts	Suffolk	42.3294	-71.0825	185093	28.1	26.2	0.5	0.5968	1.0928	3.1377	10.9222	7.0602	2.4083
250250043	FRM	Massachusetts	Suffolk	42.3631	-71.0542	185093	27.9	26	0.5	0.5955	1.2968	2.4101	13.692	4.5256	2.6707

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_id	_type	_state_name	_county_name	monitor_lat	monitor_long	monitor_gridcell	b_pm25_d_DV	f_pm25_d_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
250270016	FRM	Massachusetts	Worcester	42.258571	-71.799067	180091	29	25.6	0.5	0.6378	1.0599	2.9598	11.6216	7.7879	1.7572
250270023	FRM	Massachusetts	Worcester	42.263877	-71.794186	180091	28.2	25.1	0.5	0.6067	1.0164	2.5766	12.5184	6.2261	1.5881
260050003	FRM	Michigan	Allegan	42.767786	-86.148577	84076	30.1	28.3	0.5	0.2907	0.5648	4.2488	8.7865	5.1287	8.0759
260170014	FRM	Michigan	Bay	43.571391	-83.890721	98086	25.5	23.8	0.5	0.7758	0.6479	3.0201	8.7577	4.0847	5.4108
260210014	FRM	Michigan	Berrien	42.19779	-86.309694	83071	28.5	25.3	0.5	0.9444	0.9412	4.1757	5.6036	9.6439	3.0081
260490021	FRM	Michigan	Genesee	43.047224	-83.670159	100081	25.8	24.1	0.5	1.3068	0.9088	3.865	4.7221	5.041	7.037
260650012	FRM	Michigan	Ingham	42.738618	-84.534633	95078	27.1	24.7	0.5	1.3305	0.8971	3.655	6.7067	7.133	4.1465
260770008	FRM	Michigan	Kalamazoo	42.278067	-85.54189	89072	28.1	26.4	0.5	0.8111	1.1571	3.0004	10.8338	5.4182	4.4748
260810020	FRM	Michigan	Kent	42.984173	-85.671339	87079	29.2	27.3	0.5	0.3601	0.6648	3.9057	8.7255	4.5428	7.6175
260990009	FRM	Michigan	Macomb	42.731394	-82.793463	106079	30.7	27	0.5	1.9815	0.9132	3.9695	7.1165	7.3862	4.64
261130001	FRM	Michigan	Missaukee	44.310555	-84.891865	90092	21.9	18.9	0.5	0.2396	0.5591	2.3361	7.8269	3.7537	3.9734
261150005	FRM	Michigan	Monroe	41.763889	-83.471944	103070	31.1	27.9	0.5	0.4415	0.6895	4.3043	8.1111	8.7853	4.35
261210040	FRM	Michigan	Muskegon	43.233061	-86.23858	83081	28	25.8	0.5	0.4089	0.6827	3.6638	9.3318	5.9144	5.2308
261250001	FRM	Michigan	Oakland	42.463063	-83.183199	104076	32.9	29	0.5	2.9925	1.1738	4.5039	6.3824	8.4619	5.4054
261390005	FRM	Michigan	Ottawa	42.894451	-85.852734	86078	28.4	27.5	0.5	0.3878	0.6925	4.2658	7.0081	5.0691	8.2269
261470005	FRM	Michigan	St. Clair	42.953336	-82.456229	108082	35	32.2	0.5	1.9267	0.9628	4.2571	10.9409	8.6065	4.4023
261610008	FRM	Michigan	Washtenaw	42.240565	-83.599602	102074	31.3	27.3	0.5	0.295	0.649	3.599	11.977	3.953	7.2865
261630001	FRM	Michigan	Wayne	42.22862	-83.2082	104074	31.5	29.6	0.5	0.7005	0.958	4.4051	9.0641	5.6199	8.0194
261630015	FRM	Michigan	Wayne	42.302786	-83.10653	105075	34.8	32.7	0.5	2.4672	1.0631	4.5935	8.3765	8.596	5.7372
261630016	FRM	Michigan	Wayne	42.357808	-83.096033	105075	33.7	30.2	0.5	2.5825	0.9693	4.3617	7.7472	8.0125	5.1873
261630019	FRM	Michigan	Wayne	42.43084	-83.000138	105076	33.3	30.7	0.5	2.5675	0.9626	4.2117	9.3555	7.6873	5.0996
261630025	FRM	Michigan	Wayne	42.423063	-83.426263	103076	30.5	28.4	0.5	1.3204	0.9606	4.0462	8.5161	5.1887	7.4087
261630033	FRM	Michigan	Wayne	42.306674	-83.148754	105075	37.1	35.2	0.5	2.7834	1.1231	4.8853	9.2938	9.2365	6.0024
261630036	FRM	Michigan	Wayne	42.187289	-83.153905	105074	29.3	27.1	0.5	0.7719	0.827	4.4934	5.2928	5.4858	8.4905
261630039	FRM	Michigan	Wayne	42.323341	-83.068473	105075	32.9	29.5	0.5	3.5861	1.0266	4.5699	5.693	10.3763	3.2751
270370470	FRM	Minnesota	Dakota	44.73846	-93.23725	35091	23.3	21.4	0.5	0.693	0.7962	3.1648	6.6529	4.4831	5.1883
270530961	FRM	Minnesota	Hennepin	44.87551	-93.25892	35092	22.5	20.5	0.5	0.4487	0.8553	3.5875	3.9735	4.2143	7.043
270530963	FRM	Minnesota	Hennepin	44.95366	-93.25821	35093	23	21.3	0.5	0.3375	0.45	3.5775	4.68	2.6325	8.9325
270531007	FRM	Minnesota	Hennepin	45.03972	-93.29874	35094	25.4	23.4	0.5	0.4828	0.8705	3.808	5.8305	4.293	7.693
271230866	FRM	Minnesota	Ramsey	44.89926	-93.01708	37092	26	23.9	0.5	0.4018	0.6935	4.0396	5.3097	4.6995	7.9331
271230868	FRM	Minnesota	Ramsey	44.95072	-93.09827	36093	27	25.1	0.5	0.7968	0.8092	3.445	8.7674	5.1159	5.3618
271230871	FRM	Minnesota	Ramsey	44.95939	-93.03587	36093	29.1	26.3	0.5	0.4705	0.9549	4.8654	3.9867	7.1185	7.6479
271377001	FRM	Minnesota	Saint Louis	47.523355	-92.536305	39117	17.2	15.7	0.5	0.7758	0.4383	1.5349	8.0779	3.3994	1.2373
271377550	FRM	Minnesota	Saint Louis	46.81826	-92.08936	42110	20.2	18.8	0.5	0.8745	0.5128	2.8869	4.8683	5.8804	2.4239
271377551	FRM	Minnesota	Saint Louis	46.76643	-92.13354	41110	23.1	21.5	0.5	0.9095	0.5266	2.766	8.1454	4.6839	3.7878
271390505	FRM	Minnesota	Scott	44.791437	-93.512534	33091	22.6	20.6	0.5	0.6328	0.748	3.1281	6.1523	4.1071	5.5657
271453052	FRM	Minnesota	Stearns	45.549839	-94.13345	29098	20.3	18.5	0.5	0.8785	0.5781	2.9978	4.042	3.67	6.0147
280330002	FRM	Mississippi	DeSoto	34.82166	-89.98783	63001	25.7	25.7	0.5	0.7667	1.3111	3.3449	6.0029	10.2261	0
290210005	FRM	Missouri	Buchanan	39.741694	-94.858584	26044	26.1	24.6	0.5	0.8371	0.6657	2.8131	10.9697	4.3658	4.2601
290370003	FRM	Missouri	Cass	38.770278	-94.58	28035	22.3	20.1	0.5	0.8501	0.7464	2.8819	5.6395	3.6491	5.4943
290470005	FRM	Missouri	Clay	39.30309	-94.376623	29040	23.9	21.5	0.5	0.4382	0.5206	3.0404	7.5133	3.8105	5.5432
290770032	FRM	Missouri	Greene	37.205346	-93.283526	38021	24.6	22.8	0.5	0.6767	0.6767	2.52	10.57	4.5033	3.01
290950034	FRM	Missouri	Jackson	39.104758	-94.570796	28038	25.5	24	0.5	0.9236	1.2367	2.8019	9.3505	3.8745	5.2897
291860006	FRM	Missouri	Sainte Genevieve	37.967281	-90.051204	61030	27.7	24.4	0.5	0.8785	0.4978	3.1269	9.9826	7.8166	1.5448
291892003	FRM	Missouri	Saint Louis	38.649771	-90.350659	58036	28.1	25.2	0.5	0.8058	0.7199	3.4271	9.0689	6.781	3.6933
295100007	FRM	Missouri	St. Louis City	38.542551	-90.263711	59035	29.8	27.4	0.5	0.5523	0.7293	3.7485	10.1489	5.9631	5.5113
295100085	FRM	Missouri	St. Louis City	38.656349	-90.198198	59036	30.7	27	0.5	0.8982	0.6758	3.9697	8.7567	9.4918	2.7925
295100087	FRM	Missouri	St. Louis City	38.642493	-90.185681	59036	30.1	27.6	0.5	0.8082	0.7115	3.5316	11.0313	7.0251	3.6968
310550019	FRM	Nebraska	Douglas	41.245947	-95.973128	18058	23	21.8	0.5	0.9578	0.6789	2.624	8.1476	3.4006	5.0153
310550052	FRM	Nebraska	Douglas	41.333056	-96.099722	17059	22.9	21.7	0.5	1.2456	0.7356	2.491	8.655	3.0888	4.6817
310790004	FRM	Nebraska	Hall	40.942099	-98.364967	1055	17.5	17.5	0.5	0.768	0.5632	2.0139	6.2976	2.4064	4.0107
311090022	FRM	Nebraska	Lancaster	40.81259	-96.68302	13054	17.8	16.3	0.5	1.321	0.6328	1.5694	7.855	4.2482	0.2029
311530007	FRM	Nebraska	Sarpy	41.133613	-95.955835	18057	24.1	23	0.5	1.4866	0.7221	1.9305	11.899	5.3481	0.2547
311770002	FRM	Nebraska	Washington	41.551136	-96.146753	16061	20.8	19.6	0.5	0.9314	0.506	2.511	6.9643	3.1394	4.6817
330012004	FRM	New Hampshire	Belknap	43.565278	-71.495833	179103	17.6	14.2	0.5	0.4956	0.5763	2.0041	4.8036	6.9698	0.2496
330090010	FRM	New Hampshire	Grafton	43.62957	-72.226083	174102	19	17.2	0.5	0.4511	0.5927	1.5492	9.1235	4.7288	0.5489
330111015	FRM	New Hampshire	Hillsborough	42.76186	-71.44455	181096	26.9	24.9	0.5	0.6633	1.3347	2.4549	11.6786	6.6567	1.6217

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330131006	FRM	New Hampshire	Merrimack	43.132444	-71.45827	180099	24.4	21.5	0.5	0.5685	1.1476	2.026	10.8129	5.6106	1.363
330150014	FRM	New Hampshire	Rockingham	43.075278	-70.748056	185100	24.2	21.7	0.5	0.458	0.8772	2.3133	9.3775	8.1616	0.7569
330190003	FRM	New Hampshire	Sullivan	43.364444	-72.338333	174100	20.6	18.5	0.5	0.4768	0.6062	1.7361	9.7293	5.2522	0.7532
340030003	FRM	New Jersey	Bergen	40.852256	-73.973314	169075	34.9	30.7	0.5	1.0968	2.31	4.9683	6.6837	9.5376	5.1581
340070003	FRM	New Jersey	Camden	39.923042	-75.097617	164064	34.7	30	0.5	1.7016	1.405	4.3166	10.6023	10.65	1.518
340071007	FRM	New Jersey	Camden	39.989036	-75.050008	164065	33.6	30.8	0.5	1.4508	1.9873	3.9053	11.2814	6.741	4.7599
340171003	FRM	New Jersey	Hudson	40.725454	-74.05229	169073	35.9	35.1	0.5	0.9905	2.0636	4.1321	13.6463	6.3523	6.0097
340172002	FRM	New Jersey	Hudson	40.772793	-74.031718	169074	37.8	33.7	0.5	1.0579	2.069	3.7763	15.5909	7.9543	2.7701
340210008	FRM	New Jersey	Mercer	40.222411	-74.763167	165068	33.2	30	0.5	0.9154	1.9887	4.0405	10.4801	6.5974	5.3979
340230006	FRM	New Jersey	Middlesex	40.472786	-74.422515	167070	30.7	26.8	0.5	0.7253	1.6441	3.9733	8.3793	8.5267	3.0455
340270004	FRM	New Jersey	Morris	40.801584	-74.483817	166073	28.8	25.1	0.5	0.7018	1.8499	3.607	7.0411	6.478	4.242
340273001	FRM	New Jersey	Morris	40.787628	-74.676301	165073	28	23.6	0.5	0.4569	0.5592	3.5258	7.6346	9.8524	0.8151
340292002	FRM	New Jersey	Ocean	39.994908	-74.170447	170067	28.5	23.7	0.5	0.9913	1.5501	3.7036	6.6977	9.6457	1.0038
340310005	FRM	New Jersey	Passaic	40.918381	-74.168092	168075	32.8	30.7	0.5	0.9802	2.5161	4.164	8.8423	6.6127	5.9603
340390004	FRM	New Jersey	Union	40.64144	-74.208365	168072	36.2	33.2	0.5	1.1244	3.7975	3.4777	13.2421	6.1848	4.4117
340390006	FRM	New Jersey	Union	40.673406	-74.213889	168073	35.2	33	0.5	1.2017	4.017	3.8453	10.918	6.386	5.562
360050080	FRM	New York	Bronx	40.83606	-73.92009	170075	35.7	33.8	0.5	1.2243	2.6541	3.9332	12.5612	7.0221	4.6644
360050110	FRM	New York	Bronx	40.81618	-73.902	170074	33.6	31.2	0.5	1.0869	2.7491	4.5393	6.4892	7.1605	6.9048
360130011	FRM	New York	Chautauqua	42.29071	-79.58961	129079	25.9	21.3	0.5	0.6898	0.7408	3.2046	6.5414	7.4655	1.9405
360290005	FRM	New York	Erie	42.876907	-78.809526	133085	30.2	29.1	0.5	1.0944	0.8352	3.5712	8.6976	5.7312	6.6816
360291007	FRM	New York	Erie	42.8273	-78.84984	133085	29.7	27.3	0.5	0.9922	0.8122	4.0084	7.11	8.8957	3.9072
360310003	FRM	New York	Essex	44.39308	-73.8589	162106	16.6	14.4	0.5	0.287	0.18	1.5485	6.8185	4.3645	1.0945
360470122	FRM	New York	Kings	40.71961	-73.94771	170073	33.5	30.2	0.5	1.1849	2.0254	4.5809	8.7238	10.8868	1.7858
360551007	FRM	New York	Monroe	43.14618	-77.54817	141089	26.7	24.7	0.5	0.4794	0.819	3.5831	7.2164	5.5244	5.6471
360590008	FRM	New York	Nassau	40.63103	-73.73388	171073	30.2	28.6	0.5	1.0783	2.4984	3.9219	8.0213	6.6864	4.9751
360610056	FRM	New York	New York	40.75912	-73.96661	170074	36.8	34.1	0.5	0.9722	2.2274	4.6031	10.317	6.7285	7.2808
360610079	FRM	New York	New York	40.7997	-73.93432	170074	34.7	31.3	0.5	1.3815	2.2346	4.6934	8.9262	11.3127	1.6306
360632008	FRM	New York	Niagara	43.08218	-79.00106	131087	27.2	25	0.5	0.8053	0.7908	3.1047	8.627	5.4915	4.568
360671015	FRM	New York	Onondaga	43.05235	-76.05921	151091	24.2	21.5	0.5	0.6355	0.6345	3.2319	6.4672	7.484	2.4822
360710002	FRM	New York	Orange	41.49916	-74.00885	168080	27.9	23.6	0.5	0.906	1.2367	3.6188	7.3068	10.0109	0.6849
360810124	FRM	New York	Queens	40.73614	-73.82153	171074	31.9	29.6	0.5	0.9906	2.3579	4.0817	7.974	6.4259	5.9943
360850067	FRM	New York	Richmond	40.59664	-74.12525	169072	29.5	26.6	0.5	0.9889	2.7505	3.3954	8.9415	7.0924	2.6935
360893001	FRM	New York	St. Lawrence	44.67811	-74.95151	154107	18.3	14.9	0.5	0.4178	0.3383	2.2067	4.6231	6.7399	1.224
361010003	FRM	New York	Steuben	42.09142	-77.20978	145080	24.8	19.8	0.5	0.4013	0.4502	2.8979	6.4264	9.8557	0.9312
361030002	FRM	New York	Suffolk	40.74529	-73.41919	173075	29.1	24.6	0.5	0.9504	1.9339	3.695	6.6088	7.6595	2.9853
361191002	FRM	New York	Westchester	40.93149	-73.76575	171076	31.8	27.7	0.5	1.2035	2.3677	3.9432	7.6753	8.0158	3.4403
370010002	FRM	North Carolina	Alamance	36.089004	-79.407821	141023	28.3	23.6	0.5	0.5085	0.7041	3.0001	11.2793	9.152	0.032
370210034	FRM	North Carolina	Buncombe	35.6075	-82.583333	118015	27.2	22	0.5	0.4605	0.6856	2.7429	10.7681	9.1963	0.2384
370330001	FRM	North Carolina	Caswell	36.307033	-79.467417	140025	27.2	22.6	0.5	0.5079	0.6149	3.1011	9.9983	9.1161	0
370350004	FRM	North Carolina	Catawba	35.728889	-81.365556	127017	29.6	25.7	0.5	0.5237	1.77	2.2847	14.4421	5.0346	1.3818
370510009	FRM	North Carolina	Cumberland	35.041416	-78.953112	146014	27.7	24.8	0.5	0.6799	0.6534	2.9757	11.2709	8.3838	0
370570002	FRM	North Carolina	Davidson	35.814444	-80.2625	135019	28.8	24	0.5	0.6257	0.9298	3.2012	10.3296	9.366	0.1649
370610002	FRM	North Carolina	Duplin	34.954823	-77.960781	154015	24.1	20	0.5	0.4916	0.6415	2.431	9.7557	6.6605	0.2101
370650004	FRM	North Carolina	Edgecombe	35.93355	-77.75007	153024	25.2	22.2	0.5	0.4868	1.0439	2.4602	11.2419	6.2349	0.4417
370670022	FRM	North Carolina	Forsyth	36.110556	-80.226667	135022	28.5	24.7	0.5	0.4027	1.2725	2.4539	13.3145	5.3081	1.6855
370670030	FRM	North Carolina	Forsyth	36.026	-80.342	134021	29	24	0.5	0.4452	0.9901	2.88	11.3891	7.3996	0.8468
370710016	FRM	North Carolina	Gaston	35.253056	-81.153333	129013	27.4	21.9	0.5	0.767	0.9392	3.1612	8.4217	9.6478	0.164
371070004	FRM	North Carolina	Lenoir	35.231459	-77.568792	156018	22.9	19.4	0.5	0.2575	0.6448	1.618	12.3404	4.4489	0
371110004	FRM	North Carolina	McDowell	35.687404	-81.993789	122016	28.7	23.2	0.5	0.5985	0.7914	3.1338	10.5464	9.477	0.2169
371170001	FRM	North Carolina	Martin	35.81069	-76.89782	160024	22.7	19.6	0.5	0.4971	0.8374	2.6571	7.7763	6.7341	0.696
371190041	FRM	North Carolina	Mecklenburg	35.2401	-80.785683	132013	28.9	24.2	0.5	0.9735	1.0191	3.0721	9.4767	8.6635	0.3042
371190042	FRM	North Carolina	Mecklenburg	35.151283	-80.866983	132013	27.2	23.1	0.5	0.9341	1.0438	3.0598	8.492	8.5561	0.316
371190043	FRM	North Carolina	Mecklenburg	35.3041	-80.88865	131014	28.5	24.2	0.5	0.6133	1.2013	3.54	8.3174	8.3841	1.5158
371210001	FRM	North Carolina	Mitchell	35.915278	-82.073333	122018	27.3	22.2	0.5	0.58	1.1117	2.4408	11.0683	6.3075	0.3867
371230001	FRM	North Carolina	Montgomery	35.26	-79.84	139015	25.6	20.7	0.5	0.4782	0.6845	3.0533	8.0535	9.3738	0.0624
371290002	FRM	North Carolina	New Hanover	34.364167	-77.838611	156010	30.9	26.4	0.5	0.7444	1.0084	3.6456	10.9577	9.9711	0.4658
371470005	FRM	North Carolina	Pitt	35.594167	-77.386111	157022	24.2	21.1	0.5	0.4047	0.7579	2.2816	10.9831	6.0419	0.2904

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Year															
_id	_type	_state_name	_county_name	monitor_lat	monitor_long	monitor_gridcell	b_pm25_d_DV	f_pm25_d_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
371550005	FRM	North Carolina	Robeson	34.6425	-78.990278	147011	26.7	22.5	0.5	0.2804	0.6884	3.433	8.4388	9.522	0.2676
371590021	FRM	North Carolina	Rowan	35.551868	-80.395039	135017	27.9	23.6	0.5	0.4658	0.3288	2.3564	14.659	7.0692	0
371730002	FRM	North Carolina	Swain	35.435509	-83.443697	112012	26.6	21.4	0.5	0.5758	0.8292	2.0039	12.1616	4.9982	0.691
371830014	FRM	North Carolina	Wake	35.856111	-78.574167	147022	29.6	25	0.5	0.6092	1.1836	2.8783	12.1965	7.4343	0.4
371890003	FRM	North Carolina	Watauga	36.221944	-81.663056	124021	24.7	19.9	0.5	0.5133	0.7411	2.9378	7.9243	8.6877	0.2018
371910005	FRM	North Carolina	Wayne	35.369214	-77.993893	153019	28.5	23.9	0.5	0.4841	0.6418	2.99	12.3099	8.4508	0.0165
380171004	FRM	North Dakota	Cass	46.933754	-96.85535	11111	19.1	17.3	0.5	1.6706	0.4849	1.5161	9.2037	4.2052	0
390090003	FRM	Ohio	Athens	39.4425	-81.908611	117050	31.5	24	0.5	0.9693	0.7925	4.1677	6.3219	15.1079	0
390170003	FRM	Ohio	Butler	39.493611	-84.353889	100048	31.3	27.7	0.5	0.8272	0.9524	4.9198	4.2754	12.8112	2.3048
390170016	FRM	Ohio	Butler	39.338333	-84.566389	99046	33.7	30.4	0.5	0.8648	1.3806	4.0058	10.8966	10.6992	1.333
390230005	FRM	Ohio	Clark	39.928889	-83.809722	103053	32.2	26.8	0.5	0.5976	0.7052	4.5365	7.9139	11.7151	1.708
390250022	FRM	Ohio	Clermont	39.082319	-84.144193	102045	29.5	25.8	0.5	0.6846	1.2005	4.2492	5.2716	12.4833	0.7945
390350027	FRM	Ohio	Cuyahoga	41.4775	-81.703056	116069	36	33.8	0.5	2.3236	1.5532	4.8946	8.521	9.1139	5.2404
390350034	FRM	Ohio	Cuyahoga	41.555	-81.575	116070	32.4	27.1	0.5	1.7751	1.3816	4.9731	4.9911	11.8609	2.3663
390350038	FRM	Ohio	Cuyahoga	41.476944	-81.681944	116069	38.4	35.1	0.5	1.9303	1.5134	4.9806	10.863	9.6693	4.8922
390350045	FRM	Ohio	Cuyahoga	41.471667	-81.657222	116069	33.3	29.6	0.5	1.9411	1.7472	4.5726	5.914	7.4595	6.1635
390350060	FRM	Ohio	Cuyahoga	41.493955	-81.678542	116069	35.9	33.1	0.5	1.979	1.814	4.651	9.2861	7.6692	6.1462
390350065	FRM	Ohio	Cuyahoga	41.446389	-81.661944	116069	33	28.4	0.5	1.81	1.6514	4.2334	6.6251	6.9713	5.6187
390351002	FRM	Ohio	Cuyahoga	41.395556	-81.818056	115068	31	26.5	0.5	1.6541	1.0922	4.4453	5.7043	10.8078	2.3063
390490024	FRM	Ohio	Franklin	39.998333	-82.993056	109054	32	28.6	0.5	0.9275	1.1114	3.2605	13.0045	6.0979	3.6765
390490025	FRM	Ohio	Franklin	39.928056	-82.981111	109053	32.2	27.3	0.5	0.8266	0.9222	3.0401	12.2469	5.4754	3.8098
390570005	FRM	Ohio	Greene	39.808056	-83.886944	103051	28.6	23.9	0.5	0.6697	0.7005	3.2136	9.512	6.5777	3.2725
390610006	FRM	Ohio	Hamilton	39.278499	-84.365974	100046	31.6	28	0.5	0.506	0.8986	4.1129	8.4137	11.0604	1.7578
390610014	FRM	Ohio	Hamilton	39.194167	-84.478889	100045	34.9	29.6	0.5	0.5844	1.0069	3.9323	12.1111	9.1284	2.2929
390610040	FRM	Ohio	Hamilton	39.128611	-84.504167	100045	31	26.4	0.5	0.4526	0.9274	4.4546	6.426	11.6044	1.6347
390610042	FRM	Ohio	Hamilton	39.105	-84.551111	99044	32.6	28.7	0.5	0.4983	0.9239	3.9865	9.7828	6.7415	5.3504
390610043	FRM	Ohio	Hamilton	39.290278	-84.414444	100046	32.3	28.6	0.5	0.5514	0.8957	4.4326	8.0031	11.4878	1.8287
390617001	FRM	Ohio	Hamilton	39.16	-84.457778	100045	32.6	27.8	0.5	0.5147	1.0937	4.632	6.6907	14.1533	0
390618001	FRM	Ohio	Hamilton	39.180278	-84.491944	100045	34.1	29.4	0.5	0.5394	1.1516	3.5629	12.6269	9.3857	1.0847
390810017	FRM	Ohio	Jefferson	40.366104	-80.615002	125060	36.9	32.6	0.5	2.0282	1.9158	4.3025	10.4449	11.0975	1.535
390811001	FRM	Ohio	Jefferson	40.321944	-80.606389	125060	34.4	28.2	0.5	0.6108	0.8144	3.7666	12.725	11.9106	0
390853002	FRM	Ohio	Lake	41.7225	-81.241944	118072	31.7	27.1	0.5	1.7272	1.1502	4.2597	5.9063	8.9339	3.5775
390933002	FRM	Ohio	Lorain	41.463056	-82.114444	113068	31.1	26.4	0.5	1.6866	0.6075	2.9859	12.2095	8.5688	0.4563
390950024	FRM	Ohio	Lucas	41.644167	-83.546667	103069	30.1	27.2	0.5	0.6285	1.026	4.1463	7.8113	5.4869	7.3838
390950026	FRM	Ohio	Lucas	41.620556	-83.641389	102068	30.6	27.4	0.5	1.0898	0.8541	4.7842	4.9661	8.8076	5.5284
390990005	FRM	Ohio	Mahoning	41.111111	-80.645278	123067	31.4	24.4	0.5	1.6263	1.4728	4.0991	6.0324	11.5329	0.8181
390990014	FRM	Ohio	Mahoning	41.095868	-80.658426	123067	31.8	28.7	0.5	1.4735	1.5527	3.7319	10.032	8.4369	2.8746
391030003	FRM	Ohio	Medina	41.102778	-81.911667	115065	29.1	24.5	0.5	1.123	0.9053	3.6832	6.1005	6.0565	5.3633
391130032	FRM	Ohio	Montgomery	39.760278	-84.187778	101051	32.4	29.5	0.5	0.3916	0.6285	3.1379	15.2948	4.9629	4.3883
391330002	FRM	Ohio	Portage	41.164167	-81.235	119067	30.3	25.4	0.5	1.1353	1.1813	4.3078	4.4998	9.7548	4.0633
391351001	FRM	Ohio	Preble	39.835556	-84.720833	97051	29.1	25.6	0.5	0.959	1.047	4.0667	7.0387	9.394	2.6785
391450013	FRM	Ohio	Scioto	38.754167	-82.9175	111043	30.8	27.3	0.5	1.1	1.6286	3.6355	9.2835	10.3564	1.1462
391530017	FRM	Ohio	Summit	41.063333	-81.468611	118066	34.1	27.1	0.5	0.8351	0.9567	4.9635	5.5186	12.8373	1.8943
391530023	FRM	Ohio	Summit	41.088056	-81.541667	117066	30.3	25.3	0.5	0.7443	0.847	4.3633	4.3377	7.007	6.0317
391550007	FRM	Ohio	Trumbull	41.214167	-80.7875	122068	31.3	28.3	0.5	1.6281	1.5454	4.0677	7.6345	8.5347	4.2432
400159008	FRM	Oklahoma	Caddo	35.111944	-98.252778	1001	26.2	26.1	0.5	1.3345	0.6447	2.4905	11.0229	7.495	0.0163
400970186	FRM	Oklahoma	Mayes	36.304624	-95.310616	23013	25	23.9	0.5	1.2243	0.7655	2.3396	11.3413	4.0538	2.9642
401010169	FRM	Oklahoma	Muskogee	35.755273	-95.377669	23007	26.3	24.9	0.5	0.8882	0.7558	2.6391	11.4658	4.3228	3.6956
401091037	FRM	Oklahoma	Oklahoma	35.614131	-97.475083	7006	23.7	20.9	0.5	0.6968	0.5422	2.839	7.3925	5.6174	3.234
401159004	FRM	Oklahoma	Ottawa	36.922222	-94.838889	26018	24	21.1	0.5	0.8055	0.6131	2.2133	9.8439	3.7941	2.8741
401359015	FRM	Oklahoma	Sequoyah	35.581174	-94.830059	27006	26.2	24.8	0.5	1.0299	0.6855	2.1705	13.6321	5.2551	1.0512
401431127	FRM	Oklahoma	Tulsa	36.204902	-95.976537	18012	26.3	23.9	0.5	0.9348	0.7364	2.5176	11.6127	6.1251	1.4389
420010001	FRM	Pennsylvania	Adams	39.92002	-77.30968	149061	31.6	28.4	0.5	0.5393	0.6694	4.217	9.1776	8.2292	4.437
420030008	FRM	Pennsylvania	Allegheny	40.465556	-79.961111	129062	35.9	30.9	0.5	2.0831	1.8242	3.2299	13.486	9.8887	1.5323
420030064	FRM	Pennsylvania	Allegheny	40.323611	-79.868333	130061	53.4	51.2	0.5	1.12	1.7584	2.9472	35.5072	5.8376	2.9152
420030067	FRM	Pennsylvania	Allegheny	40.381944	-80.185556	128061	32.1	25.5	0.5	1.6361	1.39	4.0017	6.3292	13.709	0.2607
420031008	FRM	Pennsylvania	Allegheny	40.618611	-79.727222	131064	36.6	31	0.5	1.6797	1.6769	3.885	12.0512	12.0989	1.5656

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420031301	FRM	Pennsylvania	Allegheny	40.4025	-79.860278	130062	39.3	35	0.5	2.2328	2.3011	3.8742	14.5063	10.2002	2.263
420033007	FRM	Pennsylvania	Allegheny	40.294444	-79.886667	130061	35.1	28.9	0.5	1.4892	1.1083	3.2902	13.7148	12.1563	0
420070014	FRM	Pennsylvania	Beaver	40.747796	-80.316442	126064	35.9	33.5	0.5	1.2499	1.6408	3.1178	15.9262	6.5189	2.9095
420110011	FRM	Pennsylvania	Berks	40.38335	-75.9686	157067	33.8	33.6	0.5	0.8333	1.5	5	7.6	6.7667	8.4667
420170012	FRM	Pennsylvania	Bucks	40.107222	-74.882222	165066	33.3	29.9	0.5	0.9496	1.7293	3.6154	12.4043	6.1392	4.5214
420270100	FRM	Pennsylvania	Centre	40.811389	-77.877028	143068	31.5	27.7	0.5	0.4028	0.8436	3.3317	12.5368	6.7571	2.9244
420290100	FRM	Pennsylvania	Chester	39.834461	-75.768242	159062	36.1	32.1	0.5	0.6562	1.0739	4.0932	13.8974	7.3385	4.6942
420410101	FRM	Pennsylvania	Cumberland	40.246528	-77.18675	149064	34.1	33.2	0.5	0.4815	1.1313	3.354	16.4801	4.7296	5.6573
420430401	FRM	Pennsylvania	Dauphin	40.245	-76.844722	151064	35.6	33.6	0.5	0.7259	1.8718	4.3972	11.0481	5.0762	8.5691
420450002	FRM	Pennsylvania	Delaware	39.835556	-75.3725	162063	33.1	30.2	0.5	0.9566	1.1351	3.7951	12.1715	9.0306	2.5375
420490003	FRM	Pennsylvania	Erie	42.14175	-80.038611	126077	31.3	28	0.5	0.8344	1.0843	3.697	9.75	6.8264	4.1314
420692006	FRM	Pennsylvania	Lackawanna	41.442778	-75.623056	157077	29.4	25.1	0.5	0.7248	1.4784	2.6556	12.2113	5.2675	2.3528
420710007	FRM	Pennsylvania	Lancaster	40.046667	-76.283333	155064	36.5	35.2	0.5	0.6618	0.9057	4.5632	11.4602	5.7823	8.2207
420910013	FRM	Pennsylvania	Montgomery	40.112222	-75.309167	162066	30	26.4	0.5	0.9727	1.3576	4.2561	6.664	9.5994	3.2261
420950025	FRM	Pennsylvania	Northampton	40.628056	-75.341111	161070	36.4	33.6	0.5	0.9759	2.1698	3.7869	14.4628	5.9247	5.4109
421010004	FRM	Pennsylvania	Philadelphia	40.008889	-75.097778	164065	36.1	33.9	0.5	1.31	1.9533	3.999	14.2887	6.935	4.8203
421010047	FRM	Pennsylvania	Philadelphia	39.944722	-75.166111	163064	35.5	31.6	0.5	0.9829	1.5172	4.3074	12.3558	9.1035	3.155
421250005	FRM	Pennsylvania	Washington	40.146667	-79.902222	130059	33.2	27.3	0.5	1.3129	1.5403	3.4528	10.7519	9.9124	1.412
421255001	FRM	Pennsylvania	Washington	40.445278	-80.420833	126061	35.6	29.6	0.5	0.712	0.9954	4.2497	9.3035	14.4279	0.8583
421290008	FRM	Pennsylvania	Westmoreland	40.304694	-79.505667	133061	33.6	28	0.5	0.7702	1.7209	3.513	10.9976	6.3725	3.8712
421330008	FRM	Pennsylvania	York	39.965278	-76.699444	153062	34.8	31.9	0.5	0.759	1.188	5.775	4.488	8.844	8.514
440030002	FRM	Rhode Island	Kent	41.6156	-71.7199	183085	22.3	19.1	0.5	0.6768	0.8444	2.5886	7.071	7.3066	0.5456
440070022	FRM	Rhode Island	Providence	41.807949	-71.415	184088	27.2	25	0.5	0.5568	1.4089	2.9397	10.0274	6.2805	2.6339
440070026	FRM	Rhode Island	Providence	41.874655	-71.379944	184088	28.6	25.5	0.5	0.6001	1.159	3.0961	10.2	8.4495	1.6987
440070028	FRM	Rhode Island	Providence	41.80933	-71.40743	184088	25.6	23	0.5	0.6033	1.0349	2.8537	8.8956	8.2278	1.1051
440071010	FRM	Rhode Island	Providence	41.84092	-71.36094	184088	26.3	24.5	0.5	0.6003	1.3343	2.7969	10.3025	6.3074	2.0927
450250001	FRM	South Carolina	Chesterfield	34.615367	-80.198787	138009	25.1	21.8	0.5	0.5046	0.5686	2.6278	9.7987	8.0311	0.637
450410002	FRM	South Carolina	Florence	34.167636	-79.850404	141005	24.6	21.5	0.5	0.672	0.7034	2.5417	9.486	7.4297	0.3726
450450008	FRM	South Carolina	Greenville	34.838814	-82.402918	121008	29	26.4	0.5	0.278	0.7506	2.0294	17.5418	4.587	1.0842
450450009	FRM	South Carolina	Greenville	34.899141	-82.31307	121008	27.6	25.3	0.5	0.3346	0.8592	2.2966	15.0747	5.4098	0.9528
450630008	FRM	South Carolina	Lexington	34.051017	-81.15495	131002	27.9	26.5	0.5	0.5925	0.8349	1.8584	16.6179	5.0096	0.1885
450730001	FRM	South Carolina	Oconee	34.805261	-83.2377	115006	25.2	20.8	0.5	0.6789	0.7581	2.7267	9.3899	8.2495	0.5126
450790007	FRM	South Carolina	Richland	34.093959	-80.962304	133003	26.5	23.4	0.5	0.8775	1.2495	2.2329	11.639	6.0521	0.1608
450790019	FRM	South Carolina	Richland	33.991509	-81.024141	132002	27.9	26	0.5	0.7504	1.0452	2.278	13.9896	6.2712	0.1608
450830010	FRM	South Carolina	Spartanburg	34.926839	-82.005211	124009	28.5	23.2	0.5	0.4347	0.818	2.6505	11.8534	7.697	0.5282
460110002	FRM	South Dakota	Brookings	44.310283	-96.80071	12086	20.5	18.6	0.5	1.1772	0.5978	2.0275	8.7703	3.9795	1.958
460130003	FRM	South Dakota	Brown	45.4625	-98.486111	1097	16.3	16.3	0.5	0.7391	0.3473	1.8219	6.036	3.2319	2.3525
460290002	FRM	South Dakota	Codington	44.89965	-97.128802	10092	24.2	22.3	0.5	0.6391	0.4241	3.1831	7.6629	3.7079	6.326
460990006	FRM	South Dakota	Minnehaha	43.544289	-96.726435	12079	25.5	23.5	0.5	0.6986	0.5228	4.0864	4.503	3.7684	9.36
470090011	FRM	Tennessee	Blount	35.768431	-83.942123	108015	31.4	26.3	0.5	1.0344	0.9666	3.1704	10.926	11.7221	0.1933
470370023	FRM	Tennessee	Davidson	36.176326	-86.738902	87016	29.4	25.2	0.5	1.0228	1.4493	2.6584	11.5195	7.0612	1.3216
470370036	FRM	Tennessee	Davidson	36.118251	-86.873547	86015	29.1	24.3	0.5	0.803	1.0064	3.157	8.7386	8.1172	1.8802
470450004	FRM	Tennessee	Dyer	36.052871	-89.38227	67012	29.2	24.7	0.5	1.1407	0.9151	3.4197	8.221	9.5605	1.1572
470650031	FRM	Tennessee	Hamilton	34.994555	-85.242872	99006	28.6	25.6	0.5	0.6868	1.5198	1.7085	17.2755	4.391	0.3474
470651011	FRM	Tennessee	Hamilton	35.233527	-85.181806	99008	27.4	22.4	0.5	0.8164	1.4493	2.8079	9.6374	7.8425	0.7024
470654002	FRM	Tennessee	Hamilton	35.050928	-85.292975	99007	31.5	26.4	0.5	0.852	2.0164	2.0448	16.1596	4.4872	1.3348
470931020	FRM	Tennessee	Knox	36.019186	-83.87381	108017	31.6	27.9	0.5	1.3581	1.9152	2.5143	14.5346	7.157	1.457
470990002	FRM	Tennessee	Lawrence	35.116223	-87.47001	82005	29.9	23.4	0.5	0.6227	0.4822	3.4752	9.1278	12.4317	0
471050108	FRM	Tennessee	Loudon	35.744799	-84.317313	105014	31	25.2	0.5	0.9245	0.7536	3.0167	12.0641	11.1803	0
471071002	FRM	Tennessee	McMinn	35.451111	-84.599167	103011	31.7	24.2	0.5	0.9468	1.0429	3.2675	10.593	10.6181	0.2678
471130006	FRM	Tennessee	Madison	35.651541	-88.809652	72009	30.3	25	0.5	0.5662	0.5662	2.533	14.8106	8.9698	0
471192007	FRM	Tennessee	Maury	35.65192	-87.0263	85011	28	23	0.5	0.5552	0.7838	3.2386	7.9483	8.6809	1.6007
471251009	FRM	Tennessee	Montgomery	36.514444	-87.327778	82018	32.3	25.8	0.5	1.1248	1.0629	3.6192	9.0324	11.7004	0.5144
471450004	FRM	Tennessee	Roane	35.938695	-84.54372	103015	28.9	22.5	0.5	1.0271	1.0426	2.8382	10.2728	9.7056	0.222
471570014	FRM	Tennessee	Shelby	35.085833	-89.949444	64003	28.5	22.1	0.5	0.9186	1.5689	2.7236	9.4102	7.4721	0.5434
471570047	FRM	Tennessee	Shelby	35.16895	-90.021567	63004	29.3	24.4	0.5	0.8512	1.588	3.5695	7.1303	8.5754	2.2528
471631007	FRM	Tennessee	Sullivan	36.540654	-82.521667	117023	29.9	25.3	0.5	0.7097	0.6552	4.0744	7.2855	12.2397	0

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_id	_type	_state_name	_county_name	monitor_lat	monitor_long	monitor_gridcell	b_pm25_d_DV	f_pm25_d_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
471650007	FRM	Tennessee	Sumner	36.297778	-86.652778	87017	28.5	25.1	0.5	0.7087	0.6534	3.4932	9.3193	8.9947	1.7376
500030004	FRM	Vermont	Bennington	42.88759	-73.24984	169094	23.3	20.8	0.5	0.5609	0.6542	1.9464	10.8429	6.0251	0.2622
500070012	FRM	Vermont	Chittenden	44.480278	-73.214444	166108	26.1	23.6	0.5	0.4945	0.6701	3.2119	9.0755	6.919	2.6781
500210002	FRM	Vermont	Rutland	43.608056	-72.982778	169101	28.2	27.4	0.5	0.3777	0.488	1.4948	19.5561	3.3054	1.3824
510130020	FRM	Virginia	Arlington	38.8575	-77.059167	152052	29.9	25.5	0.5	1.2192	2.2211	3.5065	8.3095	8.1597	2.1964
510360002	FRM	Virginia	Charles	37.343294	-77.260034	154038	28.7	24.3	0.5	0.6632	0.8956	3.6196	8.464	10.069	0.4224
510410003	FRM	Virginia	Chesterfield	37.436111	-77.450833	152038	28.2	22.7	0.5	0.6565	0.6621	3.5379	7.5546	11.4516	0
510590030	FRM	Virginia	Fairfax	38.772778	-77.105556	152051	31.4	25.7	0.5	1.3503	1.9237	3.864	7.4935	10.4457	1.1374
510595001	FRM	Virginia	Fairfax	38.931944	-77.198889	151052	29.6	25.5	0.5	1.0207	1.8823	3.2771	9.4176	7.3429	2.4313
510870014	FRM	Virginia	Henrico	37.558333	-77.400278	153039	29.4	24	0.5	0.7623	0.7341	3.7268	7.8771	11.0675	0
510870015	FRM	Virginia	Henrico	37.670278	-77.5675	151040	27	21.3	0.5	0.6448	0.6422	3.4355	6.8212	11.2356	0
511071005	FRM	Virginia	Loudoun	39.024444	-77.49	149052	29.3	23.2	0.5	0.7596	0.9092	3.4973	7.4756	11.0689	1.5891
511390004	FRM	Virginia	Page	38.663333	-78.504722	143048	27.7	21.9	0.5	0.4993	0.3648	3.635	8.8227	9.6838	0
515200006	FRM	Virginia	Bristol City	36.607778	-82.164444	120024	28.2	22.8	0.5	0.519	1.1986	3.2746	9.3224	8.5321	0.7695
516500004	FRM	Virginia	Hampton City	37.003333	-76.399167	161036	29.2	24.4	0.5	0.7629	0.9466	3.5449	8.6622	9.8119	0.4372
516800015	FRM	Virginia	Lynchburg City	37.3605	-79.1883	140035	27.9	21.6	0.5	0.4932	0.7398	3.2332	8.6858	11.1518	0
517100024	FRM	Virginia	Norfolk City	36.857778	-76.301667	162035	34.3	31.3	0.5	0.67	1.4466	3.8188	13.4032	8.7003	2.0376
517700014	FRM	Virginia	Roanoke City	37.256111	-79.985	135033	29.7	25.7	0.5	0.5196	1.1188	2.5638	13.5876	7.1416	1.1612
518100008	FRM	Virginia	Virginia Beach City	36.841111	-76.181389	163035	33.1	28.5	0.5	0.7469	1.1374	3.8692	11.1169	9.7215	1.317
540030003	FRM	West Virginia	Berkeley	39.448006	-77.964125	145056	31.2	28.2	0.5	0.4385	0.7893	3.5957	11.5179	6.1975	4.6189
540090005	FRM	West Virginia	Brooke	40.341023	-80.596635	125060	37	31.5	0.5	1.548	1.7239	4.1781	10.3775	10.2748	2.4073
540090011	FRM	West Virginia	Brooke	40.394583	-80.612017	125060	40.5	38	0.5	2.3911	2.5454	4.8594	10.7601	10.0273	4.4352
540110006	FRM	West Virginia	Cabell	38.424133	-82.4259	115040	32.3	27.7	0.5	1.0177	1.6777	3.2318	11.8849	10.045	0.2557
540291004	FRM	West Virginia	Hancock	40.421539	-80.580717	125061	38.1	31.3	0.5	1.4399	1.3627	4.7759	8.8379	13.7339	1.1856
540330003	FRM	West Virginia	Harrison	39.278117	-80.34225	129051	31.2	24.4	0.5	0.7715	0.856	4.0185	6.9959	12.71	0.7268
540390010	FRM	West Virginia	Kanawha	38.3456	-81.628317	121041	34.2	27.1	0.5	0.673	1.1724	4.0228	9.8399	14.349	0
540391005	FRM	West Virginia	Kanawha	38.366183	-81.693717	121041	35.8	29.1	0.5	1.2266	1.4858	3.6243	12.1049	11.9426	0
540490006	FRM	West Virginia	Marion	39.481483	-80.134667	130053	31.7	24.3	0.5	0.9081	0.8682	3.7694	7.7427	11.8516	0.7128
540511002	FRM	West Virginia	Marshall	39.915961	-80.733858	125056	33.9	28.6	0.5	0.6423	1.2011	3.4424	11.1423	9.7421	1.2138
540610003	FRM	West Virginia	Monongalia	39.649367	-79.920867	131055	33.7	23.8	0.5	0.9804	0.9669	4.0376	7.6886	13.0612	0.7037
540690010	FRM	West Virginia	Ohio	40.114876	-80.700972	125058	30.6	26.6	0.5	1.0925	1.3513	3.9384	6.4767	10.6964	1.6564
540810002	FRM	West Virginia	Raleigh	37.807767	-81.197433	125036	27.6	21.4	0.5	0.5367	0.8494	3.3811	7.0026	12.36	0
541071002	FRM	West Virginia	Wood	39.323533	-81.552367	120050	34	26.8	0.5	1.0047	0.9015	4.1528	8.3553	14.0164	0.9216
550030010	FRM	Wisconsin	Ashland	46.61455	-90.69868	51109	19	17.6	0.5	0.542	0.4323	3.0975	3.0342	4.6718	4.8058
550090005	FRM	Wisconsin	Brown	44.516667	-87.993889	70091	34.7	33.1	0.5	0.2297	0.4416	3.5178	16.9754	4.0374	7.2163
550250047	FRM	Wisconsin	Dane	43.073333	-89.435833	61077	33.9	31.4	0.5	0.9768	0.8043	4.2398	11.1235	4.8599	8.7584
550270007	FRM	Wisconsin	Dodge	43.435	-88.527778	67081	27	25.4	0.5	0.2989	0.4493	4.2956	5.4805	4.4089	9.3809
550410007	FRM	Wisconsin	Forest	45.56498	-88.80859	64100	20.5	19.3	0.5	0.4285	0.403	2.678	6.7135	3.962	4.2952
550430009	FRM	Wisconsin	Grant	42.69215	-90.68637	53073	33.8	31.7	0.5	0.6202	0.6894	4.5869	10.395	4.6064	10.0141
550590019	FRM	Wisconsin	Kenosha	42.504722	-87.8093	73073	30.5	28.3	0.5	0.3335	0.6291	4.8152	6.0513	5.7039	9.4393
550630012	FRM	Wisconsin	La Crosse	43.778	-91.225	49083	31.5	29.5	0.5	0.3915	0.5157	3.2216	14.9326	2.8084	7.5276
550710007	FRM	Wisconsin	Manitowoc	44.138611	-87.616111	73088	27.7	26.4	0.5	0.4996	0.3473	2.6341	13.9399	3.4554	4.8907
550790010	FRM	Wisconsin	Milwaukee	43.016667	-87.933333	72077	36.2	34.8	0.5	0.706	0.7413	5.7539	7.3071	6.3893	11.649
550790026	FRM	Wisconsin	Milwaukee	43.061111	-87.9125	72078	36.6	34.6	0.5	0.7286	0.9191	5.3582	9.6621	5.8041	11.0073
550790043	FRM	Wisconsin	Milwaukee	43.02641	-87.91111	72077	36.4	34.5	0.5	0.7158	0.8765	5.2888	9.6378	5.7582	10.8222
550790059	FRM	Wisconsin	Milwaukee	42.955	-87.934167	72077	32.2	29.8	0.5	1.0557	0.9744	4.6587	7.8826	7.7204	6.4014
550790099	FRM	Wisconsin	Milwaukee	43.039722	-87.920556	72078	36	33.9	0.5	0.69	0.7245	5.6925	6.831	6.3135	11.523
550870009	FRM	Wisconsin	Outagamie	44.306944	-88.395556	67089	32.4	31.2	0.5	0.2233	0.319	3.3495	15.2801	3.3814	7.5603
550890009	FRM	Wisconsin	Ozaukee	43.498056	-87.81	72082	30.3	27.8	0.5	0.9548	0.9462	4.7882	5.3904	5.5081	9.7443
551091002	FRM	Wisconsin	St. Croix	45.124444	-92.6625	39094	24.6	22.5	0.5	0.391	0.5881	3.661	5.326	3.7521	7.8789
551110007	FRM	Wisconsin	Sauk	43.435556	-89.680278	60080	26.2	25	0.5	0.8077	0.6542	3.8851	6.0002	5.6608	6.3145
551198001	FRM	Wisconsin	Taylor	45.203889	-90.6	52096	28.7	26.8	0.5	1.0118	0.5751	3.0228	12.193	7.6591	1.2231
551250001	FRM	Wisconsin	Vilas	46.048056	-89.653611	58104	29.2	27.4	0.5	0.8728	0.642	4.0088	8.6738	6.7529	5.2762
551330027	FRM	Wisconsin	Waukesha	43.020278	-88.215	70077	30.6	28.5	0.5	1.9417	0.9873	3.6795	9.2881	4.7339	7.0996

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_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
10331002	2.7184	0.0101	0.5	0.7333	0.6577	2.3958	9.4816	6.8786	0.6866	2.1389	0.0101	1.0526	0.8702	0.7821	0.9908	0.763	0.8648	0.7868	1
10890014	3.3963	0.0177	0.5	0.8624	0.5517	2.5581	8.6996	6.795	0.6399	2.4047	0.0177	1.0576	0.8537	0.7268	0.9875	0.7139	0.879	0.708	1
11030011	3.0245	0	0.5	0.5136	0.6277	3.6219	7.0763	13.6675	0	3.038	0	1	1	0.9995	1	1	1	1.0044	1
50350005	3.9697	0.0112	0.5	0.8582	1.2144	2.4483	9.0786	7.354	0	2.6564	0.0112	1.0707	0.825	0.6708	0.9872	0.6686	1	0.6692	1
50450002	1.838	0.057	0.5	2.4481	0.97	1.6353	11.1166	4.6161	0.095	1.5514	0.057	1.0292	0.8503	0.849	0.9909	0.8338	0.8481	0.8441	1
50670001	2.4615	0.0423	0.5	1.1245	0.984	2.4206	9.8588	6.0321	1.066	2.01	0.0423	1.0755	0.8524	0.828	0.9933	0.8159	0.8614	0.8166	1
51150003	1.4901	0.024	0.5	1.1568	0.7308	1.6212	13.8165	3.9669	0.5293	1.3805	0.024	1.0241	0.8688	0.9241	0.9929	0.9273	0.847	0.9265	1
51190007	2.1613	0	0.5	2.0062	0.9185	2.0696	13.0168	6.1604	0.0251	2.1593	0	1	1	0.9958	1	1	1	0.9991	1
51310008	1.8015	0	0.5	0.9067	0.5826	2.0923	11.2662	4.8003	1.3089	1.6323	0	1.0407	0.8581	0.9025	0.9931	0.9058	0.8868	0.9061	1
51450001	2.2286	0.0303	0.5	0.7702	0.5004	1.6686	13.3056	4.8325	0	1.745	0.0303	1.0463	0.8615	0.7781	0.9905	0.7776	1	0.783	1
90010010	2.4757	0.0973	0.5	0.9518	1.6758	2.845	13.9702	6.2474	1.8967	2.0725	0.0973	1.0655	0.8309	0.8708	0.981	0.8452	1.0064	0.8371	1
90011123	1.6675	0.1086	0.5	0.7616	1.4455	2.6569	14.3037	4.7667	3.1249	1.5075	0.1086	1.0503	0.8571	0.9402	0.9786	0.9034	1.026	0.9041	1
90013005	1.9369	0.2487	0.5	0.9271	1.841	3.434	10.0587	5.4237	4.9604	1.7643	0.2487	1.0574	0.8521	0.9398	0.9814	0.8882	1.0211	0.9109	1
90019003	2.0856	0.2448	0.5	0.9636	2.0294	3.7033	7.4513	5.8331	5.3769	1.8978	0.2448	1.0569	0.8527	0.943	0.9814	0.8879	1.0214	0.9099	1
90031003	1.607	0.0353	0.5	0.6273	1.0909	2.0395	14.8638	4.4037	1.525	1.456	0.0353	1.0403	0.8439	0.9301	0.9772	0.9097	1.0141	0.906	1
90050005	4.0448	0	0.5	1.3638	0.7098	2.9472	4.806	8.4933	0	3.1447	0	1.0655	0.9242	0.7779	0.9933	0.7788	1	0.7775	1
90090026	2.6637	0.0878	0.5	0.8745	1.884	3.2164	11.715	6.7283	2.6567	2.2522	0.0878	1.0555	0.857	0.8851	0.9807	0.8488	1.0162	0.8455	1
90090027	1.8779	0.0562	0.5	0.7467	1.9114	3.001	13.9471	5.3337	3.6411	1.6576	0.0562	1.0527	0.8581	0.9277	0.9751	0.8839	1.0143	0.8827	1
90091123	2.5558	0.1087	0.5	0.8718	1.8297	3.1429	13.2321	6.2926	2.8982	2.1609	0.1087	1.0568	0.8498	0.8841	0.977	0.845	1.0078	0.8455	1
90092008	1.7977	0.114	0.5	0.8635	2.0919	3.2005	9.5775	5.1661	4.4127	1.6612	0.114	1.0482	0.8558	0.9468	0.9723	0.9067	1.0088	0.9241	1
90092123	2.3665	0.0754	0.5	0.7837	1.3076	2.8859	13.4102	5.7553	2.8164	1.9697	0.0754	1.0436	0.8649	0.8883	0.9719	0.8306	1.0564	0.8323	1
90113002	1.8616	0.1845	0.5	0.666	1.4031	2.6467	10.4182	5.1655	2.7641	1.6517	0.1845	1.0384	0.8833	0.9286	0.9764	0.893	1.0197	0.8873	1
100010002	2.7459	0.0889	0.5	0.4974	0.6034	3.0964	7.7225	6.8989	2.6062	2.1893	0.0889	1.0949	0.8473	0.8416	0.9897	0.7986	0.9787	0.7973	1
100010003	2.96	0.0981	0.5	0.4783	0.5595	3.2967	7.3296	7.4032	2.7216	2.3767	0.0981	1.0861	0.8444	0.8413	0.9884	0.8019	0.9766	0.8029	1
100031007	3.0184	0.3217	0.5	1.1922	1.071	3.6808	4.984	6.8325	4.2894	2.3997	0.3217	1.0842	0.8474	0.8577	0.9884	0.7664	1.1121	0.795	1
100031012	1.8815	0.4267	0.5	1.3966	1.2285	3.61	6.8984	4.8542	6.188	1.6888	0.4267	1.0769	0.8338	0.923	0.9825	0.8274	1.0449	0.8976	1
100032004	3.0599	0.432	0.5	2.0274	1.5544	4.1684	9.264	7.7771	4.317	2.5964	0.432	1.0721	0.8324	0.8868	0.983	0.8362	1.0466	0.8485	1
100051002	2.7069	0.086	0.5	0.6444	0.7899	3.0808	10.1105	7.5162	2.1708	2.2434	0.086	1.086	0.8266	0.8478	0.9877	0.8201	0.9194	0.8288	1
110010041	2.1514	0.2027	0.5	1.049	1.6861	3.3857	9.0468	5.5967	4.5926	1.7522	0.2027	1.0735	0.8164	0.8835	0.9819	0.8065	1.0453	0.8145	1
110010042	2.8104	0	0.5	1.4009	1.8516	2.7773	9.6042	6.2333	1.9901	2.0767	0	1.0893	0.815	0.7984	0.9853	0.7505	1.0291	0.7389	1
110010043	2.1389	0.3135	0.5	0.9573	1.5486	3.5684	7.2795	5.5732	5.2391	1.7813	0.3135	1.0738	0.8161	0.8902	0.9819	0.8064	1.0444	0.8328	1
131390003	3.1894	0.0287	0.5	0.8333	0.8333	3.7833	5.8616	14.223	0	3.1909	0.0287	1	1	0.9975	1	1	1	1.0005	1
170190004	2.573	0.0277	0.5	0.5824	0.6064	4.9723	1.7998	5.0673	10.7854	2.4395	0.0277	1.1079	0.8118	0.9459	1.0008	0.949	0.9462	0.9481	1
170191001	2.8528	0	0.5	0.9812	0.6449	3.5219	5.8173	6.2199	4.4545	2.3869	0	1.0762	0.8089	0.8718	0.9961	0.8282	0.9455	0.8367	1
170310022	1.9301	0.5881	0.5	0.9595	1.2736	3.9365	9.0787	5.3884	6.6064	1.8653	0.5881	1.0467	0.7908	0.9617	0.999	0.9831	0.9355	0.9664	1
170310050	2.3853	0.3238	0.5	0.8964	0.9121	3.3395	8.4742	5.7284	4.1698	2.1003	0.3238	1.0649	0.7672	0.8999	0.9706	0.8863	0.9291	0.8805	1
170310052	2.4499	0.2313	0.5	0.8417	0.7938	4.1234	9.3594	5.4608	7.1691	2.237	0.2313	1.063	0.7788	0.9351	0.9645	0.9168	0.9498	0.9131	1
170310057	2.4477	0.4323	0.5	0.8233	0.7458	4.1654	6.2475	6.6221	7.0062	2.2326	0.4323	1.0834	0.781	0.9252	0.9753	0.8967	0.9452	0.9121	1
170310076	3.067	0.1416	0.5	0.907	0.9466	3.182	10.8061	7.0748	1.8424	2.4395	0.1416	1.0707	0.7989	0.7962	0.9793	0.7926	0.8189	0.7954	1
170311016	3.0295	0.1761	0.5	0.8767	0.7988	3.0992	14.2464	7.2286	1.7864	2.562	0.1761	1.0843	0.7669	0.8436	0.9767	0.8424	0.8362	0.8457	1
170312001	3.0947	0.0971	0.5	0.844	0.7809	3.3636	10.2212	7.1855	2.4895	2.6345	0.0971	1.0708	0.7688	0.8677	0.9789	0.8522	0.9335	0.8513	1
170313103	3.034	0.2074	0.5	0.8425	0.8374	3.4823	10.7374	7.2841	3.3949	2.5894	0.2074	1.081	0.8614	0.8775	0.9799	0.8471	0.95	0.8535	1
170313301	2.1312	0.1813	0.5	0.7782	0.8352	2.9447	11.7988	4.9346	3.7886	1.764	0.1813	1.0667	0.7958	0.8305	0.9761	0.8107	0.8698	0.8277	1
170314007	3.2991	0.0504	0.5	0.6188	0.8363	3.9948	6.9833	8.591	2.9329	3.1955	0.0504	1.078	0.8012	0.9684	0.9781	0.9722	0.9573	0.9686	1
170314201	3.4786	0.0388	0.5	0.4851	0.8693	4.0887	6.905	9.1169	2.6247	3.3849	0.0388	1.0784	0.8008	0.9691	0.9781	0.9724	0.9628	0.9731	1
170434002	2.8095	0.1544	0.5	0.6048	0.6788	3.5906	10.169	6.3945	4.4226	2.3885	0.1544	1.0811	0.7725	0.8756	0.9807	0.8512	0.9233	0.8502	1
170650002	3.2119	0.0201	0.5	1.2823	0.7255	2.7823	6.0379	7.0104	1.2481	2.4554	0.0201	1.0914	0.8297	0.7887	0.9956	0.769	0.9532	0.7645	1
170831001	2.9077	0.007	0.5	1.1332	0.6002	2.7149	8.7551	6.6665	1.1499	2.3792	0.007	1.0775	0.8127	0.8262	0.9912	0.814	0.9074	0.8182	1
170890003	3.9761	0.1351	0.5	0.903	0.8282	3.6724	8.1827	8.8483	2.0258	3.1843	0.1351	1.0749	0.7745	0.8098	0.9808	0.8003	0.8556	0.8009	1
170890007	1.8723	0.1528	0.5	0.5404	0.6101	3.792	8.314	4.6065	7.1301	1.7661	0.1528	1.0732	0.7866	0.943	0.9812	0.9364	0.9445	0.9433	1
170971007	1.9539	0.0688	0.5	0.3218	0.4655	3.69	6.0902	4.4845	7.065	1.7988	0.0688	1.0714	0.8062	0.917	0.9758	0.8953	0.9347	0.9206	1
170990007	1.7296	0.3008	0.5	0.9533	0.899	3.2803	5.9468	4.4426	5.6126	1.5457	0.3008	1.0564	0.8151	0.8902	0.9885	0.8951	0.885	0.8937	1
171110001	2.7336	0.0728	0.5	0.6035	0.652	4.0043	5.2523	6.7271	5.3975	2.5544	0.0728	1.0708	0.782	0.9286	0.9803	0.92	0.9407	0.9344	1
171132003	2.388	0.0531	0.5	0.4658	0.5352	4.6696	2.5166	5.1695	9.6136	2.262	0.0531	1.0972	0.8069	0.9513	0.9984	0.9645	0.9411	0.9472	1
171150013	3.5247	0.0334	0.5	1.1306	0.5859	3.0994	8.0222	7.486	1.5639	2.7318	0.0334	1.053	0.815	0.7897	0.9995	0.7721	0.9157	0.775	1
171191007	3.6906	0	0.5	1.2586	0.5092	2.9632	15.2847	8.7183	0.1814	3.0767	0	1.0679	0.7853	0.8349	0.984	0.8316	0.771	0.8336	1
171192009	3.2407	0.009	0.5	1.1327	0.6482	2.9585	10.8501	7.7209	1.0842	2.632	0.009	1.0664	0.8113	0.8246	0.9953	0.8118	0.9304	0.8122	1

MATS 2.3.1 - Ouput File - 24-hr PM-2.5
2014 Business As Usual Scenario

Year																			
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
171193007	2.6588	0.0176	0.5	0.8701	0.5966	3.5284	9.1575	6.8409	3.513	2.352	0.0176	1.059	0.8119	0.9022	0.9936	0.8958	0.9184	0.8846	1
171430037	2.1432	0.1142	0.5	0.5177	0.5556	4.1746	5.3668	4.8995	8.1851	1.9969	0.1142	1.0678	0.7995	0.9404	0.9882	0.9659	0.9202	0.9317	1
171570001	1.7544	0.0135	0.5	0.5929	0.5026	3.0511	7.5	4.9757	4.315	1.5915	0.0135	1.0976	0.8404	0.9229	0.9919	0.9124	0.9422	0.9071	1
171613002	2.5405	0.4481	0.5	0.5813	0.4852	3.2104	5.1472	5.1157	4.6251	2.0329	0.4481	1.0644	0.7972	0.8397	0.9851	0.8013	0.8926	0.8002	1
171630010	2.1711	0.0277	0.5	0.7338	0.4526	3.18	10.1821	5.9867	3.6735	2.0079	0.0277	1.0641	0.7937	0.9321	0.9791	0.9393	0.9093	0.9248	1
171634001	2.5872	0.0282	0.5	1.0392	0.4615	2.8664	10.6844	6.5279	2.2001	2.2428	0.0282	1.088	0.7935	0.8749	0.9886	0.8666	0.8893	0.8669	1
171670012	3.0993	0.0172	0.5	0.8372	0.5313	4.1916	4.69	6.8856	5.9512	2.6561	0.0172	1.1123	0.8198	0.8851	1.0048	0.8614	0.9144	0.857	1
171971002	2.7215	0.185	0.5	0.8648	0.8646	4.0671	8.5562	6.6774	5.5233	2.4175	0.185	1.0678	0.7849	0.9043	0.9799	0.8889	0.9281	0.8883	1
171971011	1.779	0.468	0.5	0.8124	1.092	3.5306	4.932	4.7368	6.0657	1.6683	0.468	1.0675	0.8123	0.9399	0.9854	0.9386	0.9407	0.9377	1
172010013	2.6421	0.0831	0.5	0.6127	0.5069	3.656	7.3596	5.6192	5.7762	2.2957	0.0831	1.0634	0.8031	0.913	0.9841	0.8535	0.9885	0.8689	1
180030004	2.079	0.0891	0.5	0.381	0.5033	4.2437	8.5734	6.0257	6.8417	1.998	0.0891	1.069	0.8069	0.9526	0.9954	0.957	0.9519	0.961	1
180190006	2.3248	0.0217	0.5	0.7194	0.8477	4.2117	9.7767	6.6345	6.0495	2.1172	0.0217	1.0759	0.8189	0.9206	0.9837	0.9041	0.9439	0.9107	1
180350006	3.4236	0.0368	0.5	0.7753	0.4228	3.2337	6.4913	7.7475	2.0473	2.7886	0.0368	1.0663	0.8072	0.8386	0.9942	0.8174	0.9377	0.8145	1
180370005	3.4515	0.1075	0.5	0.4023	0.6219	4.0916	5.8585	8.1737	3.8102	2.8393	0.1075	1.1284	0.8522	0.8564	1.0083	0.8318	0.9183	0.8226	1
180431004	2.8694	0.0291	0.5	1.1009	0.8855	3.1926	8.4845	7.0006	2.53	2.3406	0.0291	1.0815	0.8198	0.8509	0.9923	0.8189	0.971	0.8157	1
180670003	3.018	0.175	0.5	0.9913	0.7536	3.9905	4.8027	6.9937	5.0271	2.5591	0.175	1.0602	0.8051	0.8805	0.9952	0.8523	0.9358	0.8479	1
180830004	3.6797	0.0139	0.5	0.5781	0.5149	2.945	9.3481	7.7371	0.7695	2.7752	0.0139	1.1418	0.8342	0.7691	1.0054	0.7588	0.9327	0.7542	1
180890006	2.5091	0.5899	0.5	1.2396	1.7168	3.6377	8.2696	7.3115	3.6885	2.3242	0.5899	1.0395	0.7876	0.9244	0.9996	0.9334	0.9069	0.9263	1
180890022	1.5487	2.4293	0.5	1.7526	2.6503	3.0071	9.1011	5.1006	3.7737	1.5517	2.4293	1.0688	0.8007	0.9708	0.9957	0.9998	0.9274	1.0019	1
180890026	2.8942	0.4408	0.5	1.1008	1.6116	3.0421	11.4628	7.7128	1.6914	2.5334	0.4408	1.0832	0.7975	0.8762	0.9929	0.8728	0.9023	0.8753	1
180890027	2.8761	0.4457	0.5	1.0729	1.435	3.1175	7.4721	7.7042	1.969	2.4978	0.4457	1.0667	0.7988	0.8736	0.9916	0.8674	0.9062	0.8685	1
180890031	4.225	0.3404	0.5	1.2103	1.908	3.9147	6.4966	10.9636	0	4.0061	0.3404	1.0363	0.798	0.9482	0.9905	0.9453	1	0.9482	1
180892004	2.9659	0.3928	0.5	1.0376	1.0388	3.4167	8.2212	8.6506	2.1214	2.7238	0.3928	1.0431	0.7957	0.9185	1.0026	0.9199	0.9069	0.9184	1
180892010	3.7716	0.2694	0.5	0.91	1.2204	3.1897	9.1251	9.9369	0	3.4393	0.2694	1.0483	0.8154	0.9108	1.0061	0.9095	1	0.9119	1
180910011	3.7699	0.1125	0.5	0.9872	1.9166	3.0684	7.1249	9.2422	0	3.3327	0.1125	1.0966	0.8308	0.8867	1.001	0.8831	1	0.884	1
180950009	3.1144	0.0558	0.5	0.8213	0.4921	4.1054	4.7604	7.526	5.0436	2.7319	0.0558	1.0613	0.8018	0.897	0.9927	0.8807	0.9309	0.8772	1
180970043	2.7062	0.0333	0.5	0.6918	0.8771	4.3314	10.0425	7.144	5.986	2.5093	0.0333	1.0585	0.8042	0.9299	1.0024	0.9295	0.9305	0.9272	1
180970066	3.9272	0.0215	0.5	0.7526	0.9465	3.9745	8.802	10.0621	1.8727	3.3023	0.0215	1.0489	0.799	0.8547	0.9973	0.8385	0.9183	0.8409	1
180970078	3.1383	0.0314	0.5	0.7628	0.9432	4.3811	7.4363	8.4093	4.6234	2.8625	0.0314	1.0523	0.8015	0.9224	0.9993	0.9181	0.9269	0.9121	1
180970081	3.4318	0.032	0.5	0.8542	0.8724	3.9671	8.922	8.335	3.3538	2.9718	0.032	1.0476	0.7988	0.8849	0.997	0.8701	0.9291	0.866	1
180970083	3.4952	0.0314	0.5	0.8664	0.875	3.9824	8.1386	8.4475	3.2725	3.0207	0.0314	1.0472	0.7986	0.8816	0.9973	0.867	0.9293	0.8642	1
181270024	2.4992	1.5163	0.5	1.4483	1.9876	3.3745	7.4718	7.3239	2.3014	2.498	1.5163	1.0637	0.79	0.9771	1.0001	0.9998	0.9105	0.9995	1
181410014	2.7468	0.0454	0.5	0.6217	0.5969	3.3263	9.6332	6.3359	3.6111	2.5042	0.0454	1.0648	0.8202	0.9217	0.9929	0.9163	0.9383	0.9117	1
181470009	3.1389	0.0807	0.5	0.5774	0.5554	4.1655	3.5462	7.8263	4.4509	2.7173	0.0807	1.1364	0.8461	0.8903	1.0069	0.8731	0.9289	0.8657	1
181570008	2.7798	0.3	0.5	0.929	0.9266	3.6748	6.7147	6.418	4.6685	2.3738	0.3	1.0543	0.8334	0.8873	0.9972	0.8689	0.9216	0.8539	1
181630006	2.8304	0.0089	0.5	1.0647	0.5879	2.4566	13.4335	6.2277	1.0523	2.2086	0.0089	1.1103	0.8353	0.8016	1.0061	0.7804	1.0193	0.7803	1
181630016	2.5781	0.0087	0.5	0.9715	0.6052	3.1435	10.1603	6.4689	3.0269	2.2087	0.0087	1.1071	0.8385	0.8824	1.0093	0.8546	0.9471	0.8567	1
181670018	2.7905	0.0173	0.5	0.706	0.5856	3.6983	6.351	6.3064	4.8846	2.354	0.0173	1.0889	0.8413	0.8769	1.0049	0.856	0.9103	0.8436	1
181670023	2.4337	0.0547	0.5	0.5847	0.7314	4.171	5.0256	6.3479	6.3777	2.1956	0.0547	1.0891	0.8412	0.9148	1.0055	0.9167	0.9102	0.9022	1
190130008	2.1408	0.1164	0.5	0.6945	0.5392	3.254	8.605	4.2349	5.833	1.8857	0.1164	1.0427	0.8004	0.8875	0.9705	0.8797	0.8963	0.8809	1
190450021	2.1216	0.1904	0.5	0.4913	0.4266	4.1243	5.5093	4.4434	8.6139	1.9944	0.1904	1.0625	0.8255	0.9418	0.9785	0.9782	0.9206	0.9401	1
191032001	2.3924	0.0712	0.5	0.7318	0.4842	2.9415	10.9522	5.3914	3.2228	2.0585	0.0712	1.0571	0.8035	0.8647	0.9862	0.8581	0.8746	0.8604	1
191130037	2.0589	0.1717	0.5	0.4183	0.4459	3.7468	3.9489	3.5602	8.4652	1.8679	0.1717	1.0408	0.8106	0.9116	0.9763	0.947	0.8963	0.9072	1
191370002	2.0083	0	0.5	0.9845	0.494	2.8398	5.6978	4.0361	4.6972	1.7232	0	1.0596	0.8202	0.8743	0.992	0.8607	0.8908	0.8581	1
191390015	2.6616	0.242	0.5	0.5512	0.5142	5.0989	7.8104	5.2641	10.9387	2.4829	0.242	1.063	0.8264	0.9456	0.9824	0.9762	0.9253	0.9329	1
191471002	1.9792	0.0617	0.5	0.6952	0.4553	3.4351	2.9911	3.1455	7.8756	1.7156	0.0617	1.0482	0.8106	0.8677	0.9768	0.8711	0.8678	0.8668	1
191530030	1.994	0.1278	0.5	0.7989	0.4075	2.8312	8.0752	4.252	4.3481	1.7739	0.1278	1.0316	0.7802	0.8945	0.9668	0.9086	0.8779	0.8896	1
191532510	1.9939	0.1254	0.5	0.8108	0.3956	2.7804	6.5558	4.0606	4.4119	1.7402	0.1254	1.0352	0.7647	0.8846	0.9682	0.8867	0.8848	0.8728	1
191550009	1.635	0.0197	0.5	1.9422	0.6559	1.6537	13.5302	4.2629	0.371	1.4926	0.0197	1.1341	0.8389	0.906	0.9936	0.9081	0.8169	0.9129	1
191630015	2.3517	0.249	0.5	0.5216	0.4879	4.6094	3.6061	5.0118	9.5519	2.2198	0.249	1.0474	0.8016	0.9466	0.9727	0.9845	0.9256	0.9439	1
191630018	2.2385	0.438	0.5	0.5894	0.5546	4.3362	4.4073	4.7342	8.9175	2.0707	0.438	1.0487	0.7992	0.9331	0.9774	0.964	0.9145	0.925	1
191630019	2.1798	0.3437	0.5	0.7084	0.5127	3.4216	11.7497	4.8144	5.6209	1.9034	0.3437	1.0546	0.794	0.8864	0.983	0.8808	0.8951	0.8732	1
191770006	2.163	0	0.5	0.5691	0.5825	3.8339	3.9268	3.1399	9.2394	1.9517	0	1.0473	0.8263	0.8986	0.9825	0.8854	0.9047	0.9023	1
191930017	1.7439	0	0.5	0.9379	0.4829	3.0697	10.0489	2.8214	7.0482	1.5383	0	1.0699	0.8209	0.8971	0.9971	0.9495	0.8699	0.8821	1
200910007	1.2433	0.045	0.5	0.8934	0.6764	2.282	6.3205	3.006	4.3198	1.1551	0.045	1.0653	0.8072	0.9265	0.9805	0.9288	0.9267	0.929	1
200910010	1.2078	0.0366	0.5	0.8039	0.5473	2.2599	5.3863	2.8278	4.3506	1.1175	0.0366	1.0715	0.8308	0.9285	0.9844	0.9198	0.9323	0.9252	1
201070002	1.3553	0.0199	0.5	0.8822	0.6111	2.3783	6.1131	3.7791	3.6515	1.2539	0.0199	1.0424	0.8584	0.9134	0.9909	0.932	0.8925	0.9252	1

MATS 2.3.1 - Ouput File - 24-hr PM-2.5
2014 Business As Usual Scenario

Year																			
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
201730008	1.7247	0	0.5	0.5418	0.2884	3.2966	3.3349	3.5323	6.7998	1.5544	0	1.0304	0.8569	0.906	0.9848	0.933	0.8906	0.9012	1
201730009	1.6531	0.2304	0.5	0.5924	0.1834	2.672	5.4809	4.6364	4.2946	1.442	0.2304	1.034	0.8569	0.8836	0.9887	0.8622	0.8906	0.8723	1
201730010	1.5901	0.2272	0.5	0.563	0.1692	2.5644	5.8647	4.4539	4.1188	1.3844	0.2272	1.0341	0.8569	0.8835	0.9885	0.862	0.8906	0.8706	1
201910002	1.4843	0	0.5	0.5279	0.2875	2.8507	4.9241	3.1421	5.7777	1.3421	0	1.0384	0.8838	0.9045	0.9925	0.9309	0.8852	0.9041	1
202090021	1.1846	0.0581	0.5	0.8134	0.8391	2.105	8.8807	2.9742	3.9144	1.1022	0.0581	1.0552	0.8193	0.9283	0.981	0.9409	0.9128	0.9305	1
202090022	1.3712	0.0397	0.5	1.031	0.7053	1.9374	8.1814	3.3106	2.7176	1.2235	0.0397	1.0539	0.8054	0.909	0.9814	0.9028	0.9164	0.8923	1
210130002	1.8152	0	0.5	0.9684	1.296	1.6387	13.4481	4.3788	0.664	1.4776	0	1.1009	0.8536	0.8402	0.9956	0.8261	1.0298	0.814	1
210190017	3.3675	0	0.5	0.6273	0.9613	2.7057	7.5686	9.1302	0.2026	2.4619	0	1.088	0.8947	0.7303	0.9958	0.7194	0.9705	0.7311	1
210290006	3.0247	0.0263	0.5	0.9424	0.9506	3.4756	7.7241	7.1422	3.3361	2.3437	0.0263	1.13	0.8391	0.8367	0.9981	0.7797	0.9987	0.7749	1
210430500	2.6683	0.0383	0.5	0.8983	1.1067	2.6326	5.3098	6.6754	1.4021	2.0485	0.0383	1.1717	0.876	0.8096	1.0053	0.7661	1.0272	0.7677	1
210470006	3.9842	0.0087	0.5	1.3135	0.7121	3.8087	4.8283	10.0328	1.8816	3.1815	0.0087	1.1199	0.8215	0.8125	0.9952	0.7988	0.8629	0.7985	1
210590005	3.0369	0.041	0.5	0.4621	0.5791	3.5189	5.7797	8.2658	2.6154	2.4197	0.041	1.1547	0.8518	0.8327	1.011	0.7926	0.9414	0.7967	1
210670012	2.8091	0.0393	0.5	0.7065	0.6874	3.4402	5.6424	6.7566	4.0134	2.2538	0.0393	1.1134	0.8187	0.8483	0.9926	0.7862	0.9824	0.8023	1
210670014	2.8353	0.0321	0.5	0.6604	0.6563	3.2753	7.8531	6.1555	3.7398	2.209	0.0321	1.1336	0.8218	0.8318	0.9954	0.7719	0.9821	0.7791	1
210730006	3.6695	0.0196	0.5	0.7705	0.7514	2.7759	6.6786	7.0998	1.2873	2.5295	0.0196	1.1445	0.8315	0.7247	0.9982	0.6872	1.0593	0.6893	1
210930006	3.223	0.025	0.5	0.9437	0.9076	3.5998	5.6483	7.7147	3.1325	2.4924	0.025	1.136	0.8327	0.829	0.9981	0.7789	0.9857	0.7733	1
211010014	3.1628	0.0155	0.5	1.6512	0.5706	2.8597	8.5518	7.1614	1.3407	2.5545	0.0155	1.1224	0.841	0.8267	1.0087	0.8049	0.9921	0.8077	1
211110043	3.6534	0.0217	0.5	1.3305	0.8486	2.8487	10.1629	7.5938	0.7497	2.6734	0.0217	1.1223	0.8175	0.7543	0.9978	0.7384	0.9938	0.7318	1
211110044	3.9481	0.0226	0.5	1.1608	0.8741	3.3058	8.2976	8.5331	1.3801	2.9366	0.0226	1.092	0.8137	0.7739	0.9859	0.7484	0.9599	0.7438	1
211110048	3.4166	0	0.5	0.6669	0.8378	3.1657	9.0966	7.5773	2.2632	2.4802	0	1.1109	0.8153	0.7677	0.9915	0.724	0.9599	0.7259	1
211110051	4.9349	0.0305	0.5	1.237	0.8715	3.041	5.1079	9.2301	0	3.3015	0.0305	1.1422	0.8244	0.6701	0.9948	0.6701	1	0.669	1
211170007	3.3745	0.0214	0.5	0.8584	0.8407	3.1676	6.6498	8.2934	1.9551	2.5118	0.0214	1.1306	0.8333	0.778	0.9934	0.7383	0.9578	0.7444	1
211451004	3.4385	0.0242	0.5	0.8741	0.7265	2.2368	12.8356	6.8577	0	2.3525	0.0242	1.1054	0.8366	0.6909	0.9969	0.6836	1	0.6842	1
211510003	2.9456	0.017	0.5	0.7528	0.8493	3.4165	4.7231	6.7765	3.7649	2.2715	0.017	1.1478	0.8361	0.8245	1.001	0.7707	0.9505	0.7711	1
211830032	3.5786	0.0322	0.5	0.7219	0.732	3.6945	5.1345	8.562	2.6973	2.8063	0.0322	1.1708	0.8461	0.8265	1.0086	0.7916	0.9417	0.7842	1
211950002	3.1504	0.0262	0.5	0.7229	1.0567	2.141	8.4834	6.5776	0.1734	2.198	0.0262	1.1139	0.9009	0.7035	0.9952	0.6961	0.979	0.6977	1
230010011	1.4656	0	0.5	0.4731	0.6342	1.356	13.2917	4.187	0.3338	1.227	0	1.0242	0.9103	0.85	0.9863	0.8295	1.0303	0.8372	1
230050015	1.1467	0.0117	0.5	0.3996	0.568	1.058	12.1236	3.4123	0.172	0.963	0.0117	1.029	0.8784	0.8442	0.983	0.8364	1.0532	0.8398	1
230090103	2.2975	0	0.5	0.5991	0.5699	1.9656	5.2623	5.9825	0.4014	1.865	0	1.059	0.9024	0.8277	0.9861	0.8129	1.0907	0.8118	1
230110016	1.0399	0	0.5	0.3652	0.5772	1.0649	11.9046	2.8306	0.5379	0.9147	0	1.0289	0.9067	0.9144	0.9783	0.889	1.0538	0.8796	1
230172011	0.9426	0	0.5	0.3369	0.4697	0.8842	15.7046	2.4999	0.2909	0.8257	0	1.0467	0.9162	0.8909	0.98	0.88	0.9787	0.876	1
230190002	1.6966	0	0.5	0.77	1.142	1.7359	9.1113	4.4353	0.8981	1.4678	0	1.0407	0.9027	0.895	0.9807	0.8738	1.0402	0.8651	1
240031003	2.7488	0.0417	0.5	1.0317	1.204	3.8859	7.7809	7.9238	5.1313	2.3024	0.0417	1.094	0.8278	0.8843	0.9881	0.7788	1.1045	0.8376	1
240051007	3.8647	0.1033	0.5	1.0456	1.2114	3.5483	7.5272	8.7278	1.9639	3.0668	0.1033	1.0764	0.8314	0.8314	0.9897	0.7946	1.1115	0.7935	1
240053001	2.0636	0.1572	0.5	0.7979	1.4529	2.8863	14.091	5.5097	3.1589	1.6964	0.1572	1.0673	0.8281	0.8874	0.9821	0.829	1.0463	0.8221	1
240251001	2.4211	0.3645	0.5	0.7781	1.0718	3.4663	5.8442	6.4922	4.2741	2.0309	0.3645	1.0674	0.8577	0.9246	0.9846	0.8425	1.1093	0.8388	1
240313001	2.895	0.0699	0.5	0.9553	0.8648	2.7567	7.721	7.1229	1.787	2.1774	0.0699	1.0848	0.8314	0.7938	0.9901	0.7432	1.095	0.7521	1
240338003	2.5486	0.1553	0.5	1.0342	1.3177	3.2916	6.9984	7.3372	3.7249	1.9247	0.1553	1.0969	0.8268	0.821	0.99	0.7184	1.0892	0.7552	1
240430009	1.8665	0.1452	0.5	0.7797	1.0726	3.1438	11.1444	5.041	4.4287	1.5909	0.1452	1.0908	0.8476	0.9054	0.9928	0.8287	1.0499	0.8523	1
245100006	3.8099	0.0746	0.5	0.9573	1.0647	3.2218	9.3501	8.6898	1.2423	2.8808	0.0746	1.072	0.82	0.7869	0.9858	0.7549	1.1056	0.7561	1
245100007	2.4873	0.091	0.5	1.212	1.721	3.6835	8.1054	6.8002	4.7996	2.1301	0.091	1.0515	0.8105	0.9341	0.9788	0.8524	1.1065	0.8564	1
245100008	3.7787	0.0677	0.5	0.8771	0.9863	3.3757	11.6658	9.1565	1.1614	3.0467	0.0677	1.056	0.8395	0.8328	0.9883	0.8097	1.1074	0.8063	1
245100040	2.1842	0.0978	0.5	0.9224	1.4016	3.337	13.0254	6.2295	4.3321	1.9448	0.0978	1.0479	0.843	0.9567	0.9817	0.8806	1.1074	0.8904	1
250035001	1.4184	0	0.5	0.5351	0.7069	1.6475	15.7606	3.7692	1.1665	1.2555	0	1.0693	0.8979	0.9088	0.9937	0.8918	1.0048	0.8851	1
250051004	2.727	0.1602	0.5	0.9525	0.7799	2.1553	8.5261	5.9355	0.6228	2.028	0.1602	1.2824	0.8799	0.7751	1.0026	0.7526	1.0936	0.7437	1
250092006	2.3886	0.0933	0.5	0.6288	1.0097	2.7681	8.0766	6.1026	2.4452	2.0173	0.0933	1.0381	0.8849	0.8952	0.9725	0.8426	1.0713	0.8445	1
250095005	2.2843	0.087	0.5	0.5447	0.8009	2.2437	8.805	6.7723	0.9021	1.8705	0.087	1.0316	0.8841	0.8389	0.9808	0.816	1.0911	0.8188	1
250096001	2.563	0.0739	0.5	0.6136	0.8123	2.3162	10.3418	6.5388	0.908	2.0741	0.0739	1.0357	0.883	0.8343	0.9797	0.8074	1.0871	0.8092	1
250130008	1.4261	0.0255	0.5	0.4468	1.0339	2.2495	12.143	4.0708	3.0827	1.2813	0.0255	1.0321	0.8826	0.9397	0.9731	0.893	1.0346	0.8984	1
250130016	2.2921	0.0205	0.5	0.5626	0.8786	2.2164	15.7654	5.4247	1.2141	1.8819	0.0205	1.0439	0.862	0.8551	0.9781	0.8265	1.0281	0.821	1
250132009	1.2975	0.0288	0.5	0.4183	0.9099	1.9885	16.8433	3.7111	2.5828	1.1586	0.0288	1.0363	0.8766	0.9447	0.9736	0.8938	1.0296	0.893	1
250170009	1.7672	0.0844	0.5	0.539	0.8682	1.8931	6.5668	4.8285	1.316	1.4487	0.0844	1.0289	0.8702	0.8577	0.9744	0.8164	1.0448	0.8197	1
250230004	2.7077	0.1584	0.5	0.6656	1.0034	2.8434	7.867	6.627	2.2633	2.1194	0.1584	1.053	0.883	0.8378	0.9743	0.7853	1.0573	0.7827	1
250250002	2.4991	0.0655	0.5	0.8045	0.9547	2.6335	12.0105	6.2894	1.1548	2.2093	0.0655	1.0357	0.8799	0.8963	0.9654	0.8784	1.0574	0.884	1
250250027	2.4646	0.0605	0.5	0.7862	0.9038	2.5292	10.4342	6.1342	1.0019	2.1666	0.0605	1.0361	0.8796	0.8966	0.965	0.8775	1.057	0.8791	1
250250042	2.3715	0.0855	0.5	0.6143	0.9658	2.847	10.5517	6.0793	2.5632	2.044	0.0855	1.0294	0.8838	0.9074	0.9661	0.8611	1.0643	0.8619	1
250250043	1.4048	0.0712	0.5	0.6108	1.1397	2.3163	13.1439	4.1586	2.794	1.3026	0.0712	1.0257	0.8788	0.961	0.96	0.9189	1.0462	0.9272	1

MATS 2.3.1 - Ouput File - 24-hr PM-2.5
2014 Business As Usual Scenario

Year																			
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
250270016	2.257	0.0955	0.5	0.6692	0.9244	2.4663	11.3166	6.0762	1.8579	1.7699	0.0955	1.0493	0.8721	0.8333	0.9738	0.7802	1.0573	0.7842	1
250270023	2.0977	0.0841	0.5	0.6375	0.8837	2.2572	12.1846	5.1898	1.6791	1.7354	0.0841	1.0507	0.8694	0.8761	0.9733	0.8335	1.0573	0.8273	1
260050003	1.9989	0.049	0.5	0.3222	0.4629	3.9678	8.7559	4.7131	7.6732	1.8781	0.049	1.1084	0.8196	0.9339	0.9965	0.919	0.9501	0.9395	1
260170014	1.4903	0.1308	0.5	0.8282	0.517	2.8618	8.6026	3.7892	5.2051	1.3985	0.1308	1.0675	0.7979	0.9476	0.9823	0.9277	0.962	0.9384	1
260210014	3.5022	0.17	0.5	1.0223	0.7711	3.5693	5.5633	7.9251	2.9286	2.9006	0.17	1.0824	0.8193	0.8548	0.9928	0.8218	0.9735	0.8282	1
260490021	1.8688	0.2422	0.5	1.4136	0.6911	3.6333	4.6038	4.6994	6.6598	1.7513	0.2422	1.0817	0.7605	0.94	0.9749	0.9322	0.9464	0.9371	1
260650012	2.6113	0.1214	0.5	1.4385	0.6988	3.217	6.5765	6.0839	3.8701	2.2459	0.1214	1.0811	0.779	0.8802	0.9806	0.8529	0.9334	0.8601	1
260770008	1.7496	0.1656	0.5	0.8718	0.9441	2.7167	10.7121	4.8238	4.1295	1.5752	0.1656	1.0749	0.8159	0.9054	0.9888	0.8903	0.9228	0.9003	1
260810020	1.8282	0.0554	0.5	0.3955	0.4963	3.791	8.5109	4.3597	7.4347	1.769	0.0554	1.0982	0.7466	0.9706	0.9754	0.9597	0.976	0.9676	1
260990009	2.6627	0.1638	0.5	2.2129	0.701	3.5457	6.9432	6.2717	4.459	2.2449	0.1638	1.1168	0.7677	0.8932	0.9757	0.8491	0.961	0.8431	1
261130001	1.2779	0.02	0.5	0.2585	0.4635	2.0454	7.7635	3.2586	3.5248	1.1115	0.02	1.079	0.8291	0.8756	0.9919	0.8681	0.8871	0.8698	1
261150005	3.1497	0.0299	0.5	0.4799	0.5612	3.8388	8.001	7.6953	4.0799	2.7367	0.0299	1.0869	0.8139	0.8919	0.9864	0.8759	0.9379	0.8689	1
261210040	2.2527	0.0476	0.5	0.4402	0.5562	3.2467	9.2446	5.0419	4.8579	1.949	0.0476	1.0766	0.8147	0.8862	0.9907	0.8525	0.9287	0.8652	1
261250001	3.1566	0.2569	0.5	3.2766	0.8723	3.7716	6.1978	6.7996	4.8251	2.5234	0.2569	1.0949	0.7432	0.8374	0.9711	0.8036	0.8926	0.7994	1
261390005	1.9944	0.0554	0.5	0.4283	0.5523	4.155	6.9254	4.8496	8.1068	1.9545	0.0554	1.1045	0.7976	0.974	0.9882	0.9567	0.9854	0.98	1
261470005	3.0339	0.2031	0.5	2.0732	0.8039	3.7762	10.7956	7.2664	4.2576	2.5618	0.2031	1.0761	0.835	0.887	0.9867	0.8443	0.9671	0.8444	1
261610008	1.6815	0.059	0.5	0.3122	0.5044	3.1256	11.5638	3.4399	6.3298	1.4672	0.059	1.0583	0.7772	0.8685	0.9655	0.8702	0.8687	0.8726	1
261630001	2.0942	0.0721	0.5	0.7619	0.7455	4.1123	8.8039	5.2403	7.4783	1.9468	0.0721	1.0876	0.7781	0.9335	0.9713	0.9325	0.9325	0.9296	1
261630015	3.0092	0.0795	0.5	2.6579	0.8498	4.29	8.3129	7.8489	5.4618	2.7344	0.0795	1.0773	0.7994	0.9339	0.9924	0.9131	0.952	0.9087	1
261630016	2.9451	0.0958	0.5	2.8114	0.7649	3.9259	7.69	6.9671	4.9383	2.5382	0.0958	1.0886	0.7891	0.9001	0.9926	0.8695	0.952	0.8619	1
261630019	2.7954	0.1209	0.5	2.8019	0.7235	3.7614	9.0966	6.567	4.84	2.3758	0.1209	1.0913	0.7516	0.8931	0.9723	0.8543	0.9491	0.8499	1
261630025	1.9314	0.2383	0.5	1.4389	0.7336	3.7513	8.2829	4.8215	6.8467	1.7875	0.2383	1.0897	0.7637	0.9271	0.9726	0.9292	0.9241	0.9255	1
261630033	3.1863	0.0858	0.5	2.9984	0.8979	4.5399	9.2248	8.4225	5.7143	2.8817	0.0858	1.0773	0.7995	0.9293	0.9926	0.9119	0.952	0.9044	1
261630036	2.1226	0.0827	0.5	0.8511	0.6682	4.3351	5.2282	5.3525	8.1195	2.0454	0.0827	1.1026	0.808	0.9648	0.9878	0.9757	0.9563	0.9636	1
261630039	3.8206	0.108	0.5	3.9004	0.8079	3.8696	5.6239	8.4795	3.1179	3.1066	0.108	1.0876	0.787	0.8468	0.9879	0.8172	0.952	0.8131	1
270370470	1.7929	0.0777	0.5	0.7156	0.6437	2.8088	6.4831	4.0193	4.5641	1.6072	0.0777	1.0325	0.8084	0.8875	0.9745	0.8965	0.8797	0.8964	1
270530961	1.7743	0.0957	0.5	0.4616	0.714	3.222	3.8475	3.8974	6.1972	1.6008	0.0957	1.0288	0.8347	0.8981	0.9683	0.9248	0.8799	0.9022	1
270530963	1.845	0.0675	0.5	0.3449	0.3751	3.2804	4.5307	2.5377	8.0303	1.6666	0.0675	1.022	0.8335	0.917	0.9681	0.964	0.899	0.9033	1
270531007	1.8986	0.1058	0.5	0.4932	0.7033	3.4578	5.6233	4.0243	6.8442	1.7243	0.1058	1.0217	0.8079	0.908	0.9645	0.9374	0.8897	0.9082	1
271230866	2.3014	0.1379	0.5	0.4139	0.5739	3.6546	5.1398	4.3043	7.1326	2.0821	0.1379	1.0301	0.8275	0.9047	0.968	0.9159	0.8991	0.9047	1
271230868	2.139	0.1013	0.5	0.8159	0.6583	3.1367	8.4746	4.7069	4.7991	1.9532	0.1013	1.024	0.8135	0.9105	0.9666	0.9201	0.895	0.9131	1
271230871	2.9003	0.1892	0.5	0.4831	0.7821	4.4424	3.8575	6.6157	6.8399	2.6681	0.1892	1.0269	0.819	0.9131	0.9676	0.9294	0.8943	0.9199	1
271377001	1.2243	0	0.5	0.7519	0.3752	1.3207	7.7671	2.8625	1.1376	1.032	0	0.9692	0.8562	0.8605	0.9615	0.842	0.9194	0.8429	1
271377550	2.2668	0.0071	0.5	0.8885	0.4587	2.6042	4.792	5.2444	2.2748	2.0362	0.0071	1.0159	0.8945	0.9021	0.9843	0.8918	0.9385	0.8983	1
271377551	1.7916	0.0224	0.5	0.9418	0.4645	2.4684	8.033	4.071	3.5148	1.5812	0.0224	1.0354	0.8821	0.8924	0.9862	0.8691	0.9279	0.8826	1
271390505	1.7316	0.0752	0.5	0.6534	0.6048	2.765	6.0081	3.6606	4.8826	1.5409	0.0752	1.0325	0.8086	0.8839	0.9766	0.8913	0.8773	0.8899	1
271453052	1.576	0.0641	0.5	0.9061	0.4796	2.6597	3.9382	3.2967	5.2874	1.4117	0.0641	1.0314	0.8297	0.8872	0.9743	0.8983	0.8791	0.8958	1
280330002	3.615	0.0087	0.5	0.7667	1.3111	3.3418	6.0029	10.2261	0	3.6211	0.0087	1	1	0.9991	1	1	1	1.0017	1
290210005	1.6963	0.0244	0.5	0.8857	0.544	2.5417	10.8533	3.8812	3.9179	1.5058	0.0244	1.0581	0.8173	0.9035	0.9894	0.889	0.9197	0.8877	1
290370003	1.4306	0.0415	0.5	0.9178	0.6282	2.6719	5.5752	3.3287	5.1388	1.3147	0.0415	1.0797	0.8417	0.9271	0.9886	0.9122	0.9353	0.919	1
290470005	1.4085	0.037	0.5	0.46	0.4242	2.8139	7.3725	3.5199	5.1554	1.3112	0.037	1.0496	0.8149	0.9255	0.9813	0.9237	0.93	0.9309	1
290770032	1.4	0	0.5	0.7203	0.5524	2.3649	10.3079	4.3502	2.6795	1.3442	0	1.0645	0.8163	0.9384	0.9752	0.966	0.8902	0.9601	1
290950034	1.4571	0.066	0.5	0.9715	0.9618	2.6032	9.1096	3.6243	4.8815	1.3582	0.066	1.0518	0.7777	0.9291	0.9742	0.9354	0.9228	0.9321	1
291860006	2.7339	0.019	0.5	0.8606	0.4125	2.6587	9.6912	6.5632	1.4322	2.2945	0.019	0.9796	0.8286	0.8503	0.9708	0.8397	0.9272	0.8393	1
291892003	2.2559	0.0347	0.5	0.8578	0.5348	3.0761	8.8132	6.0645	3.3202	2.0028	0.0347	1.0645	0.7429	0.8976	0.9718	0.8943	0.899	0.8878	1
295100007	1.9198	0.0268	0.5	0.605	0.5885	3.4692	9.8948	5.5426	5.0331	1.7758	0.0268	1.0954	0.807	0.9255	0.975	0.9295	0.9132	0.925	1
295100085	3.1953	0.0197	0.5	0.9596	0.5101	3.4021	8.5228	7.9835	2.4954	2.6779	0.0197	1.0684	0.7549	0.857	0.9733	0.8411	0.8936	0.8381	1
295100087	2.3663	0.0381	0.5	0.8556	0.5361	3.2049	10.6881	6.3656	3.336	2.1295	0.0381	1.0586	0.7535	0.9075	0.9689	0.9061	0.9024	0.8999	1
310550019	1.6623	0.0801	0.5	1.0803	0.584	2.3972	8.0469	3.1906	4.4444	1.4796	0.0801	1.1279	0.8602	0.9136	0.9876	0.9383	0.8862	0.8901	1
310550052	1.4712	0.0484	0.5	1.3431	0.6184	2.2696	8.5491	2.9096	4.1599	1.3293	0.0484	1.0782	0.8406	0.9111	0.9878	0.942	0.8885	0.9035	1
310790004	0.9899	0.0171	0.5	0.768	0.5632	2.0174	6.2976	2.4064	4.0107	0.9939	0.0171	1	1	1.0017	1	1	1	1.0041	1
311090022	1.5106	0.0108	0.5	1.3748	0.4827	1.3124	7.711	3.5297	0.1645	1.2543	0.0108	1.0407	0.7629	0.8363	0.9817	0.8309	0.8108	0.8304	1
311530007	1.8976	0.0425	0.5	1.8107	0.6747	1.6515	11.9791	4.5595	0.2108	1.6202	0.0425	1.2181	0.9344	0.8555	1.0067	0.8525	0.8277	0.8538	1
311770002	1.5063	0.0598	0.5	0.9918	0.42	2.2868	6.8944	2.8818	4.2572	1.3527	0.0598	1.0648	0.8299	0.9107	0.99	0.9179	0.9093	0.898	1
330012004	1.717	0.0139	0.5	0.5203	0.5192	1.4571	4.7361	4.9788	0.2578	1.2302	0.0139	1.0497	0.9008	0.727	0.986	0.7143	1.0328	0.7165	1
330090010	1.2874	0.0239	0.5	0.4745	0.5353	1.291	8.9921	3.8204	0.553	1.056	0.0239	1.0517	0.903	0.8333	0.9856	0.8079	1.0074	0.8202	1
330111015	1.8676	0.1481	0.5	0.6722	1.2116	2.1391	11.4951	5.5236	1.6596	1.5582	0.1481	1.0134	0.9077	0.8714	0.9843	0.8298	1.0234	0.8343	1

MATS 2.3.1 - Ouput File - 24-hr PM-2.5
2014 Business As Usual Scenario

Year																				
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt	
330131006	1.5119	0.1411	0.5	0.5959	1.0389	1.6634	10.6658	4.2878	1.4433	1.1769	0.1411	1.0482	0.9053	0.821	0.9864	0.7642	1.0589	0.7784	1	
330150014	1.7302	0.0672	0.5	0.4819	0.7786	1.9175	9.2054	6.5458	0.8047	1.4045	0.0672	1.0521	0.8876	0.8289	0.9816	0.802	1.0632	0.8118	1	
330190003	1.3744	0.0365	0.5	0.5076	0.5451	1.4182	9.5785	4.0748	0.7852	1.0808	0.0365	1.0646	0.8992	0.8169	0.9845	0.7758	1.0425	0.7864	1	
340030003	3.3226	0.4782	0.5	1.1595	1.9317	4.3358	6.5674	7.7084	5.3057	2.7392	0.4782	1.0572	0.8362	0.8727	0.9826	0.8082	1.0286	0.8244	1	
340070003	3.7737	0.1432	0.5	1.7636	1.1806	3.4458	10.2859	8.2966	1.4802	2.9212	0.1432	1.0364	0.8403	0.7983	0.9702	0.779	0.9751	0.7741	1	
340071007	2.0612	0.2563	0.5	1.4991	1.6568	3.5975	10.8834	6.0673	4.5654	1.8695	0.2563	1.0333	0.8337	0.9212	0.9647	0.9001	0.9591	0.907	1	
340171003	2.0438	0.2534	0.5	1.0457	1.8002	4.0272	13.4425	6.2439	5.8328	2.0247	0.2534	1.0557	0.8723	0.9746	0.9851	0.9829	0.9706	0.9907	1	
340172002	2.607	0.1078	0.5	1.0955	1.7235	3.3427	15.1968	6.8762	2.6348	2.2452	0.1078	1.0355	0.833	0.8852	0.9747	0.8645	0.9511	0.8612	1	
340210008	2.0518	0.1263	0.5	0.9638	1.6622	3.7055	10.1416	5.5979	5.5777	1.7929	0.1263	1.0528	0.8358	0.9171	0.9677	0.8485	1.0333	0.8738	1	
340230006	2.8886	0.1082	0.5	0.765	1.3599	3.451	8.1976	6.9733	3.1335	2.371	0.1082	1.0548	0.8271	0.8686	0.9783	0.8178	1.0289	0.8208	1	
340270004	2.0185	0.1544	0.5	0.7398	1.5769	3.3786	6.8947	5.6659	4.4756	1.813	0.1544	1.0542	0.8524	0.9367	0.9792	0.8746	1.0551	0.8982	1	
340273001	3.4215	0.0526	0.5	0.4863	0.4739	2.9331	7.5153	8.0394	0.8299	2.7725	0.0526	1.0642	0.8475	0.8319	0.9844	0.816	1.0181	0.8103	1	
340292002	3.4066	0.0867	0.5	1.0692	1.3084	2.984	6.5779	7.581	1.0121	2.6579	0.0867	1.0785	0.8441	0.8057	0.9821	0.786	1.0083	0.7802	1	
340310005	2.1261	0.3983	0.5	1.0247	2.109	3.961	8.6761	5.9429	6.109	1.9949	0.3983	1.0454	0.8382	0.9512	0.9812	0.8987	1.0249	0.9383	1	
340390004	1.942	0.2865	0.5	1.1816	3.2034	3.2721	13.0452	5.5612	4.4275	1.7889	0.2865	1.0509	0.8435	0.9409	0.9851	0.8992	1.0036	0.9212	1	
340390006	2.06	0.3433	0.5	1.2625	3.5105	3.5876	10.7073	5.6325	5.5926	1.8659	0.3433	1.0506	0.8739	0.933	0.9807	0.882	1.0055	0.9058	1	
360050080	2.198	0.4191	0.5	1.268	2.2068	3.8015	12.2964	6.7126	4.5555	2.104	0.4191	1.0357	0.8315	0.9665	0.9789	0.9559	0.9766	0.9572	1	
360050110	2.3336	0.7033	0.5	1.1246	2.3665	4.3813	6.3575	6.7094	6.9179	2.2361	0.7033	1.0347	0.8608	0.9652	0.9797	0.937	1.0019	0.9582	1	
360130011	2.5842	0.0871	0.5	0.8027	0.6492	2.6945	6.6377	5.9164	2.0449	2.0484	0.0871	1.1637	0.8763	0.8408	1.0147	0.7925	1.0538	0.7927	1	
360290005	2.016	0.1728	0.5	1.2893	0.7377	3.4786	8.8994	5.1214	6.9622	1.9467	0.1728	1.1781	0.8833	0.9741	1.0232	0.8936	1.042	0.9656	1	
360291007	3.1416	0.117	0.5	1.1383	0.7149	3.5336	7.2342	7.3362	4.0713	2.6739	0.117	1.1472	0.8802	0.8816	1.0175	0.8247	1.042	0.8511	1	
360310003	1.1815	0.01	0.5	0.3069	0.1662	1.274	6.7896	3.3675	1.103	0.9286	0.01	1.0695	0.9232	0.8227	0.9958	0.7716	1.0078	0.7859	1	
360470122	3.7606	0.0854	0.5	1.2245	1.6659	3.9731	8.5681	9.3	1.7179	3.1996	0.0854	1.0334	0.8225	0.8673	0.9822	0.8542	0.9619	0.8508	1	
360551007	1.8582	0.0826	0.5	0.5296	0.7206	3.3559	7.3036	4.9215	5.5939	1.7189	0.0826	1.1047	0.8799	0.9366	1.0121	0.8909	0.9906	0.925	1	
360590008	2.0818	0.2931	0.5	1.133	2.2197	3.6919	7.8881	6.1426	4.8448	1.9406	0.2931	1.0507	0.8884	0.9413	0.9834	0.9187	0.9738	0.9321	1	
360610056	2.2768	0.4408	0.5	1.002	1.907	4.4512	10.1174	6.3738	7.2067	2.1865	0.4408	1.0307	0.8561	0.967	0.9806	0.9473	0.9898	0.9603	1	
360610079	3.9088	0.1674	0.5	1.4191	1.876	4.0612	8.7701	9.7095	1.5383	3.3376	0.1674	1.0272	0.8395	0.8653	0.9825	0.8583	0.9434	0.8539	1	
360632008	1.7898	0.12	0.5	0.8819	0.731	2.943	8.6789	5.0038	4.5398	1.6771	0.12	1.0951	0.9244	0.9479	1.006	0.9112	0.9938	0.937	1	
360671015	2.5182	0.0131	0.5	0.7009	0.5534	2.7511	6.4958	6.0383	2.4978	2.0464	0.0131	1.1028	0.8722	0.8512	1.0044	0.8068	1.0063	0.8126	1	
360710002	3.5153	0.0539	0.5	0.96	1.0594	2.8296	7.2594	7.637	0.6823	2.6671	0.0539	1.0595	0.8566	0.7819	0.9935	0.7629	0.9962	0.7587	1	
360810124	2.0957	0.467	0.5	1.0381	2.0089	3.9001	7.8237	5.9626	5.9242	1.987	0.467	1.0479	0.852	0.9555	0.9812	0.9279	0.9883	0.9481	1	
360850067	2.3638	0.1805	0.5	1.037	2.3394	3.024	8.7852	6.0911	2.6624	2.0354	0.1805	1.0486	0.8506	0.8906	0.9825	0.8588	0.9885	0.861	1	
360893001	1.7388	0.0112	0.5	0.449	0.3182	1.6998	4.6253	4.8886	1.1805	1.2952	0.0112	1.0746	0.9405	0.7703	1.0005	0.7253	0.9645	0.7449	1	
361010003	2.2571	0.0233	0.5	0.4668	0.3913	2.2267	6.4521	7.1745	0.9693	1.6736	0.0233	1.1631	0.8691	0.7684	1.004	0.728	1.0409	0.7415	1	
361030002	2.6037	0.2129	0.5	1.0166	1.619	3.2196	6.533	6.3602	3.0009	2.175	0.2129	1.0697	0.8372	0.8713	0.9885	0.8304	1.0052	0.8354	1	
361191002	2.661	0.327	0.5	1.2718	1.9821	3.5265	7.5547	6.8321	3.494	2.2806	0.327	1.0567	0.8371	0.8943	0.9843	0.8523	1.0156	0.857	1	
370010002	3.1443	0.0174	0.5	0.5467	0.574	2.1344	11.1286	6.4675	0.0301	2.2412	0.0174	1.0751	0.8152	0.7114	0.9866	0.7067	0.9409	0.7128	1	
370210034	2.3917	0.0166	0.5	0.49	0.5908	1.8509	10.667	6.0658	0.2229	1.6209	0.0166	1.0642	0.8617	0.6748	0.9906	0.6596	0.9349	0.6777	1	
370330001	3.3417	0.0267	0.5	0.5476	0.5096	2.2189	9.8843	6.5453	0	2.3996	0.0267	1.0781	0.8288	0.7155	0.9886	0.718	1	0.7181	1	
370350004	1.6352	0.134	0.5	0.5572	1.4502	1.9744	14.2354	4.233	1.3412	1.3568	0.134	1.0641	0.8193	0.8642	0.9857	0.8408	0.9706	0.8298	1	
370510009	3.0935	0	0.5	0.7041	0.5322	2.4716	11.104	6.9722	0	2.5786	0	1.0356	0.8145	0.8306	0.9852	0.8316	1	0.8336	1	
370570002	3.2651	0.0101	0.5	0.6691	0.7656	2.3903	10.2251	6.8827	0.1704	2.4057	0.0101	1.0694	0.8235	0.7467	0.9899	0.7349	1.0333	0.7368	1	
370610002	2.4203	0.0226	0.5	0.5121	0.576	1.8181	9.6903	4.9797	0.1623	1.8111	0.0226	1.0417	0.8978	0.7479	0.9933	0.7476	0.7723	0.7483	1	
370650004	2.1998	0.0241	0.5	0.5128	0.8884	1.9915	11.0956	5.0729	0.3582	1.7882	0.0241	1.0534	0.851	0.8095	0.987	0.8136	0.811	0.8129	1	
370670022	1.7596	0.0721	0.5	0.4281	1.0175	2.1135	13.0472	4.3914	1.693	1.4595	0.0721	1.0632	0.7996	0.8613	0.9799	0.8273	1.0044	0.8294	1	
370670030	2.6102	0.0626	0.5	0.4763	0.8135	2.3048	11.2359	5.752	0.8701	2.0181	0.0626	1.07	0.8216	0.8003	0.9865	0.7773	1.0275	0.7732	1	
370710016	3.1993	0.0233	0.5	0.8103	0.7674	2.2725	8.3059	6.825	0.1627	2.2773	0.0233	1.0564	0.8171	0.7189	0.9863	0.7074	0.9918	0.7118	1	
371070004	1.6237	0.0209	0.5	0.2716	0.5566	1.2306	12.2204	3.3879	0	1.2348	0.0209	1.055	0.8632	0.7606	0.9903	0.7615	1	0.7605	1	
371110004	3.1692	0	0.5	0.652	0.6921	2.1756	10.425	6.4539	0.2161	2.1642	0	1.0893	0.8745	0.6942	0.9885	0.681	0.9964	0.6829	1	
371170001	2.3588	0.0361	0.5	0.5295	0.7542	2.1541	7.7188	5.4112	0.608	1.8951	0.0361	1.0652	0.9006	0.8107	0.9926	0.8036	0.8735	0.8034	1	
371190041	3.048	0.0266	0.5	1.0203	0.8079	2.5879	9.2725	7.1983	0.2978	2.5407	0.0266	1.048	0.7928	0.8424	0.9785	0.8309	0.9791	0.8336	1	
371190042	3.0226	0.0254	0.5	0.9782	0.8276	2.5796	8.3084	7.1401	0.3094	2.5264	0.0254	1.0472	0.7928	0.843	0.9784	0.8345	0.9791	0.8358	1	
371190043	2.8794	0.0264	0.5	0.6535	1.0095	3.0067	8.2082	6.9148	1.5772	2.3252	0.0264	1.0655	0.8404	0.8494	0.9869	0.8248	1.0405	0.8075	1	
371210001	2.2475	0	0.5	0.6449	0.974	1.9522	11.0196	5.0201	0.3612	1.7913	0	1.1119	0.8762	0.7998	0.9956	0.7959	0.9341	0.797	1	
371230001	3.1471	0.0249	0.5	0.5184	0.5857	2.1935	7.9587	6.6629	0.0566	2.2531	0.0249	1.0841	0.8556	0.7184	0.9882	0.7108	0.9068	0.7159	1	
371290002	3.5849	0.0221	0.5	0.7961	0.9014	2.7668	10.8736	7.503	0.4091	2.6953	0.0221	1.0695	0.8939	0.759	0.9923	0.7525	0.8782	0.7518	1	
371470005	2.1586	0.0229	0.5	0.4201	0.6807	1.8282	10.9092	4.8196	0.2447	1.726	0.0229	1.0382	0.8982	0.8013	0.9933	0.7977	0.8429	0.7996	1	

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Year																			
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
371550005	3.4698	0	0.5	0.2983	0.5957	2.6431	8.3441	7.3055	0.2166	2.6608	0	1.0638	0.8654	0.7699	0.9888	0.7672	0.8095	0.7669	1
371590021	2.5482	0	0.5	0.493	0.2781	1.5391	14.5579	4.636	0	1.6717	0	1.0584	0.8458	0.6532	0.9931	0.6558	1	0.656	1
371730002	1.7505	0	0.5	0.6153	0.7194	1.608	12.0254	3.9196	0.6655	1.3629	0	1.0686	0.8676	0.8024	0.9888	0.7842	0.9631	0.7785	1
371830014	2.6315	0.0079	0.5	0.6393	0.9036	2.395	11.9107	6.1953	0.3375	2.2009	0.0079	1.0495	0.7634	0.8321	0.9766	0.8333	0.8437	0.8364	1
371890003	3.034	0.0173	0.5	0.5722	0.6386	2.0557	7.8542	6.0004	0.1818	2.0903	0.0173	1.1147	0.8616	0.6997	0.9912	0.6907	0.9007	0.689	1
371910005	3.1146	0.0174	0.5	0.5116	0.558	2.0943	12.2133	5.8836	0.0128	2.1644	0.0174	1.0567	0.8694	0.7004	0.9921	0.6962	0.7754	0.6949	1
380171004	1.5279	0.0123	0.5	1.7183	0.3938	1.1866	9.0171	3.2907	0	1.1957	0.0123	1.0285	0.8122	0.7827	0.9797	0.7825	1	0.7826	1
390090003	3.7073	0	0.5	1.19	0.6976	2.7787	6.3289	10.0789	0	2.4805	0	1.2277	0.8802	0.6667	1.0011	0.6671	1	0.6691	1
390170003	4.492	0.0086	0.5	1.0172	0.7807	4.2409	4.3202	10.7804	2.2642	3.7909	0.0086	1.2297	0.8197	0.862	1.0105	0.8415	0.9824	0.8439	1
390170016	3.6485	0.2266	0.5	0.9903	1.094	3.4401	10.8062	9.1224	1.2028	3.1069	0.2266	1.1452	0.7924	0.8588	0.9917	0.8526	0.9023	0.8515	1
390230005	4.346	0.0316	0.5	0.6974	0.5702	3.4895	7.8988	8.7971	1.5963	3.2717	0.0316	1.1671	0.8087	0.7692	0.9981	0.7509	0.9346	0.7528	1
390250022	4.1602	0.1046	0.5	0.8724	1.007	3.5588	5.3207	10.3426	0.7615	3.432	0.1046	1.2743	0.8388	0.8375	1.0093	0.8285	0.9585	0.825	1
390350027	3.0928	0.8144	0.5	2.5563	1.2531	4.474	8.3482	8.0824	5.0822	2.7558	0.8144	1.1002	0.8068	0.9141	0.9797	0.8868	0.9698	0.891	1
390350034	4.2648	0.3419	0.5	2.0613	1.1126	3.884	4.9233	8.8572	2.315	3.1724	0.3419	1.1612	0.8053	0.781	0.9864	0.7468	0.9783	0.7439	1
390350038	3.3311	0.7332	0.5	2.1755	1.228	4.3282	10.6964	7.9794	4.764	2.7427	0.7332	1.127	0.8114	0.869	0.9847	0.8252	0.9738	0.8234	1
390350045	2.3551	0.8341	0.5	2.1445	1.4076	4.2121	5.8115	6.7729	5.7664	2.1539	0.8341	1.1048	0.8056	0.9212	0.9827	0.908	0.9356	0.9146	1
390350060	2.4147	0.8171	0.5	2.1838	1.4602	4.2549	9.1281	6.929	5.712	2.1994	0.8171	1.1035	0.805	0.9148	0.983	0.9035	0.9293	0.9108	1
390350065	2.1974	0.7483	0.5	1.9975	1.3295	3.8802	6.51	6.3056	5.2261	1.9988	0.7483	1.1036	0.8051	0.9166	0.9826	0.9045	0.9301	0.9096	1
390351002	3.8967	0.2267	0.5	1.8229	0.9165	3.628	5.6379	8.5267	2.2233	3.0609	0.2267	1.102	0.8391	0.8161	0.9884	0.7889	0.964	0.7855	1
390490024	1.9197	0.1116	0.5	0.9951	0.8384	2.9417	12.7262	5.5791	3.2109	1.7545	0.1116	1.0729	0.7544	0.9022	0.9786	0.9149	0.8734	0.914	1
390490025	1.7465	0.094	0.5	0.8951	0.7261	2.7977	12.0984	5.0757	3.5117	1.6076	0.094	1.0829	0.7873	0.9203	0.9879	0.927	0.9218	0.9205	1
390570005	2.4716	0.0264	0.5	0.7363	0.5616	2.64	9.4791	5.0037	3.1037	1.8929	0.0264	1.0994	0.8018	0.8215	0.9965	0.7607	0.9484	0.7658	1
390610006	3.7866	0.0306	0.5	0.6528	0.7223	3.5307	8.4538	9.2636	1.7185	3.1688	0.0306	1.2901	0.8038	0.8584	1.0048	0.8375	0.9776	0.8368	1
390610014	3.2336	0.2005	0.5	0.6475	0.7854	3.3004	11.9753	7.4111	2.2085	2.6138	0.2005	1.1079	0.78	0.8393	0.9888	0.8119	0.9632	0.8083	1
390610040	4.1706	0.0297	0.5	0.5972	0.7519	3.7117	6.4699	9.4355	1.5978	3.3972	0.0297	1.3195	0.8108	0.8332	1.0068	0.8131	0.9774	0.8146	1
390610042	2.158	0.1023	0.5	0.5652	0.7673	3.7379	9.7288	6.2819	5.0722	2.0161	0.1023	1.1342	0.8306	0.9376	0.9945	0.9318	0.948	0.9342	1
390610043	4.1148	0.0087	0.5	0.7121	0.7198	3.7833	8.0439	9.619	1.7877	3.4443	0.0087	1.2915	0.8036	0.8535	1.0051	0.8373	0.9776	0.837	1
390617001	5.0502	0.0322	0.5	0.7027	0.891	3.6823	6.7689	11.2264	0	3.9967	0.0322	1.3654	0.8147	0.795	1.0117	0.7932	1	0.7914	1
390618001	3.2585	0.2775	0.5	0.6377	0.9098	3.0088	12.5247	7.8863	0.9748	2.7353	0.2775	1.1823	0.79	0.8445	0.9919	0.8402	0.8987	0.8394	1
390810017	3.875	0.2678	0.5	2.3237	1.6667	3.6322	10.4783	9.113	1.5484	3.1546	0.2678	1.1457	0.87	0.8442	1.0032	0.8212	1.0087	0.8141	1
390811001	4.0041	0.0679	0.5	0.7363	0.7205	2.5834	12.7415	8.1754	0	2.7607	0.0679	1.2054	0.8847	0.6859	1.0013	0.6864	1	0.6895	1
390853002	3.1006	0.3607	0.5	1.9768	0.9454	3.7629	5.863	7.5453	3.59	2.6269	0.3607	1.1445	0.8219	0.8834	0.9927	0.8446	1.0035	0.8472	1
390933002	3.0114	0.0079	0.5	1.8526	0.4995	2.3036	12.046	6.4876	0.4529	2.2697	0.0079	1.0984	0.8223	0.7715	0.9866	0.7571	0.9927	0.7537	1
390950024	1.9767	0.1181	0.5	0.6688	0.8303	3.823	7.6316	5.1087	6.7041	1.8242	0.1181	1.0642	0.8093	0.922	0.977	0.9311	0.908	0.9229	1
390950026	3.2222	0.077	0.5	1.1587	0.6804	4.3357	4.8848	7.8466	5.1674	2.8308	0.077	1.0633	0.7967	0.9062	0.9836	0.8909	0.9347	0.8786	1
390990005	4.0311	0.0378	0.5	1.8981	1.2013	2.9927	6.0147	8.2402	0.7456	2.8582	0.0378	1.1672	0.8157	0.7301	0.9971	0.7145	0.9114	0.709	1
390990014	2.8803	0.1297	0.5	1.6355	1.2684	3.1926	9.9989	6.9743	2.6958	2.3726	0.1297	1.1099	0.8169	0.8555	0.9967	0.8266	0.9378	0.8238	1
391030003	1.9378	0.205	0.5	1.2406	0.7522	3.4103	6.0666	5.6412	4.936	1.8067	0.205	1.1047	0.8309	0.9259	0.9944	0.9314	0.9203	0.9323	1
391130032	1.8263	0.0243	0.5	0.424	0.4823	2.8436	15.0993	4.4522	4.0482	1.6647	0.0243	1.0828	0.7674	0.9062	0.9872	0.8971	0.9225	0.9115	1
391330002	2.6965	0.212	0.5	1.2703	0.9753	3.7618	4.4803	8.0224	3.9187	2.2624	0.212	1.1189	0.8256	0.8732	0.9957	0.8224	0.9644	0.839	1
391351001	3.3062	0.1179	0.5	1.0331	0.8506	3.4013	6.9992	7.6223	2.494	2.6702	0.1179	1.0773	0.8124	0.8364	0.9944	0.8114	0.9311	0.8076	1
391450013	3.0996	0.0503	0.5	1.2348	1.4493	2.9796	9.2797	8.2386	1.1472	2.4852	0.0503	1.1226	0.8899	0.8196	0.9996	0.7955	1.0009	0.8018	1
391530017	4.5419	0.0667	0.5	0.9346	0.7679	3.9924	5.4715	10.0139	1.8345	3.5273	0.0667	1.1191	0.8027	0.8044	0.9915	0.7801	0.9684	0.7766	1
391530023	2.156	0.1797	0.5	0.8401	0.6855	4.2068	4.3168	6.6679	5.8839	2.0712	0.1797	1.1287	0.8093	0.9641	0.9952	0.9516	0.9755	0.9607	1
391550007	2.8551	0.2551	0.5	1.8055	1.3056	3.5258	7.6061	6.9084	4.1257	2.3147	0.2551	1.109	0.8448	0.8668	0.9963	0.8094	0.9723	0.8107	1
400159008	2.6798	0	0.5	1.3345	0.6447	2.4815	11.0229	7.495	0.0163	2.6833	0	1	1	0.9964	1	1	1	1.0013	1
400970186	1.278	0.024	0.5	1.2943	0.6665	2.2222	11.3321	3.9669	2.6836	1.245	0.024	1.0572	0.8706	0.9498	0.9992	0.9786	0.9053	0.9742	1
401010169	1.3895	0.0252	0.5	0.946	0.647	2.4824	11.4937	4.1929	3.3613	1.3442	0.0252	1.0651	0.8561	0.9406	1.0024	0.9699	0.9095	0.9674	1
401091037	2.229	0.0151	0.5	0.7278	0.4337	2.4459	7.3058	4.733	2.8867	1.8644	0.0151	1.0445	0.8	0.8615	0.9883	0.8426	0.8926	0.8364	1
401159004	1.2049	0	0.5	0.8497	0.5238	2.0689	9.7683	3.6356	2.6038	1.1524	0	1.055	0.8543	0.9348	0.9923	0.9582	0.9059	0.9564	1
401359015	1.809	0.0144	0.5	1.0539	0.5877	1.9307	13.519	4.652	0.9504	1.5928	0.0144	1.0233	0.8573	0.8895	0.9917	0.8852	0.9041	0.8805	1
401431127	2.2171	0.0157	0.5	0.98	0.6389	2.1106	11.5301	5.0205	1.3262	1.8043	0.0157	1.0483	0.8676	0.8383	0.9929	0.8197	0.9217	0.8138	1
420010001	2.7981	0.2192	0.5	0.5756	0.5734	3.7664	9.0711	6.8251	4.5709	2.3868	0.2192	1.0673	0.8565	0.8931	0.9884	0.8294	1.0302	0.853	1
420030008	2.3317	0	0.5	2.4332	1.5524	2.5258	13.43	7.2118	1.5448	1.7537	0	1.1681	0.851	0.782	0.9958	0.7293	1.0082	0.7521	1
420030064	1.8808	0	0.5	1.2601	1.5505	2.7262	35.4248	5.1452	2.9759	1.6371	0	1.1251	0.8818	0.925	0.9977	0.8814	1.0208	0.8704	1
420030067	3.6381	0.0463	0.5	1.9122	1.1767	2.8997	6.3292	9.8111	0.2621	2.6315	0.0463	1.1688	0.8466	0.7246	1	0.7157	1.0054	0.7233	1
420031008	2.8991	0.0103	0.5	1.9838	1.4555	2.9083	12.0542	8.4047	1.665	2.0513	0.0103	1.181	0.868	0.7486	1.0002	0.6947	1.0635	0.7076	1

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_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
420031301	2.8509	0	0.5	2.559	1.9601	3.1747	14.4767	7.8439	2.2756	2.2353	0	1.1461	0.8518	0.8195	0.998	0.769	1.0056	0.7841	1
420033007	2.8746	0	0.5	1.7265	0.9814	2.168	13.6915	8.0001	0	1.8817	0	1.1593	0.8855	0.6589	0.9983	0.6581	1	0.6546	1
420070014	2.095	0.1086	0.5	1.4666	1.4146	2.9824	16.0734	6.1857	2.8396	1.9907	0.1086	1.1734	0.8621	0.9566	1.0092	0.9489	0.976	0.9502	1
420110011	2.3333	0.8	0.5	0.8808	1.2708	4.9626	7.5172	6.0014	9.3726	2.3133	0.8	1.057	0.8472	0.9925	0.9891	0.8869	1.107	0.9914	1
420170012	1.8934	0.1668	0.5	0.9916	1.42	3.3016	12.009	5.3638	4.4735	1.68	0.1668	1.0441	0.8211	0.9132	0.9681	0.8737	0.9894	0.8873	1
420270100	2.1265	0.0104	0.5	0.4523	0.736	2.9854	12.5319	5.63	3.1745	1.7436	0.0104	1.1228	0.8724	0.8961	0.9996	0.8332	1.0855	0.8199	1
420290100	2.5539	0.2134	0.5	0.7105	0.9072	3.5273	13.7304	5.8403	4.611	2.137	0.2134	1.0828	0.8448	0.8617	0.988	0.7958	0.9823	0.8368	1
420410101	1.6325	0.1225	0.5	0.5109	0.9399	3.2361	16.2951	4.2156	5.8728	1.5586	0.1225	1.0612	0.8308	0.9649	0.9888	0.8913	1.0381	0.9547	1
420430401	2.04	0.305	0.5	0.7624	1.5506	4.2451	10.9041	4.483	8.8599	2.0141	0.305	1.0502	0.8284	0.9654	0.987	0.8831	1.0339	0.9873	1
420450002	2.9205	0.0652	0.5	1.0203	0.9793	3.2976	11.8077	7.6114	2.526	2.4682	0.0652	1.0666	0.8628	0.8689	0.9701	0.8428	0.9955	0.8451	1
420490003	2.0919	0.1701	0.5	0.979	0.9208	3.4611	9.8169	5.9796	4.3478	1.8477	0.1701	1.1734	0.8492	0.9362	1.0069	0.876	1.0524	0.8832	1
420692006	1.7016	0.0264	0.5	0.7904	1.247	2.3273	12.1238	4.3668	2.3875	1.4149	0.0264	1.0906	0.8435	0.8764	0.9928	0.829	1.0147	0.8315	1
420710007	2.1248	1.1495	0.5	0.6947	0.7666	4.5466	11.3112	5.0919	9.0937	2.1288	1.1495	1.0497	0.8465	0.9964	0.987	0.8806	1.1062	1.0019	1
420910013	3.2775	0.1642	0.5	1.0414	1.1175	3.581	6.5304	7.5033	3.3952	2.5871	0.1642	1.0707	0.8232	0.8414	0.98	0.7816	1.0524	0.7894	1
420950025	1.8507	0.1611	0.5	1.0286	1.8195	3.545	14.128	5.0453	5.7	1.6828	0.1611	1.0539	0.8385	0.9361	0.9769	0.8516	1.0534	0.9092	1
421010004	2.1333	0.227	0.5	1.3543	1.6302	3.6788	13.7846	6.2229	4.6462	1.9189	0.227	1.0338	0.8345	0.9199	0.9647	0.8973	0.9639	0.8995	1
421010047	3.024	0.1222	0.5	0.9862	1.3394	3.6961	11.9288	7.5146	3.0985	2.4986	0.1222	1.0034	0.8829	0.8581	0.9654	0.8255	0.9821	0.8263	1
421250005	2.7389	0.0455	0.5	1.5579	1.317	2.6508	10.784	7.1194	1.4191	1.9962	0.0455	1.1866	0.8551	0.7677	1.003	0.7182	1.005	0.7288	1
421255001	3.3941	0.0256	0.5	0.8283	0.8518	3.3905	9.3186	11.2274	0.8531	2.6907	0.0256	1.1633	0.8558	0.7978	1.0016	0.7782	0.9939	0.7927	1
421290008	1.938	0.0676	0.5	0.8982	1.486	3.1295	11.0676	5.274	3.9941	1.6136	0.0676	1.1662	0.8635	0.8908	1.0064	0.8276	1.0317	0.8326	1
421330008	2.805	0.627	0.5	0.7987	1.0217	5.4498	4.4431	7.4475	9.1619	2.5456	0.627	1.0523	0.86	0.9437	0.99	0.8421	1.0761	0.9075	1
440030002	2.5242	0.0961	0.5	0.7504	0.7204	2.0277	6.9998	5.5748	0.5731	1.9124	0.0961	1.1087	0.8531	0.7833	0.9899	0.763	1.0504	0.7576	1
440070022	2.027	0.2432	0.5	0.5898	1.1807	2.7109	9.7548	5.5139	2.7717	1.7558	0.2432	1.0592	0.838	0.9222	0.9728	0.8779	1.0523	0.8662	1
440070026	2.3189	0.1559	0.5	0.6473	0.9594	2.674	9.9481	6.9428	1.7737	1.9193	0.1559	1.0787	0.8277	0.8637	0.9753	0.8217	1.0442	0.8277	1
440070028	2.2945	0.0596	0.5	0.6528	0.8451	2.4396	8.6884	6.7963	1.115	1.9081	0.0596	1.0821	0.8166	0.8549	0.9767	0.826	1.009	0.8316	1
440071010	2.0691	0.1635	0.5	0.6381	1.1069	2.5714	10.0353	5.5834	2.1653	1.818	0.1635	1.063	0.8296	0.9194	0.9741	0.8852	1.0347	0.8787	1
450250001	2.2591	0.0244	0.5	0.5452	0.4852	2.0782	9.698	6.0935	0.6485	1.751	0.0244	1.0805	0.8533	0.7909	0.9897	0.7587	1.018	0.7751	1
450410002	2.4812	0.0318	0.5	0.7007	0.6008	2.0451	9.3856	5.91	0.3622	1.9686	0.0318	1.0427	0.8542	0.8046	0.9894	0.7955	0.9722	0.7934	1
450450008	1.529	0	0.5	0.2876	0.6123	1.7731	16.998	3.9746	0.9884	1.3082	0	1.0345	0.8158	0.8737	0.969	0.8665	0.9116	0.8556	1
450450009	1.839	0	0.5	0.3461	0.698	2.0093	14.5914	4.7058	0.8737	1.5902	0	1.0344	0.8124	0.8749	0.9679	0.8699	0.917	0.8647	1
450630008	1.8315	0	0.5	0.6142	0.7236	1.7233	16.4766	4.673	0.1736	1.7069	0	1.0366	0.8666	0.9273	0.9915	0.9328	0.9208	0.932	1
450730001	2.3753	0	0.5	0.7247	0.6465	1.9541	9.2334	5.7032	0.4303	1.6958	0	1.0675	0.8529	0.7167	0.9833	0.6913	0.8395	0.7139	1
450790007	2.2019	0.0131	0.5	0.908	0.9799	2.0227	11.4041	5.4974	0.1465	2.0048	0.0131	1.0348	0.7843	0.9058	0.9798	0.9083	0.911	0.9105	1
450790019	2.3048	0	0.5	0.7752	0.8469	2.1024	13.763	5.7682	0.1486	2.1142	0	1.0331	0.8103	0.9229	0.9838	0.9198	0.9244	0.9173	1
450830010	2.3025	0.0072	0.5	0.4606	0.6912	2.0301	11.6685	5.664	0.5144	1.734	0.0072	1.0594	0.845	0.7659	0.9844	0.7359	0.9738	0.7531	1
460110002	1.516	0	0.5	1.2303	0.4923	1.6574	8.6804	3.2384	1.6103	1.2108	0	1.0451	0.8235	0.8175	0.9898	0.8138	0.8224	0.7987	1
460130003	1.3339	0.01	0.5	0.7391	0.3473	1.8241	6.036	3.2319	2.3525	1.3366	0.01	1	1	1.0012	1	1	1	1.0021	1
460290002	1.7742	0	0.5	0.6629	0.3449	2.8509	7.4938	3.3661	5.5881	1.5555	0	1.0372	0.8132	0.8957	0.9779	0.9078	0.8834	0.8768	1
460990006	2.0608	0.0072	0.5	0.7253	0.4229	3.7235	4.362	3.5717	8.3281	1.8619	0.0072	1.0383	0.8088	0.9112	0.9687	0.9478	0.8898	0.9035	1
470090011	2.6434	0	0.5	1.0783	0.8328	2.3546	10.8364	8.5587	0.1858	1.9708	0	1.0424	0.8616	0.7427	0.9918	0.7301	0.9608	0.7456	1
470370023	2.082	0.0496	0.5	1.1201	1.1408	2.2635	11.3616	5.8234	1.2419	1.7425	0.0496	1.0952	0.7871	0.8515	0.9863	0.8247	0.9397	0.8369	1
470370036	2.2976	0.026	0.5	0.886	0.8121	2.7789	8.6522	6.9038	1.7664	2.0028	0.026	1.1033	0.8069	0.8802	0.9901	0.8505	0.9395	0.8717	1
470450004	3.0652	0.0069	0.5	1.2044	0.7633	2.8279	8.1329	7.7785	1.0395	2.4983	0.0069	1.0559	0.8341	0.8269	0.9893	0.8136	0.8983	0.815	1
470650031	1.5616	0.0275	0.5	0.7101	1.2081	1.3507	16.9079	3.4526	0.3036	1.2277	0.0275	1.034	0.7949	0.7906	0.9787	0.7863	0.874	0.7862	1
470651011	2.5056	0.0281	0.5	0.8595	1.161	2.1345	9.4556	5.7749	0.6838	1.8434	0.0281	1.0529	0.8011	0.7602	0.9811	0.7364	0.9736	0.7357	1
470654002	1.4484	0.0568	0.5	0.8786	1.6071	1.6861	15.8122	3.5745	1.2165	1.1408	0.0568	1.0312	0.797	0.8246	0.9785	0.7966	0.9114	0.7876	1
470931020	1.7827	0	0.5	1.46	1.5111	2.0109	14.3544	5.31	1.5099	1.3424	0	1.075	0.789	0.7998	0.9876	0.7419	1.0363	0.753	1
470990002	3.1726	0.0082	0.5	0.67	0.4037	2.3477	9.0176	8.4109	0	2.139	0.0082	1.076	0.8372	0.6756	0.9879	0.6766	1	0.6742	1
471050108	2.5843	0	0.5	1.0016	0.629	2.0054	11.9759	7.4573	0	1.728	0	1.0834	0.8347	0.6647	0.9927	0.667	1	0.6687	1
471071002	3.0305	0.0103	0.5	1.0147	0.8462	2.1926	10.4299	7.0063	0.2481	2.0232	0.0103	1.0718	0.8114	0.671	0.9846	0.6598	0.9264	0.6676	1
471130006	2.3542	0	0.5	0.5958	0.4624	1.6089	14.6492	5.6851	0	1.4988	0	1.0522	0.8167	0.6352	0.9891	0.6338	1	0.6367	1
471192007	2.5763	0.0163	0.5	0.608	0.6582	2.724	7.9091	7.092	1.4164	2.168	0.0163	1.0951	0.8398	0.8411	0.9951	0.817	0.8849	0.8415	1
471251009	3.3155	0.0075	0.5	1.2159	0.8549	2.7211	8.941	8.62	0.5009	2.4535	0.0075	1.081	0.8043	0.7518	0.9899	0.7367	0.9738	0.74	1
471450004	2.5583	0	0.5	1.1157	0.8396	1.8617	10.1019	6.2505	0.2132	1.6533	0	1.0862	0.8053	0.656	0.9834	0.644	0.9602	0.6462	1
471570014	2.6264	0.0143	0.5	0.9781	1.3366	2.0778	9.2596	5.558	0.5	1.9445	0.0143	1.0648	0.8519	0.7629	0.984	0.7438	0.9202	0.7404	1
471570047	2.6157	0.0171	0.5	0.8813	1.3249	3.1203	6.9729	7.4266	1.9306	2.2781	0.0171	1.0353	0.8343	0.8742	0.9779	0.866	0.857	0.8709	1
471631007	4.4188	0.021	0.5	0.7218	0.5906	3.2007	7.2393	9.6273	0	3.4744	0.021	1.0171	0.9014	0.7856	0.9937	0.7866	1	0.7863	1

MATS 2.3.1 - Ouput File - 24-hr PM-2.5
2014 Business As Usual Scenario

Year																				
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt	
471650007	2.7597	0.0181	0.5	0.7889	0.5269	2.9166	9.2692	7.2765	1.5817	2.2545	0.0181	1.1131	0.8064	0.8349	0.9946	0.809	0.9103	0.8169	1	
500030004	1.8416	0	0.5	0.6105	0.5909	1.6111	10.8681	4.8685	0.2559	1.5247	0	1.0885	0.9033	0.8277	1.0023	0.808	0.9758	0.8279	1	
500070012	2.5252	0.0256	0.5	0.5106	0.6474	2.7221	9.0365	5.513	2.6601	2.0448	0.0256	1.0326	0.9661	0.8475	0.9957	0.7968	0.9933	0.8098	1	
500210002	1.0582	0.0277	0.5	0.3974	0.4541	1.3653	19.4266	2.9228	1.3674	0.9433	0.0277	1.0522	0.9305	0.9134	0.9934	0.8843	0.9891	0.8914	1	
510130020	2.7298	0.0385	0.5	1.2962	1.7326	2.9612	8.1032	6.5048	2.2717	2.1488	0.0385	1.0632	0.7801	0.8445	0.9752	0.7972	1.0343	0.7872	1	
510360002	3.647	0.0374	0.5	0.7091	0.7656	2.8566	8.3561	7.8944	0.399	2.8449	0.0374	1.0691	0.8549	0.7892	0.9872	0.784	0.9445	0.7801	1	
510410003	3.5099	0.0173	0.5	0.7025	0.5649	2.5927	7.4415	8.3346	0	2.6013	0.0173	1.0702	0.8533	0.7328	0.985	0.7278	1	0.7411	1	
510590030	3.6188	0	0.5	1.4522	1.5365	3.0286	7.3695	7.9016	1.2122	2.7109	0	1.0755	0.7987	0.7838	0.9835	0.7564	1.0658	0.7491	1	
510595001	2.3898	0.1267	0.5	1.0963	1.4799	2.7802	9.2873	5.8098	2.5786	1.8902	0.1267	1.0741	0.7862	0.8484	0.9862	0.7912	1.0606	0.791	1	
510870014	4.0374	0.0282	0.5	0.8089	0.6254	2.8438	7.7526	8.4135	0	3.0786	0.0282	1.0611	0.8519	0.7631	0.9842	0.7602	1	0.7625	1	
510870015	3.4052	0.0163	0.5	0.685	0.5257	2.4653	6.7203	7.9786	0	2.4576	0.0163	1.0623	0.8186	0.7176	0.9852	0.7101	1	0.7217	1	
511071005	2.434	0.0799	0.5	0.8326	0.794	2.6091	7.4127	7.5454	1.7859	1.7164	0.0799	1.0962	0.8733	0.7461	0.9916	0.6817	1.1238	0.7052	1	
511390004	3.4597	0.0265	0.5	0.5415	0.3248	2.5528	8.7408	6.8074	0	2.4249	0.0265	1.0845	0.8902	0.7023	0.9907	0.703	1	0.7009	1	
515200006	3.0716	0.0101	0.5	0.5393	1.0665	2.4181	9.2436	6.1351	0.744	2.1965	0.0101	1.039	0.8898	0.7385	0.9915	0.7191	0.9669	0.7151	1	
516500004	3.5555	0.0456	0.5	0.81	0.8347	2.8048	8.5388	7.7077	0.3967	2.786	0.0456	1.0617	0.8819	0.7912	0.9858	0.7855	0.9075	0.7836	1	
516800015	3.0962	0	0.5	0.5411	0.6094	2.0971	8.5764	7.2565	0	2.0198	0	1.0971	0.8237	0.6486	0.9874	0.6507	1	0.6523	1	
517100024	2.9076	0.0742	0.5	0.7347	1.2731	3.4068	13.2256	7.6649	1.9513	2.5384	0.0742	1.0966	0.88	0.8921	0.9867	0.881	0.9577	0.873	1	
517700014	2.0108	0.0649	0.5	0.5487	0.9672	2.0724	13.3655	5.4525	1.1935	1.5522	0.0649	1.0561	0.8645	0.8083	0.9837	0.7635	1.0278	0.7719	1	
518100008	3.3872	0.05	0.5	0.807	0.9907	3.2403	10.9692	7.9516	1.2818	2.7412	0.05	1.0804	0.8711	0.8375	0.9867	0.8179	0.9733	0.8093	1	
540030003	1.9294	0.1754	0.5	0.4644	0.6827	3.313	11.3797	5.1427	4.9159	1.6511	0.1754	1.059	0.8649	0.9214	0.988	0.8298	1.0643	0.8557	1	
540090005	3.3624	0.2488	0.5	1.7658	1.5069	3.5786	10.3834	8.4247	2.4326	2.7439	0.2488	1.1407	0.8741	0.8565	1.0006	0.8199	1.0105	0.8161	1	
540090011	3.201	0.3857	0.5	2.6977	2.2183	4.6499	10.7601	9.4107	4.4817	2.9704	0.3857	1.1282	0.8715	0.9569	1	0.9385	1.0105	0.928	1	
540110006	3.0839	0.0312	0.5	1.1514	1.477	2.4816	11.9084	7.5583	0.2422	2.3845	0.0312	1.1313	0.8804	0.7679	1.002	0.7524	0.9472	0.7732	1	
540291004	4.5509	0.1281	0.5	1.6488	1.1805	3.7714	8.8689	10.5592	1.1746	3.4913	0.1281	1.1451	0.8663	0.7897	1.0035	0.7688	0.9907	0.7672	1	
540330003	3.6722	0.0079	0.5	0.9533	0.7664	2.9133	7.0455	8.9014	0.784	2.5744	0.0079	1.2355	0.8953	0.725	1.0071	0.7003	1.0787	0.7011	1	
540390010	3.6875	0.033	0.5	0.7233	1.023	2.7468	9.7609	9.8103	0	2.5202	0.033	1.0747	0.8726	0.6828	0.992	0.6837	1	0.6835	1	
540391005	3.6349	0.069	0.5	1.3144	1.2913	2.6439	12.0242	8.6763	0	2.6621	0.069	1.0716	0.8691	0.7295	0.9933	0.7265	1	0.7324	1	
540490006	3.44	0.0072	0.5	1.1463	0.7761	2.7167	7.8236	8.2689	0.7112	2.4133	0.0072	1.2623	0.8939	0.7207	1.0104	0.6977	0.9978	0.7015	1	
540511002	2.8997	0.0303	0.5	0.7842	1.0557	3.0162	11.2777	8.307	1.2235	2.4882	0.0303	1.2208	0.879	0.8762	1.0121	0.8527	1.008	0.8581	1	
540610003	3.5504	0.0199	0.5	1.2465	0.8511	2.5893	7.7475	8.0382	0.6757	2.2118	0.0199	1.2714	0.8803	0.6413	1.0077	0.6154	0.9602	0.623	1	
540690010	3.3274	0.0942	0.5	1.2894	1.1846	3.4417	6.5176	9.1301	1.6385	2.8357	0.0942	1.1802	0.8767	0.8739	1.0063	0.8536	0.9892	0.8522	1	
540810002	2.9858	0.0366	0.5	0.5815	0.7361	2.2751	6.9563	8.3136	0	2.0083	0.0366	1.0833	0.8666	0.6729	0.9934	0.6726	1	0.6726	1	
541071002	3.4568	0	0.5	1.1706	0.8022	2.9864	8.3777	9.6649	0.9596	2.4149	0	1.1652	0.8899	0.7191	1.0027	0.6895	1.0412	0.6986	1	
550030010	1.892	0.0122	0.5	0.574	0.3735	2.8252	3.0006	4.0794	4.5901	1.69	0.0122	1.0591	0.8639	0.9121	0.9889	0.8732	0.9551	0.8932	1	
550090005	1.7667	0.0927	0.5	0.2401	0.3832	3.2152	16.7934	3.8284	6.4478	1.6134	0.0927	1.0455	0.8679	0.914	0.9893	0.9482	0.8935	0.9132	1	
550250047	2.1217	0.2154	0.5	1.0354	0.6712	3.8438	10.9789	4.4657	7.8578	1.9206	0.2154	1.0601	0.8345	0.9066	0.987	0.9189	0.8972	0.9052	1	
550270007	2.1217	0.0973	0.5	0.3201	0.3851	3.9916	5.4181	4.1462	8.6109	1.9636	0.0973	1.0708	0.857	0.9292	0.9886	0.9404	0.9179	0.9255	1	
550410007	1.5202	0.033	0.5	0.4604	0.3577	2.4436	6.6712	3.6183	3.9286	1.3852	0.033	1.0744	0.8877	0.9125	0.9937	0.9133	0.9147	0.9112	1	
550430009	2.2588	0.2053	0.5	0.6567	0.5778	4.1867	10.1922	4.3308	9.006	2.0528	0.2053	1.0589	0.8381	0.9128	0.9805	0.9402	0.8993	0.9088	1	
550590019	2.3581	0.0596	0.5	0.3578	0.517	4.515	5.938	5.2531	8.9783	2.2187	0.0596	1.0731	0.8219	0.9377	0.9813	0.921	0.9512	0.9409	1	
550630012	1.6168	0.0215	0.5	0.4083	0.429	2.8985	14.5592	2.5953	6.7192	1.4517	0.0215	1.0428	0.8319	0.8997	0.975	0.9241	0.8926	0.8979	1	
550710007	1.4638	0.0359	0.5	0.5323	0.2941	2.3787	13.8092	3.1022	4.4654	1.3099	0.0359	1.0654	0.8466	0.9031	0.9906	0.8978	0.913	0.8948	1	
550790010	2.7181	0.0353	0.5	0.7575	0.6734	5.5706	7.226	6.22	11.2518	2.6419	0.0353	1.0729	0.9084	0.9681	0.9889	0.9735	0.9659	0.9719	1	
550790026	2.5556	0.1063	0.5	0.7925	0.7973	4.9522	9.5702	5.378	10.165	2.3478	0.1063	1.0877	0.8674	0.9242	0.9905	0.9266	0.9235	0.9187	1	
550790043	2.5025	0.0982	0.5	0.7673	0.7834	4.9482	9.53	5.4266	10.1069	2.3483	0.0982	1.072	0.8938	0.9356	0.9888	0.9424	0.9339	0.9384	1	
550790059	2.9549	0.0852	0.5	1.1265	0.8533	4.1882	7.7845	6.8276	5.8797	2.6149	0.0852	1.067	0.8757	0.899	0.9876	0.8844	0.9185	0.8849	1	
550790099	2.691	0.0345	0.5	0.7497	0.6464	5.4884	6.7613	6.1228	11.0713	2.5953	0.0345	1.0865	0.8922	0.9641	0.9898	0.9698	0.9608	0.9644	1	
550870009	1.7226	0.0319	0.5	0.2322	0.2881	3.1567	15.1655	3.3351	6.9177	1.611	0.0319	1.0399	0.9032	0.9424	0.9925	0.9863	0.915	0.9352	1	
550890009	2.3599	0.1873	0.5	1.0193	0.7935	4.2869	5.3262	4.9553	8.6839	2.1083	0.1873	1.0676	0.8386	0.8953	0.9881	0.8996	0.8912	0.8934	1	
551091002	1.972	0.0975	0.5	0.4044	0.4928	3.3536	5.1846	3.4872	7.1718	1.8116	0.0975	1.0341	0.838	0.916	0.9735	0.9294	0.9103	0.9187	1	
551110007	2.3041	0.1075	0.5	0.8697	0.5514	3.6413	5.944	5.4301	5.7655	2.1945	0.1075	1.0768	0.8429	0.9372	0.9906	0.9593	0.9131	0.9524	1	
551198001	2.5296	0.0162	0.5	1.0959	0.4851	2.6514	12.1068	6.667	1.0829	2.2118	0.0162	1.0831	0.8436	0.8772	0.9929	0.8705	0.8854	0.8744	1	
551250001	2.5155	0.0266	0.5	0.9277	0.5933	3.6318	8.579	6.0499	4.8685	2.2621	0.0266	1.0629	0.9242	0.906	0.9891	0.8959	0.9227	0.8992	1	
551330027	1.8843	0.1487	0.5	2.0764	0.8425	3.329	9.1825	4.1661	6.5722	1.6989	0.1487	1.0694	0.8533	0.9047	0.9886	0.88	0.9257	0.9016	1	

ALPINE GEOPHYSICS

ENVIRON

Table C-2. MATS 2.3.1 Output Files; 2018 24-hr PM2.5 Business As Usual Runs

MATS 2.3.1 - Ouput File - 24-hr PM-2.5
2018 Business As Usual Scenario

Year																
_id	_type	_state_name	_county_name	monitor_lat	monitor_long	monitor_gridcell	b_pm25_d_DV	f_pm25_d_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
10331002	FRM	Alabama	Colbert	34.760556	-87.650556	81002	28.3	23	0.5	0.6967	0.7558	3.0635	9.5699	9.0149	0.7939
10890014	FRM	Alabama	Madison	34.68767	-86.58637	89002	29.1	22.3	0.5	0.8155	0.6462	3.5195	8.8099	9.518	0.728
11030011	FRM	Alabama	Morgan	34.518735	-86.976939	88001	29	29	0.5	0.5136	0.6277	3.6237	7.0763	13.6675	0
50350005	FRM	Arkansas	Crittenden	35.197288	-90.193141	62004	30.6	23.2	0.5	0.8395	1.4344	3.1637	10.103	9.1506	0.2312
50450002	FRM	Arkansas	Faulkner	35.087842	-92.39375	45002	25	22.7	0.5	2.3786	1.1408	1.9262	11.2192	5.5364	0.112
50670001	FRM	Arkansas	Jackson	35.638169	-91.189506	54008	27.1	23.5	0.5	1.0455	1.1545	2.9234	9.9249	7.3932	1.2375
51150003	FRM	Arkansas	Pope	35.292222	-93.139167	40004	25.8	23.5	0.5	1.1296	0.8412	1.7544	13.9153	4.2779	0.6249
51190007	FRM	Arkansas	Pulaski	34.756189	-92.281296	47001	26.8	26.8	0.5	2.0062	0.9185	2.0784	13.0168	6.1604	0.0251
51310008	FRM	Arkansas	Sebastian	35.389672	-94.424288	30004	24.5	22.9	0.5	0.8712	0.6789	2.3183	11.3449	5.2996	1.476
51450001	FRM	Arkansas	White	35.24894	-91.715596	50004	26.5	23	0.5	0.66	0.5712	2.206	12.792	6.2636	0
90010010	FRM	Connecticut	Fairfield	41.170833	-73.194722	174079	33	29.7	0.5	0.8933	2.0167	3.2672	14.2403	7.3916	1.8845
90011123	FRM	Connecticut	Fairfield	41.399167	-73.443056	172080	30.5	28.7	0.5	0.7251	1.6864	2.8258	14.6166	5.2764	3.0457
90013005	FRM	Connecticut	Fairfield	41.1125	-73.407222	173078	31.3	28.7	0.5	0.8768	2.1606	3.6539	10.2495	6.1063	4.8581
90019003	FRM	Connecticut	Fairfield	41.118333	-73.336667	173078	30.3	27.5	0.5	0.9118	2.3801	3.927	7.5928	6.5692	5.2643
90031003	FRM	Connecticut	Hartford	41.784722	-72.631667	176085	28.3	26.1	0.5	0.603	1.2927	2.1928	15.2107	4.8406	1.5038
90050005	FRM	Connecticut	Litchfield	41.821389	-73.297222	172084	26.1	21.7	0.5	1.28	0.768	3.7888	4.8384	10.9056	0
90090026	FRM	Connecticut	New Haven	41.291111	-72.894167	176080	32.4	29.5	0.5	0.8285	2.1985	3.6339	11.9461	7.9273	2.6145
90090027	FRM	Connecticut	New Haven	41.301111	-72.902778	175080	32.9	30.2	0.5	0.7093	2.2274	3.2349	14.3035	6.0343	3.5897
90091123	FRM	Connecticut	New Haven	41.310833	-72.916944	175081	33.5	30.5	0.5	0.825	2.1531	3.555	13.5441	7.4472	2.8757
90092008	FRM	Connecticut	New Haven	41.331389	-72.919722	175081	29.2	27.1	0.5	0.8238	2.4443	3.3804	9.8503	5.6978	4.3743
90092123	FRM	Connecticut	New Haven	41.550556	-73.043611	174082	32.2	29	0.5	0.751	1.5119	3.2488	13.7974	6.9291	2.666
90113002	FRM	Connecticut	New London	41.524167	-72.076667	180084	27.3	25.1	0.5	0.6413	1.5885	2.8501	10.6702	5.7847	2.7106
100010002	FRM	Delaware	Kent	38.984722	-75.555556	163055	29.7	24	0.5	0.4543	0.7121	3.6792	7.8029	8.6383	2.6628
100010003	FRM	Delaware	Kent	39.155	-75.518056	163057	29.6	24.6	0.5	0.4404	0.6627	3.9187	7.4159	9.2318	2.7869
100031007	FRM	Delaware	New Castle	39.551111	-75.730833	160060	28.8	25	0.5	1.0996	1.2639	4.2916	5.0427	8.9146	3.857
100031012	FRM	Delaware	New Castle	39.691944	-75.761667	160061	30	26.4	0.5	1.2969	1.4733	3.9112	7.0215	5.8669	5.9221
100032004	FRM	Delaware	New Castle	39.739444	-75.558056	161062	35.7	32.3	0.5	1.8911	1.8673	4.7005	9.4241	9.3003	4.1248
100051002	FRM	Delaware	Sussex	38.644444	-75.613056	163052	30.9	26.8	0.5	0.5934	0.9555	3.6337	10.2359	9.1645	2.361
110010041	FRM	District Of Columbia	District of Columbia	38.897222	-76.952778	153052	32.3	27.3	0.5	0.9772	2.0653	3.8323	9.2137	6.9394	4.3934
110010042	FRM	District Of Columbia	District of Columbia	38.880833	-77.0325	153052	31	25.8	0.5	1.286	2.2719	3.4784	9.7476	8.3051	1.9338
110010043	FRM	District Of Columbia	District of Columbia	38.918889	-77.0125	153052	31.5	26.2	0.5	0.8915	1.8975	4.0085	7.4139	6.9113	5.0165
131390003	FRM	Georgia	Hall	34.300342	-83.8139	111001	29.2	29.2	0.5	0.8333	0.8333	3.7928	5.8616	14.223	0
170190004	FRM	Illinois	Champaign	40.123796	-88.229531	72051	28.6	25.9	0.5	0.5257	0.747	5.2567	1.7983	5.3397	11.3987
170191001	FRM	Illinois	Champaign	40.052242	-88.372549	71050	27.4	23.9	0.5	0.9117	0.7973	4.0398	5.84	7.5103	4.7112
170310022	FRM	Illinois	Cook	41.687165	-87.539315	76065	31.3	29.1	0.5	0.9167	1.6104	4.0935	9.0875	5.4809	7.062
170310050	FRM	Illinois	Cook	41.70757	-87.568574	75066	29.1	25.7	0.5	0.8418	1.1888	3.7108	8.7313	6.4636	4.4879
170310052	FRM	Illinois	Cook	41.965485	-87.749928	74068	32.9	29.9	0.5	0.7918	1.0193	4.4098	9.7038	5.9564	7.5479
170310057	FRM	Illinois	Cook	41.912862	-87.722723	74067	31.3	28	0.5	0.7599	0.9549	4.5021	6.4059	7.3848	7.4124
170310076	FRM	Illinois	Cook	41.7514	-87.713488	74066	31.9	26.9	0.5	0.8471	1.1849	3.9965	11.0346	8.9258	2.2499
170311016	FRM	Illinois	Cook	41.801167	-87.831945	73066	34.5	30.3	0.5	0.8086	1.0416	3.6738	14.5866	8.5809	2.1363
170312001	FRM	Illinois	Cook	41.662109	-87.696467	74065	30.9	27.4	0.5	0.7882	1.0157	3.8766	10.4413	8.4314	2.667
170313103	FRM	Illinois	Cook	41.965193	-87.876265	73068	32.6	29.3	0.5	0.7794	0.9721	3.9682	10.9575	8.5985	3.5738
170313301	FRM	Illinois	Cook	41.782766	-87.805377	74066	31.1	26.7	0.5	0.7295	1.0495	3.5459	12.0881	6.0865	4.3557
170314007	FRM	Illinois	Cook	42.060285	-87.863225	73069	28.8	27.2	0.5	0.574	1.0439	4.1252	7.14	8.8369	3.0639
170314201	FRM	Illinois	Cook	42.139996	-87.799227	73069	29.6	27.5	0.5	0.4498	1.0856	4.2191	7.0593	9.376	2.7261
170434002	FRM	Illinois	DuPage	41.771071	-88.152534	71066	32	28	0.5	0.5594	0.8787	4.1007	10.3694	7.5122	4.7901
170650002	FRM	Illinois	Hamilton	38.082155	-88.624943	71032	27.1	21.5	0.5	1.1749	0.8744	3.5278	6.0645	9.1168	1.3095
170831001	FRM	Illinois	Jersey	39.110539	-90.32408	58040	26.8	23.1	0.5	1.0517	0.7385	3.286	8.8331	8.1894	1.2672
170890003	FRM	Illinois	Kane	42.050403	-88.280015	70068	32.8	27.3	0.5	0.84	1.0693	4.5349	8.3425	11.0559	2.3678
170890007	FRM	Illinois	Kane	41.784717	-88.329374	70066	29	26.7	0.5	0.5035	0.7757	4.021	8.4732	4.9193	7.5489
170971007	FRM	Illinois	Lake	42.467573	-87.810047	73072	27	23.7	0.5	0.3004	0.5774	4.0239	6.2411	5.0091	7.5587
170990007	FRM	Illinois	La Salle	41.293015	-89.049425	66061	26.4	22.7	0.5	0.9024	1.1029	3.6848	6.016	4.9632	6.3419
171110001	FRM	Illinois	McHenry	42.221442	-88.242207	70070	27.7	25.1	0.5	0.5636	0.8338	4.3122	5.358	7.3123	5.7378
171132003	FRM	Illinois	McLean	40.518735	-88.996896	67054	27	25	0.5	0.4245	0.6633	4.9087	2.5207	5.3597	10.2153
171150013	FRM	Illinois	Macon	39.866834	-88.925594	68048	29.4	24.5	0.5	1.0072	0.8196	3.5067	9.1648	7.3634	3.0397
171191007	FRM	Illinois	Madison	38.704534	-90.139675	60036	36.1	31.5	0.5	1.1785	0.6484	3.549	15.5337	10.4838	0.2353
171192009	FRM	Illinois	Madison	38.903085	-90.143168	60038	30.8	26.7	0.5	1.0622	0.799	3.5877	10.9016	9.5109	1.1653

MATS 2.3.1 - Ouput File - 24-hr PM-2.5
2018 Business As Usual Scenario

Year																
_id	_type	_state_name	_county_name	monitor_lat	monitor_long	monitor_gridcell	b_pm25_d_DV	f_pm25_d_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
171193007	FRM	Illinois	Madison	38.860669	-90.105851	60038	29.4	26.7	0.5	0.8216	0.7349	3.911	9.2161	7.6367	3.8253
171430037	FRM	Illinois	Peoria	40.697007	-89.584737	62055	29.7	25.6	0.5	0.4849	0.6949	4.439	5.4307	5.0726	8.8952
171570001	FRM	Illinois	Randolph	38.176278	-89.788459	63032	26.1	22.5	0.5	0.5402	0.598	3.3059	7.5614	5.4535	4.5799
171613002	FRM	Illinois	Rock Island	41.514727	-90.51735	55062	25.8	21.3	0.5	0.7095	0.5996	3.7896	6.061	7.8362	3.1916
171630010	FRM	Illinois	Saint Clair	38.612034	-90.160477	60036	29.1	26.1	0.5	0.6895	0.5703	3.4118	10.3994	6.3739	4.0399
171634001	FRM	Illinois	Saint Clair	38.529631	-89.99285	61035	29.3	25.8	0.5	0.9552	0.5815	3.2762	10.8071	7.5324	2.4739
171670012	FRM	Illinois	Sangamon	39.831921	-89.644164	62047	28.9	25.5	0.5	0.7527	0.6481	4.7355	4.6674	7.9936	6.5083
171971002	FRM	Illinois	Will	41.526885	-88.116474	72064	32	28.9	0.5	0.8099	1.1015	4.4974	8.7314	7.5122	5.9515
171971011	FRM	Illinois	Will	41.221537	-88.190967	71061	25.6	23.2	0.5	0.7611	1.3443	3.7564	5.0051	5.0464	6.4483
172010013	FRM	Illinois	Winnebago	42.263081	-89.092767	64070	28.8	25.8	0.5	0.5762	0.6311	4.0043	7.4786	6.5835	5.8434
180030004	FRM	Indiana	Allen	41.094722	-85.101944	93062	30.2	28.6	0.5	0.3564	0.6237	4.455	8.613	6.2964	7.1874
180190006	FRM	Indiana	Clark	38.277675	-85.740153	92036	35.3	30.3	0.5	0.6687	1.0352	4.5751	9.9387	7.3385	6.4091
180350006	FRM	Indiana	Delaware	40.201141	-85.387999	92054	28	23.5	0.5	0.7271	0.5238	3.8559	6.5291	9.4787	2.1833
180370005	FRM	Indiana	Dubois	38.404778	-86.928322	83036	31.1	25.6	0.5	0.3565	0.7298	4.7778	5.8105	9.8263	4.1492
180431004	FRM	Indiana	Floyd	38.308056	-85.834167	91036	30.1	25.5	0.5	1.0179	1.0802	3.7521	8.5502	8.5484	2.6057
180670003	FRM	Indiana	Howard	40.485479	-86.132879	86056	29.7	25.1	0.5	0.935	0.936	4.532	4.826	8.206	5.372
180830004	FRM	Indiana	Knox	38.740882	-87.484733	79038	30.2	24	0.5	0.5063	0.6172	3.8293	9.2983	10.1969	0.8251
180890006	FRM	Indiana	Lake	41.636127	-87.440843	76065	31	28.2	0.5	1.1926	2.1799	3.9351	8.2728	7.8333	4.0672
180890022	FRM	Indiana	Lake	41.606667	-87.304722	77065	30.8	29	0.5	1.6398	3.31	3.0974	9.1404	5.1016	4.0691
180890026	FRM	Indiana	Lake	41.573239	-87.405905	77064	32.6	29.2	0.5	1.0162	2.0209	3.4721	11.5444	8.8369	1.8745
180890027	FRM	Indiana	Lake	41.546593	-87.426481	76064	28.8	25.4	0.5	1.0058	1.7964	3.5687	7.5356	8.8818	2.1728
180890031	FRM	Indiana	Lake	41.598505	-87.342991	77065	30.9	28.5	0.5	1.1678	2.3909	4.1286	6.5587	11.5983	0
180892004	FRM	Indiana	Lake	41.585496	-87.474486	76065	29.8	27.3	0.5	0.9947	1.3056	3.72	8.1997	9.404	2.3392
180892010	FRM	Indiana	Lake	41.678349	-87.508345	76065	30.4	27.9	0.5	0.8681	1.4967	3.5022	9.0698	10.9257	0
180910011	FRM	Indiana	LaPorte	41.707212	-86.891216	80066	29.1	25.5	0.5	0.9003	2.3069	3.4604	7.1177	10.4656	0
180950009	FRM	Indiana	Madison	40.111975	-85.679952	90052	29.2	25.5	0.5	0.7739	0.6138	4.5768	4.7952	8.5456	5.418
180970043	FRM	Indiana	Marion	39.744957	-86.166496	87049	35.3	31.2	0.5	0.6536	1.0907	4.658	10.0181	7.686	6.4333
180970066	FRM	Indiana	Marion	39.760437	-86.108848	87049	34.4	29.4	0.5	0.7175	1.1846	4.6501	8.8256	12.0008	2.0393
180970078	FRM	Indiana	Marion	39.811097	-86.114469	87049	32.7	29.1	0.5	0.7249	1.1768	4.7497	7.4413	9.1593	4.9878
180970081	FRM	Indiana	Marion	39.788903	-86.214628	87049	34.1	28.9	0.5	0.8154	1.0922	4.483	8.949	9.5794	3.6096
180970083	FRM	Indiana	Marion	39.774944	-86.122053	87049	33.2	28.2	0.5	0.8274	1.0956	4.5173	8.161	9.7437	3.5215
181270024	FRM	Indiana	Porter	41.6175	-87.199167	78065	29.2	27.3	0.5	1.3616	2.5161	3.4535	7.4713	7.3257	2.5276
181410014	FRM	Indiana	St. Joseph	41.66346	-86.207826	85066	28.7	26.5	0.5	0.5839	0.7277	3.6089	9.7021	6.9143	3.8485
181470009	FRM	Indiana	Spencer	38.167523	-86.983214	83034	27.3	24	0.5	0.5081	0.6564	4.6791	3.5218	8.9638	4.7916
181570008	FRM	Indiana	Tippecanoe	40.431639	-86.8525	82054	28.9	25.7	0.5	0.8811	1.1119	4.1414	6.7334	7.3867	5.0657
181630006	FRM	Indiana	Vanderburgh	37.971727	-87.567236	79031	30.4	26.8	0.5	0.9589	0.7038	3.0644	13.3524	7.98	1.0324
181630016	FRM	Indiana	Vanderburgh	37.974436	-87.532289	79031	29.1	26.6	0.5	0.8775	0.7217	3.5623	10.0665	7.5692	3.196
181670018	FRM	Indiana	Vigo	39.486111	-87.401389	79045	29.4	24.7	0.5	0.6484	0.696	4.2175	6.3202	7.3675	5.3659
181670023	FRM	Indiana	Vigo	39.456238	-87.370553	79045	29.5	25.3	0.5	0.5369	0.8695	4.5596	4.9979	6.9246	7.0066
190130008	FRM	Iowa	Black Hawk	42.493056	-92.343889	42070	27.9	24.6	0.5	0.6661	0.6737	3.6663	8.8666	4.814	6.5076
190450021	FRM	Iowa	Clinton	41.874999	-90.177574	57066	28.3	25.4	0.5	0.4624	0.5168	4.3792	5.6304	4.5424	9.3568
191032001	FRM	Iowa	Johnson	41.657232	-91.503478	48063	29.4	25.7	0.5	0.6922	0.6026	3.4018	11.1054	6.2829	3.6848
191130037	FRM	Iowa	Linn	42.008333	-91.678611	47066	25.2	22.2	0.5	0.2908	0.3393	4.362	2.7868	3.9258	10.1538
191370002	FRM	Iowa	Montgomery	40.969112	-95.044951	24056	23	20.2	0.5	0.9291	0.6023	3.2479	5.7437	4.6894	5.2732
191390015	FRM	Iowa	Muscatine	41.400948	-91.067814	52061	35.1	32.4	0.5	0.5185	0.6222	5.3924	7.9503	5.3924	11.8218
191471002	FRM	Iowa	Palo Alto	43.123704	-94.693518	26076	23.6	20	0.5	0.8476	0.5171	2.6214	8.9042	4.7347	3.1486
191530030	FRM	Iowa	Polk	41.603183	-93.6433	34062	25.2	22.4	0.5	0.8944	0.5405	2.5828	10.8658	5.7219	1.9545
191532510	FRM	Iowa	Polk	41.603517	-93.7479	33062	23.4	20.6	0.5	0.7832	0.5173	3.143	6.771	4.5796	4.9866
191550009	FRM	Iowa	Pottawattamie	41.264171	-95.896124	18058	25.4	24	0.5	1.7125	0.7818	1.8252	13.6169	4.6945	0.4542
191630015	FRM	Iowa	Scott	41.530011	-90.587611	55062	28.1	26	0.5	0.498	0.6087	4.8693	3.7073	5.0907	10.3197
191630018	FRM	Iowa	Scott	41.550005	-90.600115	55062	28.8	25.8	0.5	0.4938	0.6035	4.8557	3.5389	5.0752	10.2875
191630019	FRM	Iowa	Scott	41.517772	-90.618755	55062	33.8	28.7	0.5	0.6718	0.6457	3.8603	11.9532	5.4658	6.2796
191770006	FRM	Iowa	Van Buren	40.695078	-92.006318	45054	25.9	22.6	0.5	0.5434	0.7049	4.2667	3.9968	3.5462	10.2123
191930017	FRM	Iowa	Woodbury	42.517968	-96.387903	15070	28.3	25.3	0.5	0.8766	0.5882	3.422	10.0782	2.9714	8.1021
200910007	FRM	Kansas	Johnson	38.974444	-94.686944	27037	21.2	18.6	0.5	0.8386	0.8381	2.463	6.4463	3.2363	4.6616
200910010	FRM	Kansas	Johnson	38.83859	-94.74643	27036	19.5	17.3	0.5	0.7503	0.6588	2.4339	5.4717	3.0744	4.6665
201070002	FRM	Kansas	Linn	38.135833	-94.731944	27030	21.2	18.8	0.5	1.1799	0.7442	2.4476	6.5819	4.7549	2.6585

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_id	_type	_state_name	_county_name	monitor_lat	monitor_long	monitor_gridcell	b_pm25_d_DV	f_pm25_d_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
201730008	FRM	Kansas	Sedgwick	37.659722	-97.297222	8025	21.5	19.1	0.5	0.5258	0.3365	3.6388	3.3864	3.786	7.6351
201730009	FRM	Kansas	Sedgwick	37.651111	-97.362222	8025	21.9	19.3	0.5	0.5729	0.214	3.0241	5.5437	5.3776	4.8221
201730010	FRM	Kansas	Sedgwick	37.701111	-97.313889	8025	21.7	19.2	0.5	0.5445	0.1974	2.9025	5.9327	5.1667	4.6248
201910002	FRM	Kansas	Sumner	37.476944	-97.366389	8023	21.1	18.7	0.5	0.5083	0.3253	3.1517	4.9613	3.3753	6.527
202090021	FRM	Kansas	Wyandotte	39.1175	-94.635556	27039	22.7	20.6	0.5	0.7708	1.0241	2.2677	9.0525	3.1611	4.2884
202090022	FRM	Kansas	Wyandotte	39.045833	-94.694444	27038	21.5	19.2	0.5	0.9783	0.8758	2.1313	8.3367	3.6671	2.9657
210130002	FRM	Kentucky	Bell	36.608056	-83.736944	108022	26.5	23.9	0.5	0.8796	1.5184	1.9504	13.5076	5.3008	0.6448
210190017	FRM	Kentucky	Boyd	38.459167	-82.640556	114040	30.4	23.2	0.5	0.5663	0.9362	3.6534	7.5883	12.7059	0.3605
210290006	FRM	Kentucky	Bullitt	37.985556	-85.713056	92033	31.3	25.9	0.5	0.834	1.1329	4.1539	7.7389	9.16	3.3406
210430500	FRM	Kentucky	Carter	38.238333	-82.988333	112038	26.3	20.1	0.5	0.7667	1.2633	3.2517	5.2817	8.7133	1.365
210470006	FRM	Kentucky	Christian	36.911667	-87.323611	82022	31	25.1	0.5	1.1729	0.8668	4.6875	4.8514	12.5597	2.1805
210590005	FRM	Kentucky	Daviess	37.780833	-87.075556	83030	29.7	23.7	0.5	0.4002	0.6799	4.2258	5.7167	10.4289	2.7782
210670012	FRM	Kentucky	Fayette	38.065	-84.5	101035	29.2	23.2	0.5	0.6345	0.8396	4.0554	5.6847	8.5945	4.0855
210670014	FRM	Kentucky	Fayette	38.038889	-84.5075	101035	28.9	24.3	0.5	0.5826	0.7985	3.9378	7.8896	7.9748	3.8078
210730006	FRM	Kentucky	Franklin	38.219361	-84.8385	98036	28.8	21.6	0.5	0.6732	0.9037	3.8303	6.6904	10.3315	1.2152
210930006	FRM	Kentucky	Hardin	37.706389	-85.851667	92030	31.8	24.6	0.5	0.7773	1.0855	4.312	4.6458	7.9655	4.7834
211010014	FRM	Kentucky	Henderson	37.871389	-87.463333	80031	28.2	24.7	0.5	1.4712	0.6785	3.4593	8.4781	8.8967	1.3514
211110043	FRM	Kentucky	Jefferson	38.23319	-85.81566	91035	31.7	26	0.5	1.1855	1.0381	3.7768	10.1856	10.2845	0.7544
211110044	FRM	Kentucky	Jefferson	38.19113	-85.77935	92035	33.1	26.3	0.5	0.8642	1.0926	4.1117	8.5651	9.3833	2.8545
211110048	FRM	Kentucky	Jefferson	38.24024	-85.73195	92035	33.1	25.9	0.5	0.6003	1.0276	4.1239	9.1749	10.4657	2.3577
211110051	FRM	Kentucky	Jefferson	38.06091	-85.89804	91034	31.2	22.3	0.5	1.083	1.0572	4.538	5.1344	13.7752	0
211170007	FRM	Kentucky	Kenton	39.0725	-84.525	99044	29.8	24.1	0.5	0.4217	0.8575	4.1444	5.9665	9.1943	4.2084
211451004	FRM	Kentucky	McCracken	37.065556	-88.637778	72022	31.9	25.5	0.5	0.7907	0.8683	3.2377	12.8752	10.032	0
211510003	FRM	Kentucky	Madison	37.738056	-84.285556	103032	27.8	22.4	0.5	0.6558	1.0158	4.1438	4.7182	8.7931	3.961
211830032	FRM	Kentucky	Ohio	37.319725	-86.956097	84026	29.4	24.4	0.5	0.6165	0.8652	4.4701	5.0907	10.8155	2.8644
211950002	FRM	Kentucky	Pike	37.482778	-82.535278	116032	27.8	21.2	0.5	0.6983	1.5783	2.6042	8.7532	7.493	0.4235
230010011	FRM	Maine	Androscoggin	44.089406	-70.214219	186110	23.5	21.9	0.5	0.4619	0.6966	1.5953	13.4758	5.0474	0.324
230050015	FRM	Maine	Cumberland	43.678056	-70.256667	187107	20.8	19.1	0.5	0.4008	0.5496	1.459	11.4236	5.1024	0.0723
230090103	FRM	Maine	Hancock	44.37705	-68.2609	197117	19.4	17.3	0.5	0.5658	0.6316	2.3748	5.3365	7.3591	0.368
230110016	FRM	Maine	Kennebec	44.312319	-69.786717	188113	19.8	18.4	0.5	0.3549	0.6365	1.1645	12.1689	3.1841	0.5104
230172011	FRM	Maine	Oxford	44.551419	-70.546319	183114	22.4	21	0.5	0.3219	0.5127	0.9925	16.0254	2.841	0.2973
230190002	FRM	Maine	Penobscot	44.798796	-68.769107	193119	21.7	19.8	0.5	0.7399	1.2651	1.9395	9.2908	5.0759	0.8634
240031003	FRM	Maryland	Anne Arundel	39.169533	-76.627933	155055	33.6	29.6	0.5	0.9431	1.4545	4.3941	7.8744	10.1737	4.6458
240051007	FRM	Maryland	Baltimore	39.460833	-76.631111	154058	31.5	27.4	0.5	0.9713	1.457	4.2677	7.6053	10.9843	1.767
240053001	FRM	Maryland	Baltimore	39.310833	-76.474444	156057	32.7	29.7	0.5	0.7477	1.7546	3.2526	14.3478	6.6463	3.0191
240251001	FRM	Maryland	Harford	39.41	-76.296667	157058	28.7	24.8	0.5	0.7289	1.2496	3.7488	5.9356	7.7059	3.8529
240313001	FRM	Maryland	Montgomery	39.114444	-77.106944	152054	28.4	23.6	0.5	0.8806	1.0402	3.473	7.7983	9.5836	1.632
240338003	FRM	Maryland	Prince George's	38.81194	-76.74417	155052	31.1	25.7	0.5	0.9429	1.5937	4.0093	7.0692	10.2126	3.42
240430009	FRM	Maryland	Washington	39.565556	-77.721944	146057	29.5	27.4	0.5	0.6457	1.1373	3.7292	10.0532	6.4125	4.7166
245100006	FRM	Maryland	Baltimore (City)	39.340556	-76.582222	155057	32.9	27.8	0.5	0.8661	1.4486	3.6603	10.0524	8.9268	2.0599
245100007	FRM	Maryland	Baltimore (City)	39.344444	-76.685278	154057	32.5	28.9	0.5	1.1527	2.1233	3.9433	8.281	7.9777	4.3377
245100008	FRM	Maryland	Baltimore (City)	39.28768	-76.547616	155056	34.8	30.7	0.5	0.8306	1.1749	4.0534	11.8037	11.3088	1.0488
245100040	FRM	Maryland	Baltimore (City)	39.298056	-76.604722	155056	34.1	31.6	0.5	0.8802	1.6626	3.4882	13.2682	7.0742	3.912
250035001	FRM	Massachusetts	Berkshire	42.447381	-73.258025	170090	27.4	25.1	0.5	0.5005	0.7874	1.8128	15.8601	4.2265	1.161
250051004	FRM	Massachusetts	Bristol	41.683279	-71.169171	186087	24.7	21.5	0.5	0.7427	0.8863	2.7809	8.5043	7.8867	0.5695
250092006	FRM	Massachusetts	Essex	42.474671	-70.971358	185095	26	23.5	0.5	0.6057	1.141	3.092	8.3049	7.2424	2.2825
250095005	FRM	Massachusetts	Essex	42.77077	-71.102259	184097	25.4	22.4	0.5	0.528	0.9059	2.6746	8.977	8.2998	0.8268
250096001	FRM	Massachusetts	Essex	42.698245	-71.164951	183096	26.9	24	0.5	0.5924	0.92	2.7762	10.5559	8.099	0.8352
250130008	FRM	Massachusetts	Hampden	42.19438	-72.555112	176089	27.9	24.5	0.5	0.4329	1.1715	2.3939	12.4787	4.5585	2.9796
250130016	FRM	Massachusetts	Hampden	42.108581	-72.590614	176088	30.8	28.1	0.5	0.5389	1.0192	2.5919	16.1182	6.5636	1.1809
250132009	FRM	Massachusetts	Hampden	42.105439	-72.59717	176088	30.7	27.7	0.5	0.4037	1.038	2.1048	17.3	4.152	2.5085
250170009	FRM	Massachusetts	Middlesex	42.62668	-71.362068	182095	21.9	17.9	0.5	0.5114	0.7608	2.6165	5.4645	7.9855	0.7137
250230004	FRM	Massachusetts	Plymouth	42.082028	-71.0148	186091	27.7	23.9	0.5	0.6321	1.1363	3.3938	8.0748	8.4393	2.1407
250250002	FRM	Massachusetts	Suffolk	42.348873	-71.097163	185093	28.7	26.5	0.5	0.7767	1.0851	2.938	12.441	7.1598	1.0921
250250027	FRM	Massachusetts	Suffolk	42.371933	-71.062031	185093	27.4	24.4	0.5	0.7588	1.0275	2.8209	10.8121	6.9905	0.9479
250250042	FRM	Massachusetts	Suffolk	42.3294	-71.0825	185093	28.1	26.1	0.5	0.5968	1.0928	3.1377	10.9222	7.0602	2.4083
250250043	FRM	Massachusetts	Suffolk	42.3631	-71.0542	185093	27.9	25.7	0.5	0.5955	1.2968	2.4101	13.692	4.5256	2.6707

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250270016	FRM	Massachusetts	Worcester	42.258571	-71.799067	180091	29	25.3	0.5	0.6378	1.0599	2.9598	11.6216	7.7879	1.7572
250270023	FRM	Massachusetts	Worcester	42.263877	-71.794186	180091	28.2	24.8	0.5	0.6067	1.0164	2.5766	12.5184	6.2261	1.5881
260050003	FRM	Michigan	Allegan	42.767786	-86.148577	84076	30.1	27.6	0.5	0.2907	0.5648	4.2488	8.7865	5.1287	8.0759
260170014	FRM	Michigan	Bay	43.571391	-83.890721	98086	25.5	23.3	0.5	0.7758	0.6479	3.0201	8.7577	4.0847	5.4108
260210014	FRM	Michigan	Berrien	42.19779	-86.309694	83071	28.5	24.6	0.5	0.9444	0.9412	4.1757	5.6036	9.6439	3.0081
260490021	FRM	Michigan	Genesee	43.047224	-83.670159	100081	25.8	23.6	0.5	1.3068	0.9088	3.865	4.7221	5.041	7.037
260650012	FRM	Michigan	Ingham	42.738618	-84.534633	95078	27.1	24.1	0.5	1.3305	0.8971	3.655	6.7067	7.133	4.1465
260770008	FRM	Michigan	Kalamazoo	42.278067	-85.54189	89072	28.1	25.7	0.5	0.8111	1.1571	3.0004	10.8338	5.4182	4.4748
260810020	FRM	Michigan	Kent	42.984173	-85.671339	87079	29.2	26.7	0.5	0.3601	0.6648	3.9057	8.7255	4.5428	7.6175
260990009	FRM	Michigan	Macomb	42.731394	-82.793463	106079	30.7	26.4	0.5	1.9815	0.9132	3.9695	7.1165	7.3862	4.64
261130001	FRM	Michigan	Missaukee	44.310555	-84.891865	90092	21.9	18.3	0.5	0.2396	0.5591	2.3361	7.8269	3.7537	3.9734
261150005	FRM	Michigan	Monroe	41.763889	-83.471944	103070	31.1	27.4	0.5	0.4415	0.6895	4.3043	8.1111	8.7853	4.35
261210040	FRM	Michigan	Muskegon	43.233061	-86.23858	83081	28	25.2	0.5	0.3538	0.655	3.9267	7.5278	4.7143	7.5653
261250001	FRM	Michigan	Oakland	42.463063	-83.183199	104076	32.9	28.1	0.5	1.9564	1	4.5219	6.1278	8.3118	5.5851
261390005	FRM	Michigan	Ottawa	42.894451	-85.852734	86078	28.4	27	0.5	0.3878	0.6925	4.2658	7.0081	5.0691	8.2269
261470005	FRM	Michigan	St. Clair	42.953336	-82.456229	108082	35	31.7	0.5	1.9267	0.9628	4.2571	10.9409	8.6065	4.4023
261610008	FRM	Michigan	Washtenaw	42.240565	-83.599602	102074	31.3	26.2	0.5	0.295	0.649	3.599	11.977	3.953	7.2865
261630001	FRM	Michigan	Wayne	42.22862	-83.2082	104074	31.5	28.9	0.5	0.7005	0.958	4.4051	9.0641	5.6199	8.0194
261630015	FRM	Michigan	Wayne	42.302786	-83.10653	105075	34.8	31.9	0.5	2.4672	1.0631	4.5935	8.3765	8.596	5.7372
261630016	FRM	Michigan	Wayne	42.357808	-83.096033	105075	33.7	29.3	0.5	2.5825	0.9693	4.3617	7.7472	8.0125	5.1873
261630019	FRM	Michigan	Wayne	42.43084	-83.000138	105076	33.3	30	0.5	2.5675	0.9626	4.2117	9.3555	7.6873	5.0996
261630025	FRM	Michigan	Wayne	42.423063	-83.426263	103076	30.5	27.6	0.5	1.4445	0.9	4.2685	7.3556	7.9986	4.973
261630033	FRM	Michigan	Wayne	42.306674	-83.148754	105075	37.1	34.4	0.5	2.7834	1.1231	4.8853	9.2938	9.2365	6.0024
261630036	FRM	Michigan	Wayne	42.187289	-83.153905	105074	29.3	26.6	0.5	0.7719	0.827	4.4934	5.2928	5.4858	8.4905
261630039	FRM	Michigan	Wayne	42.323341	-83.068473	105075	32.9	28.6	0.5	2.6975	1.0605	4.7813	4.889	8.4296	6.0676
270370470	FRM	Minnesota	Dakota	44.73846	-93.23725	35091	23.3	20.6	0.5	0.693	0.7962	3.1648	6.6529	4.4831	5.1883
270530961	FRM	Minnesota	Hennepin	44.87551	-93.25892	35092	22.5	19.7	0.5	0.4487	0.8553	3.5875	3.9735	4.2143	7.043
270530963	FRM	Minnesota	Hennepin	44.95366	-93.25821	35093	23	20.4	0.5	0.3375	0.45	3.5775	4.68	2.6325	8.9325
270531007	FRM	Minnesota	Hennepin	45.03972	-93.29874	35094	25.4	22.5	0.5	0.4828	0.8705	3.808	5.8305	4.293	7.693
271230866	FRM	Minnesota	Ramsey	44.89926	-93.01708	37092	26	23	0.5	0.4018	0.6935	4.0396	5.3097	4.6995	7.9331
271230868	FRM	Minnesota	Ramsey	44.95072	-93.09827	36093	27	24.4	0.5	0.7968	0.8092	3.445	8.7674	5.1159	5.3618
271230871	FRM	Minnesota	Ramsey	44.95939	-93.03587	36093	29.1	25.6	0.5	0.4705	0.9549	4.8654	3.9867	7.1185	7.6479
271377001	FRM	Minnesota	Saint Louis	47.523355	-92.536305	39117	17.2	15.4	0.5	0.7758	0.4383	1.5349	8.0779	3.3994	1.2373
271377550	FRM	Minnesota	Saint Louis	46.81826	-92.08936	42110	20.2	18.5	0.5	0.8745	0.5128	2.8869	4.8683	5.8804	2.4239
271377551	FRM	Minnesota	Saint Louis	46.76643	-92.13354	41110	23.1	21	0.5	0.9095	0.5266	2.766	8.1454	4.6839	3.7878
271390505	FRM	Minnesota	Scott	44.791437	-93.512534	33091	22.6	19.9	0.5	0.6328	0.748	3.1281	6.1523	4.1071	5.5657
271453052	FRM	Minnesota	Stearns	45.549839	-94.13345	29098	20.3	17.8	0.5	0.8785	0.5781	2.9978	4.042	3.67	6.0147
280330002	FRM	Mississippi	DeSoto	34.82166	-89.98783	63001	25.7	25.7	0.5	0.7667	1.3111	3.3449	6.0029	10.2261	0
290210005	FRM	Missouri	Buchanan	39.741694	-94.858584	26044	26.1	24	0.5	0.8371	0.6657	2.8131	10.9697	4.3658	4.2601
290370003	FRM	Missouri	Cass	38.770278	-94.58	28035	22.3	19.6	0.5	0.9777	0.7217	2.61	7.0647	4.2247	3.7591
290470005	FRM	Missouri	Clay	39.30309	-94.376623	29040	23.9	20.9	0.5	0.4382	0.5206	3.0404	7.5133	3.8105	5.5432
290770032	FRM	Missouri	Greene	37.205346	-93.283526	38021	24.6	22.3	0.5	0.6767	0.6767	2.52	10.57	4.5033	3.01
290950034	FRM	Missouri	Jackson	39.104758	-94.570796	28038	25.5	23.4	0.5	0.9999	1.0831	2.8159	9.4258	3.7639	5.3471
291860006	FRM	Missouri	Sainte Genevieve	37.967281	-90.051204	61030	27.7	23.8	0.5	0.8785	0.4978	3.1269	9.9826	7.8166	1.5448
291892003	FRM	Missouri	Saint Louis	38.649771	-90.350659	58036	28.1	24.5	0.5	0.5241	0.7193	3.8275	7.6842	5.9009	5.7421
295100007	FRM	Missouri	St. Louis City	38.542551	-90.263711	59035	29.8	26.7	0.5	0.5523	0.7293	3.7485	10.1489	5.9631	5.5113
295100085	FRM	Missouri	St. Louis City	38.656349	-90.198198	59036	30.7	26.2	0.5	0.6429	0.6692	4.3402	7.5302	8.6187	4.8306
295100087	FRM	Missouri	St. Louis City	38.642493	-90.185681	59036	30.1	26.8	0.5	0.8082	0.7115	3.5316	11.0313	7.0251	3.6968
310550019	FRM	Nebraska	Douglas	41.245947	-95.973128	18058	23	21.1	0.5	1.3529	0.8105	2.1863	9.5773	3.8569	2.8455
310550052	FRM	Nebraska	Douglas	41.333056	-96.099722	17059	22.9	21	0.5	1.2456	0.7356	2.491	8.655	3.0888	4.6817
310790004	FRM	Nebraska	Hall	40.942099	-98.364967	1055	17.5	17.5	0.5	0.768	0.5632	2.0139	6.2976	2.4064	4.0107
311090022	FRM	Nebraska	Lancaster	40.81259	-96.68302	13054	17.8	15.9	0.5	1.321	0.6328	1.5694	7.855	4.2482	0.2029
311530007	FRM	Nebraska	Sarpy	41.133613	-95.955835	18057	24.1	22.5	0.5	1.4866	0.7221	1.9305	11.899	5.3481	0.2547
311770002	FRM	Nebraska	Washington	41.551136	-96.146753	16061	20.8	19.1	0.5	1.1802	0.5696	2.025	8.9568	3.3608	2.6814
330012004	FRM	New Hampshire	Belknap	43.565278	-71.495833	179103	17.6	14.1	0.5	0.4956	0.5763	2.0041	4.8036	6.9698	0.2496
330090010	FRM	New Hampshire	Grafton	43.62957	-72.226083	174102	19	17	0.5	0.4511	0.5927	1.5492	9.1235	4.7288	0.5489
330111015	FRM	New Hampshire	Hillsborough	42.76186	-71.44455	181096	26.9	24.7	0.5	0.6633	1.3347	2.4549	11.6786	6.6567	1.6217

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_id	_type	_state_name	_county_name	monitor_lat	monitor_long	monitor_gridcell	b_pm25_d_DV	f_pm25_d_DV	b_blank_mass	b_crustal_mass	b_EC_mass	b_NH4_mass	b_Ocmb_mass	b_SO4_mass	b_NO3_mass
330131006	FRM	New Hampshire	Merrimack	43.132444	-71.45827	180099	24.4	21.3	0.5	0.5685	1.1476	2.026	10.8129	5.6106	1.363
330150014	FRM	New Hampshire	Rockingham	43.075278	-70.748056	185100	24.2	21.5	0.5	0.458	0.8772	2.3133	9.3775	8.1616	0.7569
330190003	FRM	New Hampshire	Sullivan	43.364444	-72.338333	174100	20.6	18.2	0.5	0.4768	0.6062	1.7361	9.7293	5.2522	0.7532
340030003	FRM	New Jersey	Bergen	40.852256	-73.973314	169075	34.9	30.3	0.5	1.0968	2.31	4.9683	6.6837	9.5376	5.1581
340070003	FRM	New Jersey	Camden	39.923042	-75.097617	164064	34.7	29.5	0.5	1.7016	1.405	4.3166	10.6023	10.65	1.518
340071007	FRM	New Jersey	Camden	39.989036	-75.050008	164065	33.6	30.3	0.5	1.4508	1.9873	3.9053	11.2814	6.741	4.7599
340171003	FRM	New Jersey	Hudson	40.725454	-74.05229	169073	35.9	35	0.5	0.9905	2.0636	4.1321	13.6463	6.3523	6.0097
340172002	FRM	New Jersey	Hudson	40.772793	-74.031718	169074	37.8	33.2	0.5	1.0579	2.069	3.7763	15.5909	7.9543	2.7701
340210008	FRM	New Jersey	Mercer	40.222411	-74.763167	165068	33.2	29.6	0.5	0.9154	1.9887	4.0405	10.4801	6.5974	5.3979
340230006	FRM	New Jersey	Middlesex	40.472786	-74.422515	167070	30.7	26.4	0.5	0.7253	1.6441	3.9733	8.3793	8.5267	3.0455
340270004	FRM	New Jersey	Morris	40.801584	-74.483817	166073	28.8	24.9	0.5	0.7018	1.8499	3.607	7.0411	6.478	4.242
340273001	FRM	New Jersey	Morris	40.787628	-74.676301	165073	28	23.3	0.5	0.4569	0.5592	3.5258	7.6346	9.8524	0.8151
340292002	FRM	New Jersey	Ocean	39.994908	-74.170447	170067	28.5	23.4	0.5	0.9913	1.5501	3.7036	6.6977	9.6457	1.0038
340310005	FRM	New Jersey	Passaic	40.918381	-74.168092	168075	32.8	30.3	0.5	0.9802	2.5161	4.164	8.8423	6.6127	5.9603
340390004	FRM	New Jersey	Union	40.64144	-74.208365	168072	36.2	32.6	0.5	1.1244	3.7975	3.4777	13.2421	6.1848	4.4117
340390006	FRM	New Jersey	Union	40.673406	-74.213889	168073	35.2	32.4	0.5	1.2017	4.017	3.8453	10.918	6.386	5.562
360050080	FRM	New York	Bronx	40.83606	-73.92009	170075	35.7	33.3	0.5	1.2243	2.6541	3.9332	12.5612	7.0221	4.6644
360050110	FRM	New York	Bronx	40.81618	-73.902	170074	33.6	30.8	0.5	1.1152	2.2312	4.802	6.6704	9.6817	4.4856
360130011	FRM	New York	Chautauqua	42.29071	-79.58961	129079	25.9	21	0.5	0.6898	0.7408	3.2046	6.5414	7.4655	1.9405
360290005	FRM	New York	Erie	42.876907	-78.809526	133085	30.2	28.6	0.5	1.0944	0.8352	3.5712	8.6976	5.7312	6.6816
360291007	FRM	New York	Erie	42.8273	-78.84984	133085	29.7	26.9	0.5	0.9922	0.8122	4.0084	7.11	8.8957	3.9072
360310003	FRM	New York	Essex	44.39308	-73.8589	162106	16.6	14.2	0.5	0.287	0.18	1.5485	6.8185	4.3645	1.0945
360470122	FRM	New York	Kings	40.71961	-73.94771	170073	33.5	30	0.5	1.1849	2.0254	4.5809	8.7238	10.8868	1.7858
360551007	FRM	New York	Monroe	43.14618	-77.54817	141089	26.7	24.3	0.5	0.4794	0.819	3.5831	7.2164	5.5244	5.6471
360590008	FRM	New York	Nassau	40.63103	-73.73388	171073	30.2	28.2	0.5	1.0783	2.4984	3.9219	8.0213	6.6864	4.9751
360610056	FRM	New York	New York	40.75912	-73.96661	170074	36.8	33.6	0.5	0.9722	2.2274	4.6031	10.317	6.7285	7.2808
360610079	FRM	New York	New York	40.7997	-73.93432	170074	34.7	30.9	0.5	1.3815	2.2346	4.6934	8.9262	11.3127	1.6306
360632008	FRM	New York	Niagara	43.08218	-79.00106	131087	27.2	24.8	0.5	0.8053	0.7908	3.1047	8.627	5.4915	4.568
360671015	FRM	New York	Onondaga	43.05235	-76.05921	151091	24.2	21.2	0.5	0.6355	0.6345	3.2319	6.4672	7.484	2.4822
360710002	FRM	New York	Orange	41.49916	-74.00885	168080	27.9	23.3	0.5	0.7921	1.3648	2.9768	8.7003	6.7038	1.9785
360810124	FRM	New York	Queens	40.73614	-73.82153	171074	31.9	29.1	0.5	0.9906	2.3579	4.0817	7.974	6.4259	5.9943
360850067	FRM	New York	Richmond	40.59664	-74.12525	169072	29.5	26.2	0.5	0.9889	2.7505	3.3954	8.9415	7.0924	2.6935
360893001	FRM	New York	St. Lawrence	44.67811	-74.95151	154107	18.3	14.6	0.5	0.4178	0.3383	2.2067	4.6231	6.7399	1.224
361010003	FRM	New York	Steuben	42.09142	-77.20978	145080	24.8	19.5	0.5	0.4372	0.5267	2.9671	5.7417	7.8473	1.9479
361030002	FRM	New York	Suffolk	40.74529	-73.41919	173075	29.1	24.2	0.5	0.9504	1.9339	3.695	6.6088	7.6595	2.9853
361191002	FRM	New York	Westchester	40.93149	-73.76575	171076	31.8	27.3	0.5	1.2035	2.3677	3.9432	7.6753	8.0158	3.4403
370010002	FRM	North Carolina	Alamance	36.089004	-79.407821	141023	28.3	22.9	0.5	0.5085	0.7041	3.0001	11.2793	9.152	0.032
370210034	FRM	North Carolina	Buncombe	35.6075	-82.583333	118015	27.2	21.5	0.5	0.4605	0.6856	2.7429	10.7681	9.1963	0.2384
370330001	FRM	North Carolina	Caswell	36.307033	-79.467417	140025	27.2	22.1	0.5	0.5079	0.6149	3.1011	9.9983	9.1161	0
370350004	FRM	North Carolina	Catawba	35.728889	-81.365556	127017	29.6	25.4	0.5	0.5237	1.77	2.2847	14.4421	5.0346	1.3818
370510009	FRM	North Carolina	Cumberland	35.041416	-78.953112	146014	27.7	24.5	0.5	0.6799	0.6534	2.9757	11.2709	8.3838	0
370570002	FRM	North Carolina	Davidson	35.814444	-80.2625	135019	28.8	23.6	0.5	0.6257	0.9298	3.2012	10.3296	9.366	0.1649
370610002	FRM	North Carolina	Duplin	34.954823	-77.960781	154015	24.1	19.7	0.5	0.4916	0.6415	2.431	9.7557	6.6605	0.2101
370650004	FRM	North Carolina	Edgecombe	35.93355	-77.75007	153024	25.2	21.9	0.5	0.4868	1.0439	2.4602	11.2419	6.2349	0.4417
370670022	FRM	North Carolina	Forsyth	36.110556	-80.226667	135022	28.5	24.3	0.5	0.4027	1.2725	2.4539	13.3145	5.3081	1.6855
370670030	FRM	North Carolina	Forsyth	36.026	-80.342	134021	29	23.7	0.5	0.4452	0.9901	2.88	11.3891	7.3996	0.8468
370710016	FRM	North Carolina	Gaston	35.253056	-81.153333	129013	27.4	21.4	0.5	0.767	0.9392	3.1612	8.4217	9.6478	0.164
371070004	FRM	North Carolina	Lenoir	35.231459	-77.568792	156018	22.9	19	0.5	0.2575	0.6448	1.618	12.3404	4.4489	0
371110004	FRM	North Carolina	McDowell	35.687404	-81.993789	122016	28.7	22.7	0.5	0.5985	0.7914	3.1338	10.5464	9.477	0.2169
371170001	FRM	North Carolina	Martin	35.81069	-76.89782	160024	22.7	19.1	0.5	0.4971	0.8374	2.6571	7.7763	6.7341	0.696
371190041	FRM	North Carolina	Mecklenburg	35.2401	-80.785683	132013	28.9	24	0.5	0.9735	1.0191	3.0721	9.4767	8.6635	0.3042
371190042	FRM	North Carolina	Mecklenburg	35.151283	-80.866983	132013	27.2	22.9	0.5	0.9341	1.0438	3.0598	8.492	8.5561	0.316
371190043	FRM	North Carolina	Mecklenburg	35.3041	-80.88865	131014	28.5	24.1	0.5	0.6133	1.2013	3.54	8.3174	8.3841	1.5158
371210001	FRM	North Carolina	Mitchell	35.915278	-82.073333	122018	27.3	22	0.5	0.58	1.1117	2.4408	11.0683	6.3075	0.3867
371230001	FRM	North Carolina	Montgomery	35.26	-79.84	139015	25.6	20	0.5	0.4782	0.6845	3.0533	8.0535	9.3738	0.0624
371290002	FRM	North Carolina	New Hanover	34.364167	-77.838611	156010	30.9	25.8	0.5	0.7444	1.0084	3.6456	10.9577	9.9711	0.4658
371470005	FRM	North Carolina	Pitt	35.594167	-77.386111	157022	24.2	20.7	0.5	0.4047	0.7579	2.2816	10.9831	6.0419	0.2904

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371550005	FRM	North Carolina	Robeson	34.6425	-78.990278	147011	26.7	22.1	0.5	0.2804	0.6884	3.433	8.4388	9.522	0.2676
371590021	FRM	North Carolina	Rowan	35.551868	-80.395039	135017	27.9	23.2	0.5	0.4164	0.4779	2.8137	12.1695	7.5111	0.705
371730002	FRM	North Carolina	Swain	35.435509	-83.443697	112012	26.6	21	0.5	0.5758	0.8292	2.0039	12.1616	4.9982	0.691
371830014	FRM	North Carolina	Wake	35.856111	-78.574167	147022	29.6	24.7	0.5	0.6092	1.1836	2.8783	12.1965	7.4343	0.4
371890003	FRM	North Carolina	Watauga	36.221944	-81.663056	124021	24.7	19.5	0.5	0.4704	0.714	2.9601	8.057	8.6813	0.2773
371910005	FRM	North Carolina	Wayne	35.369214	-77.993893	153019	28.5	23.5	0.5	0.4512	0.8212	2.5944	12.6907	6.9327	0.2845
380171004	FRM	North Dakota	Cass	46.933754	-96.85535	11111	19.1	16.9	0.5	1.6706	0.4849	1.5161	9.2037	4.2052	0
390090003	FRM	Ohio	Athens	39.4425	-81.908611	117050	31.5	22.8	0.5	0.9693	0.7925	4.1677	6.3219	15.1079	0
390170003	FRM	Ohio	Butler	39.493611	-84.353889	100048	31.3	27	0.5	0.8272	0.9524	4.9198	4.2754	12.8112	2.3048
390170016	FRM	Ohio	Butler	39.338333	-84.566389	99046	33.7	29.6	0.5	0.8648	1.3806	4.0058	10.8966	10.6992	1.333
390230005	FRM	Ohio	Clark	39.928889	-83.809722	103053	32.2	25.9	0.5	0.5976	0.7052	4.5365	7.9139	11.7151	1.708
390250022	FRM	Ohio	Clermont	39.082319	-84.144193	102045	29.5	24.8	0.5	0.6846	1.2005	4.2492	5.2716	12.4833	0.7945
390350027	FRM	Ohio	Cuyahoga	41.4775	-81.703056	116069	36	33.2	0.5	2.3236	1.5532	4.8946	8.521	9.1139	5.2404
390350034	FRM	Ohio	Cuyahoga	41.555	-81.575	116070	32.4	26.3	0.5	1.7779	1.577	4.1657	5.3675	6.8216	5.5773
390350038	FRM	Ohio	Cuyahoga	41.476944	-81.681944	116069	38.4	34.2	0.5	1.9194	1.7042	4.5375	11.6111	7.3068	6.1914
390350045	FRM	Ohio	Cuyahoga	41.471667	-81.657222	116069	33.3	28.9	0.5	1.9411	1.7472	4.5726	5.914	7.4595	6.1635
390350060	FRM	Ohio	Cuyahoga	41.493955	-81.678542	116069	35.9	32.3	0.5	1.979	1.814	4.651	9.2861	7.6692	6.1462
390350065	FRM	Ohio	Cuyahoga	41.446389	-81.661944	116069	33	27.8	0.5	1.81	1.6514	4.2334	6.6251	6.9713	5.6187
390351002	FRM	Ohio	Cuyahoga	41.395556	-81.818056	115068	31	25.8	0.5	1.6541	1.0922	4.4453	5.7043	10.8078	2.3063
390490024	FRM	Ohio	Franklin	39.998333	-82.993056	109054	32	28.1	0.5	0.8735	0.9555	3.2594	12.6146	5.825	4.1442
390490025	FRM	Ohio	Franklin	39.928056	-82.981111	109053	32.2	26.8	0.5	0.8266	0.9222	3.0401	12.2469	5.4754	3.8098
390570005	FRM	Ohio	Greene	39.808056	-83.886944	103051	28.6	23.1	0.5	0.6697	0.7005	3.2136	9.512	6.5777	3.2725
390610006	FRM	Ohio	Hamilton	39.278499	-84.365974	100046	31.6	27.2	0.5	0.506	0.8986	4.1129	8.4137	11.0604	1.7578
390610014	FRM	Ohio	Hamilton	39.194167	-84.478889	100045	34.9	28.9	0.5	0.5844	1.0069	3.9323	12.1111	9.1284	2.2929
390610040	FRM	Ohio	Hamilton	39.128611	-84.504167	100045	31	25.6	0.5	0.4526	0.9274	4.4546	6.426	11.6044	1.6347
390610042	FRM	Ohio	Hamilton	39.105	-84.551111	99044	32.6	28.2	0.5	0.4983	0.9239	3.9865	9.7828	6.7415	5.3504
390610043	FRM	Ohio	Hamilton	39.290278	-84.414444	100046	32.3	27.7	0.5	0.5514	0.8957	4.4326	8.0031	11.4878	1.8287
390617001	FRM	Ohio	Hamilton	39.16	-84.457778	100045	32.6	26.7	0.5	0.5147	1.0937	4.632	6.6907	14.1533	0
390618001	FRM	Ohio	Hamilton	39.180278	-84.491944	100045	34.1	28.7	0.5	0.5394	1.1516	3.5629	12.6269	9.3857	1.0847
390810017	FRM	Ohio	Jefferson	40.366104	-80.615002	125060	36.9	31.4	0.5	2.0282	1.9158	4.3025	10.4449	11.0975	1.535
390811001	FRM	Ohio	Jefferson	40.321944	-80.606389	125060	34.4	26.8	0.5	0.9876	1.1717	3.7465	10.987	10.5678	1.0699
390853002	FRM	Ohio	Lake	41.7225	-81.241944	118072	31.7	26.8	0.5	1.7272	1.1502	4.2597	5.9063	8.9339	3.5775
390933002	FRM	Ohio	Lorain	41.463056	-82.114444	113068	31.1	25.8	0.5	1.583	0.389	2.2897	14.66	5.7915	0.9609
390950024	FRM	Ohio	Lucas	41.644167	-83.546667	103069	30.1	26.4	0.5	0.6285	1.026	4.1463	7.8113	5.4869	7.3838
390950026	FRM	Ohio	Lucas	41.620556	-83.641389	102068	30.6	27	0.5	1.0898	0.8541	4.7842	4.9661	8.8076	5.5284
390990005	FRM	Ohio	Mahoning	41.111111	-80.645278	123067	31.4	23.4	0.5	1.6263	1.4728	4.0991	6.0324	11.5329	0.8181
390990014	FRM	Ohio	Mahoning	41.095868	-80.658426	123067	31.8	27.9	0.5	1.4735	1.5527	3.7319	10.032	8.4369	2.8746
391030003	FRM	Ohio	Medina	41.102778	-81.911667	115065	29.1	24.1	0.5	1.123	0.9053	3.6832	6.1005	6.0565	5.3633
391130032	FRM	Ohio	Montgomery	39.760278	-84.187778	101051	32.4	28.8	0.5	0.3916	0.6285	3.1379	15.2948	4.9629	4.3883
391330002	FRM	Ohio	Portage	41.164167	-81.235	119067	30.3	24.6	0.5	1.2251	1.0582	4.3156	4.5443	8.6767	4.1009
391351001	FRM	Ohio	Preble	39.835556	-84.720833	97051	29.1	25.1	0.5	0.6045	0.9156	3.7295	7.9862	6.8124	4.411
391450013	FRM	Ohio	Scioto	38.754167	-82.9175	111043	30.8	26.4	0.5	1.1	1.6286	3.6355	9.2835	10.3564	1.1462
391530017	FRM	Ohio	Summit	41.063333	-81.468611	118066	34.1	26.1	0.5	0.934	0.8423	4.5891	5.3466	9.5105	4.0111
391530023	FRM	Ohio	Summit	41.088056	-81.541667	117066	30.3	25	0.5	0.7443	0.847	4.3633	4.3377	7.007	6.0317
391550007	FRM	Ohio	Trumbull	41.214167	-80.7875	122068	31.3	27.7	0.5	1.5491	1.6404	3.5401	9.0327	5.6833	5.1562
400159008	FRM	Oklahoma	Caddo	35.111944	-98.252778	1001	26.2	26.1	0.5	1.3345	0.6447	2.4905	11.0229	7.495	0.0163
400970186	FRM	Oklahoma	Mayes	36.304624	-95.310616	23013	25	23.5	0.5	1.2243	0.7655	2.3396	11.3413	4.0538	2.9642
401010169	FRM	Oklahoma	Muskogee	35.755273	-95.377669	23007	26.3	24.5	0.5	0.8882	0.7558	2.6391	11.4658	4.3228	3.6956
401091037	FRM	Oklahoma	Oklahoma	35.614131	-97.475083	7006	23.7	20.3	0.5	0.6968	0.5422	2.839	7.3925	5.6174	3.234
401159004	FRM	Oklahoma	Ottawa	36.922222	-94.838889	26018	24	20.7	0.5	0.8055	0.6131	2.2133	9.8439	3.7941	2.8741
401359015	FRM	Oklahoma	Sequoyah	35.581174	-94.830059	27006	26.2	24.5	0.5	1.0299	0.6855	2.1705	13.6321	5.2551	1.0512
401431127	FRM	Oklahoma	Tulsa	36.204902	-95.976537	18012	26.3	23.5	0.5	0.8209	0.7194	2.3588	11.7238	5.3819	1.6999
420010001	FRM	Pennsylvania	Adams	39.92002	-77.30968	149061	31.6	28.2	0.5	0.5393	0.6694	4.217	9.1776	8.2292	4.437
420030008	FRM	Pennsylvania	Allegheny	40.465556	-79.961111	129062	35.9	29.8	0.5	2.0831	1.8242	3.2299	13.486	9.8887	1.5323
420030064	FRM	Pennsylvania	Allegheny	40.323611	-79.868333	130061	53.4	50	0.5	1.12	1.7584	2.9472	35.5072	5.8376	2.9152
420030067	FRM	Pennsylvania	Allegheny	40.381944	-80.185556	128061	32.1	24.2	0.5	1.6361	1.39	4.0017	6.3292	13.709	0.2607
420031008	FRM	Pennsylvania	Allegheny	40.618611	-79.727222	131064	36.6	29.9	0.5	1.6797	1.6769	3.885	12.0512	12.0989	1.5656

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420031301	FRM	Pennsylvania	Allegheny	40.4025	-79.860278	130062	39.3	33.9	0.5	2.2328	2.3011	3.8742	14.5063	10.2002	2.263
420033007	FRM	Pennsylvania	Allegheny	40.294444	-79.886667	130061	35.1	27.6	0.5	1.4133	1.5413	3.7079	10.7688	10.9602	1.6608
420070014	FRM	Pennsylvania	Beaver	40.747796	-80.316442	126064	35.9	33	0.5	1.2499	1.6408	3.1178	15.9262	6.5189	2.9095
420110011	FRM	Pennsylvania	Berks	40.38335	-75.9686	157067	33.8	33.4	0.5	0.8333	1.5	5	7.6	6.7667	8.4667
420170012	FRM	Pennsylvania	Bucks	40.107222	-74.882222	165066	33.3	29.3	0.5	0.9496	1.7293	3.6154	12.4043	6.1392	4.5214
420270100	FRM	Pennsylvania	Centre	40.811389	-77.877028	143068	31.5	27.5	0.5	0.4028	0.8436	3.3317	12.5368	6.7571	2.9244
420290100	FRM	Pennsylvania	Chester	39.834461	-75.768242	159062	36.1	31.5	0.5	0.6562	1.0739	4.0932	13.8974	7.3385	4.6942
420410101	FRM	Pennsylvania	Cumberland	40.246528	-77.18675	149064	34.1	32.8	0.5	0.4815	1.1313	3.354	16.4801	4.7296	5.6573
420430401	FRM	Pennsylvania	Dauphin	40.245	-76.844722	151064	35.6	33.1	0.5	0.7259	1.8718	4.3972	11.0481	5.0762	8.5691
420450002	FRM	Pennsylvania	Delaware	39.835556	-75.3725	162063	33.1	29.9	0.5	0.9566	1.1351	3.7951	12.1715	9.0306	2.5375
420490003	FRM	Pennsylvania	Erie	42.14175	-80.038611	126077	31.3	27.6	0.5	0.8344	1.0843	3.697	9.75	6.8264	4.1314
420692006	FRM	Pennsylvania	Lackawanna	41.442778	-75.623056	157077	29.4	24.8	0.5	0.7248	1.4784	2.6556	12.2113	5.2675	2.3528
420710007	FRM	Pennsylvania	Lancaster	40.046667	-76.283333	155064	36.5	35.1	0.5	0.6618	0.9057	4.5632	11.4602	5.7823	8.2207
420910013	FRM	Pennsylvania	Montgomery	40.112222	-75.309167	162066	30	26.1	0.5	0.9727	1.3576	4.2561	6.664	9.5994	3.2261
420950025	FRM	Pennsylvania	Northampton	40.628056	-75.341111	161070	36.4	33	0.5	0.9759	2.1698	3.7869	14.4628	5.9247	5.4109
421010004	FRM	Pennsylvania	Philadelphia	40.008889	-75.097778	164065	36.1	33.3	0.5	1.31	1.9533	3.999	14.2887	6.935	4.8203
421010047	FRM	Pennsylvania	Philadelphia	39.944722	-75.166111	163064	35.5	31.1	0.5	0.9829	1.5172	4.3074	12.3558	9.1035	3.155
421250005	FRM	Pennsylvania	Washington	40.146667	-79.902222	130059	33.2	26.5	0.5	1.3129	1.5403	3.4528	10.7519	9.9124	1.412
421255001	FRM	Pennsylvania	Washington	40.445278	-80.420833	126061	35.6	28.1	0.5	0.712	0.9954	4.2497	9.3035	14.4279	0.8583
421290008	FRM	Pennsylvania	Westmoreland	40.304694	-79.505667	133061	33.6	27.4	0.5	0.7702	1.7209	3.513	10.9976	6.3725	3.8712
421330008	FRM	Pennsylvania	York	39.965278	-76.699444	153062	34.8	31.7	0.5	0.759	1.188	5.775	4.488	8.844	8.514
440030002	FRM	Rhode Island	Kent	41.6156	-71.7199	183085	22.3	19	0.5	0.6768	0.8444	2.5886	7.071	7.3066	0.5456
440070022	FRM	Rhode Island	Providence	41.807949	-71.415	184088	27.2	24.8	0.5	0.5568	1.4089	2.9397	10.0274	6.2805	2.6339
440070026	FRM	Rhode Island	Providence	41.874655	-71.379944	184088	28.6	25.2	0.5	0.6001	1.159	3.0961	10.2	8.4495	1.6987
440070028	FRM	Rhode Island	Providence	41.80933	-71.40743	184088	25.6	22.7	0.5	0.6033	1.0349	2.8537	8.8956	8.2278	1.1051
440071010	FRM	Rhode Island	Providence	41.84092	-71.36094	184088	26.3	24.3	0.5	0.6003	1.3343	2.7969	10.3025	6.3074	2.0927
450250001	FRM	South Carolina	Chesterfield	34.615367	-80.198787	138009	25.1	21.4	0.5	0.4186	0.6725	2.629	9.1906	6.4987	1.2844
450410002	FRM	South Carolina	Florence	34.167636	-79.850404	141005	24.6	21.2	0.5	0.672	0.7034	2.5417	9.486	7.4297	0.3726
450450008	FRM	South Carolina	Greenville	34.838814	-82.402918	121008	29	25.9	0.5	0.278	0.7506	2.0294	17.5418	4.587	1.0842
450450009	FRM	South Carolina	Greenville	34.899141	-82.31307	121008	27.6	24.8	0.5	0.3346	0.8592	2.2966	15.0747	5.4098	0.9528
450630008	FRM	South Carolina	Lexington	34.051017	-81.15495	131002	27.9	26.6	0.5	0.5925	0.8349	1.8584	16.6179	5.0096	0.1885
450730001	FRM	South Carolina	Oconee	34.805261	-83.2377	115006	25.2	20.2	0.5	0.6789	0.7581	2.7267	9.3899	8.2495	0.5126
450790007	FRM	South Carolina	Richland	34.093959	-80.962304	133003	26.5	23.4	0.5	0.725	1.015	2.2475	11.6483	6.09	0.2175
450790019	FRM	South Carolina	Richland	33.991509	-81.024141	132002	27.9	26	0.5	0.7504	1.0452	2.278	13.9896	6.2712	0.1608
450830010	FRM	South Carolina	Spartanburg	34.926839	-82.005211	124009	28.5	22.8	0.5	0.3146	0.847	2.2748	12.6808	5.1788	1.1616
460110002	FRM	South Dakota	Brookings	44.310283	-96.80071	12086	20.5	18	0.5	1.1772	0.5978	2.0275	8.7703	3.9795	1.958
460130003	FRM	South Dakota	Brown	45.4625	-98.486111	1097	16.3	16.3	0.5	0.7391	0.3473	1.8219	6.036	3.2319	2.3525
460290002	FRM	South Dakota	Codington	44.89965	-97.128802	10092	24.2	21.6	0.5	0.6391	0.4241	3.1831	7.6629	3.7079	6.326
460990006	FRM	South Dakota	Minnehaha	43.544289	-96.726435	12079	25.5	22.5	0.5	0.6986	0.5228	4.0864	4.503	3.7684	9.36
470090011	FRM	Tennessee	Blount	35.768431	-83.942123	108015	31.4	25.6	0.5	1.0344	0.9666	3.1704	10.926	11.7221	0.1933
470370023	FRM	Tennessee	Davidson	36.176326	-86.738902	87016	29.4	24.9	0.5	0.8258	1.2853	3.3084	8.5495	7.3452	2.4116
470370036	FRM	Tennessee	Davidson	36.118251	-86.873547	86015	29.1	23.8	0.5	0.803	1.0064	3.157	8.7386	8.1172	1.8802
470450004	FRM	Tennessee	Dyer	36.052871	-89.38227	67012	29.2	24.2	0.5	1.1407	0.9151	3.4197	8.221	9.5605	1.1572
470650031	FRM	Tennessee	Hamilton	34.994555	-85.242872	99006	28.6	25	0.5	0.6868	1.5198	1.7085	17.2755	4.391	0.3474
470651011	FRM	Tennessee	Hamilton	35.233527	-85.181806	99008	27.4	21.7	0.5	0.8164	1.4493	2.8079	9.6374	7.8425	0.7024
470654002	FRM	Tennessee	Hamilton	35.050928	-85.292975	99007	31.5	25.7	0.5	0.852	2.0164	2.0448	16.1596	4.4872	1.3348
470931020	FRM	Tennessee	Knox	36.019186	-83.87381	108017	31.6	27.2	0.5	1.3581	1.9152	2.5143	14.5346	7.157	1.457
470990002	FRM	Tennessee	Lawrence	35.116223	-87.47001	82005	29.9	22.5	0.5	0.6227	0.4822	3.4752	9.1278	12.4317	0
471050108	FRM	Tennessee	Loudon	35.744799	-84.317313	105014	31	24.4	0.5	0.9245	0.7536	3.0167	12.0641	11.1803	0
471071002	FRM	Tennessee	McMinn	35.451111	-84.599167	103011	31.7	23.4	0.5	0.9468	1.0429	3.2675	10.593	10.6181	0.2678
471130006	FRM	Tennessee	Madison	35.651541	-88.809652	72009	30.3	24.2	0.5	0.5662	0.5662	2.533	14.8106	8.9698	0
471192007	FRM	Tennessee	Maury	35.65192	-87.0263	85011	28	22.8	0.5	0.5552	0.7838	3.2386	7.9483	8.6809	1.6007
471251009	FRM	Tennessee	Montgomery	36.514444	-87.327778	82018	32.3	24.9	0.5	0.8888	0.9333	3.4756	8.8736	9.2748	1.7648
471450004	FRM	Tennessee	Roane	35.938695	-84.54372	103015	28.9	21.8	0.5	1.0271	1.0426	2.8382	10.2728	9.7056	0.222
471570014	FRM	Tennessee	Shelby	35.085833	-89.949444	64003	28.5	21.6	0.5	0.9186	1.5689	2.7236	9.4102	7.4721	0.5434
471570047	FRM	Tennessee	Shelby	35.16895	-90.021567	63004	29.3	23.8	0.5	0.8512	1.588	3.5695	7.1303	8.5754	2.2528
471631007	FRM	Tennessee	Sullivan	36.540654	-82.521667	117023	29.9	24.7	0.5	0.7097	0.6552	4.0744	7.2855	12.2397	0

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471650007	FRM	Tennessee	Sumner	36.297778	-86.652778	87017	28.5	24.8	0.5	0.7087	0.6534	3.4932	9.3193	8.9947	1.7376
500030004	FRM	Vermont	Bennington	42.88759	-73.24984	169094	23.3	20.5	0.5	0.5609	0.6542	1.9464	10.8429	6.0251	0.2622
500070012	FRM	Vermont	Chittenden	44.480278	-73.214444	166108	26.1	23.2	0.5	0.4945	0.6701	3.2119	9.0755	6.919	2.6781
500210002	FRM	Vermont	Rutland	43.608056	-72.982778	169101	28.2	27.1	0.5	0.3777	0.488	1.4948	19.5561	3.3054	1.3824
510130020	FRM	Virginia	Arlington	38.8575	-77.059167	152052	29.9	24.9	0.5	1.2192	2.2211	3.5065	8.3095	8.1597	2.1964
510360002	FRM	Virginia	Charles	37.343294	-77.260034	154038	28.7	23.9	0.5	0.6632	0.8956	3.6196	8.464	10.069	0.4224
510410003	FRM	Virginia	Chesterfield	37.436111	-77.450833	152038	28.2	22.4	0.5	0.6235	0.8133	3.3674	7.9864	9.385	0.3626
510590030	FRM	Virginia	Fairfax	38.772778	-77.105556	152051	31.4	25.2	0.5	1.3503	1.9237	3.864	7.4935	10.4457	1.1374
510595001	FRM	Virginia	Fairfax	38.931944	-77.198889	151052	29.6	25	0.5	1.0207	1.8823	3.2771	9.4176	7.3429	2.4313
510870014	FRM	Virginia	Henrico	37.558333	-77.400278	153039	29.4	23.6	0.5	0.7623	0.7341	3.7268	7.8771	11.0675	0
510870015	FRM	Virginia	Henrico	37.670278	-77.5675	151040	27	20.8	0.5	0.6049	0.8213	3.2587	7.0653	9.081	0.3901
511071005	FRM	Virginia	Loudoun	39.024444	-77.49	149052	29.3	22.7	0.5	0.7596	0.9092	3.4973	7.4756	11.0689	1.5891
511390004	FRM	Virginia	Page	38.663333	-78.504722	143048	27.7	21.2	0.5	0.4993	0.3648	3.635	8.8227	9.6838	0
515200006	FRM	Virginia	Bristol City	36.607778	-82.164444	120024	28.2	22.2	0.5	0.519	1.1986	3.2746	9.3224	8.5321	0.7695
516500004	FRM	Virginia	Hampton City	37.003333	-76.399167	161036	29.2	24.2	0.5	0.7629	0.9466	3.5449	8.6622	9.8119	0.4372
516800015	FRM	Virginia	Lynchburg City	37.3605	-79.1883	140035	27.9	20.5	0.5	0.4932	0.7398	3.2332	8.6858	11.1518	0
517100024	FRM	Virginia	Norfolk City	36.857778	-76.301667	162035	34.3	30.8	0.5	0.67	1.4466	3.8188	13.4032	8.7003	2.0376
517700014	FRM	Virginia	Roanoke City	37.256111	-79.985	135033	29.7	25	0.5	0.5196	1.1188	2.5638	13.5876	7.1416	1.1612
518100008	FRM	Virginia	Virginia Beach City	36.841111	-76.181389	163035	33.1	28.2	0.5	0.7469	1.1374	3.8692	11.1169	9.7215	1.317
540030003	FRM	West Virginia	Berkeley	39.448006	-77.964125	145056	31.2	27.8	0.5	0.4385	0.7893	3.5957	11.5179	6.1975	4.6189
540090005	FRM	West Virginia	Brooke	40.341023	-80.596635	125060	37	30.6	0.5	1.9633	2.09	3.99	8.8667	8.2333	3.6417
540090011	FRM	West Virginia	Brooke	40.394583	-80.612017	125060	40.5	37.2	0.5	2.3911	2.5454	4.8594	10.7601	10.0273	4.4352
540110006	FRM	West Virginia	Cabell	38.424133	-82.4259	115040	32.3	26.7	0.5	1.0177	1.6777	3.2318	11.8849	10.045	0.2557
540291004	FRM	West Virginia	Hancock	40.421539	-80.580717	125061	38.1	29.7	0.5	1.4399	1.3627	4.7759	8.8379	13.7339	1.1856
540330003	FRM	West Virginia	Harrison	39.278117	-80.34225	129051	31.2	23.4	0.5	0.8059	1.0734	3.7035	6.7405	10.4466	1.4628
540390010	FRM	West Virginia	Kanawha	38.3456	-81.628317	121041	34.2	26.2	0.5	0.673	1.1724	4.0228	9.8399	14.349	0
540391005	FRM	West Virginia	Kanawha	38.366183	-81.693717	121041	35.8	28.3	0.5	1.2266	1.4858	3.6243	12.1049	11.9426	0
540490006	FRM	West Virginia	Marion	39.481483	-80.134667	130053	31.7	23.5	0.5	0.9081	0.8682	3.7694	7.7427	11.8516	0.7128
540511002	FRM	West Virginia	Marshall	39.915961	-80.733858	125056	33.9	27.8	0.5	0.6423	1.2011	3.4424	11.1423	9.7421	1.2138
540610003	FRM	West Virginia	Monongalia	39.649367	-79.920867	131055	33.7	23.2	0.5	0.9804	0.9669	4.0376	7.6886	13.0612	0.7037
540690010	FRM	West Virginia	Ohio	40.114876	-80.700972	125058	30.6	25.6	0.5	1.1172	1.6758	3.4314	7.6874	7.448	2.6866
540810002	FRM	West Virginia	Raleigh	37.807767	-81.197433	125036	27.6	20.3	0.5	0.5367	0.8494	3.3811	7.0026	12.36	0
541071002	FRM	West Virginia	Wood	39.323533	-81.552367	120050	34	26.2	0.5	1.0047	0.9015	4.1528	8.3553	14.0164	0.9216
550030010	FRM	Wisconsin	Ashland	46.61455	-90.69868	51109	19	17.2	0.5	0.542	0.4323	3.0975	3.0342	4.6718	4.8058
550090005	FRM	Wisconsin	Brown	44.516667	-87.993889	70091	34.7	32.2	0.5	0.2297	0.4416	3.5178	16.9754	4.0374	7.2163
550250047	FRM	Wisconsin	Dane	43.073333	-89.435833	61077	33.9	30.3	0.5	0.9768	0.8043	4.2398	11.1235	4.8599	8.7584
550270007	FRM	Wisconsin	Dodge	43.435	-88.527778	67081	27	24.6	0.5	0.3426	0.4843	3.8153	7.7425	5.3871	6.4465
550410007	FRM	Wisconsin	Forest	45.56498	-88.80859	64100	20.5	18.9	0.5	0.3305	0.3217	2.7499	6.3297	3.7729	4.7417
550430009	FRM	Wisconsin	Grant	42.69215	-90.68637	53073	33.8	30.5	0.5	0.6202	0.6894	4.5869	10.395	4.6064	10.0141
550590019	FRM	Wisconsin	Kenosha	42.504722	-87.8093	73073	30.5	27.6	0.5	0.3335	0.6291	4.8152	6.0513	5.7039	9.4393
550630012	FRM	Wisconsin	La Crosse	43.778	-91.225	49083	31.5	28.4	0.5	0.3915	0.5157	3.2216	14.9326	2.8084	7.5276
550710007	FRM	Wisconsin	Manitowoc	44.138611	-87.616111	73088	27.7	25.7	0.5	0.4996	0.3473	2.6341	13.9399	3.4554	4.8907
550790010	FRM	Wisconsin	Milwaukee	43.016667	-87.933333	72077	36.2	34.1	0.5	0.706	0.7413	5.7539	7.3071	6.3893	11.649
550790026	FRM	Wisconsin	Milwaukee	43.061111	-87.9125	72078	36.6	33.6	0.5	0.7286	0.9191	5.3582	9.6621	5.8041	11.0073
550790043	FRM	Wisconsin	Milwaukee	43.02641	-87.91111	72077	36.4	33.6	0.5	0.7158	0.8765	5.2888	9.6378	5.7582	10.8222
550790059	FRM	Wisconsin	Milwaukee	42.955	-87.934167	72077	32.2	29.1	0.5	1.0557	0.9744	4.6587	7.8826	7.7204	6.4014
550790099	FRM	Wisconsin	Milwaukee	43.039722	-87.920556	72078	36	33.2	0.5	0.69	0.7245	5.6925	6.831	6.3135	11.523
550870009	FRM	Wisconsin	Outagamie	44.306944	-88.395556	67089	32.4	30.6	0.5	0.2233	0.319	3.3495	15.2801	3.3814	7.5603
550890009	FRM	Wisconsin	Ozaukee	43.498056	-87.81	72082	30.3	26.7	0.5	0.9548	0.9462	4.7882	5.3904	5.5081	9.7443
551091002	FRM	Wisconsin	St. Croix	45.124444	-92.6625	39094	24.6	21.7	0.5	0.391	0.5881	3.661	5.326	3.7521	7.8789
551110007	FRM	Wisconsin	Sauk	43.435556	-89.680278	60080	26.2	24.2	0.5	0.8077	0.6542	3.8851	6.0002	5.6608	6.3145
551198001	FRM	Wisconsin	Taylor	45.203889	-90.6	52096	28.7	26.2	0.5	1.0118	0.5751	3.0228	12.193	7.6591	1.2231
551250001	FRM	Wisconsin	Vilas	46.048056	-89.653611	58104	29.2	26.8	0.5	0.8728	0.642	4.0088	8.6738	6.7529	5.2762
551330027	FRM	Wisconsin	Waukesha	43.020278	-88.215	70077	30.6	27.7	0.5	1.4339	0.7532	4.1921	6.4957	6.6096	6.4479

MATS 2.3.1 - Ouput File - 24-hr PM-2.5
2018 Business As Usual Scenario

Year																			
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
10331002	2.7184	0.0101	0.5	0.7347	0.59	2.3407	9.4001	6.745	0.6268	2.1132	0.0101	1.0546	0.7806	0.7641	0.9823	0.7482	0.7895	0.7774	1
10890014	3.3963	0.0177	0.5	0.8649	0.4904	2.4557	8.6163	6.538	0.592	2.3159	0.0177	1.0607	0.7589	0.6977	0.978	0.6869	0.8132	0.6819	1
11030011	3.0245	0	0.5	0.5136	0.6277	3.6219	7.0763	13.6675	0	3.038	0	1	1	0.9995	1	1	1	1.0044	1
50350005	3.2862	0.018	0.5	0.8952	0.9998	2.2183	9.8134	6.3493	0.1947	2.2802	0.018	1.0664	0.697	0.7012	0.9713	0.6939	0.8421	0.6939	1
50450002	1.838	0.057	0.5	2.4504	0.8563	1.6259	11.0227	4.5868	0.0855	1.5452	0.057	1.0302	0.7507	0.8441	0.9825	0.8285	0.7635	0.8407	1
50670001	2.4615	0.0423	0.5	1.1261	0.867	2.36	9.7426	5.9268	0.9677	1.984	0.0423	1.0771	0.751	0.8073	0.9816	0.8017	0.782	0.806	1
51150003	1.4901	0.024	0.5	1.1572	0.6554	1.6222	13.6732	4.0071	0.4813	1.4015	0.024	1.0245	0.7792	0.9246	0.9826	0.9367	0.7702	0.9406	1
51190007	2.1613	0	0.5	2.0062	0.9185	2.0696	13.0168	6.1604	0.0251	2.1593	0	1	1	0.9958	1	1	1	0.9991	1
51310008	1.8015	0	0.5	0.9073	0.5231	2.0829	11.1737	4.8528	1.21	1.6555	0	1.0414	0.7705	0.8985	0.9849	0.9157	0.8198	0.9189	1
51450001	2.2868	0.0136	0.5	0.6826	0.4362	1.8133	12.5578	5.1631	0	1.8943	0.0136	1.0343	0.7637	0.822	0.9817	0.8243	1	0.8284	1
90010010	2.4757	0.0973	0.5	0.9559	1.4405	2.8423	13.7197	6.2767	1.8492	2.0842	0.0973	1.0701	0.7143	0.8699	0.9634	0.8492	0.9813	0.8419	1
90011123	1.6675	0.1086	0.5	0.7598	1.275	2.6689	14.0261	4.8468	3.0652	1.5298	0.1086	1.0479	0.756	0.9444	0.9596	0.9186	1.0064	0.9174	1
90013005	1.9369	0.2487	0.5	0.928	1.6154	3.4316	9.8778	5.53	4.8179	1.7792	0.2487	1.0584	0.7477	0.9391	0.9637	0.9056	0.9917	0.9186	1
90019003	2.0856	0.2448	0.5	0.9643	1.7817	3.7017	7.3172	5.9524	5.221	1.915	0.2448	1.0576	0.7486	0.9426	0.9637	0.9061	0.9918	0.9182	1
90031003	1.607	0.0353	0.5	0.6244	0.9592	2.0476	14.5867	4.4547	1.4902	1.4748	0.0353	1.0354	0.742	0.9338	0.959	0.9203	0.991	0.9177	1
90050005	4.0448	0	0.5	1.367	0.6665	2.9267	4.7653	8.4344	0	3.1229	0	1.068	0.8679	0.7725	0.9849	0.7734	1	0.7721	1
90090026	2.6637	0.0878	0.5	0.8758	1.661	3.2242	11.501	6.8159	2.5734	2.2777	0.0878	1.0571	0.7555	0.8873	0.9627	0.8598	0.9843	0.8551	1
90090027	1.8779	0.0562	0.5	0.7455	1.6692	3.0047	13.6367	5.4344	3.5286	1.685	0.0562	1.051	0.7494	0.9288	0.9534	0.9006	0.983	0.8973	1
90091123	2.5558	0.1087	0.5	0.8722	1.6025	3.1368	12.969	6.3385	2.8171	2.166	0.1087	1.0572	0.7443	0.8824	0.9575	0.8511	0.9796	0.8475	1
90092008	1.7977	0.114	0.5	0.8607	1.8525	3.2017	9.3607	5.2665	4.2884	1.6787	0.114	1.0448	0.7579	0.9471	0.9503	0.9243	0.9804	0.9338	1
90092123	2.3665	0.0754	0.5	0.7803	1.1673	2.8816	13.1102	5.78	2.7689	1.9691	0.0754	1.0391	0.7721	0.887	0.9502	0.8342	1.0386	0.8321	1
90113002	1.8616	0.1845	0.5	0.6617	1.2836	2.6648	10.2153	5.2815	2.6841	1.69	0.1845	1.0319	0.8081	0.935	0.9574	0.913	0.9902	0.9078	1
100010002	2.7459	0.0889	0.5	0.4977	0.534	3.1075	7.6052	7.0187	2.4933	2.2234	0.0889	1.0954	0.7499	0.8446	0.9747	0.8125	0.9363	0.8097	1
100010003	2.96	0.0981	0.5	0.4783	0.4978	3.3103	7.2205	7.5521	2.5871	2.4187	0.0981	1.0862	0.7512	0.8447	0.9737	0.8181	0.9283	0.8171	1
100031007	3.0184	0.3217	0.5	1.188	0.9558	3.6854	4.898	6.8954	4.223	2.4041	0.3217	1.0805	0.7562	0.8587	0.9713	0.7735	1.0949	0.7965	1
100031012	1.8815	0.4267	0.5	1.3921	1.0868	3.5924	6.7686	4.9489	6.0051	1.6872	0.4267	1.0735	0.7377	0.9185	0.964	0.8435	1.014	0.8968	1
100032004	3.0599	0.432	0.5	2.0263	1.3683	4.1931	9.105	7.9407	4.1909	2.6324	0.432	1.0715	0.7328	0.8921	0.9661	0.8538	1.016	0.8603	1
100051002	2.7069	0.086	0.5	0.6438	0.7044	3.0744	9.9605	7.5962	2.04	2.2727	0.086	1.085	0.7372	0.8461	0.9731	0.8289	0.864	0.8396	1
110010041	2.1514	0.2027	0.5	1.0465	1.4679	3.3664	8.8568	5.611	4.508	1.7518	0.2027	1.0709	0.7107	0.8784	0.9613	0.8086	1.0261	0.8143	1
110010042	2.8104	0	0.5	1.4	1.5972	2.7382	9.4148	6.1568	1.9462	2.0506	0	1.0886	0.703	0.7872	0.9659	0.7413	1.0064	0.7296	1
110010043	2.1389	0.3135	0.5	0.955	1.3477	3.5452	7.1265	5.5871	5.1415	1.7777	0.3135	1.0712	0.7103	0.8844	0.9612	0.8084	1.0249	0.8311	1
131390003	3.1894	0.0287	0.5	0.8333	0.8333	3.7833	5.8616	14.223	0	3.1909	0.0287	1	1	0.9975	1	1	1	1.0005	1
170190004	2.573	0.0277	0.5	0.5819	0.5081	4.8511	1.7519	5.1576	10.2542	2.3634	0.0277	1.1069	0.6802	0.9228	0.9742	0.9659	0.8996	0.9185	1
170191001	2.8528	0	0.5	0.982	0.5397	3.447	5.701	6.188	4.2346	2.3428	0	1.0771	0.6769	0.8533	0.9762	0.8239	0.8988	0.8212	1
170310022	1.9301	0.5881	0.5	0.9501	1.0329	3.831	8.8245	5.3584	6.2814	1.8226	0.5881	1.0364	0.6414	0.9359	0.9711	0.9776	0.8895	0.9443	1
170310050	2.3853	0.3238	0.5	0.8969	0.7166	3.2974	8.2269	5.7393	4.0097	2.0743	0.3238	1.0655	0.6028	0.8886	0.9422	0.8879	0.8934	0.8696	1
170310052	2.4499	0.2313	0.5	0.8401	0.6305	4.0697	9.0551	5.5241	6.9019	2.201	0.2313	1.061	0.6186	0.9229	0.9332	0.9274	0.9144	0.8984	1
170310057	2.4477	0.4323	0.5	0.8198	0.5828	4.0969	6.0625	6.6214	6.7408	2.1846	0.4323	1.0789	0.6103	0.91	0.9464	0.8966	0.9094	0.8925	1
170310076	3.067	0.1416	0.5	0.9069	0.772	3.0918	10.5545	6.9408	1.7039	2.3875	0.1416	1.0706	0.6515	0.7736	0.9565	0.7776	0.7573	0.7784	1
170311016	3.0295	0.1761	0.5	0.8762	0.6272	3.0094	13.8715	7.0835	1.6539	2.5031	0.1761	1.0836	0.6022	0.8192	0.951	0.8255	0.7742	0.8262	1
170312001	3.0947	0.0971	0.5	0.8439	0.617	3.304	9.9773	7.106	2.3828	2.5868	0.0971	1.0707	0.6074	0.8523	0.9556	0.8428	0.8934	0.8359	1
170313103	3.034	0.2074	0.5	0.8415	0.7507	3.425	10.5603	7.2263	3.2531	2.5414	0.2074	1.0797	0.7723	0.8631	0.9638	0.8404	0.9103	0.8377	1
170313301	2.1312	0.1813	0.5	0.7784	0.6828	2.8677	11.4984	4.8923	3.5772	1.726	0.1813	1.067	0.6506	0.8087	0.9512	0.8038	0.8213	0.8099	1
170314007	3.2991	0.0504	0.5	0.6179	0.682	3.9647	6.8151	8.6014	2.8147	3.1752	0.0504	1.0764	0.6534	0.9611	0.9545	0.9734	0.9187	0.9625	1
170314201	3.4786	0.0388	0.5	0.4844	0.7081	4.0622	6.7393	9.1229	2.5241	3.3644	0.0388	1.0768	0.6523	0.9628	0.9547	0.973	0.9259	0.9672	1
170434002	2.8095	0.1544	0.5	0.6058	0.5243	3.5123	9.8762	6.3487	4.2031	2.3318	0.1544	1.0828	0.5966	0.8565	0.9524	0.8451	0.8775	0.8299	1
170650002	3.2119	0.0201	0.5	1.2837	0.6182	2.7221	5.9222	6.8859	1.19	2.4142	0.0201	1.0925	0.7071	0.7716	0.9765	0.7553	0.9088	0.7516	1
170831001	2.9077	0.007	0.5	1.1338	0.5062	2.6178	8.5996	6.4549	1.0753	2.3028	0.007	1.0781	0.6855	0.7966	0.9736	0.7882	0.8485	0.792	1
170890003	3.9761	0.1351	0.5	0.9037	0.6419	3.5698	7.9647	8.6665	1.8854	3.108	0.1351	1.0759	0.6003	0.7872	0.9547	0.7839	0.7963	0.7817	1
170890007	1.8723	0.1528	0.5	0.5405	0.485	3.7426	8.0714	4.7056	6.8322	1.7418	0.1528	1.0733	0.6253	0.9308	0.9526	0.9566	0.9051	0.9303	1
170971007	1.9539	0.0688	0.5	0.3214	0.385	3.6005	5.9191	4.5082	6.7288	1.7547	0.0688	1.0698	0.6667	0.8948	0.9484	0.9	0.8902	0.898	1
170990007	1.7296	0.3008	0.5	0.9535	0.7528	3.1824	5.803	4.4292	5.2923	1.5065	0.3008	1.0566	0.6825	0.8637	0.9646	0.8924	0.8345	0.871	1
171110001	2.7336	0.0728	0.5	0.6032	0.5152	3.9343	5.1056	6.7317	5.1492	2.5174	0.0728	1.0703	0.6179	0.9124	0.9529	0.9206	0.8974	0.9209	1
171132003	2.388	0.0531	0.5	0.4657	0.4492	4.5665	2.4554	5.2638	9.1397	2.2022	0.0531	1.097	0.6772	0.9303	0.9741	0.9821	0.8947	0.9222	1
171150013	2.6219	0.0474	0.5	1.0578	0.5626	2.8372	9.0494	5.7825	2.6706	2.0725	0.0474	1.0503	0.6865	0.8091	0.9874	0.7853	0.8786	0.7904	1
171191007	3.6906	0	0.5	1.2582	0.4114	2.8562	15.0078	8.4103	0.1605	2.9716	0	1.0676	0.6344	0.8048	0.9661	0.8022	0.6822	0.8052	1
171192009	3.2407	0.009	0.5	1.133	0.5388	2.8508	10.6665	7.4554	1.0151	2.5412	0.009	1.0667	0.6743	0.7946	0.9784	0.7839	0.8711	0.7841	1

MATS 2.3.1 - Ouput File - 24-hr PM-2.5
2018 Business As Usual Scenario

Year																				
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt	
171193007	2.6588	0.0176	0.5	0.8698	0.4973	3.4454	8.9806	6.7712	3.3127	2.3105	0.0176	1.0586	0.6767	0.8809	0.9744	0.8867	0.866	0.869	1	
171430037	2.1432	0.1142	0.5	0.5206	0.4672	4.0898	5.2587	5.0264	7.7327	1.9517	0.1142	1.0736	0.6723	0.9213	0.9683	0.9909	0.8693	0.9106	1	
171570001	1.7544	0.0135	0.5	0.592	0.4321	2.9951	7.3208	4.9956	4.095	1.5818	0.0135	1.0959	0.7226	0.906	0.9682	0.916	0.8941	0.9016	1	
171613002	2.8993	0.2701	0.5	0.7571	0.3906	2.9189	5.869	5.9412	2.5517	2.1895	0.2701	1.0671	0.6515	0.7702	0.9683	0.7582	0.7995	0.7552	1	
171630010	2.1711	0.0277	0.5	0.7326	0.3713	3.1191	9.9346	5.9769	3.4672	1.9858	0.0277	1.0625	0.6511	0.9142	0.9553	0.9377	0.8582	0.9146	1	
171634001	2.5872	0.0282	0.5	1.0389	0.3773	2.7942	10.454	6.414	2.0791	2.1977	0.0282	1.0877	0.6488	0.8529	0.9673	0.8515	0.8404	0.8494	1	
171670012	3.0993	0.0172	0.5	0.8372	0.4526	4.0927	4.5885	6.8729	5.6242	2.5987	0.0172	1.1123	0.6984	0.8643	0.9831	0.8598	0.8642	0.8385	1	
171971002	2.7215	0.185	0.5	0.8661	0.6862	4.0138	8.3179	6.725	5.2763	2.3936	0.185	1.0694	0.6229	0.8925	0.9526	0.8952	0.8866	0.8795	1	
171971011	1.779	0.468	0.5	0.8128	0.9104	3.4902	4.7995	4.8224	5.816	1.6568	0.468	1.0679	0.6772	0.9291	0.9589	0.9556	0.9019	0.9313	1	
172010013	2.6421	0.0831	0.5	0.6119	0.4255	3.5892	7.2055	5.6083	5.5518	2.2385	0.0831	1.0619	0.6742	0.8963	0.9635	0.8519	0.9501	0.8472	1	
180030004	2.079	0.0891	0.5	0.3808	0.4184	4.2126	8.3908	6.2423	6.4543	2.0096	0.0891	1.0684	0.6708	0.9456	0.9742	0.9914	0.898	0.9666	1	
180190006	2.3248	0.0217	0.5	0.7193	0.7256	4.172	9.6011	6.7871	5.718	2.1392	0.0217	1.0757	0.7009	0.9119	0.966	0.9249	0.8922	0.9202	1	
180350006	3.4236	0.0368	0.5	0.7753	0.3522	3.1766	6.3786	7.6833	1.9187	2.7417	0.0368	1.0664	0.6724	0.8238	0.977	0.8106	0.8788	0.8008	1	
180370005	3.4515	0.1075	0.5	0.4027	0.5379	3.9767	5.7946	8.0657	3.5392	2.7675	0.1075	1.1296	0.7371	0.8323	0.9973	0.8208	0.853	0.8018	1	
180431004	2.8694	0.0291	0.5	1.1012	0.7481	3.1407	8.3493	6.9429	2.4072	2.3145	0.0291	1.0818	0.6925	0.8371	0.9765	0.8122	0.9238	0.8066	1	
180670003	3.018	0.175	0.5	0.9912	0.6298	3.906	4.7053	7.0086	4.715	2.5015	0.175	1.0601	0.6729	0.8619	0.975	0.8541	0.8777	0.8288	1	
180830004	3.6797	0.0139	0.5	0.579	0.4385	2.7597	9.2452	7.2372	0.733	2.5925	0.0139	1.1436	0.7104	0.7207	0.9943	0.7097	0.8884	0.7045	1	
180890006	2.5091	0.5899	0.5	1.2306	1.3809	3.5337	8.0829	7.1954	3.4705	2.2802	0.5899	1.0319	0.6335	0.898	0.9771	0.9186	0.8533	0.9088	1	
180890022	1.5487	2.4293	0.5	1.7447	2.2157	2.9753	8.9164	5.1322	3.6232	1.5572	2.4293	1.064	0.6694	0.9606	0.9755	1.006	0.8904	1.0055	1	
180890026	2.8942	0.4408	0.5	1.101	1.31	2.9708	11.2877	7.5709	1.6006	2.482	0.4408	1.0834	0.6482	0.8556	0.9778	0.8567	0.8539	0.8576	1	
180890027	2.8761	0.4457	0.5	1.0723	1.1416	3.0446	7.3271	7.5651	1.8684	2.4468	0.4457	1.0661	0.6355	0.8531	0.9723	0.8518	0.8599	0.8507	1	
180890031	4.225	0.3404	0.5	1.2025	1.5512	3.8429	6.3768	10.763	0	3.9328	0.3404	1.0296	0.6488	0.9308	0.9723	0.928	1	0.9308	1	
180892004	2.9659	0.3928	0.5	1.0306	0.8427	3.3364	8.0717	8.5151	1.996	2.6755	0.3928	1.0361	0.6455	0.8969	0.9844	0.9055	0.8533	0.9021	1	
180892010	3.7716	0.2694	0.5	0.9045	1.0098	3.1403	9.0054	9.7828	0	3.3859	0.2694	1.042	0.6747	0.8967	0.9929	0.8954	1	0.8977	1	
180910011	3.7699	0.1125	0.5	0.987	1.6072	3.0024	7.0473	9.0433	0	3.261	0.1125	1.0963	0.6967	0.8676	0.9901	0.8641	1	0.865	1	
180950009	3.1144	0.0558	0.5	0.8216	0.4064	4.0514	4.6688	7.6436	4.7137	2.7165	0.0558	1.0616	0.6621	0.8852	0.9736	0.8945	0.87	0.8723	1	
180970043	2.7062	0.0333	0.5	0.6886	0.7224	4.2464	9.7467	7.2088	5.6101	2.4851	0.0333	1.0535	0.6624	0.9116	0.9729	0.9379	0.872	0.9183	1	
180970066	3.9272	0.0215	0.5	0.7508	0.7724	3.8765	8.6128	9.869	1.7506	3.2523	0.0215	1.0464	0.652	0.8336	0.9759	0.8224	0.8584	0.8281	1	
180970078	3.1383	0.0314	0.5	0.76	0.7748	4.2941	7.2388	8.4031	4.3298	2.8444	0.0314	1.0484	0.6584	0.9041	0.9728	0.9174	0.8681	0.9064	1	
180970081	3.4318	0.032	0.5	0.8509	0.7127	3.8746	8.6852	8.2458	3.1423	2.9176	0.032	1.0435	0.6526	0.8643	0.9705	0.8608	0.8705	0.8502	1	
180970083	3.4952	0.0314	0.5	0.8631	0.7145	3.8886	7.922	8.3504	3.0662	2.9634	0.0314	1.0431	0.6522	0.8608	0.9707	0.857	0.8707	0.8478	1	
181270024	2.4992	1.5163	0.5	1.4289	1.6207	3.2863	7.2473	7.1751	2.1849	2.4393	1.5163	1.0494	0.6441	0.9516	0.97	0.9794	0.8644	0.976	1	
181410014	2.7468	0.0454	0.5	0.6212	0.4989	3.2621	9.4759	6.3033	3.4302	2.4515	0.0454	1.064	0.6855	0.9039	0.9767	0.9116	0.8913	0.8925	1	
181470009	3.1389	0.0807	0.5	0.5773	0.4775	4.1191	3.4793	7.9462	4.1347	2.7142	0.0807	1.1363	0.7274	0.8803	0.9879	0.8865	0.8629	0.8647	1	
181570008	2.7798	0.3	0.5	0.9268	0.7695	3.5951	6.538	6.4201	4.3884	2.3185	0.3	1.0519	0.692	0.8681	0.971	0.8691	0.8663	0.834	1	
181630006	2.8304	0.0089	0.5	1.0677	0.4844	2.3815	13.2407	6.0325	1.032	2.138	0.0089	1.1134	0.6883	0.7772	0.9916	0.756	0.9996	0.7554	1	
181630016	2.5781	0.0087	0.5	0.9739	0.5023	3.1028	9.9709	6.4757	2.8752	2.1987	0.0087	1.1098	0.696	0.871	0.9905	0.8555	0.8996	0.8528	1	
181670018	2.7905	0.0173	0.5	0.7061	0.5046	3.6009	6.2533	6.3151	4.534	2.2946	0.0173	1.089	0.725	0.8538	0.9894	0.8572	0.845	0.8223	1	
181670023	2.4337	0.0547	0.5	0.5849	0.6317	4.0714	4.9467	6.4232	5.9384	2.1653	0.0547	1.0893	0.7264	0.8929	0.9898	0.9276	0.8475	0.8897	1	
190130008	2.1408	0.1164	0.5	0.6936	0.4484	3.1307	8.3619	4.2754	5.3574	1.8149	0.1164	1.0412	0.6656	0.8539	0.9431	0.8881	0.8233	0.8478	1	
190450021	2.1216	0.1904	0.5	0.4903	0.3613	4.0106	5.3528	4.5442	8.0946	1.9266	0.1904	1.0603	0.6992	0.9158	0.9507	1.0004	0.8651	0.9081	1	
191032001	2.3924	0.0712	0.5	0.7321	0.4026	2.8784	10.7612	5.425	2.9637	2.0391	0.0712	1.0577	0.6681	0.8461	0.969	0.8635	0.8043	0.8523	1	
191130037	2.2052	0.1696	0.5	0.3025	0.2301	3.9195	2.6199	3.9333	8.6327	1.9476	0.1696	1.0403	0.6783	0.8985	0.9401	1.0019	0.8502	0.8832	1	
191370002	2.0083	0	0.5	0.9848	0.417	2.741	5.5956	4.0576	4.3315	1.6641	0	1.0599	0.6923	0.8439	0.9742	0.8653	0.8214	0.8286	1	
191390015	2.6616	0.242	0.5	0.5506	0.437	4.9784	7.6109	5.4436	10.2968	2.4023	0.242	1.062	0.7024	0.9232	0.9573	1.0095	0.871	0.9026	1	
191471002	1.9449	0.0299	0.5	0.893	0.3525	2.0481	8.6242	3.6541	2.5072	1.4836	0.0299	1.0536	0.6817	0.7813	0.9686	0.7718	0.7963	0.7628	1	
191530030	2.0154	0.1671	0.5	0.9383	0.3446	2.1507	10.3923	4.8401	1.4921	1.6701	0.1671	1.0491	0.6375	0.8327	0.9564	0.8459	0.7634	0.8287	1	
191532510	1.9939	0.1254	0.5	0.8111	0.3144	2.6913	6.3888	4.0881	4.0707	1.6882	0.1254	1.0355	0.6077	0.8563	0.9436	0.8927	0.8163	0.8467	1	
191550009	1.635	0.0197	0.5	1.9463	0.5209	1.647	13.2677	4.2862	0.3157	1.5074	0.0197	1.1365	0.6662	0.9024	0.9744	0.913	0.6951	0.922	1	
191630015	2.3517	0.249	0.5	0.5206	0.4078	4.516	3.506	5.1854	9.0101	2.1601	0.249	1.0453	0.67	0.9274	0.9457	1.0186	0.8731	0.9185	1	
191630018	2.3593	0.2469	0.5	0.5162	0.4044	4.502	3.3467	5.1696	8.982	2.1534	0.2469	1.0453	0.67	0.9272	0.9457	1.0186	0.8731	0.9127	1	
191630019	2.1798	0.3437	0.5	0.7084	0.4229	3.3281	11.4931	4.8463	5.2587	1.8617	0.3437	1.0545	0.6549	0.8621	0.9615	0.8867	0.8374	0.8541	1	
191770006	2.163	0	0.5	0.569	0.4966	3.6591	3.8356	3.1747	8.5924	1.8391	0	1.047	0.7046	0.8576	0.9597	0.8952	0.8414	0.8502	1	
191930017	1.7439	0	0.5	0.9382	0.4073	2.9146	9.8233	2.8619	6.4626	1.4417	0	1.0702	0.6923	0.8517	0.9747	0.9632	0.7976	0.8267	1	
200910007	1.2433	0.045	0.5	0.8927	0.562	2.2356	6.1707	3.0871	4.0639	1.1357	0.045	1.0644	0.6705	0.9077	0.9573	0.9539	0.8718	0.9135	1	
200910010	1.2078	0.0366	0.5	0.8029	0.4699	2.2098	5.2621	2.9072	4.0813	1.0946	0.0366	1.0701	0.7132	0.9079	0.9617	0.9456	0.8746	0.9063	1	
201070002	1.6391	0.0132	0.5	1.2259	0.5556	2.1451	6.4435	4.2719	2.2145	1.4426	0.0132	1.0389	0.7465	0.8764	0.979	0.8984	0.833	0.8801	1	

MATS 2.3.1 - Ouput File - 24-hr PM-2.5
2018 Business As Usual Scenario

Year																			
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
201730008	1.7247	0	0.5	0.5406	0.2588	3.1792	3.2919	3.5937	6.3158	1.4867	0	1.0281	0.7689	0.8737	0.9721	0.9492	0.8272	0.862	1
201730009	1.6531	0.2304	0.5	0.5918	0.1645	2.5679	5.4251	4.5524	3.9889	1.3758	0.2304	1.033	0.7689	0.8491	0.9786	0.8465	0.8272	0.8323	1
201730010	1.5901	0.2272	0.5	0.5625	0.1518	2.4644	5.8045	4.373	3.8256	1.3208	0.2272	1.033	0.7689	0.8491	0.9784	0.8464	0.8272	0.8307	1
201910002	1.4843	0	0.5	0.5273	0.2625	2.7479	4.88	3.1937	5.3567	1.2849	0	1.0373	0.8069	0.8719	0.9836	0.9462	0.8207	0.8657	1
202090021	1.1846	0.0581	0.5	0.8129	0.712	2.056	8.6878	3.0407	3.6704	1.0826	0.0581	1.0546	0.6952	0.9067	0.9597	0.9619	0.8559	0.9139	1
202090022	1.3712	0.0397	0.5	1.0308	0.5903	1.9152	8.0209	3.3881	2.5499	1.2197	0.0397	1.0537	0.674	0.8986	0.9621	0.9239	0.8598	0.8895	1
210130002	1.8152	0	0.5	0.9688	1.1466	1.6253	13.217	4.3743	0.6218	1.4819	0	1.1014	0.7551	0.8333	0.9785	0.8252	0.9643	0.8164	1
210190017	2.9491	0.0069	0.5	0.6025	0.7471	2.6113	7.4761	8.8289	0.3701	2.097	0.0069	1.0639	0.798	0.7148	0.9852	0.6949	1.0266	0.7111	1
210290006	3.0247	0.0263	0.5	0.9429	0.8205	3.4315	7.6027	7.1274	3.1829	2.3263	0.0263	1.1306	0.7243	0.8261	0.9824	0.7781	0.9528	0.7691	1
210430500	2.6683	0.0383	0.5	0.8982	0.9834	2.5708	5.2437	6.5265	1.3261	2.0203	0.0383	1.1715	0.7784	0.7906	0.9928	0.749	0.9715	0.7571	1
210470006	3.9842	0.0087	0.5	1.3186	0.609	3.6301	4.7569	9.6147	1.6969	3.0541	0.0087	1.1242	0.7026	0.7744	0.9805	0.7655	0.7782	0.7666	1
210590005	3.0369	0.041	0.5	0.4626	0.498	3.4609	5.7064	8.1831	2.4762	2.3992	0.041	1.156	0.7325	0.819	0.9982	0.7847	0.8913	0.79	1
210670012	2.8091	0.0393	0.5	0.7068	0.5763	3.3366	5.5143	6.654	3.7432	2.1796	0.0393	1.1138	0.6864	0.8228	0.97	0.7742	0.9162	0.7759	1
210670014	2.8353	0.0321	0.5	0.6609	0.5501	3.1829	7.6955	6.0922	3.4878	2.1424	0.0321	1.1345	0.6889	0.8083	0.9754	0.7639	0.916	0.7556	1
210730006	3.6695	0.0196	0.5	0.7719	0.6418	2.6552	6.5937	6.7888	1.2252	2.4093	0.0196	1.1466	0.7102	0.6932	0.9855	0.6571	1.0082	0.6566	1
210930006	2.4522	0.0332	0.5	0.8733	0.7933	3.9446	4.5584	7.2172	4.4604	2.2215	0.0332	1.1234	0.7308	0.9148	0.9812	0.9061	0.9325	0.9059	1
211010014	3.1628	0.0155	0.5	1.6528	0.478	2.8229	8.3989	7.0834	1.3071	2.5253	0.0155	1.1234	0.7046	0.816	0.9907	0.7962	0.9672	0.7984	1
211110043	3.6534	0.0217	0.5	1.3286	0.7116	2.78	9.9655	7.4188	0.7088	2.6127	0.0217	1.1207	0.6855	0.7361	0.9784	0.7214	0.9396	0.7152	1
211110044	3.0867	0.0119	0.5	0.9453	0.7727	3.3813	8.3214	7.4154	2.5908	2.4121	0.0119	1.0938	0.7072	0.8224	0.9715	0.7903	0.9076	0.7815	1
211110048	3.4166	0	0.5	0.6682	0.7121	3.0906	8.9841	7.4378	2.1398	2.4209	0	1.1131	0.693	0.7494	0.9792	0.7107	0.9076	0.7086	1
211110051	4.9349	0.0305	0.5	1.2385	0.7218	2.8895	5.0276	8.7704	0	3.1371	0.0305	1.1436	0.6828	0.6367	0.9792	0.6367	1	0.6357	1
211170007	2.6299	0.0214	0.5	0.4899	0.6094	3.4961	5.8409	7.3202	3.7956	2.1255	0.0214	1.1617	0.7106	0.8436	0.979	0.7962	0.9019	0.8082	1
211451004	3.4385	0.0242	0.5	0.8761	0.625	2.1272	12.6814	6.5127	0	2.2353	0.0242	1.1079	0.7198	0.657	0.9849	0.6492	1	0.6501	1
211510003	2.9456	0.017	0.5	0.7536	0.7311	3.3316	4.6545	6.7674	3.4694	2.2388	0.017	1.1491	0.7198	0.804	0.9865	0.7696	0.8759	0.76	1
211830032	3.5786	0.0322	0.5	0.7241	0.6314	3.637	5.0677	8.524	2.5277	2.7918	0.0322	1.1744	0.7298	0.8136	0.9955	0.7881	0.8825	0.7801	1
211950002	2.5828	0.0241	0.5	0.7694	1.3342	2.0038	8.6285	5.6654	0.4077	1.9631	0.0241	1.1018	0.8453	0.7695	0.9858	0.7561	0.9626	0.7601	1
230010011	1.4656	0	0.5	0.4712	0.5959	1.3751	13.1506	4.2588	0.3229	1.2513	0	1.02	0.8554	0.8619	0.9759	0.8438	0.9965	0.8538	1
230050015	1.2974	0.0052	0.5	0.4172	0.4336	1.2146	11.1747	4.2445	0.0739	1.0832	0.0052	1.0409	0.7889	0.8325	0.9782	0.8319	1.0221	0.8349	1
230090103	2.2975	0	0.5	0.5988	0.5302	2.0217	5.2017	6.1666	0.4019	1.9219	0	1.0583	0.8396	0.8513	0.9747	0.838	1.092	0.8365	1
230110016	1.0399	0	0.5	0.3614	0.5408	1.0761	11.6833	2.8792	0.5228	0.9331	0	1.0181	0.8496	0.9241	0.9601	0.9042	1.0242	0.8973	1
230172011	0.9426	0	0.5	0.3331	0.4348	0.8751	15.358	2.4848	0.2764	0.8221	0	1.0349	0.8481	0.8817	0.9584	0.8746	0.9296	0.8722	1
230190002	1.6966	0	0.5	0.7624	1.0701	1.7459	8.9297	4.4905	0.8695	1.4913	0	1.0304	0.8458	0.9002	0.9611	0.8847	1.007	0.879	1
240031003	2.7488	0.0417	0.5	1.0314	1.0872	3.904	7.669	8.0093	5.0909	2.3164	0.0417	1.0937	0.7474	0.8885	0.9739	0.7873	1.0958	0.8427	1
240051007	3.8647	0.1033	0.5	1.0458	1.0684	3.5556	7.4245	8.7464	1.9673	3.0706	0.1033	1.0767	0.7333	0.8332	0.9762	0.7963	1.1134	0.7945	1
240053001	2.0636	0.1572	0.5	0.7948	1.2938	2.8735	13.8279	5.54	3.0826	1.7066	0.1572	1.063	0.7373	0.8834	0.9638	0.8335	1.021	0.827	1
240251001	2.4211	0.3645	0.5	0.7759	0.9727	3.5106	5.7445	6.6517	4.2382	2.0786	0.3645	1.0645	0.7784	0.9365	0.9678	0.8632	1.1	0.8585	1
240313001	2.895	0.0699	0.5	0.9551	0.7525	2.734	7.6093	7.0546	1.7701	2.1547	0.0699	1.0846	0.7234	0.7872	0.9758	0.7361	1.0846	0.7443	1
240338003	2.5486	0.1553	0.5	1.034	1.1455	3.2512	6.8989	7.2476	3.6514	1.9021	0.1553	1.0966	0.7188	0.8109	0.9759	0.7097	1.0676	0.7463	1
240430009	1.9803	0.1728	0.5	0.7128	0.8732	3.3831	9.8736	5.3623	4.8634	1.7039	0.1728	1.104	0.7678	0.9072	0.9821	0.8362	1.0311	0.8604	1
245100006	3.0251	0.1166	0.5	0.917	1.0685	3.2249	9.7138	7.4773	2.2933	2.5077	0.1166	1.0587	0.7376	0.8811	0.9663	0.8376	1.1133	0.8289	1
245100007	2.4873	0.091	0.5	1.2091	1.5248	3.7413	7.963	6.931	4.8469	2.1695	0.091	1.049	0.7181	0.9488	0.9616	0.8688	1.1174	0.8722	1
245100008	3.7787	0.0677	0.5	0.8788	0.8841	3.4081	11.4968	9.2565	1.1601	3.079	0.0677	1.058	0.7525	0.8408	0.974	0.8185	1.1061	0.8148	1
245100040	2.1842	0.0978	0.5	0.921	1.276	3.3908	12.7879	6.3951	4.3271	1.9923	0.0978	1.0463	0.7675	0.9721	0.9638	0.904	1.1061	0.9122	1
250035001	1.4184	0	0.5	0.5341	0.6479	1.6541	15.5509	3.8245	1.1234	1.2776	0	1.0673	0.8229	0.9124	0.9805	0.9049	0.9676	0.9008	1
250051004	2.727	0.1602	0.5	0.9403	0.7036	2.1689	8.3927	5.9881	0.6097	2.0481	0.1602	1.266	0.7939	0.7799	0.9869	0.7593	1.0706	0.7511	1
250092006	2.3886	0.0933	0.5	0.6255	0.9339	2.7953	7.9401	6.1842	2.4441	2.0429	0.0933	1.0326	0.8185	0.904	0.9561	0.8539	1.0708	0.8553	1
250095005	2.2843	0.087	0.5	0.5424	0.7405	2.2683	8.6857	6.8515	0.9073	1.8921	0.087	1.0273	0.8174	0.8481	0.9676	0.8255	1.0974	0.8283	1
250096001	2.563	0.0739	0.5	0.6116	0.7509	2.3375	10.1997	6.6057	0.9117	2.094	0.0739	1.0324	0.8162	0.842	0.9663	0.8156	1.0916	0.817	1
250130008	1.4261	0.0255	0.5	0.4432	0.9522	2.2546	11.8922	4.1328	3.0291	1.2957	0.0255	1.0237	0.8128	0.9418	0.953	0.9066	1.0166	0.9086	1
250130016	2.2921	0.0205	0.5	0.5604	0.7922	2.2205	15.4803	5.4572	1.1898	1.8919	0.0205	1.0398	0.7773	0.8567	0.9604	0.8314	1.0075	0.8254	1
250132009	1.2975	0.0288	0.5	0.415	0.8311	1.9959	16.4921	3.7767	2.5328	1.1759	0.0288	1.0281	0.8007	0.9483	0.9533	0.9096	1.0097	0.9063	1
250170009	2.3466	0.0676	0.5	0.5276	0.6121	2.1119	5.2598	6.2381	0.777	1.8375	0.0676	1.0316	0.8046	0.8072	0.9625	0.7812	1.0886	0.783	1
250230004	2.7077	0.1584	0.5	0.6608	0.9255	2.8677	7.7142	6.727	2.228	2.1493	0.1584	1.0453	0.8145	0.845	0.9553	0.7971	1.0408	0.7938	1
250250002	2.4991	0.0655	0.5	0.8055	0.8636	2.6742	11.8304	6.4065	1.1478	2.25	0.0655	1.037	0.7959	0.9102	0.9509	0.8948	1.051	0.9003	1
250250027	2.4646	0.0605	0.5	0.7873	0.8166	2.5692	10.2737	6.2485	0.9957	2.2066	0.0605	1.0376	0.7947	0.9108	0.9502	0.8939	1.0505	0.8953	1
250250042	2.3715	0.0855	0.5	0.6122	0.8861	2.8731	10.3656	6.1628	2.5526	2.0694	0.0855	1.0257	0.8108	0.9157	0.949	0.8729	1.0599	0.8726	1
250250043	1.4048	0.0712	0.5	0.6082	1.0441	2.333	12.9088	4.2295	2.7632	1.3251	0.0712	1.0215	0.8051	0.968	0.9428	0.9346	1.0346	0.9433	1

MATS 2.3.1 - Ouput File - 24-hr PM-2.5
2018 Business As Usual Scenario

Year																			
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
250270016	2.257	0.0955	0.5	0.6651	0.8453	2.4672	11.0846	6.0956	1.8292	1.7793	0.0955	1.0427	0.7975	0.8336	0.9538	0.7827	1.041	0.7884	1
250270023	2.0977	0.0841	0.5	0.6344	0.806	2.2699	11.9323	5.2485	1.6532	1.7551	0.0841	1.0456	0.793	0.881	0.9532	0.843	1.041	0.8367	1
260050003	1.9989	0.049	0.5	0.3215	0.3921	3.8819	8.5738	4.7449	7.3349	1.8343	0.049	1.1061	0.6942	0.9136	0.9758	0.9252	0.9082	0.9176	1
260170014	1.4903	0.1308	0.5	0.8271	0.4367	2.8173	8.4092	3.8552	4.9678	1.3806	0.1308	1.0661	0.6739	0.9328	0.9602	0.9438	0.9181	0.9263	1
260210014	3.5022	0.17	0.5	1.0217	0.6497	3.4827	5.4654	7.7638	2.8138	2.8228	0.17	1.0818	0.6903	0.834	0.9753	0.805	0.9354	0.806	1
260490021	1.8688	0.2422	0.5	1.4133	0.5636	3.5759	4.4785	4.8037	6.329	1.7276	0.2422	1.0815	0.6202	0.9252	0.9484	0.9529	0.8994	0.9244	1
260650012	2.6113	0.1214	0.5	1.439	0.5719	3.1584	6.4092	6.1051	3.6401	2.2181	0.1214	1.0815	0.6375	0.8641	0.9556	0.8559	0.8779	0.8494	1
260770008	1.7496	0.1656	0.5	0.871	0.7984	2.6458	10.467	4.8176	3.8893	1.5517	0.1656	1.0739	0.69	0.8818	0.9661	0.8892	0.8692	0.8869	1
260810020	1.8282	0.0554	0.5	0.3947	0.3933	3.7543	8.277	4.4665	7.1704	1.7462	0.0554	1.096	0.5916	0.9612	0.9486	0.9832	0.9413	0.9551	1
260990009	2.6627	0.1638	0.5	2.2151	0.5618	3.4983	6.7614	6.2707	4.285	2.2058	0.1638	1.1179	0.6152	0.8813	0.9501	0.849	0.9235	0.8284	1
261130001	1.2779	0.02	0.5	0.2584	0.3956	1.964	7.5882	3.223	3.2828	1.075	0.02	1.0786	0.7076	0.8407	0.9695	0.8586	0.8262	0.8412	1
261150005	3.1497	0.0299	0.5	0.4798	0.4617	3.8162	7.7839	7.8451	3.8302	2.7449	0.0299	1.0868	0.6696	0.8866	0.9597	0.893	0.8805	0.8715	1
261210040	1.8678	0.0631	0.5	0.3853	0.4594	3.5939	7.3258	4.3801	6.8346	1.706	0.0631	1.0892	0.7013	0.9152	0.9732	0.9291	0.9034	0.9134	1
261250001	3.0206	0.1097	0.5	2.1174	0.5965	4.0574	5.7811	7.3472	5.0702	2.6054	0.1097	1.0823	0.5965	0.8973	0.9434	0.8839	0.9078	0.8626	1
261390005	1.9944	0.0554	0.5	0.4272	0.462	4.1121	6.7705	4.9535	7.8254	1.9298	0.0554	1.1017	0.6672	0.964	0.9661	0.9772	0.9512	0.9676	1
261470005	3.0339	0.2031	0.5	2.0734	0.6953	3.7428	10.567	7.3403	4.0431	2.5494	0.2031	1.0762	0.7222	0.8792	0.9658	0.8529	0.9184	0.8403	1
261610008	1.6815	0.059	0.5	0.3124	0.4152	2.9921	11.2296	3.4261	5.8875	1.3969	0.059	1.0589	0.6397	0.8314	0.9376	0.8667	0.808	0.8308	1
261630001	2.0942	0.0721	0.5	0.7616	0.6273	4.0383	8.5667	5.3439	7.0911	1.9148	0.0721	1.0871	0.6548	0.9167	0.9451	0.9509	0.8842	0.9144	1
261630015	3.0092	0.0795	0.5	2.6236	0.7294	4.2224	8.0363	7.8517	5.2168	2.6982	0.0795	1.0634	0.6861	0.9192	0.9594	0.9134	0.9093	0.8967	1
261630016	2.9451	0.0958	0.5	2.7816	0.6472	3.8317	7.4426	6.8755	4.7168	2.4697	0.0958	1.0771	0.6678	0.8785	0.9607	0.8581	0.9093	0.8386	1
261630019	2.7954	0.1209	0.5	2.8018	0.5776	3.698	8.8721	6.5429	4.6386	2.3255	0.1209	1.0913	0.6001	0.878	0.9483	0.8511	0.9096	0.8319	1
261630025	2.9252	0.1454	0.5	1.5815	0.5564	3.8217	6.9755	7.0218	4.5719	2.5181	0.1454	1.0948	0.6182	0.8953	0.9483	0.8779	0.9193	0.8609	1
261630033	3.1863	0.0858	0.5	2.9598	0.7708	4.4691	8.9165	8.424	5.458	2.8441	0.0858	1.0634	0.6863	0.9148	0.9594	0.912	0.9093	0.8926	1
261630036	2.1226	0.0827	0.5	0.8496	0.5693	4.2873	5.1028	5.5269	7.7323	2.024	0.0827	1.1007	0.6884	0.9541	0.9641	1.0075	0.9107	0.9535	1
261630039	3.103	0.1131	0.5	2.905	0.7093	4.2409	4.7024	7.3383	5.5173	2.6351	0.1131	1.0769	0.6689	0.887	0.9618	0.8705	0.9093	0.8492	1
270370470	1.7929	0.0777	0.5	0.7157	0.5379	2.7089	6.3332	4.0489	4.1827	1.5724	0.0777	1.0328	0.6756	0.8559	0.952	0.9031	0.8062	0.877	1
270530961	1.7743	0.0957	0.5	0.4614	0.6239	3.0987	3.7608	3.9688	5.6819	1.547	0.0957	1.0284	0.7294	0.8638	0.9465	0.9417	0.8067	0.8719	1
270530963	1.845	0.0675	0.5	0.3444	0.3279	3.1328	4.4343	2.6117	7.4256	1.5628	0.0675	1.0205	0.7286	0.8757	0.9475	0.9921	0.8313	0.847	1
270531007	1.8986	0.1058	0.5	0.493	0.5922	3.3284	5.4853	4.1059	6.2949	1.6634	0.1058	1.0212	0.6803	0.8741	0.9408	0.9564	0.8183	0.8761	1
271230866	2.3014	0.1379	0.5	0.4136	0.486	3.5285	5.0066	4.3843	6.5975	2.0292	0.1379	1.0293	0.7007	0.8735	0.9429	0.9329	0.8316	0.8817	1
271230868	2.139	0.1013	0.5	0.8158	0.5623	3.0523	8.2749	4.7669	4.4323	1.9283	0.1013	1.0238	0.6949	0.886	0.9438	0.9318	0.8266	0.9015	1
271230871	2.9003	0.1892	0.5	0.4826	0.6716	4.3342	3.7691	6.7359	6.3136	2.6572	0.1892	1.0258	0.7033	0.8908	0.9454	0.9463	0.8255	0.9162	1
271377001	1.2243	0	0.5	0.757	0.3335	1.2921	7.6501	2.8443	1.0613	1.0129	0	0.9758	0.7609	0.8419	0.947	0.8367	0.8577	0.8274	1
271377550	2.2668	0.0071	0.5	0.8867	0.3807	2.5916	4.6797	5.325	2.1291	2.0326	0.0071	1.0139	0.7424	0.8977	0.9613	0.9056	0.8784	0.8967	1
271377551	1.7916	0.0224	0.5	0.94	0.403	2.4163	7.8601	4.1198	3.2758	1.5571	0.0224	1.0335	0.7653	0.8735	0.965	0.8796	0.8648	0.8691	1
271390505	1.7316	0.0752	0.5	0.6533	0.508	2.6575	5.8758	3.6971	4.4662	1.4943	0.0752	1.0324	0.6792	0.8495	0.9551	0.9002	0.8024	0.8629	1
271453052	1.576	0.0641	0.5	0.9051	0.4108	2.5485	3.8461	3.3645	4.8233	1.3639	0.0641	1.0302	0.7106	0.8501	0.9515	0.9168	0.8019	0.8654	1
280330002	3.615	0.0087	0.5	0.7667	1.3111	3.3418	6.0029	10.2261	0	3.6211	0.0087	1	1	0.9991	1	1	1	1.0017	1
290210005	1.6963	0.0244	0.5	0.8857	0.4604	2.4858	10.6571	3.9347	3.6594	1.4786	0.0244	1.0581	0.6916	0.8836	0.9715	0.9013	0.859	0.8717	1
290370003	1.6001	0.0351	0.5	1.0424	0.5187	2.2998	6.8626	3.74	3.2838	1.3851	0.0351	1.0662	0.7188	0.8811	0.9714	0.8853	0.8736	0.8657	1
290470005	1.4085	0.037	0.5	0.4597	0.3602	2.736	7.2097	3.5803	4.809	1.2765	0.037	1.049	0.6918	0.8999	0.9596	0.9396	0.8675	0.9063	1
290770032	1.4	0	0.5	0.7183	0.4714	2.3345	10.0436	4.4088	2.501	1.3652	0	1.0616	0.6966	0.9264	0.9502	0.979	0.8309	0.9752	1
290950034	1.4389	0.0587	0.5	1.0606	0.7021	2.5532	8.9833	3.583	4.6529	1.3139	0.0587	1.0607	0.6482	0.9067	0.9531	0.9519	0.8702	0.9131	1
291860006	2.7339	0.019	0.5	0.8611	0.3497	2.5891	9.5102	6.4249	1.3507	2.2415	0.019	0.9802	0.7024	0.828	0.9527	0.822	0.8744	0.8199	1
291892003	1.9299	0.0343	0.5	0.5584	0.4401	3.4775	7.2789	5.6017	4.9163	1.7743	0.0343	1.0653	0.6119	0.9086	0.9473	0.9493	0.8562	0.9194	1
295100007	1.9198	0.0268	0.5	0.6033	0.4806	3.4038	9.5861	5.5928	4.7422	1.7689	0.0268	1.0923	0.6591	0.908	0.9445	0.9379	0.8605	0.9214	1
295100085	2.8395	0.0194	0.5	0.6914	0.4169	3.7243	7.1416	7.3346	4.1017	2.3579	0.0194	1.0754	0.623	0.8581	0.9484	0.851	0.8491	0.8304	1
295100087	2.3663	0.0381	0.5	0.8511	0.4316	3.121	10.4138	6.298	3.1222	2.0935	0.0381	1.053	0.6066	0.8837	0.944	0.8965	0.8446	0.8847	1
310550019	1.6	0.0373	0.5	1.528	0.5621	1.9327	9.3073	3.5754	2.2908	1.4087	0.0373	1.1295	0.6936	0.884	0.9718	0.927	0.8051	0.8804	1
310550052	1.4712	0.0484	0.5	1.3436	0.5122	2.1888	8.3551	2.9423	3.8411	1.2861	0.0484	1.0787	0.6963	0.8787	0.9654	0.9526	0.8205	0.8741	1
310790004	0.9899	0.0171	0.5	0.768	0.5632	2.0174	6.2976	2.4064	4.0107	0.9939	0.0171	1	1	1.0017	1	1	1	1.0041	1
311090022	1.5106	0.0108	0.5	1.3761	0.3829	1.2887	7.5796	3.4785	0.1414	1.2379	0.0108	1.0417	0.605	0.8211	0.9649	0.8188	0.6971	0.8195	1
311530007	1.8976	0.0425	0.5	1.815	0.5773	1.6102	11.8159	4.4595	0.1813	1.5875	0.0425	1.2209	0.7995	0.8341	0.993	0.8338	0.7118	0.8366	1
311770002	1.3942	0.032	0.5	1.2512	0.3897	1.7712	8.7274	3.0164	2.2611	1.2128	0.032	1.0602	0.6841	0.8747	0.9744	0.8975	0.8432	0.8699	1
330012004	1.717	0.0139	0.5	0.519	0.4811	1.4543	4.6802	4.9801	0.2467	1.2311	0.0139	1.0472	0.8348	0.7257	0.9743	0.7145	0.9885	0.717	1
330090010	1.2874	0.0239	0.5	0.473	0.4922	1.2813	8.8462	3.8085	0.5282	1.0569	0.0239	1.0484	0.8305	0.8271	0.9696	0.8054	0.9623	0.821	1
330111015	1.8676	0.1481	0.5	0.6685	1.1389	2.1468	11.3738	5.5719	1.6355	1.571	0.1481	1.0078	0.8533	0.8745	0.9739	0.837	1.0085	0.8412	1

MATS 2.3.1 - Ouput File - 24-hr PM-2.5
2018 Business As Usual Scenario

Year																				
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt	
330131006	1.5119	0.1411	0.5	0.5921	0.9712	1.6609	10.5419	4.3081	1.4135	1.1802	0.1411	1.0415	0.8463	0.8198	0.9749	0.7678	1.037	0.7806	1	
330150014	1.7302	0.0672	0.5	0.4796	0.7165	1.9224	9.0808	6.5687	0.8008	1.4089	0.0672	1.0471	0.8168	0.8311	0.9684	0.8048	1.058	0.8143	1	
330190003	1.3744	0.0365	0.5	0.506	0.4979	1.4068	9.414	4.0546	0.7614	1.0786	0.0365	1.0614	0.8214	0.8103	0.9676	0.772	1.0109	0.7848	1	
340030003	3.3226	0.4782	0.5	1.1647	1.653	4.3296	6.4739	7.797	5.1752	2.7425	0.4782	1.0619	0.7156	0.8715	0.9686	0.8175	1.0033	0.8254	1	
340070003	3.7737	0.1432	0.5	1.7613	1.0046	3.4227	10.0692	8.2727	1.4286	2.9085	0.1432	1.0351	0.715	0.7929	0.9497	0.7768	0.9411	0.7707	1	
340071007	2.0612	0.2563	0.5	1.498	1.4147	3.586	10.5994	6.1952	4.3607	1.9	0.2563	1.0326	0.7119	0.9182	0.9395	0.919	0.9161	0.9218	1	
340171003	2.0438	0.2534	0.5	1.0782	1.5333	4.0952	13.2517	6.5692	5.6476	2.0943	0.2534	1.0886	0.743	0.9911	0.9711	1.0342	0.9397	1.0247	1	
340172002	2.607	0.1078	0.5	1.1089	1.4296	3.3641	14.9159	6.9945	2.5557	2.2804	0.1078	1.0482	0.691	0.8909	0.9567	0.8793	0.9226	0.8747	1	
340210008	2.0518	0.1263	0.5	0.9594	1.4571	3.7262	9.8953	5.7721	5.4249	1.8236	0.1263	1.048	0.7327	0.9222	0.9442	0.8749	1.005	0.8888	1	
340230006	2.8886	0.1082	0.5	0.766	1.1598	3.4419	8.047	7.0004	3.063	2.3674	0.1082	1.0562	0.7054	0.8662	0.9603	0.821	1.0057	0.8196	1	
340270004	2.0185	0.1544	0.5	0.738	1.3886	3.4037	6.7659	5.7822	4.4149	1.8425	0.1544	1.0517	0.7506	0.9436	0.9609	0.8926	1.0408	0.9128	1	
340273001	3.4215	0.0526	0.5	0.4871	0.4101	2.9203	7.3961	8.0098	0.8158	2.7634	0.0526	1.066	0.7334	0.8283	0.9688	0.813	1.0009	0.8076	1	
340292002	3.4066	0.0867	0.5	1.0715	1.1278	2.9816	6.4649	7.5914	0.9899	2.6619	0.0867	1.0809	0.7276	0.8051	0.9652	0.787	0.9862	0.7814	1	
340310005	2.1261	0.3983	0.5	1.0272	1.8261	3.9714	8.5552	6.0543	6.0033	2.0126	0.3983	1.048	0.7258	0.9537	0.9675	0.9156	1.0072	0.9466	1	
340390004	1.942	0.2865	0.5	1.1853	2.742	3.2897	12.8157	5.7057	4.3115	1.8211	0.2865	1.0542	0.7221	0.9459	0.9678	0.9225	0.9773	0.9378	1	
340390006	2.06	0.3433	0.5	1.2654	3.1582	3.5876	10.5621	5.787	5.4068	1.889	0.3433	1.053	0.7862	0.933	0.9674	0.9062	0.9721	0.917	1	
360050080	2.198	0.4191	0.5	1.2762	1.8207	3.8191	12.0312	6.8588	4.43	2.145	0.4191	1.0424	0.686	0.971	0.9578	0.9767	0.9498	0.9759	1	
360050110	3.345	0.4689	0.5	1.1549	1.6231	4.4364	6.4368	8.8065	4.338	3.0434	0.4689	1.0356	0.7275	0.9239	0.965	0.9096	0.9671	0.9098	1	
360130011	2.5842	0.0871	0.5	0.8036	0.5784	2.6622	6.5504	5.8777	1.9793	2.0289	0.0871	1.165	0.7808	0.8308	1.0014	0.7873	1.02	0.7851	1	
360290005	2.016	0.1728	0.5	1.2925	0.6473	3.4317	8.7828	5.2177	6.7057	1.9212	0.1728	1.181	0.775	0.9609	1.0098	0.9104	1.0036	0.953	1	
360291007	3.1416	0.117	0.5	1.142	0.6243	3.4902	7.1402	7.3442	3.9213	2.6433	0.117	1.1509	0.7687	0.8707	1.0042	0.8256	1.0036	0.8414	1	
360310003	1.1815	0.01	0.5	0.3072	0.1558	1.2441	6.7261	3.3062	1.0575	0.9056	0.01	1.0702	0.8655	0.8034	0.9865	0.7575	0.9662	0.7664	1	
360470122	3.7606	0.0854	0.5	1.236	1.3439	4.0284	8.4042	9.4801	1.6766	3.2599	0.0854	1.0431	0.6635	0.8794	0.9634	0.8708	0.9389	0.8669	1	
360551007	1.8582	0.0826	0.5	0.5311	0.636	3.3122	7.2208	4.9828	5.3674	1.7089	0.0826	1.1077	0.7765	0.9244	1.0006	0.9019	0.9505	0.9197	1	
360590008	2.0818	0.2931	0.5	1.1382	1.965	3.6863	7.7523	6.2998	4.6243	1.975	0.2931	1.0556	0.7865	0.9399	0.9665	0.9422	0.9295	0.9487	1	
360610056	2.2768	0.4408	0.5	1.0057	1.6286	4.4355	9.9404	6.5222	6.9632	2.1957	0.4408	1.0345	0.7312	0.9636	0.9635	0.9693	0.9564	0.9644	1	
360610079	3.9088	0.1674	0.5	1.4287	1.5432	4.076	8.6061	9.787	1.4899	3.3652	0.1674	1.0342	0.6906	0.8684	0.9641	0.8651	0.9137	0.8609	1	
360632008	1.7898	0.12	0.5	0.8829	0.6809	2.92	8.597	5.1066	4.3455	1.69	0.12	1.0964	0.861	0.9405	0.9965	0.9299	0.9513	0.9442	1	
360671015	2.5182	0.0131	0.5	0.7028	0.4886	2.7183	6.4206	6.025	2.3909	2.0266	0.0131	1.1059	0.7701	0.8411	0.9928	0.805	0.9632	0.8048	1	
360710002	2.2807	0.1117	0.5	0.8328	1.0352	2.6441	8.5241	5.7113	2.0271	1.9307	0.1117	1.0513	0.7585	0.8882	0.9798	0.852	1.0246	0.8465	1	
360810124	2.0957	0.467	0.5	1.0425	1.7236	3.8998	7.6784	6.1335	5.7081	2.0112	0.467	1.0523	0.731	0.9554	0.9629	0.9545	0.9522	0.9597	1	
360850067	2.3638	0.1805	0.5	1.0494	1.975	3.0572	8.6306	6.2512	2.5739	2.0798	0.1805	1.0611	0.7181	0.9004	0.9652	0.8814	0.9556	0.8799	1	
360893001	1.7388	0.0112	0.5	0.4499	0.3019	1.6473	4.6021	4.745	1.1272	1.2517	0.0112	1.0767	0.8923	0.7465	0.9955	0.704	0.9209	0.7199	1	
361010003	2.1133	0.0216	0.5	0.5039	0.4169	2.4844	5.7263	6.2341	1.9308	1.6961	0.0216	1.1525	0.7915	0.8373	0.9973	0.7944	0.9912	0.8026	1	
361030002	2.6037	0.2129	0.5	1.0247	1.3716	3.2208	6.4217	6.4381	2.9063	2.1878	0.2129	1.0782	0.7093	0.8717	0.9717	0.8405	0.9736	0.8403	1	
361191002	2.661	0.327	0.5	1.2802	1.6736	3.5308	7.427	6.9108	3.4104	2.2968	0.327	1.0637	0.7069	0.8954	0.9676	0.8622	0.9913	0.8632	1	
370010002	3.1443	0.0174	0.5	0.5464	0.4926	2.0359	10.9859	6.1607	0.0281	2.1389	0.0174	1.0745	0.6995	0.6786	0.974	0.6732	0.8791	0.6802	1	
370210034	2.3917	0.0166	0.5	0.4908	0.5386	1.7932	10.5791	5.8696	0.205	1.5786	0.0166	1.0659	0.7857	0.6538	0.9825	0.6383	0.8597	0.66	1	
370330001	3.3417	0.0267	0.5	0.5491	0.4457	2.1676	9.7653	6.394	0	2.3441	0.0267	1.0811	0.7249	0.699	0.9767	0.7014	1	0.7015	1	
370350004	1.6352	0.134	0.5	0.557	1.2925	1.9666	14.0458	4.2652	1.2728	1.3759	0.134	1.0636	0.7302	0.8608	0.9726	0.8472	0.9211	0.8414	1	
370510009	3.0935	0	0.5	0.7047	0.4567	2.456	10.9637	6.9271	0	2.5618	0	1.0364	0.6989	0.8254	0.9727	0.8262	1	0.8281	1	
370570002	3.2651	0.0101	0.5	0.6691	0.6673	2.3638	10.0681	6.808	0.1624	2.381	0.0101	1.0693	0.7177	0.7384	0.9747	0.7269	0.985	0.7292	1	
370610002	2.4203	0.0226	0.5	0.5122	0.5333	1.7733	9.6026	4.868	0.142	1.772	0.0226	1.042	0.8313	0.7295	0.9843	0.7309	0.6761	0.7321	1	
370650004	2.1998	0.0241	0.5	0.5124	0.7924	1.9872	10.9488	5.0988	0.3096	1.8029	0.0241	1.0526	0.7591	0.8077	0.9739	0.8178	0.7009	0.8196	1	
370670022	1.7596	0.0721	0.5	0.4274	0.8957	2.1018	12.8202	4.4592	1.5663	1.4785	0.0721	1.0614	0.7039	0.8565	0.9629	0.8401	0.9293	0.8402	1	
370670030	2.6102	0.0626	0.5	0.4761	0.7135	2.2951	11.0476	5.7706	0.8121	2.0245	0.0626	1.0695	0.7206	0.7969	0.97	0.7799	0.9589	0.7756	1	
370710016	3.1993	0.0233	0.5	0.8112	0.6704	2.2094	8.2089	6.6233	0.1572	2.2144	0.0233	1.0577	0.7138	0.6989	0.9747	0.6865	0.9587	0.6922	1	
371070004	1.6237	0.0209	0.5	0.2719	0.5002	1.2015	12.0854	3.3071	0	1.2052	0.0209	1.0562	0.7757	0.7426	0.9793	0.7433	1	0.7422	1	
371110004	3.1692	0	0.5	0.6532	0.6228	2.1194	10.2832	6.2849	0.2026	2.1115	0	1.0913	0.7869	0.6763	0.975	0.6632	0.9339	0.6662	1	
371170001	2.3588	0.0361	0.5	0.5312	0.7006	2.0902	7.6456	5.2838	0.5457	1.8568	0.0361	1.0685	0.8367	0.7867	0.9832	0.7846	0.7841	0.7872	1	
371190041	3.048	0.0266	0.5	1.0213	0.689	2.5923	9.1361	7.2169	0.2857	2.5493	0.0266	1.0491	0.6761	0.8438	0.9641	0.833	0.9392	0.8364	1	
371190042	3.0226	0.0254	0.5	0.979	0.7061	2.5846	8.1858	7.161	0.2968	2.5359	0.0254	1.0481	0.6764	0.8447	0.9639	0.8369	0.9392	0.839	1	
371190043	2.8794	0.0264	0.5	0.6528	0.9048	3.0281	8.0924	7.0251	1.5099	2.3721	0.0264	1.0643	0.7532	0.8554	0.9729	0.8379	0.9961	0.8238	1	
371210001	2.2475	0	0.5	0.6443	0.878	1.9568	10.8459	5.0517	0.3373	1.8051	0	1.1108	0.7898	0.8017	0.9799	0.8009	0.8722	0.8032	1	
371230001	3.1471	0.0249	0.5	0.5178	0.5206	2.096	7.8592	6.3603	0.0519	2.153	0.0249	1.0828	0.7605	0.6865	0.9759	0.6785	0.8315	0.6841	1	
371290002	3.5849	0.0221	0.5	0.796	0.8255	2.681	10.7538	7.2861	0.3704	2.6208	0.0221	1.0694	0.8186	0.7354	0.9814	0.7307	0.7952	0.7311	1	
371470005	2.1586	0.0229	0.5	0.4204	0.6295	1.7598	10.8364	4.6537	0.2154	1.6688	0.0229	1.0388	0.8307	0.7713	0.9866	0.7702	0.7417	0.7731	1	

MATS 2.3.1 - Ouput File - 24-hr PM-2.5
2018 Business As Usual Scenario

Year																			
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
371550005	3.4698	0	0.5	0.2983	0.5366	2.5885	8.2427	7.166	0.1886	2.6134	0	1.064	0.7795	0.754	0.9768	0.7526	0.7047	0.7532	1
371590021	2.6181	0.0075	0.5	0.4423	0.3613	2.0707	12.0059	5.3939	0.6316	1.8632	0.0075	1.0623	0.7561	0.7359	0.9866	0.7181	0.8959	0.7117	1
371730002	1.7505	0	0.5	0.6148	0.6464	1.6013	11.7895	3.9411	0.6156	1.3782	0	1.0677	0.7796	0.7991	0.9694	0.7885	0.8909	0.7873	1
371830014	2.6315	0.0079	0.5	0.6374	0.7599	2.3883	11.7101	6.2068	0.2985	2.2092	0.0079	1.0462	0.6421	0.8298	0.9601	0.8349	0.7464	0.8395	1
371890003	3.0189	0.0059	0.5	0.5318	0.5547	1.9984	7.9123	5.7789	0.2405	2.0025	0.0059	1.1305	0.7768	0.6751	0.982	0.6657	0.8672	0.6633	1
371910005	2.4907	0.0263	0.5	0.4719	0.6701	1.9776	12.5015	5.2614	0.2011	1.8919	0.0263	1.046	0.816	0.7622	0.9851	0.7589	0.7071	0.7596	1
380171004	1.5279	0.0123	0.5	1.7184	0.3357	1.1626	8.8612	3.2193	0	1.1695	0.0123	1.0286	0.6923	0.7668	0.9628	0.7656	1	0.7654	1
390090003	3.7073	0	0.5	1.188	0.6148	2.5837	6.2534	9.3709	0	2.3067	0	1.2257	0.7757	0.6199	0.9892	0.6203	1	0.6222	1
390170003	4.492	0.0086	0.5	1.022	0.639	4.1447	4.2676	10.5944	2.137	3.7049	0.0086	1.2355	0.671	0.8425	0.9982	0.827	0.9272	0.8248	1
390170016	3.6485	0.2266	0.5	0.9931	0.8746	3.3658	10.5902	8.9556	1.1272	3.0609	0.2266	1.1484	0.6335	0.8402	0.9719	0.837	0.8456	0.839	1
390230005	4.346	0.0316	0.5	0.6992	0.4733	3.3621	7.7681	8.5092	1.4911	3.1413	0.0316	1.1701	0.6712	0.7411	0.9816	0.7263	0.873	0.7228	1
390250022	4.1602	0.1046	0.5	0.8768	0.8399	3.4048	5.2517	9.8841	0.7259	3.2824	0.1046	1.2807	0.6996	0.8013	0.9962	0.7918	0.9136	0.789	1
390350027	3.0928	0.8144	0.5	2.5561	1.0081	4.4379	8.1531	8.155	4.8628	2.7502	0.8144	1.1001	0.649	0.9067	0.9568	0.8948	0.9279	0.8892	1
390350034	2.1389	0.7073	0.5	1.9803	1.0318	3.7884	5.1464	6.2599	4.9905	1.9675	0.7073	1.1138	0.6543	0.9094	0.9588	0.9176	0.8948	0.9199	1
390350038	2.3036	0.8594	0.5	2.1217	1.1114	4.1353	11.1373	6.7496	5.5318	2.1309	0.8594	1.1054	0.6521	0.9114	0.9592	0.9237	0.8935	0.925	1
390350045	2.3551	0.8341	0.5	2.1439	1.1379	4.1558	5.6727	6.8539	5.4675	2.1605	0.8341	1.1044	0.6512	0.9088	0.9592	0.9188	0.8871	0.9173	1
390350060	2.4147	0.8171	0.5	2.1833	1.1796	4.1933	8.9075	7.0013	5.4061	2.2054	0.8171	1.1032	0.6503	0.9016	0.9592	0.9129	0.8796	0.9133	1
390350065	2.1974	0.7483	0.5	1.997	1.0742	3.8248	6.3548	6.3735	4.9474	2.0047	0.7483	1.1034	0.6505	0.9035	0.9592	0.9143	0.8805	0.9123	1
390351002	3.8967	0.2267	0.5	1.8234	0.7946	3.5286	5.5514	8.3212	2.1241	2.9706	0.2267	1.1024	0.7276	0.7938	0.9732	0.7699	0.921	0.7623	1
390490024	1.8503	0.1	0.5	0.9524	0.5744	3.0023	12.1153	5.6102	3.5132	1.7697	0.1	1.0903	0.6012	0.9211	0.9604	0.9631	0.8477	0.9565	1
390490025	1.7465	0.094	0.5	0.8957	0.5876	2.7859	11.8252	5.2372	3.2791	1.6508	0.094	1.0836	0.6371	0.9164	0.9656	0.9565	0.8607	0.9452	1
390570005	2.4716	0.0264	0.5	0.7365	0.4654	2.5516	9.2833	4.9049	2.904	1.8134	0.0264	1.0998	0.6644	0.794	0.976	0.7457	0.8874	0.7337	1
390610006	3.7866	0.0306	0.5	0.6567	0.5861	3.4217	8.3299	8.9989	1.6263	3.0641	0.0306	1.2976	0.6522	0.8319	0.99	0.8136	0.9252	0.8092	1
390610014	3.2336	0.2005	0.5	0.6488	0.6302	3.2487	11.733	7.3615	2.0879	2.5842	0.2005	1.1101	0.6259	0.8261	0.9688	0.8064	0.9106	0.7992	1
390610040	4.1706	0.0297	0.5	0.601	0.6159	3.5841	6.3755	9.1288	1.5129	3.2722	0.0297	1.3279	0.6641	0.8046	0.9921	0.7867	0.9255	0.7846	1
390610042	2.158	0.1023	0.5	0.566	0.643	3.7045	9.5082	6.4246	4.7781	2.0388	0.1023	1.1357	0.696	0.9293	0.9719	0.953	0.893	0.9448	1
390610043	4.1148	0.0087	0.5	0.7163	0.5842	3.6643	7.928	9.3423	1.6919	3.3283	0.0087	1.2991	0.6523	0.8267	0.9906	0.8132	0.9252	0.8088	1
390617001	5.0502	0.0322	0.5	0.708	0.7295	3.5138	6.6947	10.7127	0	3.8138	0.0322	1.3757	0.667	0.7586	1.0006	0.7569	1	0.7552	1
390618001	3.2585	0.2775	0.5	0.6403	0.7352	2.9391	12.2987	7.7264	0.9143	2.687	0.2775	1.1871	0.6384	0.8249	0.974	0.8232	0.8429	0.8246	1
390810017	3.875	0.2678	0.5	2.2998	1.4576	3.4628	10.3367	8.6733	1.4809	3.0001	0.2678	1.1339	0.7608	0.8048	0.9896	0.7815	0.9648	0.7742	1
390811001	3.5095	0.1369	0.5	1.1345	0.9042	2.6636	10.8712	7.1944	1.0401	2.3819	0.1369	1.1487	0.7717	0.711	0.9895	0.6808	0.9722	0.6787	1
390853002	3.1006	0.3607	0.5	1.981	0.7863	3.7497	5.7571	7.6097	3.4606	2.6299	0.3607	1.147	0.6836	0.8803	0.9747	0.8518	0.9673	0.8482	1
390933002	2.0203	0.0166	0.5	1.7241	0.2599	1.9308	14.0919	4.7573	0.9124	1.6451	0.0166	1.0891	0.668	0.8432	0.9612	0.8214	0.9496	0.8143	1
390950024	1.9767	0.1181	0.5	0.6686	0.6718	3.7515	7.4164	5.261	6.2663	1.8062	0.1181	1.0639	0.6548	0.9048	0.9494	0.9588	0.8487	0.9138	1
390950026	3.2222	0.077	0.5	1.1588	0.5589	4.3096	4.7693	8.0283	4.8423	2.8295	0.077	1.0634	0.6544	0.9008	0.9604	0.9115	0.8759	0.8781	1
390990005	4.0311	0.0378	0.5	1.8988	1.0037	2.8326	5.9397	7.7864	0.7075	2.6994	0.0378	1.1676	0.6815	0.691	0.9846	0.6751	0.8648	0.6696	1
390990014	2.8803	0.1297	0.5	1.6345	1.0708	3.0924	9.8641	6.7867	2.5591	2.2951	0.1297	1.1093	0.6896	0.8286	0.9833	0.8044	0.8903	0.7969	1
391030003	1.9378	0.205	0.5	1.2397	0.6454	3.3635	5.9628	5.7452	4.6524	1.8177	0.205	1.1039	0.713	0.9132	0.9774	0.9486	0.8675	0.938	1
391130032	1.8263	0.0243	0.5	0.4243	0.3869	2.793	14.7708	4.5243	3.7806	1.6587	0.0243	1.0836	0.6156	0.8901	0.9657	0.9116	0.8615	0.9082	1
391330002	2.9421	0.2214	0.5	1.3559	0.7343	3.7676	4.4477	7.3956	3.7606	2.462	0.2214	1.1067	0.6939	0.873	0.9788	0.8524	0.917	0.8368	1
391351001	2.3403	0.1162	0.5	0.6539	0.6284	3.3499	7.785	6.181	3.867	2.0944	0.1162	1.0817	0.6863	0.8982	0.9748	0.9073	0.8767	0.8949	1
391450013	3.0996	0.0503	0.5	1.2346	1.2832	2.8582	9.1825	7.8573	1.0923	2.3936	0.0503	1.1224	0.788	0.7862	0.9891	0.7587	0.953	0.7722	1
391530017	3.2294	0.1416	0.5	1.0383	0.5612	4.0406	5.2017	8.1707	3.7261	2.7321	0.1416	1.1118	0.6663	0.8805	0.9729	0.8591	0.9289	0.846	1
391530023	2.156	0.1797	0.5	0.8395	0.5764	4.1839	4.2323	6.7926	5.6438	2.0907	0.1797	1.1278	0.6805	0.9589	0.9757	0.9694	0.9357	0.9697	1
391550007	1.861	0.2697	0.5	1.6906	1.1944	3.3277	8.8905	5.4015	4.7458	1.7508	0.2697	1.0914	0.7281	0.94	0.9843	0.9504	0.9204	0.9408	1
400159008	2.6798	0	0.5	1.3345	0.6447	2.4815	11.0229	7.495	0.0163	2.6833	0	1	1	0.9964	1	1	1	1.0013	1
400970186	1.278	0.024	0.5	1.2946	0.5952	2.1879	11.2079	4.0047	2.5178	1.2543	0.024	1.0574	0.7776	0.9352	0.9882	0.9879	0.8494	0.9815	1
401010169	1.3895	0.0252	0.5	0.9472	0.5718	2.4372	11.348	4.2275	3.1626	1.3451	0.0252	1.0664	0.7566	0.9235	0.9897	0.978	0.8558	0.968	1
401091037	2.229	0.0151	0.5	0.7283	0.3598	2.362	7.2226	4.6528	2.6868	1.7954	0.0151	1.0453	0.6636	0.832	0.977	0.8283	0.8308	0.8055	1
401159004	1.2049	0	0.5	0.8492	0.4653	2.0383	9.6256	3.6895	2.4312	1.1655	0	1.0543	0.7589	0.921	0.9778	0.9724	0.8459	0.9673	1
401359015	1.809	0.0144	0.5	1.0585	0.5231	1.9226	13.3867	4.6849	0.8799	1.6122	0.0144	1.0278	0.7631	0.8858	0.982	0.8915	0.837	0.8912	1
401431127	1.953	0.0247	0.5	0.8521	0.5647	2.0879	11.5502	4.7915	1.4691	1.7077	0.0247	1.0381	0.7849	0.8851	0.9852	0.8903	0.8642	0.8744	1
420010001	2.7981	0.2192	0.5	0.5745	0.5136	3.7491	8.942	6.9075	4.4068	2.3914	0.2192	1.0652	0.7672	0.889	0.9743	0.8394	0.9932	0.8547	1
420030008	2.3317	0	0.5	2.4301	1.2899	2.4084	13.2339	6.8055	1.5171	1.6627	0	1.1666	0.7071	0.7457	0.9813	0.6882	0.9901	0.7131	1
420030064	1.8808	0	0.5	1.2455	1.3294	2.6775	34.7424	5.0485	2.9288	1.6076	0	1.1121	0.756	0.9085	0.9785	0.8648	1.0047	0.8548	1
420030067	3.6381	0.0463	0.5	1.9098	1.0093	2.6986	6.2534	9.0953	0.251	2.4555	0.0463	1.1673	0.7261	0.6744	0.988	0.6635	0.9631	0.6749	1
420031008	2.8991	0.0103	0.5	1.9744	1.2595	2.772	11.9033	7.9019	1.6633	1.9383	0.0103	1.1755	0.7511	0.7135	0.9877	0.6531	1.0624	0.6686	1

MATS 2.3.1 - Ouput File - 24-hr PM-2.5
2018 Business As Usual Scenario

Year																			
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt
420031301	2.8509	0	0.5	2.5539	1.6369	3.0718	14.2558	7.5271	2.2325	2.1593	0	1.1438	0.7114	0.7929	0.9827	0.7379	0.9865	0.7574	1
420033007	2.7951	0.0096	0.5	1.6175	1.1677	2.7238	10.6011	7.414	1.6787	1.9293	0.0096	1.1445	0.7576	0.7346	0.9844	0.6765	1.0108	0.6902	1
420070014	2.095	0.1086	0.5	1.4651	1.2421	2.955	15.86	6.189	2.7409	1.995	0.1086	1.1722	0.757	0.9478	0.9958	0.9494	0.9421	0.9523	1
420110011	2.3333	0.8	0.5	0.8788	1.1394	4.9824	7.4168	6.1468	9.2532	2.3207	0.8	1.0546	0.7596	0.9965	0.9759	0.9084	1.0929	0.9946	1
420170012	1.8934	0.1668	0.5	0.9876	1.2281	3.2971	11.7172	5.4912	4.2937	1.7048	0.1668	1.04	0.7102	0.912	0.9446	0.8944	0.9496	0.9004	1
420270100	2.1265	0.0104	0.5	0.4519	0.6646	2.9716	12.4195	5.6803	3.0637	1.7639	0.0104	1.1219	0.7878	0.8919	0.9906	0.8406	1.0476	0.8295	1
420290100	2.5539	0.2134	0.5	0.7092	0.8002	3.468	13.4987	5.8692	4.369	2.1101	0.2134	1.0808	0.7451	0.8472	0.9713	0.7998	0.9307	0.8262	1
420410101	1.6325	0.1225	0.5	0.5102	0.826	3.2267	16.086	4.3171	5.713	1.5577	0.1225	1.0596	0.7301	0.962	0.9761	0.9128	1.0098	0.9542	1
420430401	2.04	0.305	0.5	0.7613	1.3699	4.2248	10.7815	4.5839	8.6598	1.9951	0.305	1.0488	0.7319	0.9608	0.9759	0.903	1.0106	0.978	1
420450002	2.9205	0.0652	0.5	1.0156	0.8385	3.3124	11.5307	7.7507	2.4238	2.5051	0.0652	1.0617	0.7387	0.8728	0.9474	0.8583	0.9552	0.8578	1
420490003	2.0919	0.1701	0.5	0.9779	0.7984	3.4501	9.6427	6.0603	4.2075	1.8693	0.1701	1.172	0.7364	0.9332	0.989	0.8878	1.0184	0.8936	1
420692006	1.7016	0.0264	0.5	0.789	1.1104	2.3218	11.9669	4.4291	2.2881	1.4325	0.0264	1.0887	0.7511	0.8743	0.98	0.8408	0.9725	0.8418	1
420710007	2.1248	1.1495	0.5	0.6939	0.6912	4.5707	11.1668	5.2128	9.0205	2.135	1.1495	1.0484	0.7632	1.0017	0.9744	0.9015	1.0973	1.0048	1
420910013	3.2775	0.1642	0.5	1.0402	0.9677	3.5765	6.4103	7.5714	3.2932	2.5941	0.1642	1.0694	0.7128	0.8403	0.9619	0.7887	1.0208	0.7915	1
420950025	1.8507	0.1611	0.5	1.0251	1.5958	3.5506	13.8193	5.1474	5.5872	1.6957	0.1611	1.0504	0.7355	0.9376	0.9555	0.8688	1.0326	0.9162	1
421010004	2.1333	0.227	0.5	1.3531	1.3944	3.6698	13.4249	6.3584	4.4399	1.9518	0.227	1.0329	0.7139	0.9177	0.9395	0.9169	0.9211	0.9149	1
421010047	3.024	0.1222	0.5	0.9776	1.1903	3.6708	11.6575	7.5438	2.9734	2.5031	0.1222	0.9947	0.7845	0.8522	0.9435	0.8287	0.9424	0.8278	1
421250005	2.7389	0.0455	0.5	1.5561	1.1513	2.5387	10.659	6.7624	1.3781	1.9104	0.0455	1.1853	0.7475	0.7352	0.9914	0.6822	0.976	0.6975	1
421255001	3.3941	0.0256	0.5	0.8275	0.7443	3.1612	9.2073	10.3799	0.8263	2.5113	0.0256	1.1622	0.7478	0.7438	0.9897	0.7194	0.9627	0.7399	1
421290008	1.938	0.0676	0.5	0.8967	1.3185	3.0752	10.9445	5.2189	3.8778	1.5938	0.0676	1.1642	0.7662	0.8754	0.9952	0.819	1.0017	0.8224	1
421330008	2.805	0.627	0.5	0.7968	0.9268	5.4257	4.3969	7.5616	8.9312	2.5435	0.627	1.0498	0.7801	0.9395	0.9797	0.855	1.049	0.9068	1
440030002	2.5242	0.0961	0.5	0.7515	0.6456	2.0396	6.9089	5.6295	0.5524	1.9342	0.0961	1.1103	0.7645	0.7879	0.9771	0.7705	1.0125	0.7663	1
440070022	2.027	0.2432	0.5	0.587	1.0608	2.7358	9.5623	5.6358	2.7124	1.7974	0.2432	1.0542	0.7529	0.9306	0.9536	0.8974	1.0298	0.8867	1
440070026	2.3189	0.1559	0.5	0.646	0.8524	2.6843	9.7707	7.0044	1.7318	1.9436	0.1559	1.0766	0.7354	0.867	0.9579	0.829	1.0195	0.8382	1
440070028	2.2945	0.0596	0.5	0.6525	0.7402	2.4386	8.5466	6.8214	1.0773	1.924	0.0596	1.0817	0.7152	0.8545	0.9608	0.8291	0.9749	0.8385	1
440071010	2.0691	0.1635	0.5	0.6362	0.984	2.5849	9.851	5.6701	2.1084	1.852	0.1635	1.0598	0.7375	0.9242	0.9562	0.899	1.0075	0.8951	1
450250001	2.2399	0.023	0.5	0.4394	0.5217	2.2908	8.995	5.5842	1.1974	1.9061	0.023	1.0497	0.7757	0.8713	0.9787	0.8593	0.9323	0.851	1
450410002	2.4812	0.0318	0.5	0.7013	0.5435	2.0264	9.2897	5.8716	0.3319	1.9639	0.0318	1.0437	0.7727	0.7973	0.9793	0.7903	0.8908	0.7915	1
450450008	1.529	0	0.5	0.2863	0.5393	1.7748	16.5998	4.0379	0.9124	1.3411	0	1.0299	0.7185	0.8745	0.9463	0.8803	0.8415	0.8771	1
450450009	1.839	0	0.5	0.3445	0.612	2.0083	14.2424	4.7524	0.8101	1.6151	0	1.0296	0.7123	0.8745	0.9448	0.8785	0.8502	0.8783	1
450630008	1.8315	0	0.5	0.6139	0.6605	1.7725	16.3337	4.8232	0.1577	1.7636	0	1.0361	0.7911	0.9538	0.9829	0.9628	0.8367	0.963	1
450730001	2.3753	0	0.5	0.7262	0.5752	1.8779	9.0924	5.5006	0.3788	1.6461	0	1.0697	0.7588	0.6887	0.9683	0.6668	0.739	0.693	1
450790007	2.2233	0	0.5	0.7531	0.7012	2.1137	11.2849	5.7745	0.18	2.1138	0	1.0387	0.6908	0.9405	0.9688	0.9482	0.8275	0.9507	1
450790019	2.3048	0	0.5	0.7746	0.7471	2.1699	13.5965	5.967	0.1366	2.1886	0	1.0322	0.7148	0.9525	0.9719	0.9515	0.8496	0.9496	1
450830010	1.7182	0	0.5	0.3264	0.6689	1.9898	12.3207	4.5133	1.0564	1.4978	0	1.0376	0.7897	0.8747	0.9716	0.8715	0.9094	0.8717	1
460110002	1.516	0	0.5	1.231	0.4269	1.5846	8.5486	3.1711	1.444	1.1653	0	1.0458	0.714	0.7816	0.9747	0.7969	0.7375	0.7687	1
460130003	1.3339	0.01	0.5	0.7391	0.3473	1.8241	6.036	3.2319	2.3525	1.3366	0.01	1	1	1.0012	1	1	1	1.0021	1
460290002	1.7742	0	0.5	0.6621	0.2952	2.7549	7.3146	3.4543	5.1466	1.4973	0	1.036	0.6961	0.8655	0.9545	0.9316	0.8136	0.844	1
460990006	2.0608	0.0072	0.5	0.7235	0.361	3.572	4.2361	3.644	7.7145	1.7686	0.0072	1.0356	0.6905	0.8741	0.9407	0.967	0.8242	0.8582	1
470090011	2.6434	0	0.5	1.0762	0.7389	2.2806	10.7037	8.2709	0.1757	1.9169	0	1.0404	0.7644	0.7193	0.9797	0.7056	0.9088	0.7252	1
470370023	2.411	0.0486	0.5	0.9128	0.8558	3.0501	8.339	6.9115	2.0658	2.2858	0.0486	1.1054	0.6658	0.9219	0.9754	0.9409	0.8566	0.9481	1
470370036	2.2976	0.026	0.5	0.8899	0.6759	2.7413	8.5171	6.8609	1.6382	2.0208	0.026	1.1082	0.6716	0.8683	0.9747	0.8452	0.8713	0.8795	1
470450004	3.0652	0.0069	0.5	1.2056	0.6566	2.7596	8.0421	7.6344	0.9527	2.4578	0.0069	1.0569	0.7175	0.807	0.9782	0.7985	0.8233	0.8018	1
470650031	1.5616	0.0275	0.5	0.7107	1.0219	1.3223	16.6316	3.3984	0.2748	1.2115	0.0275	1.0349	0.6724	0.774	0.9627	0.774	0.7912	0.7758	1
470651011	2.5056	0.0281	0.5	0.8611	0.98	2.0616	9.3058	5.5823	0.6421	1.7879	0.0281	1.0548	0.6762	0.7342	0.9656	0.7118	0.9142	0.7135	1
470654002	1.4484	0.0568	0.5	0.8793	1.3397	1.6408	15.5423	3.5332	1.1135	1.1372	0.0568	1.0321	0.6644	0.8024	0.9618	0.7874	0.8342	0.7851	1
470931020	1.7827	0	0.5	1.4604	1.2614	1.963	14.0862	5.1986	1.4371	1.3222	0	1.0754	0.6586	0.7807	0.9691	0.7264	0.9863	0.7417	1
470990002	3.1726	0.0082	0.5	0.672	0.3518	2.2021	8.9199	7.8876	0	2.0069	0.0082	1.0791	0.7295	0.6337	0.9772	0.6345	1	0.6326	1
471050108	2.5843	0	0.5	1.0041	0.5427	1.8996	11.7944	7.0677	0	1.6355	0	1.086	0.7201	0.6297	0.9776	0.6322	1	0.6328	1
471071002	3.0305	0.0103	0.5	1.0173	0.7259	2.0962	10.2771	6.6989	0.2244	1.9418	0.0103	1.0745	0.696	0.6415	0.9702	0.6309	0.838	0.6407	1
471130006	2.3542	0	0.5	0.5972	0.3989	1.5109	14.5351	5.3388	0	1.4075	0	1.0548	0.7045	0.5965	0.9814	0.5952	1	0.5979	1
471192007	2.5763	0.0163	0.5	0.6095	0.5728	2.7042	7.8228	7.1191	1.2927	2.2042	0.0163	1.0977	0.7308	0.835	0.9842	0.8201	0.8076	0.8556	1
471251009	2.7611	0.0075	0.5	0.9775	0.6472	2.8776	8.7056	7.451	1.5372	2.2555	0.0075	1.0998	0.6934	0.8279	0.9811	0.8034	0.871	0.8169	1
471450004	2.5583	0	0.5	1.1189	0.714	1.7796	9.9404	5.9764	0.1975	1.584	0	1.0894	0.6848	0.627	0.9676	0.6158	0.8898	0.6192	1
471570014	2.6264	0.0143	0.5	0.9801	1.194	2.0275	9.1339	5.4351	0.4614	1.9067	0.0143	1.0669	0.761	0.7444	0.9706	0.7274	0.8491	0.726	1
471570047	2.6157	0.0171	0.5	0.8814	1.1107	3.0616	6.8302	7.393	1.7446	2.2854	0.0171	1.0355	0.6994	0.8577	0.9579	0.8621	0.7744	0.8737	1
471631007	4.4188	0.021	0.5	0.7222	0.5519	3.0996	7.2037	9.3235	0	3.3647	0.021	1.0176	0.8424	0.7608	0.9888	0.7617	1	0.7614	1

MATS 2.3.1 - Ouput File - 24-hr PM-2.5
2018 Business As Usual Scenario

Year																				
_id	b_water_mass	b_salt_mass	f_blank_mass	f_crustal_mass	f_EC_mass	f_NH4_mass	f_Ocmb_mass	f_SO4_mass	f_NO3_mass	f_water_mass	f_salt_mass	rrf_crustal	rrf_ec	rrf_nh4	rrf_oc	rrf_so4	rrf_no3	rrf_water	rrf_salt	
471650007	2.7597	0.0181	0.5	0.7921	0.4452	2.8927	9.1439	7.2986	1.4492	2.2815	0.0181	1.1177	0.6814	0.8281	0.9812	0.8114	0.834	0.8267	1	
500030004	1.8416	0	0.5	0.6116	0.5382	1.5928	10.7681	4.811	0.2437	1.5141	0	1.0904	0.8227	0.8184	0.9931	0.7985	0.9293	0.8222	1	
500070012	2.5252	0.0256	0.5	0.5104	0.6128	2.6613	8.9772	5.4333	2.5437	2.0022	0.0256	1.0322	0.9144	0.8286	0.9892	0.7853	0.9498	0.7929	1	
500210002	1.0582	0.0277	0.5	0.3966	0.4227	1.3567	19.2171	2.9569	1.2988	0.953	0.0277	1.0499	0.866	0.9076	0.9827	0.8946	0.9395	0.9006	1	
510130020	2.7298	0.0385	0.5	1.2951	1.4346	2.935	7.92	6.4554	2.2394	2.1319	0.0385	1.0622	0.6459	0.837	0.9531	0.7911	1.0196	0.781	1	
510360002	3.647	0.0374	0.5	0.7113	0.6849	2.8112	8.2437	7.7831	0.3747	2.8075	0.0374	1.0725	0.7647	0.7767	0.974	0.773	0.8871	0.7698	1	
510410003	3.3853	0.0346	0.5	0.6649	0.6217	2.6221	7.7363	7.2575	0.363	2.6141	0.0346	1.0665	0.7645	0.7787	0.9687	0.7733	1.0011	0.7722	1	
510590030	3.6188	0	0.5	1.4518	1.3124	3.0041	7.2435	7.8304	1.2099	2.6861	0	1.0752	0.6822	0.7774	0.9666	0.7496	1.0637	0.7422	1	
510595001	2.3898	0.1267	0.5	1.0975	1.2509	2.7572	9.1444	5.7721	2.5429	1.8768	0.1267	1.0753	0.6646	0.8414	0.971	0.7861	1.0459	0.7853	1	
510870014	4.0374	0.0282	0.5	0.8113	0.5607	2.7921	7.6597	8.2608	0	3.0227	0.0282	1.0643	0.7638	0.7492	0.9724	0.7464	1	0.7487	1	
510870015	3.2717	0.0412	0.5	0.6395	0.5823	2.5048	6.8586	6.885	0.3797	2.4756	0.0412	1.0572	0.7089	0.7686	0.9707	0.7582	0.9734	0.7567	1	
511071005	2.434	0.0799	0.5	0.833	0.7236	2.5363	7.333	7.2737	1.7606	1.6625	0.0799	1.0967	0.7958	0.7252	0.9809	0.6571	1.1079	0.683	1	
511390004	3.4597	0.0265	0.5	0.5419	0.2977	2.4447	8.6471	6.5191	0	2.3222	0.0265	1.0852	0.8159	0.6725	0.9801	0.6732	1	0.6712	1	
515200006	3.0716	0.0101	0.5	0.5393	0.983	2.3305	9.1718	5.9274	0.6962	2.119	0.0101	1.039	0.8201	0.7117	0.9838	0.6947	0.9047	0.6899	1	
516500004	3.5555	0.0456	0.5	0.8147	0.7332	2.8027	8.4194	7.7203	0.375	2.7938	0.0456	1.068	0.7746	0.7906	0.972	0.7868	0.8578	0.7858	1	
516800015	3.0962	0	0.5	0.541	0.5197	1.9366	8.4687	6.7011	0	1.8652	0	1.097	0.7025	0.599	0.975	0.6009	1	0.6024	1	
517100024	2.9076	0.0742	0.5	0.7354	1.0763	3.3954	12.8885	7.736	1.8206	2.5805	0.0742	1.0976	0.744	0.8891	0.9616	0.8892	0.8935	0.8875	1	
517700014	2.0108	0.0649	0.5	0.5472	0.8665	2.0106	13.1453	5.3071	1.119	1.5182	0.0649	1.053	0.7745	0.7842	0.9674	0.7431	0.9637	0.755	1	
518100008	3.3872	0.05	0.5	0.8102	0.8746	3.2318	10.7958	7.9831	1.2122	2.7611	0.05	1.0847	0.7689	0.8353	0.9711	0.8212	0.9204	0.8151	1	
540030003	1.9294	0.1754	0.5	0.4629	0.6143	3.2784	11.2081	5.1916	4.7348	1.6505	0.1754	1.0556	0.7783	0.9118	0.9731	0.8377	1.0251	0.8555	1	
540090005	2.5967	0.3167	0.5	2.1872	1.6093	3.7453	8.7354	7.6364	3.5404	2.4156	0.3167	1.114	0.77	0.9387	0.9852	0.9275	0.9722	0.9303	1	
540090011	3.201	0.3857	0.5	2.6637	1.96	4.5614	10.6009	9.3004	4.3119	2.9419	0.3857	1.114	0.77	0.9387	0.9852	0.9275	0.9722	0.9191	1	
540110006	3.0839	0.0312	0.5	1.1505	1.3035	2.3576	11.7742	7.1683	0.2309	2.2671	0.0312	1.1304	0.777	0.7295	0.9907	0.7136	0.9029	0.7352	1	
540291004	4.5509	0.1281	0.5	1.6423	1.0293	3.5106	8.7631	9.7726	1.1315	3.2315	0.1281	1.1406	0.7553	0.7351	0.9915	0.7116	0.9544	0.7101	1	
540330003	3.1688	0.0159	0.5	0.9698	0.8804	2.8829	6.728	7.6488	1.5491	2.3186	0.0159	1.2034	0.8202	0.7784	0.9981	0.7322	1.059	0.7317	1	
540390010	3.6875	0.033	0.5	0.7237	0.9269	2.6286	9.6773	9.3861	0	2.4126	0.033	1.0753	0.7906	0.6534	0.9835	0.6541	1	0.6543	1	
540391005	3.6349	0.069	0.5	1.3137	1.1719	2.5271	11.9146	8.2891	0	2.5459	0.069	1.071	0.7887	0.6973	0.9843	0.6941	1	0.7004	1	
540490006	3.44	0.0072	0.5	1.1468	0.7022	2.5918	7.7446	7.8587	0.6972	2.2964	0.0072	1.2629	0.8088	0.6876	1.0002	0.6631	0.9781	0.6676	1	
540511002	2.8997	0.0303	0.5	0.7827	0.9298	2.9064	11.1128	7.9599	1.2029	2.3912	0.0303	1.2185	0.7742	0.8443	0.9974	0.8171	0.991	0.8246	1	
540610003	3.5504	0.0199	0.5	1.2357	0.7842	2.4977	7.681	7.7298	0.6674	2.1296	0.0199	1.2604	0.8111	0.6186	0.999	0.5918	0.9483	0.5998	1	
540690010	2.4206	0.133	0.5	1.2895	1.292	3.1745	7.6336	6.8253	2.5912	2.2011	0.133	1.1542	0.771	0.9251	0.993	0.9164	0.9645	0.9093	1	
540810002	2.9858	0.0366	0.5	0.5819	0.6571	2.1172	6.8912	7.7353	0	1.8693	0.0366	1.0842	0.7736	0.6262	0.9841	0.6258	1	0.6261	1	
541071002	3.4568	0	0.5	1.1712	0.709	2.8955	8.292	9.3714	0.913	2.3498	0	1.1657	0.7865	0.6972	0.9924	0.6686	0.9907	0.6798	1	
550030010	1.892	0.0122	0.5	0.573	0.3296	2.7692	2.9417	4.1303	4.3344	1.6502	0.0122	1.0572	0.7625	0.894	0.9695	0.8841	0.9019	0.8722	1	
550090005	1.7667	0.0927	0.5	0.2399	0.3416	3.1017	16.578	3.8969	5.9769	1.5558	0.0927	1.0446	0.7737	0.8817	0.9766	0.9652	0.8282	0.8806	1	
550250047	2.1217	0.2154	0.5	1.0354	0.5686	3.6893	10.7556	4.5155	7.2632	1.8378	0.2154	1.0601	0.707	0.8702	0.9669	0.9291	0.8293	0.8662	1	
550270007	2.2178	0.0973	0.5	0.3691	0.354	3.3826	7.5545	5.0557	5.3431	1.9924	0.0973	1.0774	0.7309	0.8866	0.9757	0.9385	0.8288	0.8984	1	
550410007	1.5387	0.0149	0.5	0.3549	0.2487	2.5017	6.1604	3.6077	4.1176	1.4013	0.0149	1.0738	0.7732	0.9097	0.9733	0.9562	0.8684	0.9107	1	
550430009	2.2588	0.2053	0.5	0.6555	0.497	4.0276	9.9403	4.4442	8.3149	1.9557	0.2053	1.057	0.7208	0.8781	0.9563	0.9648	0.8303	0.8658	1	
550590019	2.3581	0.0596	0.5	0.3571	0.4377	4.4232	5.7946	5.314	8.5875	2.1697	0.0596	1.0709	0.6958	0.9186	0.9576	0.9316	0.9098	0.9201	1	
550630012	1.6168	0.0215	0.5	0.4073	0.3706	2.7689	14.2032	2.6575	6.1929	1.3663	0.0215	1.0402	0.7187	0.8595	0.9512	0.9463	0.8227	0.8451	1	
550710007	1.4638	0.0359	0.5	0.5317	0.2574	2.2954	13.5909	3.1384	4.1404	1.2727	0.0359	1.0643	0.7411	0.8714	0.975	0.9083	0.8466	0.8695	1	
550790010	2.7181	0.0353	0.5	0.7542	0.6313	5.4663	7.1295	6.3586	10.7148	2.5802	0.0353	1.0683	0.8516	0.95	0.9757	0.9952	0.9198	0.9493	1	
550790026	2.5556	0.1063	0.5	0.7907	0.715	4.8097	9.4218	5.4281	9.6091	2.2682	0.1063	1.0852	0.7779	0.8976	0.9751	0.9352	0.873	0.8875	1	
550790043	2.5025	0.0982	0.5	0.765	0.7235	4.8173	9.3941	5.4884	9.5759	2.2749	0.0982	1.0687	0.8254	0.9108	0.9747	0.9531	0.8848	0.9091	1	
550790059	2.9549	0.0852	0.5	1.1247	0.7733	4.0838	7.6697	6.8192	5.5299	2.5733	0.0852	1.0653	0.7936	0.8766	0.973	0.8833	0.8639	0.8709	1	
550790099	2.691	0.0345	0.5	0.7469	0.5947	5.3841	6.6636	6.2586	10.5378	2.5337	0.0345	1.0825	0.8208	0.9458	0.9755	0.9913	0.9145	0.9415	1	
550870009	1.7226	0.0319	0.5	0.2318	0.2672	3.0652	15.0387	3.4582	6.4557	1.5527	0.0319	1.0382	0.8377	0.9151	0.9842	1.0227	0.8539	0.9014	1	
550890009	2.3599	0.1873	0.5	1.0191	0.6786	4.1069	5.2209	4.9453	8.0748	2.0139	0.1873	1.0674	0.7172	0.8577	0.9685	0.8978	0.8287	0.8534	1	
551091002	1.972	0.0975	0.5	0.4039	0.4279	3.24	5.071	3.5716	6.6741	1.7543	0.0975	1.0328	0.7277	0.885	0.9521	0.9519	0.8471	0.8896	1	
551110007	2.3041	0.1075	0.5	0.869	0.4777	3.5323	5.832	5.468	5.3433	2.1391	0.1075	1.076	0.7302	0.9092	0.972	0.9659	0.8462	0.9284	1	
551198001	2.5296	0.0162	0.5	1.096	0.4215	2.5902	11.9298	6.5518	0.9979	2.1712	0.0162	1.0832	0.733	0.8569	0.9784	0.8554	0.8159	0.8583	1	
551250001	2.5155	0.0266	0.5	0.9274	0.5285	3.5581	8.4204	6.1123	4.5361	2.2288	0.0266	1.0626	0.8232	0.8876	0.9708	0.9051	0.8597	0.886	1	
551330027	2.6974	0.0988	0.5	1.5832	0.5596	3.9222	6.337	6.2161	6.0294	2.5171	0.0988	1.1042	0.7429	0.9356	0.9756	0.9405	0.9351	0.9331	1	

ALPINE GEOPHYSICS

ENVIRON

Appendix D

MATS 2.3.1 Configuration Files

ALPINE GEOPHYSICS

ENVIRON

Table D-1. MATS 2.3.1 Configuration Files; MATS Config - 2014 Ozone BAU

```
RunPM25=0
RunPM25Quarterly=0
RunPM25Daily=0
RunVisibility=0
RunOzone=1
o3UseBackStop=0
UseDefMaxDist_o3=0
o3UseHighDayPairs=0
MonitoredSpeciatedData=C:\Program Files\Abt Associates\MATS\SampleData\Timin_sandwich_all.csv
FRMSiteData=C:\Program Files\Abt Associates\MATS\SampleData\FRM_ASIP_input.csv
TargetPointDataCount=0
ModelFutureYearDataCount=0
OutputFileName=C:\Program Files\Abt Associates\MATS\output\MOG 2008-2014 Ozone.asr
WindRecords=C:\Program Files\Abt Associates\MATS\SampleData\SimpleWind.csv
InterpolationsFile=C:\Program Files\Abt Associates\MATS\SampleData\Interpolations.csv
DefaultGeoMembership=C:\Program Files\Abt Associates\MATS\SampleData\GeoMembership.csv
ModelBaseYearData=C:\Program Files\Abt Associates\MATS\SampleData\pm_model_2001.csv
FRMDataBaseYear=2002
FRMDataBaseYearWindow=3
RunOutputForDefMesh=1
UseNH4AltCalc=0
AddDefMeshDataToTargets=1
TrackPctsCount=5
TrackPcts1=0.1
TrackPcts2=0.25
TrackPcts3=0.5
TrackPcts4=0.75
TrackPcts5=0.9
DefInterp=1
DefMaxDist=9000000000
FloorOCMValue=0.7
BCMFactor=1.4
NH4assNH3=0
BlankMass=0.5
ImgWidth=500
ImgHeight=400
outMonitorLocations=1
outNationalWalkView=0
NoGraphicalOutput=1
extract_asr_automatically=1
SIStartYear=2002
SIEndYear=2004
SIMinDays=11
SIMinQtr=1
SIMinYear=1
FRMStartYear=2002
FRMEndYear=2004
FRMMinDays=11
FRMMinDV=12
FRMMinDVC=10
FRMMinDVT=1
opMonSpatial=0
opGradAdjSpatial=0
opMonSpatialFore=0
opToFRMGradAdjFore=0
opToFRMGradAdj=0
opToFRMFore=1
opToFRM=0
opGradAdjSpatialFore=0
ModelFutureYearData_O3Count=1
ModelFutureYearData_O31=C:\Program Files\Abt
Associates\MATS\data\2014a1a.3612\matspp\moghaze.epaconf.2014a1_2014a1.cb05.a.3612.o3.12.mats.annual.csv
ModelBaseYearData_O3=C:\Program Files\Abt
Associates\MATS\data\moghaze.epaconf.2008aa2_2008aa1.cb05.a.3612.o3.12.mats.annual.csv
o3ReqDV=None selected
O3MonData=C:\Program Files\Abt Associates\MATS\sampledata\ozone_mats_input_9909-v1.csv
DefInterp_o3=1
DefMaxDist_o3=9000000000
O3StartYear=2009
O3EndYear=2009
O3MinDV=1
MaxDomainDist=25
MaxDomainDistVis=25
o3InitT=85
o3BackStop=60
O3MDBT=10
o3MinT=70
O3MDMT=5
o3TAG=1
o3GAG=0
o3TAS=0
o3TAG_s=1
o3GAG_s=1
o3TAS_s=1
```

```
opo3MonSpatial=0
opo3MonGASpatial=0
opo3MonSpatialTemp=0
opo3MonGASpatialTemp=0
opo3MonTemp=1
o3startrfday=1
o3endrfday=365
o3RRFAvg=5
o3SRFAvg=5
o3SRFStart=1
o3SRFEnd=5
ModelBaseYearData_vis=C:\Program Files\Abt Associates\MATS\SampleData\2002cc_EUS_PM25_sub.csv
ModelFutureYearData_visCount=1
ModelFutureYearData_vis1=C:\Program Files\Abt Associates\MATS\SampleData\2020cc_EUS_PM25_sub.csv
VisMonData=C:\Program Files\Abt Associates\MATS\SampleData\visibility_monitor_data_old_improve.csv
VisMonDataNew=C:\Program Files\Abt Associates\MATS\SampleData\2000-2006-daily IMPROVE-all data-new equation.csv
VisStartYear=2000
VisEndYear=2004
VisMinYear=3
VisBaseYear=0
visTAG=1
visTAG_s=0
visAttrFile=C:\Program Files\Abt Associates\MATS\SampleData\156-Class1-coordinates-all site names.csv
DefInterp_vis=1
DefMaxDist_vis=9000000000
opVisMon=0
opVisMonTemp=1
opUseAltLL=0
visAlgorithmVersion=1
qpm_doOutput_PeakData=1
qpm_doOutput_Standard=1
qpm_doOutput_QuarterlyModelData=1
qpm_doOutput_UsedQuarterlyModelData=1
qpm_doOutput_SpeciesFractions=1
qpm_doOutput_ForecastPointEstimates=0
qpm_doOutput_GradientAdjustedSpeciesFractions=0
qpm_doOutput_InterpolatedSFE_TempAdj=0
qpm_doOutput_InterpolatedSFE_TempAdj_GradAdj=0
qpm_doOutput_QAF_Point=1
qpm_doOutput_QAF_Point_GradAdj=0
qpm_doOutput_QAF_SpatialField=0
qpm_doOutput_QAF_SpatialField_GradAdj=0
qpm_doOutput_HighCountySites=1
qpm_doOutput_SpeciesFractionsField_SpatialField=0
qpm_doOutput_SpeciesFractionsField_SpatialField_GradAdj=0
qpm_doOutput_QuarterlyAverageSpeciatedMonitors=1
qpm_doOutput_NeighborFiles_Point=0
qpm_doOutput_NeighborFiles_SpatialField=0
qpm_doInput_SpeciesMonitorDataFile=1
qpm_File_SpeciesMonitorDataFile=C:\Program Files\Abt
Associates\MATS\SampleData\Species-for-fractions-0206-v2.csv
qpm_doInput_SpeciesFractionsFile=0
qpm_File_SpeciesFractionsFileModePoint=0
qpm_File_SpeciesFractionsFileModeSpatial=0
qpm_File_Unofficial_FRMDailyDataFile=C:\Program Files\Abt
Associates\MATS\SampleData\PM25-for-fractions-0206-v3.csv
qpm_File_Official_FRMQuarterlyAverageDataFile=C:\Program Files\Abt
Associates\MATS\SampleData\Annual-official-FRM-99-08-v2.csv
qpm_choice_UseQuarterlyModelData=0
qpm_BaselineModelDataFile=C:\Program Files\Abt Associates\MATS\SampleData\2002cc_EUS_PM25_sub.csv
qpm_ForecastModelDataFile=C:\Program Files\Abt Associates\MATS\SampleData\2020cc_EUS_PM25_sub.csv
qpm_IMPROVESTN_StartYear=2002
qpm_IMPROVESTN_EndYear=2004
qpm_IMPROVESTN_EPA_Deletions=1
qpm_IMPROVESTN_User_Deletions=0
qpm_IMPROVESTN_MinNumberOfValidDaysPerQuarter=11
qpm_IMPROVESTN_MinNumberOfValidQuartersPerYearForMonitor=1
qpm_IMPROVESTN_MinNumberOfValidYearsForMonitor=1
qpm_UnOfficialPM25_StartYear=2002
qpm_UnOfficialPM25_EndYear=2004
qpm_UnOfficialPM25_EPA_Deletions=1
qpm_UnOfficialPM25_User_Deletions=0
qpm_UnOfficialPM25_MinNumberOfValidDaysPerQuarter=11
qpm_UnOfficialPM25_MinNumberOfValidQuartersPerYearForMonitor=4
qpm_SpatialUnOfficialPM25_MinNumberOfValidQuartersPerYearForMonitor=1
qpm_UnOfficialPM25_MinNumberOfValidYearsForMonitor=1
qpm_choice_IMPROVESTN_DoUseAlldailyMonitorValuesGreaterThan=1
qpm_IMPROVESTN_UseAlldailyMonitorValuesGreaterThan=0
qpm_IMPROVESTN_MinumumNumberOfDaysRequiredAboveFixedAmount=1
qpm_choice_IMPROVESTN_DoTopXPercent=0
qpm_IMPROVESTN_TopXPercent=25
qpm_choice_IMPROVESTN_DoTopXValues=0
qpm_IMPROVESTN_TopXValues=25
qpm_choice_UnOfficialPM25_DoUseAlldailyMonitorValuesGreaterThan=1
```

```
qpm_UnOfficialPM25_UseAlldailyMonitorValuesGreaterThan=0
qpm_UnOfficialPM25_MinumumNumberOfDaysRequiredAboveFixedAmount=1
qpm_choice_UnOfficialPM25_DoTopXPercent=0
qpm_UnOfficialPM25_TopXPercent=25
qpm_choice_UnOfficialPM25_DoTopXValues=0
qpm_UnOfficialPM25_TopXValues=25
qpm_Interpolation_PM25=2
qpm_Interpolation_SO4=2
qpm_Interpolation_NOx=2
qpm_Interpolation_EC=2
qpm_Interpolation_Crustal=2
qpm_Interpolation_DON=2
qpm_Interpolation_OC=2
qpm_Interpolation_NH4=2
qpm_Interpolation_SALT=2
qpm_Interpolation_PM25_Distance=9000000000
qpm_Interpolation_SO4_Distance=9000000000
qpm_Interpolation_NOx_Distance=9000000000
qpm_Interpolation_EC_Distance=9000000000
qpm_Interpolation_Crustal_Distance=9000000000
qpm_Interpolation_DON_Distance=9000000000
qpm_Interpolation_OC_Distance=9000000000
qpm_Interpolation_NH4_Distance=9000000000
qpm_Interpolation_SALT_Distance=9000000000
qpm_choice_Misc_DoUseDONValues=1
qpm_choice_Misc_DoUseAmmoniumValues=0
qpm_Misc_NH4PercentageEvaporating=0
qpm_Misc_DefaultBlankMass=0.5
qpm_Misc_OrganicCarbon=1
qpm_OCMMB_ceiling=0.8
qpm_OfficialPM25_StartYear=2000
qpm_OfficialPM25_EndYear=2004
qpm_choice_UseOfficialDesignValues=1
qpm_choice_UseCustonDesignValues=0
qpm_choice_CalcNH4fromDON=1
qpm_ValidFRMQuarters=11
qpm_ValidFRMDesignValues=12
qpm_ValidFRMMonitors_MinimunNumberOfDesignValues=1
qpm_TemporalAdjustmentAtMonitorGrid=1
qpm_TemporalAdjustmentType=0
qpm_TemporalAdjustmentAtMonitorGridSpatial=0
qpm_TemporalAdjustmentTypeSpatial=0
qpm_choice_RRF_DoUseAllModelDaysGreaterThan=1
qpm_RRF_UseAllModelDaysGreaterThan=0
qpm_RRF_MinumumNumberOfDaysRequiredAboveFixedAmount=1
qpm_choice_RRF_DoTopXPercent=0
qpm_RRF_TopXPercent=25
qpm_choice_RRF_DoTopXValues=0
qpm_RRF_TopXValues=25
qpm_choice_Gradient_DoUseAllModelDaysGreaterThan=1
qpm_Gradient_UseAllModelDaysGreaterThan=0
qpm_Gradient_MinumumNumberOfDaysRequiredAboveFixedAmount=1
qpm_choice_Gradient_DoTopXPercent=0
qpm_Gradient_TopXPercent=25
qpm_choice_Gradient_DoTopXValues=0
qpm_Gradient_TopXValues=25
qpm_MaxDistCell=25
formdata=b2JqZWN0IHd6T3pvbmVBbmFseXNpc18xOiBUd3pPem9uZUFuYWx5c2lzDQogIExlZnQgPSAxMTgNCiAgVG9wID0gMjANCiAgQm9yZGV
yU3R5bGUgPSBic1Rvb2xXaW5kb3cNCiAgQ2xpZW50SGVpZ2h0ID0gNTA2DQogIENsaWVudFdpZHRoID0gNzgxDQogIENvbG9yID0gY2xCdG5GYWN
lDQogIEZvbnQuQ2hhcnNldCA9IERFRkFVTFRfQ0hBUlNFVA0KICBGb250LkNvbG9yID0gY2xXaW5kb3dUZXh0DQogIEZvbnQuSGVpZ2h0ID0gLTE
wDQogIEZvbnQuTmFtZSA9ICdNUyBTYW5zIFNlcmlmJw0KICBGb250LlN0eWxlID0gW10NCiAgT2xkQ3JlYXRlT3JkZXIgPSBGYWxzZQ0KICBQb3N
pdGlvbiA9IHBvRGVzaWduZWQNCiAgT25DcmVhdGUgPSBGb3JtQ3JlYXRlDQogIFBpeGVsc1BlckxuY2ggPSA5Ng0KICBUZXh0DQogICAgT25DcmVhdGUgPSBGb3JtQ3JlYXRlDQogICAgVmlzaWJsZSA9IGZhbHNlDQogICAgVGV4dCA9ICdNUyBTYW5zIFNlcmlmJw0KICAgIFBvc2l0aW9uID0gTmV4dCA1DQogICAgVGFiSW5kZXggPSAxDQogICAgVGV4dCA9ICdM
```

Table D-2. MATS 2.3.1 Configuration Files; MATS Config - 2014 Annual PM2.5

```
RunPM25=0
RunPM25Quarterly=1
RunPM25Daily=0
RunVisibility=0
RunOzone=0
o3UseBackStop=0
UseDefMaxDist_o3=0
o3UseHighDayPairs=0
MonitoredSpeciatedData=C:\Program Files\Abt Associates\MATS\SampleData\Timin_sandwich_all.csv
FRMSiteData=C:\Program Files\Abt Associates\MATS\SampleData\FRM_ASIP_input.csv
TargetPointDataCount=0
ModelFutureYearDataCount=1
ModelFutureYearData1=C:\Program Files\Abt Associates\MATS\SampleData\pm_model_2015.csv
OutputFileName=C:\Program Files\Abt Associates\MATS\output\MOG 2008-2014 Annual PM.asr
WindRecords=C:\Program Files\Abt Associates\MATS\SampleData\SimpleWind.csv
InterpolationsFile=C:\Program Files\Abt Associates\MATS\SampleData\Interpolations.csv
DefaultGeoMembership=C:\Program Files\Abt Associates\MATS\SampleData\GeoMembership.csv
ModelBaseYearData=C:\Program Files\Abt Associates\MATS\SampleData\pm_model_2001.csv
FRMDataBaseYear=2002
FRMDataBaseYearWindow=3
RunOutputForDefMesh=1
UseNH4AltCalc=0
AddDefMeshDataToTargets=1
TrackPctsCount=5
TrackPcts1=0.1
TrackPcts2=0.25
TrackPcts3=0.5
TrackPcts4=0.75
TrackPcts5=0.9
DefInterp=1
DefMaxDist=9000000000
FloorOCMValue=0.7
BCMFactor=1.4
NH4assNH3=0
BlankMass=0.5
ImgWidth=500
ImgHeight=400
outMonitorLocations=1
outNationalWalkView=0
NoGraphicalOutput=1
extract_asr_automatically=1
SIStartYear=2002
SIEndYear=2004
SIMinDays=11
SIMinQtr=1
SIMinYear=1
FRMStartYear=2002
FRMEndYear=2004
FRMMinDays=11
FRMMinDV=12
FRMMinDVC=10
FRMMinDVT=1
opMonSpatial=0
opGradAdjSpatial=0
opMonSpatialFore=0
opToFRMGradAdjFore=0
opToFRMGradAdj=0
opToFRMFore=1
opToFRM=0
opGradAdjSpatialFore=0
ModelFutureYearData_O3Count=1
ModelFutureYearData_O31=C:\Program Files\Abt Associates\MATS\SampleData\ozone_model_data_2015.csv
ModelBaseYearData_O3=C:\Program Files\Abt Associates\MATS\SampleData\ozone_model_data_2001.csv
O3MonData=C:\Program Files\Abt Associates\MATS\SampleData\OZONE_MATS_input_9908-v2.csv
DefInterp_o3=1
DefMaxDist_o3=100
O3StartYear=2001
O3EndYear=2003
O3MinDV=1
MaxDomainDist=25
MaxDomainDistVis=25
o3InitT=85
o3BackStop=60
O3MDBT=10
o3MinT=70
O3MDMT=5
o3TAG=1
o3GAG=0
o3TAS=0
o3TAG_s=1
o3GAG_s=1
o3TAS_s=1
opo3MonSpatial=0
opo3MonGASpatial=0
```

```
opo3MonSpatialTemp=0
opo3MonGASpatialTemp=0
opo3MonTemp=1
o3startrfday=1
o3endrfday=153
o3RRFAvg=5
o3SRFAvg=5
o3SRFStart=1
o3SRFEnd=5
ModelBaseYearData_vis=C:\Program Files\Abt Associates\MATS\SampleData\2002cc_EUS_PM25_sub.csv
ModelFutureYearData_visCount=1
ModelFutureYearData_vis1=C:\Program Files\Abt Associates\MATS\SampleData\2020cc_EUS_PM25_sub.csv
VisMonData=C:\Program Files\Abt Associates\MATS\SampleData\visibility_monitor_data_old_improve.csv
VisMonDataNew=C:\Program Files\Abt Associates\MATS\SampleData\2000-2006-daily IMPROVE-all data-new equation.csv
VisStartYear=2000
VisEndYear=2004
VisMinYear=3
VisBaseYear=0
visTAG=1
visTAG_s=0
visAttrFile=C:\Program Files\Abt Associates\MATS\SampleData\156-Class1-coordinates-all site names.csv
DefInterp_vis=1
DefMaxDist_vis=9000000000
opVisMon=0
opVisMonTemp=1
opUseAltLL=0
visAlgorithmVersion=1
qpm_doOutput_PeakData=1
qpm_doOutput_Standard=1
qpm_doOutput_QuarterlyModelData=1
qpm_doOutput_UsedQuarterlyModelData=1
qpm_doOutput_SpeciesFractions=1
qpm_doOutput_ForecastPointEstimates=0
qpm_doOutput_GradientAdjustedSpeciesFractions=0
qpm_doOutput_InterpolatedSFE_TempAdj=0
qpm_doOutput_InterpolatedSFE_TempAdj_GradAdj=0
qpm_doOutput_QAF_Point=1
qpm_doOutput_QAF_Point_GradAdj=0
qpm_doOutput_QAF_SpatialField=0
qpm_doOutput_QAF_SpatialField_GradAdj=0
qpm_doOutput_HighCountySites=1
qpm_doOutput_SpeciesFractionsField_SpatialField=0
qpm_doOutput_SpeciesFractionsField_SpatialField_GradAdj=0
qpm_doOutput_QuarterlyAverageSpeciatedMonitors=1
qpm_doOutput_NeighborFiles_Point=0
qpm_doOutput_NeighborFiles_SpatialField=0
qpm_doInput_SpeciesMonitorDataFile=1
qpm_File_SpeciesMonitorDataFile=C:\Program Files\Abt
Associates\MATS\SampleData\Species-for-fractions-0206-v2.csv
qpm_doInput_SpeciesFractionsFile=0
qpm_File_SpeciesFractionsFileModePoint=0
qpm_File_SpeciesFractionsFileModeSpatial=0
qpm_File_Unofficial_FRMDailyDataFile=C:\Program Files\Abt
Associates\MATS\SampleData\PM25-for-fractions-0206-v3.csv
qpm_File_Official_FRMQuarterlyAverageDataFile=C:\Program Files\Abt
Associates\MATS\SampleData\Annual-official-FRM-99-08-v2.csv
qpm_choice_UseQuarterlyModelData=0
qpm_BaselineModelDataFile=C:\Program Files\Abt
Associates\MATS\data\moghaze.epaconf.2008aa2_2008aa1.cb05.a.3612.pm25.12.mats.annual.csv
qpm_ForecastModelDataFile=C:\Program Files\Abt
Associates\MATS\data\2014a1a.3612\matspp\moghaze.epaconf.2014a1_2014a1.cb05.a.3612.pm25.12.mats.annual.csv
qpm_IMPROVESTN_StartYear=2004
qpm_IMPROVESTN_EndYear=2006
qpm_IMPROVESTN_EPA_Deletions=1
qpm_IMPROVESTN_User_Deletions=0
qpm_IMPROVESTN_MinNumberOfValidDaysPerQuarter=11
qpm_IMPROVESTN_MinNumberOfValidQuartersPerYearForMonitor=1
qpm_IMPROVESTN_MinNumberOfValidYearsForMonitor=1
qpm_UnOfficialPM25_StartYear=2004
qpm_UnOfficialPM25_EndYear=2006
qpm_UnOfficialPM25_EPA_Deletions=1
qpm_UnOfficialPM25_User_Deletions=0
qpm_UnOfficialPM25_MinNumberOfValidDaysPerQuarter=11
qpm_UnOfficialPM25_MinNumberOfValidQuartersPerYearForMonitor=4
qpm_SpatialUnOfficialPM25_MinNumberOfValidQuartersPerYearForMonitor=1
qpm_UnOfficialPM25_MinNumberOfValidYearsForMonitor=1
qpm_choice_IMPROVESTN_DoUseAlldailyMonitorValuesGreaterThan=1
qpm_IMPROVESTN_UseAlldailyMonitorValuesGreaterThan=0
qpm_IMPROVESTN_MinumumNumberOfDaysRequiredAboveFixedAmount=1
qpm_choice_IMPROVESTN_DoTopXPercent=0
qpm_IMPROVESTN_TopXPercent=25
qpm_choice_IMPROVESTN_DoTopXValues=0
qpm_IMPROVESTN_TopXValues=25
qpm_choice_UnOfficialPM25_DoUseAlldailyMonitorValuesGreaterThan=1
```

qpm_UnOfficialPM25_UseAlldailyMonitorValuesGreaterThan=0
qpm_UnOfficialPM25_MinumumNumberOfDaysRequiredAboveFixedAmount=1
qpm_choice_UnOfficialPM25_DoTopXPercent=0
qpm_UnOfficialPM25_TopXPercent=25
qpm_choice_UnOfficialPM25_DoTopXValues=0
qpm_UnOfficialPM25_TopXValues=25
qpm_Interpolation_PM25=2
qpm_Interpolation_SO4=2
qpm_Interpolation_NOx=2
qpm_Interpolation_EC=2
qpm_Interpolation_Crustal=2
qpm_Interpolation_DON=2
qpm_Interpolation_OC=2
qpm_Interpolation_NH4=2
qpm_Interpolation_SALT=2
qpm_Interpolation_PM25_Distance=9000000000
qpm_Interpolation_SO4_Distance=9000000000
qpm_Interpolation_NOx_Distance=9000000000
qpm_Interpolation_EC_Distance=9000000000
qpm_Interpolation_Crustal_Distance=9000000000
qpm_Interpolation_DON_Distance=9000000000
qpm_Interpolation_OC_Distance=9000000000
qpm_Interpolation_NH4_Distance=9000000000
qpm_Interpolation_SALT_Distance=9000000000
qpm_choice_Misc_DoUseDONValues=1
qpm_choice_Misc_DoUseAmmoniumValues=0
qpm_Misc_NH4PercentageEvaporating=0
qpm_Misc_DefaultBlankMass=0.5
qpm_Misc_OrganicCarbon=1
qpm_OCMMB_ceiling=0.8
qpm_OfficialPM25_StartYear=2006
qpm_OfficialPM25_EndYear=2008
qpm_choice_UseOfficialDesignValues=1
qpm_choice_UseCustonDesignValues=0
qpm_choice_CalcNH4fromDON=1
qpm_ValidFRMQuarters=11
qpm_ValidFRMDesignValues=12
qpm_ValidFRMMonitors_MinimunNumberOfDesignValues=1
qpm_ValidFRMMonitors_RequiredDesignValues=None selected
qpm_TemporalAdjustmentAtMonitorGrid=1
qpm_TemporalAdjustmentType=0
qpm_TemporalAdjustmentAtMonitorGridSpatial=0
qpm_TemporalAdjustmentTypeSpatial=0
qpm_choice_RRF_DoUseAllModelDaysGreaterThan=1
qpm_RRF_UseAllModelDaysGreaterThan=0
qpm_RRF_MinumumNumberOfDaysRequiredAboveFixedAmount=1
qpm_choice_RRF_DoTopXPercent=0
qpm_RRF_TopXPercent=25
qpm_choice_RRF_DoTopXValues=0
qpm_RRF_TopXValues=25
qpm_choice_Gradient_DoUseAllModelDaysGreaterThan=1
qpm_Gradient_UseAllModelDaysGreaterThan=0
qpm_Gradient_MinumumNumberOfDaysRequiredAboveFixedAmount=1
qpm_choice_Gradient_DoTopXPercent=0
qpm_Gradient_TopXPercent=25
qpm_choice_Gradient_DoTopXValues=0
qpm_Gradient_TopXValues=25
qpm_MaxDistCell=25
formdata=b2JqZWN0IHd6UXVhcnRlcmx5UE1BbmFseXNpczogVHd6UXVhcnRlcmx5UE1BbmFseXNpcw0KICBMZWZ0ID0gNDEyDQogIFRvcCA9IDI
zMQ0KICBCb3JkZXJTdHlsZSA9IGJzU2l6ZVRvb2xXaW4NCiAgQ2FwdGlvbiA9ICdBbm51YWwgUE0gQW5hbHlzaXMnDQogIENsaWVudEhlaWdodCA
9IDUzMg0KICBDbGllbnRXaWR0aCA9IDg0OA0KICBDb2xvciA9IGNsQnRuRmFjZQ0KICBGb250LkNoYXJzZXQgPSBERUZBVUxUX0NIQVJTRVQNCiA
gRm9udC5Db2xvciA9IGNsV2luZG93VGV4dA0KICBGb250LkhlaWdodCA9IC0xMA0KICBGb250Lk5hbWUgPSAnTVMgU2FucyBTZXJpZicNCiAgRm9
udC5TdHlsZSA9IFtdDQogIE9sZENyZWF0ZU9yZGVyID0gRmFsc2UNCiAgUG9zaXRpb24gPSBwb0Rlc2lnbmVkDQogIFNob3dIaW50ID0gVHJ1ZQ0
KICBPbkNyZWF0ZSA9IEZvcm1DcmVhdGUNCiAgUGl4ZWxzUGVySW5jaCA9IDk2DQogIFRleHRIZWlnaHQgPSAxMw0KICBvYmplY3QgU2hhcGVOOiB
UU2hhcGUNCiAgICBMZWZ0ID0gMTANCiAgICBUb3AgPSA2Nw0KICAgIFdpZHRoID0gNQ0KICAgSGVpZ2h0ID0gNQ0KICAgIEJydXNoLkNvbG9
yID0gY2xCbGFjaw0KICAgIFNoYXBlID0gc3RSb3VuZFJlY3QNCiAgZW5kDQogIG9iamVjdCBXaXphcmQ6IFRKdldpemFyZA0KICAgIExlZnQgPSA
wDQogICAgVG9wID0gMA0KICAgIFdpZHRoID0gODQ4DQogICAgSGVpZ2h0ID0gNTMyDQogICAgQWN0aXZlUGFnZSA9IEZpbmFsUGFnZQ0KICAgIEJ
1dHRvbkJhckhlaWdodCA9IDQyDQogICAgQnV0dG9uU3RhcnQuQ2FwdGlvbiA9ICdUbyAmU3RhcnQgUGFnZScNCiAgICBCdXR0b25TdGFydC5OdW1
HbHlwaHMgPSAxDQogICAgQnV0dG9uU3RhcnQuV2lkdGggPSA2OQ0KICAgIEJ1dHRvbkxhc3QuQ2FwdGlvbiA9ICdUbyAmTGFzdCBQYWdlJw0KICA
gIEJ1dHRvbkxhc3QuTnVtR2x5cGhzID0gMQ0KICAgIEJ1dHRvbkxhc3QuV2lkdGggPSA2OQ0KICAgIEJ1dHRvbkJhY2suQ2FwdGlvbiA9ICc8ICZ
CYWNrJw0KICAgIEJ1dHRvbkJhY2suTnVtR2x5cGhzID0gMQ0KICAgIEJ1dHRvbkJhY2suV2lkdGggPSA2MQ0KICAgIEJ1dHRvbk5leHQuQ2FwdGl
vbiA9ICcmTmV4dCA+Jw0KICAgIEJ1dHRvbk5leHQuTnVtR2x5cGhzID0gMQ0KICAgIEJ1dHRvbk5leHQuV2lkdGggPSA2MQ0KICAgIEJ1dHRvbkZ
pbmlzaC5DYXB0aW9uID0gJ1NhdmUgU2NlbmFyaW8gJiYgUnVuJw0KICAgIEJ1dHRvbkZpbmlzaC5OdW1HbHlwaHMgPSAxDQogICAgQnV0dG9uRml
uaXNoLldpZHRoID0gMTIwDQogICAgQnV0dG9uQ2FuY2VsLkNhcHRpb24gPSAnQ2FuY2VsJw0KICAgIEJ1dHRvbkNhbmNlbC5OdW1HbHlwaHMgPSA
xDQogICAgQnV0dG9uQ2FuY2VsLk1vZGFsUmVzdWx0ID0gMg0KICAgIEJ1dHRvbkNhbmNlbC5XaWR0aCA9IDYxDQogICAgQnV0dG9uSGVscC5DYXB
0aW9uID0gJ1NhdmUgU2NlbmFyaW8nDQogICAgQnV0dG9uSGVscC5OdW1HbHlwaHMgPSAxDQogICAgQnV0dG9uSGVscC5XaWR0aCA9IDEyMA0KICA
gIFNob3dSb3V0ZU1hcCA9IFRydWUNCiAgICBPbkJhY2tCdXR0b25DbGljayA9IFdpemFyZEJhY2tCdXR0b25DbGljaw0KICAgIE9uTmV4dEJ1dHR
vbkNsaWNrID0gV2l6YXJkTmV4dEJ1dHRvbkNsaWNrQogICAgT25GaW5pc2hCdXR0b25DbGljayA9IFdpemFyZEZpbmlzaEJ1dHRvbkNsaWNrQQo
gICAgT25IZWxwQnV0dG9uQ2xpY2sgPSBXaXphcmRIZWxwQnV0dG9uQ2xpY2sNCiAgICBEZXNpZ25TaXplID0gKA0KICAgICAgICAgICAgICAgICAgICA
1MzIpDQogICAgb2JqZWN0IEp2V2l6YXJkSW50ZXJpb3JQYWdlMTogVEp2V2l6YXJkSW50ZXJpb3JQYWdlDQogICAgICAgICAgICAgICAgICAgICAgICA
udCA9IEZhbHNlDQogICAgICAgICAgICAgICAgICAgICAg

Table D-3. MATS 2.3.1 Configuration Files; MATS Config - 2014 Daily PM2.5

```
RunPM25=0
RunPM25Quarterly=0
RunPM25Daily=1
RunVisibility=0
RunOzone=0
o3UseBackStop=0
UseDefMaxDist_o3=0
o3UseHighDayPairs=0
MonitoredSpeciatedData=C:\Program Files\Abt Associates\MATS\SampleData\Timin_sandwich_all.csv
FRMSiteData=C:\Program Files\Abt Associates\MATS\SampleData\FRM_ASIP_input.csv
TargetPointDataCount=0
ModelFutureYearDataCount=1
ModelFutureYearData1=C:\Program Files\Abt Associates\MATS\SampleData\pm_model_2015.csv
OutputFileName=C:\Program Files\Abt Associates\MATS\output\MOG 2008-2014 Daily PM.asr
WindRecords=C:\Program Files\Abt Associates\MATS\SampleData\SimpleWind.csv
InterpolationsFile=C:\Program Files\Abt Associates\MATS\SampleData\Interpolations.csv
DefaultGeoMembership=C:\Program Files\Abt Associates\MATS\SampleData\GeoMembership.csv
ModelBaseYearData=C:\Program Files\Abt Associates\MATS\SampleData\pm_model_2001.csv
FRMDataBaseYear=2002
FRMDataBaseYearWindow=3
RunOutputForDefMesh=1
UseNH4AltCalc=0
AddDefMeshDataToTargets=1
TrackPctsCount=5
TrackPcts1=0.1
TrackPcts2=0.25
TrackPcts3=0.5
TrackPcts4=0.75
TrackPcts5=0.9
DefInterp=1
DefMaxDist=9000000000
FloorOCMValue=0.7
BCMFactor=1.4
NH4assNH3=0
BlankMass=0.5
ImgWidth=500
ImgHeight=400
outMonitorLocations=1
outNationalWalkView=0
NoGraphicalOutput=1
extract_asr_automatically=1
SIStartYear=2002
SIEndYear=2004
SIMinDays=11
SIMinQtr=1
SIMinYear=1
FRMStartYear=2002
FRMEndYear=2004
FRMMinDays=11
FRMMinDV=12
FRMMinDVC=10
FRMMinDVT=1
opMonSpatial=0
opGradAdjSpatial=0
opMonSpatialFore=0
opToFRMGradAdjFore=0
opToFRMGradAdj=0
opToFRMFore=1
opToFRM=0
opGradAdjSpatialFore=0
ModelFutureYearData_O3Count=1
ModelFutureYearData_O31=C:\Program Files\Abt Associates\MATS\SampleData\ozone_model_data_2015.csv
ModelBaseYearData_O3=C:\Program Files\Abt Associates\MATS\SampleData\ozone_model_data_2001.csv
O3MonData=C:\Program Files\Abt Associates\MATS\SampleData\OZONE_MATS_input_9908-v2.csv
DefInterp_o3=1
DefMaxDist_o3=100
O3StartYear=2001
O3EndYear=2003
O3MinDV=1
MaxDomainDist=25
MaxDomainDistVis=25
o3InitT=85
o3BackStop=60
O3MDBT=10
o3MinT=70
O3MDMT=5
o3TAG=1
o3GAG=0
o3TAS=0
o3TAG_s=1
o3GAG_s=1
o3TAS_s=1
opo3MonSpatial=0
opo3MonGASpatial=0
```

```
opo3MonSpatialTemp=0
opo3MonGASpatialTemp=0
opo3MonTemp=1
o3startrfday=1
o3endrfday=153
o3RRFAvg=5
o3SRFAvg=5
o3SRFStart=1
o3SRFEnd=5
ModelBaseYearData_vis=C:\Program Files\Abt Associates\MATS\SampleData\2002cc_EUS_PM25_sub.csv
ModelFutureYearData_visCount=1
ModelFutureYearData_vis1=C:\Program Files\Abt Associates\MATS\SampleData\2020cc_EUS_PM25_sub.csv
VisMonData=C:\Program Files\Abt Associates\MATS\SampleData\visibility_monitor_data_old_improve.csv
VisMonDataNew=C:\Program Files\Abt Associates\MATS\SampleData\2000-2006-daily IMPROVE-all data-new equation.csv
VisStartYear=2000
VisEndYear=2004
VisMinYear=3
VisBaseYear=0
visTAG=1
visTAG_s=0
visAttrFile=C:\Program Files\Abt Associates\MATS\SampleData\156-Class1-coordinates-all site names.csv
DefInterp_vis=1
DefMaxDist_vis=9000000000
opVisMon=0
opVisMonTemp=1
opUseAltLL=0
visAlgorithmVersion=1
qpm_doOutput_PeakData=1
qpm_doOutput_Standard=1
qpm_doOutput_QuarterlyModelData=0
qpm_doOutput_UsedQuarterlyModelData=1
qpm_doOutput_SpeciesFractions=1
qpm_doOutput_ForecastPointEstimates=0
qpm_doOutput_GradientAdjustedSpeciesFractions=0
qpm_doOutput_InterpolatedSFE_TempAdj=0
qpm_doOutput_InterpolatedSFE_TempAdj_GradAdj=0
qpm_doOutput_QAF_Point=1
qpm_doOutput_QAF_Point_GradAdj=0
qpm_doOutput_QAF_SpatialField=0
qpm_doOutput_QAF_SpatialField_GradAdj=0
qpm_doOutput_HighCountySites=1
qpm_doOutput_SpeciesFractionsField_SpatialField=0
qpm_doOutput_SpeciesFractionsField_SpatialField_GradAdj=0
qpm_doOutput_QuarterlyAverageSpeciatedMonitors=1
qpm_doOutput_NeighborFiles_Point=0
qpm_doOutput_NeighborFiles_SpatialField=0
qpm_doInput_SpeciesMonitorDataFile=1
qpm_File_SpeciesMonitorDataFile=C:\Program Files\Abt
Associates\MATS\SampleData\Species-for-fractions-0206-v2.csv
qpm_doInput_SpeciesFractionsFile=0
qpm_File_SpeciesFractionsFileModePoint=0
qpm_File_SpeciesFractionsFileModeSpatial=0
qpm_File_Unofficial_FRMDailyDataFile=C:\Program Files\Abt
Associates\MATS\SampleData\PM25-for-fractions-0206-v3.csv
qpm_File_Official_FRMQuarterlyAverageDataFile=C:\Program Files\Abt
Associates\MATS\SampleData\24-hr-official-FRM-99-08-v2.csv
qpm_choice_UseQuarterlyModelData=0
qpm_BaselineModelDataFile=C:\Program Files\Abt
Associates\MATS\data\moghaze.epaconf.2008aa2_2008aa1.cb05.a.3612.pm25.12.mats.annual.csv
qpm_ForecastModelDataFile=C:\Program Files\Abt
Associates\MATS\data\2014a1a.3612\matspp\moghaze.epaconf.2014a1_2014a1.cb05.a.3612.pm25.12.mats.annual.csv
qpm_IMPROVESTN_StartYear=2004
qpm_IMPROVESTN_EndYear=2006
qpm_IMPROVESTN_EPA_Deletions=1
qpm_IMPROVESTN_User_Deletions=0
qpm_IMPROVESTN_MinNumberOfValidDaysPerQuarter=11
qpm_IMPROVESTN_MinNumberOfValidQuartersPerYearForMonitor=1
qpm_IMPROVESTN_MinNumberOfValidYearsForMonitor=1
qpm_UnOfficialPM25_StartYear=2004
qpm_UnOfficialPM25_EndYear=2006
qpm_UnOfficialPM25_EPA_Deletions=1
qpm_UnOfficialPM25_User_Deletions=0
qpm_UnOfficialPM25_MinNumberOfValidDaysPerQuarter=11
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qpm_UnOfficialPM25_MinNumberOfValidYearsForMonitor=1
qpm_choice_IMPROVESTN_DoUseAlldailyMonitorValuesGreaterThan=0
qpm_IMPROVESTN_UseAlldailyMonitorValuesGreaterThan=0
qpm_IMPROVESTN_MinumumNumberOfDaysRequiredAboveFixedAmount=1
qpm_choice_IMPROVESTN_DoTopXPercent=1
qpm_IMPROVESTN_TopXPercent=10
qpm_choice_IMPROVESTN_DoTopXValues=0
qpm_IMPROVESTN_TopXValues=25
qpm_choice_UnOfficialPM25_DoUseAlldailyMonitorValuesGreaterThan=0
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qpm_UnOfficialPM25_UseAlldailyMonitorValuesGreaterThan=0
qpm_UnOfficialPM25_MinumumNumberOfDaysRequiredAboveFixedAmount=1
qpm_choice_UnOfficialPM25_DoTopXPercent=1
qpm_UnOfficialPM25_TopXPercent=10
qpm_choice_UnOfficialPM25_DoTopXValues=0
qpm_UnOfficialPM25_TopXValues=25
qpm_Interpolation_PM25=2
qpm_Interpolation_SO4=2
qpm_Interpolation_NOx=2
qpm_Interpolation_EC=2
qpm_Interpolation_Crustal=2
qpm_Interpolation_DON=2
qpm_Interpolation_OC=2
qpm_Interpolation_NH4=2
qpm_Interpolation_SALT=2
qpm_Interpolation_PM25_Distance=9000000000
qpm_Interpolation_SO4_Distance=9000000000
qpm_Interpolation_NOx_Distance=9000000000
qpm_Interpolation_EC_Distance=9000000000
qpm_Interpolation_Crustal_Distance=9000000000
qpm_Interpolation_DON_Distance=9000000000
qpm_Interpolation_OC_Distance=9000000000
qpm_Interpolation_NH4_Distance=9000000000
qpm_Interpolation_SALT_Distance=9000000000
qpm_choice_Misc_DoUseDONValues=1
qpm_choice_Misc_DoUseAmmoniumValues=0
qpm_Misc_NH4PercentageEvaporating=0
qpm_Misc_DefaultBlankMass=0.5
qpm_Misc_OrganicCarbon=1
qpm_OCMMB_ceiling=0.8
qpm_OfficialPM25_StartYear=2006
qpm_OfficialPM25_EndYear=2008
qpm_choice_UseOfficialDesignValues=1
qpm_choice_UseCustonDesignValues=0
qpm_choice_CalcNH4fromDON=1
qpm_ValidFRMQuarters=11
qpm_ValidFRMDesignValues=12
qpm_ValidFRMMonitors_MinimunNumberOfDesignValues=1
qpm_ValidFRMMonitors_RequiredDesignValues=None selected
qpm_TemporalAdjustmentAtMonitorGrid=0
qpm_TemporalAdjustmentType=0
qpm_TemporalAdjustmentAtMonitorGridSpatial=0
qpm_TemporalAdjustmentTypeSpatial=0
qpm_choice_RRF_DoUseAllModelDaysGreaterThan=0
qpm_RRF_UseAllModelDaysGreaterThan=0
qpm_RRF_MinumumNumberOfDaysRequiredAboveFixedAmount=1
qpm_choice_RRF_DoTopXPercent=1
qpm_RRF_TopXPercent=10
qpm_choice_RRF_DoTopXValues=0
qpm_RRF_TopXValues=25
qpm_choice_Gradient_DoUseAllModelDaysGreaterThan=0
qpm_Gradient_UseAllModelDaysGreaterThan=0
qpm_Gradient_MinumumNumberOfDaysRequiredAboveFixedAmount=1
qpm_choice_Gradient_DoTopXPercent=1
qpm_Gradient_TopXPercent=10
qpm_choice_Gradient_DoTopXValues=0
qpm_Gradient_TopXValues=25
qpm_MaxDistCell=25
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Appendix E

State-Sector-Scenario Emission Inventory Summaries

ALPINE GEOPHYSICS

ENVIRON

Table E-1. State-Sector-Scenario Emission Inventory Summaries; 2008 Emissions

2008 Base Year Emissions Inventory
State Level Totals - 36km Domain

		2008 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Alabama	C3 CMV	1.311	6.307	0.225		4.116	0.545	0.502
Alabama	EGU	30.174	310.410	16.483	0.413	984.490	69.767	60.278
Alabama	Non-EGU Point	479.280	201.740	98.954	6.510	185.680	71.156	54.141
Alabama	Nonpoint	1110.600	144.730	520.430	175.930	147.460	436.750	163.490
Alabama	Nonroad	804.920	70.836	130.150	0.075	1.235	7.260	6.885
Alabama	Onroad	2196.082	272.162	192.737	15.686	1.898	7.894	5.119
Alabama Total		**4622.367**	**1006.185**	**958.979**	**198.614**	**1324.878**	**593.374**	**290.415**
Arizona	EGU	19.395	215.020	2.118	1.891	131.820	27.555	21.890
Arizona	Non-EGU Point	133.020	51.169	20.259	0.204	66.402	18.645	10.849
Arizona	Nonpoint	295.260	91.139	256.720	94.329	10.686	467.560	87.359
Arizona	Nonroad	998.890	91.660	116.020	0.103	1.808	9.420	8.978
Arizona	Onroad	2056.740	314.000	186.096	16.875	2.178	9.166	6.061
Arizona Total		**3503.305**	**762.988**	**581.213**	**113.402**	**212.894**	**532.346**	**135.137**
Arkansas	EGU	11.469	103.560	1.294	0.095	200.790	6.723	5.836
Arkansas	Non-EGU Point	205.650	103.890	90.623	5.510	35.920	42.137	30.003
Arkansas	Nonpoint	896.010	154.880	321.310	343.090	79.899	426.310	147.750
Arkansas	Nonroad	553.080	67.895	89.246	0.064	1.237	7.022	6.703
Arkansas	Onroad	1352.932	157.416	102.907	8.893	1.097	4.374	2.810
Arkansas Total		**3019.141**	**587.641**	**605.380**	**357.652**	**318.944**	**486.566**	**193.102**
California	C3 CMV	31.337	365.750	12.762		225.610	30.106	27.698
California	EGU	13.989	13.211	0.454	2.079	0.711	5.674	5.091
California	Non-EGU Point	554.900	295.150	154.180	32.608	94.330	108.360	62.319
California	Nonpoint	1699.100	733.040	1620.700	481.320	271.760	1076.200	346.420
California	Nonroad	5517.400	447.080	596.530	0.498	0.554	43.664	41.508
California	Onroad	11456.712	1247.041	909.096	92.710	9.780	38.903	23.351
California Total		**19273.438**	**3101.272**	**3293.722**	**609.215**	**602.746**	**1302.907**	**506.387**
Colorado	EGU	25.900	170.650	0.976	0.581	155.400	15.607	12.808
Colorado	Non-EGU Point	120.510	82.755	74.280	0.336	18.331	39.671	20.439
Colorado	Nonpoint	256.490	161.790	332.190	178.080	20.082	360.330	72.163
Colorado	Nonroad	799.320	84.284	93.193	0.087	1.611	8.647	8.250
Colorado	Onroad	2328.055	221.838	149.156	12.794	1.492	6.083	3.875
Colorado Total		**3530.275**	**721.317**	**649.795**	**191.877**	**196.916**	**430.338**	**117.534**
Connecticut	C3 CMV	0.333	3.991	0.136		2.722	0.341	0.314
Connecticut	EGU	4.857	10.928	0.538	0.001	20.410	1.415	1.063
Connecticut	Non-EGU Point	22.389	16.912	7.401	0.407	5.359	1.058	0.780
Connecticut	Nonpoint	372.630	46.493	258.740	17.215	49.761	76.602	49.880
Connecticut	Nonroad	516.200	43.320	66.530	0.045	0.666	3.886	3.685
Connecticut	Onroad	1087.452	99.184	62.327	9.167	0.940	3.247	1.852
Connecticut Total		**2003.861**	**220.827**	**395.672**	**26.836**	**79.857**	**86.550**	**57.574**
Delaware	C3 CMV	1.464	16.957	0.619		32.303	1.445	1.329
Delaware	EGU	3.530	31.617	0.288	0.139	93.378	6.247	5.401
Delaware	Non-EGU Point	28.257	9.231	10.918	0.461	28.113	3.863	2.892
Delaware	Nonpoint	69.586	22.915	37.622	38.936	17.679	27.050	11.042
Delaware	Nonroad	140.880	12.999	18.248	0.014	0.224	1.239	1.179
Delaware	Onroad	304.247	38.288	23.325	2.587	0.253	1.147	0.713
Delaware Total		**547.964**	**132.007**	**91.020**	**42.136**	**171.950**	**40.992**	**22.557**
District of Columbia	C3 CMV	0.000	0.004	0.000		0.002	0.000	0.000
District of Columbia	EGU	0.294	0.752	0.019	0.014	0.585	0.1314	0.05275
District of Columbia	Non-EGU Point	0.710	1.631	0.196	0.009	2.542	0.225	0.177
District of Columbia	Nonpoint	4.723	5.628	16.276	0.357	3.904	4.792	1.086
District of Columbia	Nonroad	38.634	7.392	4.005	0.007	0.159	0.627	0.604
District of Columbia	Onroad	127.556	15.407	10.146	1.113	0.107	0.422	0.244
District of Columbia Total		**171.918**	**30.813**	**30.642**	**1.500**	**7.300**	**6.198**	**2.165**
Florida	C3 CMV	31.203	375.640	13.094		245.600	32.167	29.591
Florida	EGU	95.166	440.690	5.940	3.796	802.330	75.881	66.243
Florida	Non-EGU Point	432.790	180.100	104.960	6.786	162.520	87.743	71.038
Florida	Nonpoint	896.550	193.000	1432.400	106.880	197.150	544.990	174.610
Florida	Nonroad	3606.200	293.890	507.360	0.351	5.674	29.964	28.494

* PM emissions include application of PM transport factor to fugitive dust sources

2008 Base Year Emissions Inventory
State Level Totals - 36km Domain

		2008 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Florida	Onroad	8104.384	823.014	906.411	55.882	6.222	24.494	15.191
Florida Total		**13166.293**	**2306.334**	**2970.165**	**173.694**	**1419.496**	**795.239**	**385.167**
Georgia	C3 CMV	1.938	22.888	0.831		17.939	1.938	1.783
Georgia	EGU	31.881	290.320	4.156	0.112	1410.300	94.477	75.890
Georgia	Non-EGU Point	321.790	161.740	92.762	15.269	155.390	48.001	36.045
Georgia	Nonpoint	1278.100	206.360	790.550	245.270	158.880	719.240	251.740
Georgia	Nonroad	1552.000	137.040	180.330	0.144	2.537	13.742	13.084
Georgia	Onroad	4529.863	591.233	438.107	29.088	3.926	15.884	10.499
Georgia Total		**7715.572**	**1409.581**	**1506.736**	**289.883**	**1748.972**	**893.282**	**389.041**
Idaho	EGU	0.249	0.344	0.006	0.019	0.010	0.135	0.103
Idaho	Non-EGU Point	95.091	29.112	5.735	3.388	47.073	8.994	5.937
Idaho	Nonpoint	382.960	104.720	183.140	175.790	7.635	492.120	109.440
Idaho	Nonroad	310.720	38.548	59.899	0.041	0.737	4.395	4.186
Idaho	Onroad	733.918	72.734	48.739	3.665	0.465	1.822	1.171
Idaho Total		**1522.937**	**245.458**	**297.518**	**182.903**	**55.919**	**507.465**	**120.836**
Illinois	C3 CMV	0.023	0.295	0.010		0.184	0.024	0.022
Illinois	EGU	154.890	339.350	5.187	1.206	762.390	50.630	37.731
Illinois	Non-EGU Point	345.110	266.750	178.390	3.313	287.390	66.530	40.902
Illinois	Nonpoint	424.770	394.670	755.930	311.430	28.415	1283.100	224.940
Illinois	Nonroad	1817.000	272.560	217.530	0.260	5.130	23.775	22.787
Illinois	Onroad	4650.959	523.808	323.093	29.162	3.555	14.301	9.191
Illinois Total		**7392.752**	**1797.433**	**1480.140**	**345.371**	**1087.064**	**1438.361**	**335.574**
Indiana	C3 CMV	0.011	0.129	0.004		0.088	0.011	0.010
Indiana	EGU	29.989	540.010	3.841	2.639	1630.100	114.930	93.219
Indiana	Non-EGU Point	1004.600	205.280	138.850	3.203	272.550	72.667	42.207
Indiana	Nonpoint	507.510	205.620	452.230	260.390	168.000	1053.100	233.540
Indiana	Nonroad	996.440	153.290	128.430	0.137	2.765	12.735	12.196
Indiana	Onroad	3162.740	334.384	221.608	19.224	2.301	9.523	6.146
Indiana Total		**5701.289**	**1438.713**	**944.963**	**285.592**	**2075.804**	**1262.966**	**387.319**
Iowa	EGU	9.878	134.310	1.136	0.125	300.320	30.463	27.807
Iowa	Non-EGU Point	111.400	111.090	79.309	2.937	177.130	27.779	15.493
Iowa	Nonpoint	276.440	118.650	233.390	712.120	57.751	903.710	150.070
Iowa	Nonroad	631.050	156.290	101.940	0.135	2.837	14.211	13.677
Iowa	Onroad	1567.151	164.400	104.671	8.595	1.056	4.267	2.749
Iowa Total		**2595.918**	**684.740**	**520.446**	**723.912**	**539.094**	**980.430**	**209.797**
Kansas	EGU	11.313	144.740	1.390	7.192	262.740	16.444	13.500
Kansas	Non-EGU Point	123.050	198.700	66.526	164.970	35.966	35.679	21.409
Kansas	Nonpoint	2364.700	211.840	360.600	303.550	104.800	1529.500	380.900
Kansas	Nonroad	488.860	116.210	53.378	0.096	2.200	10.690	10.311
Kansas	Onroad	1321.260	154.548	92.742	8.104	0.976	4.057	2.627
Kansas Total		**4309.183**	**826.038**	**574.637**	**483.911**	**406.682**	**1596.370**	**428.747**
Kentucky	EGU	30.952	432.630	3.490	1.029	944.070	63.873	57.377
Kentucky	Non-EGU Point	156.820	101.060	135.720	2.658	71.287	44.089	28.882
Kentucky	Nonpoint	695.270	201.010	329.760	146.410	99.799	352.780	124.140
Kentucky	Nonroad	617.070	75.858	94.633	0.071	1.332	7.358	7.024
Kentucky	Onroad	2166.904	270.515	148.025	13.464	1.682	7.063	4.623
Kentucky Total		**3667.016**	**1081.073**	**711.627**	**163.632**	**1118.169**	**475.163**	**222.046**
Louisiana	C3 CMV	24.591	287.740	10.129		180.600	24.191	22.256
Louisiana	EGU	23.130	136.640	2.346	4.454	269.830	20.363	15.703
Louisiana	Non-EGU Point	426.380	446.070	203.400	15.225	457.160	132.190	108.190
Louisiana	Nonpoint	985.530	510.160	435.480	164.970	26.481	345.270	141.420
Louisiana	Nonroad	791.030	70.465	145.640	0.079	1.260	7.338	6.960
Louisiana	Onroad	1635.288	221.701	146.405	12.446	1.495	6.199	4.008
Louisiana Total		**3885.949**	**1672.776**	**943.400**	**197.174**	**936.825**	**535.551**	**298.537**
Maine	C3 CMV	1.177	14.130	0.493		9.161	1.193	1.097
Maine	EGU	1.621	1.863	0.261	0.102	2.853	0.632	0.492
Maine	Non-EGU Point	58.245	50.269	13.369	1.755	49.439	15.161	10.494
Maine	Nonpoint	577.090	33.909	144.970	22.615	28.986	105.560	74.513

* PM emissions include application of PM transport factor to fugitive dust sources

2008 Base Year Emissions Inventory
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		2008 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Maine	Nonroad	337.840	20.082	79.718	0.033	0.360	3.058	2.866
Maine	Onroad	691.534	72.647	43.158	3.929	2.274	2.106	1.390
Maine Total		**1667.508**	**192.899**	**281.970**	**28.434**	**93.072**	**127.710**	**90.852**
Maryland	C3 CMV	4.804	57.653	2.034		36.212	4.850	4.462
Maryland	EGU	7.592	110.490	0.768	0.141	636.100	43.329	37.887
Maryland	Non-EGU Point	320.010	63.731	15.543	0.407	44.359	26.150	18.476
Maryland	Nonpoint	513.730	87.690	350.130	75.937	117.320	178.890	77.373
Maryland	Nonroad	862.350	67.870	106.030	0.077	1.210	6.992	6.635
Maryland	Onroad	1808.575	213.855	123.548	15.545	1.521	6.677	4.080
Maryland Total		**3517.061**	**601.289**	**598.053**	**92.107**	**836.722**	**266.888**	**148.913**
Massachusetts	C3 CMV	9.048	108.610	3.831		69.593	9.117	8.388
Massachusetts	EGU	9.325	27.366	0.373	0.515	127.990	8.165	7.060
Massachusetts	Non-EGU Point	100.200	59.910	22.959	1.033	53.650	9.039	6.381
Massachusetts	Nonpoint	432.470	115.080	439.370	20.932	55.920	238.350	93.014
Massachusetts	Nonroad	907.220	71.340	112.790	0.077	1.135	6.531	6.197
Massachusetts	Onroad	1771.205	191.068	108.208	15.522	5.023	6.364	3.811
Massachusetts Total		**3229.468**	**573.374**	**687.531**	**38.079**	**313.311**	**277.566**	**124.851**
Michigan	C3 CMV	2.468	31.197	1.048		18.347	2.472	2.274
Michigan	EGU	15.361	295.630	1.073	0.811	961.870	39.945	32.290
Michigan	Non-EGU Point	307.860	264.240	110.000	3.030	215.980	51.958	34.372
Michigan	Nonpoint	560.870	173.800	632.110	163.120	116.330	646.480	154.260
Michigan	Nonroad	2069.200	175.770	377.460	0.217	3.148	18.726	17.712
Michigan	Onroad	5243.014	532.904	351.836	27.340	3.449	14.068	9.151
Michigan Total		**8198.772**	**1473.541**	**1473.526**	**194.518**	**1319.124**	**773.648**	**250.059**
Minnesota	C3 CMV	0.071	0.882	0.030		0.561	0.074	0.068
Minnesota	EGU	26.930	165.000	1.480	0.212	203.880	19.474	8.592
Minnesota	Non-EGU Point	129.000	172.440	67.445	75.043	64.158	56.594	28.167
Minnesota	Nonpoint	511.490	275.110	296.900	380.780	44.520	1076.100	196.560
Minnesota	Nonroad	1092.100	168.580	243.500	0.172	3.032	17.525	16.722
Minnesota	Onroad	2801.096	286.137	179.756	14.793	1.817	7.334	4.724
Minnesota Total		**4560.687**	**1068.149**	**789.111**	**471.000**	**317.967**	**1177.101**	**254.833**
Mississippi	C3 CMV	0.304	3.582	0.123		2.533	0.317	0.292
Mississippi	EGU	26.342	114.880	2.032	0.634	178.950	8.665	7.414
Mississippi	Non-EGU Point	160.440	147.710	107.880	3.241	67.086	49.492	29.260
Mississippi	Nonpoint	1440.300	197.690	490.510	174.200	23.291	539.120	211.030
Mississippi	Nonroad	478.750	53.167	88.757	0.053	0.939	5.441	5.176
Mississippi	Onroad	1605.123	206.093	150.890	11.163	1.356	6.024	3.986
Mississippi Total		**3711.259**	**723.122**	**840.192**	**189.291**	**274.154**	**609.059**	**257.158**
Missouri	EGU	25.333	243.050	3.402	0.077	707.670	30.103	19.988
Missouri	Non-EGU Point	252.030	119.250	61.213	3.700	248.230	35.011	19.655
Missouri	Nonpoint	732.180	265.020	506.870	309.650	132.030	1096.100	209.950
Missouri	Nonroad	997.310	129.430	140.960	0.123	2.342	12.532	11.988
Missouri	Onroad	3066.575	346.137	213.186	18.828	2.353	9.518	6.165
Missouri Total		**5073.428**	**1102.887**	**925.631**	**332.378**	**1092.625**	**1183.265**	**267.747**
Montana	EGU	6.180	78.316	0.589	0.276	53.447	7.680	6.646
Montana	Non-EGU Point	83.313	15.189	19.949	0.583	20.933	17.516	7.591
Montana	Nonpoint	190.750	98.877	103.580	127.210	9.572	535.480	91.089
Montana	Nonroad	208.800	46.193	33.880	0.041	0.906	4.780	4.597
Montana	Onroad	565.616	60.951	34.596	2.943	0.385	1.675	1.123
Montana Total		**1054.660**	**299.526**	**192.594**	**131.053**	**85.243**	**567.130**	**111.046**
Nebraska	EGU	7.801	118.350	1.602	0.159	207.410	5.480	4.039
Nebraska	Non-EGU Point	39.594	34.775	18.381	4.074	17.746	10.155	5.267
Nebraska	Nonpoint	213.160	200.010	134.020	471.530	89.654	846.620	123.670
Nebraska	Nonroad	307.340	98.551	41.155	0.080	1.892	9.195	8.876
Nebraska	Onroad	921.781	119.671	62.583	5.236	0.713	3.123	2.115
Nebraska Total		**1489.676**	**571.357**	**257.741**	**481.079**	**317.414**	**874.573**	**143.968**
Nevada	EGU	8.377	43.899	0.383	1.190	24.988	4.382	3.943
Nevada	Non-EGU Point	92.975	55.537	10.531	0.872	6.931	19.476	11.524

* PM emissions include application of PM transport factor to fugitive dust sources

2008 Base Year Emissions Inventory
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		2008 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Nevada	Nonpoint	63.891	38.688	85.459	17.059	35.500	212.520	34.188
Nevada	Nonroad	425.260	45.825	47.680	0.050	0.940	4.693	4.481
Nevada	Onroad	805.808	72.573	63.663	5.357	0.537	2.012	1.173
Nevada Total		**1396.311**	**256.522**	**207.716**	**24.527**	**68.896**	**243.083**	**55.309**
New Hampshire	C3 CMV	0.007	0.085	0.003		0.052	0.007	0.007
New Hampshire	EGU	3.005	12.740	0.300	0.421	101.090	7.096	6.231
New Hampshire	Non-EGU Point	19.970	9.792	2.561	0.142	9.072	1.988	1.696
New Hampshire	Nonpoint	583.370	45.767	132.280	6.410	19.653	91.550	76.996
New Hampshire	Nonroad	278.700	19.659	53.132	0.025	0.319	2.288	2.155
New Hampshire	Onroad	496.822	55.192	31.126	3.587	1.437	1.700	1.077
New Hampshire Total		**1381.874**	**143.235**	**219.403**	**10.586**	**131.624**	**104.630**	**88.162**
New Jersey	C3 CMV	6.199	72.577	2.645		57.623	6.237	5.738
New Jersey	EGU	8.643	42.187	0.781	0.247	68.912	9.918	8.261
New Jersey	Non-EGU Point	77.489	63.463	30.638	1.268	21.397	9.382	7.388
New Jersey	Nonpoint	297.600	128.750	434.310	23.980	32.710	120.480	47.932
New Jersey	Nonroad	1321.200	99.919	164.690	0.112	1.614	9.456	8.967
New Jersey	Onroad	2413.452	246.737	172.058	21.577	1.969	7.971	4.635
New Jersey Total		**4124.583**	**653.633**	**805.122**	**47.184**	**184.225**	**163.443**	**82.920**
New Mexico	EGU	10.841	189.230	1.027	1.115	60.935	21.011	14.293
New Mexico	Non-EGU Point	99.064	121.710	32.875	0.077	22.152	5.589	4.328
New Mexico	Nonpoint	473.100	295.590	767.930	100.860	13.010	1266.700	169.590
New Mexico	Nonroad	246.370	23.207	31.166	0.025	0.440	2.359	2.249
New Mexico	Onroad	1270.795	142.940	94.847	7.379	0.943	3.999	2.647
New Mexico Total		**2100.170**	**772.677**	**927.844**	**109.456**	**97.479**	**1299.659**	**193.106**
New York	C3 CMV	3.594	43.315	1.546		26.346	3.566	3.280
New York	EGU	32.639	128.190	6.238	3.347	384.280	41.138	29.603
New York	Non-EGU Point	289.130	134.460	38.752	5.387	49.846	18.257	13.460
New York	Nonpoint	1170.900	362.480	1119.900	153.570	329.610	586.190	203.080
New York	Nonroad	2521.000	191.060	343.830	0.223	3.227	18.968	17.999
New York	Onroad	6294.795	492.411	475.992	41.227	3.972	16.474	9.775
New York Total		**10312.058**	**1351.916**	**1986.258**	**203.755**	**797.281**	**684.593**	**277.197**
North Carolina	C3 CMV	15.234	183.080	6.465		115.540	15.252	14.033
North Carolina	EGU	21.794	164.160	2.055	0.316	652.850	69.631	51.827
North Carolina	Non-EGU Point	227.750	128.100	156.610	4.988	181.990	45.835	34.041
North Carolina	Nonpoint	1747.400	124.540	727.930	458.910	58.122	446.810	223.150
North Carolina	Nonroad	1701.500	143.490	196.140	0.148	2.629	14.055	13.385
North Carolina	Onroad	3395.068	435.699	332.101	22.731	2.973	12.023	7.851
North Carolina Total		**7108.746**	**1179.069**	**1421.301**	**487.093**	**1014.104**	**603.605**	**344.287**
North Dakota	EGU	17.348	183.110	0.994	0.668	363.190	19.571	16.633
North Dakota	Non-EGU Point	30.175	21.023	4.101	0.420	25.955	2.069	1.741
North Dakota	Nonpoint	65.500	95.138	82.767	196.450	19.735	775.360	117.370
North Dakota	Nonroad	187.380	94.698	32.343	0.076	1.859	9.035	8.736
North Dakota	Onroad	416.575	42.830	25.999	2.119	0.271	1.168	0.777
North Dakota Total		**716.978**	**436.799**	**146.204**	**199.732**	**411.010**	**807.202**	**145.256**
Ohio	C3 CMV	0.572	7.202	0.243		4.299	0.577	0.531
Ohio	EGU	15.594	647.220	1.816	0.928	2026.800	171.834	153.765
Ohio	Non-EGU Point	692.760	210.900	94.285	15.656	375.590	50.278	35.658
Ohio	Nonpoint	911.380	321.880	899.690	292.740	69.932	719.130	188.730
Ohio	Nonroad	1933.200	210.890	221.440	0.208	3.841	18.252	17.409
Ohio	Onroad	4730.137	505.068	333.540	29.992	3.519	14.390	9.197
Ohio Total		**8283.643**	**1903.161**	**1551.013**	**339.524**	**2483.980**	**974.461**	**405.290**
Oklahoma	EGU	28.038	219.130	2.245	0.803	277.590	10.419	5.401
Oklahoma	Non-EGU Point	173.930	204.840	124.610	8.491	118.930	29.427	17.694
Oklahoma	Nonpoint	1233.200	323.980	578.390	299.890	23.819	1276.500	261.940
Oklahoma	Nonroad	642.370	75.629	84.887	0.074	1.385	7.355	7.034
Oklahoma	Onroad	1891.014	236.066	147.507	12.925	1.544	6.383	4.116
Oklahoma Total		**3968.552**	**1059.645**	**937.639**	**322.183**	**423.268**	**1330.084**	**296.185**
Oregon	C3 CMV	4.325	50.285	1.907		30.867	4.259	3.918

* PM emissions include application of PM transport factor to fugitive dust sources

2008 Base Year Emissions Inventory
State Level Totals - 36km Domain

		2008 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Oregon	EGU	1.522	26.405	0.135	0.117	31.167	2.893	1.517
Oregon	Non-EGU Point	174.240	65.657	46.027	2.117	27.198	34.287	24.669
Oregon	Nonpoint	1183.600	145.820	509.370	116.670	28.497	353.940	183.360
Oregon	Nonroad	643.060	63.867	91.253	0.066	1.153	6.523	6.207
Oregon	Onroad	1494.603	150.597	99.844	8.987	1.060	4.125	2.595
Oregon Total		**3501.350**	**502.631**	**748.536**	**127.957**	**119.942**	**406.027**	**222.266**
Pennsylvania	C3 CMV	0.754	9.090	0.301		8.383	0.783	0.720
Pennsylvania	EGU	51.342	512.520	1.884	0.658	2355.200	169.542	144.313
Pennsylvania	Non-EGU Point	341.890	233.850	95.948	5.073	175.110	61.936	39.000
Pennsylvania	Nonpoint	1767.700	305.990	928.990	233.510	186.010	514.540	233.820
Pennsylvania	Nonroad	1875.200	144.820	223.480	0.152	2.440	14.541	13.809
Pennsylvania	Onroad	4985.753	512.055	365.636	30.027	2.987	14.259	9.070
Pennsylvania Total		**9022.639**	**1718.324**	**1616.239**	**269.420**	**2730.130**	**775.600**	**440.732**
Rhode Island	C3 CMV	0.787	9.454	0.333		6.831	0.790	0.727
Rhode Island	EGU	2.022	1.266	0.163	0.055	0.050	0.044	0.039
Rhode Island	Non-EGU Point	12.765	6.815	4.303	0.042	7.605	1.173	0.769
Rhode Island	Nonpoint	25.897	8.821	54.647	1.321	8.611	11.037	4.203
Rhode Island	Nonroad	140.040	11.043	17.375	0.011	0.166	0.939	0.892
Rhode Island	Onroad	380.877	29.847	28.239	2.412	0.207	0.822	0.453
Rhode Island Total		**562.388**	**67.246**	**105.060**	**3.842**	**23.469**	**14.804**	**7.082**
South Carolina	C3 CMV	5.888	70.056	2.504		53.228	5.903	5.431
South Carolina	EGU	26.519	117.970	3.134	2.042	431.880	50.007	39.629
South Carolina	Non-EGU Point	155.350	87.166	48.841	4.273	89.331	20.233	13.013
South Carolina	Nonpoint	1014.800	112.960	451.650	81.929	83.059	342.140	139.550
South Carolina	Nonroad	858.170	70.316	108.340	0.074	1.290	6.882	6.546
South Carolina	Onroad	2171.973	247.077	187.830	13.695	1.712	6.926	4.487
South Carolina Total		**4232.700**	**705.545**	**802.299**	**102.013**	**660.500**	**432.090**	**208.655**
South Dakota	EGU	1.217	38.197	0.248	0.075	37.091	1.255	1.224
South Dakota	Non-EGU Point	33.369	19.119	6.461	0.625	8.993	11.602	8.087
South Dakota	Nonpoint	101.580	26.289	74.473	281.810	28.557	562.540	94.288
South Dakota	Nonroad	167.910	67.595	29.432	0.055	1.310	6.473	6.251
South Dakota	Onroad	430.082	48.482	27.135	2.375	0.309	1.341	0.897
South Dakota Total		**734.158**	**199.682**	**137.748**	**284.940**	**76.260**	**583.211**	**110.747**
Tennessee	EGU	17.699	236.360	2.157	0.029	574.790	39.699	34.017
Tennessee	Non-EGU Point	334.070	174.620	214.780	4.771	211.210	78.336	60.465
Tennessee	Nonpoint	908.280	171.620	470.200	98.942	93.566	375.650	147.070
Tennessee	Nonroad	983.800	97.308	139.160	0.096	1.697	9.415	8.962
Tennessee	Onroad	3347.671	456.849	280.671	19.110	2.618	11.089	7.456
Tennessee Total		**5591.520**	**1136.757**	**1106.968**	**122.947**	**883.881**	**514.189**	**257.970**
Texas	C3 CMV	10.430	114.250	4.133		82.870	11.057	10.173
Texas	EGU	580.830	438.300	9.163	1.709	1331.100	95.619	68.206
Texas	Non-EGU Point	884.250	807.050	383.560	9.257	447.150	130.190	101.650
Texas	Nonpoint	1775.400	1233.200	2000.600	995.730	316.590	3843.300	570.470
Texas	Nonroad	3336.800	359.970	385.050	0.364	6.793	33.920	32.436
Texas	Onroad	7818.630	1187.726	675.178	64.490	8.074	35.011	23.241
Texas Total		**14406.340**	**4140.496**	**3457.683**	**1071.551**	**2192.577**	**4149.097**	**806.176**
Utah	EGU	7.416	188.160	0.678	0.589	58.053	17.745	13.431
Utah	Non-EGU Point	157.070	58.114	17.372	1.169	22.499	22.082	10.162
Utah	Nonpoint	303.500	66.473	309.890	62.141	9.540	451.350	76.165
Utah	Nonroad	395.500	35.842	65.816	0.040	0.671	4.024	3.819
Utah	Onroad	1309.123	118.797	84.436	7.362	0.842	3.270	2.035
Utah Total		**2172.609**	**467.386**	**478.192**	**71.301**	**91.605**	**498.472**	**105.613**
Vermont	EGU	3.158	0.810	0.048	0.000	0.005	0.210	0.188
Vermont	Non-EGU Point	12.170	2.470	3.364	0.056	2.504	1.395	1.009
Vermont	Nonpoint	300.510	14.795	57.407	25.016	16.748	76.021	39.342
Vermont	Nonroad	135.100	9.968	27.564	0.013	0.170	1.265	1.193
Vermont	Onroad	300.164	24.877	19.434	1.887	0.163	0.811	0.497
Vermont Total		**751.102**	**52.920**	**107.817**	**26.972**	**19.590**	**79.701**	**42.228**

* PM emissions include application of PM transport factor to fugitive dust sources

2008 Base Year Emissions Inventory
State Level Totals - 36km Domain

		2008 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Virginia	C3 CMV	4.326	51.972	1.837		33.801	4.357	4.008
Virginia	EGU	17.175	133.890	1.374	0.352	353.740	30.696	29.067
Virginia	Non-EGU Point	252.680	174.810	108.590	5.361	186.620	40.158	31.564
Virginia	Nonpoint	1073.500	238.760	565.190	131.730	93.947	352.100	151.450
Virginia	Nonroad	1246.200	106.400	142.370	0.113	1.953	10.682	10.157
Virginia	Onroad	3510.137	367.452	247.732	23.328	2.734	10.133	6.221
Virginia Total		**6104.018**	**1073.284**	**1067.093**	**160.884**	**672.795**	**448.126**	**232.467**
Washington	C3 CMV	8.790	102.730	3.945		64.188	9.033	8.311
Washington	EGU	2.516	30.461	0.229	0.200	6.436	5.752	5.260
Washington	Non-EGU Point	210.770	77.996	39.525	2.278	58.634	17.817	13.141
Washington	Nonpoint	807.520	163.770	376.070	123.380	24.953	364.940	135.640
Washington	Nonroad	1053.400	103.570	143.000	0.110	1.887	10.362	9.868
Washington	Onroad	2575.370	293.151	173.967	15.001	1.926	7.949	5.215
Washington Total		**4658.366**	**771.678**	**736.736**	**140.969**	**158.024**	**415.853**	**177.434**
West Virginia	C3 CMV	0.007	0.078	0.003		0.048	0.007	0.006
West Virginia	EGU	20.418	273.540	2.278	0.089	839.180	77.621	71.609
West Virginia	Non-EGU Point	199.660	95.701	33.439	1.990	108.560	21.089	13.742
West Virginia	Nonpoint	594.660	110.070	174.890	29.443	41.749	147.670	81.676
West Virginia	Nonroad	273.830	19.953	45.762	0.023	0.336	2.480	2.343
West Virginia	Onroad	954.603	109.762	65.348	5.552	0.680	2.749	1.770
West Virginia Total		**2043.177**	**609.104**	**321.720**	**37.097**	**990.554**	**251.616**	**171.146**
Wisconsin	C3 CMV	0.176	2.226	0.075		1.333	0.179	0.164
Wisconsin	EGU	6.575	134.480	0.598	0.341	365.820	16.865	15.337
Wisconsin	Non-EGU Point	196.720	115.380	83.532	1.322	185.040	31.457	21.617
Wisconsin	Nonpoint	838.350	127.920	450.530	318.400	18.135	377.000	147.050
Wisconsin	Nonroad	1249.300	129.200	271.150	0.148	2.271	13.699	12.978
Wisconsin	Onroad	2499.096	263.375	143.762	15.955	1.873	7.614	4.864
Wisconsin Total		**4790.217**	**772.581**	**949.646**	**336.167**	**574.472**	**446.814**	**202.010**
Wyoming	EGU	12.734	205.440	1.527	0.911	224.450	26.496	21.882
Wyoming	Non-EGU Point	59.580	89.692	35.760	1.286	71.881	36.191	28.193
Wyoming	Nonpoint	130.140	181.740	632.800	52.017	21.753	705.050	86.476
Wyoming	Nonroad	120.620	13.218	24.694	0.015	0.251	1.561	1.483
Wyoming	Onroad	479.315	52.326	28.804	2.458	0.325	1.426	0.961
Wyoming Total		**802.389**	**542.416**	**723.585**	**56.686**	**318.660**	**770.724**	**138.994**

* PM emissions include application of PM transport factor to fugitive dust sources

ALPINE GEOPHYSICS

ENVIRON

Table E-2. State-Sector-Scenario Emission Inventory Summaries; 2014 Emissions

2014 Business as Usual Emissions Inventory
State Level Totals - 36km Domain

		2014 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Alabama	C3 CMV	1.519	7.149	0.261		4.773	0.633	0.582
Alabama	EGU	46.279	187.630	3.866	2.330	543.840	46.587	35.331
Alabama	Non-EGU Point	481.240	205.180	98.578	6.696	189.530	70.791	53.969
Alabama	Nonpoint	1101.400	135.870	504.520	191.310	144.140	435.340	162.050
Alabama	Nonroad	621.040	52.677	93.981	0.091	0.105	5.755	5.450
Alabama	Onroad	1774.438	157.173	131.784	16.552	1.610	6.053	3.295
Alabama Total		**4025.917**	**745.679**	**832.990**	**216.979**	**883.999**	**565.159**	**260.676**
Arizona	EGU	32.813	149.850	2.236	1.809	73.215	28.076	21.292
Arizona	Non-EGU Point	132.020	51.453	20.282	0.212	66.468	19.257	11.100
Arizona	Nonpoint	292.220	79.586	244.170	94.758	7.338	466.760	86.587
Arizona	Nonroad	767.910	68.178	85.156	0.122	0.117	7.743	7.356
Arizona	Onroad	1850.438	196.436	142.899	19.213	1.955	7.718	4.321
Arizona Total		**3075.401**	**545.503**	**494.743**	**116.113**	**149.092**	**529.554**	**130.656**
Arkansas	EGU	20.052	87.623	1.576	0.992	110.460	21.285	16.145
Arkansas	Non-EGU Point	204.820	103.840	90.584	5.515	35.871	41.393	29.664
Arkansas	Nonpoint	893.690	141.740	311.460	361.050	75.705	425.520	147.010
Arkansas	Nonroad	476.430	50.009	67.434	0.078	0.083	5.290	5.041
Arkansas	Onroad	1101.726	90.723	75.666	8.968	0.951	3.312	1.808
Arkansas Total		**2696.718**	**473.935**	**546.720**	**376.603**	**223.070**	**496.800**	**199.668**
California	C3 CMV	39.862	451.960	16.162		285.780	38.068	35.016
California	EGU	27.068	14.883	0.820	2.098	9.431	1.783	1.358
California	Non-EGU Point	552.480	290.820	151.670	32.181	78.508	106.040	60.109
California	Nonpoint	1673.400	690.260	1600.900	490.540	232.640	1070.400	340.450
California	Nonroad	2857.500	422.640	314.480	0.544	1.417	39.222	33.007
California	Onroad	9879.178	780.466	669.644	96.186	8.950	34.133	17.980
California Total		**15029.488**	**2651.029**	**2753.676**	**621.549**	**616.726**	**1289.646**	**487.920**
Colorado	EGU	21.817	141.320	1.788	1.038	81.897	24.781	18.796
Colorado	Non-EGU Point	115.260	70.804	58.938	0.350	11.142	39.285	20.152
Colorado	Nonpoint	249.910	156.670	331.240	180.290	17.890	359.370	71.213
Colorado	Nonroad	650.070	63.138	71.904	0.107	0.111	7.047	6.702
Colorado	Onroad	2215.397	147.359	116.540	15.094	1.447	5.316	2.853
Colorado Total		**3252.454**	**579.291**	**580.409**	**196.879**	**112.487**	**435.799**	**119.715**
Connecticut	C3 CMV	0.417	4.899	0.171		3.408	0.428	0.393
Connecticut	EGU	4.290	9.311	0.281	0.286	10.201	2.751	2.107
Connecticut	Non-EGU Point	25.890	17.825	7.417	0.683	5.162	1.053	0.777
Connecticut	Nonpoint	362.270	44.181	253.910	17.618	49.466	75.251	48.532
Connecticut	Nonroad	434.930	30.571	45.984	0.054	0.066	3.201	3.028
Connecticut	Onroad	892.740	52.384	36.591	9.725	0.924	2.897	1.450
Connecticut Total		**1720.537**	**159.170**	**344.353**	**28.367**	**69.227**	**85.579**	**56.287**
Delaware	C3 CMV	1.830	20.751	0.773		40.426	1.805	1.661
Delaware	EGU	3.390	8.887	0.265	0.194	15.039	3.232	2.463
Delaware	Non-EGU Point	32.313	15.574	11.107	0.507	30.448	5.689	4.735
Delaware	Nonpoint	68.287	22.071	36.506	42.770	16.222	26.845	10.843
Delaware	Nonroad	112.570	9.736	12.414	0.017	0.018	0.986	0.936
Delaware	Onroad	241.795	18.424	13.206	2.749	0.279	0.898	0.466
Delaware Total		**460.184**	**95.443**	**74.271**	**46.237**	**102.431**	**39.456**	**21.104**
District of Columbia	C3 CMV	0.000	0.005	0.000		0.003	0.000	0.000
District of Columbia	EGU	0.014	0.026	0.001	0.020	0.004	0.005	0.005
District of Columbia	Non-EGU Point	0.970	1.374	0.211	0.012	1.881	0.418	0.366
District of Columbia	Nonpoint	4.585	5.487	15.901	0.357	3.829	4.765	1.060
District of Columbia	Nonroad	30.430	5.319	2.714	0.008	0.007	0.480	0.462
District of Columbia	Onroad	99.532	7.654	5.872	1.146	0.115	0.354	0.177
District of Columbia Total		**135.530**	**19.864**	**24.699**	**1.543**	**5.838**	**6.022**	**2.070**
Florida	C3 CMV	37.596	442.470	15.769		296.540	38.793	35.690
Florida	EGU	101.770	225.320	5.864	7.632	509.210	51.406	39.473
Florida	Non-EGU Point	433.890	184.530	105.200	6.988	160.210	87.290	70.755
Florida	Nonpoint	888.740	181.970	1394.500	110.360	193.440	543.830	173.290
Florida	Nonroad	2746.100	232.930	351.320	0.412	0.423	23.954	22.737

* PM emissions include application of PM transport factor to fugitive dust sources

2014 Business as Usual Emissions Inventory
State Level Totals - 36km Domain

		2014 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Florida	Onroad	6699.726	496.904	622.959	60.866	5.750	20.313	10.682
Florida Total		**10907.822**	**1764.124**	**2495.612**	**186.258**	**1165.573**	**765.586**	**352.627**
Georgia	C3 CMV	2.415	27.906	1.036		22.342	2.413	2.220
Georgia	EGU	49.798	111.230	3.812	2.547	310.240	51.170	38.814
Georgia	Non-EGU Point	321.040	163.630	92.644	15.276	157.050	47.961	36.030
Georgia	Nonpoint	1266.400	195.850	770.780	266.120	155.830	717.320	249.860
Georgia	Nonroad	1231.500	99.799	130.060	0.177	0.188	11.234	10.669
Georgia	Onroad	4027.945	371.589	329.710	34.942	3.564	12.946	7.013
Georgia Total		**6899.098**	**970.004**	**1328.042**	**319.062**	**649.215**	**843.043**	**344.606**
Idaho	EGU	0.332	0.118	0.008	0.026	0.003	0.002	0.001
Idaho	Non-EGU Point	94.639	29.168	5.829	3.388	47.079	8.988	5.934
Idaho	Nonpoint	380.260	101.280	180.810	176.450	6.630	491.900	108.930
Idaho	Nonroad	243.280	30.326	46.594	0.049	0.051	3.411	3.241
Idaho	Onroad	717.589	53.071	38.654	4.713	0.477	1.706	0.924
Idaho Total		**1436.100**	**213.964**	**271.895**	**184.626**	**54.239**	**506.006**	**119.030**
Illinois	C3 CMV	0.026	0.325	0.011		0.203	0.027	0.025
Illinois	EGU	53.989	142.430	4.707	2.336	442.910	65.311	49.605
Illinois	Non-EGU Point	348.830	274.760	176.890	3.309	374.640	69.341	41.850
Illinois	Nonpoint	413.780	349.750	737.720	314.920	16.579	1280.200	222.200
Illinois	Nonroad	1482.800	196.100	160.690	0.306	0.316	18.178	17.378
Illinois	Onroad	3833.973	319.644	220.877	31.636	3.238	11.903	6.538
Illinois Total		**6133.397**	**1283.009**	**1300.895**	**352.507**	**837.885**	**1444.960**	**337.595**
Indiana	C3 CMV	0.012	0.143	0.005		0.096	0.012	0.011
Indiana	EGU	68.470	311.290	5.853	3.103	944.680	81.337	61.717
Indiana	Non-EGU Point	1007.800	221.080	136.510	3.350	338.810	73.265	43.691
Indiana	Nonpoint	499.920	191.830	436.860	267.530	163.170	1051.600	232.040
Indiana	Nonroad	806.540	107.740	94.278	0.166	0.184	9.698	9.265
Indiana	Onroad	2769.041	218.904	163.973	21.895	2.152	8.229	4.522
Indiana Total		**5151.783**	**1050.987**	**837.479**	**296.043**	**1449.092**	**1224.142**	**351.247**
Iowa	EGU	20.564	110.410	1.803	1.531	232.750	25.694	19.502
Iowa	Non-EGU Point	85.499	107.890	78.779	2.942	166.720	27.565	15.476
Iowa	Nonpoint	265.940	105.680	223.530	728.850	54.147	901.890	148.270
Iowa	Nonroad	533.180	118.780	64.897	0.158	0.150	10.024	9.645
Iowa	Onroad	1640.877	133.263	111.375	9.202	1.007	3.674	2.060
Iowa Total		**2546.060**	**576.023**	**480.384**	**742.683**	**454.773**	**968.847**	**194.953**
Kansas	EGU	18.327	97.496	1.626	0.814	86.157	23.003	17.457
Kansas	Non-EGU Point	120.550	194.240	64.921	167.650	35.809	35.161	21.023
Kansas	Nonpoint	2360.700	196.340	353.140	304.530	100.040	1528.400	379.850
Kansas	Nonroad	377.390	88.526	38.786	0.113	0.106	7.721	7.436
Kansas	Onroad	1490.000	123.148	113.603	8.372	0.871	3.273	1.826
Kansas Total		**4366.967**	**699.750**	**572.076**	**481.478**	**222.983**	**1597.557**	**427.591**
Kentucky	EGU	50.779	237.720	4.665	3.049	666.000	66.422	50.376
Kentucky	Non-EGU Point	156.270	102.410	134.990	2.695	70.290	44.277	29.095
Kentucky	Nonpoint	681.080	184.450	317.910	151.590	94.384	350.360	121.760
Kentucky	Nonroad	482.280	56.560	69.086	0.087	0.095	5.702	5.435
Kentucky	Onroad	1813.397	155.841	103.526	14.691	1.428	5.506	3.004
Kentucky Total		**3183.806**	**736.981**	**630.177**	**172.113**	**832.197**	**472.267**	**209.669**
Louisiana	C3 CMV	28.731	327.920	11.834		211.010	28.265	26.004
Louisiana	EGU	21.588	95.260	1.544	1.173	169.320	18.570	14.107
Louisiana	Non-EGU Point	429.090	448.900	203.310	15.433	420.370	131.920	108.230
Louisiana	Nonpoint	979.950	470.500	422.570	169.100	13.090	343.390	139.680
Louisiana	Nonroad	610.380	55.712	105.760	0.094	0.104	5.585	5.293
Louisiana	Onroad	1370.192	122.353	108.195	12.780	1.297	4.676	2.548
Louisiana Total		**3439.931**	**1520.645**	**853.212**	**198.579**	**815.191**	**532.406**	**295.862**
Maine	C3 CMV	1.474	17.296	0.617		11.468	1.493	1.374
Maine	EGU	3.630	2.586	0.128	0.275	8.052	0.570	0.435
Maine	Non-EGU Point	58.396	50.633	13.558	1.761	50.795	15.161	10.486
Maine	Nonpoint	560.610	33.462	139.890	23.403	28.818	103.450	72.412

* PM emissions include application of PM transport factor to fugitive dust sources

2014 Business as Usual Emissions Inventory
State Level Totals - 36km Domain

		2014 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Maine	Nonroad	264.280	16.373	62.627	0.039	0.043	2.599	2.431
Maine	Onroad	601.151	42.644	30.606	4.325	2.614	1.636	0.900
Maine Total		**1489.541**	**162.994**	**247.426**	**29.804**	**101.791**	**124.909**	**88.038**
Maryland	C3 CMV	6.020	70.648	2.549		45.371	6.077	5.591
Maryland	EGU	15.785	57.787	1.460	0.782	160.530	19.063	14.522
Maryland	Non-EGU Point	319.370	71.947	15.487	0.410	96.289	25.876	18.096
Maryland	Nonpoint	505.090	83.761	342.660	80.707	112.370	177.580	76.074
Maryland	Nonroad	704.760	51.584	75.359	0.093	0.098	5.782	5.472
Maryland	Onroad	1539.041	108.929	81.425	17.575	1.766	5.975	3.119
Maryland Total		**3090.066**	**444.656**	**518.940**	**99.567**	**416.424**	**240.353**	**122.874**
Massachusetts	C3 CMV	11.350	133.320	4.805		87.425	11.439	10.523
Massachusetts	EGU	17.624	20.926	0.857	1.242	43.145	6.789	5.182
Massachusetts	Non-EGU Point	98.400	54.852	22.710	0.921	53.759	9.035	6.312
Massachusetts	Nonpoint	416.580	110.640	430.330	20.901	54.006	236.090	90.792
Massachusetts	Nonroad	726.750	51.766	77.753	0.093	0.110	5.375	5.089
Massachusetts	Onroad	1485.616	96.197	61.258	16.487	6.057	5.397	2.754
Massachusetts Total		**2756.320**	**467.701**	**597.712**	**39.643**	**244.503**	**274.125**	**120.651**
Michigan	C3 CMV	2.716	34.385	1.153		20.191	2.720	2.502
Michigan	EGU	46.430	190.200	3.379	2.451	512.310	43.809	33.236
Michigan	Non-EGU Point	308.320	263.490	103.240	3.051	214.530	51.380	34.257
Michigan	Nonpoint	564.770	168.500	600.110	165.190	114.440	644.490	151.950
Michigan	Nonroad	1558.800	128.570	292.240	0.256	0.274	15.058	14.205
Michigan	Onroad	4088.493	323.945	234.299	28.137	2.938	11.148	6.216
Michigan Total		**6569.529**	**1109.090**	**1234.421**	**199.085**	**864.683**	**768.605**	**242.367**
Minnesota	C3 CMV	0.078	0.972	0.033		0.617	0.081	0.075
Minnesota	EGU	14.449	84.654	1.263	0.668	87.290	18.002	13.657
Minnesota	Non-EGU Point	130.580	193.080	67.551	76.510	87.805	53.920	27.588
Minnesota	Nonpoint	495.640	260.190	280.270	385.620	39.849	1073.600	194.120
Minnesota	Nonroad	953.480	129.590	194.640	0.203	0.206	13.464	12.815
Minnesota	Onroad	2393.479	182.115	119.995	16.128	1.711	6.027	3.303
Minnesota Total		**3987.707**	**850.601**	**663.752**	**479.129**	**217.478**	**1165.094**	**251.558**
Mississippi	C3 CMV	0.353	4.065	0.142		2.947	0.369	0.340
Mississippi	EGU	16.400	76.830	1.018	1.044	137.360	11.024	8.388
Mississippi	Non-EGU Point	159.560	145.410	108.030	3.245	81.038	49.637	29.613
Mississippi	Nonpoint	1431.100	181.730	479.000	186.800	19.088	537.380	209.310
Mississippi	Nonroad	367.220	40.109	65.604	0.064	0.071	4.140	3.933
Mississippi	Onroad	1180.082	111.126	88.285	10.653	1.015	4.495	2.554
Mississippi Total		**3154.715**	**559.270**	**742.079**	**201.806**	**241.520**	**607.046**	**254.137**
Missouri	EGU	39.364	147.090	3.464	1.750	539.370	49.399	37.468
Missouri	Non-EGU Point	252.450	114.960	58.208	3.685	247.740	34.030	18.973
Missouri	Nonpoint	709.650	239.840	488.750	312.900	124.250	1092.300	206.180
Missouri	Nonroad	792.400	98.925	102.390	0.147	0.154	9.531	9.100
Missouri	Onroad	2747.123	230.255	166.699	20.642	2.207	7.752	4.258
Missouri Total		**4540.987**	**831.070**	**819.511**	**339.124**	**913.720**	**1193.012**	**275.980**
Montana	EGU	8.980	63.889	0.818	0.382	55.419	11.846	8.985
Montana	Non-EGU Point	82.840	15.234	20.419	0.583	20.879	17.398	7.533
Montana	Nonpoint	185.940	91.188	104.300	127.990	6.169	534.460	90.079
Montana	Nonroad	187.010	36.239	26.497	0.048	0.044	3.457	3.319
Montana	Onroad	459.562	33.841	23.332	3.071	0.303	1.187	0.659
Montana Total		**924.331**	**240.391**	**175.366**	**132.075**	**82.814**	**568.348**	**110.574**
Nebraska	EGU	11.706	83.024	1.064	0.500	174.940	15.399	11.680
Nebraska	Non-EGU Point	39.073	34.212	18.319	4.075	17.723	10.087	5.221
Nebraska	Nonpoint	211.740	171.620	128.790	476.490	81.752	845.390	122.480
Nebraska	Nonroad	259.980	75.840	30.618	0.094	0.084	6.559	6.324
Nebraska	Onroad	944.110	88.644	65.679	5.418	0.606	2.414	1.400
Nebraska Total		**1466.609**	**453.340**	**244.470**	**486.577**	**275.105**	**879.849**	**147.105**
Nevada	EGU	9.522	33.574	0.521	0.597	23.328	5.472	4.150
Nevada	Non-EGU Point	92.775	45.966	10.290	0.548	6.970	18.876	10.955

* PM emissions include application of PM transport factor to fugitive dust sources

2014 Business as Usual Emissions Inventory
State Level Totals - 36km Domain

		2014 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Nevada	Nonpoint	63.170	34.834	83.166	17.174	34.359	212.290	33.961
Nevada	Nonroad	338.460	34.512	35.314	0.060	0.058	3.850	3.664
Nevada	Onroad	711.863	43.334	45.120	5.956	0.520	1.671	0.811
Nevada Total		**1215.790**	**192.220**	**174.410**	**24.335**	**65.236**	**242.158**	**53.540**
New Hampshire	C3 CMV	0.009	0.104	0.004		0.066	0.009	0.008
New Hampshire	EGU	5.845	13.756	0.323	0.389	19.157	2.809	2.133
New Hampshire	Non-EGU Point	19.780	9.728	2.544	0.142	8.976	1.972	1.684
New Hampshire	Nonpoint	572.970	45.273	128.510	6.390	19.531	90.238	75.685
New Hampshire	Nonroad	219.550	15.032	39.773	0.031	0.036	1.901	1.786
New Hampshire	Onroad	402.849	31.126	18.058	3.951	1.967	1.465	0.791
New Hampshire Total		**1221.004**	**115.019**	**189.212**	**10.903**	**49.733**	**98.394**	**82.088**
New Jersey	C3 CMV	7.761	88.973	3.312		72.123	7.806	7.182
New Jersey	EGU	15.091	31.457	0.773	0.965	50.632	7.407	5.629
New Jersey	Non-EGU Point	76.773	61.938	30.612	1.277	23.695	9.028	7.123
New Jersey	Nonpoint	286.790	122.270	424.460	24.278	30.006	118.810	46.295
New Jersey	Nonroad	1099.300	74.481	113.040	0.135	0.154	7.801	7.382
New Jersey	Onroad	1958.959	130.570	100.940	23.107	2.205	7.267	3.739
New Jersey Total		**3444.674**	**509.689**	**673.136**	**49.762**	**178.815**	**158.120**	**77.349**
New Mexico	EGU	16.080	125.820	1.318	0.810	47.299	17.485	13.272
New Mexico	Non-EGU Point	98.559	121.350	32.715	0.080	21.614	5.338	4.157
New Mexico	Nonpoint	482.470	292.810	810.220	101.190	8.484	1266.000	168.860
New Mexico	Nonroad	195.570	17.635	23.466	0.030	0.030	1.899	1.805
New Mexico	Onroad	993.726	77.504	61.864	7.532	0.743	2.816	1.545
New Mexico Total		**1786.405**	**635.119**	**929.583**	**109.642**	**78.170**	**1293.538**	**189.639**
New York	C3 CMV	3.846	46.381	1.658		28.112	3.808	3.503
New York	EGU	38.303	89.860	2.021	2.799	144.340	12.926	9.985
New York	Non-EGU Point	295.400	178.520	39.331	5.518	219.660	22.080	15.777
New York	Nonpoint	1193.600	354.540	1100.400	155.190	322.540	588.820	205.500
New York	Nonroad	2124.000	142.940	246.760	0.267	0.302	15.418	14.601
New York	Onroad	5144.110	306.603	293.167	44.279	5.056	18.662	10.172
New York Total		**8799.258**	**1118.844**	**1683.337**	**208.053**	**720.009**	**661.714**	**259.538**
North Carolina	C3 CMV	19.073	224.180	8.094		144.660	19.097	17.569
North Carolina	EGU	39.187	152.880	3.346	1.610	287.100	48.177	36.617
North Carolina	Non-EGU Point	228.690	134.430	156.260	5.074	198.140	47.900	35.712
North Carolina	Nonpoint	1727.200	117.540	698.930	482.020	56.224	443.930	220.300
North Carolina	Nonroad	1463.700	101.280	139.030	0.180	0.204	11.297	10.734
North Carolina	Onroad	2687.233	252.214	235.192	25.076	2.700	9.596	5.256
North Carolina Total		**6165.083**	**982.524**	**1240.852**	**513.960**	**689.027**	**579.997**	**326.188**
North Dakota	EGU	13.981	150.880	1.273	0.594	103.340	18.444	13.989
North Dakota	Non-EGU Point	29.822	21.047	4.089	0.420	25.958	2.063	1.737
North Dakota	Nonpoint	62.670	98.866	88.302	197.050	16.444	774.620	116.650
North Dakota	Nonroad	157.920	74.561	24.533	0.088	0.073	6.280	6.067
North Dakota	Onroad	311.644	23.536	16.301	2.043	0.206	0.820	0.461
North Dakota Total		**576.037**	**368.890**	**134.498**	**200.195**	**146.021**	**802.227**	**138.904**
Ohio	C3 CMV	0.630	7.939	0.267		4.731	0.635	0.584
Ohio	EGU	66.089	300.370	5.804	2.928	1079.500	82.863	62.851
Ohio	Non-EGU Point	692.770	205.250	93.352	16.009	378.980	51.861	38.075
Ohio	Nonpoint	901.140	296.430	880.360	300.170	61.835	716.830	186.540
Ohio	Nonroad	1475.200	147.050	158.650	0.248	0.280	14.316	13.618
Ohio	Onroad	3974.795	316.822	232.660	31.649	3.103	11.832	6.490
Ohio Total		**7110.623**	**1273.860**	**1371.093**	**351.004**	**1528.430**	**878.336**	**308.158**
Oklahoma	EGU	30.879	196.210	2.024	1.771	269.810	23.023	17.468
Oklahoma	Non-EGU Point	170.050	201.030	124.260	8.576	101.320	28.348	16.820
Oklahoma	Nonpoint	1228.000	314.050	566.310	306.730	20.843	1275.500	260.900
Oklahoma	Nonroad	486.550	58.151	60.928	0.088	0.090	5.590	5.334
Oklahoma	Onroad	2419.973	202.868	205.200	14.228	1.471	5.534	3.082
Oklahoma Total		**4335.452**	**972.309**	**958.722**	**331.393**	**393.534**	**1337.995**	**303.604**
Oregon	C3 CMV	5.519	62.855	2.434		39.393	5.435	5.000

* PM emissions include application of PM transport factor to fugitive dust sources

2014 Business as Usual Emissions Inventory
State Level Totals - 36km Domain

		2014 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Oregon	EGU	7.648	15.098	0.322	0.529	5.580	2.562	1.941
Oregon	Non-EGU Point	173.680	65.930	46.142	2.117	27.224	34.285	24.672
Oregon	Nonpoint	1162.000	136.270	490.840	117.860	26.024	351.510	180.940
Oregon	Nonroad	508.150	47.693	67.480	0.081	0.091	5.195	4.930
Oregon	Onroad	1393.370	101.688	79.855	10.673	1.063	3.705	1.976
Oregon Total		**3250.367**	**429.534**	**687.073**	**131.260**	**99.375**	**402.691**	**219.459**
Pennsylvania	C3 CMV	0.931	11.086	0.369		10.432	0.969	0.891
Pennsylvania	EGU	69.733	381.180	5.784	3.355	810.970	78.552	59.659
Pennsylvania	Non-EGU Point	345.990	243.710	96.231	4.936	218.100	62.871	39.119
Pennsylvania	Nonpoint	1748.200	290.120	897.760	240.080	180.710	511.500	230.820
Pennsylvania	Nonroad	1516.100	102.840	166.200	0.187	0.220	12.031	11.393
Pennsylvania	Onroad	3866.027	297.753	221.458	31.085	3.257	11.275	6.112
Pennsylvania Total		**7546.981**	**1326.689**	**1387.802**	**279.643**	**1223.688**	**677.197**	**347.994**
Rhode Island	C3 CMV	0.985	11.571	0.416		8.552	0.989	0.910
Rhode Island	EGU	4.656	0.906	0.119	0.364	0.034	0.017	0.011
Rhode Island	Non-EGU Point	12.620	6.716	4.237	0.042	7.596	1.128	0.729
Rhode Island	Nonpoint	25.275	8.668	53.991	1.326	8.576	10.951	4.119
Rhode Island	Nonroad	110.960	8.011	11.255	0.014	0.017	0.756	0.717
Rhode Island	Onroad	311.315	18.037	17.295	2.547	0.229	0.724	0.346
Rhode Island Total		**465.811**	**53.908**	**87.313**	**4.294**	**25.004**	**14.566**	**6.832**
South Carolina	C3 CMV	7.369	85.736	3.134		66.577	7.379	6.789
South Carolina	EGU	25.765	96.523	2.180	1.177	301.420	30.567	23.193
South Carolina	Non-EGU Point	152.350	86.675	48.921	4.292	110.890	21.407	14.023
South Carolina	Nonpoint	1015.500	107.450	437.870	86.036	81.246	340.540	137.940
South Carolina	Nonroad	735.140	49.561	75.369	0.090	0.103	5.486	5.208
South Carolina	Onroad	1711.397	144.279	126.693	14.345	1.464	5.336	2.918
South Carolina Total		**3647.522**	**570.224**	**694.167**	**105.940**	**561.701**	**410.715**	**190.071**
South Dakota	EGU	1.154	23.275	0.103	0.053	2.591	1.479	1.122
South Dakota	Non-EGU Point	32.431	15.185	6.439	0.630	8.344	9.058	6.292
South Dakota	Nonpoint	97.148	24.261	71.945	283.840	27.989	561.900	93.654
South Dakota	Nonroad	142.410	52.933	22.452	0.064	0.055	4.555	4.393
South Dakota	Onroad	345.260	28.849	18.207	2.462	0.249	1.019	0.578
South Dakota Total		**618.403**	**144.503**	**119.146**	**287.049**	**39.228**	**578.011**	**106.039**
Tennessee	EGU	24.893	85.181	2.261	1.107	279.270	32.630	24.758
Tennessee	Non-EGU Point	331.520	174.810	213.190	4.771	213.600	78.580	60.981
Tennessee	Nonpoint	895.080	160.240	452.750	101.960	90.124	373.480	144.950
Tennessee	Nonroad	738.190	71.681	99.879	0.117	0.134	7.446	7.077
Tennessee	Onroad	2809.863	287.260	199.759	21.633	2.277	8.932	5.053
Tennessee Total		**4799.546**	**779.172**	**967.839**	**129.588**	**585.405**	**501.069**	**242.819**
Texas	C3 CMV	12.186	130.290	4.828		96.818	12.918	11.885
Texas	EGU	191.720	387.510	10.555	11.993	1139.600	107.790	81.817
Texas	Non-EGU Point	883.260	791.450	383.790	9.648	428.900	125.920	98.927
Texas	Nonpoint	1758.600	1179.700	1961.900	1008.900	303.100	3840.600	566.850
Texas	Nonroad	2650.000	265.930	274.370	0.433	0.437	26.735	25.498
Texas	Onroad	5807.397	504.110	415.874	68.411	6.912	24.231	12.670
Texas Total		**11303.163**	**3258.990**	**3051.317**	**1099.385**	**1975.767**	**4138.194**	**797.647**
Utah	EGU	17.934	162.710	1.545	0.813	52.661	21.819	16.550
Utah	Non-EGU Point	156.420	66.962	17.288	1.189	32.283	22.176	10.222
Utah	Nonpoint	301.960	60.890	340.300	63.346	7.894	451.050	75.893
Utah	Nonroad	329.880	26.519	50.998	0.049	0.055	3.251	3.079
Utah	Onroad	1148.384	73.658	60.211	8.481	0.825	2.854	1.505
Utah Total		**1954.578**	**390.739**	**470.342**	**73.879**	**93.718**	**501.150**	**107.249**
Vermont	EGU	0.003	0.003	0.001	0.001	0.000	0.001	0.000
Vermont	Non-EGU Point	12.021	2.490	3.357	0.056	2.506	1.393	1.008
Vermont	Nonpoint	295.740	14.743	55.561	25.086	16.741	75.354	38.721
Vermont	Nonroad	103.430	7.609	21.767	0.016	0.018	1.059	0.996
Vermont	Onroad	369.863	23.218	19.957	2.938	0.290	1.385	0.800
Vermont Total		**781.057**	**48.063**	**100.643**	**28.096**	**19.555**	**79.191**	**41.525**

* PM emissions include application of PM transport factor to fugitive dust sources

2014 Business as Usual Emissions Inventory
State Level Totals - 36km Domain

		2014 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Virginia	C3 CMV	5.423	63.716	2.303		42.364	5.461	5.024
Virginia	EGU	20.756	114.570	1.685	1.145	257.690	15.705	11.980
Virginia	Non-EGU Point	254.130	175.700	108.160	5.431	190.470	39.709	31.218
Virginia	Nonpoint	1057.800	229.830	547.790	136.650	88.520	349.100	148.480
Virginia	Nonroad	1044.500	77.360	101.290	0.139	0.146	8.767	8.319
Virginia	Onroad	2906.301	212.666	171.836	24.916	2.498	8.797	4.605
Virginia Total		**5288.910**	**873.842**	**933.064**	**168.280**	**581.688**	**427.539**	**209.627**
Washington	C3 CMV	10.353	118.040	4.647		75.619	10.642	9.791
Washington	EGU	7.954	27.245	0.474	0.474	5.962	5.472	4.148
Washington	Non-EGU Point	209.580	75.730	39.600	2.207	58.607	17.632	13.049
Washington	Nonpoint	789.340	151.390	364.330	124.750	20.555	362.220	133.110
Washington	Nonroad	813.330	78.520	103.900	0.131	0.149	8.224	7.813
Washington	Onroad	2439.479	188.732	140.230	18.135	1.842	6.666	3.629
Washington Total		**4270.037**	**639.657**	**653.181**	**145.698**	**162.733**	**410.855**	**171.540**
West Virginia	C3 CMV	0.008	0.097	0.003		0.061	0.008	0.008
West Virginia	EGU	42.589	171.850	3.914	1.793	448.670	55.623	42.200
West Virginia	Non-EGU Point	199.830	99.616	33.465	2.043	123.250	21.216	13.867
West Virginia	Nonpoint	588.640	102.600	167.910	30.841	39.772	146.600	80.646
West Virginia	Nonroad	218.650	15.090	35.492	0.028	0.031	2.029	1.913
West Virginia	Onroad	684.438	58.912	40.147	5.230	0.534	1.957	1.072
West Virginia Total		**1734.156**	**448.165**	**280.931**	**39.935**	**612.319**	**227.433**	**139.706**
Wisconsin	C3 CMV	0.194	2.453	0.082		1.467	0.197	0.181
Wisconsin	EGU	27.034	95.578	2.289	1.525	218.480	31.464	23.875
Wisconsin	Non-EGU Point	195.670	118.780	83.165	1.340	188.230	31.607	21.805
Wisconsin	Nonpoint	829.300	119.780	435.640	320.380	15.564	375.910	145.990
Wisconsin	Nonroad	980.040	96.799	204.440	0.177	0.196	10.693	10.106
Wisconsin	Onroad	2221.260	167.301	98.781	18.067	1.904	6.797	3.732
Wisconsin Total		**4253.498**	**600.692**	**824.397**	**341.489**	**425.842**	**456.668**	**205.689**
Wyoming	EGU	22.429	129.300	2.042	0.953	79.262	29.580	22.436
Wyoming	Non-EGU Point	59.312	86.445	35.733	1.297	67.345	35.998	28.055
Wyoming	Nonpoint	127.380	167.130	756.310	52.550	17.776	704.410	85.848
Wyoming	Nonroad	95.846	10.528	19.591	0.018	0.019	1.226	1.162
Wyoming	Onroad	385.973	28.205	19.377	2.538	0.250	0.979	0.543
Wyoming Total		**690.940**	**421.608**	**833.053**	**57.357**	**164.652**	**772.193**	**138.044**

* PM emissions include application of PM transport factor to fugitive dust sources

ALPINE GEOPHYSICS

ENVIRON

Table E-3. State-Sector-Scenario Emission Inventory Summaries; 2018 Emissions

2018 Business as Usual Emissions Inventory
State Level Totals - 36km Domain

		2018 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Alabama	C3 CMV	1.763	8.144	0.301		5.534	0.733	0.674
Alabama	EGU	48.163	190.590	4.065	2.381	354.910	50.217	38.084
Alabama	Non-EGU Point	483.420	204.840	98.615	6.706	189.560	70.837	54.004
Alabama	Nonpoint	1095.100	127.880	501.090	201.560	144.130	434.100	160.780
Alabama	Nonroad	642.800	43.074	78.141	0.095	0.298	4.529	4.274
Alabama	Onroad	1663.288	112.888	111.890	17.175	1.691	5.548	2.728
Alabama Total		**3934.534**	**687.416**	**794.103**	**227.917**	**696.123**	**565.964**	**260.544**
Arizona	EGU	35.366	150.460	2.303	2.008	73.224	28.085	21.298
Arizona	Non-EGU Point	137.260	53.006	20.687	0.205	66.639	19.385	11.204
Arizona	Nonpoint	290.420	74.282	242.400	95.044	7.680	466.200	86.027
Arizona	Nonroad	810.490	53.470	75.318	0.128	0.402	6.164	5.831
Arizona	Onroad	1857.781	151.529	130.058	21.218	2.185	7.450	3.749
Arizona Total		**3131.317**	**482.747**	**470.766**	**118.604**	**150.130**	**527.284**	**128.108**
Arkansas	EGU	20.909	93.723	1.673	1.018	122.250	22.788	17.285
Arkansas	Non-EGU Point	206.880	103.990	90.724	5.516	35.890	41.439	29.699
Arkansas	Nonpoint	892.180	132.250	309.790	373.020	75.730	424.850	146.360
Arkansas	Nonroad	478.640	40.096	54.864	0.081	0.279	4.048	3.849
Arkansas	Onroad	1031.726	66.901	64.555	9.372	1.011	3.079	1.523
Arkansas Total		**2630.335**	**436.960**	**521.606**	**389.006**	**235.160**	**496.204**	**198.715**
California	C3 CMV	50.155	573.410	20.577		363.670	48.684	44.793
California	EGU	33.083	16.820	0.987	2.575	9.564	1.847	1.408
California	Non-EGU Point	570.030	299.340	153.460	32.181	79.065	106.350	60.370
California	Nonpoint	1656.100	640.850	1600.900	496.690	224.380	1065.000	334.900
California	Nonroad	3781.700	430.170	519.810	0.621	1.690	45.426	39.154
California	Onroad	9707.671	608.959	594.093	102.088	9.628	33.324	16.224
California Total		**15798.739**	**2569.549**	**2889.827**	**634.155**	**687.998**	**1300.631**	**496.849**
Colorado	EGU	23.655	141.850	1.834	1.182	81.897	24.786	18.799
Colorado	Non-EGU Point	119.400	72.659	57.123	0.350	13.746	39.523	20.370
Colorado	Nonpoint	245.480	153.450	334.230	181.760	17.857	358.650	70.498
Colorado	Nonroad	678.930	50.249	64.316	0.112	0.366	5.649	5.350
Colorado	Onroad	2202.466	112.619	104.638	16.401	1.584	5.124	2.496
Colorado Total		**3269.931**	**530.827**	**562.142**	**199.806**	**115.450**	**433.731**	**117.513**
Connecticut	C3 CMV	0.508	5.851	0.208		4.152	0.521	0.479
Connecticut	EGU	4.267	8.936	0.273	0.288	9.638	2.596	1.990
Connecticut	Non-EGU Point	26.880	18.112	7.504	0.683	5.191	1.077	0.796
Connecticut	Nonpoint	355.520	43.911	253.030	17.887	49.385	74.318	47.597
Connecticut	Nonroad	446.470	25.774	40.025	0.057	0.170	2.637	2.485
Connecticut	Onroad	851.699	35.904	30.553	10.003	0.961	2.794	1.313
Connecticut Total		**1685.344**	**138.488**	**331.594**	**28.918**	**69.496**	**83.942**	**54.661**
Delaware	C3 CMV	2.242	25.007	0.948		49.303	2.212	2.035
Delaware	EGU	3.366	8.879	0.263	0.194	14.954	3.193	2.434
Delaware	Non-EGU Point	32.567	15.589	11.125	0.507	30.449	5.694	4.739
Delaware	Nonpoint	67.403	20.210	36.340	45.326	15.892	26.677	10.679
Delaware	Nonroad	115.990	7.977	10.680	0.017	0.053	0.797	0.753
Delaware	Onroad	229.375	12.377	10.629	2.863	0.294	0.856	0.410
Delaware Total		**450.943**	**90.038**	**69.985**	**48.907**	**110.944**	**39.429**	**21.050**
District of Columbia	C3 CMV	0.000	0.006	0.000		0.004	0.000	0.000
District of Columbia	EGU	0.014	0.027	0.001	0.021	0.004	0.005	0.005
District of Columbia	Non-EGU Point	0.971	1.374	0.211	0.012	1.881	0.418	0.366
District of Columbia	Nonpoint	4.502	5.383	15.885	0.357	3.837	4.749	1.044
District of Columbia	Nonroad	30.974	4.034	2.422	0.009	0.033	0.347	0.333
District of Columbia	Onroad	94.789	5.009	4.861	1.209	0.122	0.347	0.162
District of Columbia Total		**131.251**	**15.832**	**23.381**	**1.607**	**5.879**	**5.866**	**1.911**
Florida	C3 CMV	44.656	517.970	18.729		352.720	46.117	42.427
Florida	EGU	111.270	185.240	6.203	8.356	520.660	52.511	40.341
Florida	Non-EGU Point	445.850	186.540	106.170	6.983	160.730	87.591	71.005
Florida	Nonpoint	883.400	166.900	1391.100	112.690	193.090	542.770	172.090
Florida	Nonroad	2888.500	187.700	299.250	0.433	1.315	19.106	18.060

* PM emissions include application of PM transport factor to fugitive dust sources

2018 Business as Usual Emissions Inventory
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		2018 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Florida	Onroad	6471.233	370.055	540.351	65.189	6.213	19.595	9.433
Florida Total		**10844.909**	**1614.405**	**2361.802**	**193.652**	**1234.727**	**767.690**	**353.356**
Georgia	C3 CMV	2.979	33.997	1.276		27.624	2.985	2.746
Georgia	EGU	58.477	117.400	4.259	3.105	247.260	55.722	42.264
Georgia	Non-EGU Point	326.850	167.110	93.369	15.277	157.410	48.134	36.184
Georgia	Nonpoint	1258.500	187.140	767.260	280.020	155.980	715.860	248.430
Georgia	Nonroad	1286.400	78.986	113.330	0.185	0.587	8.902	8.419
Georgia	Onroad	3800.548	267.693	254.496	37.342	3.854	12.286	6.040
Georgia Total		**6733.754**	**852.326**	**1233.990**	**335.929**	**592.715**	**843.889**	**344.083**
Idaho	EGU	0.412	0.147	0.011	0.032	0.003	0.002	0.002
Idaho	Non-EGU Point	96.065	29.300	5.910	3.388	47.095	9.020	5.959
Idaho	Nonpoint	378.560	99.939	179.690	176.890	6.733	491.720	108.550
Idaho	Nonroad	247.540	24.547	38.709	0.052	0.167	2.664	2.524
Idaho	Onroad	686.356	39.447	33.865	5.007	0.510	1.600	0.784
Idaho Total		**1408.933**	**193.380**	**258.184**	**185.368**	**54.509**	**505.006**	**117.819**
Illinois	C3 CMV	0.028	0.341	0.012		0.217	0.029	0.026
Illinois	EGU	52.144	131.620	4.504	2.264	407.700	61.903	47.032
Illinois	Non-EGU Point	356.660	280.520	177.780	3.309	379.330	69.604	43.881
Illinois	Nonpoint	406.830	320.340	733.120	317.240	17.082	1277.900	219.900
Illinois	Nonroad	1506.800	155.090	140.850	0.325	1.129	13.839	13.182
Illinois	Onroad	3602.192	225.715	185.518	33.162	3.447	11.038	5.470
Illinois Total		**5924.653**	**1113.626**	**1241.783**	**356.300**	**808.906**	**1434.313**	**329.492**
Indiana	C3 CMV	0.013	0.150	0.005		0.103	0.013	0.012
Indiana	EGU	69.395	272.120	5.951	3.136	905.610	82.930	62.923
Indiana	Non-EGU Point	1012.200	221.400	136.860	3.342	352.840	74.179	44.510
Indiana	Nonpoint	494.770	179.070	433.430	272.300	163.330	1050.300	230.790
Indiana	Nonroad	811.210	86.158	81.568	0.176	0.622	7.377	7.024
Indiana	Onroad	2617.479	160.170	140.227	22.914	2.292	7.630	3.782
Indiana Total		**5005.067**	**919.068**	**798.042**	**301.867**	**1424.797**	**1222.429**	**349.041**
Iowa	EGU	21.241	90.275	1.851	1.477	237.970	26.313	19.970
Iowa	Non-EGU Point	86.558	107.940	78.808	2.942	166.730	27.592	15.500
Iowa	Nonpoint	258.860	97.503	220.150	740.010	54.400	900.520	146.890
Iowa	Nonroad	527.740	95.094	59.119	0.168	0.602	7.710	7.403
Iowa	Onroad	1502.521	97.973	90.378	9.598	1.073	3.354	1.687
Iowa Total		**2396.920**	**488.785**	**450.306**	**754.194**	**460.774**	**965.489**	**191.450**
Kansas	EGU	19.169	79.081	1.676	0.866	88.216	23.562	17.884
Kansas	Non-EGU Point	122.100	194.920	64.974	168.670	35.818	35.194	21.046
Kansas	Nonpoint	2357.900	186.740	350.710	305.190	100.470	1527.500	378.940
Kansas	Nonroad	384.830	70.119	33.967	0.120	0.458	5.914	5.686
Kansas	Onroad	1362.438	89.899	92.811	8.731	0.922	2.962	1.478
Kansas Total		**4246.437**	**620.759**	**544.138**	**483.577**	**225.883**	**1595.132**	**425.034**
Kentucky	EGU	52.139	199.570	4.786	3.041	586.190	68.258	51.769
Kentucky	Non-EGU Point	159.240	103.710	135.300	2.696	71.350	44.446	29.246
Kentucky	Nonpoint	671.430	164.670	313.980	155.040	94.097	348.340	119.730
Kentucky	Nonroad	493.710	45.700	57.247	0.091	0.305	4.378	4.162
Kentucky	Onroad	1712.411	110.214	88.216	15.343	1.508	5.077	2.500
Kentucky Total		**3088.930**	**623.864**	**599.530**	**176.210**	**753.450**	**470.499**	**207.408**
Louisiana	C3 CMV	32.517	366.820	13.394		238.780	31.986	29.426
Louisiana	EGU	22.325	99.861	1.624	1.195	185.650	19.877	15.098
Louisiana	Non-EGU Point	431.970	449.230	203.530	15.468	420.420	131.980	108.280
Louisiana	Nonpoint	975.630	402.870	419.960	171.860	10.611	340.810	137.050
Louisiana	Nonroad	628.850	45.656	85.574	0.098	0.301	4.306	4.071
Louisiana	Onroad	1283.562	87.164	88.027	13.382	1.378	4.324	2.126
Louisiana Total		**3374.854**	**1451.601**	**812.110**	**202.002**	**857.140**	**533.284**	**296.051**
Maine	C3 CMV	1.796	20.829	0.752		13.972	1.819	1.674
Maine	EGU	3.744	2.466	0.129	0.286	7.592	0.527	0.402
Maine	Non-EGU Point	59.412	50.712	13.638	1.761	50.804	15.185	10.504
Maine	Nonpoint	549.620	32.849	137.890	23.929	28.764	101.990	70.961

* PM emissions include application of PM transport factor to fugitive dust sources

2018 Business as Usual Emissions Inventory
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		2018 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Maine	Nonroad	264.860	14.303	51.810	0.040	0.099	2.131	1.988
Maine	Onroad	565.836	30.562	26.022	4.479	2.860	1.494	0.740
Maine Total		**1445.267**	**151.720**	**230.241**	**30.495**	**104.090**	**123.146**	**86.269**
Maryland	C3 CMV	7.313	84.803	3.097		55.151	7.386	6.795
Maryland	EGU	15.654	57.380	1.449	0.780	158.680	18.845	14.358
Maryland	Non-EGU Point	321.540	72.847	15.694	0.410	96.373	25.933	18.143
Maryland	Nonpoint	499.350	80.529	341.580	83.887	111.490	176.670	75.165
Maryland	Nonroad	736.880	42.323	66.506	0.098	0.287	4.781	4.505
Maryland	Onroad	1480.822	75.348	69.825	18.453	1.883	5.975	2.961
Maryland Total		**3061.559**	**413.230**	**498.151**	**103.628**	**423.864**	**239.590**	**121.927**
Massachusetts	C3 CMV	13.749	159.250	5.823		105.470	13.849	12.741
Massachusetts	EGU	17.876	20.226	0.844	1.273	43.049	6.378	4.870
Massachusetts	Non-EGU Point	101.870	55.859	23.002	0.918	53.869	9.119	6.381
Massachusetts	Nonpoint	405.980	107.380	428.660	20.881	53.924	234.490	89.206
Massachusetts	Nonroad	752.980	43.171	67.649	0.097	0.287	4.378	4.129
Massachusetts	Onroad	1455.753	64.148	53.133	17.200	6.554	5.298	2.547
Massachusetts Total		**2748.208**	**450.034**	**579.111**	**40.369**	**263.152**	**273.512**	**119.873**
Michigan	C3 CMV	2.915	36.105	1.238		21.674	2.920	2.686
Michigan	EGU	46.108	178.000	3.412	2.403	524.340	44.669	33.887
Michigan	Non-EGU Point	313.250	265.160	103.870	3.051	215.370	51.566	34.520
Michigan	Nonpoint	567.350	162.620	595.300	166.560	114.400	643.060	150.290
Michigan	Nonroad	1557.900	105.110	242.300	0.268	0.764	11.664	10.963
Michigan	Onroad	3803.836	235.997	199.674	29.121	3.096	10.151	5.088
Michigan Total		**6291.359**	**982.992**	**1145.794**	**201.403**	**879.644**	**764.030**	**237.435**
Minnesota	C3 CMV	0.084	1.021	0.035		0.663	0.087	0.080
Minnesota	EGU	15.617	88.569	1.332	0.739	91.059	18.779	14.247
Minnesota	Non-EGU Point	133.850	188.940	67.843	77.054	87.325	53.720	28.037
Minnesota	Nonpoint	484.930	244.510	275.850	388.850	39.695	1071.700	192.160
Minnesota	Nonroad	944.120	106.210	168.750	0.214	0.686	10.683	10.139
Minnesota	Onroad	2264.137	130.195	99.690	16.879	1.809	5.524	2.725
Minnesota Total		**3842.738**	**759.445**	**613.501**	**483.736**	**221.236**	**1160.493**	**247.388**
Mississippi	C3 CMV	0.407	4.611	0.165		3.380	0.424	0.390
Mississippi	EGU	16.560	33.434	1.070	1.023	97.988	12.074	9.183
Mississippi	Non-EGU Point	161.060	145.520	107.710	3.245	81.052	49.670	29.638
Mississippi	Nonpoint	1424.800	162.670	475.290	195.210	18.854	535.740	207.670
Mississippi	Nonroad	375.380	32.514	53.252	0.066	0.219	3.170	3.004
Mississippi	Onroad	1116.740	78.463	74.879	11.106	1.079	4.089	2.077
Mississippi Total		**3094.947**	**457.212**	**712.366**	**210.650**	**202.572**	**605.167**	**251.962**
Missouri	EGU	39.810	133.790	3.497	1.774	409.060	49.818	37.786
Missouri	Non-EGU Point	255.930	116.990	58.501	3.687	253.000	34.388	19.647
Missouri	Nonpoint	694.680	220.140	482.790	315.070	124.470	1089.400	203.310
Missouri	Nonroad	814.470	79.531	86.110	0.155	0.524	7.403	7.050
Missouri	Onroad	2570.986	166.707	138.734	21.528	2.338	7.123	3.526
Missouri Total		**4375.876**	**717.158**	**769.632**	**342.214**	**789.392**	**1188.132**	**271.319**
Montana	EGU	9.020	64.356	0.821	0.384	55.882	11.898	9.025
Montana	Non-EGU Point	83.958	15.335	20.499	0.583	20.891	17.424	7.557
Montana	Nonpoint	182.860	88.278	105.650	128.510	6.063	533.730	89.340
Montana	Nonroad	184.360	28.704	21.904	0.051	0.189	2.642	2.532
Montana	Onroad	433.699	24.606	19.988	3.205	0.321	1.080	0.537
Montana Total		**893.896**	**221.279**	**168.863**	**132.734**	**83.345**	**566.773**	**108.991**
Nebraska	EGU	12.114	86.367	1.100	0.519	182.080	15.907	12.066
Nebraska	Non-EGU Point	40.148	34.387	18.416	4.075	17.743	10.112	5.241
Nebraska	Nonpoint	210.590	155.390	125.990	479.810	82.487	844.260	121.330
Nebraska	Nonroad	257.180	59.922	26.135	0.100	0.387	4.975	4.791
Nebraska	Onroad	862.822	63.425	52.875	5.634	0.643	2.127	1.090
Nebraska Total		**1382.854**	**399.491**	**224.516**	**490.139**	**283.340**	**877.381**	**144.517**
Nevada	EGU	10.822	34.343	0.556	0.699	23.335	5.478	4.155
Nevada	Non-EGU Point	96.752	47.690	10.592	0.548	7.137	18.955	11.027

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		2018 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Nevada	Nonpoint	62.664	32.557	82.885	17.251	34.463	212.090	33.760
Nevada	Nonroad	356.250	26.545	31.732	0.063	0.207	3.028	2.868
Nevada	Onroad	724.767	35.874	41.059	6.596	0.581	1.760	0.815
Nevada Total		**1251.255**	**177.009**	**166.824**	**25.157**	**65.722**	**241.311**	**52.625**
New Hampshire	C3 CMV	0.011	0.125	0.005		0.080	0.011	0.010
New Hampshire	EGU	5.838	12.704	0.310	0.395	17.758	2.581	1.959
New Hampshire	Non-EGU Point	20.458	9.882	2.601	0.142	8.992	1.988	1.697
New Hampshire	Nonpoint	566.030	44.658	127.330	6.377	19.501	89.353	74.799
New Hampshire	Nonroad	222.830	12.888	33.099	0.032	0.085	1.543	1.446
New Hampshire	Onroad	385.288	20.414	15.560	4.138	2.140	1.390	0.691
New Hampshire Total		**1200.454**	**100.672**	**178.904**	**11.083**	**48.556**	**96.865**	**80.602**
New Jersey	C3 CMV	9.456	106.670	4.035		87.928	9.519	8.758
New Jersey	EGU	15.025	31.126	0.767	0.963	49.998	7.298	5.547
New Jersey	Non-EGU Point	79.697	62.854	30.910	1.276	23.278	9.062	7.146
New Jersey	Nonpoint	279.550	112.540	422.880	24.477	29.502	117.480	44.977
New Jersey	Nonroad	1142.500	62.308	98.774	0.141	0.405	6.431	6.061
New Jersey	Onroad	1863.233	87.156	81.181	23.962	2.310	7.158	3.502
New Jersey Total		**3389.461**	**462.654**	**638.547**	**50.819**	**193.421**	**156.948**	**75.991**
New Mexico	EGU	16.714	126.350	1.338	0.860	47.305	17.495	13.281
New Mexico	Non-EGU Point	99.917	121.640	32.825	0.080	21.645	5.370	4.182
New Mexico	Nonpoint	488.610	292.110	840.100	101.400	8.657	1265.300	168.190
New Mexico	Nonroad	204.790	14.042	20.322	0.032	0.100	1.493	1.414
New Mexico	Onroad	959.068	57.121	54.270	8.016	0.798	2.617	1.290
New Mexico Total		**1769.099**	**611.263**	**948.854**	**110.388**	**78.504**	**1292.275**	**188.357**
New York	C3 CMV	5.456	62.730	2.347		40.014	5.415	4.982
New York	EGU	42.794	90.092	2.180	3.134	134.420	13.488	10.415
New York	Non-EGU Point	298.800	182.000	39.953	5.446	225.930	21.560	15.283
New York	Nonpoint	1208.600	345.200	1100.100	156.270	321.510	590.360	206.940
New York	Nonroad	2176.000	118.910	210.310	0.279	0.805	12.386	11.688
New York	Onroad	4908.219	204.942	232.225	45.918	5.441	18.389	9.327
New York Total		**8639.869**	**1003.874**	**1587.114**	**211.047**	**728.120**	**661.597**	**258.635**
North Carolina	C3 CMV	23.235	269.720	9.861		176.220	23.263	21.402
North Carolina	EGU	39.478	138.110	3.389	1.629	200.800	48.792	37.079
North Carolina	Non-EGU Point	233.240	136.460	156.670	5.083	195.150	48.201	36.588
North Carolina	Nonpoint	1713.700	112.350	694.070	497.420	56.314	441.930	218.310
North Carolina	Nonroad	1499.500	80.983	119.970	0.189	0.616	8.931	8.454
North Carolina	Onroad	2498.521	173.282	191.712	26.615	2.899	8.890	4.361
North Carolina Total		**6007.674**	**910.905**	**1175.672**	**530.935**	**632.000**	**580.007**	**326.193**
North Dakota	EGU	14.567	157.310	1.327	0.619	107.740	19.216	14.575
North Dakota	Non-EGU Point	30.749	21.106	4.165	0.420	25.966	2.083	1.752
North Dakota	Nonpoint	60.734	102.490	92.441	197.450	16.276	774.030	116.060
North Dakota	Nonroad	149.310	58.901	20.467	0.094	0.372	4.747	4.583
North Dakota	Onroad	288.603	16.920	13.716	2.093	0.215	0.734	0.369
North Dakota Total		**543.963**	**356.727**	**132.116**	**200.675**	**150.569**	**800.810**	**137.338**
Ohio	C3 CMV	0.676	8.335	0.287		5.078	0.681	0.627
Ohio	EGU	65.103	255.020	5.730	2.877	749.420	81.881	62.106
Ohio	Non-EGU Point	698.440	206.340	93.877	16.010	367.020	52.173	38.371
Ohio	Nonpoint	894.220	271.110	878.030	305.120	61.735	714.850	184.580
Ohio	Nonroad	1523.600	117.530	139.850	0.263	0.886	11.086	10.501
Ohio	Onroad	3776.986	233.118	199.789	32.882	3.282	10.908	5.402
Ohio Total		**6959.025**	**1091.453**	**1317.563**	**357.152**	**1187.422**	**871.580**	**301.587**
Oklahoma	EGU	32.194	202.400	2.091	1.858	215.820	23.583	17.893
Oklahoma	Non-EGU Point	173.070	203.510	124.450	8.661	101.350	28.397	16.971
Oklahoma	Nonpoint	1224.400	307.900	563.950	311.290	21.102	1274.700	260.070
Oklahoma	Nonroad	507.200	46.838	51.709	0.092	0.309	4.392	4.180
Oklahoma	Onroad	2257.507	150.107	168.005	15.045	1.573	5.060	2.519
Oklahoma Total		**4194.371**	**910.755**	**910.206**	**336.947**	**340.154**	**1336.132**	**301.633**
Oregon	C3 CMV	6.881	77.263	3.035		49.114	6.776	6.234

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2018 Business as Usual Emissions Inventory
State Level Totals - 36km Domain

		2018 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Oregon	EGU	8.786	4.192	0.351	0.618	5.583	2.567	1.943
Oregon	Non-EGU Point	176.270	66.535	46.246	2.117	27.284	34.349	24.723
Oregon	Nonpoint	1147.400	124.020	483.640	118.650	25.841	349.670	179.090
Oregon	Nonroad	527.230	38.532	57.600	0.084	0.272	4.112	3.889
Oregon	Onroad	1336.384	76.655	69.924	11.284	1.135	3.511	1.709
Oregon Total		**3202.951**	**387.197**	**660.796**	**132.753**	**109.229**	**400.985**	**217.588**
Pennsylvania	C3 CMV	1.005	11.546	0.401		11.617	1.043	0.959
Pennsylvania	EGU	68.942	264.690	5.722	3.324	805.560	77.615	58.950
Pennsylvania	Non-EGU Point	351.010	244.750	96.631	4.929	217.720	62.951	39.780
Pennsylvania	Nonpoint	1735.200	271.610	893.360	244.460	180.400	509.160	228.470
Pennsylvania	Nonroad	1570.200	84.381	144.570	0.196	0.601	9.746	9.195
Pennsylvania	Onroad	3565.753	200.734	177.866	32.216	3.436	10.431	5.128
Pennsylvania Total		**7292.111**	**1077.711**	**1318.549**	**285.125**	**1219.333**	**670.945**	**342.483**
Rhode Island	C3 CMV	1.200	13.941	0.507		10.419	1.205	1.109
Rhode Island	EGU	4.872	0.948	0.125	0.381	0.036	0.018	0.011
Rhode Island	Non-EGU Point	13.073	6.903	4.276	0.042	7.615	1.140	0.739
Rhode Island	Nonpoint	24.859	8.580	53.880	1.330	8.579	10.892	4.064
Rhode Island	Nonroad	114.620	6.711	9.711	0.014	0.043	0.608	0.574
Rhode Island	Onroad	293.699	12.923	14.564	2.666	0.243	0.738	0.342
Rhode Island Total		**452.323**	**50.005**	**83.062**	**4.434**	**26.934**	**14.602**	**6.840**
South Carolina	C3 CMV	8.987	103.310	3.822		81.324	9.027	8.305
South Carolina	EGU	27.265	81.870	2.329	1.235	328.930	32.796	24.884
South Carolina	Non-EGU Point	154.370	86.788	49.026	4.292	110.620	21.437	14.165
South Carolina	Nonpoint	1016.000	102.350	435.310	88.773	81.264	339.380	136.750
South Carolina	Nonroad	749.760	39.954	64.382	0.094	0.305	4.345	4.109
South Carolina	Onroad	1608.438	105.416	108.288	15.008	1.553	4.940	2.442
South Carolina Total		**3564.820**	**519.688**	**663.156**	**109.401**	**603.996**	**411.925**	**190.655**
South Dakota	EGU	1.211	24.317	0.108	0.056	2.702	1.542	1.170
South Dakota	Non-EGU Point	33.224	15.239	6.501	0.630	8.351	9.076	6.306
South Dakota	Nonpoint	94.228	23.395	71.110	285.200	28.012	561.470	93.222
South Dakota	Nonroad	136.720	41.931	18.644	0.068	0.265	3.448	3.323
South Dakota	Onroad	321.753	20.350	15.332	2.536	0.260	0.896	0.451
South Dakota Total		**587.137**	**125.232**	**111.695**	**288.490**	**39.590**	**576.432**	**104.472**
Tennessee	EGU	26.574	91.079	2.415	1.174	298.880	34.865	26.452
Tennessee	Non-EGU Point	335.280	176.760	213.770	4.771	213.780	78.681	61.201
Tennessee	Nonpoint	886.140	146.570	448.020	103.970	90.002	371.720	143.220
Tennessee	Nonroad	766.940	57.827	84.068	0.122	0.400	5.797	5.491
Tennessee	Onroad	2627.671	204.301	161.712	22.902	2.448	8.157	4.111
Tennessee Total		**4642.605**	**676.537**	**909.985**	**132.939**	**605.510**	**499.220**	**240.475**
Texas	C3 CMV	13.793	145.410	5.465		109.590	14.623	13.453
Texas	EGU	197.400	341.470	10.763	12.406	1165.700	108.850	82.625
Texas	Non-EGU Point	898.630	797.820	384.930	9.775	429.500	126.300	99.247
Texas	Nonpoint	1747.100	1115.200	1954.800	1017.600	302.220	3837.200	562.760
Texas	Nonroad	2757.500	210.690	239.380	0.456	1.510	20.947	19.904
Texas	Onroad	5616.712	342.438	354.608	72.893	7.440	23.536	11.348
Texas Total		**11231.135**	**2953.028**	**2949.947**	**1113.130**	**2015.961**	**4131.456**	**789.337**
Utah	EGU	18.273	162.810	1.555	0.840	52.667	21.822	16.552
Utah	Non-EGU Point	158.270	67.665	17.446	1.189	32.355	22.221	10.260
Utah	Nonpoint	300.880	57.535	362.540	64.150	7.942	450.850	75.703
Utah	Nonroad	335.020	21.397	42.363	0.051	0.160	2.525	2.385
Utah	Onroad	1113.014	53.266	51.863	9.173	0.900	2.776	1.339
Utah Total		**1925.457**	**362.673**	**475.767**	**75.403**	**94.024**	**500.194**	**106.239**
Vermont	EGU	0.003	0.003	0.001	0.001	0.000	0.001	0.000
Vermont	Non-EGU Point	12.460	2.538	3.392	0.056	2.512	1.403	1.016
Vermont	Nonpoint	292.550	14.709	54.608	25.133	16.736	74.909	38.307
Vermont	Nonroad	104.520	6.491	18.135	0.016	0.045	0.857	0.803
Vermont	Onroad	360.438	16.933	15.648	3.084	0.315	1.332	0.704
Vermont Total		**769.971**	**40.673**	**91.784**	**28.290**	**19.608**	**78.501**	**40.830**

* PM emissions include application of PM transport factor to fugitive dust sources

2018 Business as Usual Emissions Inventory
State Level Totals - 36km Domain

		2018 Emissions (Tons Per Day)						
State	**Source**	**CO**	**NOX**	**VOC**	**NH3**	**SO2**	**PM10***	**PM2_5***
Virginia	C3 CMV	6.581	76.381	2.796		51.449	6.630	6.099
Virginia	EGU	20.968	120.060	1.756	1.133	272.780	16.519	12.600
Virginia	Non-EGU Point	257.980	177.510	108.550	5.410	190.670	39.819	31.312
Virginia	Nonpoint	1047.200	219.210	543.000	139.930	88.660	346.830	146.200
Virginia	Nonroad	1080.500	62.106	89.336	0.145	0.453	7.081	6.689
Virginia	Onroad	2764.658	155.556	148.888	26.201	2.662	8.631	4.208
Virginia Total		**5177.886**	**810.823**	**894.325**	**172.820**	**606.674**	**425.510**	**207.108**
Washington	C3 CMV	12.322	139.210	5.531		89.953	12.657	11.645
Washington	EGU	8.874	27.399	0.498	0.546	5.982	5.475	4.151
Washington	Non-EGU Point	214.150	77.163	39.970	2.207	58.740	17.746	13.141
Washington	Nonpoint	777.090	135.530	360.380	125.660	20.148	360.170	131.170
Washington	Nonroad	846.470	63.499	89.063	0.138	0.445	6.518	6.169
Washington	Onroad	2377.178	142.156	124.153	19.509	1.999	6.319	3.110
Washington Total		**4236.084**	**584.957**	**619.596**	**148.061**	**177.266**	**408.885**	**169.386**
West Virginia	C3 CMV	0.010	0.113	0.004		0.073	0.010	0.009
West Virginia	EGU	43.316	175.560	3.984	1.823	457.630	56.543	42.897
West Virginia	Non-EGU Point	200.480	99.394	33.507	2.042	121.300	21.288	13.929
West Virginia	Nonpoint	584.600	94.799	165.950	31.773	39.740	145.710	79.774
West Virginia	Nonroad	227.410	12.555	29.208	0.029	0.083	1.599	1.504
West Virginia	Onroad	626.548	41.805	33.563	5.329	0.553	1.767	0.875
West Virginia Total		**1682.364**	**424.227**	**266.216**	**40.996**	**619.379**	**226.917**	**138.988**
Wisconsin	C3 CMV	0.208	2.576	0.088		1.575	0.211	0.194
Wisconsin	EGU	27.501	82.755	2.297	1.574	219.110	31.400	23.826
Wisconsin	Non-EGU Point	199.030	118.570	83.438	1.340	187.970	31.615	21.805
Wisconsin	Nonpoint	823.230	113.800	432.510	321.690	15.724	375.080	145.180
Wisconsin	Nonroad	981.850	81.296	169.030	0.187	0.553	8.371	7.887
Wisconsin	Onroad	2139.644	116.233	86.878	19.021	2.047	6.319	3.124
Wisconsin Total		**4171.463**	**515.230**	**774.242**	**343.811**	**426.979**	**452.996**	**202.017**
Wyoming	EGU	22.656	131.000	2.063	0.963	79.893	29.877	22.662
Wyoming	Non-EGU Point	59.793	86.473	35.769	1.297	67.348	36.008	28.063
Wyoming	Nonpoint	125.440	158.710	838.760	52.906	17.773	703.840	85.270
Wyoming	Nonroad	97.026	8.601	16.158	0.019	0.058	0.956	0.903
Wyoming	Onroad	360.493	20.167	16.407	2.620	0.261	0.877	0.435
Wyoming Total		**665.408**	**404.951**	**909.157**	**57.805**	**165.333**	**771.558**	**137.334**

* PM emissions include application of PM transport factor to fugitive dust sources

ALPINE GEOPHYSICS

ENVIRON

ALPINE GEOPHYSICS

ENVIRON

Appendix F

Data Supporting Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

ALPINE GEOPHYSICS

ENVIRON

Table F-1. Data Supporting Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule; Ozone Design Values

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

				Transport Rule Values											RRFs			
	Monitor ID	State	County	Avg DV-03-07	Max DV-03-07		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base	Max DV-2014 base		Avg DV-2014 remedy	Max DV-2014 remedy		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base
	010030010	Alabama	Baldwin	77.3	78.0		70.7	71.4		69.0	69.7		66.8	67.5		1.093352	1.092437		1.12029
	010270001	Alabama	Clay	74.0	76.0		64.8	66.5		61.2	62.9		60.6	62.3		1.141975	1.142857		1.20915
	010331002	Alabama	Colbert	72.0	74.0		64.5	66.3		62.7	64.4		62.5	64.2		1.116279	1.116139		1.148325
	010510001	Alabama	Elmore	70.7	71.0		62.0	62.3		59.6	59.9		59.3	59.6		1.140323	1.139647		1.186242
	010550011	Alabama	Etowah	71.7	73.0		61.6	62.7		58.7	59.7		58.3	59.4		1.163961	1.164274		1.221465
	010690004	Alabama	Houston	71.0	71.0		62.8	62.8		60.1	60.1		59.8	59.8		1.130573	1.130573		1.181364
	010730023	Alabama	Jefferson	78.7	86.0		69.6	76.1		67.1	73.3		66.9	73.1		1.130747	1.130092		1.172876
	010731003	Alabama	Jefferson	79.0	84.0		69.7	74.1		67.1	71.4		66.9	71.2		1.133429	1.133603		1.177347
	010731005	Alabama	Jefferson	81.0	86.0		71.0	75.4		68.1	72.3		67.9	72.1		1.140845	1.140584		1.189427
	010731009	Alabama	Jefferson	77.0	82.0		66.4	70.7		64.0	68.1		63.8	67.9		1.159639	1.15983		1.203125
	010731010	Alabama	Jefferson	73.0	75.0		63.8	65.6		61.2	62.9		61.0	62.7		1.144201	1.143293		1.19281
	010732006	Alabama	Jefferson	83.7	89.0		74.0	78.7		71.3	75.8		71.1	75.6		1.131081	1.130877		1.173913
	010735002	Alabama	Jefferson	74.0	77.0		65.3	67.9		62.8	65.4		62.6	65.1		1.133231	1.134021		1.178344
	010735003	Alabama	Jefferson	77.0	82.0		66.6	71.0		64.2	68.4		63.9	68.1		1.156156	1.15493		1.199377
	010736002	Alabama	Jefferson	81.3	89.0		72.0	78.8		69.4	76.0		69.2	75.8		1.129167	1.129442		1.17147
	010790002	Alabama	Lawrence	72.0	74.0		63.2	64.9		60.6	62.3		60.5	62.2		1.139241	1.140216		1.188119
	010890014	Alabama	Madison	77.3	78.0		67.9	68.6		64.6	65.2		64.5	65.1		1.138439	1.137026		1.196594
	010970003	Alabama	Mobile	76.7	78.0		69.8	71.0		68.1	69.3		66.4	67.6		1.098854	1.098592		1.126285
	010972005	Alabama	Mobile	76.7	77.0		70.0	70.3		68.2	68.5		66.3	66.6		1.095714	1.095306		1.124633
	011011002	Alabama	Montgomery	69.3	74.0		60.6	64.7		58.2	62.1		58.0	61.9		1.143564	1.14374		1.190722
	011030011	Alabama	Morgan	77.3	79.0		70.2	71.8		67.9	69.4		67.7	69.2		1.10114	1.100279		1.138439
	011130002	Alabama	Russell	71.3	75.0		63.0	66.3		59.8	62.9		59.4	62.5		1.131746	1.131222		1.192308
	011170004	Alabama	Shelby	85.7	88.0		75.2	77.2		72.2	74.1		72.0	73.9		1.139628	1.139896		1.186981
	011190002	Alabama	Sumter	64.0	66.0		58.2	60.1		56.4	58.1		56.3	58.1		1.099656	1.09817		1.134752
	011210003	Alabama	Talladega	72.0	72.0		62.4	62.4		59.7	59.7		59.4	59.4		1.153846	1.153846		1.20603
	011250010	Alabama	Tuscaloosa	73.3	77.0		63.3	66.5		60.6	63.7		60.5	63.5		1.157978	1.157895		1.209571
	050350005	Arkansas	Crittenden	87.3	89.0		77.3	78.8		74.5	76.0		74.4	75.8		1.129366	1.129442		1.171812
	051190007	Arkansas	Pulaski	78.3	80.0		69.0	70.5		66.6	68.0		65.4	66.8		1.134783	1.134752		1.175676
	051191002	Arkansas	Pulaski	79.7	83.0		70.2	73.1		67.6	70.4		66.5	69.3		1.135328	1.135431		1.178994
	051191005	Arkansas	Pulaski	74.0	75.0		65.4	66.3		63.1	64.0		62.0	62.9		1.131498	1.131222		1.172742
	080013001	Colorado	Adams	69.0	70.0		66.8	67.7		66.2	67.1		66.2	67.1		1.032934	1.033973		1.042296
	080050002	Colorado	Arapahoe	78.7	81.0		76.0	78.2		75.1	77.3		75.1	77.3		1.035526	1.035806		1.047936
	080130011	Colorado	Boulder	77.0	81.0		73.4	77.2		72.2	76.0		72.3	76.0		1.049046	1.049223		1.066482
	080310002	Colorado	Denver	56.0	56.0		54.2	54.2		53.7	53.7		53.7	53.7		1.03321	1.03321		1.042831
	080310014	Colorado	Denver	73.0	75.0		70.7	72.6		70.0	71.9		70.0	71.9		1.032532	1.033058		1.042857
	080350004	Colorado	Douglas	83.0	84.0		79.3	80.3		78.0	79.0		78.1	79.0		1.046658	1.046077		1.064103
	080590002	Colorado	Jefferson	76.3	79.0		73.9	76.6		73.2	75.8		73.3	75.9		1.032476	1.031332		1.04235
	080590005	Colorado	Jefferson	70.3	75.0		67.9	72.4		67.0	71.5		67.1	71.5		1.035346	1.035912		1.049254
	080590006	Colorado	Jefferson	81.7	85.0		78.1	81.3		76.9	80.1		77.0	80.1		1.046095	1.04551		1.062419
	080590011	Colorado	Jefferson	80.7	82.0		78.2	79.5		77.5	78.7		77.5	78.7		1.031969	1.031447		1.04129
	080691004	Colorado	Larimer	72.3	74.0		68.4	70.0		67.3	68.9		67.4	69.0		1.057018	1.057143		1.074294
	081230009	Colorado	Weld	76.7	78.0		72.7	73.9		71.6	72.9		71.7	72.9		1.055021	1.05548		1.071229
	090010017	Connecticut	Fairfield	88.0	90.0		83.1	85.0		81.4	83.3		81.3	83.2		1.058965	1.058824		1.081081
	090011123	Connecticut	Fairfield	92.3	94.0		84.8	86.4		82.7	84.2		82.6	84.1		1.088443	1.087963		1.116082
	090013007	Connecticut	Fairfield	90.0	92.0		84.5	86.4		82.7	84.5		82.5	84.4		1.065089	1.064815		1.088271
	090019003	Connecticut	Fairfield	87.7	89.0		82.8	84.0		81.1	82.3		81.0	82.2		1.059179	1.059524		1.081381
	090031003	Connecticut	Hartford	84.3	90.0		75.0	80.1		72.7	77.7		72.7	77.6		1.124	1.123596		1.15956
	090050005	Connecticut	Litchfield	87.7	89.0		78.0	79.1		75.5	76.7		75.5	76.6		1.124359	1.125158		1.161589
	090070007	Connecticut	Middlesex	90.3	92.0		81.8	83.4		79.6	81.1		79.5	81.0		1.103912	1.103118		1.134422
	090090027	Connecticut	New Haven	79.3	81.0		73.3	74.9		71.5	73.0		71.4	72.9		1.081855	1.081442		1.109091

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

				Transport Rule Values											RRFs			
	Monitor ID	State	County	Avg DV-03-07	Max DV-03-07		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base	Max DV-2014 base		Avg DV-2014 remedy	Max DV-2014 remedy		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base
	090093002	Connecticut	New Haven	90.3	93.0		82.9	85.4		80.7	83.2		80.6	83.0		1.089264	1.088993		1.118959
	090110008	Connecticut	New London	85.3	88.0		77.1	79.5		75.0	77.4		74.9	77.3		1.106355	1.106918		1.137333
	090131001	Connecticut	Tolland	88.7	91.0		78.0	80.1		75.5	77.5		75.4	77.4		1.137179	1.13608		1.174834
	100010002	Delaware	Kent	80.3	81.0		70.8	71.4		68.8	69.4		68.7	69.3		1.134181	1.134454		1.167151
	100031007	Delaware	New Castle	80.0	82.0		70.5	72.3		68.7	70.4		68.6	70.3		1.134752	1.134163		1.164483
	100031010	Delaware	New Castle	82.3	83.0		74.4	75.0		72.6	73.3		72.6	73.2		1.106183	1.106667		1.133609
	100031013	Delaware	New Castle	81.3	82.0		72.7	73.3		70.9	71.5		70.8	71.4		1.118294	1.11869		1.146685
	100051002	Delaware	Sussex	81.3	82.0		71.4	72.0		69.3	69.9		69.2	69.8		1.138655	1.138889		1.17316
	100051003	Delaware	Sussex	82.7	84.0		73.9	75.0		72.0	73.2		72.0	73.1		1.11908	1.12		1.148611
	110010025	District Of Columbia	District of Columbia	79.7	81.0		74.3	75.5		72.6	73.8		72.6	73.7		1.072678	1.072848		1.097796
	110010041	District Of Columbia	District of Columbia	80.3	85.0		75.4	79.8		73.7	78.0		73.5	77.8		1.064987	1.065163		1.089552
	110010043	District Of Columbia	District of Columbia	84.7	87.0		79.5	81.7		77.7	79.8		77.6	79.7		1.065409	1.064871		1.09009
	120010025	Florida	Alachua	72.0	72.0		65.7	65.7		63.2	63.2		59.9	59.9		1.09589	1.09589		1.139241
	120030002	Florida	Baker	68.7	70.0		62.0	63.2		59.6	60.8		58.2	59.3		1.108065	1.107595		1.152685
	120050006	Florida	Bay	78.7	81.0		72.1	74.3		69.7	71.8		66.9	68.8		1.09154	1.090175		1.129125
	120090007	Florida	Brevard	69.0	69.0		63.9	63.9		60.8	60.8		60.0	60.0		1.079812	1.079812		1.134868
	120094001	Florida	Brevard	71.3	72.0		66.3	66.9		62.9	63.5		62.0	62.6		1.075415	1.076233		1.133545
	120110031	Florida	Broward	62.0	63.0		60.7	61.6		60.4	61.3		60.3	61.2		1.021417	1.022727		1.02649
	120112003	Florida	Broward	61.3	63.0		58.1	59.7		57.1	58.7		56.9	58.5		1.055077	1.055276		1.073555
	120118002	Florida	Broward	65.0	67.0		62.3	64.2		61.5	63.4		61.3	63.1		1.043339	1.043614		1.056911
	120210004	Florida	Collier	68.3	69.0		60.4	61.0		58.1	58.7		57.8	58.3		1.130795	1.131148		1.175559
	120230002	Florida	Columbia	72.0	72.0		65.0	65.0		62.4	62.4		61.3	61.3		1.107692	1.107692		1.153846
	120310077	Florida	Duval	77.0	77.0		72.2	72.2		70.2	70.2		68.5	68.5		1.066482	1.066482		1.096866
	120310100	Florida	Duval	77.7	79.0		72.3	73.5		70.0	71.2		68.2	69.4		1.074689	1.07483		1.11
	120330004	Florida	Escambia	79.7	81.0		75.9	77.2		74.3	75.6		69.6	70.8		1.050066	1.049223		1.072678
	120330018	Florida	Escambia	82.7	83.0		78.5	78.8		76.8	77.0		71.2	71.4		1.053503	1.053299		1.076823
	120330024	Florida	Escambia	80.7	81.0		76.6	76.9		74.9	75.2		69.4	69.7		1.053525	1.053316		1.077437
	120570081	Florida	Hillsborough	78.7	80.0		75.3	76.6		73.5	74.7		72.9	74.1		1.045153	1.044386		1.070748
	120570110	Florida	Hillsborough	76.0	76.0		70.5	70.5		68.9	68.9		68.3	68.3		1.078014	1.078014		1.103048
	120571035	Florida	Hillsborough	74.0	76.0		72.0	73.9		70.4	72.3		69.8	71.7		1.027778	1.028417		1.051136
	120571065	Florida	Hillsborough	80.7	81.0		77.9	78.2		76.0	76.2		75.1	75.4		1.035944	1.035806		1.061842
	120573002	Florida	Hillsborough	77.5	78.0		72.3	72.7		70.7	71.1		70.4	70.8		1.071923	1.072902		1.096181
	120574004	Florida	Hillsborough	74.0	74.0		68.1	68.1		66.4	66.4		66.0	66.0		1.086637	1.086637		1.114458
	120690002	Florida	Lake	76.7	77.0		69.9	70.2		66.8	67.1		66.1	66.4		1.097282	1.096866		1.148204
	120712002	Florida	Lee	70.3	72.0		62.8	64.4		60.7	62.1		60.3	61.7		1.119427	1.118012		1.158155
	120713002	Florida	Lee	70.3	71.0		62.8	63.4		60.6	61.2		60.1	60.7		1.119427	1.119874		1.160066
	120730012	Florida	Leon	70.0	70.0		61.5	61.5		59.0	59.0		58.3	58.3		1.138211	1.138211		1.186441
	120730013	Florida	Leon	71.0	72.0		62.2	63.1		59.5	60.3		58.8	59.6		1.141479	1.141046		1.193277
	120813002	Florida	Manatee	77.3	79.0		71.9	73.5		70.0	71.6		69.3	70.9		1.075104	1.07483		1.104286
	120814012	Florida	Manatee	76.3	77.0		69.4	70.0		67.5	68.1		66.7	67.4		1.099424	1.1		1.13037
	120814013	Florida	Manatee	72.7	73.0		65.9	66.2		64.3	64.6		63.5	63.8		1.103187	1.102719		1.130638
	120830003	Florida	Marion	71.7	72.0		63.4	63.7		60.8	61.0		59.1	59.3		1.130915	1.130298		1.179276
	120830004	Florida	Marion	73.0	73.0		65.2	65.2		63.0	63.0		60.6	60.6		1.119632	1.119632		1.15873
	120860027	Florida	Miami-Dade	71.3	74.0		69.4	72.1		69.2	71.8		68.9	71.6		1.027378	1.026352		1.030347
	120860029	Florida	Miami-Dade	67.7	69.0		66.0	67.2		65.4	66.7		65.2	66.5		1.025758	1.026786		1.035168
	120950008	Florida	Orange	79.3	81.0		73.6	75.2		70.4	71.9		69.5	71.0		1.077446	1.077128		1.12642
	120952002	Florida	Orange	79.3	80.0		74.6	75.3		71.6	72.2		71.0	71.6		1.063003	1.062417		1.107542
	120972002	Florida	Osceola	72.0	73.0		66.1	67.0		63.3	64.2		62.6	63.5		1.089259	1.089552		1.137441
	120990020	Florida	Palm Beach	65.0	65.0		61.5	61.5		59.7	59.7		59.6	59.6		1.056911	1.056911		1.088777
	121010005	Florida	Pasco	76.3	77.0		70.5	71.1		68.8	69.5		67.4	68.0		1.08227	1.082982		1.109012

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

				Transport Rule Values											RRFs			
	Monitor ID	State	County	Avg DV-03-07	Max DV-03-07		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base	Max DV-2014 base		Avg DV-2014 remedy	Max DV-2014 remedy		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base
	121012001	Florida	Pasco	73.3	75.0		67.7	69.2		65.8	67.3		64.9	66.4		1.082718	1.083815		1.113982
	121030004	Florida	Pinellas	72.3	73.0		68.4	69.0		66.7	67.3		65.9	66.5		1.057018	1.057971		1.083958
	121030018	Florida	Pinellas	69.7	71.0		66.3	67.5		64.8	66.0		64.1	65.3		1.051282	1.051852		1.075617
	121035002	Florida	Pinellas	72.7	74.0		68.9	70.2		67.2	68.4		66.5	67.7		1.055152	1.054131		1.081845
	121056005	Florida	Polk	73.3	75.0		66.7	68.3		64.9	66.4		63.9	65.4		1.098951	1.098097		1.12943
	121056006	Florida	Polk	74.7	75.0		68.0	68.3		66.0	66.3		64.9	65.2		1.098529	1.098097		1.131818
	121111002	Florida	St. Lucie	66.5	68.0		60.9	62.3		58.7	60.1		58.3	59.6		1.091954	1.091493		1.132879
	121130015	Florida	Santa Rosa	80.0	80.0		76.3	76.3		74.5	74.5		69.0	69.0		1.048493	1.048493		1.073826
	121151005	Florida	Sarasota	77.3	78.0		69.4	70.1		67.5	68.1		66.8	67.4		1.113833	1.112696		1.145185
	121151006	Florida	Sarasota	73.3	74.0		65.9	66.6		64.1	64.7		63.4	64.0		1.112291	1.111111		1.143526
	121152002	Florida	Sarasota	72.0	74.0		63.5	65.3		61.7	63.4		60.9	62.6		1.133858	1.133231		1.166937
	121171002	Florida	Seminole	76.0	77.0		70.4	71.4		66.8	67.7		66.2	67.0		1.079545	1.078431		1.137725
	121272001	Florida	Volusia	68.3	69.0		61.4	62.0		57.6	58.2		56.8	57.3		1.112378	1.112903		1.185764
	121275002	Florida	Volusia	68.3	69.0		60.8	61.4		57.0	57.6		56.4	57.0		1.123355	1.123779		1.198246
	121290001	Florida	Wakulla	71.3	74.0		64.1	66.5		62.0	64.3		61.3	63.6		1.112324	1.112782		1.15
	130210012	Georgia	Bibb	81.0	83.0		71.1	72.8		66.1	67.8		65.8	67.5		1.139241	1.14011		1.225416
	130210013	Georgia	Bibb	81.0	81.0		71.4	71.4		66.0	66.0		65.7	65.7		1.134454	1.134454		1.227273
	130510021	Georgia	Chatham	68.3	69.0		62.2	62.9		59.9	60.5		59.4	60.0		1.098071	1.096979		1.140234
	130550001	Georgia	Chattooga	75.0	76.0		64.3	65.2		60.8	61.6		60.6	61.4		1.166407	1.165644		1.233553
	130590002	Georgia	Clarke	80.7	83.0		68.7	70.6		64.5	66.4		64.3	66.2		1.174672	1.175637		1.251163
	130670003	Georgia	Cobb	82.7	87.0		73.8	77.6		69.9	73.5		69.7	73.4		1.120596	1.121134		1.183119
	130730001	Georgia	Columbia	73.0	73.0		64.5	64.5		61.7	61.7		61.4	61.4		1.131783	1.131783		1.183144
	130770002	Georgia	Coweta	82.0	85.0		74.3	77.0		69.7	72.2		68.7	71.2		1.103634	1.103896		1.176471
	130850001	Georgia	Dawson	76.3	79.0		66.1	68.5		62.4	64.6		62.2	64.4		1.154312	1.153285		1.222756
	130890002	Georgia	DeKalb	88.7	93.0		81.6	85.6		78.2	82.0		78.1	81.8		1.08701	1.086449		1.134271
	130893001	Georgia	DeKalb	87.5	88.0		80.7	81.2		77.7	78.1		77.5	77.9		1.084263	1.083744		1.126126
	130970004	Georgia	Douglas	87.3	90.0		77.8	80.2		73.2	75.4		73.0	75.2		1.122108	1.122195		1.192623
	131130001	Georgia	Fayette	85.7	89.0		78.2	81.2		74.9	77.8		74.7	77.6		1.095908	1.096059		1.144192
	131210055	Georgia	Fulton	91.7	94.0		84.4	86.5		80.9	82.9		80.7	82.7		1.086493	1.086705		1.133498
	131270006	Georgia	Glynn	67.0	68.0		61.7	62.6		59.6	60.5		57.7	58.5		1.0859	1.086262		1.124161
	131350002	Georgia	Gwinnett	88.7	90.0		79.1	80.3		75.3	76.4		75.1	76.2		1.121365	1.120797		1.177955
	131510002	Georgia	Henry	89.7	95.0		79.7	84.5		75.7	80.2		75.5	80.0		1.125471	1.12426		1.184941
	132130003	Georgia	Murray	78.0	79.0		68.9	69.8		65.6	66.5		64.9	65.7		1.132075	1.131805		1.189024
	132150008	Georgia	Muscogee	75.7	80.0		65.5	69.2		61.9	65.4		61.5	65.0		1.155725	1.156069		1.22294
	132151003	Georgia	Muscogee	70.7	73.0		61.4	63.4		58.0	59.9		57.7	59.5		1.151466	1.15142		1.218966
	132230003	Georgia	Paulding	80.3	83.0		69.2	71.5		65.1	67.2		64.9	67.1		1.160405	1.160839		1.233487
	132450091	Georgia	Richmond	80.3	81.0		70.8	71.4		67.8	68.4		67.4	68.0		1.134181	1.134454		1.184366
	132470001	Georgia	Rockdale	90.0	95.0		78.8	83.2		74.5	78.6		74.3	78.4		1.142132	1.141827		1.208054
	132611001	Georgia	Sumter	72.3	74.0		64.4	65.9		61.3	62.8		60.9	62.3		1.122671	1.122914		1.179445
	170010006	Illinois	Adams	70.0	70.0		64.8	64.8		63.4	63.4		62.6	62.6		1.080247	1.080247		1.104101
	170190004	Illinois	Champaign	68.3	70.0		62.3	63.8		60.9	62.4		60.6	62.1		1.096308	1.097179		1.121511
	170230001	Illinois	Clark	66.0	66.0		59.8	59.8		58.4	58.4		58.0	58.0		1.103679	1.103679		1.130137
	170310001	Illinois	Cook	77.3	82.0		75.9	80.5		74.8	79.4		74.7	79.2		1.018445	1.018634		1.033422
	170310032	Illinois	Cook	74.3	77.0		71.1	73.7		70.1	72.6		69.9	72.4		1.045007	1.044776		1.059914
	170310064	Illinois	Cook	71.3	77.0		68.2	73.7		67.2	72.6		67.0	72.4		1.045455	1.044776		1.061012
	170310072	Illinois	Cook	71.0	73.0		67.7	69.6		66.7	68.6		66.5	68.4		1.048744	1.048851		1.064468
	170310076	Illinois	Cook	77.0	79.0		75.8	77.8		75.0	77.0		74.8	76.8		1.015831	1.015424		1.026667
	170311003	Illinois	Cook	76.3	79.0		73.6	76.2		72.7	75.3		72.5	75.1		1.036685	1.036745		1.049519
	170311601	Illinois	Cook	76.7	80.0		74.8	78.0		73.6	76.7		73.5	76.6		1.025401	1.025641		1.04212
	170314002	Illinois	Cook	66.3	68.0		65.9	67.6		65.4	67.0		65.2	66.9		1.00607	1.005917		1.013761

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

				Transport Rule Values											RRFs			
	Monitor ID	State	County	Avg DV-03-07	Max DV-03-07		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base	Max DV-2014 base		Avg DV-2014 remedy	Max DV-2014 remedy		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base
	170314007	Illinois	Cook	71.7	74.0		69.2	71.4		68.3	70.5		68.2	70.4		1.036127	1.036415		1.04978
	170314201	Illinois	Cook	74.3	76.0		71.7	73.4		70.8	72.4		70.7	72.3		1.036262	1.035422		1.049435
	170317002	Illinois	Cook	77.7	79.0		74.7	76.0		73.7	74.9		73.4	74.6		1.040161	1.039474		1.054274
	170436001	Illinois	DuPage	69.0	70.0		67.4	68.3		66.5	67.5		66.4	67.4		1.023739	1.02489		1.037594
	170491001	Illinois	Effingham	70.0	72.0		63.8	65.6		62.3	64.1		62.1	63.9		1.097179	1.097561		1.123596
	170650002	Illinois	Hamilton	73.0	73.0		66.2	66.2		64.5	64.5		64.6	64.6		1.102719	1.102719		1.131783
	170831001	Illinois	Jersey	78.7	80.0		71.4	72.6		69.4	70.6		68.9	70.0		1.102241	1.101928		1.134006
	170890005	Illinois	Kane	74.3	77.0		69.9	72.4		68.5	71.0		68.3	70.8		1.062947	1.063536		1.084672
	170971002	Illinois	Lake	76.7	79.0		73.7	75.9		72.6	74.7		72.3	74.5		1.040706	1.040843		1.056474
	170971007	Illinois	Lake	78.0	79.0		75.0	75.9		73.8	74.7		73.5	74.5		1.04	1.040843		1.056911
	171110001	Illinois	McHenry	73.3	78.0		68.3	72.7		66.7	71.0		66.5	70.7		1.073206	1.072902		1.098951
	171132003	Illinois	McLean	73.0	74.0		65.7	66.6		63.8	64.7		63.5	64.4		1.111111	1.111111		1.144201
	171150013	Illinois	Macon	71.3	74.0		64.8	67.2		63.3	65.7		62.8	65.2		1.100309	1.10119		1.126382
	171170002	Illinois	Macoupin	73.0	74.0		64.4	65.3		62.3	63.1		61.7	62.5		1.13354	1.133231		1.17175
	171190008	Illinois	Madison	82.7	84.0		75.8	77.0		73.7	74.9		73.0	74.2		1.091029	1.090909		1.122117
	171191009	Illinois	Madison	83.0	84.0		76.5	77.4		74.4	75.3		73.8	74.7		1.084967	1.085271		1.115591
	171193007	Illinois	Madison	81.0	83.0		74.3	76.1		72.2	74.0		71.5	73.3		1.090175	1.09067		1.121884
	171430024	Illinois	Peoria	68.3	71.0		61.9	64.3		59.9	62.2		59.7	62.0		1.103393	1.104199		1.140234
	171431001	Illinois	Peoria	72.7	76.0		65.9	68.9		63.7	66.6		63.5	66.4		1.103187	1.103048		1.141287
	171570001	Illinois	Randolph	72.0	75.0		65.5	68.2		63.8	66.4		63.7	66.4		1.099237	1.099707		1.128527
	171613002	Illinois	Rock Island	65.3	68.0		60.8	63.3		59.5	61.9		58.4	60.8		1.074013	1.07425		1.097479
	171630010	Illinois	Saint Clair	81.7	82.0		76.5	76.8		74.9	75.2		74.3	74.6		1.067974	1.067708		1.090788
	171670010	Illinois	Sangamon	70.0	71.0		61.6	62.5		59.9	60.7		59.5	60.4		1.136364	1.136		1.168614
	171971011	Illinois	Will	71.7	72.0		67.5	67.8		66.0	66.3		65.9	66.1		1.062222	1.061947		1.086364
	172010009	Illinois	Winnebago	69.0	71.0		62.4	64.2		60.5	62.3		60.3	62.0		1.105769	1.105919		1.140496
	172012001	Illinois	Winnebago	68.3	70.0		61.8	63.3		59.9	61.4		59.7	61.1		1.105178	1.105845		1.140234
	180030002	Indiana	Allen	79.3	83.0		71.6	74.9		69.4	72.6		69.2	72.4		1.107542	1.108144		1.142651
	180030004	Indiana	Allen	74.3	76.0		67.1	68.6		65.0	66.5		64.8	66.3		1.107303	1.107872		1.143077
	180110001	Indiana	Boone	79.7	81.0		72.1	73.3		69.8	70.9		69.4	70.5		1.105409	1.105048		1.141834
	180150002	Indiana	Carroll	74.0	75.0		67.1	68.0		65.2	66.1		64.9	65.7		1.102832	1.102941		1.134969
	180190008	Indiana	Clark	80.3	83.0		74.4	76.9		72.4	74.8		71.6	74.0		1.079301	1.079324		1.109116
	180350010	Indiana	Delaware	76.3	78.0		68.3	69.8		65.9	67.3		65.5	67.0		1.11713	1.117479		1.157815
	180390007	Indiana	Elkhart	79.0	83.0		71.0	74.6		68.8	72.3		68.4	71.8		1.112676	1.112601		1.148256
	180431004	Indiana	Floyd	77.7	79.0		72.6	73.8		70.8	72.0		70.1	71.2		1.070248	1.070461		1.097458
	180550001	Indiana	Greene	78.3	80.0		71.0	72.5		69.3	70.8		68.8	70.2		1.102817	1.103448		1.12987
	180570005	Indiana	Hamilton	82.7	87.0		75.3	79.2		72.8	76.6		72.3	76.1		1.098274	1.098485		1.135989
	180590003	Indiana	Hancock	78.0	81.0		71.3	74.0		69.0	71.7		68.5	71.1		1.093969	1.094595		1.130435
	180630004	Indiana	Hendricks	75.3	76.0		68.8	69.5		66.8	67.4		66.4	67.0		1.094477	1.093525		1.127246
	180690002	Indiana	Huntington	75.0	76.0		67.6	68.5		65.5	66.4		65.4	66.2		1.109467	1.109489		1.145038
	180710001	Indiana	Jackson	74.7	76.0		66.5	67.6		64.7	65.8		64.2	65.3		1.123308	1.12426		1.15456
	180810002	Indiana	Johnson	76.7	78.0		69.3	70.5		67.2	68.3		66.6	67.8		1.106782	1.106383		1.141369
	180890022	Indiana	Lake	77.7	82.0		73.6	77.7		72.5	76.5		72.2	76.2		1.055707	1.055341		1.071724
	180890030	Indiana	Lake	81.0	85.0		76.9	80.7		75.9	79.6		75.5	79.3		1.053316	1.053284		1.067194
	180892008	Indiana	Lake	77.7	79.0		73.8	75.0		72.8	74.0		72.5	73.7		1.052846	1.053333		1.067308
	180910005	Indiana	LaPorte	77.0	78.0		71.5	72.4		70.0	70.9		69.7	70.6		1.076923	1.077348		1.1
	180910010	Indiana	LaPorte	78.5	79.0		72.6	73.0		70.9	71.4		70.6	71.1		1.081267	1.082192		1.107193
	180950010	Indiana	Madison	76.7	80.0		69.2	72.1		66.8	69.7		66.3	69.2		1.108382	1.10957		1.148204
	180970042	Indiana	Marion	72.7	76.0		68.0	71.1		66.3	69.3		65.6	68.5		1.069118	1.068917		1.096531
	180970050	Indiana	Marion	78.7	81.0		72.4	74.5		70.4	72.4		69.9	72.0		1.087017	1.087248		1.117898
	180970057	Indiana	Marion	75.0	77.0		69.7	71.5		67.9	69.7		67.4	69.2		1.07604	1.076923		1.104566

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

				Transport Rule Values											RRFs			
	Monitor ID	State	County	Avg DV-03-07	Max DV-03-07		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base	Max DV-2014 base		Avg DV-2014 remedy	Max DV-2014 remedy		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base
	180970073	Indiana	Marion	75.7	77.0		70.0	71.2		68.1	69.3		67.6	68.8		1.081429	1.081461		1.111601
	181090005	Indiana	Morgan	77.0	79.0		70.3	72.1		68.1	69.9		67.4	69.2		1.095306	1.0957		1.13069
	181230009	Indiana	Perry	81.0	81.0		75.5	75.5		73.1	73.1		73.0	73.0		1.072848	1.072848		1.108071
	181270024	Indiana	Porter	78.3	81.0		73.7	76.2		72.4	74.9		72.1	74.6		1.062415	1.062992		1.081492
	181270026	Indiana	Porter	75.3	77.0		69.9	71.5		68.5	70.0		68.1	69.6		1.077253	1.076923		1.09927
	181290003	Indiana	Posey	71.7	75.0		64.8	67.8		62.8	65.7		62.8	65.7		1.106481	1.106195		1.14172
	181410010	Indiana	St. Joseph	74.7	77.0		67.5	69.6		65.6	67.6		65.1	67.1		1.106667	1.106322		1.13872
	181410015	Indiana	St. Joseph	74.3	79.0		67.1	71.4		65.1	69.3		64.7	68.8		1.107303	1.106443		1.141321
	181411007	Indiana	St. Joseph	79.3	82.0		71.6	74.1		69.5	71.9		69.0	71.4		1.107542	1.106613		1.141007
	181450001	Indiana	Shelby	77.3	80.0		71.8	74.3		70.0	72.4		69.3	71.7		1.076602	1.076716		1.104286
	181630012	Indiana	Vanderburgh	77.3	80.0		70.3	72.8		68.1	70.5		68.3	70.7		1.099573	1.098901		1.135095
	181630013	Indiana	Vanderburgh	67.7	75.0		61.1	67.7		59.1	65.5		59.2	65.6		1.10802	1.107829		1.145516
	181670018	Indiana	Vigo	63.0	67.0		57.7	61.3		56.2	59.8		55.6	59.1		1.091854	1.092985		1.120996
	181670024	Indiana	Vigo	74.0	76.0		68.1	69.9		66.5	68.3		65.6	67.4		1.086637	1.087268		1.112782
	181730008	Indiana	Warrick	77.7	80.0		71.8	73.9		69.9	72.0		70.2	72.3		1.082173	1.082544		1.111588
	181730009	Indiana	Warrick	72.7	75.0		66.0	68.1		64.1	66.1		64.0	66.0		1.101515	1.101322		1.134165
	181730011	Indiana	Warrick	76.7	77.0		71.0	71.3		69.1	69.3		69.4	69.7		1.080282	1.079944		1.109986
	190450021	Iowa	Clinton	71.3	73.0		66.0	67.5		64.5	66.0		63.7	65.2		1.080303	1.081481		1.105426
	190851101	Iowa	Harrison	74.7	75.0		69.5	69.8		68.2	68.4		66.4	66.7		1.07482	1.074499		1.095308
	191130028	Iowa	Linn	67.7	71.0		63.0	66.1		61.6	64.6		61.0	63.9		1.074603	1.07413		1.099026
	191130033	Iowa	Linn	68.3	70.0		63.7	65.3		62.2	63.8		61.1	62.6		1.072214	1.071975		1.098071
	191530058	Iowa	Polk	63.0	66.0		58.2	61.0		56.6	59.3		56.1	58.7		1.082474	1.081967		1.113074
	191630014	Iowa	Scott	70.3	74.0		64.8	68.2		63.2	66.5		62.3	65.6		1.084877	1.085044		1.112342
	191632011	Iowa	Scott	72.0	72.0		66.6	66.6		65.0	65.0		63.9	63.9		1.081081	1.081081		1.107692
	191690011	Iowa	Story	61.0	66.0		56.1	60.7		54.7	59.1		53.8	58.2		1.087344	1.087315		1.115174
	200450004	Kansas	Douglas	73.0	73.0		66.6	66.6		65.1	65.1		63.2	63.2		1.096096	1.096096		1.121352
	200910010	Kansas	Johnson	75.3	76.0		70.4	71.0		68.9	69.6		66.7	67.4		1.069602	1.070423		1.092888
	201030003	Kansas	Leavenworth	75.0	77.0		69.5	71.4		68.0	69.8		66.5	68.3		1.079137	1.078431		1.102941
	201070002	Kansas	Linn	73.3	74.0		68.3	69.0		67.1	67.7		63.0	63.6		1.073206	1.072464		1.092399
	201730001	Kansas	Sedgwick	64.3	66.0		58.6	60.2		56.9	58.4		56.1	57.6		1.09727	1.096346		1.130053
	201730010	Kansas	Sedgwick	71.3	74.0		65.5	68.0		63.6	66.1		62.8	65.2		1.08855	1.088235		1.121069
	201910002	Kansas	Sumner	71.7	76.0		64.9	68.8		62.9	66.7		62.3	66.0		1.104777	1.104651		1.139905
	202090021	Kansas	Wyandotte	75.3	77.0		71.1	72.7		69.8	71.4		68.1	69.6		1.059072	1.059147		1.078797
	210130002	Kentucky	Bell	71.7	74.0		61.9	63.9		59.2	61.1		59.0	60.9		1.15832	1.158059		1.211149
	210150003	Kentucky	Boone	75.7	77.0		67.8	68.9		66.0	67.1		65.2	66.3		1.116519	1.117562		1.14697
	210190017	Kentucky	Boyd	77.3	79.0		69.5	71.0		68.0	69.4		67.8	69.2		1.11223	1.112676		1.136765
	210290006	Kentucky	Bullitt	74.0	76.0		68.8	70.7		67.0	68.8		66.3	68.1		1.075581	1.074965		1.104478
	210370003	Kentucky	Campbell	75.0	83.0		70.2	77.7		68.7	76.1		68.0	75.3		1.068376	1.068211		1.091703
	210430500	Kentucky	Carter	71.0	72.0		62.8	63.7		61.2	62.0		61.0	61.8		1.130573	1.130298		1.160131
	210470006	Kentucky	Christian	78.0	81.0		67.9	70.5		65.6	68.1		65.3	67.8		1.148748	1.148936		1.189024
	210590005	Kentucky	Daviess	75.7	81.0		70.3	75.3		68.3	73.1		68.3	73.1		1.076814	1.075697		1.108346
	210610501	Kentucky	Edmonson	73.7	76.0		65.7	67.7		63.5	65.5		63.4	65.4		1.121766	1.1226		1.16063
	210670001	Kentucky	Fayette	62.7	65.0		56.8	58.8		54.9	56.9		54.6	56.6		1.103873	1.105442		1.142077
	210670012	Kentucky	Fayette	70.3	73.0		63.6	66.1		61.5	63.9		61.2	63.6		1.105346	1.104387		1.143089
	210890007	Kentucky	Greenup	76.7	78.0		69.1	70.3		67.6	68.7		67.4	68.6		1.109986	1.109531		1.134615
	210910012	Kentucky	Hancock	74.0	76.0		68.9	70.7		66.8	68.6		66.8	68.6		1.07402	1.074965		1.107784
	210930006	Kentucky	Hardin	74.7	78.0		67.6	70.6		65.6	68.5		65.2	68.1		1.10503	1.104816		1.13872
	211010014	Kentucky	Henderson	75.3	78.0		69.2	71.7		67.2	69.7		67.4	69.8		1.08815	1.087866		1.120536
	211110027	Kentucky	Jefferson	75.3	79.0		70.5	73.9		68.5	71.9		67.9	71.2		1.068085	1.069012		1.09927
	211110051	Kentucky	Jefferson	78.3	82.0		73.3	76.7		71.7	75.1		70.8	74.1		1.068213	1.0691		1.09205

Ozone Design Values
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				Transport Rule Values											RRFs			
	Monitor ID	State	County	Avg DV-03-07	Max DV-03-07		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base	Max DV-2014 base		Avg DV-2014 remedy	Max DV-2014 remedy		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base
	211111021	Kentucky	Jefferson	71.0	73.0		66.9	68.8		65.3	67.2		64.7	66.5		1.061286	1.061047		1.087289
	211130001	Kentucky	Jessamine	73.3	77.0		66.6	70.0		64.6	67.8		64.3	67.5		1.100601	1.1		1.134675
	211170007	Kentucky	Kenton	78.7	81.0		73.1	75.3		71.5	73.6		70.8	72.9		1.076607	1.075697		1.100699
	211390003	Kentucky	Livingston	73.7	75.0		68.2	69.4		66.3	67.5		66.3	67.5		1.080645	1.080692		1.111614
	211451024	Kentucky	McCracken	73.3	76.0		68.2	70.7		66.5	69.0		66.3	68.7		1.07478	1.074965		1.102256
	211490001	Kentucky	McLean	73.0	73.0		67.1	67.1		65.0	65.0		65.2	65.2		1.087928	1.087928		1.123077
	211850004	Kentucky	Oldham	83.0	85.0		75.3	77.1		72.8	74.5		72.1	73.9		1.102258	1.102464		1.14011
	211950002	Kentucky	Pike	66.7	70.0		58.6	61.5		56.7	59.5		56.7	59.5		1.138225	1.138211		1.176367
	211990003	Kentucky	Pulaski	70.3	72.0		65.1	66.7		60.8	62.3		60.3	61.8		1.079877	1.07946		1.15625
	212130004	Kentucky	Simpson	75.7	78.0		65.9	67.9		63.3	65.3		63.2	65.1		1.14871	1.148748		1.195893
	212210013	Kentucky	Trigg	70.0	70.0		63.8	63.8		61.8	61.8		61.8	61.8		1.097179	1.097179		1.132686
	212270008	Kentucky	Warren	72.0	73.0		63.6	64.5		61.6	62.5		61.4	62.3		1.132075	1.131783		1.168831
	220050004	Louisiana	Ascension	82.0	84.0		76.9	78.8		75.3	77.2		75.0	76.9		1.06632	1.06599		1.088977
	220110002	Louisiana	Beauregard	75.0	75.0		71.3	71.3		70.4	70.4		69.7	69.7		1.051893	1.051893		1.065341
	220150008	Louisiana	Bossier	78.0	79.0		69.6	70.5		67.2	68.0		66.9	67.8		1.12069	1.120567		1.160714
	220170001	Louisiana	Caddo	79.0	80.0		70.7	71.6		68.3	69.2		67.9	68.7		1.117397	1.117318		1.156662
	220190002	Louisiana	Calcasieu	82.0	83.0		78.0	78.9		76.8	77.8		76.2	77.1		1.051282	1.051965		1.067708
	220190008	Louisiana	Calcasieu	70.0	71.0		66.8	67.7		65.9	66.9		65.5	66.4		1.047904	1.048744		1.062215
	220190009	Louisiana	Calcasieu	78.7	80.0		73.3	74.5		71.9	73.1		71.2	72.4		1.07367	1.073826		1.094576
	220330003	Louisiana	East Baton Rouge	92.0	96.0		87.8	91.6		86.4	90.2		86.0	89.7		1.047836	1.048035		1.064815
	220330009	Louisiana	East Baton Rouge	80.3	81.0		76.5	77.2		75.3	75.9		74.9	75.6		1.049673	1.049223		1.066401
	220330013	Louisiana	East Baton Rouge	81.3	82.0		76.4	77.1		75.0	75.7		74.8	75.5		1.064136	1.063554		1.084
	220331001	Louisiana	East Baton Rouge	86.0	87.0		82.9	83.8		81.7	82.7		81.5	82.5		1.037394	1.038186		1.052632
	220430001	Louisiana	Grant	73.0	73.0		68.7	68.7		66.9	66.9		63.8	63.8		1.062591	1.062591		1.091181
	220470007	Louisiana	Iberville	84.0	86.0		79.1	81.0		77.6	79.4		77.1	78.9		1.061947	1.061728		1.082474
	220470009	Louisiana	Iberville	80.0	81.0		75.5	76.5		74.2	75.1		73.7	74.6		1.059603	1.058824		1.078167
	220470012	Louisiana	Iberville	85.0	86.0		80.3	81.3		78.9	79.8		78.5	79.5		1.058531	1.057811		1.077313
	220511001	Louisiana	Jefferson	83.0	84.0		78.5	79.4		76.9	77.9		76.5	77.4		1.057325	1.057935		1.079324
	220550005	Louisiana	Lafayette	82.0	82.0		76.0	76.0		74.0	74.0		73.3	73.3		1.078947	1.078947		1.108108
	220550007	Louisiana	Lafayette	66.0	66.0		61.1	61.1		59.6	59.6		59.0	59.0		1.080196	1.080196		1.107383
	220570004	Louisiana	Lafourche	79.3	80.0		74.4	75.1		73.0	73.6		72.5	73.2		1.06586	1.065246		1.086301
	220630002	Louisiana	Livingston	78.3	80.0		72.9	74.5		71.3	72.8		71.1	72.6		1.074074	1.073826		1.098177
	220710012	Louisiana	Orleans	70.0	70.0		66.9	66.9		65.7	65.7		65.3	65.3		1.046338	1.046338		1.065449
	220730004	Louisiana	Ouachita	75.3	77.0		68.8	70.3		66.8	68.3		66.1	67.6		1.094477	1.095306		1.127246
	220770001	Louisiana	Pointe Coupee	83.7	86.0		78.8	81.0		77.4	79.5		77.2	79.3		1.062183	1.061728		1.081395
	220870002	Louisiana	St. Bernard	78.0	78.0		74.7	74.7		73.6	73.6		73.3	73.3		1.044177	1.044177		1.059783
	220890003	Louisiana	St. Charles	77.3	78.0		73.1	73.8		71.8	72.4		71.4	72.0		1.057456	1.056911		1.076602
	220930002	Louisiana	St. James	76.3	77.0		71.9	72.6		70.7	71.3		70.3	71.0		1.061196	1.060606		1.079208
	220950002	Louisiana	St. John the Baptist	79.0	80.0		74.8	75.7		73.7	74.6		73.3	74.3		1.05615	1.056803		1.071913
	221010003	Louisiana	St. Mary	76.0	76.0		70.3	70.3		68.6	68.6		68.1	68.1		1.081081	1.081081		1.107872
	221210001	Louisiana	West Baton Rouge	84.3	85.0		80.3	81.0		79.0	79.7		78.7	79.3		1.049813	1.049383		1.067089
	230050027	Maine	Cumberland	60.0	61.0		52.5	53.3		50.8	51.6		50.8	51.6		1.142857	1.144465		1.181102
	230052003	Maine	Cumberland	72.0	75.0		63.0	65.6		60.9	63.5		60.9	63.5		1.142857	1.143293		1.182266
	230090102	Maine	Hancock	82.0	83.0		72.3	73.2		70.4	71.2		70.4	71.2		1.134163	1.13388		1.164773
	230090103	Maine	Hancock	73.0	74.0		64.4	65.3		62.6	63.4		62.6	63.4		1.13354	1.133231		1.166134
	230090301	Maine	Hancock	68.7	70.0		60.4	61.6		58.7	59.8		58.7	59.8		1.137417	1.136364		1.170358
	230112005	Maine	Kennebec	69.7	71.0		60.9	62.1		59.1	60.2		59.1	60.2		1.144499	1.143317		1.179357
	230130004	Maine	Knox	75.3	77.0		65.8	67.3		63.8	65.3		63.8	65.3		1.144377	1.144131		1.180251
	230173001	Maine	Oxford	61.0	63.0		54.3	56.1		52.6	54.4		52.7	54.4		1.123389	1.122995		1.159696
	230194008	Maine	Penobscot	67.0	68.0		59.2	60.0		57.5	58.4		57.5	58.4		1.131757	1.133333		1.165217

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

				Transport Rule Values											RRFs			
	Monitor ID	State	County	Avg DV-03-07	Max DV-03-07		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base	Max DV-2014 base		Avg DV-2014 remedy	Max DV-2014 remedy		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base
	230230004	Maine	Sagadahoc	68.5	70.0		59.8	61.1		57.9	59.2		57.9	59.2		1.145485	1.145663		1.183074
	230310038	Maine	York	73.7	75.0		64.2	65.3		62.0	63.1		62.0	63.1		1.147975	1.148545		1.18871
	230312002	Maine	York	74.0	74.0		65.3	65.3		63.2	63.2		63.2	63.2		1.133231	1.133231		1.170886
	230313002	Maine	York	74.0	77.0		65.2	67.8		63.1	65.6		63.1	65.6		1.134969	1.135693		1.172742
	240030014	Maryland	Anne Arundel	89.7	90.0		79.7	79.9		77.1	77.4		77.0	77.2		1.125471	1.126408		1.163424
	240051007	Maryland	Baltimore	77.3	78.0		71.2	71.8		69.6	70.3		69.5	70.2		1.085674	1.086351		1.110632
	240053001	Maryland	Baltimore	85.3	87.0		78.5	80.1		76.9	78.4		76.8	78.3		1.086624	1.086142		1.109233
	240090011	Maryland	Calvert	81.0	81.0		69.8	69.8		67.7	67.7		67.6	67.6		1.160458	1.160458		1.196455
	240130001	Maryland	Carroll	83.3	86.0		73.0	75.4		70.5	72.8		70.4	72.7		1.141096	1.140584		1.18156
	240150003	Maryland	Cecil	90.7	93.0		79.1	81.1		76.9	78.9		76.8	78.8		1.14665	1.146732		1.179454
	240170010	Maryland	Charles	86.0	88.0		73.8	75.5		71.2	72.9		71.1	72.8		1.165312	1.165563		1.207865
	240210037	Maryland	Frederick	80.3	83.0		70.4	72.7		67.9	70.2		67.9	70.2		1.140625	1.141678		1.182622
	240230002	Maryland	Garrett	75.5	76.0		68.4	68.8		66.9	67.3		66.1	66.5		1.103801	1.104651		1.12855
	240251001	Maryland	Harford	92.7	94.0		83.5	84.7		81.6	82.8		81.5	82.7		1.11018	1.109799		1.136029
	240259001	Maryland	Harford	88.3	91.0		78.3	80.7		76.5	78.8		76.4	78.7		1.127714	1.127633		1.154248
	240290002	Maryland	Kent	82.0	83.0		71.6	72.5		69.7	70.6		69.6	70.4		1.145251	1.144828		1.176471
	240313001	Maryland	Montgomery	83.0	86.0		76.4	79.1		74.5	77.1		74.4	77.1		1.086387	1.087231		1.114094
	240330030	Maryland	Prince George's	85.0	85.0		77.3	77.3		75.1	75.1		75.0	75.0		1.099612	1.099612		1.131824
	240338003	Maryland	Prince George's	91.0	91.0		81.2	81.2		78.7	78.7		78.5	78.5		1.12069	1.12069		1.15629
	240430009	Maryland	Washington	78.3	79.0		68.4	69.0		66.1	66.7		66.0	66.6		1.144737	1.144928		1.184569
	250010002	Massachusetts	Barnstable	84.7	86.0		75.1	76.2		73.1	74.2		73.1	74.2		1.12783	1.128609		1.158687
	250034002	Massachusetts	Berkshire	79.7	81.0		70.8	72.0		68.7	69.8		68.6	69.7		1.125706	1.125		1.160116
	250051002	Massachusetts	Bristol	82.7	86.0		73.6	76.5		71.7	74.5		71.6	74.5		1.123641	1.124183		1.153417
	250070001	Massachusetts	Dukes	83.0	84.0		74.8	75.7		72.9	73.8		72.9	73.8		1.109626	1.109643		1.138546
	250092006	Massachusetts	Essex	83.3	84.0		76.7	77.3		74.8	75.5		74.9	75.5		1.08605	1.086675		1.113636
	250094004	Massachusetts	Essex	77.7	79.0		69.0	70.2		66.8	68.0		66.9	68.0		1.126087	1.125356		1.163174
	250095005	Massachusetts	Essex	77.5	80.0		68.3	70.5		66.1	68.2		66.1	68.2		1.1347	1.134752		1.172466
	250130008	Massachusetts	Hampden	87.3	92.0		76.9	81.0		74.4	78.4		74.3	78.3		1.135241	1.135802		1.173387
	250150103	Massachusetts	Hampshire	71.7	77.0		62.4	67.0		60.2	64.7		60.2	64.7		1.149038	1.149254		1.19103
	250154002	Massachusetts	Hampshire	85.0	87.0		74.6	76.4		72.2	73.9		72.2	73.9		1.13941	1.138743		1.177285
	250170009	Massachusetts	Middlesex	79.0	79.0		69.4	69.4		67.0	67.0		67.0	67.0		1.138329	1.138329		1.179104
	250171102	Massachusetts	Middlesex	77.3	81.0		67.8	71.1		65.6	68.7		65.5	68.6		1.140118	1.139241		1.178354
	250213003	Massachusetts	Norfolk	84.7	86.0		76.5	77.7		74.2	75.4		74.2	75.3		1.10719	1.106821		1.141509
	250250041	Massachusetts	Suffolk	80.3	81.0		72.8	73.5		70.8	71.4		70.8	71.4		1.103022	1.102041		1.134181
	250250042	Massachusetts	Suffolk	67.3	68.0		61.7	62.3		60.1	60.7		60.1	60.7		1.090762	1.091493		1.1198
	250270015	Massachusetts	Worcester	80.0	83.0		69.7	72.3		67.4	69.9		67.3	69.9		1.147776	1.147994		1.186944
	260050003	Michigan	Allegan	90.0	93.0		82.0	84.7		79.9	82.5		79.4	82.1		1.097561	1.097993		1.126408
	260190003	Michigan	Benzie	81.7	83.0		74.7	75.9		72.7	73.9		72.3	73.5		1.093708	1.093544		1.123796
	260210014	Michigan	Berrien	82.3	84.0		75.5	77.0		73.6	75.1		73.2	74.7		1.090066	1.090909		1.118207
	260270003	Michigan	Cass	80.7	84.0		72.4	75.4		70.3	73.2		69.7	72.5		1.114641	1.114058		1.147937
	260370001	Michigan	Clinton	75.7	78.0		67.0	69.1		64.8	66.7		64.5	66.4		1.129851	1.128799		1.16821
	260490021	Michigan	Genesee	77.3	80.0		69.7	72.2		67.6	70.0		67.3	69.7		1.109039	1.108033		1.143491
	260492001	Michigan	Genesee	79.3	82.0		71.9	74.4		69.9	72.3		69.6	72.0		1.102921	1.102151		1.134478
	260630007	Michigan	Huron	75.7	78.0		69.3	71.4		67.6	69.7		67.4	69.4		1.092352	1.092437		1.119822
	260650012	Michigan	Ingham	76.0	78.0		67.5	69.2		65.2	66.9		64.9	66.6		1.125926	1.127168		1.165644
	260770008	Michigan	Kalamazoo	75.3	78.0		67.8	70.3		65.8	68.1		65.4	67.7		1.110619	1.109531		1.144377
	260810020	Michigan	Kent	79.3	83.0		71.3	74.7		69.1	72.3		68.6	71.9		1.112202	1.111111		1.147612
	260810022	Michigan	Kent	81.0	83.0		72.2	74.0		69.9	71.6		69.4	71.1		1.121884	1.121622		1.158798
	260890001	Michigan	Leelanau	75.7	77.0		69.7	70.9		68.0	69.1		67.6	68.7		1.086083	1.086037		1.113235
	260910007	Michigan	Lenawee	78.7	81.0		71.4	73.4		69.7	71.8		69.2	71.2		1.102241	1.103542		1.129125

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	Monitor ID	State	County	Avg DV-03-07	Max DV-03-07		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base	Max DV-2014 base		Avg DV-2014 remedy	Max DV-2014 remedy		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base
	260990009	Michigan	Macomb	86.0	90.0		80.1	83.8		78.6	82.3		78.3	82.0		1.073658	1.073986		1.094148
	260991003	Michigan	Macomb	84.0	87.0		79.7	82.5		78.3	81.1		78.2	81.0		1.053952	1.054545		1.072797
	261050007	Michigan	Mason	79.7	81.0		72.4	73.6		70.5	71.6		69.9	71.0		1.100829	1.100543		1.130496
	261130001	Michigan	Missaukee	73.7	75.0		66.6	67.8		64.9	66.0		64.3	65.5		1.106607	1.106195		1.135593
	261210039	Michigan	Muskegon	85.0	88.0		77.5	80.2		75.5	78.2		75.1	77.7		1.096774	1.097257		1.125828
	261250001	Michigan	Oakland	78.0	81.0		73.7	76.6		72.6	75.4		72.3	75.1		1.058345	1.057441		1.07438
	261390005	Michigan	Ottawa	81.7	85.0		73.8	76.8		71.7	74.6		71.2	74.1		1.107046	1.106771		1.13947
	261470005	Michigan	St. Clair	82.3	85.0		75.0	77.4		73.0	75.4		72.7	75.1		1.097333	1.098191		1.127397
	261530001	Michigan	Schoolcraft	79.3	82.0		72.0	74.4		70.1	72.4		69.8	72.2		1.101389	1.102151		1.131241
	261610008	Michigan	Washtenaw	78.3	81.0		72.5	75.0		71.1	73.6		70.8	73.2		1.08	1.08		1.101266
	261630001	Michigan	Wayne	73.0	75.0		68.2	70.0		66.9	68.7		66.6	68.4		1.070381	1.071429		1.091181
	261630016	Michigan	Wayne	73.5	76.0		68.0	70.3		66.6	68.8		66.3	68.6		1.080882	1.081081		1.103604
	261630019	Michigan	Wayne	82.0	83.0		77.1	78.0		75.7	76.6		75.4	76.3		1.063554	1.064103		1.083223
	270031002	Minnesota	Anoka	67.7	69.0		66.9	68.2		66.4	67.7		65.7	67.0		1.011958	1.01173		1.019578
	280330002	Mississippi	DeSoto	82.7	85.0		73.5	75.6		70.8	72.8		70.5	72.4		1.12517	1.124339		1.168079
	280450001	Mississippi	Hancock	79.0	79.0		72.2	72.2		70.2	70.2		68.9	68.9		1.094183	1.094183		1.125356
	280470008	Mississippi	Harrison	83.0	83.0		76.9	76.9		75.0	75.0		71.5	71.5		1.079324	1.079324		1.106667
	280470009	Mississippi	Harrison	77.0	77.0		71.8	71.8		70.4	70.4		68.1	68.1		1.072423	1.072423		1.09375
	280490010	Mississippi	Hinds	71.3	73.0		59.4	60.8		56.6	57.9		56.3	57.6		1.200337	1.200658		1.259717
	280590006	Mississippi	Jackson	80.3	81.0		74.5	75.2		72.8	73.4		69.9	70.5		1.077852	1.077128		1.103022
	280590007	Mississippi	Jackson	74.0	74.0		68.8	68.8		67.3	67.3		63.5	63.5		1.075581	1.075581		1.099554
	280750003	Mississippi	Lauderdale	74.3	76.0		65.2	66.6		62.3	63.7		62.1	63.5		1.139571	1.141141		1.192616
	280810005	Mississippi	Lee	73.7	75.0		64.2	65.3		61.3	62.4		61.2	62.2		1.147975	1.148545		1.202284
	290370003	Missouri	Cass	74.7	77.0		69.2	71.3		67.9	70.0		64.8	66.8		1.07948	1.079944		1.100147
	290390001	Missouri	Cedar	75.7	76.0		70.0	70.3		68.3	68.6		66.1	66.3		1.081429	1.081081		1.108346
	290470003	Missouri	Clay	79.0	81.0		72.2	74.0		70.4	72.2		68.1	69.8		1.094183	1.094595		1.122159
	290470005	Missouri	Clay	84.3	87.0		78.2	80.7		76.5	78.9		74.3	76.7		1.078005	1.078067		1.101961
	290470006	Missouri	Clay	83.0	87.0		76.8	80.5		75.0	78.6		73.0	76.5		1.080729	1.080745		1.106667
	290490001	Missouri	Clinton	83.0	85.0		76.4	78.2		74.5	76.3		72.4	74.1		1.086387	1.086957		1.114094
	290770036	Missouri	Greene	73.0	77.0		66.2	69.8		64.6	68.1		63.5	67.0		1.102719	1.103152		1.130031
	290990012	Missouri	Jefferson	82.3	86.0		77.5	80.9		75.6	79.1		75.3	78.7		1.061935	1.063041		1.088624
	291130003	Missouri	Lincoln	87.0	87.0		78.8	78.8		76.6	76.6		76.2	76.2		1.104061	1.104061		1.13577
	291370001	Missouri	Monroe	71.7	75.0		66.0	69.0		64.5	67.4		63.6	66.6		1.086364	1.086957		1.111628
	291570001	Missouri	Perry	77.5	80.0		70.3	72.5		68.4	70.6		68.3	70.5		1.102418	1.103448		1.133041
	291650023	Missouri	Platte	77.0	77.0		71.8	71.8		70.3	70.3		68.6	68.6		1.072423	1.072423		1.095306
	291831002	Missouri	Saint Charles	86.3	89.0		79.9	82.4		77.9	80.3		77.2	79.6		1.0801	1.080097		1.107831
	291831004	Missouri	Saint Charles	87.0	89.0		79.9	81.8		77.7	79.5		77.3	79.1		1.088861	1.08802		1.119691
	291860005	Missouri	Sainte Genevieve	79.7	83.0		72.5	75.5		70.5	73.4		70.0	72.9		1.09931	1.099338		1.130496
	291890004	Missouri	Saint Louis	82.3	86.0		78.5	82.1		77.0	80.4		76.6	80.1		1.048408	1.047503		1.068831
	291890005	Missouri	Saint Louis	83.0	83.0		77.0	77.0		74.9	74.9		74.5	74.5		1.077922	1.077922		1.108144
	291890006	Missouri	Saint Louis	78.0	78.0		73.3	73.3		71.6	71.6		71.2	71.2		1.06412	1.06412		1.089385
	291890014	Missouri	Saint Louis	88.0	88.0		83.0	83.0		81.1	81.1		80.7	80.7		1.060241	1.060241		1.08508
	295100085	Missouri	St. Louis City	84.0	84.0		80.3	80.3		78.8	78.8		78.2	78.2		1.046077	1.046077		1.06599
	295100086	Missouri	St. Louis City	83.0	86.0		79.4	82.2		77.8	80.6		77.2	80.0		1.04534	1.046229		1.066838
	310550028	Nebraska	Douglas	68.7	70.0		64.5	65.7		63.6	64.8		62.5	63.6		1.065116	1.065449		1.080189
	310550032	Nebraska	Douglas	64.7	66.0		60.5	61.7		59.4	60.6		58.4	59.6		1.069421	1.069692		1.089226
	310550035	Nebraska	Douglas	66.3	68.0		62.4	64.0		61.3	62.9		60.2	61.7		1.0625	1.0625		1.081566
	311090016	Nebraska	Lancaster	56.0	57.0		51.6	52.5		50.5	51.4		49.8	50.7		1.085271	1.085714		1.108911
	330012004	New Hampshire	Belknap	71.3	73.0		63.3	64.8		61.1	62.5		61.1	62.5		1.126382	1.126543		1.166939
	330050007	New Hampshire	Cheshire	70.7	71.0		62.2	62.5		60.2	60.4		60.1	60.4		1.136656	1.136		1.174419

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	330074001	New Hampshire	Coos	77.0	77.0		69.1	69.1		67.1	67.1		67.1	67.1		1.114327	1.114327		1.147541
	330074002	New Hampshire	Coos	65.0	67.0		58.3	60.1		56.7	58.4		56.7	58.4		1.114923	1.114809		1.146384
	330090010	New Hampshire	Grafton	67.0	67.0		59.0	59.0		57.0	57.0		57.0	57.0		1.135593	1.135593		1.175439
	330110020	New Hampshire	Hillsborough	70.3	71.0		61.2	61.8		59.0	59.6		59.0	59.6		1.148693	1.148867		1.191525
	330111011	New Hampshire	Hillsborough	78.7	80.0		68.6	69.7		66.1	67.2		66.1	67.2		1.14723	1.147776		1.19062
	330115001	New Hampshire	Hillsborough	78.3	80.0		68.9	70.4		66.6	68.1		66.6	68.0		1.13643	1.136364		1.175676
	330131007	New Hampshire	Merrimack	71.7	72.0		62.4	62.6		60.3	60.5		60.2	60.5		1.149038	1.15016		1.189055
	330150014	New Hampshire	Rockingham	74.7	75.0		65.8	66.0		63.7	63.9		63.7	63.9		1.135258	1.136364		1.172684
	330150016	New Hampshire	Rockingham	75.0	79.0		66.0	69.6		63.9	67.3		63.9	67.3		1.136364	1.135057		1.173709
	330190003	New Hampshire	Sullivan	70.0	72.0		61.9	63.7		59.9	61.7		59.9	61.6		1.130856	1.130298		1.168614
	340010005	New Jersey	Atlantic	79.3	82.0		70.7	73.1		68.7	71.0		68.6	71.0		1.121641	1.121751		1.154294
	340030005	New Jersey	Bergen	86.0	86.0		82.2	82.2		80.8	80.8		80.7	80.7		1.046229	1.046229		1.064356
	340070003	New Jersey	Camden	85.7	88.0		79.6	81.8		78.2	80.3		78.2	80.3		1.076633	1.075795		1.095908
	340071001	New Jersey	Camden	89.3	91.0		80.9	82.4		78.7	80.1		78.6	80.1		1.103832	1.104369		1.134689
	340110007	New Jersey	Cumberland	83.3	84.0		73.5	74.1		71.4	72.0		71.3	71.9		1.133333	1.133603		1.166667
	340150002	New Jersey	Gloucester	87.0	88.0		79.5	80.4		77.7	78.6		77.6	78.5		1.09434	1.094527		1.119691
	340170006	New Jersey	Hudson	85.7	89.0		80.1	83.2		78.6	81.7		78.5	81.5		1.069913	1.069712		1.090331
	340190001	New Jersey	Hunterdon	89.0	90.0		79.3	80.2		76.6	77.4		76.5	77.4		1.12232	1.122195		1.16188
	340210005	New Jersey	Mercer	88.0	91.0		81.4	84.1		79.3	82.0		79.3	82.0		1.081081	1.082045		1.10971
	340230011	New Jersey	Middlesex	88.3	91.0		80.2	82.6		77.8	80.2		77.8	80.2		1.100998	1.101695		1.134961
	340250005	New Jersey	Monmouth	87.3	89.0		79.5	81.0		77.5	79.0		77.4	78.9		1.098113	1.098765		1.126452
	340273001	New Jersey	Morris	83.3	86.0		75.0	77.5		72.7	75.0		72.6	75.0		1.110667	1.109677		1.145805
	340290006	New Jersey	Ocean	93.0	94.0		83.3	84.2		80.8	81.7		80.7	81.6		1.116447	1.11639		1.15099
	340315001	New Jersey	Passaic	81.0	83.0		75.0	76.9		73.2	75.1		73.2	75.0		1.08	1.079324		1.106557
	350130008	New Mexico	Dona Ana	70.7	72.0		66.9	68.1		66.5	67.8		66.5	67.7		1.056801	1.057269		1.063158
	350130017	New Mexico	Dona Ana	71.3	72.0		67.3	67.9		66.7	67.3		66.7	67.3		1.059435	1.060383		1.068966
	350130021	New Mexico	Dona Ana	75.3	77.0		71.0	72.7		70.4	72.0		70.4	72.0		1.060563	1.059147		1.069602
	350130022	New Mexico	Dona Ana	72.7	74.0		68.5	69.8		67.9	69.1		67.8	69.0		1.061314	1.060172		1.070692
	350450009	New Mexico	San Juan	69.7	72.0		66.4	68.6		65.9	68.1		65.9	68.1		1.049699	1.049563		1.057663
	350451005	New Mexico	San Juan	71.3	72.0		68.1	68.8		67.6	68.3		67.6	68.3		1.04699	1.046512		1.054734
	360010012	New York	Albany	73.7	76.0		65.9	67.9		63.9	65.9		63.9	65.9		1.118361	1.119293		1.153365
	360050110	New York	Bronx	74.0	76.0		68.9	70.8		67.6	69.5		67.5	69.3		1.07402	1.073446		1.094675
	360050133	New York	Bronx	74.7	75.0		72.0	72.3		71.0	71.2		70.8	71.1		1.0375	1.037344		1.052113
	360130006	New York	Chautauqua	86.7	89.0		79.3	81.4		77.4	79.5		77.2	79.2		1.093317	1.093366		1.120155
	360130011	New York	Chautauqua	77.3	79.0		70.5	72.1		68.8	70.3		68.5	70.0		1.096454	1.0957		1.123547
	360150003	New York	Chemung	68.7	70.0		61.2	62.4		59.6	60.7		59.4	60.5		1.122549	1.121795		1.152685
	360270007	New York	Dutchess	75.7	79.0		67.3	70.2		65.4	68.2		65.3	68.2		1.124814	1.125356		1.157492
	360290002	New York	Erie	85.0	86.0		77.5	78.4		75.6	76.5		75.4	76.2		1.096774	1.096939		1.124339
	360410005	New York	Hamilton	71.7	73.0		65.5	66.7		64.1	65.2		63.9	65.1		1.094656	1.094453		1.118565
	360430005	New York	Herkimer	68.3	70.0		63.0	64.6		61.9	63.4		61.7	63.2		1.084127	1.083591		1.103393
	360450002	New York	Jefferson	78.0	80.0		71.2	73.0		69.6	71.4		69.6	71.4		1.095506	1.09589		1.12069
	360530006	New York	Madison	72.0	73.0		64.1	64.9		62.5	63.4		62.4	63.2		1.123245	1.124807		1.152
	360551007	New York	Monroe	75.0	80.0		68.9	73.5		67.4	71.9		67.2	71.7		1.088534	1.088435		1.11276
	360631006	New York	Niagara	82.7	86.0		76.1	79.2		74.7	77.7		74.6	77.5		1.086728	1.085859		1.107095
	360650004	New York	Oneida	68.3	72.0		61.5	64.8		59.9	63.2		59.8	63.0		1.110569	1.111111		1.140234
	360671015	New York	Onondaga	73.7	76.0		66.6	68.7		65.0	67.0		64.9	66.9		1.106607	1.106259		1.133846
	360715001	New York	Orange	82.0	84.0		73.3	75.1		71.0	72.7		71.0	72.7		1.11869	1.118509		1.15493
	360750003	New York	Oswego	78.0	82.0		71.1	74.8		69.6	73.1		69.4	73.0		1.097046	1.096257		1.12069
	360790005	New York	Putnam	84.3	86.0		76.8	78.4		74.7	76.2		74.6	76.1		1.097656	1.096939		1.128514
	360810098	New York	Queens	69.0	69.0		64.3	64.3		63.1	63.1		62.9	62.9		1.073095	1.073095		1.093502

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

				Transport Rule Values											RRFs			
	Monitor ID	State	County	Avg DV-03-07	Max DV-03-07		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base	Max DV-2014 base		Avg DV-2014 remedy	Max DV-2014 remedy		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base
	360810124	New York	Queens	80.0	82.0		75.1	77.0		73.8	75.7		73.7	75.5		1.065246	1.064935		1.084011
	360830004	New York	Rensselaer	77.3	80.0		69.1	71.5		67.1	69.4		67.1	69.4		1.118669	1.118881		1.152012
	360850067	New York	Richmond	88.3	89.0		82.6	83.2		80.8	81.4		80.7	81.3		1.069007	1.069712		1.092822
	360910004	New York	Saratoga	79.7	82.0		71.3	73.4		69.2	71.2		69.2	71.2		1.117812	1.117166		1.151734
	360930003	New York	Schenectady	70.0	74.0		62.8	66.4		60.9	64.4		60.9	64.4		1.11465	1.114458		1.149425
	361030002	New York	Suffolk	90.0	91.0		86.3	87.2		84.9	85.9		84.8	85.7		1.042874	1.043578		1.060071
	361030004	New York	Suffolk	84.7	90.0		78.6	83.6		76.8	81.6		76.6	81.4		1.077608	1.076555		1.102865
	361030009	New York	Suffolk	90.3	91.0		85.1	85.8		83.7	84.4		83.6	84.3		1.061105	1.060606		1.078853
	361111005	New York	Ulster	77.3	79.0		68.4	69.9		66.3	67.7		66.2	67.6		1.130117	1.130186		1.165913
	361173001	New York	Wayne	68.0	71.0		62.1	64.8		60.7	63.4		60.6	63.2		1.095008	1.095679		1.120264
	361192004	New York	Westchester	87.7	90.0		84.7	86.9		83.5	85.6		83.4	85.5		1.035419	1.035673		1.050299
	370030004	North Carolina	Alexander	77.0	79.0		67.8	69.6		65.5	67.2		65.4	67.1		1.135693	1.135057		1.175573
	370110002	North Carolina	Avery	70.0	72.0		60.0	61.8		57.7	59.3		57.5	59.2		1.166667	1.165049		1.213172
	370210030	North Carolina	Buncombe	74.0	74.0		63.8	63.8		61.2	61.2		61.0	61.0		1.159875	1.159875		1.20915
	370270003	North Carolina	Caldwell	74.3	76.0		63.7	65.1		61.1	62.5		60.9	62.3		1.166405	1.167435		1.216039
	370330001	North Carolina	Caswell	76.3	77.0		65.5	66.1		62.7	63.3		62.5	63.0		1.164885	1.164902		1.216906
	370370004	North Carolina	Chatham	73.3	74.0		63.1	63.7		60.5	61.1		60.3	60.9		1.161648	1.161695		1.21157
	370510008	North Carolina	Cumberland	78.0	80.0		67.3	69.1		64.4	66.1		64.2	65.9		1.15899	1.157742		1.21118
	370511003	North Carolina	Cumberland	81.7	83.0		70.5	71.7		67.6	68.7		67.4	68.5		1.158865	1.157601		1.20858
	370590002	North Carolina	Davie	81.3	83.0		71.0	72.5		68.4	69.8		68.1	69.6		1.14507	1.144828		1.188596
	370630013	North Carolina	Durham	77.0	78.0		66.8	67.7		63.8	64.6		63.7	64.5		1.152695	1.152142		1.206897
	370650099	North Carolina	Edgecombe	77.0	79.0		67.3	69.0		64.6	66.3		64.3	65.9		1.144131	1.144928		1.19195
	370670022	North Carolina	Forsyth	78.0	79.0		66.9	67.8		64.5	65.3		64.3	65.1		1.165919	1.165192		1.209302
	370670028	North Carolina	Forsyth	73.0	74.0		62.3	63.2		60.0	60.8		59.8	60.7		1.17175	1.170886		1.216667
	370670030	North Carolina	Forsyth	76.0	76.0		65.7	65.7		63.3	63.3		63.0	63.0		1.156773	1.156773		1.200632
	370671008	North Carolina	Forsyth	80.0	81.0		68.9	69.7		66.3	67.1		66.0	66.8		1.161103	1.162123		1.206637
	370690001	North Carolina	Franklin	78.7	81.0		67.7	69.7		64.4	66.3		64.3	66.1		1.162482	1.162123		1.22205
	370750001	North Carolina	Graham	78.3	79.0		68.4	69.0		65.4	65.9		65.0	65.6		1.144737	1.144928		1.197248
	370770001	North Carolina	Granville	82.0	85.0		70.8	73.4		67.6	70.1		67.5	69.9		1.158192	1.158038		1.213018
	370810011	North Carolina	Guilford	77.0	77.0		67.3	67.3		64.3	64.3		64.2	64.2		1.144131	1.144131		1.197512
	370810013	North Carolina	Guilford	82.0	82.0		71.6	71.6		68.4	68.4		68.2	68.2		1.145251	1.145251		1.19883
	370870004	North Carolina	Haywood	71.3	73.0		62.4	63.9		60.0	61.5		59.8	61.2		1.142628	1.14241		1.188333
	370870035	North Carolina	Haywood	78.3	79.0		68.3	68.9		65.4	66.0		65.2	65.8		1.146413	1.146589		1.197248
	370870036	North Carolina	Haywood	77.3	78.0		68.4	69.0		65.9	66.5		65.7	66.3		1.130117	1.130435		1.172989
	370990005	North Carolina	Jackson	76.0	76.0		66.6	66.6		64.0	64.0		63.7	63.7		1.141141	1.141141		1.1875
	371010002	North Carolina	Johnston	77.3	79.0		66.9	68.4		63.9	65.3		63.7	65.1		1.155456	1.154971		1.209703
	371070004	North Carolina	Lenoir	75.3	77.0		66.6	68.1		64.3	65.7		63.6	65.1		1.130631	1.13069		1.171073
	371090004	North Carolina	Lincoln	81.0	83.0		71.5	73.2		69.2	70.9		69.0	70.7		1.132867	1.13388		1.17052
	371170001	North Carolina	Martin	75.0	77.0		67.9	69.7		66.2	68.0		66.2	67.9		1.104566	1.104735		1.132931
	371190041	North Carolina	Mecklenburg	88.0	90.0		78.5	80.3		75.9	77.6		75.7	77.5		1.121019	1.120797		1.15942
	371191005	North Carolina	Mecklenburg	80.3	83.0		72.1	74.6		69.8	72.1		69.6	72.0		1.113731	1.112601		1.15043
	371191009	North Carolina	Mecklenburg	89.3	93.0		78.3	81.6		75.4	78.5		75.2	78.3		1.140485	1.139706		1.18435
	371290002	North Carolina	New Hanover	72.3	73.0		66.7	67.3		64.8	65.5		64.6	65.2		1.083958	1.084695		1.115741
	371450003	North Carolina	Person	77.3	79.0		65.5	67.0		63.5	64.9		63.6	65.0		1.180153	1.179104		1.217323
	371470099	North Carolina	Pitt	76.3	77.0		66.9	67.5		64.4	65.0		63.8	64.4		1.140508	1.140741		1.184783
	371570099	North Carolina	Rockingham	77.0	78.0		66.1	66.9		63.4	64.2		63.1	64.0		1.164902	1.165919		1.214511
	371590021	North Carolina	Rowan	86.7	89.0		75.7	77.7		72.7	74.7		72.5	74.4		1.14531	1.145431		1.192572
	371590022	North Carolina	Rowan	86.7	90.0		75.9	78.8		72.9	75.7		72.7	75.5		1.142292	1.142132		1.1893
	371730002	North Carolina	Swain	66.3	68.0		57.6	59.1		55.0	56.4		54.7	56.1		1.151042	1.150592		1.205455
	371790003	North Carolina	Union	79.3	81.0		68.8	70.3		66.0	67.4		65.9	67.3		1.152616	1.152205		1.201515

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

				Transport Rule Values											RRFs			
	Monitor ID	State	County	Avg DV-03-07	Max DV-03-07		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base	Max DV-2014 base		Avg DV-2014 remedy	Max DV-2014 remedy		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base
	371830014	North Carolina	Wake	80.3	82.0		70.1	71.6		67.0	68.5		66.9	68.3		1.145506	1.145251		1.198507
	371830016	North Carolina	Wake	80.0	83.0		69.4	72.0		66.3	68.8		66.2	68.7		1.152738	1.152778		1.206637
	371990003	North Carolina	Yancey	76.0	76.0		66.3	66.3		63.7	63.7		63.4	63.4		1.146305	1.146305		1.193093
	390030002	Ohio	Allen	78.7	81.0		70.7	72.8		68.5	70.5		68.4	70.4		1.113154	1.112637		1.148905
	390071001	Ohio	Ashtabula	89.0	91.0		81.1	83.0		79.0	80.8		78.6	80.4		1.097411	1.096386		1.126582
	390170004	Ohio	Butler	83.3	85.0		76.2	77.8		74.2	75.7		73.6	75.1		1.093176	1.092545		1.122642
	390171004	Ohio	Butler	82.3	85.0		74.6	77.0		72.4	74.8		71.9	74.2		1.103217	1.103896		1.13674
	390230001	Ohio	Clark	81.0	83.0		72.4	74.2		70.2	72.0		69.8	71.6		1.118785	1.118598		1.153846
	390230003	Ohio	Clark	77.0	78.0		69.9	70.8		67.9	68.8		67.6	68.4		1.101574	1.101695		1.134021
	390250022	Ohio	Clermont	81.0	83.0		74.2	76.0		72.2	74.0		71.3	73.0		1.091644	1.092105		1.121884
	390271002	Ohio	Clinton	82.3	85.0		73.4	75.8		71.1	73.4		70.3	72.6		1.121253	1.121372		1.157525
	390350034	Ohio	Cuyahoga	71.0	76.0		65.0	69.6		63.4	67.9		63.1	67.5		1.092308	1.091954		1.119874
	390350064	Ohio	Cuyahoga	73.0	76.0		67.3	70.0		65.6	68.3		65.3	68.0		1.084695	1.085714		1.112805
	390355002	Ohio	Cuyahoga	79.7	81.0		73.3	74.5		71.5	72.7		71.2	72.3		1.087312	1.087248		1.114685
	390410002	Ohio	Delaware	78.3	81.0		69.7	72.1		67.2	69.6		67.0	69.3		1.123386	1.12344		1.165179
	390490028	Ohio	Franklin	80.3	82.0		73.6	75.2		71.6	73.1		71.3	72.8		1.091033	1.090426		1.121508
	390490029	Ohio	Franklin	86.3	88.0		77.4	78.9		75.0	76.4		74.7	76.2		1.114987	1.115336		1.150667
	390490037	Ohio	Franklin	80.3	81.0		74.2	74.9		72.1	72.7		71.8	72.4		1.08221	1.081442		1.113731
	390490081	Ohio	Franklin	79.7	80.0		71.9	72.1		69.6	69.8		69.3	69.6		1.108484	1.10957		1.145115
	390550004	Ohio	Geauga	79.3	86.0		71.3	77.3		69.2	75.0		68.8	74.6		1.112202	1.112549		1.145954
	390570006	Ohio	Greene	80.3	83.0		71.7	74.1		69.6	72.0		69.1	71.5		1.119944	1.120108		1.153736
	390610006	Ohio	Hamilton	84.7	86.0		78.1	79.3		76.1	77.2		75.5	76.7		1.084507	1.084489		1.113009
	390610010	Ohio	Hamilton	82.0	84.0		75.7	77.6		74.1	75.9		73.3	75.1		1.083223	1.082474		1.106613
	390610040	Ohio	Hamilton	81.7	83.0		76.0	77.2		74.3	75.4		73.6	74.7		1.075	1.07513		1.099596
	390810017	Ohio	Jefferson	78.0	80.0		68.5	70.3		67.1	68.9		66.5	68.2		1.138686	1.13798		1.162444
	390830002	Ohio	Knox	77.7	79.0		68.6	69.7		66.2	67.3		65.9	67.0		1.132653	1.133429		1.173716
	390850003	Ohio	Lake	86.3	89.0		78.7	81.2		76.7	79.1		76.3	78.7		1.096569	1.096059		1.125163
	390853002	Ohio	Lake	80.7	81.0		73.4	73.7		71.5	71.8		71.1	71.4		1.099455	1.09905		1.128671
	390870006	Ohio	Lawrence	70.7	73.0		63.7	65.8		62.3	64.3		62.1	64.2		1.10989	1.109422		1.134831
	390870011	Ohio	Lawrence	63.3	69.0		55.3	60.3		53.9	58.8		53.8	58.7		1.144665	1.144279		1.174397
	390890005	Ohio	Licking	78.0	81.0		68.9	71.6		66.4	68.9		66.1	68.7		1.132075	1.131285		1.174699
	390930018	Ohio	Lorain	76.7	80.0		70.4	73.4		68.6	71.6		68.2	71.1		1.089489	1.089918		1.118076
	390950024	Ohio	Lucas	76.3	78.0		70.3	71.9		68.7	70.2		68.3	69.8		1.085349	1.08484		1.110626
	390950027	Ohio	Lucas	77.7	82.0		72.1	76.1		70.5	74.4		70.1	74.0		1.07767	1.07753		1.102128
	390950034	Ohio	Lucas	81.3	86.0		74.8	79.1		73.0	77.2		72.5	76.7		1.086898	1.087231		1.113699
	390950081	Ohio	Lucas	80.7	84.0		74.4	77.4		72.6	75.6		72.2	75.1		1.084677	1.085271		1.11157
	390970007	Ohio	Madison	79.7	82.0		70.6	72.6		68.4	70.3		68.0	70.0		1.128895	1.129477		1.165205
	390990013	Ohio	Mahoning	78.7	80.0		70.7	71.9		69.0	70.2		68.4	69.6		1.113154	1.112656		1.14058
	391030003	Ohio	Medina	80.3	84.0		71.5	74.8		69.3	72.5		68.9	72.1		1.123077	1.122995		1.15873
	391090005	Ohio	Miami	76.7	80.0		68.1	71.1		65.9	68.8		65.6	68.4		1.126285	1.125176		1.163885
	391130037	Ohio	Montgomery	74.0	75.0		66.3	67.2		64.4	65.3		64.0	64.9		1.116139	1.116071		1.149068
	391331001	Ohio	Portage	83.7	88.0		75.3	79.1		73.0	76.8		72.7	76.4		1.111554	1.112516		1.146575
	391351001	Ohio	Preble	73.0	75.0		65.1	66.9		63.1	64.8		62.5	64.3		1.121352	1.121076		1.156894
	391510016	Ohio	Stark	78.0	79.0		68.7	69.6		66.6	67.5		66.3	67.2		1.135371	1.135057		1.171171
	391510022	Ohio	Stark	77.3	80.0		68.9	71.3		67.0	69.4		66.6	68.9		1.121916	1.12202		1.153731
	391514005	Ohio	Stark	81.0	82.0		71.3	72.2		69.3	70.2		69.0	69.8		1.136045	1.135734		1.168831
	391530020	Ohio	Summit	83.7	85.0		74.7	75.8		72.3	73.4		72.0	73.1		1.120482	1.121372		1.157676
	391550009	Ohio	Trumbull	80.0	83.0		71.3	73.9		69.3	71.9		68.8	71.3		1.12202	1.123139		1.154401
	391550011	Ohio	Trumbull	84.3	86.0		75.8	77.4		74.0	75.5		73.4	74.8		1.112137	1.111111		1.139189
	391650007	Ohio	Warren	87.7	89.0		79.0	80.1		76.6	77.7		76.0	77.1		1.110127	1.111111		1.144909

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

				Transport Rule Values											RRFs			
	Monitor ID	State	County	Avg DV-03-07	Max DV-03-07		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base	Max DV-2014 base		Avg DV-2014 remedy	Max DV-2014 remedy		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base
	391670004	Ohio	Washington	82.7	85.0		75.2	77.2		73.8	75.9		72.3	74.4		1.099734	1.101036		1.120596
	391730003	Ohio	Wood	80.0	83.0		73.4	76.2		71.6	74.3		71.2	73.8		1.089918	1.089239		1.117318
	400170101	Oklahoma	Canadian	76.0	76.0		71.1	71.1		68.5	68.5		67.9	67.9		1.068917	1.068917		1.109489
	400219002	Oklahoma	Cherokee	75.7	76.0		72.1	72.3		70.5	70.8		65.7	65.9		1.049931	1.051176		1.073759
	400270049	Oklahoma	Cleveland	74.7	75.0		69.1	69.4		66.7	67.0		65.8	66.1		1.081042	1.080692		1.11994
	400310647	Oklahoma	Comanche	77.5	78.0		71.3	71.7		68.8	69.3		68.3	68.7		1.086957	1.087866		1.126453
	400370144	Oklahoma	Creek	76.7	77.0		70.7	71.0		68.6	68.9		66.6	66.9		1.084866	1.084507		1.118076
	400719010	Oklahoma	Kay	78.0	79.0		72.7	73.6		70.6	71.5		67.7	68.5		1.072902	1.07337		1.104816
	400871073	Oklahoma	McClain	72.0	72.0		66.4	66.4		64.0	64.0		63.2	63.2		1.084337	1.084337		1.125
	400979014	Oklahoma	Mayes	78.5	79.0		75.0	75.4		73.6	74.1		69.3	69.7		1.046667	1.047745		1.066576
	401090033	Oklahoma	Oklahoma	77.0	77.0		72.3	72.3		70.3	70.3		69.4	69.4		1.065007	1.065007		1.095306
	401090096	Oklahoma	Oklahoma	76.3	78.0		71.1	72.7		68.9	70.4		67.6	69.1		1.073136	1.072902		1.107402
	401091037	Oklahoma	Oklahoma	80.0	81.0		73.5	74.4		70.6	71.5		70.1	71.0		1.088435	1.08871		1.133144
	401159004	Oklahoma	Ottawa	78.0	79.0		72.9	73.9		71.4	72.3		68.0	68.9		1.069959	1.069012		1.092437
	401210415	Oklahoma	Pittsburg	72.0	73.0		67.6	68.5		65.9	66.8		64.3	65.2		1.065089	1.065693		1.092564
	401430137	Oklahoma	Tulsa	79.3	80.0		73.1	73.7		70.7	71.3		68.9	69.5		1.084815	1.085482		1.121641
	401430174	Oklahoma	Tulsa	74.0	76.0		68.9	70.8		67.0	68.8		65.0	66.7		1.07402	1.073446		1.104478
	401430178	Oklahoma	Tulsa	79.3	80.0		74.4	75.1		72.5	73.2		70.5	71.2		1.06586	1.065246		1.093793
	401431127	Oklahoma	Tulsa	77.0	78.0		71.6	72.5		69.3	70.2		67.6	68.5		1.075419	1.075862		1.111111
	420010002	Pennsylvania	Adams	76.3	78.0		65.8	67.3		63.7	65.1		63.6	65.0		1.159574	1.15899		1.197802
	420030008	Pennsylvania	Allegheny	79.3	81.0		73.5	75.1		72.4	74.0		72.0	73.5		1.078912	1.078562		1.095304
	420030010	Pennsylvania	Allegheny	82.3	84.0		76.3	77.9		75.2	76.7		74.7	76.2		1.078637	1.078306		1.094415
	420030067	Pennsylvania	Allegheny	80.3	82.0		73.3	74.8		72.0	73.5		71.6	73.1		1.095498	1.096257		1.115278
	420031005	Pennsylvania	Allegheny	83.7	87.0		75.4	78.4		73.9	76.8		73.1	76.0		1.11008	1.109694		1.132612
	420050001	Pennsylvania	Armstrong	83.0	84.0		73.9	74.8		72.2	73.1		71.5	72.3		1.123139	1.122995		1.149584
	420070002	Pennsylvania	Beaver	83.0	84.0		74.6	75.5		73.2	74.1		72.6	73.5		1.112601	1.112583		1.13388
	420070005	Pennsylvania	Beaver	79.3	81.0		71.6	73.1		70.2	71.7		69.7	71.2		1.107542	1.108071		1.12963
	420070014	Pennsylvania	Beaver	74.0	75.0		66.6	67.5		65.4	66.2		64.9	65.8		1.111111	1.111111		1.131498
	420110009	Pennsylvania	Berks	76.0	80.0		67.8	71.4		65.9	69.4		65.6	69.1		1.120944	1.120448		1.153263
	420130801	Pennsylvania	Blair	74.3	77.0		66.1	68.5		64.6	66.9		64.1	66.4		1.124054	1.124088		1.150155
	420170012	Pennsylvania	Bucks	88.0	92.0		81.8	85.6		79.9	83.5		79.8	83.5		1.075795	1.074766		1.101377
	420210011	Pennsylvania	Cambria	74.7	77.0		67.0	69.0		65.3	67.4		64.8	66.8		1.114925	1.115942		1.143951
	420270100	Pennsylvania	Centre	78.3	79.0		69.4	70.0		67.4	68.0		67.1	67.7		1.128242	1.128571		1.161721
	420290100	Pennsylvania	Chester	86.0	87.0		75.1	76.0		73.0	73.9		72.9	73.8		1.14514	1.144737		1.178082
	420334000	Pennsylvania	Clearfield	78.3	82.0		69.4	72.7		67.8	71.0		67.2	70.4		1.128242	1.127923		1.154867
	420430401	Pennsylvania	Dauphin	79.3	81.0		72.2	73.8		70.5	72.0		69.9	71.4		1.098338	1.097561		1.124823
	420431100	Pennsylvania	Dauphin	79.3	81.0		72.4	73.9		70.6	72.1		70.1	71.6		1.095304	1.096076		1.123229
	420450002	Pennsylvania	Delaware	83.3	85.0		75.5	77.1		73.8	75.4		73.8	75.3		1.103311	1.102464		1.128726
	420490003	Pennsylvania	Erie	81.3	83.0		73.9	75.5		72.0	73.5		71.8	73.3		1.100135	1.099338		1.129167
	420550001	Pennsylvania	Franklin	72.3	75.0		62.8	65.1		60.6	62.9		60.5	62.8		1.151274	1.152074		1.193069
	420590002	Pennsylvania	Greene	80.0	81.0		73.4	74.3		72.3	73.2		70.2	71.1		1.089918	1.090175		1.106501
	420630004	Pennsylvania	Indiana	80.0	80.0		71.1	71.1		69.5	69.5		68.8	68.8		1.125176	1.125176		1.151079
	420690101	Pennsylvania	Lackawanna	74.3	75.0		66.0	66.6		64.1	64.7		63.9	64.5		1.125758	1.126126		1.159126
	420692006	Pennsylvania	Lackawanna	75.3	76.0		66.8	67.4		64.8	65.4		64.6	65.2		1.127246	1.127596		1.162037
	420710007	Pennsylvania	Lancaster	83.3	84.0		74.3	74.9		72.3	72.9		72.0	72.6		1.121131	1.121495		1.152144
	420730015	Pennsylvania	Lawrence	72.3	73.0		64.4	65.1		62.9	63.5		62.3	62.9		1.122671	1.121352		1.149444
	420770004	Pennsylvania	Lehigh	83.3	85.0		74.7	76.3		72.5	74.0		72.5	74.0		1.115127	1.114024		1.148966
	420791100	Pennsylvania	Luzerne	69.3	73.0		61.8	65.1		60.0	63.2		59.8	63.0		1.121359	1.121352		1.155
	420791101	Pennsylvania	Luzerne	76.3	77.0		67.9	68.5		65.9	66.5		65.7	66.3		1.123711	1.124088		1.157815
	420810100	Pennsylvania	Lycoming	77.3	79.0		68.7	70.2		66.7	68.2		66.5	68.0		1.125182	1.125356		1.158921

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

				Transport Rule Values											RRFs			
	Monitor ID	State	County	Avg DV-03-07	Max DV-03-07		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base	Max DV-2014 base		Avg DV-2014 remedy	Max DV-2014 remedy		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base
	420850100	Pennsylvania	Mercer	82.0	83.0		74.0	74.9		72.3	73.2		71.7	72.5		1.108108	1.108144		1.134163
	420910013	Pennsylvania	Montgomery	85.7	86.0		79.1	79.4		77.5	77.7		77.4	77.7		1.083439	1.083123		1.105806
	420950025	Pennsylvania	Northampton	84.3	87.0		75.4	77.9		73.2	75.6		73.2	75.5		1.118037	1.116816		1.151639
	420958000	Pennsylvania	Northampton	80.0	82.0		71.4	73.2		69.2	70.9		69.2	70.9		1.120448	1.120219		1.156069
	420990301	Pennsylvania	Perry	77.0	78.0		69.2	70.1		67.1	68.0		66.8	67.7		1.112717	1.112696		1.147541
	421010004	Pennsylvania	Philadelphia	64.3	68.0		61.0	64.5		59.8	63.3		59.8	63.3		1.054098	1.054264		1.075251
	421010014	Pennsylvania	Philadelphia	79.7	81.0		76.0	77.3		74.9	76.1		74.9	76.1		1.048684	1.047865		1.064085
	421010024	Pennsylvania	Philadelphia	90.3	91.0		85.3	86.0		83.6	84.3		83.6	84.3		1.058617	1.05814		1.080144
	421010136	Pennsylvania	Philadelphia	77.0	77.0		71.3	71.3		70.1	70.1		70.0	70.0		1.079944	1.079944		1.098431
	421174000	Pennsylvania	Tioga	77.7	81.0		68.8	71.8		66.9	69.7		66.7	69.5		1.12936	1.128134		1.161435
	421250005	Pennsylvania	Washington	78.3	80.0		71.5	73.1		70.3	71.8		70.0	71.5		1.095105	1.094391		1.113798
	421250200	Pennsylvania	Washington	77.3	81.0		70.1	73.5		68.8	72.1		68.5	71.8		1.10271	1.102041		1.123547
	421255001	Pennsylvania	Washington	78.0	78.0		70.0	70.0		68.5	68.5		68.0	68.0		1.114286	1.114286		1.138686
	421290006	Pennsylvania	Westmoreland	78.3	80.0		72.2	73.7		70.9	72.4		70.3	71.8		1.084488	1.085482		1.104372
	421290008	Pennsylvania	Westmoreland	79.0	82.0		72.1	74.8		70.6	73.2		70.1	72.8		1.0957	1.096257		1.11898
	421330008	Pennsylvania	York	82.0	83.0		73.6	74.5		71.7	72.6		71.3	72.2		1.11413	1.114094		1.143654
	440030002	Rhode Island	Kent	84.3	86.0		75.4	77.0		73.3	74.8		73.2	74.7		1.118037	1.116883		1.150068
	440071010	Rhode Island	Providence	82.3	84.0		73.5	75.0		71.3	72.8		71.3	72.7		1.119728	1.12		1.154278
	440090007	Rhode Island	Washington	86.0	89.0		77.2	79.9		75.2	77.8		75.1	77.7		1.11399	1.113892		1.143617
	450010001	South Carolina	Abbeville	79.0	81.0		69.1	70.8		66.1	67.7		65.7	67.4		1.143271	1.144068		1.195159
	450030003	South Carolina	Aiken	76.0	77.0		66.4	67.3		63.3	64.1		63.0	63.8		1.144578	1.144131		1.200632
	450070003	South Carolina	Anderson	76.5	78.0		66.7	68.1		63.8	65.0		63.5	64.7		1.146927	1.145374		1.19906
	450110001	South Carolina	Barnwell	73.0	73.0		65.0	65.0		61.9	61.9		61.7	61.7		1.123077	1.123077		1.179321
	450150002	South Carolina	Berkeley	67.3	70.0		60.3	62.7		58.5	60.9		58.1	60.4		1.116086	1.116427		1.150427
	450190046	South Carolina	Charleston	74.0	75.0		67.2	68.1		65.0	65.8		64.5	65.4		1.10119	1.101322		1.138462
	450210002	South Carolina	Cherokee	74.0	75.0		63.8	64.7		61.1	61.9		61.0	61.8		1.159875	1.159196		1.211129
	450230002	South Carolina	Chester	75.7	76.0		66.1	66.4		63.5	63.7		63.4	63.6		1.145234	1.144578		1.192126
	450250001	South Carolina	Chesterfield	75.0	75.0		65.8	65.8		63.4	63.4		63.2	63.2		1.139818	1.139818		1.182965
	450290002	South Carolina	Colleton	72.3	74.0		65.6	67.2		63.0	64.5		62.4	63.9		1.102134	1.10119		1.147619
	450310003	South Carolina	Darlington	76.3	77.0		67.0	67.7		64.6	65.2		64.2	64.8		1.138806	1.137371		1.181115
	450370001	South Carolina	Edgefield	70.0	70.0		61.0	61.0		58.1	58.1		57.8	57.8		1.147541	1.147541		1.204819
	450730001	South Carolina	Oconee	73.0	76.0		63.4	66.0		60.4	62.9		60.1	62.6		1.15142	1.151515		1.208609
	450770002	South Carolina	Pickens	78.7	81.0		68.0	70.0		64.8	66.7		64.5	66.4		1.157353	1.157143		1.214506
	450790007	South Carolina	Richland	80.3	82.0		69.9	71.3		66.5	67.9		66.1	67.5		1.148784	1.15007		1.207519
	450790021	South Carolina	Richland	72.7	73.0		61.7	61.9		58.7	58.9		58.4	58.7		1.178282	1.179321		1.238501
	450791001	South Carolina	Richland	82.3	83.0		71.6	72.2		68.1	68.7		67.8	68.3		1.149441	1.149584		1.208517
	450830009	South Carolina	Spartanburg	82.3	83.0		71.5	72.1		68.6	69.2		68.5	69.1		1.151049	1.151179		1.199708
	450870001	South Carolina	Union	76.0	77.0		66.7	67.6		64.1	64.9		63.9	64.8		1.13943	1.139053		1.185647
	450890001	South Carolina	Williamsburg	69.3	70.0		62.3	62.9		60.2	60.8		59.9	60.5		1.11236	1.112878		1.151163
	450910006	South Carolina	York	76.7	79.0		67.2	69.2		64.5	66.4		64.4	66.3		1.141369	1.141618		1.189147
	470010101	Tennessee	Anderson	77.3	80.0		66.2	68.5		63.2	65.4		63.1	65.3		1.167674	1.167883		1.223101
	470090101	Tennessee	Blount	85.3	86.0		73.4	74.0		70.0	70.6		69.8	70.4		1.162125	1.162162		1.218571
	470090102	Tennessee	Blount	68.5	70.0		59.6	60.9		57.0	58.2		56.7	58.0		1.149329	1.149425		1.201754
	470370011	Tennessee	Davidson	68.7	72.0		60.7	63.6		58.4	61.3		58.2	61.0		1.131796	1.132075		1.17637
	470370026	Tennessee	Davidson	77.7	79.0		68.5	69.6		65.8	66.9		65.6	66.7		1.134307	1.135057		1.180851
	470651011	Tennessee	Hamilton	80.0	83.0		70.6	73.2		66.8	69.3		66.5	69.0		1.133144	1.13388		1.197605
	470654003	Tennessee	Hamilton	81.0	84.0		71.6	74.2		67.8	70.3		67.6	70.1		1.131285	1.132075		1.19469
	470890002	Tennessee	Jefferson	82.3	84.0		71.3	72.8		68.0	69.4		67.8	69.2		1.154278	1.153846		1.210294
	470930021	Tennessee	Knox	78.7	81.0		68.3	70.3		65.1	67.0		65.0	66.9		1.152269	1.152205		1.208909
	470931020	Tennessee	Knox	85.0	88.0		74.0	76.6		70.7	73.2		70.6	73.1		1.148649	1.148825		1.202263

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

				Transport Rule Values											RRFs			
	Monitor ID	State	County	Avg DV-03-07	Max DV-03-07		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base	Max DV-2014 base		Avg DV-2014 remedy	Max DV-2014 remedy		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base
	471050109	Tennessee	Loudon	83.0	85.0		70.6	72.3		67.5	69.1		67.4	69.0		1.175637	1.175657		1.22963
	471210104	Tennessee	Meigs	80.0	81.0		70.1	71.0		66.3	67.1		66.1	66.9		1.141227	1.140845		1.206637
	471490101	Tennessee	Rutherford	76.3	80.0		66.1	69.3		63.2	66.2		63.0	66.0		1.154312	1.154401		1.207278
	471550101	Tennessee	Sevier	79.0	82.0		68.7	71.3		65.8	68.3		65.6	68.1		1.149927	1.15007		1.200608
	471550102	Tennessee	Sevier	80.7	83.0		70.6	72.6		67.6	69.5		67.2	69.2		1.143059	1.143251		1.193787
	471570021	Tennessee	Shelby	80.0	82.0		71.0	72.8		68.5	70.2		68.2	69.9		1.126761	1.126374		1.167883
	471571004	Tennessee	Shelby	80.7	81.0		70.5	70.8		67.8	68.1		67.5	67.7		1.144681	1.144068		1.190265
	471632002	Tennessee	Sullivan	80.3	83.0		74.1	76.6		72.3	74.8		72.2	74.6		1.083671	1.083551		1.11065
	471632003	Tennessee	Sullivan	80.0	83.0		73.7	76.5		72.0	74.7		71.9	74.6		1.085482	1.084967		1.111111
	471650007	Tennessee	Sumner	83.0	84.0		73.0	73.9		70.1	70.9		69.8	70.6		1.136986	1.136671		1.184023
	471650101	Tennessee	Sumner	79.0	82.0		68.0	70.6		65.1	67.6		64.8	67.2		1.161765	1.161473		1.213518
	471870106	Tennessee	Williamson	75.3	77.0		65.2	66.7		62.3	63.7		62.1	63.5		1.154908	1.154423		1.208668
	471890103	Tennessee	Wilson	78.7	82.0		67.9	70.7		64.9	67.6		64.5	67.2		1.159057	1.15983		1.212635
	480290032	Texas	Bexar	82.0	85.0		76.3	79.1		74.0	76.7		73.6	76.2		1.074705	1.074589		1.108108
	480290052	Texas	Bexar	85.0	87.0		79.7	81.6		77.5	79.3		77.0	78.9		1.066499	1.066176		1.096774
	480391004	Texas	Brazoria	94.7	97.0		88.8	91.0		87.0	89.1		86.6	88.7		1.066441	1.065934		1.088506
	480391016	Texas	Brazoria	80.0	85.0		74.0	78.6		72.4	77.0		72.1	76.7		1.081081	1.081425		1.104972
	480850005	Texas	Collin	90.3	92.0		81.4	83.0		78.4	79.9		78.2	79.6		1.109337	1.108434		1.151786
	481130069	Texas	Dallas	87.0	90.0		82.9	85.8		80.5	83.3		80.2	83.0		1.049457	1.048951		1.080745
	481130075	Texas	Dallas	88.3	90.0		82.9	84.5		80.3	81.8		80.0	81.6		1.065139	1.065089		1.099626
	481130087	Texas	Dallas	87.0	88.0		84.6	85.6		82.3	83.3		82.1	83.0		1.028369	1.028037		1.057108
	481133003	Texas	Dallas	78.5	84.0		73.1	78.2		70.9	75.9		70.6	75.5		1.073871	1.074169		1.107193
	481210034	Texas	Denton	94.0	95.0		83.2	84.1		79.9	80.8		79.6	80.4		1.129808	1.129608		1.176471
	481390015	Texas	Ellis	81.7	84.0		73.8	75.9		70.9	72.9		70.5	72.5		1.107046	1.106719		1.152327
	481410029	Texas	El Paso	74.7	77.0		70.6	72.7		70.2	72.4		70.2	72.4		1.058074	1.059147		1.064103
	481410037	Texas	El Paso	77.7	79.0		73.9	75.1		73.2	74.5		73.2	74.4		1.051421	1.051931		1.061475
	481410044	Texas	El Paso	73.0	74.0		69.4	70.4		68.8	69.7		68.8	69.7		1.051873	1.051136		1.061047
	481410055	Texas	El Paso	76.0	77.0		72.3	73.2		71.6	72.6		71.6	72.6		1.051176	1.051913		1.061453
	481410057	Texas	El Paso	75.0	76.0		70.5	71.5		70.0	71.0		70.0	70.9		1.06383	1.062937		1.071429
	481410058	Texas	El Paso	74.3	75.0		70.4	71.0		69.8	70.5		69.8	70.5		1.055398	1.056338		1.06447
	481670014	Texas	Galveston	80.3	87.0		75.1	81.4		73.6	79.7		73.3	79.4		1.069241	1.068796		1.091033
	481830001	Texas	Gregg	84.3	85.0		78.3	79.0		76.8	77.4		76.4	77.1		1.076628	1.075949		1.097656
	482010024	Texas	Harris	88.0	92.0		83.3	87.1		82.2	85.9		81.9	85.6		1.056423	1.056257		1.07056
	482010026	Texas	Harris	85.7	89.0		80.6	83.7		79.1	82.1		78.8	81.8		1.063275	1.063321		1.083439
	482010029	Texas	Harris	91.7	93.0		84.4	85.6		82.3	83.5		82.0	83.2		1.086493	1.086449		1.114216
	482010046	Texas	Harris	78.7	82.0		74.5	77.6		73.5	76.6		73.2	76.3		1.056376	1.056701		1.070748
	482010047	Texas	Harris	78.7	80.0		75.8	77.0		74.8	76.0		74.6	75.8		1.038259	1.038961		1.052139
	482010051	Texas	Harris	93.0	98.0		88.4	93.1		86.6	91.2		86.3	90.9		1.052036	1.052632		1.073903
	482010055	Texas	Harris	100.7	103.0		95.7	97.9		93.8	95.9		93.4	95.5		1.052247	1.052094		1.073561
	482010062	Texas	Harris	95.7	99.0		90.5	93.7		89.0	92.1		88.6	91.6		1.057459	1.056564		1.075281
	482010066	Texas	Harris	92.3	96.0		89.9	93.5		88.8	92.4		88.6	92.1		1.026696	1.026738		1.039414
	482010070	Texas	Harris	84.3	88.0		81.3	84.8		80.2	83.8		80.0	83.5		1.0369	1.037736		1.051122
	482010075	Texas	Harris	83.3	88.0		80.3	84.8		79.3	83.8		79.0	83.5		1.03736	1.037736		1.050441
	482011015	Texas	Harris	89.0	96.0		83.7	90.3		82.1	88.6		81.8	88.2		1.063321	1.063123		1.084044
	482011034	Texas	Harris	82.7	87.0		78.6	82.7		77.7	81.7		77.3	81.4		1.052163	1.051995		1.06435
	482011035	Texas	Harris	86.3	95.0		82.0	90.3		81.1	89.3		80.7	88.8		1.052439	1.052049		1.064118
	482011039	Texas	Harris	96.3	100.0		90.5	93.9		88.9	92.3		88.5	91.9		1.064088	1.064963		1.08324
	482011050	Texas	Harris	89.3	92.0		83.9	86.5		82.5	85.0		82.1	84.6		1.064362	1.063584		1.082424
	482030002	Texas	Harrison	79.0	80.0		70.9	71.8		68.5	69.4		68.1	69.0		1.114245	1.114206		1.153285
	482210001	Texas	Hood	83.0	84.0		72.7	73.6		69.4	70.2		69.0	69.8		1.141678	1.141304		1.195965

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

				Transport Rule Values											RRFs			
	Monitor ID	State	County	Avg DV-03-07	Max DV-03-07		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base	Max DV-2014 base		Avg DV-2014 remedy	Max DV-2014 remedy		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base
	482311006	Texas	Hunt	78.0	79.0		69.9	70.8		67.8	68.7		67.5	68.3		1.11588	1.115819		1.150442
	482450009	Texas	Jefferson	81.7	82.0		75.6	75.9		74.0	74.3		73.3	73.6		1.080688	1.080369		1.104054
	482450011	Texas	Jefferson	80.0	81.0		74.8	75.7		73.2	74.1		72.6	73.5		1.069519	1.070013		1.092896
	482450018	Texas	Jefferson	83.3	84.0		77.4	78.0		75.8	76.4		75.1	75.7		1.076227	1.076923		1.098945
	482450022	Texas	Jefferson	79.7	81.0		73.5	74.7		71.8	72.9		71.1	72.3		1.084354	1.084337		1.110028
	482450101	Texas	Jefferson	84.7	88.0		79.7	82.8		78.1	81.1		77.5	80.5		1.062735	1.062802		1.084507
	482450628	Texas	Jefferson	78.0	78.0		72.9	72.9		71.3	71.3		70.8	70.8		1.069959	1.069959		1.093969
	482510003	Texas	Johnson	87.0	89.0		76.4	78.2		73.2	74.9		72.8	74.4		1.138743	1.138107		1.188525
	482570005	Texas	Kaufman	74.7	76.0		68.1	69.3		65.9	67.0		65.5	66.7		1.096916	1.096681		1.133536
	483390078	Texas	Montgomery	85.0	86.0		77.8	78.8		75.5	76.4		75.4	76.3		1.092545	1.091371		1.125828
	483550025	Texas	Nueces	72.3	75.0		68.3	70.9		67.2	69.8		67.0	69.5		1.058565	1.057828		1.075893
	483611001	Texas	Orange	78.0	80.0		72.3	74.1		70.8	72.6		70.0	71.8		1.078838	1.079622		1.101695
	483611100	Texas	Orange	73.0	74.0		67.2	68.2		65.9	66.8		65.4	66.3		1.08631	1.085044		1.107739
	483670081	Texas	Parker	88.7	91.0		76.0	78.0		72.6	74.5		72.3	74.2		1.167105	1.166667		1.221763
	483970001	Texas	Rockwall	79.7	81.0		73.3	74.5		70.9	72.1		70.5	71.7		1.087312	1.087248		1.124118
	484230007	Texas	Smith	81.0	82.0		74.5	75.4		72.4	73.3		72.1	73.0		1.087248	1.087533		1.118785
	484390075	Texas	Tarrant	95.3	96.0		84.2	84.8		80.9	81.5		80.6	81.2		1.131829	1.132075		1.177998
	484391002	Texas	Tarrant	93.3	95.0		85.1	86.7		82.1	83.6		81.9	83.4		1.096357	1.095732		1.136419
	484392003	Texas	Tarrant	93.7	95.0		84.0	85.2		80.9	82.0		80.6	81.8		1.115476	1.115023		1.15822
	484393009	Texas	Tarrant	92.7	93.0		84.3	84.5		81.2	81.5		80.9	81.2		1.099644	1.100592		1.141626
	484393011	Texas	Tarrant	86.0	87.0		79.6	80.5		77.0	77.9		76.7	77.6		1.080402	1.080745		1.116883
	484530014	Texas	Travis	81.3	82.0		73.6	74.3		71.1	71.7		70.7	71.3		1.10462	1.103634		1.14346
	484530020	Texas	Travis	79.3	81.0		71.7	73.2		69.2	70.7		68.7	70.2		1.105997	1.106557		1.145954
	484530613	Texas	Travis	76.0	76.0		69.3	69.3		67.6	67.6		67.2	67.2		1.096681	1.096681		1.12426
	500030004	Vermont	Bennington	72.0	73.0		63.9	64.8		61.9	62.7		61.8	62.7		1.126761	1.126543		1.163166
	500070007	Vermont	Chittenden	69.7	71.0		63.2	64.4		61.6	62.8		61.6	62.7		1.102848	1.102484		1.131494
	510130020	Virginia	Arlington	86.7	87.0		81.8	82.0		80.0	80.3		79.9	80.1		1.059902	1.060976		1.08375
	510330001	Virginia	Caroline	80.0	81.0		69.3	70.1		66.7	67.6		66.7	67.5		1.154401	1.155492		1.1994
	510360002	Virginia	Charles	80.3	82.0		71.2	72.7		69.2	70.7		69.1	70.6		1.127809	1.127923		1.160405
	510410004	Virginia	Chesterfield	76.7	77.0		68.0	68.2		66.1	66.3		66.0	66.2		1.127941	1.129032		1.160363
	510590005	Virginia	Fairfax	78.3	79.0		70.5	71.1		68.3	68.9		68.2	68.8		1.110638	1.111111		1.146413
	510590018	Virginia	Fairfax	90.0	91.0		83.2	84.1		81.3	82.2		81.1	82.0		1.081731	1.082045		1.107011
	510590030	Virginia	Fairfax	88.0	89.0		81.4	82.3		79.6	80.5		79.5	80.4		1.081081	1.081409		1.105528
	510591005	Virginia	Fairfax	85.7	87.0		79.3	80.5		77.5	78.7		77.4	78.6		1.080706	1.080745		1.105806
	510595001	Virginia	Fairfax	82.0	84.0		76.0	77.8		74.1	75.9		74.0	75.8		1.078947	1.079692		1.106613
	510610002	Virginia	Fauquier	72.7	73.0		62.4	62.7		60.1	60.3		60.1	60.3		1.165064	1.164274		1.209651
	510690010	Virginia	Frederick	72.3	73.0		63.6	64.2		61.6	62.2		61.6	62.2		1.136792	1.137072		1.173701
	510850003	Virginia	Hanover	81.3	82.0		71.4	72.0		69.1	69.7		69.1	69.7		1.138655	1.138889		1.176556
	510870014	Virginia	Henrico	82.0	85.0		72.6	75.3		70.4	73.0		70.3	72.9		1.129477	1.128818		1.164773
	511071005	Virginia	Loudoun	80.7	82.0		72.8	74.0		70.6	71.7		70.5	71.7		1.108516	1.108108		1.143059
	511130003	Virginia	Madison	77.7	80.0		68.0	70.0		65.8	67.7		65.7	67.7		1.142647	1.142857		1.180851
	511390004	Virginia	Page	74.0	76.0		64.9	66.7		62.9	64.6		62.8	64.5		1.140216	1.13943		1.176471
	511530009	Virginia	Prince William	78.7	79.0		70.0	70.3		67.7	68.0		67.7	68.0		1.124286	1.123755		1.162482
	511611004	Virginia	Roanoke	74.7	76.0		67.4	68.5		64.9	66.0		64.7	65.8		1.108309	1.109489		1.151002
	511630003	Virginia	Rockbridge	69.7	71.0		62.0	63.1		59.7	60.8		59.5	60.6		1.124194	1.125198		1.167504
	511790001	Virginia	Stafford	81.7	85.0		72.0	74.9		69.5	72.3		69.4	72.2		1.134722	1.134846		1.17554
	511970002	Virginia	Wythe	72.7	75.0		63.8	65.8		61.3	63.2		61.1	63.0		1.139498	1.139818		1.185971
	515100009	Virginia	Alexandria City	81.7	83.0		75.5	76.7		73.8	75.0		73.6	74.8		1.082119	1.082138		1.107046
	516500004	Virginia	Hampton City	76.7	78.0		71.7	72.9		70.5	71.7		70.4	71.6		1.069735	1.069959		1.087943
	518000004	Virginia	Suffolk City	76.7	78.0		71.9	73.1		70.8	72.0		70.7	71.9		1.066759	1.067031		1.083333

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				Transport Rule Values											RRFs			
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**
	518000005	Virginia	Suffolk City	75.3	77.0		66.8	68.3		64.7	66.2		64.6	66.1		1.127246	1.127379		1.163833
	540030003	West Virginia	Berkeley	75.0	76.0		66.4	67.3		64.2	65.1		64.2	65.0		1.129518	1.129272		1.168224
	540110006	West Virginia	Cabell	78.7	84.0		70.9	75.7		69.3	73.9		69.1	73.8		1.110014	1.109643		1.135642
	540291004	West Virginia	Hancock	75.7	77.0		66.8	68.0		65.6	66.7		64.9	66.0		1.133234	1.132353		1.153963
	540390010	West Virginia	Kanawha	77.3	79.0		66.3	67.7		64.6	66.0		64.4	65.9		1.165913	1.166913		1.196594
	540610003	West Virginia	Monongalia	75.3	78.0		71.4	74.0		70.2	72.7		68.3	70.8		1.054622	1.054054		1.07265
	540690010	West Virginia	Ohio	78.3	82.0		69.3	72.5		68.0	71.2		66.8	70.0		1.12987	1.131034		1.151471
	541071002	West Virginia	Wood	79.0	82.0		70.3	73.0		69.0	71.6		68.1	70.7		1.123755	1.123288		1.144928
	550090026	Wisconsin	Brown	73.7	75.0		67.7	68.9		66.0	67.1		65.6	66.8		1.088626	1.088534		1.116667
	550210015	Wisconsin	Columbia	72.7	74.0		65.7	66.9		64.1	65.3		63.5	64.7		1.106545	1.106129		1.134165
	550250041	Wisconsin	Dane	72.0	74.0		65.6	67.4		64.0	65.8		63.5	65.2		1.097561	1.097923		1.125
	550270007	Wisconsin	Dodge	74.7	77.0		68.4	70.5		66.5	68.5		66.1	68.2		1.092105	1.092199		1.123308
	550290004	Wisconsin	Door	88.7	90.0		80.5	81.7		78.2	79.4		77.8	79.0		1.101863	1.101591		1.134271
	550370001	Wisconsin	Florence	66.3	68.0		60.5	62.1		59.1	60.6		58.7	60.2		1.095868	1.095008		1.121827
	550390006	Wisconsin	Fond du Lac	73.7	75.0		68.1	69.3		66.3	67.5		66.0	67.2		1.082232	1.082251		1.111614
	550410007	Wisconsin	Forest	69.5	71.0		63.3	64.7		61.8	63.1		61.2	62.5		1.097946	1.097372		1.124595
	550550002	Wisconsin	Jefferson	74.3	76.0		68.0	69.5		66.0	67.5		65.6	67.1		1.092647	1.093525		1.125758
	550590019	Wisconsin	Kenosha	84.7	86.0		81.3	82.5		79.9	81.1		79.6	80.9		1.04182	1.042424		1.060075
	550610002	Wisconsin	Kewaunee	82.7	86.0		75.4	78.4		73.4	76.3		73.0	75.9		1.096817	1.096939		1.126703
	550710007	Wisconsin	Manitowoc	85.0	87.0		78.0	79.8		75.9	77.7		75.6	77.4		1.089744	1.090226		1.119895
	550790010	Wisconsin	Milwaukee	69.3	70.0		65.6	66.2		64.1	64.8		63.9	64.5		1.056402	1.057402		1.081123
	550790026	Wisconsin	Milwaukee	76.0	77.0		71.9	72.9		70.3	71.3		70.1	71.0		1.057024	1.056241		1.081081
	550790041	Wisconsin	Milwaukee	81.3	83.0		77.0	78.6		75.2	76.8		74.9	76.5		1.055844	1.05598		1.081117
	550790044	Wisconsin	Milwaukee	71.0	71.0		69.9	69.9		68.9	68.9		68.7	68.7		1.015737	1.015737		1.030479
	550790085	Wisconsin	Milwaukee	82.7	86.0		78.0	81.1		76.2	79.2		75.9	78.9		1.060256	1.060419		1.085302
	550870009	Wisconsin	Outagamie	74.0	75.0		67.9	68.8		66.2	67.1		65.8	66.7		1.089838	1.090116		1.117825
	550890008	Wisconsin	Ozaukee	81.3	85.0		76.3	79.8		74.6	77.9		74.2	77.6		1.065531	1.065163		1.089812
	550890009	Wisconsin	Ozaukee	83.3	88.0		77.6	81.9		75.5	79.8		75.2	79.4		1.073454	1.074481		1.103311
	551010017	Wisconsin	Racine	80.3	82.0		76.3	77.9		74.8	76.4		74.5	76.1		1.052425	1.052632		1.073529
	551050024	Wisconsin	Rock	74.0	76.0		67.2	69.1		65.3	67.1		64.8	66.6		1.10119	1.099855		1.133231
	551091002	Wisconsin	St. Croix	69.0	71.0		64.1	66.0		62.8	64.6		61.9	63.7		1.076443	1.075758		1.098726
	551110007	Wisconsin	Sauk	69.7	71.0		62.9	64.1		61.6	62.8		61.0	62.2		1.108108	1.107644		1.131494
	551170006	Wisconsin	Sheboygan	88.0	89.0		80.8	81.8		78.6	79.5		78.3	79.1		1.089109	1.08802		1.119593
	551270005	Wisconsin	Walworth	75.7	77.0		69.0	70.2		67.0	68.2		66.7	67.9		1.097101	1.096866		1.129851
	551310009	Wisconsin	Washington	72.3	75.0		67.1	69.7		65.2	67.7		64.9	67.3		1.077496	1.07604		1.108896
	551330017	Wisconsin	Waukesha	75.0	75.0		69.2	69.2		67.3	67.3		67.0	67.0		1.083815	1.083815		1.114413
	551330027	Wisconsin	Waukesha	71.5	72.0		66.0	66.5		64.2	64.6		63.9	64.3		1.083333	1.082707		1.113707
																1.00607	1.005917		

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

							Updated DVs												
	Monitor ID	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 85?	Avg DV-2012 base > 85?	Max DV-06-09	Max DV-06-09 <= 85?	Max DV-2012 base > 85?	Max DV-2012 base > 85 AND Avg DV-2012 <=85?	Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	010030010	1.119082		1.157186	1.155556		77	73	75	1	0	77	1	0	0			0	0
	010270001	1.208267		1.221122	1.219904		79	81	80	1	0	81	1	0	0			0	0
	010331002	1.149068		1.152	1.152648		72	67	69.5	1	0	72	1	0	0			0	0
	010510001	1.185309		1.192243	1.191275		71	67	69	1	0	71	1	0	0			0	0
	010550011	1.222781		1.229846	1.228956		71	66	68.5	1	0	71	1	0	0			0	0
	010690004	1.181364		1.187291	1.187291		70	65	67.5	1	0	70	1	0	0			0	0
	010730023	1.173261		1.176383	1.176471		85	79	82	1	0	85	1	0	0			0	0
	010731003	1.176471		1.180867	1.179775		82	74	78	1	0	82	1	0	0			0	0
	010731005	1.189488		1.192931	1.192788		83	78	80.5	1	0	83	1	0	0			0	0
	010731009	1.204112		1.206897	1.207658		80	74	77	1	0	80	1	0	0			0	0
	010731010	1.192369		1.196721	1.196172		76	72	74	1	0	76	1	0	0			0	0
	010732006	1.174142		1.177215	1.177249		87	80	83.5	1	0	87	0	0	0			0	0
	010735002	1.17737		1.182109	1.182796		79	74	76.5	1	0	79	1	0	0			0	0
	010735003	1.19883		1.205008	1.204112		82	76	79	1	0	82	1	0	0			0	0
	010736002	1.171053		1.174855	1.174142		86	79	82.5	1	0	86	0	0	0			0	0
	010790002	1.187801		1.190083	1.189711		76	79	77.5	1	0	79	1	0	0			0	0
	010890014	1.196319		1.19845	1.198157		78	73	75.5	1	0	78	1	0	0			0	0
	010970003	1.125541		1.15512	1.153846		79	73	76	1	0	79	1	0	0			0	0
	010972005	1.124088		1.156863	1.156156		77	74	75.5	1	0	77	1	0	0			0	0
	011011002	1.191626		1.194828	1.195477		74	71	72.5	1	0	74	1	0	0			0	0
	011030011	1.138329		1.141802	1.141618		75	70	72.5	1	0	75	1	0	0			0	0
	011130002	1.192369		1.200337	1.2		74	70	72	1	0	74	1	0	0			0	0
	011170004	1.187584		1.190278	1.190798		87	81	84	1	0	87	0	0	0			0	0
	011190002	1.135972		1.136767	1.135972		65	61	63	1	0	65	1	0	0			0	0
	011210003	1.20603		1.212121	1.212121						0			0	0			0	0
	011250010	1.208791		1.21157	1.212598		75	67	71	1	0	75	1	0	0			0	0
	050350005	1.171053		1.173387	1.174142		82	76	79	1	0	82	1	0	0			0	0
	051190007	1.176471		1.197248	1.197605		74	73	73.5	1	0	74	1	0	0			0	0
	051191002	1.178977		1.198496	1.197691		80	73	76.5	1	0	80	1	0	0			0	0
	051191005	1.171875		1.193548	1.192369						0			0	0			0	0
	080013001	1.043219		1.042296	1.043219		71	72	71.5	1	0	72	1	0	0			0	0
	080050002	1.047865		1.047936	1.047865						0			0	0			0	0
	080130011	1.065789		1.065007	1.065789		81	78	79.5	1	0	81	1	0	0			0	0
	080310002	1.042831		1.042831	1.042831						0			0	0			0	0
	080310014	1.043115		1.042857	1.043115		73	70	71.5	1	0	73	1	0	0			0	0
	080350004	1.063291		1.06274	1.063291		82	77	79.5	1	0	82	1	0	0			0	0
	080590002	1.042216		1.040928	1.040843		78	74	76	1	0	78	1	0	0			0	0
	080590005	1.048951		1.04769	1.048951		78	74	76	1	0	78	1	0	0			0	0
	080590006	1.061174		1.061039	1.061174		86	82	84	1	0	86	0	0	0			0	0
	080590011	1.041931		1.04129	1.041931		81	76	78.5	1	0	81	1	0	0			0	0
	080691004	1.07402		1.0727	1.072464		71	66	68.5	1	0	71	1	0	0			0	0
	081230009	1.069959		1.069735	1.069959		76	71	73.5	1	0	76	1	0	0			0	0
	090010017	1.080432		1.082411	1.081731		89	80	84.5	1	0	89	0	0	0			0	0
	090011123	1.11639		1.117433	1.117717		88	84	86	0	0	88	0	1	1			0	1
	090013007	1.088757		1.090909	1.090047		88	81	84.5	1	0	88	0	1	1			0	1
	090019003	1.081409		1.082716	1.082725		87	82	84.5	1	0	87	0	0	0			0	0
	090031003	1.158301		1.15956	1.159794		87	81	84	1	0	87	0	0	0			0	0
	090050005	1.160365		1.161589	1.16188		83	78	80.5	1	0	83	1	0	0			0	0
	090070007	1.134402		1.135849	1.135802		88	81	84.5	1	0	88	0	0	0			0	0
	090090027	1.109589		1.110644	1.111111		78	72	75	1	0	78	1	0	0			0	0

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

							Updated DVs												
	Monitor ID	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 85?	Avg DV-2012 base > 85?	Max DV-06-09	Max DV-06-09 <= 85?	Max DV-2012 base > 85?	Max DV-2012 base > 85 AND Avg DV-2012 <=85?	Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	090093002	1.117788		1.120347	1.120482		88	81	84.5	1	0	88	0	1	1			0	1
	090110008	1.136951		1.138852	1.138422		89	89	89	0	0	89	0	0	0			0	0
	090131001	1.174194		1.176393	1.175711		86	81	83.5	1	0	86	0	0	0			0	0
	100010002	1.167147		1.16885	1.168831		81	75	78	1	0	81	1	0	0			0	0
	100031007	1.164773		1.166181	1.16643		80	75	77.5	1	0	80	1	0	0			0	0
	100031010	1.132333		1.133609	1.13388		83	78	80.5	1	0	83	1	0	0			0	0
	100031013	1.146853		1.148305	1.148459		78	74	76	1	0	78	1	0	0			0	0
	100051002	1.173104		1.174855	1.174785		81	76	78.5	1	0	81	1	0	0			0	0
	100051003	1.147541		1.148611	1.149111		79	76	77.5	1	0	79	1	0	0			0	0
	110010025	1.097561		1.097796	1.09905		80	77	78.5	1	0	80	1	0	0			0	0
	110010041	1.089744		1.092517	1.092545		86	78	82	1	0	86	0	0	0			0	0
	110010043	1.090226		1.091495	1.091593		87	80	83.5	1	0	87	0	0	0			0	0
	120010025	1.139241		1.202003	1.202003						0			0	0			0	0
	120030002	1.151316		1.180412	1.180438		68	64	66	1	0	68	1	0	0			0	0
	120050006	1.128134		1.176383	1.177326		76	72	74	1	0	76	1	0	0			0	0
	120090007	1.134868		1.15	1.15		69	66	67.5	1	0	69	1	0	0			0	0
	120094001	1.133858		1.15	1.15016		71	66	68.5	1	0	71	1	0	0			0	0
	120110031	1.027732		1.028192	1.029412		62	59	60.5	1	0	62	1	0	0			0	0
	120112003	1.073254		1.077329	1.076923		63	59	61	1	0	63	1	0	0			0	0
	120118002	1.056782		1.060359	1.061807		68	63	65.5	1	0	68	1	0	0			0	0
	120210004	1.175468		1.181661	1.183533		70	67	68.5	1	0	70	1	0	0			0	0
	120230002	1.153846		1.174551	1.174551		70	65	67.5	1	0	70	1	0	0			0	0
	120310077	1.096866		1.124088	1.124088		75	70	72.5	1	0	75	1	0	0			0	0
	120310100	1.109551		1.139296	1.138329		73	69	71	1	0	73	1	0	0			0	0
	120330004	1.071429		1.145115	1.144068		79	74	76.5	1	0	79	1	0	0			0	0
	120330018	1.077922		1.161517	1.162465		79	75	77	1	0	79	1	0	0			0	0
	120330024	1.077128		1.162824	1.162123		77	75	76	1	0	77	1	0	0			0	0
	120570081	1.07095		1.079561	1.079622		81	79	80	1	0	81	1	0	0			0	0
	120570110	1.103048		1.112738	1.112738						0			0	0			0	0
	120571035	1.051176		1.060172	1.059972		75	74	74.5	1	0	75	1	0	0			0	0
	120571065	1.062992		1.074567	1.074271		79	75	77	1	0	79	1	0	0			0	0
	120573002	1.097046		1.100852	1.101695		76	73	74.5	1	0	76	1	0	0			0	0
	120574004	1.114458		1.121212	1.121212						0			0	0			0	0
	120690002	1.147541		1.160363	1.159639		74	70	72	1	0	74	1	0	0			0	0
	120712002	1.15942		1.165837	1.166937		68	66	67	1	0	68	1	0	0			0	0
	120713002	1.160131		1.169717	1.169687		69	65	67	1	0	69	1	0	0			0	0
	120730012	1.186441		1.200686	1.200686		70	66	68	1	0	70	1	0	0			0	0
	120730013	1.19403		1.207483	1.208054		72	67	69.5	1	0	72	1	0	0			0	0
	120813002	1.103352		1.11544	1.114245		70	62	66	1	0	70	1	0	0			0	0
	120814012	1.13069		1.143928	1.142433		69	60	64.5	1	0	69	1	0	0			0	0
	120814013	1.130031		1.144882	1.144201		66	59	62.5	1	0	66	1	0	0			0	0
	120830003	1.180328		1.213198	1.214165		72	67	69.5	1	0	72	1	0	0			0	0
	120830004	1.15873		1.20462	1.20462		72	67	69.5	1	0	72	1	0	0			0	0
	120860027	1.030641		1.034833	1.03352		74	68	71	1	0	74	1	0	0			0	0
	120860029	1.034483		1.038344	1.037594		72	69	70.5	1	0	72	1	0	0			0	0
	120950008	1.126565		1.141007	1.140845		75	71	73	1	0	75	1	0	0			0	0
	120952002	1.108033		1.116901	1.117318		75	70	72.5	1	0	75	1	0	0			0	0
	120972002	1.137072		1.15016	1.149606		72	69	70.5	1	0	72	1	0	0			0	0
	120990020	1.088777		1.090604	1.090604		67	65	66	1	0	67	1	0	0			0	0
	121010005	1.107914		1.132047	1.132353		75	72	73.5	1	0	75	1	0	0			0	0

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

							Updated DVs												
	Monitor ID	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 85?	Avg DV-2012 base > 85?	Max DV-06-09	Max DV-06-09 <= 85?	Max DV-2012 base > 85?	Max DV-2012 base > 85 AND Avg DV-2012 <=85?	Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	121012001	1.114413		1.12943	1.129518		72	67	69.5	1	0	72	1	0	0			0	0
	121030004	1.084695		1.097117	1.097744		71	67	69	1	0	71	1	0	0			0	0
	121030018	1.075758		1.087363	1.087289		70	69	69.5	1	0	70	1	0	0			0	0
	121035002	1.081871		1.093233	1.093058		72	67	69.5	1	0	72	1	0	0			0	0
	121056005	1.129518		1.147105	1.146789		74	70	72	1	0	74	1	0	0			0	0
	121056006	1.131222		1.151002	1.150307		75	71	73	1	0	75	1	0	0			0	0
	121111002	1.131448		1.140652	1.14094		65	63	64	1	0	65	1	0	0			0	0
	121130015	1.073826		1.15942	1.15942		81	77	79	1	0	81	1	0	0			0	0
	121151005	1.145374		1.157186	1.15727		76	74	75	1	0	76	1	0	0			0	0
	121151006	1.14374		1.156151	1.15625		75	72	73.5	1	0	75	1	0	0			0	0
	121152002	1.167192		1.182266	1.182109		74	70	72	1	0	74	1	0	0			0	0
	121171002	1.137371		1.148036	1.149254		72	66	69	1	0	72	1	0	0			0	0
	121272001	1.185567		1.202465	1.204188		66	61	63.5	1	0	66	1	0	0			0	0
	121275002	1.197917		1.210993	1.210526		66	63	64.5	1	0	66	1	0	0			0	0
	121290001	1.150855		1.163132	1.163522		72	67	69.5	1	0	72	1	0	0			0	0
	130210012	1.224189		1.231003	1.22963		78	76	77	1	0	78	1	0	0			0	0
	130210013	1.227273		1.232877	1.232877		80				0			0	0			0	0
	130510021	1.140496		1.149832	1.15		67	64	65.5	1	0	67	1	0	0			0	0
	130550001	1.233766		1.237624	1.237785		73	71	72	1	0	73	1	0	0			0	0
	130590002	1.25		1.255054	1.253776		82	75	78.5	1	0	82	1	0	0			0	0
	130670003	1.183673		1.186514	1.185286		85	80	82.5	1	0	85	1	0	0			0	0
	130730001	1.183144		1.188925	1.188925		74	71	72.5	1	0	74	1	0	0			0	0
	130770002	1.177285		1.193595	1.19382		84	77	80.5	1	0	84	1	0	0			0	0
	130850001	1.22291		1.226688	1.226708		77	73	75	1	0	77	1	0	0			0	0
	130890002	1.134146		1.135723	1.136919		93	86	89.5	0	0	93	0	1	1			0	1
	130893001	1.126761		1.129032	1.129653						0			0	0			0	0
	130970004	1.193634		1.19589	1.196809		87	79	83	1	0	87	0	0	0			0	0
	131130001	1.143959		1.147256	1.146907		86	82	84	1	0	86	0	0	0			0	0
	131210055	1.133896		1.136307	1.136638		91	86	88.5	0	0	91	0	1	1			0	1
	131270006	1.123967		1.161179	1.162393		66	62	64	1	0	66	1	0	0			0	0
	131350002	1.17801		1.181092	1.181102		88	81	84.5	1	0	88	0	0	0			0	0
	131510002	1.184539		1.188079	1.1875		94	87	90.5	0	0	94	0	0	0			0	0
	132130003	1.18797		1.201849	1.202435		78	76	77	1	0	78	1	0	0			0	0
	132150008	1.223242		1.230894	1.230769		78	73	75.5	1	0	78	1	0	0			0	0
	132151003	1.218698		1.225303	1.226891		73	72	72.5	1	0	73	1	0	0			0	0
	132230003	1.235119		1.237288	1.23696		80	74	77	1	0	80	1	0	0			0	0
	132450091	1.184211		1.191395	1.191176		79	73	76	1	0	79	1	0	0			0	0
	132470001	1.208651		1.211306	1.211735		95	85	90	0	0	95	0	0	0			0	0
	132611001	1.178344		1.187192	1.187801		73	68	70.5	1	0	73	1	0	0			0	0
	170010006	1.104101		1.118211	1.118211						0			0	0			0	0
	170190004	1.121795		1.127063	1.127214		65	65	65	1	0	65	1	0	0			0	0
	170230001	1.130137		1.137931	1.137931			66			0			0	0			0	0
	170310001	1.032746		1.034806	1.035354		76	73	74.5	1	0	76	1	0	0			0	0
	170310032	1.060606		1.062947	1.063536		74	71	72.5	1	0	74	1	0	0			0	0
	170310064	1.060606		1.064179	1.063536		70	67	68.5	1	0	70	1	0	0			0	0
	170310072	1.06414		1.067669	1.067251		67	66	66.5	1	0	67	1	0	0			0	0
	170310076	1.025974		1.029412	1.028646		73	71	72	1	0	73	1	0	0			0	0
	170311003	1.049137		1.052414	1.051931		73	69	71	1	0	73	1	0	0			0	0
	170311601	1.043025		1.043537	1.044386		75	74	74.5	1	0	75	1	0	0			0	0
	170314002	1.014925		1.016871	1.016442		62	65	63.5	1	0	65	1	0	0			0	0

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

							Updated DVs												
	Monitor ID	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 85?	Avg DV-2012 base > 85?	Max DV-06-09	Max DV-06-09 <= 85?	Max DV-2012 base > 85?	Max DV-2012 base > 85 AND Avg DV-2012 <=85?	Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	170314007	1.049645		1.05132	1.051136		66	64	65	1	0	66	1	0	0			0	0
	170314201	1.049724		1.050919	1.051176		69	70	69.5	1	0	70	1	0	0			0	0
	170317002	1.05474		1.058583	1.058981		70	67	68.5	1	0	70	1	0	0			0	0
	170436001	1.037037		1.039157	1.038576		63	62	62.5	1	0	63	1	0	0			0	0
	170491001	1.123245		1.127214	1.126761		69	69	69	1	0	69	1	0	0			0	0
	170650002	1.131783		1.130031	1.130031		69	68	68.5	1	0	69	1	0	0			0	0
	170831001	1.133144		1.142235	1.142857		73	70	71.5	1	0	73	1	0	0			0	0
	170890005	1.084507		1.087848	1.087571		66	68	67	1	0	68	1	0	0			0	0
	170971002	1.057564		1.060858	1.060403		71	67	69	1	0	71	1	0	0			0	0
	170971007	1.057564		1.061224	1.060403		72	74	73	1	0	74	1	0	0			0	0
	171110001	1.098592		1.102256	1.103253		65	68	66.5	1	0	68	1	0	0			0	0
	171132003	1.14374		1.149606	1.149068		71	71	71	1	0	71	1	0	0			0	0
	171150013	1.126332		1.13535	1.134969		71	70	70.5	1	0	71	1	0	0			0	0
	171170002	1.172742		1.183144	1.184		70	68	69	1	0	70	1	0	0			0	0
	171190008	1.121495		1.132877	1.132075		76	72	74	1	0	76	1	0	0			0	0
	171191009	1.115538		1.124661	1.124498		78	77	77.5	1	0	78	1	0	0			0	0
	171193007	1.121622		1.132867	1.132333		76	73	74.5	1	0	76	1	0	0			0	0
	171430024	1.141479		1.144054	1.145161		67	62	64.5	1	0	67	1	0	0			0	0
	171431001	1.141141		1.144882	1.144578		72	72	72	1	0	72	1	0	0			0	0
	171570001	1.129518		1.130298	1.129518		72	67	69.5	1	0	72	1	0	0			0	0
	171613002	1.098546		1.118151	1.118421		66	62	64	1	0	66	1	0	0			0	0
	171630010	1.090426		1.099596	1.099196		72	70	71	1	0	72	1	0	0			0	0
	171670010	1.169687		1.176471	1.175497		65	64	64.5	1	0	65	1	0	0			0	0
	171971011	1.085973		1.088012	1.089259		66	64	65	1	0	66	1	0	0			0	0
	172010009	1.139647		1.144279	1.145161		68	71	69.5	1	0	71	1	0	0			0	0
	172012001	1.140065		1.144054	1.145663		65	66	65.5	1	0	66	1	0	0			0	0
	180030002	1.143251		1.145954	1.146409		72	69	70.5	1	0	72	1	0	0			0	0
	180030004	1.142857		1.146605	1.146305		73	71	72	1	0	73	1	0	0			0	0
	180110001	1.142454		1.148415	1.148936		78	75	76.5	1	0	78	1	0	0			0	0
	180150002	1.134644		1.140216	1.141553		72	68	70	1	0	72	1	0	0			0	0
	180190008	1.109626		1.121508	1.121622			77			0			0	0			0	0
	180350010	1.15899		1.164885	1.164179		71	69	70	1	0	71	1	0	0			0	0
	180390007	1.147994		1.154971	1.155989		72	70	71	1	0	72	1	0	0			0	0
	180431004	1.097222		1.108417	1.109551		77	73	75	1	0	77	1	0	0			0	0
	180550001	1.129944		1.138081	1.139601		77	74	75.5	1	0	77	1	0	0			0	0
	180570005	1.13577		1.143845	1.143233			76			0			0	0			0	0
	180590003	1.129707		1.138686	1.139241		76	74	75	1	0	76	1	0	0			0	0
	180630004	1.127596		1.134036	1.134328		73	72	72.5	1	0	73	1	0	0			0	0
	180690002	1.144578		1.146789	1.148036		70	66	68	1	0	70	1	0	0			0	0
	180710001	1.155015		1.163551	1.163859		74	70	72	1	0	74	1	0	0			0	0
	180810002	1.14202		1.151652	1.150442		75	73	74	1	0	75	1	0	0			0	0
	180890022	1.071895		1.076177	1.076115		73				0			0	0			0	0
	180890030	1.067839		1.072848	1.071879		77	70	73.5	1	0	77	1	0	0			0	0
	180892008	1.067568		1.071724	1.071913		73	70	71.5	1	0	73	1	0	0			0	0
	180910005	1.100141		1.104735	1.104816		69	66	67.5	1	0	69	1	0	0			0	0
	180910010	1.106443		1.111898	1.111111			68			0			0	0			0	0
	180950010	1.147776		1.156863	1.156069		71	69	70	1	0	71	1	0	0			0	0
	180970042	1.096681		1.108232	1.109489		78	80	79	1	0	80	1	0	0			0	0
	180970050	1.118785		1.125894	1.125		78	77	77.5	1	0	78	1	0	0			0	0
	180970057	1.104735		1.11276	1.112717		73	70	71.5	1	0	73	1	0	0			0	0

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

							Updated DVs												
	Monitor ID	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 85?	Avg DV-2012 base > 85?	Max DV-06-09	Max DV-06-09 <= 85?	Max DV-2012 base > 85?	Max DV-2012 base > 85 AND Avg DV-2012 <=85?	Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	180970073	1.111111		1.119822	1.119186		72	69	70.5	1	0	72	1	0	0			0	0
	181090005	1.130186		1.142433	1.141618		76	74	75	1	0	76	1	0	0			0	0
	181230009	1.108071		1.109589	1.109589		77	72	74.5	1	0	77	1	0	0			0	0
	181270024	1.081442		1.085992	1.085791		74	73	73.5	1	0	74	1	0	0			0	0
	181270026	1.1		1.105727	1.106322		70	68	69	1	0	70	1	0	0			0	0
	181290003	1.141553		1.14172	1.141553		69	72	70.5	1	0	72	1	0	0			0	0
	181410010	1.139053		1.147465	1.147541		69	66	67.5	1	0	69	1	0	0			0	0
	181410015	1.139971		1.148377	1.148256		61	61	61	1	0	61	1	0	0			0	0
	181411007	1.140473		1.149275	1.148459		73	71	72	1	0	73	1	0	0			0	0
	181450001	1.104972		1.11544	1.11576		75	75	75	1	0	75	1	0	0			0	0
	181630012	1.134752		1.131772	1.131542		78	73	75.5	1	0	78	1	0	0			0	0
	181630013	1.145038		1.143581	1.143293		80	76	78	1	0	80	1	0	0			0	0
	181670018	1.120401		1.133094	1.133672		65	64	64.5	1	0	65	1	0	0			0	0
	181670024	1.112738		1.128049	1.127596		70	66	68	1	0	70	1	0	0			0	0
	181730008	1.111111		1.106838	1.106501		77	72	74.5	1	0	77	1	0	0			0	0
	181730009	1.134644		1.135938	1.136364		71	69	70	1	0	71	1	0	0			0	0
	181730011	1.111111		1.105187	1.104735		71	64	67.5	1	0	71	1	0	0			0	0
	190450021	1.106061		1.119309	1.119632		67	67	67	1	0	67	1	0	0			0	0
	190851101	1.096491		1.125	1.124438		67	64	65.5	1	0	67	1	0	0			0	0
	191130028	1.099071		1.109836	1.111111		68	66	67	1	0	68	1	0	0			0	0
	191130033	1.097179		1.11784	1.118211		67	66	66.5	1	0	67	1	0	0			0	0
	191530058	1.112985		1.122995	1.124361						0			0	0			0	0
	191630014	1.112782		1.128411	1.128049		65	66	65.5	1	0	66	1	0	0			0	0
	191632011	1.107692		1.126761	1.126761						0			0	0			0	0
	191690011	1.116751		1.133829	1.134021		64	62	63	1	0	64	1	0	0			0	0
	200450004	1.121352		1.155063	1.155063						0			0	0			0	0
	200910010	1.091954		1.128936	1.127596		69	65	67	1	0	69	1	0	0			0	0
	201030003	1.103152		1.12782	1.127379		72	69	70.5	1	0	72	1	0	0			0	0
	201070002	1.093058		1.163492	1.163522		70	65	67.5	1	0	70	1	0	0			0	0
	201730001	1.130137		1.146168	1.145833		61	62	61.5	1	0	62	1	0	0			0	0
	201730010	1.119516		1.13535	1.134969		66	66	66	1	0	66	1	0	0			0	0
	201910002	1.13943		1.150883	1.151515		72	70	71	1	0	72	1	0	0			0	0
	202090021	1.078431		1.105727	1.106322		72	66	69	1	0	72	1	0	0			0	0
	210130002	1.211129		1.215254	1.215107		69	67	68	1	0	69	1	0	0			0	0
	210150003	1.147541		1.161043	1.161388		71	68	69.5	1	0	71	1	0	0			0	0
	210190017	1.138329		1.140118	1.141618		74	70	72	1	0	74	1	0	0			0	0
	210290006	1.104651		1.116139	1.116006		72	70	71	1	0	72	1	0	0			0	0
	210370003	1.09067		1.102941	1.102258						0			0	0			0	0
	210430500	1.16129		1.163934	1.165049		69	69	69	1	0	69	1	0	0			0	0
	210470006	1.189427		1.194487	1.19469		78	77	77.5	1	0	78	1	0	0			0	0
	210590005	1.108071		1.108346	1.108071		77	75	76	1	0	77	1	0	0			0	0
	210610501	1.160305		1.162461	1.16208		74	72	73	1	0	74	1	0	0			0	0
	210670001	1.142355		1.148352	1.14841		70	77	73.5	1	0	77	1	0	0			0	0
	210670012	1.14241		1.148693	1.147799		71	70	70.5	1	0	71	1	0	0			0	0
	210890007	1.135371		1.137982	1.137026		76	72	74	1	0	76	1	0	0			0	0
	210910012	1.107872		1.107784	1.107872		76	74	75	1	0	76	1	0	0			0	0
	210930006	1.138686		1.145706	1.145374		77	74	75.5	1	0	77	1	0	0			0	0
	211010014	1.119082		1.117211	1.117479		77	76	76.5	1	0	77	1	0	0			0	0
	211110027	1.098748		1.108984	1.109551		77	75	76	1	0	77	1	0	0			0	0
	211110051	1.091877		1.105932	1.106613		79	79	79	1	0	79	1	0	0			0	0

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

							Updated DVs												
	Monitor ID	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 85?	Avg DV-2012 base > 85?	Max DV-06-09	Max DV-06-09 <= 85?	Max DV-2012 base > 85?	Max DV-2012 base > 85 AND Avg DV-2012 <=85?	Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	211111021	1.08631		1.097372	1.097744		71	70	70.5	1	0	71	1	0	0			0	0
	211130001	1.135693		1.139969	1.140741		73	71	72	1	0	73	1	0	0			0	0
	211170007	1.100543		1.111582	1.111111		77	77	77	1	0	77	1	0	0			0	0
	211390003	1.111111		1.111614	1.111111		71	69	70	1	0	71	1	0	0			0	0
	211451024	1.101449		1.105581	1.106259		75	72	73.5	1	0	75	1	0	0			0	0
	211490001	1.123077		1.119632	1.119632						0			0	0			0	0
	211850004	1.14094		1.151179	1.150203		81	76	78.5	1	0	81	1	0	0			0	0
	211950002	1.176471		1.176367	1.176471		71	70	70.5	1	0	71	1	0	0			0	0
	211990003	1.155698		1.165837	1.165049		68	67	67.5	1	0	68	1	0	0			0	0
	212130004	1.194487		1.197785	1.198157		76	72	74	1	0	76	1	0	0			0	0
	212210013	1.132686		1.132686	1.132686						0			0	0			0	0
	212270008	1.168		1.172638	1.17175		71	67	69	1	0	71	1	0	0			0	0
	220050004	1.088083		1.093333	1.092328		83	78	80.5	1	0	83	1	0	0			0	0
	220110002	1.065341		1.07604	1.07604						0			0	0			0	0
	220150008	1.161765		1.165919	1.165192		74	72	73	1	0	74	1	0	0			0	0
	220170001	1.156069		1.163476	1.164483		76	71	73.5	1	0	76	1	0	0			0	0
	220190002	1.066838		1.076115	1.076524		75	74	74.5	1	0	75	1	0	0			0	0
	220190008	1.061286		1.068702	1.069277		64	61	62.5	1	0	64	1	0	0			0	0
	220190009	1.094391		1.105337	1.104972		74	74	74	1	0	74	1	0	0			0	0
	220330003	1.064302		1.069767	1.070234		80	80	80	1	1	80	1	1	0	Flag		0	1
	220330009	1.067194		1.072096	1.071429		75	72	73.5	1	0	75	1	0	0			0	0
	220330013	1.083223		1.086898	1.086093		77	74	75.5	1	0	77	1	0	0			0	0
	220331001	1.051995		1.055215	1.054545		79	73	76	1	0	79	1	0	0			0	0
	220430001	1.091181		1.144201	1.144201						0			0	0			0	0
	220470007	1.083123		1.089494	1.089987		80	75	77.5	1	0	80	1	0	0			0	0
	220470009	1.078562		1.085482	1.085791		79	75	77	1	0	79	1	0	0			0	0
	220470012	1.077694		1.082803	1.081761		81	78	79.5	1	0	81	1	0	0			0	0
	220511001	1.078306		1.084967	1.085271		79	76	77.5	1	0	79	1	0	0			0	0
	220550005	1.108108		1.11869	1.11869						0			0	0			0	0
	220550007	1.107383		1.118644	1.118644		77	73	75	1	0	77	1	0	0			0	0
	220570004	1.086957		1.093793	1.092896		77	72	74.5	1	0	77	1	0	0			0	0
	220630002	1.098901		1.101266	1.101928		79	78	78.5	1	0	79	1	0	0			0	0
	220710012	1.065449		1.071975	1.071975		70	70	70	1	0	70	1	0	0			0	0
	220730004	1.127379		1.139183	1.139053		66	62	64	1	0	66	1	0	0			0	0
	220770001	1.081761		1.084197	1.084489		83	77	80	1	0	83	1	0	0			0	0
	220870002	1.059783		1.06412	1.06412						0			0	0			0	0
	220890003	1.077348		1.082633	1.083333		74	71	72.5	1	0	74	1	0	0			0	0
	220930002	1.079944		1.085349	1.084507		74	71	72.5	1	0	74	1	0	0			0	0
	220950002	1.072386		1.077763	1.076716		78	76	77	1	0	78	1	0	0			0	0
	221010003	1.107872		1.116006	1.116006						0			0	0			0	0
	221210001	1.066499		1.071156	1.071879		78	73	75.5	1	0	78	1	0	0			0	0
	230050027	1.182171		1.181102	1.182171						0			0	0			0	0
	230052003	1.181102		1.182266	1.181102		74	74	74	1	0	74	1	0	0			0	0
	230090102	1.16573		1.164773	1.16573		80	78	79	1	0	80	1	0	0			0	0
	230090103	1.167192		1.166134	1.167192		72	73	72.5	1	0	73	1	0	0			0	0
	230090301	1.170569		1.170358	1.170569						0			0	0			0	0
	230112005	1.179402		1.179357	1.179402		70	71	70.5	1	0	71	1	0	0			0	0
	230130004	1.179173		1.180251	1.179173		71	70	70.5	1	0	71	1	0	0			0	0
	230173001	1.158088		1.157495	1.158088		62	63	62.5	1	0	63	1	0	0			0	0
	230194008	1.164384		1.165217	1.164384		66	64	65	1	0	66	1	0	0			0	0

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

							Updated DVs												
	Monitor ID	Max DV-2014 base		Avg DV-2014 remedy	Max DV-2014 remedy		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 85?	Avg DV-2012 base > 85?	Max DV-06-09	Max DV-06-09 <= 85?	Max DV-2012 base > 85?	Max DV-2012 base > 85 AND Avg DV-2012 <=85?	Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	230230004	1.182432		1.183074	1.182432						0			0	0			0	0
	230310038	1.18859		1.18871	1.18859		70	68	69	1	0	70	1	0	0			0	0
	230312002	1.170886		1.170886	1.170886		76	74	75	1	0	76	1	0	0			0	0
	230313002	1.17378		1.172742	1.17378		74	77	75.5	1	0	77	1	0	0			0	0
	240030014	1.162791		1.164935	1.165803		87	80	83.5	1	0	87	0	0	0			0	0
	240051007	1.109531		1.11223	1.111111		80	75	77.5	1	0	80	1	0	0			0	0
	240053001	1.109694		1.110677	1.111111		85	78	81.5	1	0	85	1	0	0			0	0
	240090011	1.196455		1.198225	1.198225		79	74	76.5	1	0	79	1	0	0			0	0
	240130001	1.181319		1.183239	1.182944		83	78	80.5	1	0	83	1	0	0			0	0
	240150003	1.178707		1.18099	1.180203		90	84	87	0	0	90	0	0	0			0	0
	240170010	1.207133		1.209564	1.208791		82	75	78.5	1	0	82	1	0	0			0	0
	240210037	1.182336		1.182622	1.182336		82	76	79	1	0	82	1	0	0			0	0
	240230002	1.129272		1.142209	1.142857		73	71	72	1	0	73	1	0	0			0	0
	240251001	1.135266		1.137423	1.136638		91	87	89	0	0	91	0	0	0			0	0
	240259001	1.154822		1.155759	1.15629		89	82	85.5	0	0	89	0	0	0			0	0
	240290002	1.175637		1.178161	1.178977		83	78	80.5	1	0	83	1	0	0			0	0
	240313001	1.115435		1.115591	1.115435		84	78	81	1	0	84	1	0	0			0	0
	240330030	1.131824		1.133333	1.133333		83	78	80.5	1	0	83	1	0	0			0	0
	240338003	1.15629		1.159236	1.159236		87	78	82.5	1	0	87	0	0	0			0	0
	240430009	1.184408		1.186364	1.186186		78	73	75.5	1	0	78	1	0	0			0	0
	250010002	1.15903		1.158687	1.15903		79	76	77.5	1	0	79	1	0	0			0	0
	250034002	1.160458		1.161808	1.162123		76				0			0	0			0	0
	250051002	1.154362		1.155028	1.154362		80	74	77	1	0	80	1	0	0			0	0
	250070001	1.138211		1.138546	1.138211		83	77	80	1	0	83	1	0	0			0	0
	250092006	1.112583		1.11215	1.112583		81	79	80	1	0	81	1	0	0			0	0
	250094004	1.161765		1.161435	1.161765		78	76	77	1	0	78	1	0	0			0	0
	250095005	1.173021		1.172466	1.173021		79	77	78	1	0	79	1	0	0			0	0
	250130008	1.173469		1.174966	1.174968		88	84	86	0	0	88	0	0	0			0	0
	250150103	1.190108		1.19103	1.190108		75	74	74.5	1	0	75	1	0	0			0	0
	250154002	1.177267		1.177285	1.177267		84	80	82	1	0	84	1	0	0			0	0
	250170009	1.179104		1.179104	1.179104		75	74	74.5	1	0	75	1	0	0			0	0
	250171102	1.179039		1.180153	1.180758		78	77	77.5	1	0	78	1	0	0			0	0
	250213003	1.140584		1.141509	1.142098		82	78	80	1	0	82	1	0	0			0	0
	250250041	1.134454		1.134181	1.134454						0			0	0			0	0
	250250042	1.120264		1.1198	1.120264		67	65	66	1	0	67	1	0	0			0	0
	250270015	1.187411		1.188707	1.187411		82	82	82	1	0	82	1	0	0			0	0
	260050003	1.127273		1.133501	1.132765		86	81	83.5	1	0	86	0	0	0			0	0
	260190003	1.123139		1.130014	1.129252		76	72	74	1	0	76	1	0	0			0	0
	260210014	1.118509		1.124317	1.124498		78	76	77	1	0	78	1	0	0			0	0
	260270003	1.147541		1.157819	1.158621		75	75	75	1	0	75	1	0	0			0	0
	260370001	1.169415		1.173643	1.174699		73	71	72	1	0	73	1	0	0			0	0
	260490021	1.142857		1.148588	1.147776		74	72	73	1	0	74	1	0	0			0	0
	260492001	1.134163		1.139368	1.138889		76	74	75	1	0	76	1	0	0			0	0
	260630007	1.119082		1.123145	1.123919		74	72	73	1	0	74	1	0	0			0	0
	260650012	1.165919		1.171032	1.171171		73	73	73	1	0	73	1	0	0			0	0
	260770008	1.145374		1.151376	1.152142		73	74	73.5	1	0	74	1	0	0			0	0
	260810020	1.147994		1.155977	1.154381		77	72	74.5	1	0	77	1	0	0			0	0
	260810022	1.159218		1.167147	1.16737		78	75	76.5	1	0	78	1	0	0			0	0
	260890001	1.114327		1.119822	1.120815		71				0			0	0			0	0
	260910007	1.128134		1.137283	1.13764		75	73	74	1	0	75	1	0	0			0	0

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

							Updated DVs												
	Monitor ID	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 85?	Avg DV-2012 base > 85?	Max DV-06-09	Max DV-06-09 <= 85?	Max DV-2012 base > 85?	Max DV-2012 base > 85 AND Avg DV-2012 <=85?	Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	260990009	1.09356		1.09834	1.097561		81	79	80	1	0	81	1	0	0			0	0
	260991003	1.07275		1.074169	1.074074		80	78	79	1	0	80	1	0	0			0	0
	261050007	1.131285		1.1402	1.140845		75	73	74	1	0	75	1	0	0			0	0
	261130001	1.136364		1.14619	1.145038		71	69	70	1	0	71	1	0	0			0	0
	261210039	1.12532		1.131824	1.132561		82	77	79.5	1	0	82	1	0	0			0	0
	261250001	1.074271		1.078838	1.078562		77	77	77	1	0	77	1	0	0			0	0
	261390005	1.13941		1.147472	1.147099		79	75	77	1	0	79	1	0	0			0	0
	261470005	1.127321		1.13205	1.131824		78	75	76.5	1	0	78	1	0	0			0	0
	261530001	1.132597		1.136103	1.135734		75	70	72.5	1	0	75	1	0	0			0	0
	261610008	1.100543		1.105932	1.106557		74	70	72	1	0	74	1	0	0			0	0
	261630001	1.091703		1.096096	1.096491		71	69	70	1	0	71	1	0	0			0	0
	261630016	1.104651		1.108597	1.107872						0			0	0			0	0
	261630019	1.083551		1.087533	1.087811		82	80	81	1	0	82	1	0	0			0	0
	270031002	1.019202		1.030441	1.029851		65	64	64.5	1	0	65	1	0	0			0	0
	280330002	1.167582		1.17305	1.174033		81	76	78.5	1	0	81	1	0	0			0	0
	280450001	1.125356		1.146589	1.146589						0			0	0			0	0
	280470008	1.106667		1.160839	1.160839		81	79	80	1	0	81	1	0	0			0	0
	280470009	1.09375		1.13069	1.13069						0			0	0			0	0
	280490010	1.260794		1.26643	1.267361		72	66	69	1	0	72	1	0	0			0	0
	280590006	1.103542		1.148784	1.148936		78	75	76.5	1	0	78	1	0	0			0	0
	280590007	1.099554		1.165354	1.165354						0			0	0			0	0
	280750003	1.193093		1.196457	1.19685		71	64	67.5	1	0	71	1	0	0			0	0
	280810005	1.201923		1.204248	1.205788		72	68	70	1	0	72	1	0	0			0	0
	290370003	1.1		1.152778	1.152695		72	67	69.5	1	0	72	1	0	0			0	0
	290390001	1.107872		1.145234	1.146305		72	67	69.5	1	0	72	1	0	0			0	0
	290470003	1.121884		1.160059	1.160458		77	72	74.5	1	0	77	1	0	0			0	0
	290470005	1.102662		1.13459	1.134289		81	74	77.5	1	0	81	1	0	0			0	0
	290470006	1.10687		1.136986	1.137255		81	76	78.5	1	0	81	1	0	0			0	0
	290490001	1.114024		1.146409	1.147099		79	76	77.5	1	0	79	1	0	0			0	0
	290770036	1.13069		1.149606	1.149254		73	69	71	1	0	73	1	0	0			0	0
	290990012	1.087231		1.092961	1.092757		84	87	85.5	0	0	87	0	0	0			0	0
	291130003	1.13577		1.141732	1.141732		81	75	78	1	0	81	1	0	0			0	0
	291370001	1.11276		1.127358	1.126126		71	67	69	1	0	71	1	0	0			0	0
	291570001	1.133144		1.1347	1.134752		77	74	75.5	1	0	77	1	0	0			0	0
	291650023	1.095306		1.122449	1.122449						0			0	0			0	0
	291831002	1.108344		1.117876	1.11809		85	78	81.5	1	0	85	1	0	0			0	0
	291831004	1.119497		1.125485	1.125158		82	76	79	1	0	82	1	0	0			0	0
	291860005	1.13079		1.138571	1.138546		79	76	77.5	1	0	79	1	0	0			0	0
	291890004	1.069652		1.074413	1.073658		78	73	75.5	1	0	78	1	0	0			0	0
	291890005	1.108144		1.114094	1.114094		76	71	73.5	1	0	76	1	0	0			0	0
	291890006	1.089385		1.095506	1.095506						0			0	0			0	0
	291890014	1.08508		1.090458	1.090458		82	77	79.5	1	0	82	1	0	0			0	0
	295100085	1.06599		1.074169	1.074169		78	75	76.5	1	0	78	1	0	0			0	0
	295100086	1.066998		1.07513	1.075		81	81	81	1	0	81	1	0	0			0	0
	310550028	1.080247		1.0992	1.100629		65	59	62	1	0	65	1	0	0			0	0
	310550032	1.089109		1.107877	1.107383		58	52	55	1	0	58	1	0	0			0	0
	310550035	1.081081		1.101329	1.102107		62	60	61	1	0	62	1	0	0			0	0
	311090016	1.108949		1.124498	1.12426		53	52	52.5	1	0	53	1	0	0			0	0
	330012004	1.168		1.166939	1.168		70	69	69.5	1	0	70	1	0	0			0	0
	330050007	1.175497		1.176373	1.175497		69	67	68	1	0	69	1	0	0			0	0

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

							Updated DVs												
	Monitor ID	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 85?	Avg DV-2012 base > 85?	Max DV-06-09	Max DV-06-09 <= 85?	Max DV-2012 base > 85?	Max DV-2012 base > 85 AND Avg DV-2012 <=85?	Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	330074001	1.147541		1.147541	1.147541		76	76	76	1	0	76	1	0	0			0	0
	330074002	1.14726		1.146384	1.14726		61	61	61	1	0	61	1	0	0			0	0
	330090010	1.175439		1.175439	1.175439		67	66	66.5	1	0	67	1	0	0			0	0
	330110020	1.191275		1.191525	1.191275		68	66	67	1	0	68	1	0	0			0	0
	330111011	1.190476		1.19062	1.190476		73	71	72	1	0	73	1	0	0			0	0
	330115001	1.174743		1.175676	1.176471		78	76	77	1	0	78	1	0	0			0	0
	330131007	1.190083		1.19103	1.190083		70	68	69	1	0	70	1	0	0			0	0
	330150014	1.173709		1.172684	1.173709		73	72	72.5	1	0	73	1	0	0			0	0
	330150016	1.173848		1.173709	1.173848		79	76	77.5	1	0	79	1	0	0			0	0
	330190003	1.166937		1.168614	1.168831		68	69	68.5	1	0	69	1	0	0			0	0
	340010005	1.15493		1.155977	1.15493		73	72	72.5	1	0	73	1	0	0			0	0
	340030005	1.064356		1.065675	1.065675						0			0	0			0	0
	340070003	1.09589		1.095908	1.09589		87	86	86.5	0	0	87	0	0	0			0	0
	340071001	1.13608		1.136132	1.13608		86	81	83.5	1	0	86	0	0	0			0	0
	340110007	1.166667		1.168303	1.168289		81	78	79.5	1	0	81	1	0	0			0	0
	340150002	1.119593		1.121134	1.121019		87	83	85	1	0	87	0	0	0			0	0
	340170006	1.089351		1.09172	1.092025		86	80	83	1	0	86	0	0	0			0	0
	340190001	1.162791		1.163399	1.162791		86	81	83.5	1	0	86	0	0	0			0	0
	340210005	1.109756		1.10971	1.109756		87	81	84	1	0	87	0	0	0			0	0
	340230011	1.134663		1.134961	1.134663		88	80	84	1	0	88	0	0	0			0	0
	340250005	1.126582		1.127907	1.12801		86	81	83.5	1	0	86	0	0	0			0	0
	340273001	1.146667		1.147383	1.146667		86	79	82.5	1	0	86	0	0	0			0	0
	340290006	1.150551		1.152416	1.151961		87	80	83.5	1	0	87	0	0	0			0	0
	340315001	1.105193		1.106557	1.106667		79	76	77.5	1	0	79	1	0	0			0	0
	350130008	1.061947		1.063158	1.063516		70	67	68.5	1	0	70	1	0	0			0	0
	350130017	1.069837		1.068966	1.069837		69	66	67.5	1	0	69	1	0	0			0	0
	350130021	1.069444		1.069602	1.069444		76	72	74	1	0	76	1	0	0			0	0
	350130022	1.070912		1.072271	1.072464		72	70	71	1	0	72	1	0	0			0	0
	350450009	1.057269		1.057663	1.057269		65	61	63	1	0	65	1	0	0			0	0
	350451005	1.054173		1.054734	1.054173		71	67	69	1	0	71	1	0	0			0	0
	360010012	1.153263		1.153365	1.153263		72	72	72	1	0	72	1	0	0			0	0
	360050110	1.093525		1.096296	1.096681		74	72	73	1	0	74	1	0	0			0	0
	360050133	1.053371		1.055085	1.054852			73			0			0	0			0	0
	360130006	1.119497		1.123057	1.123737		84	79	81.5	1	0	84	1	0	0			0	0
	360130011	1.123755		1.128467	1.128571		76	74	75	1	0	76	1	0	0			0	0
	360150003	1.153213		1.156566	1.157025		69	69	69	1	0	69	1	0	0			0	0
	360270007	1.158358		1.159265	1.158358		74	75	74.5	1	0	75	1	0	0			0	0
	360290002	1.124183		1.127321	1.128609		81	76	78.5	1	0	81	1	0	0			0	0
	360410005	1.119632		1.122066	1.121352		70	70	70	1	0	70	1	0	0			0	0
	360430005	1.104101		1.106969	1.107595		70	70	70	1	0	70	1	0	0			0	0
	360450002	1.120448		1.12069	1.120448		75	74	74.5	1	0	75	1	0	0			0	0
	360530006	1.15142		1.153846	1.155063		72	71	71.5	1	0	72	1	0	0			0	0
	360551007	1.112656		1.116071	1.11576		80	72	76	1	0	80	1	0	0			0	0
	360631006	1.106821		1.108579	1.109677		76	73	74.5	1	0	76	1	0	0			0	0
	360650004	1.139241		1.14214	1.142857		67	64	65.5	1	0	67	1	0	0			0	0
	360671015	1.134328		1.135593	1.136024		74	70	72	1	0	74	1	0	0			0	0
	360715001	1.155433		1.15493	1.155433		80	76	78	1	0	80	1	0	0			0	0
	360750003	1.121751		1.123919	1.123288		74	71	72.5	1	0	74	1	0	0			0	0
	360790005	1.128609		1.130027	1.130092		79	78	78.5	1	0	79	1	0	0			0	0
	360810098	1.093502		1.096979	1.096979						0			0	0			0	0

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

							Updated DVs												
	Monitor ID	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 85?	Avg DV-2012 base > 85?	Max DV-06-09	Max DV-06-09 <= 85?	Max DV-2012 base > 85?	Max DV-2012 base > 85 AND Avg DV-2012 <=85?	Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	360810124	1.083223		1.085482	1.086093		77	74	75.5	1	0	77	1	0	0			0	0
	360830004	1.152738		1.152012	1.152738		74	73	73.5	1	0	74	1	0	0			0	0
	360850067	1.093366		1.094176	1.094711		79	74	76.5	1	0	79	1	0	0			0	0
	360910004	1.151685		1.151734	1.151685		77	75	76	1	0	77	1	0	0			0	0
	360930003	1.149068		1.149425	1.149068		66	67	66.5	1	0	67	1	0	0			0	0
	361030002	1.059371		1.061321	1.061844		85	81	83	1	1	85	1	1	0	Flag		0	1
	361030004	1.102941		1.105744	1.105651		89	79	84	1	0	89	0	0	0			0	0
	361030009	1.078199		1.080144	1.079478		86	80	83	1	1	86	0	1	0	Flag		0	1
	361111005	1.166913		1.167674	1.168639		72	69	70.5	1	0	72	1	0	0			0	0
	361173001	1.119874		1.122112	1.123418		71	70	70.5	1	0	71	1	0	0			0	0
	361192004	1.051402		1.051559	1.052632		86	83	84.5	1	0	86	0	1	1			0	1
	370030004	1.175595		1.17737	1.177347		77	73	75	1	0	77	1	0	0			0	0
	370110002	1.214165		1.217391	1.216216		67	65	66	1	0	67	1	0	0			0	0
	370210030	1.20915		1.213115	1.213115		71	69	70	1	0	71	1	0	0			0	0
	370270003	1.216		1.220033	1.219904		75	71	73	1	0	75	1	0	0			0	0
	370330001	1.21643		1.2208	1.222222		79	76	77.5	1	0	79	1	0	0			0	0
	370370004	1.211129		1.215589	1.215107		72	69	70.5	1	0	72	1	0	0			0	0
	370510008	1.210287		1.214953	1.213961		75	73	74	1	0	75	1	0	0			0	0
	370511003	1.208151		1.212166	1.211679		77	74	75.5	1	0	77	1	0	0			0	0
	370590002	1.189112		1.193833	1.192529		82	78	80	1	0	82	1	0	0			0	0
	370630013	1.20743		1.208791	1.209302						0			0	0			0	0
	370650099	1.191554		1.197512	1.198786		76	73	74.5	1	0	76	1	0	0			0	0
	370670022	1.209801		1.213064	1.213518		81	76	78.5	1	0	81	1	0	0			0	0
	370670028	1.217105		1.220736	1.21911		73	72	72.5	1	0	73	1	0	0			0	0
	370670030	1.200632		1.206349	1.206349		77	72	74.5	1	0	77	1	0	0			0	0
	370671008	1.207154		1.212121	1.212575		81				0			0	0			0	0
	370690001	1.221719		1.22395	1.225416		77	74	75.5	1	0	77	1	0	0			0	0
	370750001	1.198786		1.204615	1.204268		78				0			0	0			0	0
	370770001	1.212553		1.214815	1.216023		80	77	78.5	1	0	80	1	0	0			0	0
	370810011	1.197512		1.199377	1.199377						0			0	0			0	0
	370810013	1.19883		1.202346	1.202346		82	79	80.5	1	0	82	1	0	0			0	0
	370870004	1.186992		1.192308	1.19281		71	68	69.5	1	0	71	1	0	0			0	0
	370870035	1.19697		1.20092	1.200608		78	74	76	1	0	78	1	0	0			0	0
	370870036	1.172932		1.17656	1.176471		77	74	75.5	1	0	77	1	0	0			0	0
	370990005	1.1875		1.193093	1.193093		77	71	74	1	0	77	1	0	0			0	0
	371010002	1.209801		1.213501	1.213518		75	73	74	1	0	75	1	0	0			0	0
	371070004	1.171994		1.183962	1.182796		74	71	72.5	1	0	74	1	0	0			0	0
	371090004	1.170663		1.173913	1.173975		82	76	79	1	0	82	1	0	0			0	0
	371170001	1.132353		1.132931	1.134021		73	71	72	1	0	73	1	0	0			0	0
	371190041	1.159794		1.162483	1.16129		89	82	85.5	0	0	89	0	0	0			0	0
	371191005	1.151179		1.153736	1.152778		79	76	77.5	1	0	79	1	0	0			0	0
	371191009	1.184713		1.1875	1.187739		94	86	90	0	0	94	0	0	0			0	0
	371290002	1.114504		1.119195	1.119632						0			0	0			0	0
	371450003	1.217257		1.215409	1.215385		77	74	75.5	1	0	77	1	0	0			0	0
	371470099	1.184615		1.195925	1.195652		76	79	77.5	1	0	79	1	0	0			0	0
	371570099	1.214953		1.220285	1.21875		80	78	79	1	0	80	1	0	0			0	0
	371590021	1.191432		1.195862	1.196237		88	83	85.5	0	0	88	0	0	0			0	0
	371590022	1.188904		1.192572	1.192053		88	83	85.5	0	0	88	0	0	0			0	0
	371730002	1.205674		1.212066	1.212121		65	64	64.5	1	0	65	1	0	0			0	0
	371790003	1.20178		1.203338	1.203566		80	76	78	1	0	80	1	0	0			0	0

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

							Updated DVs												
	Monitor ID	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 85?	Avg DV-2012 base > 85?	Max DV-06-09	Max DV-06-09 <= 85?	Max DV-2012 base > 85?	Max DV-2012 base > 85 AND Avg DV-2012 <=85?	Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	371830014	1.19708		1.200299	1.200586		80	76	78	1	0	80	1	0	0			0	0
	371830016	1.206395		1.208459	1.208151		77	75	76	1	0	77	1	0	0			0	0
	371990003	1.193093		1.198738	1.198738						0			0	0			0	0
	390030002	1.148936		1.150585	1.150568		73	70	71.5	1	0	73	1	0	0			0	0
	390071001	1.126238		1.132316	1.131841		84	80	82	1	0	84	1	0	0			0	0
	390170004	1.122853		1.131793	1.131824		80	78	79	1	0	80	1	0	0			0	0
	390171004	1.136364		1.144645	1.145553		82	82	82	1	0	82	1	0	0			0	0
	390230001	1.152778		1.160458	1.159218		76	74	75	1	0	76	1	0	0			0	0
	390230003	1.133721		1.139053	1.140351		75	75	75	1	0	75	1	0	0			0	0
	390250022	1.121622		1.136045	1.136986		78	75	76.5	1	0	78	1	0	0			0	0
	390271002	1.158038		1.170697	1.170799		79	76	77.5	1	0	79	1	0	0			0	0
	390350034	1.119293		1.125198	1.125926		78	77	77.5	1	0	78	1	0	0			0	0
	390350064	1.112738		1.117917	1.117647		74	72	73	1	0	74	1	0	0			0	0
	390355002	1.114168		1.119382	1.120332		81	77	79	1	0	81	1	0	0			0	0
	390410002	1.163793		1.168657	1.168831		76	75	75.5	1	0	76	1	0	0			0	0
	390490028	1.121751		1.126227	1.126374		74				0			0	0			0	0
	390490029	1.151832		1.155288	1.154856		84	81	82.5	1	0	84	1	0	0			0	0
	390490037	1.114168		1.118384	1.118785		76	73	74.5	1	0	76	1	0	0			0	0
	390490081	1.146132		1.150072	1.149425		74	71	72.5	1	0	74	1	0	0			0	0
	390550004	1.146667		1.152616	1.152815		73	72	72.5	1	0	73	1	0	0			0	0
	390570006	1.152778		1.162084	1.160839		77	74	75.5	1	0	77	1	0	0			0	0
	390610006	1.11399		1.121854	1.121252		85	82	83.5	1	0	85	1	0	0			0	0
	390610010	1.106719		1.11869	1.118509		81	76	78.5	1	0	81	1	0	0			0	0
	390610040	1.100796		1.110054	1.111111		81	80	80.5	1	0	81	1	0	0			0	0
	390810017	1.161103		1.172932	1.173021		77	72	74.5	1	0	77	1	0	0			0	0
	390830002	1.173848		1.179059	1.179104		76	74	75	1	0	76	1	0	0			0	0
	390850003	1.125158		1.131062	1.130877		78	74	76	1	0	78	1	0	0			0	0
	390853002	1.128134		1.135021	1.134454		76	77	76.5	1	0	77	1	0	0			0	0
	390870006	1.135303		1.138486	1.137072		76	73	74.5	1	0	76	1	0	0			0	0
	390870011	1.173469		1.17658	1.175468		74	72	73	1	0	74	1	0	0			0	0
	390890005	1.175617		1.18003	1.179039		74	73	73.5	1	0	74	1	0	0			0	0
	390930018	1.117318		1.124633	1.125176		74	72	73	1	0	74	1	0	0			0	0
	390950024	1.111111		1.11713	1.117479		75	72	73.5	1	0	75	1	0	0			0	0
	390950027	1.102151		1.108417	1.108108		72	72	72	1	0	72	1	0	0			0	0
	390950034	1.11399		1.121379	1.121252		75	74	74.5	1	0	75	1	0	0			0	0
	390950081	1.111111		1.117729	1.118509		76	77	76.5	1	0	77	1	0	0			0	0
	390970007	1.16643		1.172059	1.171429		76	74	75	1	0	76	1	0	0			0	0
	390990013	1.139601		1.150585	1.149425		75	71	73	1	0	75	1	0	0			0	0
	391030003	1.158621		1.165457	1.165049		72	70	71	1	0	72	1	0	0			0	0
	391090005	1.162791		1.169207	1.169591		72	71	71.5	1	0	72	1	0	0			0	0
	391130037	1.148545		1.15625	1.155624						0			0	0			0	0
	391331001	1.145833		1.151307	1.151832		74	72	73	1	0	74	1	0	0			0	0
	391351001	1.157407		1.168	1.166407		71	70	70.5	1	0	71	1	0	0			0	0
	391510016	1.17037		1.176471	1.175595		79	75	77	1	0	79	1	0	0			0	0
	391510022	1.152738		1.160661	1.161103						0			0	0			0	0
	391514005	1.168091		1.173913	1.174785		79	75	77	1	0	79	1	0	0			0	0
	391530020	1.158038		1.1625	1.162791		82	80	81	1	0	82	1	0	0			0	0
	391550009	1.154381		1.162791	1.164095		76	75	75.5	1	0	76	1	0	0			0	0
	391550011	1.139073		1.148501	1.149733		81	76	78.5	1	0	81	1	0	0			0	0
	391650007	1.145431		1.153947	1.154345		85	82	83.5	1	0	85	1	0	0			0	0

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

							Updated DVs												
	Monitor ID	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 85?	Avg DV-2012 base > 85?	Max DV-06-09	Max DV-06-09 <= 85?	Max DV-2012 base > 85?	Max DV-2012 base > 85 AND Avg DV-2012 <=85?	Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	391670004	1.119895		1.143845	1.142473		81	77	79	1	0	81	1	0	0			0	0
	391730003	1.117093		1.123596	1.124661		75	74	74.5	1	0	75	1	0	0			0	0
	400170101	1.109489		1.119293	1.119293		74	71	72.5	1	0	74	1	0	0			0	0
	400219002	1.073446		1.152207	1.153263		73				0			0	0			0	0
	400270049	1.119403		1.135258	1.134644		73	69	71	1	0	73	1	0	0			0	0
	400310647	1.125541		1.1347	1.135371						0			0	0			0	0
	400370144	1.117562		1.151652	1.150972		75	71	73	1	0	75	1	0	0			0	0
	400719010	1.104895		1.152142	1.153285		74				0			0	0			0	0
	400871073	1.125		1.139241	1.139241		70	68	69	1	0	70	1	0	0			0	0
	400979014	1.066127		1.132756	1.133429		72	69	70.5	1	0	72	1	0	0			0	0
	401090033	1.095306		1.10951	1.10951		75	73	74	1	0	75	1	0	0			0	0
	401090096	1.107955		1.128698	1.128799		77	74	75.5	1	0	77	1	0	0			0	0
	401091037	1.132867		1.141227	1.140845		79	75	77	1	0	79	1	0	0			0	0
	401159004	1.092669		1.147059	1.146589		72				0			0	0			0	0
	401210415	1.092814		1.119751	1.119632		71	68	69.5	1	0	71	1	0	0			0	0
	401430137	1.12202		1.150943	1.151079		78	75	76.5	1	0	78	1	0	0			0	0
	401430174	1.104651		1.138462	1.13943		71	67	69	1	0	71	1	0	0			0	0
	401430178	1.092896		1.124823	1.123596		76	72	74	1	0	76	1	0	0			0	0
	401431127	1.111111		1.139053	1.138686		74	71	72.5	1	0	74	1	0	0			0	0
	420010002	1.198157		1.199686	1.2		77	73	75	1	0	77	1	0	0			0	0
	420030008	1.094595		1.101389	1.102041		80	77	78.5	1	0	80	1	0	0			0	0
	420030010	1.095176		1.10174	1.102362		77	74	75.5	1	0	77	1	0	0			0	0
	420030067	1.115646		1.121508	1.121751		77	73	75	1	0	77	1	0	0			0	0
	420031005	1.132813		1.145007	1.144737		86	82	84	1	0	86	0	0	0			0	0
	420050001	1.149111		1.160839	1.161826		80	77	78.5	1	0	80	1	0	0			0	0
	420070002	1.133603		1.143251	1.142857		78	73	75.5	1	0	78	1	0	0			0	0
	420070005	1.129707		1.137733	1.13764		74	71	72.5	1	0	74	1	0	0			0	0
	420070014	1.132931		1.140216	1.139818		73	73	73	1	0	73	1	0	0			0	0
	420110009	1.152738		1.158537	1.157742						0			0	0			0	0
	420130801	1.150972		1.159126	1.159639		72	70	71	1	0	72	1	0	0			0	0
	420170012	1.101796		1.102757	1.101796		92	88	90	0	0	92	0	1	1			0	1
	420210011	1.142433		1.152778	1.152695		70	67	68.5	1	0	70	1	0	0			0	0
	420270100	1.161765		1.166915	1.166913		75	70	72.5	1	0	75	1	0	0			0	0
	420290100	1.177267		1.179698	1.178862		82	77	79.5	1	0	82	1	0	0			0	0
	420334000	1.15493		1.165179	1.164773		73	71	72	1	0	73	1	0	0			0	0
	420430401	1.125		1.134478	1.134454		79	74	76.5	1	0	79	1	0	0			0	0
	420431100	1.12344		1.131241	1.131285		79	74	76.5	1	0	79	1	0	0			0	0
	420450002	1.127321		1.128726	1.128818		83	77	80	1	0	83	1	0	0			0	0
	420490003	1.129252		1.132312	1.132333		78	75	76.5	1	0	78	1	0	0			0	0
	420550001	1.192369		1.195041	1.194268		72	69	70.5	1	0	72	1	0	0			0	0
	420590002	1.106557		1.139601	1.139241		76	72	74	1	0	76	1	0	0			0	0
	420630004	1.151079		1.162791	1.162791		76	73	74.5	1	0	76	1	0	0			0	0
	420690101	1.159196		1.162754	1.162791		72	71	71.5	1	0	72	1	0	0			0	0
	420692006	1.16208		1.165635	1.165644		74	71	72.5	1	0	74	1	0	0			0	0
	420710007	1.152263		1.156944	1.157025		82	77	79.5	1	0	82	1	0	0			0	0
	420730015	1.149606		1.160514	1.160572		71	69	70	1	0	71	1	0	0			0	0
	420770004	1.148649		1.148966	1.148649		80	76	78	1	0	80	1	0	0			0	0
	420791100	1.155063		1.158863	1.15873		67	66	66.5	1	0	67	1	0	0			0	0
	420791101	1.157895		1.161339	1.161388		75	69	72	1	0	75	1	0	0			0	0
	420810100	1.158358		1.162406	1.161765		77	74	75.5	1	0	77	1	0	0			0	0

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

							Updated DVs												
	Monitor ID	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 85?	Avg DV-2012 base > 85?	Max DV-06-09	Max DV-06-09 <= 85?	Max DV-2012 base > 85?	Max DV-2012 base > 85 AND Avg DV-2012 <=85?	Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	420850100	1.13388		1.143654	1.144828		80	77	78.5	1	0	80	1	0	0			0	0
	420910013	1.106821		1.107235	1.106821		84	79	81.5	1	0	84	1	0	0			0	0
	420950025	1.150794		1.151639	1.152318		78	75	76.5	1	0	78	1	0	0			0	0
	420958000	1.156559		1.156069	1.156559		77	73	75	1	0	77	1	0	0			0	0
	420990301	1.147059		1.152695	1.152142		77	72	74.5	1	0	77	1	0	0			0	0
	421010004	1.07425		1.075251	1.07425		67	64	65.5	1	0	67	1	0	0			0	0
	421010014	1.064389		1.064085	1.064389		79	81	80	1	0	81	1	0	0			0	0
	421010024	1.079478		1.080144	1.079478		89	84	86.5	0	1	89	0	1	0			1	1
	421010136	1.098431		1.1	1.1		81	82	81.5	1	0	82	1	0	0			0	0
	421174000	1.162123		1.164918	1.165468		73	70	71.5	1	0	73	1	0	0			0	0
	421250005	1.114206		1.118571	1.118881		75	72	73.5	1	0	75	1	0	0			0	0
	421250200	1.12344		1.128467	1.128134		70	68	69	1	0	70	1	0	0			0	0
	421255001	1.138686		1.147059	1.147059		76	72	74	1	0	76	1	0	0			0	0
	421290006	1.104972		1.113798	1.114206		74	71	72.5	1	0	74	1	0	0			0	0
	421290008	1.120219		1.126961	1.126374		76	72	74	1	0	76	1	0	0			0	0
	421330008	1.143251		1.15007	1.149584		80	77	78.5	1	0	80	1	0	0			0	0
	440030002	1.149733		1.151639	1.151272		80	77	78.5	1	0	80	1	0	0			0	0
	440071010	1.153846		1.154278	1.155433		82	77	79.5	1	0	82	1	0	0			0	0
	440090007	1.143959		1.14514	1.145431		81	77	79	1	0	81	1	0	0			0	0
	450010001	1.196455		1.202435	1.20178		78	72	75	1	0	78	1	0	0			0	0
	450030003	1.201248		1.206349	1.206897		76	75	75.5	1	0	76	1	0	0			0	0
	450070003	1.2		1.204724	1.205564						0			0	0			0	0
	450110001	1.179321		1.183144	1.183144		73	73	73	1	0	73	1	0	0			0	0
	450150002	1.149425		1.158348	1.15894		63	60	61.5	1	0	63	1	0	0			0	0
	450190046	1.139818		1.147287	1.146789		72	67	69.5	1	0	72	1	0	0			0	0
	450210002	1.211632		1.213115	1.213592		74	68	71	1	0	74	1	0	0			0	0
	450230002	1.193093		1.194006	1.194969		73	74	73.5	1	0	74	1	0	0			0	0
	450250001	1.182965		1.186709	1.186709		73	70	71.5	1	0	73	1	0	0			0	0
	450290002	1.147287		1.158654	1.158059		73	67	70	1	0	73	1	0	0			0	0
	450310003	1.180982		1.188474	1.188272		75	71	73	1	0	75	1	0	0			0	0
	450370001	1.204819		1.211073	1.211073		70	69	69.5	1	0	70	1	0	0			0	0
	450730001	1.208267		1.214642	1.214058		71	71	71	1	0	71	1	0	0			0	0
	450770002	1.214393		1.220155	1.21988		80	75	77.5	1	0	80	1	0	0			0	0
	450790007	1.207658		1.214826	1.214815		78	72	75	1	0	78	1	0	0			0	0
	450790021	1.239389		1.244863	1.243612		72	67	69.5	1	0	72	1	0	0			0	0
	450791001	1.208151		1.213864	1.215227		79	75	77	1	0	79	1	0	0			0	0
	450830009	1.199422		1.20146	1.201158		84	78	81	1	0	84	1	0	0			0	0
	450870001	1.186441		1.189358	1.188272		76	76	76	1	0	76	1	0	0			0	0
	450890001	1.151316		1.156928	1.157025		71	71	71	1	0	71	1	0	0			0	0
	450910006	1.189759		1.190994	1.191554		77	72	74.5	1	0	77	1	0	0			0	0
	470010101	1.223242		1.22504	1.225115		77	72	74.5	1	0	77	1	0	0			0	0
	470090101	1.21813		1.222063	1.221591		85	79	82	1	0	85	1	0	0			0	0
	470090102	1.202749		1.208113	1.206897		72	69	70.5	1	0	72	1	0	0			0	0
	470370011	1.174551		1.180412	1.180328		71	67	69	1	0	71	1	0	0			0	0
	470370026	1.180867		1.184451	1.184408		76	70	73	1	0	76	1	0	0			0	0
	470651011	1.197691		1.203008	1.202899		83	75	79	1	0	83	1	0	0			0	0
	470654003	1.194879		1.198225	1.198288		84	79	81.5	1	0	84	1	0	0			0	0
	470890002	1.210375		1.213864	1.213873		81	76	78.5	1	0	81	1	0	0			0	0
	470930021	1.208955		1.210769	1.210762		81	77	79	1	0	81	1	0	0			0	0
	470931020	1.202186		1.203966	1.20383		88	82	85	1	0	88	0	0	0			0	0

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

							Updated DVs												
	Monitor ID	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 85?	Avg DV-2012 base > 85?	Max DV-06-09	Max DV-06-09 <= 85?	Max DV-2012 base > 85?	Max DV-2012 base > 85 AND Avg DV-2012 <=85?	Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	471050109	1.230101		1.231454	1.231884		81	77	79	1	0	81	1	0	0			0	0
	471210104	1.207154		1.210287	1.210762		79	74	76.5	1	0	79	1	0	0			0	0
	471490101	1.208459		1.211111	1.212121		78	74	76	1	0	78	1	0	0			0	0
	471550101	1.200586		1.204268	1.204112		82	79	80.5	1	0	82	1	0	0			0	0
	471550102	1.194245		1.200893	1.199422		84	79	81.5	1	0	84	1	0	0			0	0
	471570021	1.168091		1.173021	1.173104		82	78	80	1	0	82	1	0	0			0	0
	471571004	1.189427		1.195556	1.196455		80	75	77.5	1	0	80	1	0	0			0	0
	471632002	1.109626		1.112188	1.112601		81	76	78.5	1	0	81	1	0	0			0	0
	471632003	1.111111		1.112656	1.112601		80	75	77.5	1	0	80	1	0	0			0	0
	471650007	1.184767		1.189112	1.189802		84	78	81	1	0	84	1	0	0			0	0
	471650101	1.213018		1.219136	1.220238		79	72	75.5	1	0	79	1	0	0			0	0
	471870106	1.208791		1.21256	1.212598		75	72	73.5	1	0	75	1	0	0			0	0
	471890103	1.213018		1.220155	1.220238		80	76	78	1	0	80	1	0	0			0	0
	480290032	1.108214		1.11413	1.115486		76	74	75	1	0	76	1	0	0			0	0
	480290052	1.0971		1.103896	1.102662		78	73	75.5	1	0	78	1	0	0			0	0
	480391004	1.088664		1.093533	1.093574		85	84	84.5	1	1	85	1	1	0	Flag		0	1
	480391016	1.103896		1.10957	1.108214		76	74	75	1	0	76	1	0	0			0	0
	480850005	1.151439		1.154731	1.155779		83	79	81	1	0	83	1	0	0			0	0
	481130069	1.080432		1.084788	1.084337		74				0			1	1			0	1
	481130075	1.100244		1.10375	1.102941		80	81	80.5	1	0	81	1	0	0			0	0
	481130087	1.056423		1.059683	1.060241		82	78	80	1	0	82	1	1	1		Flag	0	0
	481133003	1.106719		1.111898	1.112583						0			0	0			0	0
	481210034	1.175743		1.180905	1.181592		91	85	88	0	0	91	0	0	0			0	0
	481390015	1.152263		1.158865	1.158621		75	72	73.5	1	0	75	1	0	0			0	0
	481410029	1.063536		1.064103	1.063536		77				0			0	0			0	0
	481410037	1.060403		1.061475	1.061828		78	72	75	1	0	78	1	0	0			0	0
	481410044	1.061693		1.061047	1.061693		75	71	73	1	0	75	1	0	0			0	0
	481410055	1.060606		1.061453	1.060606		72	69	70.5	1	0	72	1	0	0			0	0
	481410057	1.070423		1.071429	1.071932		72	71	71.5	1	0	72	1	0	0			0	0
	481410058	1.06383		1.06447	1.06383		72	72	72	1	0	72	1	0	0			0	0
	481670014	1.091593		1.095498	1.095718		61	51	56	1	0	61	1	0	0			0	0
	481830001	1.098191		1.103403	1.102464		78	75	76.5	1	0	78	1	0	0			0	0
	482010024	1.071013		1.074481	1.074766		83	83	83	1	0	83	1	1	1		Flag	0	0
	482010026	1.084044		1.087563	1.08802		80	78	79	1	0	80	1	0	0			0	0
	482010029	1.113772		1.118293	1.117788		85	84	84.5	1	0	85	1	1	1		Flag	0	0
	482010046	1.070496		1.075137	1.074705		75	72	73.5	1	0	75	1	0	0			0	0
	482010047	1.052632		1.05496	1.055409		76	75	75.5	1	0	76	1	0	0			0	0
	482010051	1.074561		1.077636	1.078108		80	76	78	1	1	80	1	1	0	Flag		0	1
	482010055	1.074035		1.078158	1.078534		91	84	87.5	0	1	91	0	1	0			1	1
	482010062	1.074919		1.080135	1.080786		81	71	76	1	1	81	1	1	0	Flag		0	1
	482010066	1.038961		1.041761	1.042345		89	79	84	1	1	89	0	1	0	Flag		0	1
	482010070	1.050119		1.05375	1.053892		74	72	73	1	0	74	1	0	0			0	0
	482010075	1.050119		1.05443	1.053892		76	75	75.5	1	0	76	1	0	0			0	0
	482011015	1.083521		1.08802	1.088435						0			1	1			0	1
	482011034	1.064871		1.069858	1.068796		80	76	78	1	0	80	1	0	0			0	0
	482011035	1.06383		1.069393	1.06982		73	74	73.5	1	0	74	1	1	1		Flag	0	0
	482011039	1.083424		1.088136	1.088139		87	81	84	1	1	87	0	1	0	Flag		0	1
	482011050	1.082353		1.087698	1.08747		80	78	79	1	0	80	1	1	1		Flag	0	0
	482030002	1.152738		1.160059	1.15942		72	68	70	1	0	72	1	0	0			0	0
	482210001	1.196581		1.202899	1.203438		81	77	79	1	0	81	1	0	0			0	0

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

							Updated DVs												
	Monitor ID	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 85?	Avg DV-2012 base > 85?	Max DV-06-09	Max DV-06-09 <= 85?	Max DV-2012 base > 85?	Max DV-2012 base > 85 AND Avg DV-2012 <=85?	Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	482311006	1.149927		1.155556	1.156662		70	66	68	1	0	70	1	0	0			0	0
	482450009	1.103634		1.114598	1.11413		79	74	76.5	1	0	79	1	0	0			0	0
	482450011	1.093117		1.101928	1.102041		76	72	74	1	0	76	1	0	0			0	0
	482450018	1.099476		1.109188	1.109643		81	77	79	1	0	81	1	0	0			0	0
	482450022	1.111111		1.120956	1.120332		76	72	74	1	0	76	1	0	0			0	0
	482450101	1.08508		1.092903	1.093168		77				0			0	0			0	0
	482450628	1.093969		1.101695	1.101695		74	70	72	1	0	74	1	0	0			0	0
	482510003	1.188251		1.195055	1.196237		83	83	83	1	0	83	1	0	0			0	0
	482570005	1.134328		1.140458	1.13943		73	70	71.5	1	0	73	1	0	0			0	0
	483390078	1.125654		1.127321	1.12713		80	71	75.5	1	0	80	1	0	0			0	0
	483550025	1.074499		1.079104	1.079137		71	68	69.5	1	0	71	1	0	0			0	0
	483611001	1.101928		1.114286	1.114206		71	70	70.5	1	0	71	1	0	0			0	0
	483611100	1.107784		1.116208	1.116139		71	70	70.5	1	0	71	1	0	0			0	0
	483670081	1.221477		1.226833	1.226415		84	81	82.5	1	0	84	1	0	0			0	0
	483970001	1.12344		1.130496	1.129707		75	75	75	1	0	75	1	0	0			0	0
	484230007	1.11869		1.12344	1.123288		77	74	75.5	1	0	77	1	0	0			0	0
	484390075	1.177914		1.182382	1.182266		89	86	87.5	0	0	89	0	0	0			0	0
	484391002	1.136364		1.139194	1.139089		83	79	81	1	1	83	1	1	0	Flag		0	1
	484392003	1.158537		1.162531	1.161369		87	86	86.5	0	0	87	0	1	1			0	1
	484393009	1.141104		1.145859	1.14532		87	84	85.5	0	0	87	0	0	0			0	0
	484393011	1.116816		1.121252	1.121134		79	77	78	1	0	79	1	0	0			0	0
	484530014	1.143654		1.149929	1.15007		77	75	76	1	0	77	1	0	0			0	0
	484530020	1.145686		1.154294	1.153846		74	69	71.5	1	0	74	1	0	0			0	0
	484530613	1.12426		1.130952	1.130952						0			0	0			0	0
	500030004	1.164274		1.165049	1.164274		71	71	71	1	0	71	1	0	0			0	0
	500070007	1.130573		1.131494	1.132376		70	69	69.5	1	0	70	1	0	0			0	0
	510130020	1.083437		1.085106	1.086142		85	79	82	1	0	85	1	0	0			0	0
	510330001	1.198225		1.1994	1.2		81	74	77.5	1	0	81	1	0	0			0	0
	510360002	1.15983		1.162084	1.161473		83	77	80	1	0	83	1	0	0			0	0
	510410004	1.161388		1.162121	1.163142		78	74	76	1	0	78	1	0	0			0	0
	510590005	1.146589		1.148094	1.148256		79	73	76	1	0	79	1	0	0			0	0
	510590018	1.107056		1.109741	1.109756		87	80	83.5	1	0	87	0	0	0			0	0
	510590030	1.10559		1.106918	1.106965		85	80	82.5	1	0	85	1	0	0			0	0
	510591005	1.105464		1.107235	1.10687		83	78	80.5	1	0	83	1	0	0			0	0
	510595001	1.106719		1.108108	1.108179		83	77	80	1	0	83	1	0	0			0	0
	510610002	1.210614		1.209651	1.210614		71	66	68.5	1	0	71	1	0	0			0	0
	510690010	1.173633		1.173701	1.173633		73	69	71	1	0	73	1	0	0			0	0
	510850003	1.176471		1.176556	1.176471		80	75	77.5	1	0	80	1	0	0			0	0
	510870014	1.164384		1.16643	1.165981		85	78	81.5	1	0	85	1	0	0			0	0
	511071005	1.143654		1.144681	1.143654		83	77	80	1	0	83	1	0	0			0	0
	511130003	1.181684		1.182648	1.181684		75	73	74	1	0	75	1	0	0			0	0
	511390004	1.176471		1.178344	1.178295		70	66	68	1	0	70	1	0	0			0	0
	511530009	1.161765		1.162482	1.161765		78	71	74.5	1	0	78	1	0	0			0	0
	511611004	1.151515		1.15456	1.155015		74	70	72	1	0	74	1	0	0			0	0
	511630003	1.167763		1.171429	1.171617		66	64	65	1	0	66	1	0	0			0	0
	511790001	1.175657		1.177233	1.177285		81	72	76.5	1	0	81	1	0	0			0	0
	511970002	1.186709		1.189853	1.190476		70	67	68.5	1	0	70	1	0	0			0	0
	515100009	1.106667		1.110054	1.109626		81	75	78	1	0	81	1	0	0			0	0
	516500004	1.087866		1.089489	1.089385		77	78	77.5	1	0	78	1	0	0			0	0
	518000004	1.083333		1.084866	1.08484		76	72	74	1	0	76	1	0	0			0	0

Ozone Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

							Updated DVs												
	Monitor ID	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 85?	Avg DV-2012 base > 85?	Max DV-06-09	Max DV-06-09 <= 85?	Max DV-2012 base > 85?	Max DV-2012 base > 85 AND Avg DV-2012 <=85?	Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	518000005	1.163142		1.165635	1.164902		75	73	74	1	0	75	1	0	0			0	0
	540030003	1.167435		1.168224	1.169231		74	70	72	1	0	74	1	0	0			0	0
	540110006	1.136671		1.138929	1.138211		80	73	76.5	1	0	80	1	0	0			0	0
	540291004	1.154423		1.16641	1.166667		77	74	75.5	1	0	77	1	0	0			0	0
	540390010	1.19697		1.200311	1.198786		78	73	75.5	1	0	78	1	0	0			0	0
	540610003	1.072902		1.102489	1.101695		73	69	71	1	0	73	1	0	0			0	0
	540690010	1.151685		1.172156	1.171429		77	74	75.5	1	0	77	1	0	0			0	0
	541071002	1.145251		1.160059	1.15983		78	72	75	1	0	78	1	0	0			0	0
	550090026	1.117735		1.123476	1.122754		70	70	70	1	0	70	1	0	0			0	0
	550210015	1.133231		1.144882	1.14374		69	67	68	1	0	69	1	0	0			0	0
	550250041	1.12462		1.133858	1.134969		69	68	68.5	1	0	69	1	0	0			0	0
	550270007	1.124088		1.130106	1.129032		68	68	68	1	0	68	1	0	0			0	0
	550290004	1.133501		1.140103	1.139241		80	78	79	1	0	80	1	0	0			0	0
	550370001	1.122112		1.129472	1.129568		65	63	64	1	0	65	1	0	0			0	0
	550390006	1.111111		1.116667	1.116071		67	67	67	1	0	67	1	0	0			0	0
	550410007	1.125198		1.135621	1.136		68	65	66.5	1	0	68	1	0	0			0	0
	550550002	1.125926		1.132622	1.132638		70	69	69.5	1	0	70	1	0	0			0	0
	550590019	1.060419		1.06407	1.063041		78	76	77	1	0	78	1	0	0			0	0
	550610002	1.12713		1.132877	1.13307		75	73	74	1	0	75	1	0	0			0	0
	550710007	1.119691		1.124339	1.124031		75	75	75	1	0	75	1	0	0			0	0
	550790010	1.080247		1.084507	1.085271		63	64	63.5	1	0	64	1	0	0			0	0
	550790026	1.079944		1.084165	1.084507		68	68	68	1	0	68	1	0	0			0	0
	550790041	1.080729		1.085447	1.084967		72	70	71	1	0	72	1	0	0			0	0
	550790044	1.030479		1.033479	1.033479						0			0	0			0	0
	550790085	1.085859		1.089592	1.089987		75	74	74.5	1	0	75	1	0	0			0	0
	550870009	1.117735		1.12462	1.124438		68	67	67.5	1	0	68	1	0	0			0	0
	550890008	1.091142		1.095687	1.095361		72	71	71.5	1	0	72	1	0	0			0	0
	550890009	1.102757		1.107713	1.108312		74	73	73.5	1	0	74	1	0	0			0	0
	551010017	1.073298		1.077852	1.07753		71	71	71	1	0	71	1	0	0			0	0
	551050024	1.132638		1.141975	1.141141		69	69	69	1	0	69	1	0	0			0	0
	551091002	1.099071		1.114701	1.1146		68	66	67	1	0	68	1	0	0			0	0
	551110007	1.130573		1.142623	1.141479		65	64	64.5	1	0	65	1	0	0			0	0
	551170006	1.119497		1.123883	1.125158		82	79	80.5	1	0	82	1	0	0			0	0
	551270005	1.129032		1.134933	1.134021		70	69	69.5	1	0	70	1	0	0			0	0
	551310009	1.107829		1.114022	1.114413		65	65	65	1	0	65	1	0	0			0	0
	551330017	1.114413		1.119403	1.119403						0			0	0			0	0
	551330027	1.114551		1.118936	1.119751		66	63	64.5	1	0	66	1	0	0			0	0
						Counts:	58	11	23	700	11	59	664	26	15	9	5	2	21
							>85	>85	>85										
										23		36							

ALPINE GEOPHYSICS

ENVIRON

Table F-2. Data Supporting Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule; Annual PM Design Values

Annual PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

																RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	010030010	Alabama	Baldwin	11.44	11.75		10.81	11.11		10.46	10.75		9.15	9.40		1.058279	1.057606		1.09369	1.093023
	010270001	Alabama	Clay	13.21	13.32		12.00	12.11		11.32	11.43		9.95	10.06		1.100833	1.099917		1.166961	1.165354
	010331002	Alabama	Colbert	12.67	12.88		12.13	12.33		11.65	11.83		9.68	9.82		1.044518	1.044607		1.087554	1.088757
	010491003	Alabama	DeKalb	14.09	14.42		12.75	13.06		12.14	12.43		10.38	10.63		1.105098	1.104135		1.160626	1.160097
	010530002	Alabama	Escambia	13.12	13.18		12.55	12.61		12.21	12.28		10.94	11.00		1.045418	1.045202		1.074529	1.07329
	010550010	Alabama	Etowah	14.80	15.01		13.45	13.64		12.76	12.94		11.10	11.26		1.100372	1.10044		1.159875	1.159969
	010690003	Alabama	Houston	12.86	12.86		12.10	12.10		11.73	11.73		10.60	10.60		1.06281	1.06281		1.096334	1.096334
	010730023	Alabama	Jefferson	18.48	18.67		17.15	17.32		16.48	16.64		14.95	15.09		1.077551	1.077945		1.121359	1.121995
	010731005	Alabama	Jefferson	15.36	15.60		14.27	14.50		13.67	13.89		12.13	12.33		1.076384	1.075862		1.123628	1.12311
	010731009	Alabama	Jefferson	13.42	13.74		12.58	12.89		12.04	12.33		10.40	10.66		1.066773	1.065943		1.114618	1.114355
	010731010	Alabama	Jefferson	15.76	15.92		14.37	14.53		13.66	13.82		12.04	12.17		1.096729	1.095664		1.153734	1.151954
	010732003	Alabama	Jefferson	17.07	17.45		15.99	16.35		15.42	15.77		13.99	14.31		1.067542	1.067278		1.107004	1.106531
	010732006	Alabama	Jefferson	15.00	15.13		13.90	14.02		13.31	13.42		11.87	11.97		1.079137	1.079173		1.126972	1.127422
	010735002	Alabama	Jefferson	14.33	14.59		13.12	13.36		12.47	12.70		10.94	11.14		1.092226	1.092066		1.149158	1.148819
	010735003	Alabama	Jefferson	14.43	14.58		13.34	13.48		12.69	12.83		10.97	11.09		1.081709	1.081602		1.137116	1.136399
	010890014	Alabama	Madison	13.73	13.85		12.86	12.98		12.26	12.38		10.14	10.25		1.067652	1.067026		1.119902	1.11874
	010970002	Alabama	Mobile	12.90	12.90		12.33	12.33		11.90	11.90		10.59	10.59		1.046229	1.046229		1.084034	1.084034
	010970003	Alabama	Mobile	12.36	12.49		11.80	11.92		11.38	11.50		10.09	10.19		1.047458	1.047819		1.086116	1.086087
	010972005	Alabama	Mobile	11.51	11.92		10.88	11.27		10.51	10.88		9.25	9.57		1.057904	1.057675		1.095147	1.095588
	011010007	Alabama	Montgomery	14.14	14.22		13.27	13.33		12.75	12.80		11.41	11.46		1.065561	1.066767		1.10902	1.110938
	011030011	Alabama	Morgan	13.23	13.47		12.47	12.69		11.91	12.11		9.98	10.14		1.060946	1.061466		1.110831	1.112304
	011130001	Alabama	Russell	15.63	15.83		14.51	14.68		13.83	14.00		12.41	12.55		1.077188	1.078338		1.130152	1.130714
	011170006	Alabama	Shelby	14.28	14.32		13.17	13.21		12.55	12.59		11.03	11.07		1.084282	1.084027		1.137849	1.137411
	011190002	Alabama	Sumter	11.92	11.92		11.33	11.33		10.87	10.87		9.33	9.33		1.052074	1.052074		1.096596	1.096596
	011210002	Alabama	Talladega	14.51	14.51		13.03	13.03		12.38	12.38		10.89	10.89		1.113584	1.113584		1.172052	1.172052
	011250004	Alabama	Tuscaloosa	13.44	13.56		12.63	12.74		12.07	12.18		10.44	10.53		1.064133	1.064364		1.113505	1.1133
	011270002	Alabama	Walker	13.77	14.05		12.90	13.16		12.28	12.53		10.48	10.70		1.067442	1.067629		1.121336	1.121309
	050010011	Arkansas	Arkansas	12.45	12.54		12.24	12.33		11.80	11.89		10.27	10.34		1.017157	1.017032		1.055085	1.054668
	050030005	Arkansas	Ashley	12.83	13.30		12.58	13.04		12.23	12.67		10.99	11.38		1.019873	1.019939		1.04906	1.049724
	050350005	Arkansas	Crittenden	13.27	13.27		12.93	12.93		12.32	12.32		10.33	10.33		1.026295	1.026295		1.07711	1.07711
	050450002	Arkansas	Faulkner	12.79	13.10		12.57	12.87		12.13	12.43		10.75	11.01		1.017502	1.017871		1.054411	1.053902
	050510003	Arkansas	Garland	12.40	12.67		12.12	12.37		11.72	11.98		10.41	10.64		1.023102	1.024252		1.05802	1.057596
	050930007	Arkansas	Mississippi	12.61	12.61		12.51	12.51		12.00	12.00		9.86	9.86		1.007994	1.007994		1.050833	1.050833
	051070001	Arkansas	Phillips	12.08	12.33		11.84	12.08		11.33	11.56		9.58	9.76		1.02027	1.020695		1.066196	1.066609
	051130002	Arkansas	Polk	11.65	12.04		11.26	11.64		10.96	11.33		9.90	10.24		1.034636	1.034364		1.062956	1.062665
	051150003	Arkansas	Pope	12.79	13.14		12.52	12.86		12.14	12.46		10.88	11.18		1.021565	1.021773		1.053542	1.054575
	051190007	Arkansas	Pulaski	13.17	13.27		12.84	12.93		12.37	12.46		10.92	10.99		1.025701	1.026295		1.064673	1.065008
	051191004	Arkansas	Pulaski	14.05	14.23		13.71	13.89		13.24	13.41		11.79	11.94		1.024799	1.024478		1.061178	1.061148
	051191005	Arkansas	Pulaski	13.59	13.62		13.24	13.28		12.78	12.81		11.35	11.38		1.026435	1.025602		1.06338	1.063232
	051390006	Arkansas	Union	12.86	13.09		12.55	12.77		12.19	12.41		10.95	11.15		1.024701	1.025059		1.054963	1.054795
	051450001	Arkansas	White	12.57	12.74		12.40	12.56		11.98	12.15		10.58	10.71		1.01371	1.014331		1.049249	1.04856
	080010006	Colorado	Adams	10.06	10.16		9.63	9.73		9.44	9.54		9.54	9.63		1.044652	1.044193		1.065678	1.06499
	080050005	Colorado	Arapahoe	7.96	8.10		7.64	7.77		7.48	7.61		7.54	7.68		1.041885	1.042471		1.064171	1.064389
	080130003	Colorado	Boulder	8.32	8.54		7.91	8.13		7.80	8.01		7.84	8.05		1.051833	1.050431		1.066667	1.066167
	080130012	Colorado	Boulder	6.96	7.06		6.67	6.77		6.58	6.67		6.62	6.72		1.043478	1.042836		1.057751	1.058471
	080290004	Colorado	Delta	7.44	7.62		6.97	7.14		6.86	7.03		6.86	7.03		1.067432	1.067227		1.084548	1.083926
	080310002	Colorado	Denver	9.37	9.74		8.97	9.32		8.79	9.14		8.89	9.24		1.044593	1.045064		1.065984	1.065646
	080310023	Colorado	Denver	9.76	9.76		9.34	9.34		9.16	9.16		9.25	9.25		1.044968	1.044968		1.065502	1.065502
	080390001	Colorado	Elbert	4.40	4.54		4.23	4.37		4.18	4.32		4.19	4.33		1.040189	1.038902		1.052632	1.050926
	080410008	Colorado	El Paso	6.73	6.73		6.34	6.34		6.24	6.24		6.26	6.27		1.061514	1.061514		1.078526	1.078526
	080410011	Colorado	El Paso	7.94	8.11		7.49	7.65		7.38	7.53		7.41	7.56		1.06008	1.060131		1.075881	1.077025
	080690009	Colorado	Larimer	7.33	7.40		7.02	7.09		6.94	7.00		6.96	7.03		1.04416	1.043724		1.056196	1.057143

Annual PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

																RRFs			
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	080770017	Colorado	Mesa	9.28	9.48		8.78	8.97		8.65	8.84		8.66	8.85		1.056948	1.056856		1.072832	1.072398
	081010012	Colorado	Pueblo	7.45	7.65		7.08	7.28		7.00	7.19		6.99	7.19		1.05226	1.050824		1.064286	1.063978
	081130004	Colorado	San Miguel	4.65	4.81		4.48	4.64		4.46	4.61		4.46	4.61		1.037946	1.036638		1.042601	1.043384
	081230006	Colorado	Weld	8.19	8.35		7.73	7.89		7.62	7.78		7.65	7.80		1.059508	1.058302		1.074803	1.073265
	081230008	Colorado	Weld	8.78	9.28		8.31	8.77		8.19	8.65		8.23	8.69		1.056558	1.058153		1.072039	1.072832
	090010010	Connecticut	Fairfield	13.18	13.18		12.36	12.36		12.18	12.18		11.12	11.12		1.066343	1.066343		1.082102	1.082102
	090011123	Connecticut	Fairfield	12.49	12.59		11.68	11.77		11.50	11.59		10.45	10.53		1.069349	1.069669		1.086087	1.086281
	090013005	Connecticut	Fairfield	12.43	12.72		11.65	11.92		11.48	11.75		10.40	10.62		1.066953	1.067114		1.082753	1.082553
	090019003	Connecticut	Fairfield	11.48	11.73		10.75	10.97		10.59	10.81		9.53	9.72		1.067907	1.06928		1.084042	1.085106
	090031003	Connecticut	Hartford	11.03	11.36		10.28	10.58		10.11	10.40		9.28	9.55		1.072957	1.073724		1.090999	1.092308
	090050005	Connecticut	Litchfield	8.01	8.01		7.47	7.47		7.36	7.36		6.47	6.47		1.072289	1.072289		1.088315	1.088315
	090090026	Connecticut	New Haven	12.12	12.13		11.32	11.33		11.14	11.15		10.12	10.13		1.070671	1.070609		1.087971	1.087892
	090090027	Connecticut	New Haven	12.45	12.57		11.60	11.71		11.41	11.52		10.38	10.48		1.073276	1.073442		1.091148	1.091146
	090091123	Connecticut	New Haven	13.12	13.54		12.26	12.65		12.05	12.44		11.04	11.38		1.070147	1.070356		1.088797	1.088424
	090092008	Connecticut	New Haven	11.17	11.22		10.41	10.45		10.24	10.28		9.25	9.27		1.073007	1.073684		1.09082	1.09144
	090092123	Connecticut	New Haven	12.74	12.91		11.91	12.06		11.72	11.87		10.74	10.87		1.069689	1.070481		1.087031	1.087616
	090113002	Connecticut	New London	10.96	11.33		10.18	10.52		10.03	10.36		9.26	9.56		1.076621	1.076996		1.092722	1.093629
	100010002	Delaware	Kent	12.61	12.84		11.60	11.82		11.47	11.68		9.96	10.16		1.087069	1.086294		1.09939	1.099315
	100010003	Delaware	Kent	12.52	12.66		11.58	11.72		11.43	11.57		9.97	10.10		1.081174	1.080205		1.095363	1.094209
	100031003	Delaware	New Castle	13.73	14.33		12.71	13.26		12.52	13.06		11.02	11.48		1.080252	1.080694		1.096645	1.097243
	100031007	Delaware	New Castle	12.92	13.41		11.83	12.29		11.69	12.15		10.15	10.55		1.092139	1.091131		1.105218	1.103704
	100031012	Delaware	New Castle	13.69	13.88		12.58	12.75		12.42	12.59		10.90	11.05		1.088235	1.088627		1.102254	1.102462
	100032004	Delaware	New Castle	14.87	15.11		13.81	14.03		13.61	13.83		12.08	12.28		1.076756	1.076978		1.092579	1.092552
	100051002	Delaware	Sussex	13.39	13.45		12.25	12.31		12.11	12.16		10.60	10.64		1.093061	1.092608		1.105698	1.106086
	110010041	District Of Columbia	District of Columbia	14.16	14.38		12.96	13.16		12.78	12.98		10.96	11.13		1.092593	1.092705		1.107981	1.107858
	110010042	District Of Columbia	District of Columbia	14.41	14.52		13.14	13.24		12.97	13.07		11.17	11.26		1.096651	1.096677		1.111025	1.110941
	110010043	District Of Columbia	District of Columbia	13.99	14.44		12.80	13.23		12.63	13.05		10.72	11.08		1.092969	1.091459		1.10768	1.106513
	120010023	Florida	Alachua	9.32	9.51		8.49	8.66		8.26	8.42		7.28	7.42		1.097762	1.098152		1.128329	1.129454
	120010024	Florida	Alachua	9.59	9.64		8.75	8.80		8.52	8.57		7.57	7.62		1.096	1.095455		1.125587	1.124854
	120051004	Florida	Bay	11.46	11.69		10.69	10.89		10.39	10.59		9.45	9.62		1.07203	1.073462		1.102984	1.103872
	120090007	Florida	Brevard	8.32	8.64		7.63	7.93		7.46	7.74		6.82	7.08		1.090433	1.089533		1.115282	1.116279
	120111002	Florida	Broward	8.22	8.30		7.77	7.85		7.64	7.72		7.27	7.35		1.057915	1.057325		1.075916	1.07513
	120112004	Florida	Broward	8.18	8.28		7.68	7.77		7.55	7.64		7.17	7.25		1.065104	1.065637		1.083444	1.08377
	120113002	Florida	Broward	8.21	8.21		7.76	7.76		7.63	7.63		7.26	7.26		1.05799	1.05799		1.076016	1.076016
	120170005	Florida	Citrus	9.00	9.14		7.96	8.07		7.77	7.88		6.98	7.09		1.130653	1.13259		1.158301	1.159898
	120310098	Florida	Duval	9.90	9.99		9.14	9.24		8.90	9.00		8.05	8.15		1.083151	1.081169		1.11236	1.11
	120310099	Florida	Duval	10.44	10.53		9.75	9.82		9.52	9.59		8.73	8.79		1.070769	1.072301		1.096639	1.098019
	120330004	Florida	Escambia	11.72	11.91		11.20	11.37		10.94	11.11		9.87	10.02		1.046429	1.047493		1.071298	1.072007
	120570030	Florida	Hillsborough	10.74	10.95		9.50	9.68		9.31	9.49		8.86	9.03		1.130526	1.131198		1.153598	1.153846
	120573002	Florida	Hillsborough	10.52	10.75		9.34	9.55		9.16	9.37		8.74	8.93		1.126338	1.125654		1.148472	1.147279
	120710005	Florida	Lee	8.36	8.41		7.51	7.56		7.39	7.43		6.87	6.91		1.113182	1.112434		1.131258	1.131898
	120730012	Florida	Leon	12.56	12.71		11.56	11.69		11.25	11.38		10.30	10.41		1.086505	1.087254		1.116444	1.116872
	120814012	Florida	Manatee	8.81	8.91		7.61	7.70		7.51	7.59		6.99	7.06		1.157687	1.157143		1.173103	1.173913
	120830003	Florida	Marion	10.11	10.20		9.17	9.25		8.94	9.02		8.13	8.20		1.102508	1.102703		1.130872	1.13082
	120861016	Florida	Miami-Dade	9.45	9.54		8.93	9.01		8.77	8.85		8.40	8.48		1.058231	1.058824		1.077537	1.077966
	120866001	Florida	Miami-Dade	8.14	8.28		7.68	7.81		7.59	7.72		7.21	7.33		1.059896	1.060179		1.072464	1.072539
	120951004	Florida	Orange	9.61	9.76		8.73	8.87		8.46	8.59		7.75	7.87		1.100802	1.100338		1.135934	1.136205
	120952002	Florida	Orange	9.50	9.60		8.60	8.69		8.34	8.43		7.63	7.72		1.104651	1.104718		1.139089	1.13879
	120990009	Florida	Palm Beach	7.84	7.84		7.28	7.28		7.14	7.14		6.71	6.71		1.076923	1.076923		1.098039	1.098039
	120992005	Florida	Palm Beach	7.70	7.81		7.22	7.31		7.08	7.18		6.66	6.75		1.066482	1.068399		1.087571	1.087744
	121030018	Florida	Pinellas	9.82	9.85		8.65	8.67		8.52	8.54		8.03	8.05		1.13526	1.136101		1.152582	1.153396
	121031009	Florida	Pinellas	9.52	9.69		8.39	8.54		8.24	8.38		7.75	7.89		1.134684	1.13466		1.15534	1.156325

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															RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	121056006	Florida	Polk	9.55	9.65		8.48	8.57		8.34	8.43		7.84	7.92		1.126179	1.126021		1.145084	1.144721
	121111002	Florida	St. Lucie	8.34	8.47		7.66	7.78		7.54	7.65		6.96	7.06		1.088773	1.088689		1.106101	1.10719
	121150013	Florida	Sarasota	8.77	8.86		7.69	7.77		7.58	7.67		7.04	7.11		1.140442	1.140283		1.156992	1.15515
	121171002	Florida	Seminole	9.51	9.64		8.62	8.73		8.35	8.46		7.62	7.72		1.103248	1.104238		1.138922	1.13948
	121275002	Florida	Volusia	9.27	9.34		8.47	8.53		8.22	8.28		7.37	7.41		1.094451	1.094959		1.127737	1.128019
	130210007	Georgia	Bibb	16.47	16.78		15.33	15.61		14.52	14.79		13.17	13.41		1.074364	1.074952		1.134298	1.13455
	130210012	Georgia	Bibb	13.87	14.17		12.90	13.18		12.07	12.33		10.78	11.01		1.075194	1.075114		1.14913	1.14923
	130510017	Georgia	Chatham	13.70	13.87		12.79	12.94		12.38	12.52		11.32	11.45		1.071149	1.07187		1.106624	1.107827
	130510091	Georgia	Chatham	13.88	14.11		12.98	13.19		12.55	12.75		11.50	11.68		1.069337	1.06975		1.105976	1.106667
	130590002	Georgia	Clarke	14.90	14.90		13.83	13.83		12.94	12.94		11.51	11.51		1.077368	1.077368		1.151468	1.151468
	130630091	Georgia	Clayton	16.47	16.71		15.07	15.29		14.12	14.32		12.73	12.91		1.0929	1.092871		1.166431	1.166899
	130670003	Georgia	Cobb	16.09	16.19		14.63	14.72		13.86	13.94		12.41	12.49		1.099795	1.099864		1.160895	1.161406
	130670004	Georgia	Cobb	15.36	15.50		13.96	14.08		13.10	13.21		11.69	11.79		1.100287	1.100852		1.172519	1.173354
	130890002	Georgia	DeKalb	15.46	15.66		14.13	14.31		13.16	13.33		11.77	11.93		1.094126	1.09434		1.174772	1.174794
	130892001	Georgia	DeKalb	15.33	15.56		13.97	14.19		13.07	13.28		11.65	11.83		1.097351	1.096547		1.172915	1.171687
	130950007	Georgia	Dougherty	14.35	14.53		13.56	13.73		13.14	13.31		11.83	11.97		1.05826	1.058267		1.092085	1.09166
	131150005	Georgia	Floyd	16.10	16.15		14.61	14.67		14.01	14.06		12.43	12.48		1.101985	1.100886		1.149179	1.148649
	131210032	Georgia	Fulton	15.81	16.02		14.44	14.63		13.48	13.66		12.09	12.25		1.094875	1.09501		1.172849	1.172767
	131210039	Georgia	Fulton	17.43	17.47		16.01	16.04		15.03	15.07		13.65	13.68		1.088695	1.089152		1.159681	1.159257
	131270006	Georgia	Glynn	12.18	12.30		11.38	11.50		11.10	11.21		10.16	10.26		1.070299	1.069565		1.097297	1.097235
	131350002	Georgia	Gwinnett	16.07	16.36		14.72	14.99		13.87	14.12		12.43	12.66		1.091712	1.091394		1.158616	1.15864
	131390003	Georgia	Hall	14.12	14.37		12.97	13.21		12.21	12.44		10.73	10.94		1.088666	1.087812		1.156429	1.155145
	131530001	Georgia	Houston	13.99	14.25		12.95	13.18		12.27	12.49		10.96	11.15		1.080309	1.081184		1.140179	1.140913
	131850003	Georgia	Lowndes	12.49	12.83		11.70	12.01		11.38	11.68		10.45	10.72		1.067521	1.068276		1.09754	1.098459
	132150001	Georgia	Muscogee	14.86	14.98		13.76	13.87		13.10	13.19		11.67	11.76		1.079942	1.080029		1.134351	1.135709
	132150008	Georgia	Muscogee	15.16	15.16		14.07	14.07		13.40	13.40		12.04	12.04		1.07747	1.07747		1.131343	1.131343
	132150011	Georgia	Muscogee	14.07	14.30		13.07	13.28		12.47	12.67		11.18	11.35		1.076511	1.076807		1.128308	1.12865
	132230003	Georgia	Paulding	14.08	14.30		12.58	12.77		11.85	12.03		10.33	10.49		1.119237	1.119812		1.188186	1.188695
	132450005	Georgia	Richmond	15.61	15.82		14.67	14.87		14.10	14.29		12.83	13.00		1.064076	1.063887		1.107092	1.107068
	132450091	Georgia	Richmond	15.68	15.88		14.76	14.95		14.18	14.35		12.89	13.05		1.062331	1.062207		1.105783	1.10662
	132950002	Georgia	Walker	15.49	15.75		14.39	14.63		13.76	13.99		11.81	12.00		1.076442	1.076555		1.125727	1.125804
	133030001	Georgia	Washington	15.14	15.54		14.36	14.73		13.44	13.78		12.13	12.44		1.054318	1.05499		1.126488	1.127721
	133190001	Georgia	Wilkinson	15.23	15.50		14.32	14.57		13.37	13.60		12.05	12.25		1.063547	1.06383		1.139117	1.139706
	170010006	Illinois	Adams	12.50	12.87		12.21	12.57		11.70	12.04		10.56	10.85		1.023751	1.023866		1.068376	1.068937
	170190004	Illinois	Champaign	12.50	12.89		12.25	12.63		11.70	12.07		9.94	10.29		1.020408	1.020586		1.068376	1.067937
	170191001	Illinois	Champaign	12.53	12.92		12.32	12.70		11.75	12.13		9.98	10.38		1.017045	1.017323		1.066383	1.065128
	170310022	Illinois	Cook	15.21	15.55		14.70	15.04		14.22	14.54		13.03	13.33		1.034694	1.03391		1.06962	1.069464
	170310050	Illinois	Cook	14.81	15.22		14.32	14.71		13.82	14.21		12.71	13.08		1.034218	1.03467		1.071635	1.071077
	170310052	Illinois	Cook	15.75	16.02		15.16	15.42		14.64	14.90		13.59	13.85		1.038918	1.038911		1.07582	1.075168
	170310057	Illinois	Cook	15.03	15.34		14.50	14.79		13.98	14.27		12.90	13.19		1.036552	1.037187		1.075107	1.074982
	170310076	Illinois	Cook	14.89	15.18		14.41	14.68		13.87	14.13		12.76	13.02		1.03331	1.03406		1.07354	1.07431
	170312001	Illinois	Cook	14.77	15.14		14.28	14.63		13.80	14.15		12.72	13.05		1.034314	1.03486		1.07029	1.069965
	170313301	Illinois	Cook	15.24	15.59		14.73	15.06		14.20	14.52		13.10	13.41		1.034623	1.035193		1.073239	1.073691
	170314007	Illinois	Cook	12.78	13.15		12.45	12.80		11.92	12.26		10.84	11.16		1.026506	1.027344		1.072148	1.072594
	170314201	Illinois	Cook	12.76	13.18		12.44	12.86		11.91	12.29		10.82	11.15		1.025723	1.024883		1.071369	1.072417
	170316005	Illinois	Cook	15.48	16.07		14.92	15.48		14.40	14.94		13.34	13.85		1.037534	1.038114		1.075	1.075636
	170434002	Illinois	DuPage	13.82	14.01		13.51	13.69		12.95	13.13		11.87	12.03		1.022946	1.023375		1.067181	1.067022
	170831001	Illinois	Jersey	12.89	13.20		13.05	13.37		12.41	12.72		10.62	10.88		0.987739	0.987285		1.038678	1.037736
	170890003	Illinois	Kane	13.32	13.54		12.94	13.15		12.36	12.56		11.25	11.45		1.029366	1.029658		1.07767	1.078025
	170890007	Illinois	Kane	14.34	14.34		13.95	13.95		13.39	13.39		12.31	12.31		1.027957	1.027957		1.070948	1.070948
	170971007	Illinois	Lake	11.81	12.10		11.57	11.86		11.06	11.34		10.01	10.26		1.020743	1.020236		1.067812	1.067019
	171110001	Illinois	McHenry	12.40	12.47		12.08	12.15		11.53	11.59		10.49	10.56		1.02649	1.026337		1.075455	1.075928

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															RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	171132003	Illinois	McLean	12.39	12.39		12.26	12.26		11.61	11.61		10.19	10.19		1.010604	1.010604		1.067183	1.067183
	171150013	Illinois	Macon	13.24	13.57		13.11	13.43		12.50	12.81		10.85	11.13		1.009916	1.010424		1.0592	1.059329
	171191007	Illinois	Madison	16.72	17.01		16.56	16.85		15.90	16.18		14.22	14.48		1.009662	1.009496		1.051572	1.051298
	171192009	Illinois	Madison	14.01	14.66		14.20	14.85		13.57	14.20		11.71	12.25		0.98662	0.987205		1.032424	1.032394
	171193007	Illinois	Madison	14.32	14.45		14.48	14.62		13.87	14.00		12.04	12.14		0.98895	0.988372		1.032444	1.032143
	171430037	Illinois	Peoria	13.34	13.66		13.43	13.76		12.47	12.77		11.28	11.55		0.993299	0.992733		1.069767	1.069695
	171570001	Illinois	Randolph	13.11	13.64		13.07	13.58		12.44	12.94		10.58	11.00		1.00306	1.004418		1.053859	1.054096
	171613002	Illinois	Rock Island	12.01	12.31		11.69	11.99		11.19	11.47		10.16	10.40		1.027374	1.026689		1.07328	1.073235
	171630010	Illinois	Saint Clair	15.58	15.74		15.48	15.63		14.83	14.98		13.18	13.33		1.00646	1.007038		1.050573	1.050734
	171634001	Illinois	Saint Clair	14.29	14.49		14.21	14.41		13.57	13.75		11.92	12.07		1.00563	1.005552		1.053058	1.053818
	171670012	Illinois	Sangamon	13.13	13.29		13.37	13.55		12.79	12.95		11.15	11.26		0.982049	0.980812		1.026583	1.026255
	171971002	Illinois	Will	13.63	14.05		13.33	13.74		12.79	13.19		11.61	11.97		1.022506	1.022562		1.065676	1.065201
	171971011	Illinois	Will	11.52	11.78		11.26	11.51		10.77	11.00		9.45	9.63		1.023091	1.023458		1.069638	1.070909
	172010013	Illinois	Winnebago	13.57	13.57		13.10	13.10		12.61	12.61		11.68	11.68		1.035878	1.035878		1.07613	1.07613
	180030004	Indiana	Allen	13.67	14.08		13.18	13.58		12.81	13.20		11.31	11.67		1.037178	1.036819		1.067135	1.066667
	180030014	Indiana	Allen	13.55	13.91		13.07	13.42		12.70	13.04		11.21	11.52		1.036725	1.036513		1.066929	1.066718
	180190006	Indiana	Clark	16.40	16.60		15.96	16.16		15.46	15.65		12.37	12.49		1.027569	1.027228		1.060802	1.060703
	180350006	Indiana	Delaware	13.66	13.81		13.43	13.58		13.00	13.14		10.65	10.76		1.017126	1.016937		1.050769	1.050989
	180372001	Indiana	Dubois	15.18	15.68		15.07	15.57		14.50	14.98		11.11	11.51		1.007299	1.007065		1.046897	1.046729
	180431004	Indiana	Floyd	14.80	14.94		14.50	14.64		14.04	14.17		10.87	10.99		1.02069	1.020492		1.054131	1.05434
	180650003	Indiana	Henry	13.64	13.64		13.52	13.52		13.08	13.08		10.54	10.54		1.008876	1.008876		1.042813	1.042813
	180670003	Indiana	Howard	13.93	14.29		13.66	14.01		13.18	13.52		11.08	11.39		1.019766	1.019986		1.056904	1.056953
	180830004	Indiana	Knox	14.03	14.21		13.94	14.11		13.33	13.49		10.40	10.50		1.006456	1.007087		1.052513	1.053373
	180890006	Indiana	Lake	14.27	14.51		13.83	14.06		13.35	13.57		12.15	12.36		1.031815	1.032006		1.068914	1.06927
	180890027	Indiana	Lake	13.83	14.13		13.44	13.73		12.97	13.25		11.71	11.97		1.029018	1.029133		1.066307	1.066415
	180891003	Indiana	Lake	14.02	14.25		13.61	13.84		13.15	13.37		11.92	12.13		1.030125	1.029624		1.06616	1.065819
	180892004	Indiana	Lake	14.05	14.41		13.66	14.01		13.19	13.53		11.99	12.31		1.028551	1.028551		1.065201	1.065041
	180892010	Indiana	Lake	13.89	14.10		13.47	13.67		12.99	13.20		11.81	12.01		1.03118	1.031456		1.069284	1.068182
	180910011	Indiana	LaPorte	12.49	12.84		12.03	12.36		11.60	11.93		10.35	10.65		1.038238	1.038835		1.076724	1.076278
	180910012	Indiana	LaPorte	12.69	13.07		12.23	12.60		11.79	12.15		10.48	10.81		1.037612	1.037302		1.076336	1.07572
	180950009	Indiana	Madison	13.96	14.37		13.80	14.21		13.35	13.75		10.86	11.19		1.011594	1.01126		1.045693	1.045091
	180970042	Indiana	Marion	14.24	14.51		14.26	14.53		13.78	14.04		10.88	11.11		0.998597	0.998624		1.033382	1.033476
	180970078	Indiana	Marion	15.26	15.43		15.18	15.35		14.69	14.85		11.85	11.98		1.00527	1.005212		1.038802	1.039057
	180970079	Indiana	Marion	14.71	14.99		14.61	14.89		14.12	14.39		11.36	11.59		1.006845	1.006716		1.041785	1.041696
	180970081	Indiana	Marion	16.05	16.36		15.93	16.24		15.43	15.73		12.60	12.87		1.007533	1.007389		1.040181	1.040051
	180970083	Indiana	Marion	15.90	16.27		15.77	16.15		15.27	15.63		12.44	12.75		1.008244	1.00743		1.041257	1.040947
	181270020	Indiana	Porter	12.66	13.01		12.18	12.52		11.73	12.06		10.47	10.78		1.039409	1.039137		1.079284	1.078773
	181270024	Indiana	Porter	13.21	13.39		12.73	12.91		12.26	12.44		10.99	11.12		1.037706	1.03718		1.077488	1.076367
	181410014	Indiana	St. Joseph	13.28	13.65		12.79	13.14		12.45	12.79		11.39	11.71		1.038311	1.038813		1.066667	1.06724
	181411008	Indiana	St. Joseph	13.69	13.69		13.17	13.17		12.83	12.83		11.79	11.79		1.039484	1.039484		1.06703	1.06703
	181412004	Indiana	St. Joseph	12.82	13.22		12.36	12.74		12.02	12.40		10.98	11.34		1.037217	1.037677		1.066556	1.066129
	181470009	Indiana	Spencer	14.32	14.55		14.21	14.45		13.65	13.87		10.25	10.38		1.007741	1.00692		1.049084	1.049027
	181570008	Indiana	Tippecanoe	13.69	14.06		13.39	13.75		12.87	13.22		10.82	11.13		1.022405	1.022545		1.063714	1.06354
	181630006	Indiana	Vanderburgh	14.69	14.89		14.55	14.75		14.02	14.21		11.39	11.56		1.009622	1.009492		1.047789	1.047854
	181630012	Indiana	Vanderburgh	14.82	15.00		14.64	14.82		14.09	14.27		11.48	11.64		1.012295	1.012146		1.05181	1.051156
	181630016	Indiana	Vanderburgh	14.99	15.14		14.84	14.99		14.30	14.45		11.67	11.80		1.010108	1.010007		1.048252	1.047751
	181670018	Indiana	Vigo	13.99	14.17		13.51	13.68		12.95	13.12		10.49	10.62		1.035529	1.035819		1.080309	1.08003
	181670023	Indiana	Vigo	13.45	13.66		13.04	13.25		12.48	12.68		9.99	10.14		1.031442	1.030943		1.077724	1.077287
	190130008	Iowa	Black Hawk	11.16	11.52		10.68	11.03		10.37	10.71		9.65	9.96		1.044944	1.044424		1.076181	1.07563
	190450021	Iowa	Clinton	12.52	12.63		12.08	12.19		11.57	11.67		10.64	10.72		1.036424	1.036095		1.082109	1.082262
	191032001	Iowa	Johnson	12.08	12.26		11.64	11.81		11.28	11.44		10.43	10.58		1.037801	1.038103		1.070922	1.071678
	191130037	Iowa	Linn	10.79	10.95		10.37	10.52		10.03	10.18		9.25	9.39		1.040501	1.040875		1.075773	1.075639

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															RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	191370002	Iowa	Montgomery	10.02	10.33		9.55	9.85		9.32	9.61		8.65	8.91		1.049215	1.048731		1.075107	1.074922
	191390015	Iowa	Muscatine	12.92	13.29		12.53	12.90		12.15	12.50		11.15	11.47		1.031125	1.030233		1.063374	1.0632
	191471002	Iowa	Palo Alto	9.53	9.53		9.01	9.01		8.80	8.80		8.26	8.26		1.057714	1.057714		1.082955	1.082955
	191530030	Iowa	Polk	10.41	10.54		9.87	10.00		9.59	9.71		8.91	9.03		1.054711	1.054		1.085506	1.085479
	191532510	Iowa	Polk	9.95	10.14		9.44	9.62		9.17	9.34		8.51	8.69		1.054025	1.054054		1.08506	1.085653
	191532520	Iowa	Polk	10.64	10.64		10.08	10.08		9.79	9.79		9.13	9.13		1.055556	1.055556		1.086823	1.086823
	191550009	Iowa	Pottawattamie	11.13	11.52		10.55	10.92		10.36	10.73		9.74	10.07		1.054976	1.054945		1.074324	1.073625
	191630015	Iowa	Scott	11.86	12.06		11.56	11.75		11.06	11.25		10.04	10.21		1.025952	1.026383		1.072333	1.072
	191630018	Iowa	Scott	11.64	11.89		11.35	11.59		10.85	11.08		9.85	10.05		1.025551	1.025884		1.072811	1.073105
	191630019	Iowa	Scott	14.42	14.42		14.00	14.00		13.50	13.50		12.51	12.51		1.03	1.03		1.068148	1.068148
	191770006	Iowa	Van Buren	10.84	10.84		10.46	10.46		10.16	10.16		9.42	9.42		1.036329	1.036329		1.066929	1.066929
	191930017	Iowa	Woodbury	10.32	10.53		9.81	10.01		9.69	9.89		9.18	9.37		1.051988	1.051948		1.065015	1.064712
	191970004	Iowa	Wright	10.37	10.51		9.84	9.97		9.57	9.69		8.92	9.04		1.053862	1.054162		1.083595	1.084623
	200910007	Kansas	Johnson	10.59	10.86		10.09	10.35		9.81	10.05		9.07	9.31		1.049554	1.049275		1.079511	1.080597
	200910009	Kansas	Johnson	11.10	11.10		10.62	10.62		10.30	10.30		9.47	9.47		1.045198	1.045198		1.07767	1.07767
	200910010	Kansas	Johnson	9.68	9.74		9.28	9.34		9.01	9.06		8.26	8.30		1.043103	1.042827		1.074362	1.075055
	201070002	Kansas	Linn	10.47	10.62		10.16	10.31		9.86	10.00		9.01	9.12		1.030512	1.030068		1.061866	1.062
	201730008	Kansas	Sedgwick	10.26	10.85		9.72	10.28		9.49	10.03		8.90	9.42		1.055556	1.055447		1.081138	1.081755
	201730009	Kansas	Sedgwick	10.29	10.95		9.75	10.36		9.51	10.11		8.92	9.48		1.055385	1.05695		1.082019	1.083086
	201730010	Kansas	Sedgwick	10.36	10.96		9.81	10.38		9.57	10.13		8.99	9.51		1.056065	1.055877		1.08255	1.081935
	201770010	Kansas	Shawnee	10.79	10.79		10.27	10.27		10.04	10.04		9.37	9.37		1.050633	1.050633		1.074701	1.074701
	201770011	Kansas	Shawnee	10.93	10.93		10.42	10.42		10.19	10.19		9.53	9.53		1.048944	1.048944		1.07262	1.07262
	201910002	Kansas	Sumner	9.89	10.31		9.44	9.84		9.22	9.61		8.61	8.98		1.047669	1.047764		1.072668	1.072841
	202090021	Kansas	Wyandotte	12.73	13.37		12.09	12.69		11.78	12.36		10.98	11.54		1.052936	1.053586		1.080645	1.081715
	202090022	Kansas	Wyandotte	10.93	11.25		10.41	10.70		10.11	10.41		9.36	9.65		1.049952	1.051402		1.081108	1.080692
	210130002	Kentucky	Bell	14.28	14.64		13.28	13.61		12.70	13.01		10.46	10.70		1.075301	1.07568		1.124409	1.125288
	210190017	Kentucky	Boyd	14.49	14.70		13.54	13.74		12.96	13.15		10.35	10.49		1.070162	1.069869		1.118056	1.117871
	210290006	Kentucky	Bullitt	14.90	15.21		14.58	14.88		14.07	14.36		10.98	11.20		1.021948	1.022177		1.058991	1.059192
	210370003	Kentucky	Campbell	13.67	13.67		13.30	13.30		12.81	12.81		9.86	9.86		1.02782	1.02782		1.067135	1.067135
	210430500	Kentucky	Carter	12.22	12.61		11.38	11.74		10.87	11.21		8.50	8.76		1.073814	1.074106		1.124195	1.124888
	210470006	Kentucky	Christian	13.20	13.55		13.44	13.78		12.90	13.24		9.61	9.84		0.982143	0.983309		1.023256	1.023414
	210590005	Kentucky	Daviess	14.10	14.10		14.14	14.14		13.59	13.59		9.82	9.82		0.997171	0.997171		1.037528	1.037528
	210670012	Kentucky	Fayette	14.33	14.53		13.74	13.93		13.22	13.40		10.36	10.48		1.04294	1.043073		1.083964	1.084328
	210670014	Kentucky	Fayette	14.85	15.13		14.23	14.50		13.70	13.97		10.86	11.10		1.04357	1.043448		1.083942	1.083035
	210730006	Kentucky	Franklin	13.37	13.52		12.88	13.03		12.39	12.53		9.52	9.60		1.038043	1.037606		1.079096	1.07901
	210930006	Kentucky	Hardin	13.58	14.04		13.34	13.79		12.82	13.25		9.68	9.98		1.017991	1.018129		1.059282	1.059623
	211010014	Kentucky	Henderson	13.93	14.28		13.69	14.03		13.17	13.50		10.38	10.63		1.017531	1.017819		1.057707	1.057778
	211110043	Kentucky	Jefferson	15.53	15.75		15.19	15.41		14.71	14.93		11.51	11.69		1.022383	1.022064		1.055744	1.054923
	211110044	Kentucky	Jefferson	15.31	15.47		14.93	15.09		14.45	14.59		11.34	11.43		1.025452	1.025182		1.059516	1.060315
	211110048	Kentucky	Jefferson	15.25	15.32		14.87	14.93		14.38	14.45		11.25	11.30		1.025555	1.026122		1.060501	1.060208
	211110051	Kentucky	Jefferson	14.70	15.17		14.43	14.89		13.95	14.40		10.71	11.05		1.018711	1.018805		1.053763	1.053472
	211170007	Kentucky	Kenton	14.36	14.52		13.98	14.14		13.50	13.65		10.54	10.67		1.027182	1.026874		1.063704	1.063736
	211250004	Kentucky	Laurel	12.55	12.55		11.77	11.77		11.25	11.25		9.01	9.01		1.06627	1.06627		1.115556	1.115556
	211451004	Kentucky	McCracken	13.38	13.84		13.40	13.86		12.79	13.23		10.11	10.41		0.998507	0.998557		1.04613	1.046107
	211510003	Kentucky	Madison	13.61	13.70		12.94	13.03		12.43	12.52		9.69	9.78		1.051777	1.05142		1.094932	1.094249
	211930003	Kentucky	Perry	13.06	13.42		12.18	12.51		11.66	11.97		9.51	9.76		1.07225	1.072742		1.120069	1.121136
	211950002	Kentucky	Pike	13.46	13.89		12.48	12.87		11.94	12.31		9.49	9.79		1.078526	1.079254		1.127303	1.128351
	212270007	Kentucky	Warren	13.83	13.92		13.89	13.97		13.32	13.40		9.93	9.98		0.99568	0.996421		1.038288	1.038806
	220171002	Louisiana	Caddo	12.53	12.53		12.01	12.01		11.68	11.68		10.55	10.55		1.043297	1.043297		1.072774	1.072774
	220190009	Louisiana	Calcasieu	10.58	10.78		10.32	10.52		10.06	10.26		9.16	9.35		1.025194	1.024715		1.05169	1.050682
	220190010	Louisiana	Calcasieu	11.07	11.24		10.83	10.99		10.55	10.71		9.66	9.80		1.022161	1.022748		1.049289	1.049486
	220290003	Louisiana	Concordia	11.42	11.42		11.08	11.08		10.68	10.68		9.37	9.37		1.030686	1.030686		1.069288	1.069288

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																RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	220330009	Louisiana	East Baton Rouge	13.38	13.57		12.85	13.04		12.43	12.60		11.49	11.65		1.041245	1.040644		1.076428	1.076984
	220331001	Louisiana	East Baton Rouge	12.08	12.18		11.62	11.70		11.23	11.31		10.29	10.37		1.039587	1.041026		1.07569	1.076923
	220470005	Louisiana	Iberville	12.90	12.98		12.43	12.50		11.91	11.98		11.00	11.06		1.037812	1.0384		1.083123	1.083472
	220470009	Louisiana	Iberville	11.02	11.16		10.67	10.80		10.29	10.42		9.22	9.33		1.032802	1.033333		1.070943	1.071017
	220511001	Louisiana	Jefferson	11.52	11.68		11.02	11.17		10.65	10.79		9.54	9.67		1.045372	1.045658		1.08169	1.082484
	220550006	Louisiana	Lafayette	11.08	11.18		10.73	10.83		10.42	10.52		9.21	9.30		1.032619	1.032318		1.06334	1.062738
	220730004	Louisiana	Ouachita	11.97	12.21		11.69	11.91		11.34	11.56		10.17	10.36		1.023952	1.025189		1.055556	1.056228
	220790002	Louisiana	Rapides	11.03	11.04		10.75	10.77		10.45	10.47		9.29	9.31		1.026047	1.02507		1.055502	1.054441
	221050001	Louisiana	Tangipahoa	12.03	12.39		11.50	11.85		11.09	11.43		9.89	10.19		1.046087	1.04557		1.084761	1.08399
	221090001	Louisiana	Terrebonne	10.74	10.83		10.37	10.45		10.03	10.11		8.89	8.96		1.03568	1.036364		1.070788	1.071217
	221210001	Louisiana	West Baton Rouge	13.51	13.68		12.98	13.15		12.55	12.72		11.62	11.77		1.040832	1.040304		1.076494	1.075472
	230010011	Maine	Androscoggin	9.90	10.62		9.30	9.98		9.15	9.82		8.83	9.48		1.064516	1.064128		1.081967	1.081466
	230030013	Maine	Aroostook	9.74	10.27		9.53	10.05		9.46	9.98		9.22	9.72		1.022036	1.021891		1.029598	1.029058
	230031011	Maine	Aroostook	8.27	8.92		7.98	8.61		7.90	8.51		7.67	8.27		1.036341	1.036005		1.046835	1.048179
	230050015	Maine	Cumberland	11.06	11.68		10.33	10.91		10.14	10.71		9.80	10.35		1.070668	1.070577		1.09073	1.09057
	230050027	Maine	Cumberland	11.13	11.53		10.40	10.78		10.22	10.59		9.88	10.24		1.070192	1.069573		1.089041	1.088763
	230090103	Maine	Hancock	5.76	6.17		5.39	5.77		5.33	5.71		5.04	5.40		1.068646	1.069324		1.080675	1.08056
	230110016	Maine	Kennebec	9.99	10.70		9.37	10.04		9.23	9.88		8.91	9.54		1.066169	1.065737		1.08234	1.082996
	230172011	Maine	Oxford	10.13	10.38		9.64	9.88		9.51	9.74		9.18	9.40		1.05083	1.050607		1.065195	1.065708
	230190002	Maine	Penobscot	9.12	9.65		8.53	9.03		8.41	8.90		8.05	8.52		1.069168	1.06866		1.084423	1.08427
	240030014	Maryland	Anne Arundel	11.91	11.91		10.78	10.78		10.76	10.76		9.20	9.20		1.104824	1.104824		1.106877	1.106877
	240031003	Maryland	Anne Arundel	14.82	15.26		13.63	14.03		13.73	14.14		12.25	12.61		1.087307	1.087669		1.079388	1.079208
	240032002	Maryland	Anne Arundel	14.57	14.57		13.38	13.38		13.50	13.50		12.02	12.02		1.088939	1.088939		1.079259	1.079259
	240051007	Maryland	Baltimore	13.77	14.04		12.61	12.85		12.56	12.80		10.78	10.98		1.09199	1.092607		1.096338	1.096875
	240053001	Maryland	Baltimore	14.76	15.05		13.50	13.78		13.56	13.83		11.94	12.19		1.093333	1.092163		1.088496	1.088214
	240150003	Maryland	Cecil	12.68	12.82		11.59	11.72		11.45	11.58		9.90	10.00		1.094047	1.093857		1.107424	1.107081
	240251001	Maryland	Harford	12.51	12.62		11.34	11.44		11.34	11.44		9.76	9.85		1.103175	1.103147		1.103175	1.103147
	240313001	Maryland	Montgomery	12.47	12.70		11.41	11.62		11.28	11.49		9.57	9.75		1.092901	1.092943		1.105496	1.105309
	240330030	Maryland	Prince George's	12.24	12.24		11.20	11.20		11.13	11.13		9.53	9.53		1.092857	1.092857		1.09973	1.09973
	240338003	Maryland	Prince George's	13.03	13.23		11.78	11.98		11.70	11.89		10.03	10.21		1.106112	1.104341		1.113675	1.1127
	240430009	Maryland	Washington	13.70	14.14		12.83	13.23		12.56	12.96		10.41	10.74		1.06781	1.068783		1.090764	1.091049
	245100006	Maryland	Baltimore (City)	14.12	14.37		12.92	13.15		12.96	13.19		11.35	11.55		1.092879	1.092776		1.089506	1.089462
	245100007	Maryland	Baltimore (City)	14.38	15.01		13.18	13.74		13.15	13.71		11.46	11.93		1.091047	1.092431		1.093536	1.094821
	245100008	Maryland	Baltimore (City)	15.76	15.87		14.47	14.57		14.57	14.67		12.99	13.08		1.08915	1.089224		1.081675	1.0818
	245100049	Maryland	Baltimore (City)	15.63	15.63		14.36	14.36		14.48	14.48		12.97	12.97		1.08844	1.08844		1.07942	1.07942
	250035001	Massachusetts	Berkshire	10.65	11.15		10.05	10.52		9.90	10.37		9.07	9.51		1.059701	1.059886		1.075758	1.075217
	250051004	Massachusetts	Bristol	9.58	10.16		8.78	9.33		8.71	9.25		8.07	8.57		1.091116	1.08896		1.099885	1.098378
	250092006	Massachusetts	Essex	9.03	9.09		8.31	8.37		8.21	8.27		7.66	7.71		1.086643	1.086022		1.099878	1.099154
	250095005	Massachusetts	Essex	9.10	9.32		8.41	8.60		8.29	8.49		7.77	7.95		1.082045	1.083721		1.097708	1.097762
	250096001	Massachusetts	Essex	9.58	9.74		8.87	9.02		8.74	8.89		8.20	8.34		1.080045	1.079823		1.09611	1.095613
	250130008	Massachusetts	Hampden	9.85	10.14		9.22	9.49		9.08	9.34		8.30	8.54		1.06833	1.068493		1.084802	1.085653
	250130016	Massachusetts	Hampden	12.17	12.52		11.41	11.73		11.22	11.54		10.43	10.73		1.066608	1.067349		1.08467	1.084922
	250132009	Massachusetts	Hampden	11.85	11.90		11.10	11.15		10.92	10.97		10.14	10.18		1.067568	1.067265		1.085165	1.084777
	250230004	Massachusetts	Plymouth	9.87	10.14		9.09	9.34		8.97	9.22		8.34	8.57		1.085809	1.085653		1.100334	1.099783
	250250002	Massachusetts	Suffolk	12.34	13.00		11.48	12.09		11.32	11.92		10.73	11.30		1.074913	1.075269		1.090106	1.090604
	250250027	Massachusetts	Suffolk	11.86	12.27		10.99	11.38		10.84	11.22		10.24	10.61		1.079163	1.078207		1.094096	1.093583
	250250042	Massachusetts	Suffolk	10.88	11.36		10.08	10.53		9.95	10.39		9.36	9.78		1.079365	1.078822		1.093467	1.093359
	250250043	Massachusetts	Suffolk	13.07	13.88		12.16	12.92		11.98	12.73		11.39	12.11		1.074836	1.074303		1.090985	1.090338
	250270016	Massachusetts	Worcester	10.55	10.70		9.80	9.94		9.64	9.78		8.92	9.04		1.076531	1.076459		1.094398	1.09407
	250270023	Massachusetts	Worcester	11.29	11.32		10.50	10.52		10.33	10.35		9.62	9.63		1.075238	1.076046		1.092933	1.09372
	260050003	Michigan	Allegan	11.84	11.99		11.44	11.58		11.01	11.14		9.64	9.74		1.034965	1.035406		1.075386	1.076302
	260170014	Michigan	Bay	10.93	11.05		10.40	10.52		10.06	10.17		8.99	9.08		1.050962	1.05038		1.086481	1.086529

Annual PM Design Values
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																RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	260210014	Michigan	Berrien	11.72	11.91		11.32	11.51		10.92	11.10		9.65	9.78		1.035336	1.034752		1.07326	1.072973
	260490021	Michigan	Genesee	11.61	11.79		11.06	11.24		10.72	10.89		9.43	9.57		1.049729	1.048932		1.083022	1.082645
	260650012	Michigan	Ingham	12.23	12.51		11.68	11.95		11.30	11.56		9.96	10.19		1.047089	1.046862		1.082301	1.08218
	260770008	Michigan	Kalamazoo	12.84	13.06		12.30	12.50		11.92	12.11		10.58	10.76		1.043902	1.0448		1.077181	1.078448
	260810020	Michigan	Kent	12.89	13.09		12.21	12.40		11.80	11.98		10.64	10.80		1.055692	1.055645		1.092373	1.092654
	260990009	Michigan	Macomb	12.70	13.04		12.13	12.46		11.81	12.12		10.43	10.67		1.046991	1.046549		1.07536	1.075908
	261130001	Michigan	Missaukee	8.26	8.36		8.04	8.13		7.78	7.87		7.13	7.21		1.027363	1.02829		1.061697	1.062262
	261150005	Michigan	Monroe	13.92	14.13		13.29	13.50		12.88	13.07		11.13	11.29		1.047404	1.046667		1.080745	1.081102
	261210040	Michigan	Muskegon	11.61	11.70		11.19	11.28		10.79	10.87		9.70	9.75		1.037534	1.037234		1.075996	1.076357
	261250001	Michigan	Oakland	13.78	14.26		13.07	13.53		12.70	13.15		11.29	11.69		1.054323	1.053954		1.085039	1.084411
	261390005	Michigan	Ottawa	12.55	12.67		11.94	12.05		11.53	11.63		10.31	10.39		1.051089	1.051452		1.088465	1.089424
	261450018	Michigan	Saginaw	10.61	10.61		10.11	10.11		9.78	9.78		8.73	8.73		1.049456	1.049456		1.084867	1.084867
	261470005	Michigan	St. Clair	13.34	13.75		12.85	13.25		12.53	12.92		11.15	11.47		1.038132	1.037736		1.064645	1.064241
	261610005	Michigan	Washtenaw	12.30	12.30		11.77	11.77		11.42	11.42		9.97	9.97		1.04503	1.04503		1.077058	1.077058
	261610008	Michigan	Washtenaw	13.88	14.29		13.21	13.60		12.83	13.22		11.42	11.74		1.050719	1.050735		1.081839	1.080938
	261630001	Michigan	Wayne	14.52	15.11		13.72	14.29		13.33	13.88		11.87	12.35		1.058309	1.057383		1.089272	1.088617
	261630015	Michigan	Wayne	15.88	16.40		15.05	15.55		14.64	15.12		13.01	13.42		1.05515	1.054662		1.084699	1.084656
	261630016	Michigan	Wayne	14.57	15.17		13.83	14.40		13.46	14.02		12.01	12.50		1.053507	1.053472		1.082467	1.082026
	261630019	Michigan	Wayne	14.32	14.77		13.64	14.07		13.29	13.71		11.86	12.21		1.049853	1.049751		1.077502	1.077316
	261630025	Michigan	Wayne	13.39	13.88		12.73	13.20		12.35	12.80		10.85	11.21		1.051846	1.051515		1.084211	1.084375
	261630033	Michigan	Wayne	17.50	18.16		16.57	17.19		16.12	16.72		14.43	14.94		1.056126	1.056428		1.085608	1.086124
	261630036	Michigan	Wayne	14.67	15.44		13.92	14.65		13.53	14.23		11.96	12.54		1.053879	1.053925		1.084257	1.085032
	270210001	Minnesota	Cass	5.70	5.80		5.48	5.58		5.40	5.50		5.18	5.28		1.040146	1.039427		1.055556	1.054545
	270370470	Minnesota	Dakota	9.30	9.55		8.86	9.10		8.66	8.89		8.25	8.47		1.049661	1.049451		1.073903	1.074241
	270530050	Minnesota	Hennepin	9.76	9.82		9.28	9.33		9.08	9.13		8.70	8.75		1.051724	1.052519		1.07489	1.075575
	270530961	Minnesota	Hennepin	9.14	9.27		8.69	8.81		8.49	8.61		8.10	8.21		1.051784	1.052213		1.076561	1.076655
	270530963	Minnesota	Hennepin	9.59	9.81		9.10	9.31		8.90	9.10		8.51	8.71		1.053846	1.053706		1.077528	1.078022
	270530965	Minnesota	Hennepin	9.54	9.58		9.06	9.10		8.86	8.90		8.49	8.53		1.05298	1.052747		1.076749	1.076404
	270531007	Minnesota	Hennepin	9.56	9.75		9.08	9.26		8.87	9.05		8.48	8.65		1.052863	1.052916		1.07779	1.077348
	270532006	Minnesota	Hennepin	9.33	9.39		8.87	8.91		8.67	8.71		8.28	8.32		1.05186	1.053872		1.076125	1.078071
	270953051	Minnesota	Mille Lacs	6.54	6.67		6.28	6.41		6.17	6.29		5.92	6.03		1.041401	1.040562		1.059968	1.060413
	271095008	Minnesota	Olmsted	10.13	10.13		9.64	9.64		9.40	9.40		8.84	8.84		1.05083	1.05083		1.07766	1.07766
	271230866	Minnesota	Ramsey	11.32	11.61		10.81	11.09		10.58	10.85		10.20	10.46		1.047179	1.046889		1.069943	1.070046
	271230868	Minnesota	Ramsey	11.02	11.31		10.49	10.77		10.27	10.53		9.91	10.17		1.050524	1.050139		1.073028	1.074074
	271230871	Minnesota	Ramsey	9.63	9.80		9.17	9.33		8.97	9.13		8.61	8.76		1.050164	1.050375		1.073579	1.073384
	271377001	Minnesota	Saint Louis	6.10	6.15		5.93	5.98		5.76	5.81		5.56	5.60		1.028668	1.028428		1.059028	1.05852
	271377550	Minnesota	Saint Louis	6.19	6.25		5.94	6.00		5.80	5.86		5.57	5.63		1.042088	1.041667		1.067241	1.066553
	271377551	Minnesota	Saint Louis	7.51	7.62		7.19	7.29		7.02	7.13		6.79	6.88		1.044506	1.045267		1.069801	1.068724
	271390505	Minnesota	Scott	9.00	9.16		8.57	8.71		8.37	8.51		7.95	8.08		1.050175	1.051665		1.075269	1.076381
	271453052	Minnesota	Stearns	8.58	8.80		8.19	8.40		8.02	8.23		7.69	7.89		1.047619	1.047619		1.069825	1.069259
	280010004	Mississippi	Adams	11.29	11.46		10.93	11.10		10.53	10.69		9.20	9.35		1.032937	1.032432		1.072175	1.07203
	280110001	Mississippi	Bolivar	12.36	12.58		12.13	12.35		11.65	11.86		10.02	10.20		1.018961	1.018623		1.060944	1.060708
	280330002	Mississippi	DeSoto	12.43	12.51		12.06	12.13		11.47	11.54		9.55	9.61		1.03068	1.031327		1.083697	1.084055
	280350004	Mississippi	Forrest	13.62	13.99		12.84	13.19		12.40	12.74		11.00	11.30		1.060748	1.060652		1.098387	1.098116
	280470008	Mississippi	Harrison	12.20	12.34		11.60	11.74		11.23	11.36		10.05	10.17		1.051724	1.051107		1.086376	1.086268
	280490010	Mississippi	Hinds	12.56	12.66		11.98	12.07		11.50	11.59		10.13	10.21		1.048414	1.048882		1.092174	1.092321
	280590006	Mississippi	Jackson	12.04	12.16		11.29	11.41		10.89	11.01		9.72	9.82		1.06643	1.065732		1.105601	1.10445
	280670002	Mississippi	Jones	14.39	14.59		13.55	13.75		13.07	13.25		11.58	11.74		1.061993	1.061091		1.100995	1.101132
	280750003	Mississippi	Lauderdale	13.07	13.09		12.44	12.45		11.92	11.93		10.34	10.35		1.050643	1.051406		1.096477	1.097234
	280810005	Mississippi	Lee	12.57	12.83		12.15	12.40		11.57	11.81		9.65	9.83		1.034568	1.034677		1.08643	1.086367
	280870001	Mississippi	Lowndes	12.79	13.11		12.27	12.57		11.69	11.98		9.95	10.18		1.04238	1.042959		1.094098	1.094324
	281090001	Mississippi	Pearl River	12.14	12.14		11.60	11.60		11.22	11.22		9.99	9.99		1.046552	1.046552		1.081996	1.081996

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																RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	281490004	Mississippi	Warren	12.32	12.32		11.90	11.90		11.43	11.43		10.07	10.07		1.035294	1.035294		1.077865	1.077865
	290190004	Missouri	Boone	11.84	11.84		11.68	11.68		11.22	11.22		10.08	10.08		1.013699	1.013699		1.055258	1.055258
	290210005	Missouri	Buchanan	12.80	12.80		12.28	12.28		12.01	12.01		11.29	11.29		1.042345	1.042345		1.065779	1.065779
	290370003	Missouri	Cass	10.67	10.83		10.25	10.41		9.94	10.09		9.08	9.20		1.040976	1.040346		1.073441	1.07334
	290390001	Missouri	Cedar	11.12	11.12		10.82	10.82		10.51	10.51		9.52	9.52		1.027726	1.027726		1.05804	1.05804
	290470005	Missouri	Clay	11.03	11.25		10.51	10.73		10.23	10.44		9.39	9.56		1.049477	1.048462		1.078201	1.077586
	290770032	Missouri	Greene	11.75	11.87		11.51	11.63		11.12	11.24		9.94	10.05		1.020851	1.020636		1.056655	1.05605
	290950034	Missouri	Jackson	12.78	13.19		12.12	12.50		11.79	12.17		10.99	11.35		1.054455	1.0552		1.083969	1.083813
	290990012	Missouri	Jefferson	13.79	13.97		13.72	13.90		13.15	13.33		11.60	11.77		1.005102	1.005036		1.048669	1.048012
	291370001	Missouri	Monroe	10.87	10.87		10.69	10.69		10.21	10.21		9.02	9.02		1.016838	1.016838		1.064643	1.064643
	291831002	Missouri	Saint Charles	13.29	13.70		13.50	13.92		12.89	13.29		11.03	11.38		0.984444	0.984195		1.031032	1.03085
	291860006	Missouri	Sainte Genevieve	13.34	13.66		13.29	13.60		12.64	12.93		10.94	11.19		1.003762	1.004412		1.05538	1.056458
	291890004	Missouri	Saint Louis	13.04	13.04		13.00	13.00		12.42	12.42		10.85	10.85		1.003077	1.003077		1.049919	1.049919
	291892003	Missouri	Saint Louis	13.46	13.79		13.43	13.76		12.83	13.14		11.19	11.47		1.002234	1.00218		1.049104	1.049467
	295100007	Missouri	St. Louis City	14.27	14.45		14.17	14.34		13.57	13.74		12.00	12.16		1.007057	1.007671		1.051584	1.051674
	295100085	Missouri	St. Louis City	14.36	14.45		14.32	14.40		13.69	13.77		12.04	12.11		1.002793	1.003472		1.048941	1.049383
	295100086	Missouri	St. Louis City	13.44	13.60		13.44	13.61		12.82	12.98		11.18	11.32		1	0.999265		1.048362	1.047766
	295100087	Missouri	St. Louis City	14.56	14.70		14.51	14.65		13.86	14.00		12.20	12.33		1.003446	1.003413		1.050505	1.05
	300870307	Montana	Rosebud	6.58	6.58		6.48	6.48		6.45	6.45		6.47	6.47		1.015432	1.015432		1.020155	1.020155
	301111065	Montana	Yellowstone	8.14	8.18		7.89	7.92		7.84	7.87		7.85	7.88		1.031686	1.032828		1.038265	1.03939
	310250002	Nebraska	Cass	9.99	9.99		9.46	9.46		9.25	9.25		8.64	8.64		1.056025	1.056025		1.08	1.08
	310550019	Nebraska	Douglas	9.88	10.06		9.37	9.55		9.19	9.36		8.56	8.72		1.054429	1.053403		1.075082	1.074786
	310550052	Nebraska	Douglas	9.85	10.18		9.35	9.66		9.15	9.45		8.54	8.83		1.053476	1.05383		1.076503	1.077249
	310790004	Nebraska	Hall	7.95	7.95		7.56	7.56		7.40	7.40		7.00	7.00		1.051587	1.051587		1.074324	1.074324
	311090022	Nebraska	Lancaster	8.90	9.28		8.43	8.79		8.22	8.57		7.67	8.01		1.055753	1.055745		1.082725	1.082847
	311111002	Nebraska	Lincoln	7.57	7.57		7.28	7.28		7.19	7.19		6.97	6.97		1.039835	1.039835		1.052851	1.052851
	311530007	Nebraska	Sarpy	9.79	9.86		9.27	9.34		9.08	9.14		8.45	8.52		1.056095	1.055675		1.078194	1.078775
	311570003	Nebraska	Scotts Bluff	6.04	6.04		5.78	5.78		5.72	5.72		5.68	5.68		1.044983	1.044983		1.055944	1.055944
	311770002	Nebraska	Washington	9.29	9.35		8.85	8.91		8.66	8.72		8.07	8.13		1.049718	1.049383		1.072748	1.072248
	330012004	New Hampshire	Belknap	7.28	7.33		6.76	6.80		6.65	6.69		6.14	6.19		1.076923	1.077941		1.094737	1.095665
	330050007	New Hampshire	Cheshire	11.53	11.61		10.81	10.88		10.63	10.70		9.97	10.03		1.066605	1.067096		1.084666	1.085047
	330070014	New Hampshire	Coos	10.24	10.39		9.81	9.96		9.68	9.83		9.27	9.41		1.043833	1.043173		1.057851	1.056968
	330090010	New Hampshire	Grafton	8.43	8.43		7.94	7.94		7.81	7.81		7.27	7.27		1.061713	1.061713		1.079385	1.079385
	330110020	New Hampshire	Hillsborough	10.18	10.18		9.36	9.36		9.22	9.22		8.64	8.64		1.087607	1.087607		1.104121	1.104121
	330111015	New Hampshire	Hillsborough	10.01	10.01		9.27	9.27		9.13	9.13		8.52	8.52		1.079827	1.079827		1.096386	1.096386
	330115001	New Hampshire	Hillsborough	6.27	6.27		5.78	5.78		5.69	5.69		5.22	5.22		1.084775	1.084775		1.101933	1.101933
	330131006	New Hampshire	Merrimack	9.72	9.73		8.95	8.96		8.80	8.82		8.23	8.24		1.086034	1.085938		1.104545	1.103175
	330150014	New Hampshire	Rockingham	9.00	9.20		8.30	8.48		8.18	8.36		7.74	7.91		1.084337	1.084906		1.100244	1.100478
	330190003	New Hampshire	Sullivan	9.86	10.17		9.27	9.56		9.12	9.40		8.52	8.77		1.063646	1.063808		1.08114	1.081915
	340011006	New Jersey	Atlantic	11.47	11.47		10.73	10.73		10.59	10.59		9.33	9.33		1.068966	1.068966		1.083097	1.083097
	340030003	New Jersey	Bergen	13.09	13.29		12.00	12.17		11.78	11.94		10.72	10.86		1.090833	1.09203		1.111205	1.113065
	340070003	New Jersey	Camden	13.31	13.40		12.32	12.40		12.10	12.18		10.74	10.82		1.080357	1.080645		1.1	1.100164
	340071007	New Jersey	Camden	13.51	13.78		12.48	12.72		12.24	12.48		10.88	11.08		1.082532	1.083333		1.103758	1.104167
	340130015	New Jersey	Essex	13.27	13.29		12.15	12.18		11.90	11.92		10.82	10.84		1.092181	1.091133		1.115126	1.114933
	340155001	New Jersey	Gloucester	13.46	13.46		12.48	12.48		12.25	12.25		10.82	10.82		1.078526	1.078526		1.098776	1.098776
	340171003	New Jersey	Hudson	14.24	14.66		13.15	13.54		12.91	13.28		11.84	12.17		1.08289	1.082718		1.103021	1.103916
	340210008	New Jersey	Mercer	12.71	12.97		11.83	12.05		11.61	11.83		10.29	10.46		1.074387	1.076349		1.094746	1.096365
	340218001	New Jersey	Mercer	11.14	11.66		10.34	10.81		10.14	10.61		8.87	9.26		1.077369	1.078631		1.098619	1.098963
	340230006	New Jersey	Middlesex	12.15	12.52		11.31	11.65		11.10	11.44		9.88	10.17		1.074271	1.074678		1.094595	1.094406
	340270004	New Jersey	Morris	11.50	11.92		10.62	11.00		10.43	10.80		9.24	9.56		1.082863	1.083636		1.102589	1.103704
	340273001	New Jersey	Morris	10.21	10.59		9.49	9.83		9.33	9.67		8.15	8.44		1.075869	1.077314		1.094319	1.09514
	340292002	New Jersey	Ocean	10.92	11.27		10.19	10.51		10.02	10.34		8.85	9.13		1.071639	1.072312		1.08982	1.089942

Annual PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

															RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	340310005	New Jersey	Passaic	12.88	13.09		11.76	11.93		11.53	11.71		10.44	10.57		1.095238	1.097234		1.117086	1.117848
	340390004	New Jersey	Union	14.94	15.53		13.73	14.28		13.43	13.97		12.29	12.79		1.088128	1.087535		1.112435	1.111668
	340390006	New Jersey	Union	13.32	13.64		12.16	12.45		11.90	12.17		10.82	11.06		1.095395	1.095582		1.119328	1.120789
	340392003	New Jersey	Union	13.06	13.32		11.98	12.21		11.72	11.94		10.61	10.80		1.09015	1.090909		1.114334	1.115578
	340410006	New Jersey	Warren	12.72	13.11		11.82	12.17		11.63	11.97		10.21	10.50		1.076142	1.077239		1.093723	1.095238
	350010023	New Mexico	Bernalillo	7.03	7.13		6.59	6.68		6.50	6.59		6.45	6.54		1.066768	1.067365		1.081538	1.081942
	350010024	New Mexico	Bernalillo	6.64	6.81		6.22	6.39		6.13	6.30		6.08	6.25		1.067524	1.065728		1.083197	1.080952
	350050005	New Mexico	Chaves	6.54	6.58		6.29	6.33		6.24	6.28		6.09	6.13		1.039746	1.039494		1.048077	1.047771
	350130017	New Mexico	Dona Ana	9.95	10.40		9.55	9.97		9.50	9.93		9.40	9.82		1.041885	1.043129		1.047368	1.047331
	350130025	New Mexico	Dona Ana	6.31	6.35		6.03	6.07		5.99	6.03		5.88	5.93		1.046434	1.046129		1.053422	1.053068
	350431003	New Mexico	Sandoval	5.00	5.02		4.69	4.71		4.63	4.65		4.58	4.61		1.066098	1.065817		1.079914	1.07957
	350439011	New Mexico	Sandoval	7.99	8.34		7.74	8.08		7.69	8.02		7.65	7.97		1.0323	1.032178		1.039012	1.0399
	350450006	New Mexico	San Juan	5.92	6.08		5.75	5.91		5.73	5.88		5.72	5.87		1.029565	1.028765		1.033159	1.034014
	350490020	New Mexico	Santa Fe	4.76	4.81		4.59	4.64		4.55	4.60		4.52	4.57		1.037037	1.036638		1.046154	1.045652
	360010005	New York	Albany	11.83	11.83		11.29	11.29		11.15	11.15		10.30	10.30		1.04783	1.04783		1.060987	1.060987
	360050080	New York	Bronx	15.43	15.72		14.28	14.55		14.03	14.29		12.96	13.19		1.080532	1.080412		1.099786	1.10007
	360050083	New York	Bronx	13.09	13.35		12.07	12.30		11.85	12.08		10.80	11.00		1.084507	1.085366		1.104641	1.105132
	360050110	New York	Bronx	13.45	14.06		12.44	13.01		12.21	12.77		11.17	11.68		1.08119	1.080707		1.101556	1.101018
	360130011	New York	Chautauqua	9.80	10.09		9.22	9.49		8.99	9.25		7.41	7.61		1.062907	1.063224		1.0901	1.090811
	360290005	New York	Erie	12.62	12.79		11.98	12.15		11.76	11.92		10.38	10.52		1.053422	1.052675		1.073129	1.072987
	360291007	New York	Erie	12.64	13.00		11.99	12.34		11.76	12.11		10.30	10.62		1.054212	1.053485		1.07483	1.073493
	360310003	New York	Essex	5.94	5.98		5.71	5.75		5.62	5.66		4.98	5.02		1.04028	1.04		1.05694	1.056537
	360470122	New York	Kings	14.20	14.64		13.19	13.60		12.95	13.35		11.88	12.25		1.076573	1.076471		1.096525	1.096629
	360551007	New York	Monroe	10.64	10.64		10.17	10.17		9.99	9.99		8.77	8.77		1.046214	1.046214		1.065065	1.065065
	360590008	New York	Nassau	11.66	12.07		10.89	11.27		10.72	11.09		9.74	10.08		1.070707	1.070985		1.087687	1.088368
	360610056	New York	New York	16.18	17.02		14.98	15.74		14.70	15.45		13.56	14.22		1.080107	1.081321		1.10068	1.101618
	360610062	New York	New York	14.80	15.31		13.70	14.16		13.44	13.90		12.34	12.76		1.080292	1.081215		1.10119	1.101439
	360610079	New York	New York	13.61	14.00		12.59	12.95		12.36	12.71		11.31	11.62		1.081017	1.081081		1.101133	1.101495
	360610128	New York	New York	15.41	15.80		14.33	14.68		14.08	14.42		13.00	13.31		1.075366	1.076294		1.09446	1.0957
	360632008	New York	Niagara	11.96	12.29		11.45	11.76		11.23	11.54		9.83	10.09		1.044541	1.045068		1.065004	1.064991
	360671015	New York	Onondaga	10.08	10.46		9.61	9.97		9.46	9.81		8.18	8.47		1.048907	1.049147		1.065539	1.066259
	360710002	New York	Orange	10.99	11.43		10.20	10.60		10.05	10.45		8.98	9.33		1.077451	1.078302		1.093532	1.09378
	360810124	New York	Queens	12.18	12.69		11.30	11.78		11.10	11.57		10.13	10.56		1.077876	1.07725		1.097297	1.096802
	360850055	New York	Richmond	13.31	13.37		12.23	12.29		11.97	12.03		10.90	10.95		1.088307	1.087876		1.111947	1.111388
	360850067	New York	Richmond	11.59	11.82		10.66	10.88		10.44	10.64		9.51	9.70		1.087242	1.086397		1.110153	1.110902
	360893001	New York	St. Lawrence	7.29	7.71		7.06	7.45		6.96	7.35		6.27	6.61		1.032578	1.034899		1.047414	1.04898
	361010003	New York	Steuben	9.00	9.38		8.46	8.81		8.31	8.65		6.91	7.18		1.06383	1.064699		1.083032	1.084393
	361030001	New York	Suffolk	11.52	11.52		10.78	10.78		10.62	10.62		9.58	9.58		1.068646	1.068646		1.084746	1.084746
	361191002	New York	Westchester	11.73	11.94		10.85	11.03		10.67	10.84		9.61	9.76		1.081106	1.082502		1.099344	1.101476
	370010002	North Carolina	Alamance	13.94	14.07		12.39	12.52		12.00	12.13		10.21	10.32		1.125101	1.123802		1.161667	1.159934
	370210034	North Carolina	Buncombe	12.60	12.65		11.32	11.36		10.88	10.92		9.25	9.28		1.113074	1.113556		1.158088	1.158425
	370330001	North Carolina	Caswell	13.19	13.33		11.66	11.78		11.31	11.43		9.49	9.59		1.131218	1.131579		1.166225	1.166229
	370350004	North Carolina	Catawba	15.31	15.37		13.35	13.41		12.90	12.96		11.03	11.08		1.146816	1.14616		1.186822	1.185957
	370370004	North Carolina	Chatham	11.99	12.15		10.72	10.87		10.34	10.48		8.70	8.82		1.11847	1.117755		1.159574	1.159351
	370510009	North Carolina	Cumberland	13.73	13.85		12.62	12.73		12.22	12.33		10.75	10.85		1.087956	1.087981		1.123568	1.123277
	370570002	North Carolina	Davidson	15.17	15.24		13.47	13.53		13.07	13.13		11.17	11.23		1.126206	1.126386		1.160673	1.160701
	370610002	North Carolina	Duplin	11.30	11.54		10.33	10.56		10.04	10.25		8.66	8.85		1.093901	1.092803		1.125498	1.125854
	370630001	North Carolina	Durham	13.57	13.67		12.23	12.32		11.84	11.93		10.16	10.25		1.109567	1.109578		1.146115	1.145851
	370650004	North Carolina	Edgecombe	12.37	12.38		11.40	11.40		11.05	11.05		9.43	9.44		1.085088	1.085965		1.119457	1.120362
	370670022	North Carolina	Forsyth	14.28	14.45		12.48	12.63		12.09	12.23		10.13	10.25		1.144231	1.144101		1.181141	1.181521
	370710016	North Carolina	Gaston	14.26	14.40		12.39	12.51		11.97	12.09		10.31	10.41		1.150928	1.151079		1.191312	1.191067
	370810013	North Carolina	Guilford	13.79	13.79		12.24	12.24		11.87	11.87		10.09	10.09		1.126634	1.126634		1.161752	1.161752

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															RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	370870010	North Carolina	Haywood	12.98	13.00		11.84	11.86		11.39	11.40		10.02	10.04		1.096284	1.096121		1.139596	1.140351
	370990006	North Carolina	Jackson	12.09	12.43		10.97	11.29		10.44	10.74		8.87	9.13		1.102097	1.100974		1.158046	1.157356
	371070004	North Carolina	Lenoir	11.12	11.29		10.21	10.37		9.92	10.08		8.53	8.67		1.089128	1.088717		1.120968	1.12004
	371110004	North Carolina	McDowell	14.24	14.35		12.73	12.83		12.31	12.40		10.58	10.66		1.118617	1.118472		1.156783	1.157258
	371170001	North Carolina	Martin	10.86	11.12		9.95	10.20		9.69	9.93		8.27	8.47		1.091457	1.090196		1.120743	1.119839
	371190010	North Carolina	Mecklenburg	15.31	15.31		13.42	13.42		13.03	13.03		11.42	11.42		1.140835	1.140835		1.174981	1.174981
	371190041	North Carolina	Mecklenburg	14.74	14.94		12.92	13.10		12.52	12.69		10.88	11.04		1.140867	1.140458		1.177316	1.177305
	371190042	North Carolina	Mecklenburg	14.80	14.93		12.98	13.09		12.58	12.68		10.94	11.04		1.140216	1.140565		1.176471	1.177445
	371210001	North Carolina	Mitchell	12.75	13.00		11.34	11.56		10.93	11.14		9.13	9.30		1.124339	1.124567		1.166514	1.166966
	371230001	North Carolina	Montgomery	12.24	12.35		10.95	11.05		10.55	10.64		8.95	9.03		1.117808	1.117647		1.16019	1.160714
	371290002	North Carolina	New Hanover	9.96	10.18		9.20	9.40		8.95	9.15		7.74	7.91		1.082609	1.082979		1.112849	1.112568
	371330005	North Carolina	Onslow	10.98	11.26		10.12	10.39		9.85	10.11		8.49	8.72		1.08498	1.083734		1.114721	1.113749
	371350007	North Carolina	Orange	13.12	13.25		11.77	11.88		11.36	11.47		9.65	9.74		1.114698	1.11532		1.15493	1.155187
	371470005	North Carolina	Pitt	11.59	11.90		10.65	10.94		10.35	10.63		8.89	9.13		1.088263	1.087751		1.119807	1.119473
	371550005	North Carolina	Robeson	12.78	12.79		11.72	11.75		11.40	11.42		9.99	10.01		1.090444	1.088511		1.121053	1.119965
	371590021	North Carolina	Rowan	14.02	14.02		12.48	12.48		12.11	12.11		10.39	10.39		1.123397	1.123397		1.157721	1.157721
	371730002	North Carolina	Swain	12.65	12.82		11.51	11.67		10.94	11.09		9.28	9.41		1.099044	1.098543		1.156307	1.155996
	371830014	North Carolina	Wake	13.54	13.57		12.25	12.29		11.85	11.88		10.20	10.22		1.105306	1.10415		1.142616	1.142256
	371890003	North Carolina	Watauga	12.05	12.06		10.65	10.66		10.24	10.25		8.28	8.30		1.131455	1.131332		1.176758	1.176585
	371910005	North Carolina	Wayne	12.96	13.14		11.99	12.16		11.62	11.78		10.11	10.25		1.080901	1.080592		1.115318	1.11545
	380070002	North Dakota	Billings	4.61	4.68		4.47	4.54		4.45	4.52		4.43	4.50		1.03132	1.030837		1.035955	1.035398
	380130002	North Dakota	Burke	5.90	5.90		5.76	5.76		5.74	5.74		5.72	5.72		1.024306	1.024306		1.027875	1.027875
	380130003	North Dakota	Burke	5.78	5.78		5.62	5.62		5.60	5.60		5.58	5.58		1.02847	1.02847		1.032143	1.032143
	380150003	North Dakota	Burleigh	6.61	6.71		6.21	6.30		6.15	6.24		6.10	6.18		1.064412	1.065079		1.074797	1.075321
	380171004	North Dakota	Cass	7.72	7.75		7.36	7.40		7.25	7.28		7.07	7.10		1.048913	1.047297		1.064828	1.06456
	380530002	North Dakota	McKenzie	5.01	5.09		4.88	4.96		4.85	4.94		4.84	4.92		1.026639	1.02621		1.03299	1.030364
	380570004	North Dakota	Mercer	6.04	6.15		5.97	6.08		5.94	6.05		5.91	6.02		1.011725	1.011513		1.016835	1.016529
	390090003	Ohio	Athens	12.39	12.67		11.40	11.66		10.89	11.15		8.57	8.77		1.086842	1.086621		1.137741	1.136323
	390170016	Ohio	Butler	15.74	16.11		15.25	15.61		14.76	15.12		11.94	12.23		1.032131	1.032031		1.066396	1.065476
	390170017	Ohio	Butler	15.36	15.36		14.93	14.93		14.48	14.48		11.98	11.98		1.028801	1.028801		1.060773	1.060773
	390171004	Ohio	Butler	14.90	15.14		14.51	14.74		14.06	14.29		11.44	11.62		1.026878	1.027137		1.059744	1.059482
	390230005	Ohio	Clark	14.64	14.77		14.08	14.21		13.65	13.78		11.26	11.37		1.039773	1.039409		1.072527	1.071843
	390250022	Ohio	Clermont	14.15	14.15		13.69	13.69		13.20	13.20		10.32	10.32		1.033601	1.033601		1.07197	1.07197
	390350027	Ohio	Cuyahoga	15.46	16.13		14.50	15.13		14.06	14.67		11.85	12.35		1.066207	1.066094		1.099573	1.099523
	390350034	Ohio	Cuyahoga	13.76	14.07		12.93	13.23		12.54	12.82		10.51	10.76		1.064192	1.063492		1.097289	1.097504
	390350038	Ohio	Cuyahoga	17.37	18.10		16.26	16.95		15.79	16.45		13.59	14.17		1.068266	1.067847		1.100063	1.100304
	390350045	Ohio	Cuyahoga	16.47	16.98		15.42	15.91		14.96	15.43		12.74	13.15		1.068093	1.067253		1.100936	1.100454
	390350060	Ohio	Cuyahoga	17.11	17.66		16.02	16.54		15.55	16.06		13.35	13.81		1.06804	1.067715		1.100322	1.099626
	390350065	Ohio	Cuyahoga	15.97	16.44		14.96	15.40		14.51	14.94		12.30	12.65		1.067513	1.067532		1.10062	1.100402
	390351002	Ohio	Cuyahoga	14.14	14.64		13.30	13.77		12.92	13.38		10.92	11.32		1.063158	1.063181		1.094427	1.09417
	390490024	Ohio	Franklin	15.27	15.95		14.33	14.97		13.85	14.47		11.52	12.05		1.065597	1.065464		1.102527	1.102281
	390490025	Ohio	Franklin	15.08	15.45		14.12	14.47		13.64	13.98		11.31	11.59		1.067989	1.067726		1.105572	1.10515
	390490081	Ohio	Franklin	14.33	14.33		13.51	13.51		13.03	13.03		10.69	10.69		1.060696	1.060696		1.09977	1.09977
	390570005	Ohio	Greene	13.36	13.55		12.83	13.02		12.41	12.59		9.98	10.14		1.041309	1.040707		1.076551	1.076251
	390610006	Ohio	Hamilton	14.84	14.84		14.36	14.36		13.88	13.88		11.07	11.07		1.033426	1.033426		1.069164	1.069164
	390610014	Ohio	Hamilton	17.29	17.53		16.69	16.93		16.14	16.37		13.15	13.32		1.03595	1.03544		1.071252	1.070861
	390610040	Ohio	Hamilton	15.50	15.88		15.03	15.40		14.51	14.87		11.48	11.78		1.031271	1.031169		1.068229	1.067922
	390610042	Ohio	Hamilton	16.85	17.25		16.33	16.71		15.80	16.18		12.82	13.14		1.031843	1.032316		1.066456	1.066131
	390610043	Ohio	Hamilton	15.55	15.82		15.05	15.32		14.56	14.82		11.77	12.00		1.033223	1.032637		1.067995	1.067476
	390617001	Ohio	Hamilton	16.17	16.56		15.65	16.03		15.12	15.49		12.13	12.46		1.033227	1.033063		1.069444	1.069077
	390618001	Ohio	Hamilton	17.54	17.90		16.93	17.27		16.38	16.71		13.41	13.68		1.036031	1.036479		1.070818	1.071215
	390810017	Ohio	Jefferson	15.41	15.46		13.95	13.99		13.53	13.58		11.20	11.25		1.104659	1.105075		1.13895	1.138439

Annual PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

															RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	390811001	Ohio	Jefferson	16.51	17.17		14.95	15.54		14.50	15.07		11.96	12.42		1.104348	1.104891		1.138621	1.13935
	390851001	Ohio	Lake	13.02	13.02		12.33	12.33		11.96	11.96		10.03	10.03		1.055961	1.055961		1.088629	1.088629
	390870010	Ohio	Lawrence	15.14	15.44		14.19	14.47		13.63	13.89		11.20	11.41		1.066949	1.067035		1.110785	1.111591
	390930016	Ohio	Lorain	13.87	14.13		13.13	13.37		12.74	12.98		10.64	10.83		1.056359	1.056844		1.088697	1.088598
	390933002	Ohio	Lorain	12.78	12.98		12.12	12.31		11.79	11.98		10.18	10.34		1.054455	1.054427		1.083969	1.083472
	390950024	Ohio	Lucas	14.38	14.68		13.72	14.00		13.29	13.57		11.53	11.78		1.048105	1.048571		1.082017	1.081798
	390950025	Ohio	Lucas	13.95	14.37		13.32	13.72		12.90	13.29		11.11	11.46		1.047297	1.047376		1.081395	1.081264
	390950026	Ohio	Lucas	14.08	14.30		13.48	13.68		13.05	13.26		11.28	11.47		1.04451	1.045322		1.078927	1.078431
	390990005	Ohio	Mahoning	14.68	14.99		13.80	14.10		13.38	13.66		11.30	11.53		1.063768	1.063121		1.09716	1.097365
	390990014	Ohio	Mahoning	15.12	15.53		14.23	14.62		13.79	14.16		11.71	12.04		1.062544	1.062244		1.096447	1.096751
	391130031	Ohio	Montgomery	14.58	14.58		14.09	14.09		13.66	13.66		11.23	11.23		1.034776	1.034776		1.06735	1.06735
	391130032	Ohio	Montgomery	15.54	15.92		15.01	15.37		14.55	14.90		12.07	12.37		1.03531	1.035784		1.068041	1.068456
	391330002	Ohio	Portage	13.37	13.56		12.62	12.79		12.23	12.39		10.19	10.33		1.059429	1.060203		1.093213	1.094431
	391351001	Ohio	Preble	13.70	13.88		13.46	13.64		13.04	13.20		10.37	10.51		1.017831	1.017595		1.050613	1.051515
	391450013	Ohio	Scioto	14.65	14.84		13.68	13.86		13.14	13.31		10.60	10.73		1.070906	1.070707		1.114916	1.114951
	391510017	Ohio	Stark	16.15	16.59		14.99	15.40		14.60	15.00		12.26	12.60		1.077385	1.077273		1.106164	1.106
	391510020	Ohio	Stark	15.14	15.14		14.07	14.07		13.71	13.71		11.73	11.73		1.076048	1.076048		1.104303	1.104303
	391530017	Ohio	Summit	15.17	15.61		14.28	14.71		13.91	14.32		11.91	12.27		1.062325	1.061183		1.090582	1.090084
	391530023	Ohio	Summit	14.26	14.58		13.42	13.73		13.07	13.38		11.13	11.40		1.062593	1.061908		1.091048	1.089686
	391550007	Ohio	Trumbull	14.53	14.73		13.75	13.94		13.32	13.51		11.27	11.44		1.056727	1.056671		1.090841	1.090303
	400159008	Oklahoma	Caddo	9.22	9.77		8.69	9.21		8.57	9.08		8.07	8.54		1.06099	1.060803		1.075846	1.075991
	400219002	Oklahoma	Cherokee	11.79	12.28		11.41	11.88		11.10	11.56		10.16	10.58		1.033304	1.03367		1.062162	1.062284
	400719010	Oklahoma	Kay	10.26	10.62		9.96	10.32		9.76	10.11		9.19	9.52		1.03012	1.02907		1.05123	1.050445
	400819005	Oklahoma	Lincoln	10.28	10.28		9.83	9.83		9.60	9.60		8.91	8.91		1.045778	1.045778		1.070833	1.070833
	400970186	Oklahoma	Mayes	11.70	11.83		11.46	11.59		11.17	11.30		10.33	10.45		1.020942	1.020708		1.047449	1.046903
	400979014	Oklahoma	Mayes	11.44	11.62		11.18	11.36		10.89	11.07		10.03	10.19		1.023256	1.022887		1.050505	1.049684
	401010169	Oklahoma	Muskogee	11.89	12.10		11.61	11.81		11.32	11.52		10.46	10.66		1.024117	1.024555		1.050353	1.050347
	401090035	Oklahoma	Oklahoma	10.07	10.23		9.47	9.62		9.25	9.40		8.65	8.79		1.063358	1.06341		1.088649	1.088298
	401091037	Oklahoma	Oklahoma	9.86	10.07		9.29	9.48		9.07	9.26		8.46	8.64		1.061356	1.062236		1.0871	1.087473
	401159004	Oklahoma	Ottawa	11.69	11.95		11.31	11.56		11.02	11.25		10.12	10.32		1.033599	1.033737		1.060799	1.062222
	401210415	Oklahoma	Pittsburg	11.06	11.28		10.63	10.84		10.37	10.57		9.54	9.72		1.040452	1.04059		1.066538	1.067171
	401359015	Oklahoma	Sequoyah	12.99	12.99		12.56	12.56		12.25	12.25		11.30	11.30		1.034236	1.034236		1.060408	1.060408
	401430110	Oklahoma	Tulsa	11.52	11.52		11.13	11.13		10.86	10.86		10.07	10.07		1.03504	1.03504		1.060773	1.060773
	401431127	Oklahoma	Tulsa	11.37	11.56		10.99	11.17		10.72	10.90		9.96	10.11		1.034577	1.034915		1.060634	1.06055
	420010001	Pennsylvania	Adams	13.05	13.59		12.13	12.64		11.90	12.41		9.83	10.26		1.075845	1.075158		1.096639	1.095085
	420030008	Pennsylvania	Allegheny	15.24	15.48		14.11	14.33		13.70	13.92		11.29	11.49		1.080085	1.080251		1.112409	1.112069
	420030021	Pennsylvania	Allegheny	14.66	14.66		13.65	13.65		13.26	13.26		10.80	10.80		1.073993	1.073993		1.105581	1.105581
	420030064	Pennsylvania	Allegheny	20.31	20.75		18.90	19.31		18.38	18.78		15.88	16.23		1.074603	1.074573		1.105005	1.104899
	420030067	Pennsylvania	Allegheny	12.86	12.94		11.82	11.89		11.45	11.52		9.14	9.19		1.087986	1.08831		1.123144	1.123264
	420030095	Pennsylvania	Allegheny	13.84	14.54		12.77	13.42		12.41	13.04		10.12	10.63		1.08379	1.083458		1.11523	1.115031
	420030116	Pennsylvania	Allegheny	15.36	15.36		14.17	14.17		13.78	13.78		11.50	11.50		1.08398	1.08398		1.114659	1.114659
	420031008	Pennsylvania	Allegheny	15.25	15.49		14.26	14.49		13.89	14.11		11.21	11.40		1.069425	1.069013		1.097912	1.097803
	420031301	Pennsylvania	Allegheny	16.26	16.57		15.13	15.42		14.70	14.98		12.14	12.36		1.074686	1.074578		1.106122	1.106142
	420033007	Pennsylvania	Allegheny	15.30	15.72		14.20	14.59		13.76	14.13		11.14	11.44		1.077465	1.07745		1.111919	1.112527
	420039002	Pennsylvania	Allegheny	14.44	14.44		13.44	13.44		13.06	13.06		10.46	10.46		1.074405	1.074405		1.105666	1.105666
	420070014	Pennsylvania	Beaver	16.38	16.45		15.23	15.30		14.87	14.93		12.65	12.72		1.075509	1.075163		1.101547	1.101808
	420110011	Pennsylvania	Berks	15.82	16.19		14.77	15.11		14.57	14.91		12.78	13.08		1.07109	1.071476		1.085793	1.085848
	420170012	Pennsylvania	Bucks	13.42	13.93		12.45	12.92		12.21	12.66		10.83	11.22		1.077912	1.078173		1.099099	1.100316
	420210011	Pennsylvania	Cambria	15.40	15.55		14.88	15.02		14.53	14.67		11.33	11.41		1.034946	1.035286		1.059876	1.059986
	420270100	Pennsylvania	Centre	12.78	13.42		11.95	12.55		11.70	12.30		9.51	10.02		1.069456	1.069323		1.092308	1.091057
	420290100	Pennsylvania	Chester	15.22	15.22		14.03	14.03		13.84	13.84		12.13	12.13		1.084818	1.084818		1.099711	1.099711
	420410101	Pennsylvania	Cumberland	14.45	15.12		13.48	14.12		13.26	13.89		11.26	11.79		1.071958	1.070822		1.089744	1.088553

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																RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	420430401	Pennsylvania	Dauphin	15.13	15.78		13.98	14.59		13.75	14.35		11.53	12.05		1.08226	1.081563		1.100364	1.099652
	420450002	Pennsylvania	Delaware	15.23	15.69		14.16	14.58		13.91	14.33		12.43	12.80		1.075565	1.076132		1.094896	1.094906
	420490003	Pennsylvania	Erie	12.54	12.57		11.86	11.88		11.54	11.57		9.79	9.81		1.057336	1.058081		1.086655	1.08643
	420692006	Pennsylvania	Lackawanna	11.73	12.17		10.77	11.17		10.60	11.00		9.13	9.47		1.089136	1.089526		1.106604	1.106364
	420710007	Pennsylvania	Lancaster	16.55	17.46		15.18	16.01		14.98	15.79		12.94	13.64		1.09025	1.090568		1.104806	1.105763
	420770004	Pennsylvania	Lehigh	14.50	14.50		13.48	13.48		13.28	13.28		11.81	11.81		1.075668	1.075668		1.091867	1.091867
	420791101	Pennsylvania	Luzerne	12.76	12.76		11.76	11.76		11.59	11.59		10.13	10.13		1.085034	1.085034		1.100949	1.100949
	420850100	Pennsylvania	Mercer	13.28	13.74		12.51	12.94		12.11	12.52		10.08	10.43		1.061551	1.061824		1.096614	1.097444
	420950025	Pennsylvania	Northampton	13.68	14.07		12.69	13.06		12.48	12.85		11.05	11.38		1.078014	1.077335		1.096154	1.094942
	420990301	Pennsylvania	Perry	12.81	12.81		11.98	11.98		11.78	11.78		9.97	9.97		1.069282	1.069282		1.087436	1.087436
	421010047	Pennsylvania	Philadelphia	15.19	15.19		14.10	14.10		13.82	13.82		12.46	12.46		1.077305	1.077305		1.099132	1.099132
	421250005	Pennsylvania	Washington	15.17	15.48		14.10	14.39		13.63	13.91		10.89	11.12		1.075887	1.075747		1.112986	1.112868
	421250200	Pennsylvania	Washington	14.92	14.92		13.74	13.74		13.29	13.29		10.61	10.61		1.085881	1.085881		1.122649	1.122649
	421255001	Pennsylvania	Washington	13.37	13.61		12.21	12.44		11.87	12.09		9.78	9.97		1.095004	1.094051		1.126369	1.125724
	421290008	Pennsylvania	Westmoreland	15.49	15.68		14.49	14.67		14.05	14.23		11.13	11.28		1.069013	1.068848		1.102491	1.101897
	421330008	Pennsylvania	York	16.52	17.25		15.25	15.93		15.06	15.73		12.86	13.43		1.083279	1.082863		1.096946	1.096631
	440070022	Rhode Island	Providence	10.07	10.07		9.34	9.34		9.22	9.22		8.59	8.59		1.078158	1.078158		1.092191	1.092191
	440070026	Rhode Island	Providence	12.14	12.41		11.29	11.54		11.13	11.38		10.47	10.70		1.075288	1.07539		1.090746	1.09051
	440070028	Rhode Island	Providence	10.82	11.10		10.06	10.32		9.92	10.19		9.28	9.53		1.075547	1.075581		1.090726	1.089303
	440071010	Rhode Island	Providence	9.93	10.23		9.20	9.48		9.08	9.35		8.43	8.68		1.079348	1.079114		1.093612	1.094118
	450130007	South Carolina	Beaufort	11.52	11.71		10.66	10.84		10.29	10.47		9.13	9.28		1.080675	1.080258		1.119534	1.118434
	450190048	South Carolina	Charleston	12.21	12.48		11.26	11.51		10.92	11.17		9.80	10.02		1.084369	1.084275		1.118132	1.117278
	450190049	South Carolina	Charleston	11.60	11.83		10.79	11.00		10.44	10.65		9.25	9.43		1.07507	1.075455		1.111111	1.110798
	450250001	South Carolina	Chesterfield	12.53	12.75		11.49	11.69		11.11	11.30		9.73	9.89		1.090513	1.090676		1.127813	1.128319
	450370001	South Carolina	Edgefield	13.14	13.38		12.24	12.47		11.70	11.91		10.41	10.60		1.073529	1.072975		1.123077	1.123426
	450410002	South Carolina	Florence	12.62	12.73		11.60	11.69		11.24	11.34		9.91	9.99		1.087931	1.088965		1.122776	1.122575
	450430009	South Carolina	Georgetown	12.85	12.90		11.74	11.78		11.45	11.49		10.30	10.34		1.094549	1.095076		1.122271	1.122715
	450450008	South Carolina	Greenville	15.65	15.92		14.09	14.34		13.55	13.79		12.02	12.23		1.110717	1.110181		1.154982	1.15446
	450450009	South Carolina	Greenville	14.66	14.82		13.16	13.30		12.63	12.77		11.07	11.20		1.113982	1.114286		1.160728	1.160532
	450470003	South Carolina	Greenwood	13.53	13.70		12.41	12.56		11.73	11.87		10.27	10.39		1.09025	1.090764		1.153453	1.15417
	450510002	South Carolina	Horry	12.00	12.16		11.03	11.17		10.71	10.85		9.49	9.61		1.087942	1.08863		1.120448	1.120737
	450630008	South Carolina	Lexington	14.64	15.07		13.49	13.88		12.97	13.35		11.63	11.97		1.085248	1.085735		1.128759	1.128839
	450730001	South Carolina	Oconee	10.95	11.24		9.80	10.06		9.28	9.53		7.83	8.03		1.117347	1.117296		1.179957	1.179433
	450790007	South Carolina	Richland	13.56	13.79		12.44	12.65		11.95	12.15		10.58	10.76		1.090032	1.090119		1.134728	1.134979
	450790019	South Carolina	Richland	14.24	14.45		13.09	13.30		12.59	12.79		11.24	11.42		1.087853	1.086466		1.131056	1.129789
	450830010	South Carolina	Spartanburg	14.17	14.33		12.62	12.76		12.14	12.28		10.58	10.70		1.122821	1.123041		1.167216	1.166938
	460110002	South Dakota	Brookings	9.37	9.77		8.91	9.28		8.76	9.12		8.41	8.76		1.051627	1.052802		1.069635	1.071272
	460130003	South Dakota	Brown	8.42	8.48		8.01	8.07		7.90	7.96		7.71	7.77		1.051186	1.050805		1.065823	1.065327
	460290002	South Dakota	Codington	10.14	10.34		9.67	9.86		9.54	9.72		9.29	9.47		1.048604	1.048682		1.062893	1.063786
	460330132	South Dakota	Custer	5.64	5.64		5.48	5.48		5.45	5.45		5.43	5.43		1.029197	1.029197		1.034862	1.034862
	460710001	South Dakota	Jackson	5.39	5.45		5.24	5.29		5.21	5.26		5.14	5.20		1.028626	1.030246		1.034549	1.036122
	460990006	South Dakota	Minnehaha	10.18	10.39		9.63	9.82		9.44	9.63		9.03	9.22		1.057113	1.058045		1.07839	1.07892
	460990007	South Dakota	Minnehaha	9.58	9.82		9.07	9.28		8.89	9.10		8.48	8.68		1.056229	1.05819		1.077615	1.079121
	461030016	South Dakota	Pennington	7.48	7.59		7.09	7.19		7.04	7.14		7.02	7.12		1.055007	1.055633		1.0625	1.063025
	461030020	South Dakota	Pennington	8.77	8.83		8.34	8.40		8.29	8.34		8.27	8.32		1.051559	1.05119		1.057901	1.058753
	461031001	South Dakota	Pennington	7.32	7.35		6.95	6.98		6.91	6.94		6.89	6.92		1.053237	1.053009		1.059334	1.059078
	470090011	Tennessee	Blount	14.30	14.71		13.20	13.57		12.64	12.99		10.80	11.09		1.083333	1.084009		1.131329	1.13241
	470370023	Tennessee	Davidson	14.18	14.27		14.02	14.11		13.45	13.53		10.73	10.79		1.011412	1.011339		1.054275	1.054693
	470370025	Tennessee	Davidson	13.92	14.04		13.71	13.83		13.13	13.24		10.42	10.50		1.015317	1.015184		1.060168	1.060423
	470370036	Tennessee	Davidson	12.97	12.98		12.82	12.82		12.24	12.25		9.53	9.55		1.0117	1.01248		1.059641	1.059592
	470450004	Tennessee	Dyer	12.28	12.57		12.22	12.51		11.68	11.95		9.25	9.44		1.00491	1.004796		1.05137	1.051883
	470650031	Tennessee	Hamilton	15.48	16.05		14.36	14.89		13.72	14.23		11.75	12.17		1.077994	1.077905		1.12828	1.127899

Annual PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

															RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	470651011	Tennessee	Hamilton	13.62	13.78		12.63	12.77		12.01	12.15		9.89	9.99		1.078385	1.079092		1.134055	1.134156
	470654002	Tennessee	Hamilton	15.07	15.21		13.98	14.09		13.34	13.45		11.26	11.35		1.077969	1.079489		1.129685	1.130855
	470930028	Tennessee	Knox	15.47	15.74		14.18	14.42		13.57	13.81		11.59	11.79		1.090973	1.09154		1.140015	1.139754
	470931017	Tennessee	Knox	15.64	15.71		14.37	14.43		13.76	13.81		11.79	11.82		1.088379	1.088704		1.136628	1.137581
	470931020	Tennessee	Knox	15.18	15.26		13.92	13.99		13.30	13.37		11.28	11.33		1.090517	1.090779		1.141353	1.141361
	470990002	Tennessee	Lawrence	11.69	12.13		11.32	11.75		10.87	11.28		8.84	9.17		1.032686	1.03234		1.075437	1.075355
	471050108	Tennessee	Loudon	15.49	15.72		14.26	14.47		13.69	13.89		11.80	11.97		1.086255	1.086386		1.131483	1.131749
	471071002	Tennessee	McMinn	14.29	14.70		13.22	13.61		12.64	13.01		10.69	11.00		1.080938	1.080088		1.130538	1.1299
	471192007	Tennessee	Maury	13.21	13.51		12.94	13.23		12.41	12.69		10.00	10.21		1.020866	1.021164		1.064464	1.064618
	471251009	Tennessee	Montgomery	13.79	13.89		14.17	14.27		13.59	13.68		10.30	10.38		0.973183	0.973371		1.014717	1.015351
	471410001	Tennessee	Putnam	13.37	13.37		12.76	12.76		12.20	12.20		9.74	9.74		1.047806	1.047806		1.095902	1.095902
	471450004	Tennessee	Roane	14.49	14.77		13.32	13.58		12.75	13.01		10.74	10.95		1.087838	1.087629		1.136471	1.135281
	471570014	Tennessee	Shelby	13.71	13.79		13.27	13.35		12.63	12.70		10.57	10.65		1.033157	1.032959		1.085511	1.085827
	471570038	Tennessee	Shelby	13.43	13.57		13.00	13.14		12.36	12.49		10.31	10.39		1.033077	1.032725		1.08657	1.086469
	471570047	Tennessee	Shelby	13.68	13.79		13.26	13.37		12.60	12.71		10.49	10.60		1.031674	1.031414		1.085714	1.084972
	471571004	Tennessee	Shelby	12.04	12.08		11.75	11.79		11.16	11.20		9.10	9.15		1.024681	1.024597		1.078853	1.078571
	471631007	Tennessee	Sullivan	14.16	14.46		12.95	13.23		12.47	12.74		10.44	10.66		1.093436	1.092971		1.135525	1.135008
	471650007	Tennessee	Sumner	13.68	13.83		13.76	13.91		13.13	13.27		9.79	9.88		0.994186	0.994249		1.041889	1.0422
	480370004	Texas	Bowie	12.85	12.95		12.30	12.39		12.03	12.11		10.93	11.00		1.044715	1.045198		1.068163	1.069364
	481130069	Texas	Dallas	11.80	12.26		10.86	11.29		10.66	11.08		10.05	10.45		1.086556	1.085917		1.106942	1.106498
	481130087	Texas	Dallas	11.15	11.61		10.21	10.63		10.02	10.43		9.40	9.79		1.092067	1.092192		1.112774	1.113135
	481350003	Texas	Ector	7.78	7.99		7.44	7.64		7.38	7.57		7.12	7.31		1.045699	1.045812		1.054201	1.055482
	481410037	Texas	El Paso	9.09	9.09		8.71	8.71		8.66	8.66		8.56	8.56		1.043628	1.043628		1.049654	1.049654
	482010058	Texas	Harris	11.77	12.39		11.24	11.84		10.96	11.54		10.24	10.78		1.047153	1.046453		1.073905	1.073657
	482011035	Texas	Harris	15.42	15.84		14.74	15.14		14.36	14.75		13.69	14.06		1.046133	1.046235		1.073816	1.073898
	482030002	Texas	Harrison	11.69	11.79		11.05	11.14		10.82	10.90		9.72	9.80		1.057919	1.058348		1.080407	1.081651
	482150043	Texas	Hidalgo	10.98	11.16		10.61	10.78		10.47	10.64		9.90	10.07		1.034873	1.03525		1.048711	1.048872
	482450021	Texas	Jefferson	11.51	11.55		11.23	11.26		10.91	10.95		10.00	10.03		1.024933	1.025755		1.054995	1.054795
	483550032	Texas	Nueces	10.42	10.87		9.99	10.42		9.66	10.08		8.90	9.29		1.043043	1.043186		1.078675	1.078373
	483611001	Texas	Orange	11.51	11.72		11.19	11.40		10.92	11.12		9.97	10.16		1.028597	1.02807		1.054029	1.053957
	484391002	Texas	Tarrant	11.41	11.79		10.51	10.86		10.31	10.66		9.70	10.03		1.085633	1.085635		1.106693	1.106004
	484391006	Texas	Tarrant	12.23	12.81		11.28	11.81		11.07	11.60		10.46	10.96		1.08422	1.084674		1.104788	1.10431
	500010002	Vermont	Addison	8.94	8.94		8.57	8.57		8.46	8.46		7.84	7.84		1.043174	1.043174		1.056738	1.056738
	500010003	Vermont	Addison	8.91	8.91		8.54	8.54		8.43	8.43		7.82	7.82		1.043326	1.043326		1.05694	1.05694
	500030004	Vermont	Bennington	8.52	9.00		8.10	8.55		7.99	8.43		7.29	7.69		1.051852	1.052632		1.066333	1.067616
	500070012	Vermont	Chittenden	9.27	9.56		8.89	9.17		8.75	9.03		8.15	8.41		1.042745	1.04253		1.059429	1.058693
	500070014	Vermont	Chittenden	10.02	10.02		9.61	9.61		9.46	9.46		8.84	8.84		1.042664	1.042664		1.059197	1.059197
	500210002	Vermont	Rutland	11.08	11.13		10.58	10.63		10.43	10.48		9.82	9.86		1.047259	1.047037		1.06232	1.062023
	510130020	Virginia	Arlington	14.27	14.62		13.07	13.40		12.87	13.20		11.01	11.30		1.091813	1.091045		1.10878	1.107576
	510360002	Virginia	Charles	12.37	12.48		10.97	11.08		10.69	10.79		9.08	9.17		1.127621	1.126354		1.157156	1.156627
	510410003	Virginia	Chesterfield	13.44	13.59		11.93	12.07		11.60	11.74		9.88	10.00		1.126572	1.125932		1.158621	1.157581
	510590030	Virginia	Fairfax	13.33	13.59		12.18	12.43		11.97	12.22		10.15	10.37		1.094417	1.093323		1.113617	1.112111
	510591005	Virginia	Fairfax	13.62	13.77		12.48	12.63		12.26	12.41		10.41	10.54		1.091346	1.090261		1.11093	1.109589
	510595001	Virginia	Fairfax	13.88	14.12		12.79	13.02		12.56	12.79		10.70	10.90		1.085223	1.084485		1.105096	1.103987
	510870014	Virginia	Henrico	13.51	13.83		11.98	12.27		11.66	11.94		9.91	10.15		1.127713	1.127139		1.158662	1.158291
	510870015	Virginia	Henrico	12.93	12.99		11.64	11.70		11.30	11.36		9.45	9.50		1.110825	1.110256		1.144248	1.143486
	511071005	Virginia	Loudoun	13.57	13.90		12.52	12.82		12.27	12.56		10.38	10.62		1.083866	1.084243		1.105949	1.106688
	511390004	Virginia	Page	12.79	12.85		11.76	11.80		11.40	11.44		9.19	9.21		1.087585	1.088983		1.12193	1.123252
	515200006	Virginia	Bristol City	13.93	14.00		12.61	12.66		12.09	12.14		9.95	9.99		1.104679	1.105845		1.152192	1.153213
	516500004	Virginia	Hampton City	12.17	12.35		11.18	11.35		10.90	11.07		9.34	9.49		1.088551	1.088106		1.116514	1.115628
	516800015	Virginia	Lynchburg City	12.84	13.00		11.60	11.74		11.22	11.36		9.31	9.42		1.106897	1.107325		1.144385	1.144366
	517100024	Virginia	Norfolk City	12.78	13.01		11.81	12.02		11.52	11.73		9.93	10.11		1.082134	1.082363		1.109375	1.109122

Annual PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

																RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	517700014	Virginia	Roanoke City	14.27	14.48		12.97	13.17		12.50	12.70		10.40	10.57		1.100231	1.099468		1.1416	1.140157
	517750010	Virginia	Salem City	14.69	14.69		13.42	13.42		12.96	12.96		10.91	10.91		1.094635	1.094635		1.133488	1.133488
	518100008	Virginia	Virginia Beach City	12.40	12.57		11.46	11.62		11.19	11.35		9.62	9.76		1.082024	1.081756		1.108132	1.107489
	540030003	West Virginia	Berkeley	15.93	16.19		14.95	15.20		14.64	14.88		12.44	12.62		1.065552	1.065132		1.088115	1.088038
	540090005	West Virginia	Brooke	16.52	16.80		14.95	15.22		14.51	14.76		12.02	12.24		1.105017	1.103811		1.138525	1.138211
	540090011	West Virginia	Brooke	16.04	16.37		14.49	14.79		14.05	14.34		11.56	11.81		1.10697	1.106829		1.141637	1.141562
	540110006	West Virginia	Cabell	16.30	16.57		15.25	15.50		14.65	14.89		12.09	12.28		1.068852	1.069032		1.112628	1.112827
	540291004	West Virginia	Hancock	15.76	16.64		14.34	15.15		13.93	14.72		11.48	12.15		1.099024	1.09835		1.131371	1.130435
	540330003	West Virginia	Harrison	13.99	14.19		13.82	14.02		13.30	13.49		9.94	10.08		1.012301	1.012126		1.05188	1.05189
	540390010	West Virginia	Kanawha	15.15	15.38		14.01	14.22		13.45	13.65		10.77	10.92		1.08137	1.081575		1.126394	1.12674
	540390011	West Virginia	Kanawha	13.17	13.17		12.23	12.23		11.74	11.74		9.24	9.24		1.07686	1.07686		1.121806	1.121806
	540391005	West Virginia	Kanawha	16.52	16.59		15.28	15.34		14.69	14.75		11.97	12.03		1.081152	1.081486		1.124575	1.124746
	540490006	West Virginia	Marion	15.03	15.25		14.96	15.18		14.41	14.62		10.79	10.94		1.004679	1.004611		1.043026	1.043092
	540511002	West Virginia	Marshall	15.19	15.33		13.96	14.09		13.44	13.56		10.74	10.85		1.088109	1.088006		1.130208	1.130531
	540610003	West Virginia	Monongalia	14.35	14.47		13.72	13.84		13.14	13.26		10.01	10.13		1.045918	1.04552		1.092085	1.091252
	540690010	West Virginia	Ohio	14.58	14.58		13.18	13.18		12.72	12.72		10.15	10.15		1.106222	1.106222		1.146226	1.146226
	540810002	West Virginia	Raleigh	12.90	13.03		11.88	12.00		11.40	11.51		9.01	9.09		1.085859	1.085833		1.131579	1.132059
	541071002	West Virginia	Wood	15.40	15.44		14.31	14.35		13.77	13.81		11.40	11.43		1.076171	1.075958		1.118373	1.11803
	550030010	Wisconsin	Ashland	6.07	6.21		5.85	5.98		5.74	5.87		5.46	5.58		1.037607	1.038462		1.057491	1.057922
	550090005	Wisconsin	Brown	11.39	11.86		11.03	11.47		10.75	11.19		10.25	10.68		1.032638	1.034002		1.059535	1.059875
	550250047	Wisconsin	Dane	12.20	12.65		11.80	12.23		11.52	11.94		10.61	11.01		1.033898	1.034342		1.059028	1.059464
	550270007	Wisconsin	Dodge	11.04	11.26		10.61	10.82		10.24	10.45		9.49	9.69		1.040528	1.040665		1.078125	1.077512
	550410007	Wisconsin	Forest	7.41	7.41		7.17	7.17		6.98	6.98		6.59	6.59		1.033473	1.033473		1.061605	1.061605
	550430009	Wisconsin	Grant	11.79	12.24		11.34	11.76		10.99	11.41		10.20	10.59		1.039683	1.040816		1.072793	1.072743
	550590019	Wisconsin	Kenosha	11.98	12.93		11.72	12.65		11.22	12.11		10.17	10.99		1.022184	1.022134		1.067736	1.067713
	550710007	Wisconsin	Manitowoc	10.20	10.89		9.92	10.58		9.63	10.27		9.06	9.66		1.028226	1.029301		1.05919	1.06037
	550790010	Wisconsin	Milwaukee	13.32	13.94		12.98	13.57		12.48	13.06		11.51	12.06		1.026194	1.027266		1.067308	1.067381
	550790026	Wisconsin	Milwaukee	12.88	13.83		12.52	13.44		12.05	12.94		11.10	11.92		1.028754	1.029018		1.06888	1.068779
	550790043	Wisconsin	Milwaukee	14.08	14.62		13.71	14.24		13.20	13.71		12.22	12.70		1.026988	1.026685		1.066667	1.066375
	550790059	Wisconsin	Milwaukee	13.68	14.87		13.33	14.48		12.83	13.94		11.88	12.91		1.026257	1.026934		1.066251	1.066714
	550790099	Wisconsin	Milwaukee	13.54	14.40		13.18	14.02		12.70	13.51		11.75	12.50		1.027314	1.027104		1.066142	1.065877
	550870009	Wisconsin	Outagamie	10.96	11.45		10.57	11.03		10.29	10.74		9.77	10.20		1.036897	1.038078		1.065112	1.066108
	550890009	Wisconsin	Ozaukee	11.60	12.22		11.26	11.86		10.85	11.43		10.00	10.54		1.030195	1.030354		1.069124	1.069116
	551091002	Wisconsin	St. Croix	10.09	10.09		9.63	9.63		9.42	9.42		9.01	9.01		1.047767	1.047767		1.071125	1.071125
	551110007	Wisconsin	Sauk	10.22	10.57		9.81	10.14		9.49	9.81		8.75	9.05		1.041794	1.042406		1.076923	1.077472
	551198001	Wisconsin	Taylor	8.24	8.43		7.91	8.10		7.74	7.92		7.33	7.50		1.041719	1.040741		1.064599	1.064394
	551250001	Wisconsin	Vilas	6.78	6.87		6.54	6.64		6.39	6.48		6.04	6.12		1.036697	1.034639		1.061033	1.060185
	551330027	Wisconsin	Waukesha	13.91	14.34		13.51	13.93		13.06	13.47		12.22	12.61		1.029608	1.029433		1.065084	1.064588
	560050877	Wyoming	Campbell	6.29	6.29		6.16	6.16		6.14	6.14		6.15	6.15		1.021104	1.021104		1.02443	1.02443
	560050892	Wyoming	Campbell	5.00	5.04		4.91	4.95		4.92	4.96		4.92	4.96		1.01833	1.018182		1.01626	1.016129
	560050899	Wyoming	Campbell	5.37	5.49		5.25	5.37		5.24	5.37		5.25	5.37		1.022857	1.022346		1.024809	1.022346
	560090819	Wyoming	Converse	3.52	3.60		3.41	3.48		3.40	3.47		3.41	3.48		1.032258	1.034483		1.035294	1.037464
	560131003	Wyoming	Fremont	8.17	8.50		7.89	8.21		7.84	8.15		7.85	8.16		1.035488	1.035323		1.042092	1.042945
	560210001	Wyoming	Laramie	4.48	4.69		4.28	4.48		4.22	4.42		4.23	4.42		1.046729	1.046875		1.061611	1.061086
	560330002	Wyoming	Sheridan	9.70	9.84		9.41	9.54		9.34	9.47		9.35	9.48		1.030818	1.031447		1.038544	1.039071

Annual PM Design Values
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						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 15 AND Avg DV-2012 <=15?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	15 ug/m3	15 ug/m3	Max DV-06-09	15 ug/m3	15 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	010030010		1.250273	1.25		10.5	9.7	10.1	1	0	10.5	1	0	0			0	0
	010270001		1.327638	1.324056		12.3	11	11.65	1	0	12.3	1	0	0			0	0
	010331002		1.308884	1.311609		12.4	11.4	11.9	1	0	12.4	1	0	0			0	0
	010491003		1.357418	1.356538		13.1	11.7	12.4	1	0	13.1	1	0	0			0	0
	010530002		1.199269	1.198182		13.2	13.3	13.25	1	0	13.3	1	0	0			0	0
	010550010		1.333333	1.333037		14.2	12.8	13.5	1	0	14.2	1	0	0			0	0
	010690003		1.213208	1.213208		12.3	11.2	11.75	1	0	12.3	1	0	0			0	0
	010730023		1.23612	1.237243		17.6	15.3	16.45	0	1	17.6	0	1	0			1	1
	010731005		1.266282	1.265207		14.5	12.8	13.65	1	0	14.5	1	0	0			0	0
	010731009		1.290385	1.288931		12.8	11.5	12.15	1	0	12.8	1	0	0			0	0
	010731010		1.30897	1.308135		15	13.3	14.15	1	0	15	1	0	0			0	0
	010732003		1.220157	1.219427		16.5	14.3	15.4	0	1	16.5	0	1	0			1	1
	010732006		1.26369	1.263993		14.2	12.5	13.35	1	0	14.2	1	0	0			0	0
	010735002		1.309872	1.309695		13.8	12.3	13.05	1	0	13.8	1	0	0			0	0
	010735003		1.315406	1.314698		13.6	12	12.8	1	0	13.6	1	0	0			0	0
	010890014		1.354043	1.35122		13.2	12.1	12.65	1	0	13.2	1	0	0			0	0
	010970002		1.21813	1.21813		12				0			0	0			0	0
	010970003		1.224975	1.225711		11.4	10.4	10.9	1	0	11.4	1	0	0			0	0
	010972005		1.244324	1.245559		10.4	9.4	9.9	1	0	10.4	1	0	0			0	0
	011010007		1.239264	1.240838		13.5	10.8	12.15	1	0	13.5	1	0	0			0	0
	011030011		1.325651	1.328402		13	12.1	12.55	1	0	13	1	0	0			0	0
	011130001		1.259468	1.261355		14.8	13.3	14.05	1	0	14.8	1	0	0			0	0
	011170006		1.294651	1.293586		13.5	12.1	12.8	1	0	13.5	1	0	0			0	0
	011190002		1.277599	1.277599		11.6				0			0	0			0	0
	011210002		1.332415	1.332415		13.7	12.6	13.15	1	0	13.7	1	0	0			0	0
	011250004		1.287356	1.287749		12.9	11.9	12.4	1	0	12.9	1	0	0			0	0
	011270002		1.313931	1.313084		13.5	12.2	12.85	1	0	13.5	1	0	0			0	0
	050010011		1.212269	1.212766		11.8	11.2	11.5	1	0	11.8	1	0	0			0	0
	050030005		1.167425	1.168717		12.1	10.7	11.4	1	0	12.1	1	0	0			0	0
	050350005		1.284608	1.284608		12.5	11.7	12.1	1	0	12.5	1	0	0			0	0
	050450002		1.189767	1.189827		11.7	11.1	11.4	1	0	11.7	1	0	0			0	0
	050510003		1.191162	1.190789		11.6	11.1	11.35	1	0	11.6	1	0	0			0	0
	050930007		1.278905	1.278905						0			0	0			0	0
	051070001		1.26096	1.26332		11.5	11.1	11.3	1	0	11.5	1	0	0			0	0
	051130002		1.176768	1.175781		11.4	10.7	11.05	1	0	11.4	1	0	0			0	0
	051150003		1.175551	1.175313		12.1	11.6	11.85	1	0	12.1	1	0	0			0	0
	051190007		1.206044	1.207461		12.2	11.7	11.95	1	0	12.2	1	0	0			0	0
	051191004		1.191688	1.191792		12.6	12.1	12.35	1	0	12.6	1	0	0			0	0
	051191005		1.197357	1.196837		13				0			0	0			0	0
	051390006		1.174429	1.173991		11.8	11.2	11.5	1	0	11.8	1	0	0			0	0
	051450001		1.188091	1.189542		11.2	10.7	10.95	1	0	11.2	1	0	0			0	0
	080010006		1.054507	1.055036		10	9.4	9.7	1	0	10	1	0	0			0	0
	080050005		1.055703	1.054688		7.6	7.2	7.4	1	0	7.6	1	0	0			0	0
	080130003		1.061224	1.06087		8.2	8	8.1	1	0	8.2	1	0	0			0	0
	080130012		1.05136	1.050595		6.9	6.8	6.85	1	0	6.9	1	0	0			0	0
	080290004		1.084548	1.083926		7.1				0			0	0			0	0
	080310002		1.053993	1.054113		8.8	8.5	8.65	1	0	8.8	1	0	0			0	0
	080310023		1.055135	1.055135		9.1	8.7	8.9	1	0	9.1	1	0	0			0	0
	080390001		1.050119	1.048499		4.4	4.4	4.4	1	0	4.4	1	0	0			0	0
	080410008		1.07508	1.073365		6.7				0			0	0			0	0
	080410011		1.071525	1.072751		7.7	7.5	7.6	1	0	7.7	1	0	0			0	0
	080690009		1.053161	1.052632		7.3	7.1	7.2	1	0	7.3	1	0	0			0	0

Annual PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 15 AND Avg DV-2012 <=15?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	15 ug/m3	15 ug/m3	Max DV-06-09	15 ug/m3	15 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	080770017		1.071594	1.071186		9.4	9.4	9.4	1	0	9.4	1	0	0			0	0
	081010012		1.065808	1.063978		7.7	7.3	7.5	1	0	7.7	1	0	0			0	0
	081130004		1.042601	1.043384		4.1				0			0	0			0	0
	081230006		1.070588	1.070513		8.4	8.2	8.3	1	0	8.4	1	0	0			0	0
	081230008		1.066829	1.067894		9.3	8.7	9	1	0	9.3	1	0	0			0	0
	090010010		1.185252	1.185252		12.4	11.3	11.85	1	0	12.4	1	0	0			0	0
	090011123		1.195215	1.195632		12	11	11.5	1	0	12	1	0	0			0	0
	090013005		1.195192	1.19774		11.8	11.1	11.45	1	0	11.8	1	0	0			0	0
	090019003		1.204617	1.20679		10.6	10	10.3	1	0	10.6	1	0	0			0	0
	090031003		1.188578	1.189529		10.1	9.2	9.65	1	0	10.1	1	0	0			0	0
	090050005		1.238022	1.238022		7.3	6.7	7	1	0	7.3	1	0	0			0	0
	090090026		1.197628	1.197433		11.6	10.8	11.2	1	0	11.6	1	0	0			0	0
	090090027		1.199422	1.199427		11.7	10.8	11.25	1	0	11.7	1	0	0			0	0
	090091123		1.188406	1.189807		12.2	11.4	11.8	1	0	12.2	1	0	0			0	0
	090092008		1.207568	1.210356		10.7	9.9	10.3	1	0	10.7	1	0	0			0	0
	090092123		1.18622	1.187672		11.9	11	11.45	1	0	11.9	1	0	0			0	0
	090113002		1.183585	1.185146		10.1	9.6	9.85	1	0	10.1	1	0	0			0	0
	100010002		1.266064	1.26378		11.8	11	11.4	1	0	11.8	1	0	0			0	0
	100010003		1.255767	1.253465		11.7	10.9	11.3	1	0	11.7	1	0	0			0	0
	100031003		1.245917	1.248258		12.9	12.2	12.55	1	0	12.9	1	0	0			0	0
	100031007		1.272906	1.27109		11.8	11.3	11.55	1	0	11.8	1	0	0			0	0
	100031012		1.255963	1.256109		12.9	12.2	12.55	1	0	12.9	1	0	0			0	0
	100032004		1.23096	1.230456		14.2	13	13.6	1	0	14.2	1	0	0			0	0
	100051002		1.263208	1.264098		12.7	11.7	12.2	1	0	12.7	1	0	0			0	0
	110010041		1.291971	1.292004		13	12	12.5	1	0	13	1	0	0			0	0
	110010042		1.290063	1.28952		13.1	12.1	12.6	1	0	13.1	1	0	0			0	0
	110010043		1.305037	1.303249		12.5	11.6	12.05	1	0	12.5	1	0	0			0	0
	120010023		1.28022	1.281671		8.9	8.2	8.55	1	0	8.9	1	0	0			0	0
	120010024		1.266843	1.265092		9	8.3	8.65	1	0	9	1	0	0			0	0
	120051004		1.212698	1.215177		10.9	9.9	10.4	1	0	10.9	1	0	0			0	0
	120090007		1.219941	1.220339		7.9	7.1	7.5	1	0	7.9	1	0	0			0	0
	120111002		1.130674	1.129252		8	7.5	7.75	1	0	8	1	0	0			0	0
	120112004		1.140865	1.142069		7.8	7.4	7.6	1	0	7.8	1	0	0			0	0
	120113002		1.130854	1.130854		8.1	7.4	7.75	1	0	8.1	1	0	0			0	0
	120170005		1.289398	1.28914		8.4	7.7	8.05	1	0	8.4	1	0	0			0	0
	120310098		1.229814	1.225767		9.2	8.7	8.95	1	0	9.2	1	0	0			0	0
	120310099		1.195876	1.197952		9.9	9.3	9.6	1	0	9.9	1	0	0			0	0
	120330004		1.187437	1.188623		10.6	9.5	10.05	1	0	10.6	1	0	0			0	0
	120570030		1.21219	1.212625		9.6	8.9	9.25	1	0	9.6	1	0	0			0	0
	120573002		1.203661	1.203807		9.4	8.6	9	1	0	9.4	1	0	0			0	0
	120710005		1.216885	1.217077		7.8	7.3	7.55	1	0	7.8	1	0	0			0	0
	120730012		1.219417	1.220941		11.7	10.8	11.25	1	0	11.7	1	0	0			0	0
	120814012		1.260372	1.26204		8.6	8.5	8.55	1	0	8.6	1	0	0			0	0
	120830003		1.243542	1.243902		9.8	10	9.9	1	0	10	1	0	0			0	0
	120861016		1.125	1.125		8.8	8.2	8.5	1	0	8.8	1	0	0			0	0
	120866001		1.128988	1.129604		7.6	7	7.3	1	0	7.6	1	0	0			0	0
	120951004		1.24	1.240152		8.6	7.8	8.2	1	0	8.6	1	0	0			0	0
	120952002		1.245085	1.243523		8.6	7.8	8.2	1	0	8.6	1	0	0			0	0
	120990009		1.168405	1.168405		7.2	6.4	6.8	1	0	7.2	1	0	0			0	0
	120992005		1.156156	1.157037		7.2	6.6	6.9	1	0	7.2	1	0	0			0	0
	121030018		1.222914	1.223602		9.1	8.4	8.75	1	0	9.1	1	0	0			0	0
	121031009		1.228387	1.228137		8.8	8.2	8.5	1	0	8.8	1	0	0			0	0

Annual PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

						Updated DVs								Max DV-2012 base > 15 AND Avg DV-2012 <=15?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	Avg DV-06-09 <= 15 ug/m3	Avg DV-2012 base > 15 ug/m3	Max DV-06-09	Max DV-06-09 <= 15 ug/m3	Max DV-2012 base > 15 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	121056006		1.218112	1.218434		8.9	8.2	8.55	1	0	8.9	1	0	0			0	0
	121111002		1.198276	1.199717		8	7.6	7.8	1	0	8	1	0	0			0	0
	121150013		1.245739	1.246132		7.9	7.1	7.5	1	0	7.9	1	0	0			0	0
	121171002		1.248031	1.248705		8.8	8.2	8.5	1	0	8.8	1	0	0			0	0
	121275002		1.257802	1.260459		8.6	8	8.3	1	0	8.6	1	0	0			0	0
	130210007		1.250569	1.251305		15.3	13.8	14.55	1	1	15.3	0	1	0	Flag		0	1
	130210012		1.286642	1.287012		13.1	12	12.55	1	0	13.1	1	0	0			0	0
	130510017		1.210247	1.211354		12.8	11.5	12.15	1	0	12.8	1	0	0			0	0
	130510091		1.206957	1.208048		12.7	12	12.35	1	0	12.7	1	0	0			0	0
	130590002		1.294526	1.294526		13.9	12.1	13	1	0	13.9	1	0	0			0	0
	130630091		1.293794	1.294345		15.3	13.6	14.45	1	1	15.3	0	1	0	Flag		0	1
	130670003		1.296535	1.296237		15.3	13.5	14.4	1	0	15.3	0	0	0			0	0
	130670004		1.313944	1.314673		14.7	12.8	13.75	1	0	14.7	1	0	0			0	0
	130890002		1.313509	1.312657		14.4	13	13.7	1	0	14.4	1	0	0			0	0
	130892001		1.31588	1.3153		14.4	13.4	13.9	1	0	14.4	1	0	0			0	0
	130950007		1.213018	1.213868		14.2	13.2	13.7	1	0	14.2	1	0	0			0	0
	131150005		1.295253	1.294071		15	13.8	14.4	1	0	15	1	0	0			0	0
	131210032		1.307692	1.307755		14.8	13.5	14.15	1	0	14.8	1	0	0			0	0
	131210039		1.276923	1.277047		13	9.8	11.4	1	1	13	1	1	0	Flag		0	1
	131270006		1.198819	1.19883		11.2	10.6	10.9	1	0	11.2	1	0	0			0	0
	131350002		1.29284	1.292259		14.5	12.7	13.6	1	0	14.5	1	0	0			0	0
	131390003		1.315937	1.313528		13.2	12	12.6	1	0	13.2	1	0	0			0	0
	131530001		1.27646	1.278027		13.9	12.5	13.2	1	0	13.9	1	0	0			0	0
	131850003		1.195215	1.196828		12.1	11.1	11.6	1	0	12.1	1	0	0			0	0
	132150001		1.27335	1.27381		14.6	13.2	13.9	1	0	14.6	1	0	0			0	0
	132150008		1.259136	1.259136		14.6	13.2	13.9	1	0	14.6	1	0	0			0	0
	132150011		1.258497	1.259912		14.3	13	13.65	1	0	14.3	1	0	0			0	0
	132230003		1.36302	1.363203		13.5	12.2	12.85	1	0	13.5	1	0	0			0	0
	132450005		1.21668	1.216923		14.8	13.1	13.95	1	0	14.8	1	0	0			0	0
	132450091		1.216447	1.216858		14.8	13.5	14.15	1	0	14.8	1	0	0			0	0
	132950002		1.3116	1.3125		13.7	12.5	13.1	1	0	13.7	1	0	0			0	0
	133030001		1.248145	1.249196		14.2	12.5	13.35	1	0	14.2	1	0	0			0	0
	133190001		1.2639	1.265306		14.4	13.4	13.9	1	0	14.4	1	0	0			0	0
	170010006		1.183712	1.186175		10.8	10.5	10.65	1	0	10.8	1	0	0			0	0
	170190004		1.257545	1.252672		11.7	11.2	11.45	1	0	11.7	1	0	0			0	0
	170191001		1.255511	1.244701		11.7	11.5	11.6	1	0	11.7	1	0	0			0	0
	170310022		1.167306	1.166542		13.8	13.3	13.55	1	0	13.8	1	0	0			0	0
	170310050		1.165224	1.163609		13.1	12.3	12.7	1	0	13.1	1	0	0			0	0
	170310052		1.15894	1.156679		14.1	13.5	13.8	1	1	14.1	1	1	0	Flag		0	1
	170310057		1.165116	1.163002		13.6	12.8	13.2	1	0	13.6	1	0	0			0	0
	170310076		1.166928	1.165899		13.2	12.4	12.8	1	0	13.2	1	0	0			0	0
	170312001		1.161164	1.160153		13.3	12.8	13.05	1	0	13.3	1	0	0			0	0
	170313301		1.163359	1.162565		13.5	12.8	13.15	1	0	13.5	1	1	1		Flag	0	0
	170314007		1.178967	1.178315		11.8	11.7	11.75	1	0	11.8	1	0	0			0	0
	170314201		1.179298	1.182063		11.7	10.9	11.3	1	0	11.7	1	0	0			0	0
	170316005		1.16042	1.160289		14.1	13.3	13.7	1	0	14.1	1	1	1		Flag	0	0
	170434002		1.16428	1.164589		12.6	11.6	12.1	1	0	12.6	1	0	0			0	0
	170831001		1.213748	1.213235		11.6	11.1	11.35	1	0	11.6	1	0	0			0	0
	170890003		1.184	1.182533		11.9	11.2	11.55	1	0	11.9	1	0	0			0	0
	170890007		1.164907	1.164907		12.5	11.6	12.05	1	0	12.5	1	0	0			0	0
	170971007		1.17982	1.179337		10.6	10	10.3	1	0	10.6	1	0	0			0	0
	171110001		1.182078	1.180871		11.2	10.4	10.8	1	0	11.2	1	0	0			0	0

Annual PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 15 AND Avg DV-2012 <=15?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	15 ug/m3	15 ug/m3	Max DV-06-09	15 ug/m3	15 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	171132003		1.215898	1.215898		11.5	11.1	11.3	1	0	11.5	1	0	0			0	0
	171150013		1.220276	1.219227		12.7	12.3	12.5	1	0	12.7	1	0	0			0	0
	171191007		1.175809	1.174724		15.7	14.1	14.9	1	1	15.7	0	1	0	Flag		0	1
	171192009		1.196413	1.196735		13.5	12.5	13	1	0	13.5	1	0	0			0	0
	171193007		1.189369	1.19028		13.2	12.5	12.85	1	0	13.2	1	0	0			0	0
	171430037		1.182624	1.182684		12.1	11.6	11.85	1	0	12.1	1	0	0			0	0
	171570001		1.23913	1.24		12	11.4	11.7	1	0	12	1	0	0			0	0
	171613002		1.182087	1.183654		11.2	10.6	10.9	1	0	11.2	1	0	0			0	0
	171630010		1.182094	1.180795		14.2	13.3	13.75	1	1	14.2	1	1	0	Flag		0	1
	171634001		1.198826	1.200497		13.1	12.5	12.8	1	0	13.1	1	0	0			0	0
	171670012		1.177578	1.180284		11.9	11.5	11.7	1	0	11.9	1	0	0			0	0
	171971002		1.173988	1.173768		12.8	12.3	12.55	1	0	12.8	1	0	0			0	0
	171971011		1.219048	1.223261		10.7	10.4	10.55	1	0	10.7	1	0	0			0	0
	172010013		1.161815	1.161815		11.8	10.9	11.35	1	0	11.8	1	0	0			0	0
	180030004		1.208665	1.206512		12.3	12.1	12.2	1	0	12.3	1	0	0			0	0
	180030014		1.208742	1.207465		12.4	12.9	12.65	1	0	12.9	1	0	0			0	0
	180190006		1.325788	1.329063		15.3	14.7	15	1	1	15.3	0	1	0	Flag		0	1
	180350006		1.282629	1.283457		12.3	12	12.15	1	0	12.3	1	0	0			0	0
	180372001		1.366337	1.362294		13.6	13.3	13.45	1	1	13.6	1	1	0	Flag		0	1
	180431004		1.361546	1.359418		13.6	13.1	13.35	1	0	13.6	1	0	0			0	0
	180650003		1.294118	1.294118		11.9	11.7	11.8	1	0	11.9	1	0	0			0	0
	180670003		1.25722	1.254609		12.4	12	12.2	1	0	12.4	1	0	0			0	0
	180830004		1.349038	1.353333		12.9	12.3	12.6	1	0	12.9	1	0	0			0	0
	180890006		1.174486	1.173948		13.2	12.6	12.9	1	0	13.2	1	0	0			0	0
	180890027		1.181042	1.180451		12.4	12	12.2	1	0	12.4	1	0	0			0	0
	180891003		1.176174	1.174773		13.3	14	13.65	1	0	14	1	0	0			0	0
	180892004		1.17181	1.170593		12.8	13.9	13.35	1	0	13.9	1	0	0			0	0
	180892010		1.176122	1.174022		12.9	12.3	12.6	1	0	12.9	1	0	0			0	0
	180910011		1.206763	1.205634		11.6	11.2	11.4	1	0	11.6	1	0	0			0	0
	180910012		1.210878	1.209066		11.7	12.1	11.9	1	0	12.1	1	0	0			0	0
	180950009		1.285451	1.284182		12.6	12.4	12.5	1	0	12.6	1	0	0			0	0
	180970042		1.308824	1.306031		13.5	14.6	14.05	1	0	14.6	1	0	0			0	0
	180970078		1.287764	1.28798		14.3	13.6	13.95	1	1	14.3	1	1	0	Flag		0	1
	180970079		1.294894	1.293356		13.8	14.8	14.3	1	0	14.8	1	0	0			0	0
	180970081		1.27381	1.271173		14.7	14.2	14.45	1	1	14.7	1	1	0	Flag		0	1
	180970083		1.278135	1.276078		14.4	13.8	14.1	1	1	14.4	1	1	0	Flag		0	1
	181270020		1.209169	1.206865		12	13	12.5	1	0	13	1	0	0			0	0
	181270024		1.202002	1.204137		12.2	12.1	12.15	1	0	12.2	1	0	0			0	0
	181410014		1.165935	1.16567		12.1	11.7	11.9	1	0	12.1	1	0	0			0	0
	181411008		1.161154	1.161154		10.3				0			0	0			0	0
	181412004		1.167577	1.165785		11.9	12.4	12.15	1	0	12.4	1	0	0			0	0
	181470009		1.397073	1.401734		13	12.6	12.8	1	0	13	1	0	0			0	0
	181570008		1.26525	1.263252		12.3	12	12.15	1	0	12.3	1	0	0			0	0
	181630006		1.289728	1.288062		13.4	12.8	13.1	1	0	13.4	1	0	0			0	0
	181630012		1.290941	1.28866		13.7	13	13.35	1	0	13.7	1	0	0			0	0
	181630016		1.28449	1.283051		13.6	13.1	13.35	1	0	13.6	1	0	0			0	0
	181670018		1.333651	1.334275		13.2	12.8	13	1	0	13.2	1	0	0			0	0
	181670023		1.346346	1.34714		12.6	12.4	12.5	1	0	12.6	1	0	0			0	0
	190130008		1.156477	1.156627		10.9	11.1	11	1	0	11.1	1	0	0			0	0
	190450021		1.176692	1.178172		11.7	11.4	11.55	1	0	11.7	1	0	0			0	0
	191032001		1.158198	1.15879		11.3	11.1	11.2	1	0	11.3	1	0	0			0	0
	191130037		1.166486	1.166134		10.4	10.3	10.35	1	0	10.4	1	0	0			0	0

Annual PM Design Values
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						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 15 AND Avg DV-2012 <=15?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	15 ug/m3	15 ug/m3	Max DV-06-09	15 ug/m3	15 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	191370002		1.158382	1.159371		9.5	9.3	9.4	1	0	9.5	1	0	0			0	0
	191390015		1.158744	1.158675		12.9	13.1	13	1	0	13.1	1	0	0			0	0
	191471002		1.153753	1.153753		9	9	9	1	0	9	1	0	0			0	0
	191530030		1.16835	1.16722		10	10	10	1	0	10	1	0	0			0	0
	191532510		1.169213	1.166858		9.7	9.7	9.7	1	0	9.7	1	0	0			0	0
	191532520		1.165389	1.165389						0			0	0			0	0
	191550009		1.14271	1.143992		10.8	10.6	10.7	1	0	10.8	1	0	0			0	0
	191630015		1.181275	1.181195		11.6	11.8	11.7	1	0	11.8	1	0	0			0	0
	191630018		1.181726	1.183085		11.3	11.5	11.4	1	0	11.5	1	0	0			0	0
	191630019		1.152678	1.152678		13.9	13.6	13.75	1	0	13.9	1	0	0			0	0
	191770006		1.150743	1.150743		10	9.6	9.8	1	0	10	1	0	0			0	0
	191930017		1.124183	1.123799		10.3	10.2	10.25	1	0	10.3	1	0	0			0	0
	191970004		1.162556	1.162611		9.8	10	9.9	1	0	10	1	0	0			0	0
	200910007		1.167585	1.166488		9.7	9.6	9.65	1	0	9.7	1	0	0			0	0
	200910009		1.172122	1.172122		10				0			0	0			0	0
	200910010		1.171913	1.173494		9	8.7	8.85	1	0	9	1	0	0			0	0
	201070002		1.162042	1.164474		10.1	9.7	9.9	1	0	10.1	1	0	0			0	0
	201730008		1.152809	1.151805		9.5	9.5	9.5	1	0	9.5	1	0	0			0	0
	201730009		1.153587	1.155063		9.3	9.6	9.45	1	0	9.6	1	0	0			0	0
	201730010		1.152392	1.152471		9.5	9.5	9.5	1	0	9.5	1	0	0			0	0
	201770010		1.151547	1.151547		9.4				0			0	0			0	0
	201770011		1.146905	1.146905		10.2				0			0	0			0	0
	201910002		1.148664	1.148107		9	9.1	9.05	1	0	9.1	1	0	0			0	0
	202090021		1.159381	1.158579		11.2	10.7	10.95	1	0	11.2	1	0	0			0	0
	202090022		1.167735	1.165803		10	9.7	9.85	1	0	10	1	0	0			0	0
	210130002		1.365201	1.368224		14.3	13.2	13.75	1	0	14.3	1	0	0			0	0
	210190017		1.4	1.401335		13.4	12.4	12.9	1	0	13.4	1	0	0			0	0
	210290006		1.357013	1.358036		14.1	13.3	13.7	1	0	14.1	1	0	0			0	0
	210370003		1.38641	1.38641		11.5				0			0	0			0	0
	210430500		1.437647	1.439498		11.5	10.6	11.05	1	0	11.5	1	0	0			0	0
	210470006		1.373569	1.377033		12.8	12.2	12.5	1	0	12.8	1	0	0			0	0
	210590005		1.435845	1.435845		13.1	12.7	12.9	1	0	13.1	1	0	0			0	0
	210670012		1.383205	1.38645		13.5	12.6	13.05	1	0	13.5	1	0	0			0	0
	210670014		1.367403	1.363063		13.4	12.5	12.95	1	0	13.4	1	0	0			0	0
	210730006		1.404412	1.408333		12.5	11.8	12.15	1	0	12.5	1	0	0			0	0
	210930006		1.402893	1.406814		13.3	12.5	12.9	1	0	13.3	1	0	0			0	0
	211010014		1.342004	1.343368		13.2	12.6	12.9	1	0	13.2	1	0	0			0	0
	211110043		1.349262	1.347305		14.4	13.5	13.95	1	1	14.4	1	1	0	Flag		0	1
	211110044		1.350088	1.353456		14.5	13.6	14.05	1	0	14.5	1	1	1		Flag	0	0
	211110048		1.355556	1.355752		14.2	14.3	14.25	1	0	14.3	1	0	0			0	0
	211110051		1.372549	1.372851		14.1	13.4	13.75	1	0	14.1	1	0	0			0	0
	211170007		1.362429	1.360825		13.2	12.4	12.8	1	0	13.2	1	0	0			0	0
	211250004		1.392897	1.392897		9				0			0	0			0	0
	211451004		1.323442	1.329491		13.2	12.5	12.85	1	0	13.2	1	0	0			0	0
	211510003		1.404541	1.400818		12	11.2	11.6	1	0	12	1	0	0			0	0
	211930003		1.373291	1.375		12.9	13.2	13.05	1	0	13.2	1	0	0			0	0
	211950002		1.418335	1.418795		12.8	11.4	12.1	1	0	12.8	1	0	0			0	0
	212270007		1.392749	1.39479		15.5	17.1	16.3	0	0	17.1	0	0	0			0	0
	220171002		1.187678	1.187678						0			0	0			0	0
	220190009		1.155022	1.152941		10	8.8	9.4	1	0	10	1	0	0			0	0
	220190010		1.145963	1.146939		9.9	9.3	9.6	1	0	9.9	1	0	0			0	0
	220290003		1.218783	1.218783		10.9				0			0	0			0	0

Annual PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 15 AND Avg DV-2012 <=15?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	15 ug/m3	15 ug/m3	Max DV-06-09	15 ug/m3	15 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	220330009		1.164491	1.164807		12.5	11	11.75	1	0	12.5	1	0	0			0	0
	220331001		1.173955	1.174542		11	9.8	10.4	1	0	11	1	0	0			0	0
	220470005		1.172727	1.173599		12.2	11.1	11.65	1	0	12.2	1	0	0			0	0
	220470009		1.195228	1.196141		10.5	9.5	10	1	0	10.5	1	0	0			0	0
	220511001		1.207547	1.207859		10.5	9.4	9.95	1	0	10.5	1	0	0			0	0
	220550006		1.20304	1.202151		10.1	9.4	9.75	1	0	10.1	1	0	0			0	0
	220730004		1.176991	1.178571		10.9	9.7	10.3	1	0	10.9	1	0	0			0	0
	220790002		1.187298	1.185822		10.1	9.1	9.6	1	0	10.1	1	0	0			0	0
	221050001		1.21638	1.215898		11.3	9.9	10.6	1	0	11.3	1	0	0			0	0
	221090001		1.208099	1.208705		10	8.8	9.4	1	0	10	1	0	0			0	0
	221210001		1.162651	1.162277		12.9	11.5	12.2	1	0	12.9	1	0	0			0	0
	230010011		1.121178	1.120253		8.8	8.3	8.55	1	0	8.8	1	0	0			0	0
	230030013		1.056399	1.056584		9.2	9.4	9.3	1	0	9.4	1	0	0			0	0
	230031011		1.078227	1.078597		7.5	7.3	7.4	1	0	7.5	1	0	0			0	0
	230050015		1.128571	1.128502		9.9	9.1	9.5	1	0	9.9	1	0	0			0	0
	230050027		1.126518	1.125977		9.7				0			0	0			0	0
	230090103		1.142857	1.142593		5.1	4.8	4.95	1	0	5.1	1	0	0			0	0
	230110016		1.121212	1.121593		8.7	8.2	8.45	1	0	8.7	1	0	0			0	0
	230172011		1.103486	1.104255		9.4	8.6	9	1	0	9.4	1	0	0			0	0
	230190002		1.132919	1.132629		8.3	7.9	8.1	1	0	8.3	1	0	0			0	0
	240030014		1.294565	1.294565						0			0	0			0	0
	240031003		1.209796	1.210151		13.3	12.4	12.85	1	0	13.3	1	0	0			0	0
	240032002		1.212146	1.212146						0			0	0			0	0
	240051007		1.277365	1.278689		12.6	11.8	12.2	1	0	12.6	1	0	0			0	0
	240053001		1.236181	1.234619		13.6	12.6	13.1	1	0	13.6	1	0	0			0	0
	240150003		1.280808	1.282		12.1	11.6	11.85	1	0	12.1	1	0	0			0	0
	240251001		1.281762	1.281218		11.7	11	11.35	1	0	11.7	1	0	0			0	0
	240313001		1.30303	1.302564		11.3	10.8	11.05	1	0	11.3	1	0	0			0	0
	240330030		1.284365	1.284365		11.6	11.1	11.35	1	0	11.6	1	0	0			0	0
	240338003		1.299103	1.295788		11.9	10.8	11.35	1	0	11.9	1	0	0			0	0
	240430009		1.316042	1.316574		12.2	11.5	11.85	1	0	12.2	1	0	0			0	0
	245100006		1.244053	1.244156		12.8	11.8	12.3	1	0	12.8	1	0	0			0	0
	245100007		1.254799	1.258173		12.9	12	12.45	1	0	12.9	1	0	0			0	0
	245100008		1.213241	1.213303		14	12.9	13.45	1	0	14	1	0	0			0	0
	245100049		1.205089	1.205089						0			0	0			0	0
	250035001		1.174201	1.17245		9.7	9.6	9.65	1	0	9.7	1	0	0			0	0
	250051004		1.187113	1.185531		8.8	8.8	8.8	1	0	8.8	1	0	0			0	0
	250092006		1.178851	1.178988		8.8	8.5	8.65	1	0	8.8	1	0	0			0	0
	250095005		1.171171	1.172327		8.7	8.4	8.55	1	0	8.7	1	0	0			0	0
	250096001		1.168293	1.167866		9.1	9	9.05	1	0	9.1	1	0	0			0	0
	250130008		1.186747	1.187354		9.3	9	9.15	1	0	9.3	1	0	0			0	0
	250130016		1.166826	1.166822		11.4	10.8	11.1	1	0	11.4	1	0	0			0	0
	250132009		1.168639	1.168959		11.1	10.5	10.8	1	0	11.1	1	0	0			0	0
	250230004		1.183453	1.183197		9.3	9.2	9.25	1	0	9.3	1	0	0			0	0
	250250002		1.150047	1.150442		11.1	10.5	10.8	1	0	11.1	1	0	0			0	0
	250250027		1.158203	1.156456		11.1	10.7	10.9	1	0	11.1	1	0	0			0	0
	250250042		1.162393	1.161554		10	9.7	9.85	1	0	10	1	0	0			0	0
	250250043		1.147498	1.14616		11.4	11.1	11.25	1	0	11.4	1	0	0			0	0
	250270016		1.182735	1.183628		10.2	9.8	10	1	0	10.2	1	0	0			0	0
	250270023		1.173597	1.175493		10.7	10.3	10.5	1	0	10.7	1	0	0			0	0
	260050003		1.228216	1.231006		10.9	10	10.45	1	0	10.9	1	0	0			0	0
	260170014		1.215795	1.21696		9.7	9.1	9.4	1	0	9.7	1	0	0			0	0

Annual PM Design Values
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						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 15 AND Avg DV-2012 <=15?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	15 ug/m3	15 ug/m3	Max DV-06-09	15 ug/m3	15 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	260210014		1.214508	1.217791		10.8	10.1	10.45	1	0	10.8	1	0	0			0	0
	260490021		1.231177	1.231975		10.6	9.9	10.25	1	0	10.6	1	0	0			0	0
	260650012		1.227912	1.227674		10.9	10.1	10.5	1	0	10.9	1	0	0			0	0
	260770008		1.213611	1.213755		12	11.2	11.6	1	0	12	1	0	0			0	0
	260810020		1.211466	1.212037		11.8	10.7	11.25	1	0	11.8	1	0	0			0	0
	260990009		1.217641	1.222118		11.3	10.7	11	1	0	11.3	1	0	0			0	0
	261130001		1.158485	1.159501		7.4	6.8	7.1	1	0	7.4	1	0	0			0	0
	261150005		1.250674	1.25155		12.4	11.6	12	1	0	12.4	1	0	0			0	0
	261210040		1.196907	1.2		10.5	9.6	10.05	1	0	10.5	1	0	0			0	0
	261250001		1.220549	1.219846		12.1	11.4	11.75	1	0	12.1	1	0	0			0	0
	261390005		1.217265	1.219442		11.5	10.6	11.05	1	0	11.5	1	0	0			0	0
	261450018		1.215349	1.215349						0			0	0			0	0
	261470005		1.196413	1.198779		11.9	11.1	11.5	1	0	11.9	1	0	0			0	0
	261610005		1.233701	1.233701						0			0	0			0	0
	261610008		1.215412	1.217206		12.2	11.3	11.75	1	0	12.2	1	0	0			0	0
	261630001		1.223252	1.223482		12.6	11.9	12.25	1	0	12.6	1	0	0			0	0
	261630015		1.2206	1.222057		14	12.8	13.4	1	1	14	1	1	0	Flag		0	1
	261630016		1.213156	1.2136		12.9	12.1	12.5	1	0	12.9	1	0	0			0	0
	261630019		1.20742	1.209664		12.3	11.6	11.95	1	0	12.3	1	0	0			0	0
	261630025		1.234101	1.23818		11.9	11.2	11.55	1	0	11.9	1	0	0			0	0
	261630033		1.212751	1.215529		15.4	14.1	14.75	1	1	15.4	0	1	0	Flag		0	1
	261630036		1.226589	1.23126		12.4	11.6	12	1	0	12.4	1	0	0			0	0
	270210001		1.100386	1.098485		5.5	5	5.25	1	0	5.5	1	0	0			0	0
	270370470		1.127273	1.127509		9.3	9.6	9.45	1	0	9.6	1	0	0			0	0
	270530050		1.121839	1.122286		9.9				0			0	0			0	0
	270530961		1.128395	1.129111		9	9.5	9.25	1	0	9.5	1	0	0			0	0
	270530963		1.12691	1.126292		9.6	10	9.8	1	0	10	1	0	0			0	0
	270530965		1.123675	1.123095		9.6				0			0	0			0	0
	270531007		1.127358	1.127168		9.9	10.4	10.15	1	0	10.4	1	0	0			0	0
	270532006		1.126812	1.128606		9.7	9.9	9.8	1	0	9.9	1	0	0			0	0
	270953051		1.10473	1.106136		6.6	6.7	6.65	1	0	6.7	1	0	0			0	0
	271095008		1.145928	1.145928		9.6	10	9.8	1	0	10	1	0	0			0	0
	271230866		1.109804	1.109943		11	11.1	11.05	1	0	11.1	1	0	0			0	0
	271230868		1.112008	1.112094		10.7	10.9	10.8	1	0	10.9	1	0	0			0	0
	271230871		1.118467	1.118721		10	10.3	10.15	1	0	10.3	1	0	0			0	0
	271377001		1.097122	1.098214		6	5.8	5.9	1	0	6	1	0	0			0	0
	271377550		1.111311	1.110124		6.3	6.3	6.3	1	0	6.3	1	0	0			0	0
	271377551		1.106038	1.107558		7.6	7.5	7.55	1	0	7.6	1	0	0			0	0
	271390505		1.132075	1.133663		9.1	9.5	9.3	1	0	9.5	1	0	0			0	0
	271453052		1.115735	1.115336		8.4	8.6	8.5	1	0	8.6	1	0	0			0	0
	280010004		1.227174	1.225668		10.7	10.4	10.55	1	0	10.7	1	0	0			0	0
	280110001		1.233533	1.233333		11.9	11.2	11.55	1	0	11.9	1	0	0			0	0
	280330002		1.301571	1.301769		11.9	11.3	11.6	1	0	11.9	1	0	0			0	0
	280350004		1.238182	1.238053		13.7	12.8	13.25	1	0	13.7	1	0	0			0	0
	280470008		1.21393	1.213373		11	10	10.5	1	0	11	1	0	0			0	0
	280490010		1.239882	1.239961		12.3	11.8	12.05	1	0	12.3	1	0	0			0	0
	280590006		1.238683	1.238289		11	10.2	10.6	1	0	11	1	0	0			0	0
	280670002		1.24266	1.24276		14	13	13.5	1	0	14	1	0	0			0	0
	280750003		1.264023	1.264734		12.5	12	12.25	1	0	12.5	1	0	0			0	0
	280810005		1.302591	1.305188		12.4	11.7	12.05	1	0	12.4	1	0	0			0	0
	280870001		1.285427	1.287819		12.5	11.5	12	1	0	12.5	1	0	0			0	0
	281090001		1.215215	1.215215						0			0	0			0	0

Annual PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 15 AND Avg DV-2012 <=15?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	15 ug/m3	15 ug/m3	Max DV-06-09	15 ug/m3	15 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	281490004		1.223436	1.223436						0			0	0			0	0
	290190004		1.174603	1.174603		10.5				0			0	0			0	0
	290210005		1.133747	1.133747		12	11.4	11.7	1	0	12	1	0	0			0	0
	290370003		1.17511	1.177174		10.3	10.1	10.2	1	0	10.3	1	0	0			0	0
	290390001		1.168067	1.168067		11.2	9.9	10.55	1	0	11.2	1	0	0			0	0
	290470005		1.174654	1.176778		10.6	10.1	10.35	1	0	10.6	1	0	0			0	0
	290770032		1.182093	1.181095		11.1	10.7	10.9	1	0	11.1	1	0	0			0	0
	290950034		1.162875	1.162115		11.9	11.5	11.7	1	0	11.9	1	0	0			0	0
	290990012		1.188793	1.186916		12.8	12.9	12.85	1	0	12.9	1	0	0			0	0
	291370001		1.2051	1.2051		9.9				0			0	0			0	0
	291831002		1.204896	1.203866		12.3	12.7	12.5	1	0	12.7	1	0	0			0	0
	291860006		1.219378	1.220733		12.2	11.7	11.95	1	0	12.2	1	0	0			0	0
	291890004		1.201843	1.201843		10.5				0			0	0			0	0
	291892003		1.20286	1.202267		12.3	12.1	12.2	1	0	12.3	1	0	0			0	0
	295100007		1.189167	1.188322		13.2	12.8	13	1	0	13.2	1	0	0			0	0
	295100085		1.192691	1.193229		13.3	12.7	13	1	0	13.3	1	0	0			0	0
	295100086		1.202147	1.201413		12.8	13.1	12.95	1	0	13.1	1	0	0			0	0
	295100087		1.193443	1.192214		13.6	12.8	13.2	1	0	13.6	1	0	0			0	0
	300870307		1.017002	1.017002						0			0	0			0	0
	301111065		1.036943	1.038071		8	7	7.5	1	0	8	1	0	0			0	0
	310250002		1.15625	1.15625						0			0	0			0	0
	310550019		1.154206	1.15367		9.3	9.6	9.45	1	0	9.6	1	0	0			0	0
	310550052		1.153396	1.152888		9	8.8	8.9	1	0	9	1	0	0			0	0
	310790004		1.135714	1.135714		7.8	7.7	7.75	1	0	7.8	1	0	0			0	0
	311090022		1.160365	1.158552		8.1	8.1	8.1	1	0	8.1	1	0	0			0	0
	311111002		1.086083	1.086083						0			0	0			0	0
	311530007		1.15858	1.157277		9.4	9.2	9.3	1	0	9.4	1	0	0			0	0
	311570003		1.06338	1.06338		6.5	6.1	6.3	1	0	6.5	1	0	0			0	0
	311770002		1.151177	1.150062		8.6	8.4	8.5	1	0	8.6	1	0	0			0	0
	330012004		1.185668	1.184168		6.8	6.3	6.55	1	0	6.8	1	0	0			0	0
	330050007		1.156469	1.157527		11	10.6	10.8	1	0	11	1	0	0			0	0
	330070014		1.104639	1.104145		8.8				0			0	0			0	0
	330090010		1.15956	1.15956		7.8	7.2	7.5	1	0	7.8	1	0	0			0	0
	330110020		1.178241	1.178241						0			0	0			0	0
	330111015		1.174883	1.174883		9.6	9.1	9.35	1	0	9.6	1	0	0			0	0
	330115001		1.201149	1.201149						0			0	0			0	0
	330131006		1.181045	1.180825		9.3	8.9	9.1	1	0	9.3	1	0	0			0	0
	330150014		1.162791	1.163085		8.6	8	8.3	1	0	8.6	1	0	0			0	0
	330190003		1.157277	1.159635		8.9	8.8	8.85	1	0	8.9	1	0	0			0	0
	340011006		1.229368	1.229368		11.1	9.9	10.5	1	0	11.1	1	0	0			0	0
	340030003		1.221082	1.223757		12.2	11.3	11.75	1	0	12.2	1	0	0			0	0
	340070003		1.239292	1.238447		13	13.3	13.15	1	0	13.3	1	0	0			0	0
	340071007		1.241728	1.243682		12.7	11.7	12.2	1	0	12.7	1	0	0			0	0
	340130015		1.226433	1.226015		13.1	13.5	13.3	1	0	13.5	1	0	0			0	0
	340155001		1.243993	1.243993		9.3				0			0	0			0	0
	340171003		1.202703	1.204601		12.9	11.9	12.4	1	0	12.9	1	0	0			0	0
	340210008		1.23518	1.239962		11.9	10.8	11.35	1	0	11.9	1	0	0			0	0
	340218001		1.255919	1.259179		10.1	9.4	9.75	1	0	10.1	1	0	0			0	0
	340230006		1.229757	1.231072		11.3	10.4	10.85	1	0	11.3	1	0	0			0	0
	340270004		1.244589	1.246862		10.3	9.6	9.95	1	0	10.3	1	0	0			0	0
	340273001		1.252761	1.254739		9.4	8.8	9.1	1	0	9.4	1	0	0			0	0
	340292002		1.233898	1.234392		10.2	9.5	9.85	1	0	10.2	1	0	0			0	0

Annual PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 15 AND Avg DV-2012 <=15?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	15 ug/m3	15 ug/m3	Max DV-06-09	15 ug/m3	15 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	340310005		1.233716	1.238411		12.3	11.3	11.8	1	0	12.3	1	0	0			0	0
	340390004		1.215622	1.21423		13.6	12.6	13.1	1	0	13.6	1	0	0			0	0
	340390006		1.231054	1.233273		12.6	11.6	12.1	1	0	12.6	1	0	0			0	0
	340392003		1.230914	1.233333		12.3	11.5	11.9	1	0	12.3	1	0	0			0	0
	340410006		1.245837	1.248571		11.8	10.9	11.35	1	0	11.8	1	0	0			0	0
	350010023		1.089922	1.090214		6.7	6	6.35	1	0	6.7	1	0	0			0	0
	350010024		1.092105	1.0896		6.3	5.8	6.05	1	0	6.3	1	0	0			0	0
	350050005		1.073892	1.073409		6.4	6.2	6.3	1	0	6.4	1	0	0			0	0
	350130017		1.058511	1.059063		10.5	10.9	10.7	1	0	10.9	1	0	0			0	0
	350130025		1.073129	1.070826		6.3	5.9	6.1	1	0	6.3	1	0	0			0	0
	350431003		1.091703	1.088937		4.8	4.4	4.6	1	0	4.8	1	0	0			0	0
	350439011		1.044444	1.046424		7.7	7.6	7.65	1	0	7.7	1	0	0			0	0
	350450006		1.034965	1.035775		6	5.9	5.95	1	0	6	1	0	0			0	0
	350490020		1.053097	1.052516		4.8	4.4	4.6	1	0	4.8	1	0	0			0	0
	360010005		1.148544	1.148544		9.6	9.3	9.45	1	0	9.6	1	0	0			0	0
	360050080		1.190586	1.191812		14.3	13.9	14.1	1	0	14.3	1	0	0			0	0
	360050083		1.212037	1.213636		12.6	13.2	12.9	1	0	13.2	1	0	0			0	0
	360050110		1.204118	1.203767		12.4	11.8	12.1	1	0	12.4	1	0	0			0	0
	360130011		1.322537	1.325887		8.7	8.3	8.5	1	0	8.7	1	0	0			0	0
	360290005		1.2158	1.215779		11.1	10.7	10.9	1	0	11.1	1	0	0			0	0
	360291007		1.227184	1.224105		10.8	10.3	10.55	1	0	10.8	1	0	0			0	0
	360310003		1.192771	1.191235		5.1	4.8	4.95	1	0	5.1	1	0	0			0	0
	360470122		1.195286	1.195102		12.9	12.2	12.55	1	0	12.9	1	0	0			0	0
	360551007		1.213227	1.213227		9.5	8.8	9.15	1	0	9.5	1	0	0			0	0
	360590008		1.197125	1.197421		10.9	10.3	10.6	1	0	10.9	1	0	0			0	0
	360610056		1.193215	1.196906		15.5	16	15.75	0	0	16	0	1	1			0	1
	360610062		1.199352	1.199843		14.3	15.8	15.05	0	0	15.8	0	0	0			0	0
	360610079		1.20336	1.204819		12.8	12.1	12.45	1	0	12.8	1	0	0			0	0
	360610128		1.185385	1.187077		14.2	13.5	13.85	1	0	14.2	1	0	0			0	0
	360632008		1.216684	1.218038		10.3	9.8	10.05	1	0	10.3	1	0	0			0	0
	360671015		1.232274	1.234947		8.7	8.5	8.6	1	0	8.7	1	0	0			0	0
	360710002		1.223831	1.22508		10	9.3	9.65	1	0	10	1	0	0			0	0
	360810124		1.202369	1.201705		11.3	10.6	10.95	1	0	11.3	1	0	0			0	0
	360850055		1.221101	1.221005		12.4	11.6	12	1	0	12.4	1	0	0			0	0
	360850067		1.218717	1.218557		10.9	10.2	10.55	1	0	10.9	1	0	0			0	0
	360893001		1.162679	1.166415		6	5.8	5.9	1	0	6	1	0	0			0	0
	361010003		1.30246	1.306407		8.1	7.7	7.9	1	0	8.1	1	0	0			0	0
	361030001		1.202505	1.202505						0			0	0			0	0
	361191002		1.220604	1.223361		11.2	10.6	10.9	1	0	11.2	1	0	0			0	0
	370010002		1.365328	1.363372		12.9	11.6	12.25	1	0	12.9	1	0	0			0	0
	370210034		1.362162	1.363147		11.2	9.9	10.55	1	0	11.2	1	0	0			0	0
	370330001		1.389884	1.38999		12.3	10.7	11.5	1	0	12.3	1	0	0			0	0
	370350004		1.388033	1.387184		14.2	12.5	13.35	1	0	14.2	1	0	0			0	0
	370370004		1.378161	1.377551		11.6	10.2	10.9	1	0	11.6	1	0	0			0	0
	370510009		1.277209	1.276498		13	11.7	12.35	1	0	13	1	0	0			0	0
	370570002		1.358102	1.357079		14.5	13	13.75	1	0	14.5	1	0	0			0	0
	370610002		1.30485	1.303955		10.5	9.6	10.05	1	0	10.5	1	0	0			0	0
	370630001		1.33563	1.333659		13.3	12.9	13.1	1	0	13.3	1	0	0			0	0
	370650004		1.311771	1.311441		11.8	10.4	11.1	1	0	11.8	1	0	0			0	0
	370670022		1.409674	1.409756		13.3	11.8	12.55	1	0	13.3	1	0	0			0	0
	370710016		1.383123	1.383285		13.3	12	12.65	1	0	13.3	1	0	0			0	0
	370810013		1.3667	1.3667		13	11.3	12.15	1	0	13	1	0	0			0	0

Annual PM Design Values
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						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 15 AND Avg DV-2012 <=15?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	15 ug/m3	15 ug/m3	Max DV-06-09	15 ug/m3	15 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	370870010		1.295409	1.294821		12.7	12.6	12.65	1	0	12.7	1	0	0			0	0
	370990006		1.363021	1.361446		11.5	10.4	10.95	1	0	11.5	1	0	0			0	0
	371070004		1.303634	1.302191		10.4	9.7	10.05	1	0	10.4	1	0	0			0	0
	371110004		1.345936	1.346154		13	11.5	12.25	1	0	13	1	0	0			0	0
	371170001		1.31318	1.312869		10.4	9.5	9.95	1	0	10.4	1	0	0			0	0
	371190010		1.34063	1.34063						0			0	0			0	0
	371190041		1.354779	1.353261		13.7	12.2	12.95	1	0	13.7	1	0	0			0	0
	371190042		1.352834	1.352355		13.9	12.6	13.25	1	0	13.9	1	0	0			0	0
	371210001		1.396495	1.397849		11.9	10.8	11.35	1	0	11.9	1	0	0			0	0
	371230001		1.367598	1.367663		11.8	10.6	11.2	1	0	11.8	1	0	0			0	0
	371290002		1.286822	1.286979		9	8.7	8.85	1	0	9	1	0	0			0	0
	371330005		1.293286	1.291284		10.1	9.5	9.8	1	0	10.1	1	0	0			0	0
	371350007		1.359585	1.36037		12.5	12.3	12.4	1	0	12.5	1	0	0			0	0
	371470005		1.303712	1.303395		11	10.4	10.7	1	0	11	1	0	0			0	0
	371550005		1.279279	1.277722		12.3	11.2	11.75	1	0	12.3	1	0	0			0	0
	371590021		1.349374	1.349374		13.6	12.3	12.95	1	0	13.6	1	0	0			0	0
	371730002		1.363147	1.36238		12.1	11	11.55	1	0	12.1	1	0	0			0	0
	371830014		1.327451	1.327789		12.7	11.2	11.95	1	0	12.7	1	0	0			0	0
	371890003		1.455314	1.453012		10.7	9.6	10.15	1	0	10.7	1	0	0			0	0
	371910005		1.281899	1.281951		12.2	11.1	11.65	1	0	12.2	1	0	0			0	0
	380070002		1.040632	1.04		4.8	4.5	4.65	1	0	4.8	1	0	0			0	0
	380130002		1.031469	1.031469						0			0	0			0	0
	380130003		1.035842	1.035842						0			0	0			0	0
	380150003		1.083607	1.085761		6.9	6.8	6.85	1	0	6.9	1	0	0			0	0
	380171004		1.091938	1.091549		8	7.8	7.9	1	0	8	1	0	0			0	0
	380530002		1.035124	1.034553		5.2				0			0	0			0	0
	380570004		1.021997	1.021595		6.5	6.2	6.35	1	0	6.5	1	0	0			0	0
	390090003		1.445741	1.444698		11.8	10.9	11.35	1	0	11.8	1	0	0			0	0
	390170016		1.318258	1.317253		14.2	13.9	14.05	1	1	14.2	1	1	0	Flag		0	1
	390170017		1.282137	1.282137						0			0	0			0	0
	390171004		1.302448	1.302926		14	14.6	14.3	1	0	14.6	1	0	0			0	0
	390230005		1.300178	1.299033		13.5	13.3	13.4	1	0	13.5	1	0	0			0	0
	390250022		1.371124	1.371124		12.8	12.3	12.55	1	0	12.8	1	0	0			0	0
	390350027		1.304641	1.306073		13.6	12.8	13.2	1	0	13.6	1	1	1		Flag	0	0
	390350034		1.309229	1.307621		12	11.6	11.8	1	0	12	1	0	0			0	0
	390350038		1.278146	1.277347		15.1	14.4	14.75	1	1	15.1	0	1	0	Flag		0	1
	390350045		1.292779	1.291255		14.3	13.6	13.95	1	1	14.3	1	1	0	Flag		0	1
	390350060		1.281648	1.278783		15	14.1	14.55	1	1	15	1	1	0	Flag		0	1
	390350065		1.298374	1.299605		14.5	14.3	14.4	1	0	14.5	1	1	1		Flag	0	0
	390351002		1.294872	1.293286		12.3	12.1	12.2	1	0	12.3	1	0	0			0	0
	390490024		1.325521	1.323651		13.7	13	13.35	1	0	13.7	1	0	0			0	0
	390490025		1.333333	1.333046		13.6	12.9	13.25	1	0	13.6	1	0	0			0	0
	390490081		1.340505	1.340505		12.3	11.7	12	1	0	12.3	1	0	0			0	0
	390570005		1.338677	1.336292		12.3	12.1	12.2	1	0	12.3	1	0	0			0	0
	390610006		1.34056	1.34056		13.5	13.1	13.3	1	0	13.5	1	0	0			0	0
	390610014		1.314829	1.316066		15.7	15	15.35	0	1	15.7	0	1	0			1	1
	390610040		1.350174	1.348048		13.8	13.5	13.65	1	0	13.8	1	1	1		Flag	0	0
	390610042		1.314353	1.312785		15.1	14.7	14.9	1	1	15.1	0	1	0	Flag		0	1
	390610043		1.321155	1.318333		14.2	14.1	14.15	1	1	14.2	1	1	0	Flag		0	1
	390617001		1.333059	1.329053		14.4	13.9	14.15	1	1	14.4	1	1	0	Flag		0	1
	390618001		1.307979	1.30848		15.5	14.6	15.05	0	1	15.5	0	1	0			1	1
	390810017		1.375893	1.374222		14.8	14.2	14.5	1	0	14.8	1	0	0			0	0

Annual PM Design Values
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						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 15 AND Avg DV-2012 <=15?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	15 ug/m3	15 ug/m3	Max DV-06-09	15 ug/m3	15 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	390811001		1.380435	1.382448		14.8	13.6	14.2	1	0	14.8	1	1	1		Flag	0	0
	390851001		1.298106	1.298106		11.3				0			0	0			0	0
	390870010		1.351786	1.353199		13.4	12.9	13.15	1	0	13.4	1	0	0			0	0
	390930016		1.303571	1.304709		10.8	10.1	10.45	1	0	10.8	1	0	0			0	0
	390933002		1.255403	1.255319		11.9	11.4	11.65	1	0	11.9	1	0	0			0	0
	390950024		1.247181	1.24618		13.1	12.7	12.9	1	0	13.1	1	0	0			0	0
	390950025		1.255626	1.253927		12.6	12.9	12.75	1	0	12.9	1	0	0			0	0
	390950026		1.248227	1.246731		13.1	12.5	12.8	1	0	13.1	1	0	0			0	0
	390990005		1.299115	1.300087		13.5	12.9	13.2	1	0	13.5	1	0	0			0	0
	390990014		1.291204	1.289867		13.6	13	13.3	1	0	13.6	1	0	0			0	0
	391130031		1.298308	1.298308		13.1				0			0	0			0	0
	391130032		1.28749	1.286985		14.2	13.8	14	1	0	14.2	1	1	1		Flag	0	0
	391330002		1.312071	1.312682		12.6	12.3	12.45	1	0	12.6	1	0	0			0	0
	391351001		1.321119	1.320647		12.7	12.2	12.45	1	0	12.7	1	0	0			0	0
	391450013		1.382075	1.383038		13.5	12.3	12.9	1	0	13.5	1	0	0			0	0
	391510017		1.317292	1.316667		14.8	14.3	14.55	1	0	14.8	1	1	1		Flag	0	0
	391510020		1.290708	1.290708		12.9	12.9	12.9	1	0	12.9	1	0	0			0	0
	391530017		1.27372	1.272209		14	13.7	13.85	1	0	14	1	0	0			0	0
	391530023		1.281222	1.278947		13.1	12.7	12.9	1	0	13.1	1	0	0			0	0
	391550007		1.289264	1.287587		13.3	13.5	13.4	1	0	13.5	1	0	0			0	0
	400159008		1.142503	1.144028		8.5	8.7	8.6	1	0	8.7	1	0	0			0	0
	400219002		1.160433	1.160681		12.3	13.2	12.75	1	0	13.2	1	0	0			0	0
	400719010		1.116431	1.115546		10.1	11.4	10.75	1	0	11.4	1	0	0			0	0
	400819005		1.15376	1.15376		9.4				0			0	0			0	0
	400970186		1.132623	1.132057		11.5	11.3	11.4	1	0	11.5	1	0	0			0	0
	400979014		1.140578	1.140334		11.2	11.9	11.55	1	0	11.9	1	0	0			0	0
	401010169		1.136711	1.135084		11.6	11.5	11.55	1	0	11.6	1	0	0			0	0
	401090035		1.164162	1.163823		10	10.1	10.05	1	0	10.1	1	0	0			0	0
	401091037		1.165485	1.165509		10.1	10.4	10.25	1	0	10.4	1	0	0			0	0
	401159004		1.155138	1.157946		11.2	10.6	10.9	1	0	11.2	1	0	0			0	0
	401210415		1.159329	1.160494		11.1	11	11.05	1	0	11.1	1	0	0			0	0
	401359015		1.149558	1.149558		11.9	11.3	11.6	1	0	11.9	1	0	0			0	0
	401430110		1.143992	1.143992		11.5	11.5	11.5	1	0	11.5	1	0	0			0	0
	401431127		1.141566	1.143422		11.3	11.4	11.35	1	0	11.4	1	0	0			0	0
	420010001		1.327569	1.324561		11.9	11.6	11.75	1	0	11.9	1	0	0			0	0
	420030008		1.349867	1.347258		14	13.1	13.55	1	0	14	1	0	0			0	0
	420030021		1.357407	1.357407						0			0	0			0	0
	420030064		1.278967	1.278497		18.3	17	17.65	0	1	18.3	0	1	0			1	1
	420030067		1.407002	1.408052		11.8	11.7	11.75	1	0	11.8	1	0	0			0	0
	420030095		1.367589	1.367827		13	11.5	12.25	1	0	13	1	0	0			0	0
	420030116		1.335652	1.335652						0			0	0			0	0
	420031008		1.360393	1.358772		14.2	13.7	13.95	1	0	14.2	1	0	0			0	0
	420031301		1.339374	1.340615		15.2	14.3	14.75	1	1	15.2	0	1	0	Flag		0	1
	420033007		1.373429	1.374126		14.3	13.2	13.75	1	0	14.3	1	0	0			0	0
	420039002		1.380497	1.380497						0			0	0			0	0
	420070014		1.294862	1.293239		14.9	14.2	14.55	1	1	14.9	1	1	0	Flag		0	1
	420110011		1.237872	1.237768		13.6	12.6	13.1	1	0	13.6	1	1	1		Flag	0	0
	420170012		1.239151	1.241533		12.6	12.2	12.4	1	0	12.6	1	0	0			0	0
	420210011		1.359223	1.36284		14.4	13.4	13.9	1	0	14.4	1	0	0			0	0
	420270100		1.343849	1.339321		11.4	10.7	11.05	1	0	11.4	1	0	0			0	0
	420290100		1.25474	1.25474		13.4	13.9	13.65	1	0	13.9	1	0	0			0	0
	420410101		1.283304	1.282443		13.2	12.6	12.9	1	0	13.2	1	0	0			0	0

Annual PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 15 AND Avg DV-2012 <=15?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	15 ug/m3	15 ug/m3	Max DV-06-09	15 ug/m3	15 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	420430401		1.312229	1.309544		13.8	13.2	13.5	1	0	13.8	1	0	0			0	0
	420450002		1.225261	1.225781		14.1	13.7	13.9	1	0	14.1	1	0	0			0	0
	420490003		1.280899	1.281346		11.4	10.8	11.1	1	0	11.4	1	0	0			0	0
	420692006		1.284775	1.285111		10.7	10.2	10.45	1	0	10.7	1	0	0			0	0
	420710007		1.27898	1.280059		14.5	13.8	14.15	1	1	14.5	1	1	0	Flag		0	1
	420770004		1.227773	1.227773						0			0	0			0	0
	420791101		1.259625	1.259625						0			0	0			0	0
	420850100		1.31746	1.317354		12.2	11.7	11.95	1	0	12.2	1	0	0			0	0
	420950025		1.238009	1.23638		12.8	12.5	12.65	1	0	12.8	1	0	0			0	0
	420990301		1.284855	1.284855						0			0	0			0	0
	421010047		1.219101	1.219101		14.5	13	13.75	1	0	14.5	1	0	0			0	0
	421250005		1.393021	1.392086		14.4	13.7	14.05	1	0	14.4	1	0	0			0	0
	421250200		1.406221	1.406221		13.4	12.7	13.05	1	0	13.4	1	0	0			0	0
	421255001		1.367076	1.365095		12.3	12.4	12.35	1	0	12.4	1	0	0			0	0
	421290008		1.391734	1.390071		14.1	13.8	13.95	1	0	14.1	1	0	0			0	0
	421330008		1.284603	1.284438		14.6	13.7	14.15	1	1	14.6	1	1	0	Flag		0	1
	440070022		1.172293	1.172293		9.6	8.9	9.25	1	0	9.6	1	0	0			0	0
	440070026		1.159503	1.159813		11.4	10.5	10.95	1	0	11.4	1	0	0			0	0
	440070028		1.165948	1.164743		10	9.4	9.7	1	0	10	1	0	0			0	0
	440071010		1.177936	1.178571		9.2	8.8	9	1	0	9.2	1	0	0			0	0
	450130007		1.261774	1.261853		10.8	10.7	10.75	1	0	10.8	1	0	0			0	0
	450190048		1.245918	1.245509		11	9.9	10.45	1	0	11	1	0	0			0	0
	450190049		1.254054	1.254507		10.3	9.5	9.9	1	0	10.3	1	0	0			0	0
	450250001		1.28777	1.289181		12.1	11	11.55	1	0	12.1	1	0	0			0	0
	450370001		1.262248	1.262264		12.6	11.4	12	1	0	12.6	1	0	0			0	0
	450410002		1.273461	1.274274		12.1	11.3	11.7	1	0	12.1	1	0	0			0	0
	450430009		1.247573	1.247582		12.4	12.3	12.35	1	0	12.4	1	0	0			0	0
	450450008		1.301997	1.301717		14.2	12.6	13.4	1	0	14.2	1	0	0			0	0
	450450009		1.3243	1.323214		13.7	12.3	13	1	0	13.7	1	0	0			0	0
	450470003		1.317429	1.318576		13.2	12.9	13.05	1	0	13.2	1	0	0			0	0
	450510002		1.264489	1.265349		11.7	11.8	11.75	1	0	11.8	1	0	0			0	0
	450630008		1.258813	1.258981		13.7	12.1	12.9	1	0	13.7	1	0	0			0	0
	450730001		1.398467	1.399751		10.5	9.3	9.9	1	0	10.5	1	0	0			0	0
	450790007		1.281664	1.281599		13.2	12.8	13	1	0	13.2	1	0	0			0	0
	450790019		1.266904	1.265324		13.3	12.1	12.7	1	0	13.3	1	0	0			0	0
	450830010		1.339319	1.339252		13.3	11.8	12.55	1	0	13.3	1	0	0			0	0
	460110002		1.11415	1.115297		8.5	8.4	8.45	1	0	8.5	1	0	0			0	0
	460130003		1.092088	1.091377		7.9	7.9	7.9	1	0	7.9	1	0	0			0	0
	460290002		1.091496	1.091869		9.5	9	9.25	1	0	9.5	1	0	0			0	0
	460330132		1.038674	1.038674		5.5	5.5	5.5	1	0	5.5	1	0	0			0	0
	460710001		1.048638	1.048077		5.4	4.9	5.15	1	0	5.4	1	0	0			0	0
	460990006		1.127353	1.126898		9.6	9.4	9.5	1	0	9.6	1	0	0			0	0
	460990007		1.129717	1.131336		9.1	8.7	8.9	1	0	9.1	1	0	0			0	0
	461030016		1.065527	1.066011		7.8				0			0	0			0	0
	461030020		1.060459	1.061298		8.4	7.4	7.9	1	0	8.4	1	0	0			0	0
	461031001		1.062409	1.062139		7.2	6.6	6.9	1	0	7.2	1	0	0			0	0
	470090011		1.324074	1.32642		14.1	12.9	13.5	1	0	14.1	1	0	0			0	0
	470370023		1.321528	1.322521		13.2	11.9	12.55	1	0	13.2	1	0	0			0	0
	470370025		1.335893	1.337143		14.2	14.2	14.2	1	0	14.2	1	0	0			0	0
	470370036		1.360965	1.359162		12.1	10.9	11.5	1	0	12.1	1	0	0			0	0
	470450004		1.327568	1.331568		11.4	10.7	11.05	1	0	11.4	1	0	0			0	0
	470650031		1.317447	1.318817		14.2	12.7	13.45	1	0	14.2	1	0	0			0	0

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						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 15 AND Avg DV-2012 <=15?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	15 ug/m3	15 ug/m3	Max DV-06-09	15 ug/m3	15 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	470651011		1.377149	1.379379		13.1	11.8	12.45	1	0	13.1	1	0	0			0	0
	470654002		1.338366	1.340088		14.5	12.9	13.7	1	0	14.5	1	0	0			0	0
	470930028		1.334771	1.33503		14.8	13	13.9	1	0	14.8	1	0	0			0	0
	470931017		1.326548	1.329103		14.8	13.4	14.1	1	0	14.8	1	0	0			0	0
	470931020		1.345745	1.346867		14	12.8	13.4	1	0	14	1	0	0			0	0
	470990002		1.322398	1.322792		11.3	10.1	10.7	1	0	11.3	1	0	0			0	0
	471050108		1.312712	1.313283		14.9	13.7	14.3	1	0	14.9	1	0	0			0	0
	471071002		1.336763	1.336364		14.1	12.9	13.5	1	0	14.1	1	0	0			0	0
	471192007		1.321	1.323213		12.3	10.9	11.6	1	0	12.3	1	0	0			0	0
	471251009		1.338835	1.33815		12.7	11.5	12.1	1	0	12.7	1	0	0			0	0
	471410001		1.37269	1.37269		14.8				0			0	0			0	0
	471450004		1.349162	1.348858		14	12.9	13.45	1	0	14	1	0	0			0	0
	471570014		1.297067	1.294836		12.6	11.3	11.95	1	0	12.6	1	0	0			0	0
	471570038		1.302619	1.306064		12.1	11.7	11.9	1	0	12.1	1	0	0			0	0
	471570047		1.304099	1.300943		12.5	11.3	11.9	1	0	12.5	1	0	0			0	0
	471571004		1.323077	1.320219		11.3	11.3	11.3	1	0	11.3	1	0	0			0	0
	471631007		1.356322	1.356473		13.3	12	12.65	1	0	13.3	1	0	0			0	0
	471650007		1.397344	1.399798		12.7	11.5	12.1	1	0	12.7	1	0	0			0	0
	480370004		1.175663	1.177273		12.3	11.3	11.8	1	0	12.3	1	0	0			0	0
	481130069		1.174129	1.173206		10.9	10.6	10.75	1	0	10.9	1	0	0			0	0
	481130087		1.18617	1.185904		10	9.9	9.95	1	0	10	1	0	0			0	0
	481350003		1.092697	1.093023		8.3	8.1	8.2	1	0	8.3	1	0	0			0	0
	481410037		1.061916	1.061916		8.9	8.7	8.8	1	0	8.9	1	0	0			0	0
	482010058		1.149414	1.149351		10.7	10.9	10.8	1	0	10.9	1	0	0			0	0
	482011035		1.12637	1.1266		15.2	14.1	14.65	1	0	15.2	0	1	1			0	1
	482030002		1.202675	1.203061		11	10.3	10.65	1	0	11	1	0	0			0	0
	482150043		1.109091	1.108242		10.9	10.9	10.9	1	0	10.9	1	0	0			0	0
	482450021		1.151	1.151545		11.3	11	11.15	1	0	11.3	1	0	0			0	0
	483550032		1.170787	1.170075		10.8	10.5	10.65	1	0	10.8	1	0	0			0	0
	483611001		1.154463	1.153543		10.7	10.1	10.4	1	0	10.7	1	0	0			0	0
	484391002		1.176289	1.175474		10.7	10.4	10.55	1	0	10.7	1	0	0			0	0
	484391006		1.169216	1.168796		11.2	10.9	11.05	1	0	11.2	1	0	0			0	0
	500010002		1.140306	1.140306		7.8				0			0	0			0	0
	500010003		1.139386	1.139386		7.8				0			0	0			0	0
	500030004		1.168724	1.170351		7.5	7.3	7.4	1	0	7.5	1	0	0			0	0
	500070012		1.137423	1.136742		8.3	7.9	8.1	1	0	8.3	1	0	0			0	0
	500070014		1.133484	1.133484		9.1				0			0	0			0	0
	500210002		1.12831	1.128803		10.6	10.4	10.5	1	0	10.6	1	0	0			0	0
	510130020		1.296094	1.293805		12.9	11.9	12.4	1	0	12.9	1	0	0			0	0
	510360002		1.362335	1.36096		11.5	10.3	10.9	1	0	11.5	1	0	0			0	0
	510410003		1.360324	1.359		12.4	11.2	11.8	1	0	12.4	1	0	0			0	0
	510590030		1.3133	1.310511		12.1	11.1	11.6	1	0	12.1	1	0	0			0	0
	510591005		1.308357	1.306452		12.4	11.3	11.85	1	0	12.4	1	0	0			0	0
	510595001		1.297196	1.295413		12.7	11.7	12.2	1	0	12.7	1	0	0			0	0
	510870014		1.363269	1.362562		12.1	10.8	11.45	1	0	12.1	1	0	0			0	0
	510870015		1.368254	1.367368		11.8	10.6	11.2	1	0	11.8	1	0	0			0	0
	511071005		1.307322	1.308851		12.2	11.2	11.7	1	0	12.2	1	0	0			0	0
	511390004		1.39173	1.395223		11.7	10.6	11.15	1	0	11.7	1	0	0			0	0
	515200006		1.4	1.401401		12.7	11.2	11.95	1	0	12.7	1	0	0			0	0
	516500004		1.302998	1.30137		11.4	10.3	10.85	1	0	11.4	1	0	0			0	0
	516800015		1.379162	1.380042		11.9	10.5	11.2	1	0	11.9	1	0	0			0	0
	517100024		1.287009	1.286845		12.5	11.5	12	1	0	12.5	1	0	0			0	0

Annual PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 15 AND Avg DV-2012 <=15?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	15 ug/m3	15 ug/m3	Max DV-06-09	15 ug/m3	15 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	517700014		1.372115	1.369915		13.4	13.1	13.25	1	0	13.4	1	0	0			0	0
	517750010		1.346471	1.346471		12				0			0	0			0	0
	518100008		1.288981	1.28791		11.9	10.7	11.3	1	0	11.9	1	0	0			0	0
	540030003		1.280547	1.282884		14.9	14	14.45	1	0	14.9	1	1	1		Flag	0	0
	540090005		1.374376	1.372549		15.4	14.4	14.9	1	0	15.4	0	1	1			0	1
	540090011		1.387543	1.386113		14.9	14	14.45	1	0	14.9	1	0	0			0	0
	540110006		1.348222	1.349349		15.2	14.3	14.75	1	1	15.2	0	1	0	Flag		0	1
	540291004		1.372822	1.369547		14.3	13.4	13.85	1	0	14.3	1	1	1		Flag	0	0
	540330003		1.407445	1.407738		13.4	12.5	12.95	1	0	13.4	1	0	0			0	0
	540390010		1.406685	1.408425		14.2	13.1	13.65	1	0	14.2	1	0	0			0	0
	540390011		1.425325	1.425325		11	9.6	10.3	1	0	11	1	0	0			0	0
	540391005		1.380117	1.379052		15.4	14.4	14.9	1	1	15.4	0	1	0	Flag		0	1
	540490006		1.392956	1.393967		14.5	13.6	14.05	1	0	14.5	1	1	1		Flag	0	0
	540511002		1.414339	1.412903		14.2	13.4	13.8	1	0	14.2	1	0	0			0	0
	540610003		1.433566	1.42843		13.6	12.7	13.15	1	0	13.6	1	0	0			0	0
	540690010		1.436453	1.436453		13.7	13.2	13.45	1	0	13.7	1	0	0			0	0
	540810002		1.431743	1.433443		11.9	11	11.45	1	0	11.9	1	0	0			0	0
	541071002		1.350877	1.350831		14.6	13.7	14.15	1	0	14.6	1	0	0			0	0
	550030010		1.111722	1.112903		6.3	6	6.15	1	0	6.3	1	0	0			0	0
	550090005		1.11122	1.110487		11.9	11.4	11.65	1	0	11.9	1	0	0			0	0
	550250047		1.149859	1.148955		12.6	12.4	12.5	1	0	12.6	1	0	0			0	0
	550270007		1.16333	1.162023		11.1	10.6	10.85	1	0	11.1	1	0	0			0	0
	550410007		1.124431	1.124431		7.1	6.7	6.9	1	0	7.1	1	0	0			0	0
	550430009		1.155882	1.155807		12.3	12.2	12.25	1	0	12.3	1	0	0			0	0
	550590019		1.177974	1.176524		12.7	12.2	12.45	1	0	12.7	1	0	0			0	0
	550710007		1.125828	1.127329		10.7	10.4	10.55	1	0	10.7	1	0	0			0	0
	550790010		1.157255	1.155887		13.4	13	13.2	1	0	13.4	1	0	0			0	0
	550790026		1.16036	1.160235		13.5	12.9	13.2	1	0	13.5	1	0	0			0	0
	550790043		1.152209	1.151181		13.9	13	13.45	1	0	13.9	1	0	0			0	0
	550790059		1.151515	1.15182		14.5	13.6	14.05	1	0	14.5	1	0	0			0	0
	550790099		1.15234	1.152		14	13.1	13.55	1	0	14	1	0	0			0	0
	550870009		1.121801	1.122549		11.4	11	11.2	1	0	11.4	1	0	0			0	0
	550890009		1.16	1.159393		11.9	11.4	11.65	1	0	11.9	1	0	0			0	0
	551091002		1.119867	1.119867		10.3	10.3	10.3	1	0	10.3	1	0	0			0	0
	551110007		1.168	1.167956		10.5	10.4	10.45	1	0	10.5	1	0	0			0	0
	551198001		1.124147	1.124		9	8.8	8.9	1	0	9	1	0	0			0	0
	551250001		1.122517	1.122549		6.9	6.6	6.75	1	0	6.9	1	0	0			0	0
	551330027		1.138298	1.137193		13.9	13.2	13.55	1	0	13.9	1	0	0			0	0
	560050877		1.022764	1.022764		6	5.8	5.9	1	0	6	1	0	0			0	0
	560050892		1.01626	1.016129		5.7	5.6	5.65	1	0	5.7	1	0	0			0	0
	560050899		1.022857	1.022346		5.3	5.4	5.35	1	0	5.4	1	0	0			0	0
	560090819		1.032258	1.034483		3.8	3.7	3.75	1	0	3.8	1	0	0			0	0
	560131003		1.040764	1.041667		7.7	7.8	7.75	1	0	7.8	1	0	0			0	0
	560210001		1.059102	1.061086		4.4	4.2	4.3	1	0	4.4	1	0	0			0	0
	560330002		1.037433	1.037975		9.1	8.6	8.85	1	0	9.1	1	0	0			0	0
					Counts:	20	5	8	656	32	21	643	48	16	27	13	5	35
						>=15.05	>=15.05	>=15.05			>=15.05							
											13							

ALPINE GEOPHYSICS

ENVIRON

Table F-3. Data Supporting Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule; Daily PM Design Values

Daily PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

																RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	010030010	Alabama	Baldwin	26.2	27.5		24.9	26.1		24.1	25.2		20.3	21.1		1.052209	1.05364		1.087137	1.09127
	010270001	Alabama	Clay	31.8	32.4		27.6	29.0		25.7	27.2		21.5	22.9		1.152174	1.117241		1.237354	1.191176
	010331002	Alabama	Colbert	30.4	30.4		28.0	28.7		26.5	27.3		19.7	21.1		1.085714	1.059233		1.14717	1.113553
	010491003	Alabama	DeKalb	32.0	32.6		27.2	27.8		25.3	25.7		21.2	21.5		1.176471	1.172662		1.264822	1.268482
	010530002	Alabama	Escambia	29.0	29.7		27.0	27.8		26.1	26.8		22.7	23.2		1.074074	1.068345		1.111111	1.108209
	010550010	Alabama	Etowah	35.1	35.7		29.4	29.5		27.8	27.8		23.2	23.3		1.193878	1.210169		1.26259	1.284173
	010690003	Alabama	Houston	28.6	28.6		26.3	26.3		25.3	25.3		22.7	22.7		1.087452	1.087452		1.130435	1.130435
	010730023	Alabama	Jefferson	44.0	44.2		40.0	40.7		38.8	39.6		35.6	36.8		1.1	1.085995		1.134021	1.116162
	010731005	Alabama	Jefferson	34.8	35.5		31.3	31.8		29.8	30.2		25.7	26.0		1.111821	1.116352		1.167785	1.175497
	010731009	Alabama	Jefferson	34.5	34.9		31.5	32.5		29.9	31.2		25.0	26.5		1.095238	1.073846		1.153846	1.11859
	010731010	Alabama	Jefferson	34.1	34.3		29.1	29.3		27.6	27.8		22.9	23.2		1.171821	1.170648		1.235507	1.233813
	010732003	Alabama	Jefferson	40.3	40.8		38.1	38.9		37.2	37.9		34.4	35.0		1.057743	1.048843		1.083333	1.076517
	010732006	Alabama	Jefferson	33.1	34.1		29.8	30.4		28.5	28.9		23.7	24.1		1.110738	1.121711		1.161404	1.179931
	010735002	Alabama	Jefferson	33.0	34.8		29.4	30.7		27.6	28.9		22.2	24.0		1.122449	1.13355		1.195652	1.204152
	010735003	Alabama	Jefferson	35.8	36.5		32.1	33.2		30.5	31.8		25.1	26.1		1.115265	1.099398		1.17377	1.147799
	010890014	Alabama	Madison	33.5	34.1		30.3	30.5		28.4	28.6		21.7	22.4		1.105611	1.118033		1.179577	1.192308
	010970002	Alabama	Mobile	30.0	30.0		28.3	28.3		26.8	26.8		23.7	23.7		1.060071	1.060071		1.119403	1.119403
	010970003	Alabama	Mobile	28.5	29.4		27.2	27.9		25.8	26.5		22.5	23.1		1.047794	1.053763		1.104651	1.109434
	010972005	Alabama	Mobile	26.4	27.9		24.7	26.2		23.5	24.9		19.4	20.5		1.068826	1.064885		1.123404	1.120482
	011010007	Alabama	Montgomery	32.0	33.5		29.2	30.0		28.0	28.5		23.8	24.0		1.09589	1.116667		1.142857	1.175439
	011030011	Alabama	Morgan	31.5	31.9		27.8	28.2		25.9	26.2		19.1	19.6		1.133094	1.131206		1.216216	1.217557
	011130001	Alabama	Russell	35.5	36.9		32.8	33.8		31.4	32.3		28.4	29.4		1.082317	1.091716		1.130573	1.142415
	011170006	Alabama	Shelby	32.0	32.8		28.8	29.0		27.4	27.4		22.8	23.4		1.111111	1.131034		1.167883	1.19708
	011190002	Alabama	Sumter	28.9	28.9		26.6	26.6		25.1	25.1		20.7	20.7		1.086466	1.086466		1.151394	1.151394
	011210002	Alabama	Talladega	33.4	33.4		28.2	28.2		26.5	26.5		22.5	22.5		1.184397	1.184397		1.260377	1.260377
	011250004	Alabama	Tuscaloosa	29.8	30.1		27.3	28.1		26.2	27.1		22.2	23.3		1.091575	1.071174		1.137405	1.110701
	011270002	Alabama	Walker	32.8	33.3		27.7	29.7		26.3	28.8		22.3	24.7		1.184116	1.121212		1.247148	1.15625
	050010011	Arkansas	Arkansas	29.1	29.6		28.8	29.3		27.8	28.2		21.7	22.0		1.010417	1.010239		1.046763	1.049645
	050030005	Arkansas	Ashley	28.9	29.9		28.4	29.2		27.3	28.0		23.8	24.5		1.017606	1.023973		1.058608	1.067857
	050350005	Arkansas	Crittenden	35.0	35.0		34.3	34.3		32.7	32.7		22.3	22.3		1.020408	1.020408		1.070336	1.070336
	050450002	Arkansas	Faulkner	29.8	30.6		28.8	29.4		27.9	28.5		23.1	23.5		1.034722	1.040816		1.0681	1.073684
	050510003	Arkansas	Garland	29.2	29.3		28.9	29.0		27.9	28.0		21.8	21.9		1.010381	1.010345		1.046595	1.046429
	050930007	Arkansas	Mississippi	30.3	30.3		30.8	30.8		29.2	29.2		22.4	22.4		0.983766	0.983766		1.037671	1.037671
	051070001	Arkansas	Phillips	29.1	30.2		28.8	29.8		27.6	28.5		21.6	23.3		1.010417	1.013423		1.054348	1.059649
	051130002	Arkansas	Polk	26.1	27.7		25.3	26.8		24.3	25.5		19.1	19.2		1.031621	1.033582		1.074074	1.086275
	051150003	Arkansas	Pope	28.3	29.1		27.5	28.0		26.6	27.0		24.3	24.5		1.029091	1.039286		1.06391	1.077778
	051190007	Arkansas	Pulaski	31.1	31.4		30.8	31.3		29.8	30.4		24.8	25.1		1.00974	1.003195		1.043624	1.032895
	051191004	Arkansas	Pulaski	31.9	32.4		30.9	31.3		29.9	30.3		26.0	26.8		1.032362	1.035144		1.06689	1.069307
	051191005	Arkansas	Pulaski	31.9	32.3		31.1	31.4		30.0	30.4		26.4	26.8		1.025723	1.028662		1.063333	1.0625
	051390006	Arkansas	Union	28.7	29.6		27.9	28.3		26.8	27.1		23.2	23.7		1.028674	1.045936		1.070896	1.092251
	051450001	Arkansas	White	29.9	31.1		29.4	30.7		28.2	29.6		22.8	23.1		1.017007	1.013029		1.060284	1.050676
	080010006	Colorado	Adams	25.3	29.2		23.9	27.8		23.4	27.3		23.8	27.7		1.058577	1.05036		1.081197	1.069597
	080050005	Colorado	Arapahoe	21.2	22.2		20.2	21.1		19.8	20.7		19.8	20.7		1.049505	1.052133		1.070707	1.072464
	080130003	Colorado	Boulder	21.1	22.3		19.9	21.0		19.5	20.6		19.7	20.8		1.060302	1.061905		1.082051	1.082524
	080130012	Colorado	Boulder	18.7	19.7		17.5	18.5		17.2	18.1		17.2	18.2		1.068571	1.064865		1.087209	1.088398
	080290004	Colorado	Delta	20.7	22.3		18.7	20.1		18.2	19.5		18.1	19.5		1.106952	1.109453		1.137363	1.14359
	080310002	Colorado	Denver	26.4	27.6		25.6	26.7		25.3	26.4		25.7	26.8		1.03125	1.033708		1.043478	1.045455
	080310023	Colorado	Denver	26.3	26.3		25.6	25.6		25.2	25.2		25.7	25.7		1.027344	1.027344		1.043651	1.043651
	080390001	Colorado	Elbert	13.1	15.1		12.4	14.2		12.2	14.0		12.1	13.9		1.056452	1.06338		1.07377	1.078571
	080410008	Colorado	El Paso	16.4	16.7		15.3	15.5		15.0	15.2		15.0	15.2		1.071895	1.077419		1.093333	1.098684

Daily PM Design Values
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															RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	080410011	Colorado	El Paso	16.5	17.4		15.5	16.3		15.2	16.0		15.2	15.9		1.064516	1.067485		1.085526	1.0875
	080690009	Colorado	Larimer	18.3	18.8		17.1	17.6		16.9	17.4		16.9	17.5		1.070175	1.068182		1.08284	1.08046
	080770017	Colorado	Mesa	23.5	24.6		22.7	23.7		22.3	23.3		22.3	23.3		1.035242	1.037975		1.053812	1.055794
	081010012	Colorado	Pueblo	15.4	15.8		14.4	14.8		14.1	14.5		14.1	14.5		1.069444	1.067568		1.092199	1.089655
	081130004	Colorado	San Miguel	10.1	11.3		9.8	11.0		9.8	11.0		9.8	11.0		1.030612	1.027273		1.030612	1.027273
	081230006	Colorado	Weld	22.9	23.9		21.4	22.5		21.2	22.3		21.5	22.6		1.070093	1.062222		1.080189	1.071749
	081230008	Colorado	Weld	20.1	23.7		18.4	21.5		18.1	21.1		18.3	21.4		1.092391	1.102326		1.110497	1.123223
	090010010	Connecticut	Fairfield	36.2	37.3		32.9	33.4		32.2	32.6		29.8	30.9		1.100304	1.116766		1.124224	1.144172
	090011123	Connecticut	Fairfield	32.2	32.7		30.4	30.8		29.8	30.1		28.3	28.6		1.059211	1.061688		1.080537	1.086379
	090013005	Connecticut	Fairfield	34.9	35.6		32.8	33.1		32.2	32.4		29.4	29.9		1.064024	1.075529		1.083851	1.098765
	090019003	Connecticut	Fairfield	34.2	36.7		30.9	32.7		30.2	31.9		26.2	26.6		1.106796	1.122324		1.13245	1.15047
	090031003	Connecticut	Hartford	31.8	32.6		28.8	29.6		28.2	28.9		25.5	26.5		1.104167	1.101351		1.12766	1.128028
	090050005	Connecticut	Litchfield	27.1	27.1		23.6	23.6		23.0	23.0		18.1	18.1		1.148305	1.148305		1.178261	1.178261
	090090026	Connecticut	New Haven	35.6	37.9		32.3	33.7		31.6	32.8		28.3	29.0		1.102167	1.124629		1.126582	1.155488
	090090027	Connecticut	New Haven	35.5	36.0		32.9	33.0		32.2	32.3		30.2	30.2		1.079027	1.090909		1.102484	1.114551
	090091123	Connecticut	New Haven	38.3	40.3		35.7	36.6		34.9	35.8		32.3	32.7		1.072829	1.101093		1.097421	1.125698
	090092008	Connecticut	New Haven	33.6	36.4		30.9	32.5		30.2	31.7		26.5	27.1		1.087379	1.12		1.112583	1.148265
	090092123	Connecticut	New Haven	34.4	34.7		31.2	32.0		30.5	31.3		28.6	29.8		1.102564	1.084375		1.127869	1.108626
	090113002	Connecticut	New London	32.0	34.4		28.4	29.8		27.7	29.1		24.4	25.4		1.126761	1.154362		1.155235	1.182131
	100010002	Delaware	Kent	32.1	32.2		28.0	28.8		27.6	28.4		25.0	26.0		1.146429	1.118056		1.163043	1.133803
	100010003	Delaware	Kent	31.5	32.4		27.1	28.2		26.6	27.9		23.9	25.8		1.162362	1.148936		1.184211	1.16129
	100031003	Delaware	New Castle	33.5	34.3		30.0	30.8		29.6	30.3		27.3	28.1		1.116667	1.113636		1.131757	1.132013
	100031007	Delaware	New Castle	32.6	34.5		28.2	29.8		27.9	29.5		26.0	27.1		1.156028	1.157718		1.168459	1.169492
	100031012	Delaware	New Castle	32.4	33.5		28.3	29.3		27.9	28.9		26.6	27.5		1.144876	1.143345		1.16129	1.15917
	100032004	Delaware	New Castle	36.6	36.7		34.1	34.2		33.7	33.7		31.7	32.1		1.073314	1.073099		1.086053	1.089021
	100051002	Delaware	Sussex	33.7	34.3		29.6	30.0		29.1	29.6		26.7	27.6		1.138514	1.143333		1.158076	1.158784
	110010041	District Of Columbi	District of Columbia	36.3	37.8		34.0	35.6		33.6	35.3		31.2	32.9		1.067647	1.061798		1.080357	1.070822
	110010042	District Of Columbi	District of Columbia	34.9	37.0		33.0	35.6		32.7	35.5		30.5	33.2		1.057576	1.039326		1.067278	1.042254
	110010043	District Of Columbi	District of Columbia	34.1	34.8		32.5	33.5		32.3	33.4		30.0	31.3		1.049231	1.038806		1.055728	1.041916
	120010023	Florida	Alachua	23.4	27.6		21.0	24.7		20.3	23.8		17.2	20.5		1.114286	1.117409		1.152709	1.159664
	120010024	Florida	Alachua	21.9	25.0		19.5	22.2		18.8	21.5		16.1	18.0		1.123077	1.126126		1.164894	1.162791
	120051004	Florida	Bay	28.4	29.2		26.2	26.7		25.2	25.8		23.0	23.7		1.083969	1.093633		1.126984	1.131783
	120090007	Florida	Brevard	20.7	22.0		18.2	19.4		17.7	18.8		16.4	17.4		1.137363	1.134021		1.169492	1.170213
	120111002	Florida	Broward	18.8	20.3		17.5	18.7		16.9	18.1		15.9	17.1		1.074286	1.085561		1.112426	1.121547
	120112004	Florida	Broward	19.1	20.3		18.2	19.0		17.6	18.5		16.9	17.6		1.049451	1.068421		1.085227	1.097297
	120113002	Florida	Broward	18.4	18.4		16.8	16.8		16.3	16.3		15.4	15.4		1.095238	1.095238		1.128834	1.128834
	120170005	Florida	Citrus	21.7	21.9		19.1	19.3		18.3	18.4		16.0	16.2		1.136126	1.134715		1.185792	1.190217
	120310098	Florida	Duval	24.6	25.8		22.2	23.1		21.7	22.4		20.1	20.8		1.108108	1.116883		1.133641	1.151786
	120310099	Florida	Duval	25.2	26.7		24.0	25.3		23.6	24.9		22.9	24.0		1.05	1.055336		1.067797	1.072289
	120330004	Florida	Escambia	28.8	30.6		27.5	29.2		26.8	28.1		24.2	25.0		1.047273	1.047945		1.074627	1.088968
	120570030	Florida	Hillsborough	23.6	24.0		21.5	22.1		20.8	21.3		20.2	20.7		1.097674	1.085973		1.134615	1.126761
	120573002	Florida	Hillsborough	23.2	23.9		20.9	21.2		20.2	20.6		19.3	19.7		1.110048	1.127358		1.148515	1.160194
	120710005	Florida	Lee	17.8	18.2		16.0	16.2		15.3	15.5		14.2	14.4		1.1125	1.123457		1.163399	1.174194
	120730012	Florida	Leon	29.0	31.5		26.3	28.2		25.5	27.2		23.0	24.4		1.102662	1.117021		1.137255	1.158088
	120814012	Florida	Manatee	19.9	20.2		16.2	16.6		15.7	16.0		14.4	14.6		1.228395	1.216867		1.267516	1.2625
	120830003	Florida	Marion	23.2	24.1		20.8	21.3		20.1	20.7		18.1	18.4		1.115385	1.131455		1.154229	1.164251
	120861016	Florida	Miami-Dade	19.4	19.5		18.6	18.7		18.2	18.3		17.5	17.5		1.043011	1.042781		1.065934	1.065574
	120866001	Florida	Miami-Dade	19.0	19.3		17.5	17.7		16.8	17.1		15.4	15.7		1.085714	1.090395		1.130952	1.128655
	120951004	Florida	Orange	21.7	21.8		19.1	19.3		18.4	18.6		17.3	17.6		1.136126	1.129534		1.179348	1.172043
	120952002	Florida	Orange	21.6	22.5		18.9	19.5		18.1	18.7		17.0	17.6		1.142857	1.153846		1.19337	1.203209

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															RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	120990009	Florida	Palm Beach	18.9	18.9		18.2	18.2		17.6	17.6		16.5	16.5		1.038462	1.038462		1.073864	1.073864
	120992005	Florida	Palm Beach	18.2	18.4		16.7	17.1		16.2	16.5		15.2	15.7		1.08982	1.076023		1.123457	1.115152
	121030018	Florida	Pinellas	21.9	23.0		20.0	20.6		19.5	20.0		18.9	19.2		1.095	1.116505		1.123077	1.15
	121031009	Florida	Pinellas	21.2	22.0		18.1	18.8		17.8	18.4		16.8	17.4		1.171271	1.170213		1.191011	1.195652
	121056006	Florida	Polk	19.5	19.9		17.7	18.2		17.0	17.5		16.0	16.5		1.101695	1.093407		1.147059	1.137143
	121111002	Florida	St. Lucie	18.7	19.5		16.9	17.6		16.2	16.9		14.3	14.9		1.106509	1.107955		1.154321	1.153846
	121150013	Florida	Sarasota	19.8	20.3		17.2	17.6		16.5	16.9		14.9	15.3		1.151163	1.153409		1.2	1.201183
	121171002	Florida	Seminole	22.8	23.0		19.2	19.4		18.2	18.5		16.3	16.5		1.1875	1.185567		1.252747	1.243243
	121275002	Florida	Volusia	22.6	25.8		19.2	21.7		18.1	20.4		15.4	16.8		1.177083	1.18894		1.248619	1.264706
	130210007	Georgia	Bibb	33.5	33.6		30.2	30.7		28.5	29.5		26.4	28.0		1.109272	1.094463		1.175439	1.138983
	130210012	Georgia	Bibb	30.7	31.4		28.3	28.9		26.1	26.5		22.6	23.6		1.084806	1.086505		1.176245	1.184906
	130510017	Georgia	Chatham	28.4	28.9		26.5	26.7		25.5	25.7		23.4	23.8		1.071698	1.082397		1.113725	1.124514
	130510091	Georgia	Chatham	27.9	28.6		25.9	26.6		24.9	25.4		23.3	23.6		1.07722	1.075188		1.120482	1.125984
	130630091	Georgia	Clayton	35.8	37.7		32.2	33.4		31.2	31.9		28.4	28.9		1.111801	1.128743		1.147436	1.181818
	130670003	Georgia	Cobb	35.0	36.3		31.1	31.8		29.6	29.7		26.8	27.0		1.125402	1.141509		1.182432	1.222222
	130670004	Georgia	Cobb	34.1	35.7		29.5	30.7		27.0	28.2		24.6	25.7		1.155932	1.162866		1.262963	1.265957
	130890002	Georgia	DeKalb	33.4	33.7		29.2	29.7		28.0	28.5		25.9	26.2		1.143836	1.13468		1.192857	1.182456
	130892001	Georgia	DeKalb	33.9	35.4		31.0	32.3		29.7	31.1		28.0	29.5		1.093548	1.095975		1.141414	1.138264
	130950007	Georgia	Dougherty	34.1	35.2		31.6	32.6		30.4	31.7		27.6	28.9		1.079114	1.079755		1.121711	1.11041
	131150005	Georgia	Floyd	35.1	36.4		31.2	32.4		29.9	31.3		27.0	28.2		1.125	1.123457		1.173913	1.162939
	131210032	Georgia	Fulton	34.1	35.0		30.8	31.8		29.4	30.7		27.7	29.3		1.107143	1.100629		1.159864	1.140065
	131210039	Georgia	Fulton	37.6	37.6		34.3	34.3		31.7	31.7		30.1	30.1		1.09621	1.09621		1.18612	1.18612
	131270006	Georgia	Glynn	26.1	26.7		24.5	24.9		23.5	23.9		21.4	21.7		1.065306	1.072289		1.110638	1.117155
	131350002	Georgia	Gwinnett	32.8	35.0		29.2	29.9		28.1	28.7		25.6	26.6		1.123288	1.170569		1.16726	1.219512
	131390003	Georgia	Hall	30.6	31.7		29.1	29.3		26.4	26.9		24.8	25.6		1.051546	1.081911		1.159091	1.178439
	131530001	Georgia	Houston	29.6	30.6		26.7	28.9		24.8	27.4		21.9	25.4		1.108614	1.058824		1.193548	1.116788
	131850003	Georgia	Lowndes	25.9	26.3		23.8	25.1		22.9	24.4		20.8	22.5		1.088235	1.047809		1.131004	1.077869
	132150001	Georgia	Muscogee	31.3	32.9		29.1	29.8		28.0	28.3		26.0	26.2		1.075601	1.104027		1.117857	1.162544
	132150008	Georgia	Muscogee	34.5	37.6		30.3	32.3		28.5	30.0		25.4	25.8		1.138614	1.164087		1.210526	1.253333
	132150011	Georgia	Muscogee	30.4	30.9		27.7	28.1		26.4	26.7		24.7	24.9		1.097473	1.099644		1.151515	1.157303
	132230003	Georgia	Paulding	33.0	33.3		27.5	28.0		25.7	26.4		22.6	23.3		1.2	1.189286		1.284047	1.261364
	132450005	Georgia	Richmond	32.7	33.4		31.3	31.9		30.5	31.1		29.5	30.1		1.044728	1.047022		1.072131	1.073955
	132450091	Georgia	Richmond	31.9	32.6		30.2	30.5		28.9	29.2		26.9	27.9		1.056291	1.068852		1.103806	1.116438
	132950002	Georgia	Walker	30.9	32.5		27.2	28.7		25.8	27.2		22.9	24.2		1.136029	1.132404		1.197674	1.194853
	133030001	Georgia	Washington	30.8	31.4		29.0	29.8		25.1	25.5		22.2	22.5		1.062069	1.053691		1.227092	1.231373
	133190001	Georgia	Wilkinson	33.1	33.7		31.0	31.5		28.9	29.8		26.4	28.0		1.067742	1.069841		1.145329	1.130872
	170010006	Illinois	Adams	31.4	32.3		30.8	32.0		29.2	30.2		25.5	25.8		1.019481	1.009375		1.075342	1.069536
	170190004	Illinois	Champaign	31.3	32.5		29.7	31.1		28.6	30.2		23.4	26.5		1.053872	1.045016		1.094406	1.076159
	170191001	Illinois	Champaign	30.0	31.7		28.9	30.3		27.8	29.0		24.2	26.4		1.038062	1.046205		1.079137	1.093103
	170310022	Illinois	Cook	36.6	38.6		34.9	36.6		34.3	36.0		33.2	35.0		1.048711	1.054645		1.067055	1.072222
	170310050	Illinois	Cook	36.1	38.0		34.1	35.8		32.3	33.9		30.3	32.2		1.058651	1.061453		1.117647	1.120944
	170310052	Illinois	Cook	40.2	41.4		38.5	39.7		37.3	38.2		36.6	37.4		1.044156	1.042821		1.077748	1.08377
	170310057	Illinois	Cook	37.3	38.6		35.7	37.0		34.4	35.6		31.2	32.3		1.044818	1.043243		1.084302	1.08427
	170310076	Illinois	Cook	38.0	39.1		36.3	37.3		34.8	35.5		32.3	32.7		1.046832	1.048257		1.091954	1.101408
	170311016	Illinois	Cook	43.0	46.3		41.0	44.1		39.4	42.5		37.7	41.2		1.04878	1.049887		1.091371	1.089412
	170312001	Illinois	Cook	37.7	40.6		35.6	38.2		34.4	37.1		31.6	34.5		1.058989	1.062827		1.09593	1.09434
	170313103	Illinois	Cook	39.6	40.3		38.1	38.7		37.3	37.9		35.9	36.5		1.03937	1.041344		1.061662	1.063325
	170313301	Illinois	Cook	40.2	43.3		38.2	41.0		36.8	39.7		34.9	37.3		1.052356	1.056098		1.092391	1.09068
	170314007	Illinois	Cook	34.3	36.4		33.6	35.7		32.2	34.0		30.4	32.9		1.020833	1.019608		1.065217	1.070588
	170314201	Illinois	Cook	32.0	33.8		31.1	32.9		29.2	31.3		28.1	29.6		1.028939	1.027356		1.09589	1.079872

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	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	170316005	Illinois	Cook	39.1	41.8		37.4	39.8		36.5	39.1		35.6	38.2		1.045455	1.050251		1.071233	1.069054
	170434002	Illinois	DuPage	34.6	35.9		33.7	35.2		32.9	34.6		32.1	33.7		1.026706	1.019886		1.051672	1.037572
	170650002	Illinois	Hamilton	31.6	31.6		32.1	32.1		30.2	30.2		21.9	21.9		0.984424	0.984424		1.046358	1.046358
	170831001	Illinois	Jersey	32.1	33.2		33.5	34.7		30.7	31.9		25.5	25.6		0.958209	0.956772		1.045603	1.040752
	170890003	Illinois	Kane	33.8	35.4		32.7	34.3		31.0	32.2		29.5	30.3		1.033639	1.03207		1.090323	1.099379
	170890007	Illinois	Kane	34.8	34.8		33.6	33.6		32.1	32.1		31.1	31.1		1.035714	1.035714		1.084112	1.084112
	170971007	Illinois	Lake	33.0	35.0		33.2	35.2		31.1	33.4		26.2	28.6		0.993976	0.994318		1.061093	1.047904
	170990007	Illinois	La Salle	28.9	29.9		27.8	28.8		26.4	27.3		24.5	25.3		1.039568	1.038194		1.094697	1.095238
	171110001	Illinois	McHenry	31.5	32.6		30.8	31.8		29.7	30.7		28.5	29.4		1.022727	1.025157		1.060606	1.061889
	171132003	Illinois	McLean	33.4	33.4		32.6	32.6		30.7	30.7		25.3	25.3		1.02454	1.02454		1.087948	1.087948
	171150013	Illinois	Macon	33.2	34.4		33.0	34.7		31.3	32.7		24.1	25.3		1.006061	0.991354		1.060703	1.051988
	171190023	Illinois	Madison	37.3	38.1		39.4	40.2		36.6	37.4		32.2	33.5		0.946701	0.947761		1.019126	1.018717
	171191007	Illinois	Madison	39.1	40.1		40.0	40.6		38.0	38.7		34.3	37.0		0.9775	0.987685		1.028947	1.036176
	171192009	Illinois	Madison	34.9	35.9		37.2	38.2		35.4	36.1		28.6	29.3		0.938172	0.939791		0.985876	0.99446
	171193007	Illinois	Madison	34.0	34.6		36.5	37.3		34.6	35.2		27.2	28.2		0.931507	0.927614		0.982659	0.982955
	171430037	Illinois	Peoria	32.7	34.1		34.2	35.2		30.6	32.2		28.1	29.2		0.95614	0.96875		1.068627	1.059006
	171570001	Illinois	Randolph	28.9	29.9		29.9	31.0		27.9	28.9		25.5	26.8		0.966555	0.964516		1.035842	1.034602
	171613002	Illinois	Rock Island	30.9	31.4		29.8	30.4		28.7	29.2		27.6	28.5		1.036913	1.032895		1.076655	1.075342
	171630010	Illinois	Saint Clair	33.7	34.1		35.3	35.9		32.8	33.4		29.4	30.1		0.954674	0.949861		1.027439	1.020958
	171634001	Illinois	Saint Clair	32.2	32.9		34.3	35.1		31.5	32.2		28.3	28.6		0.938776	0.937322		1.022222	1.021739
	171670012	Illinois	Sangamon	33.4	34.1		34.0	34.9		32.0	32.6		27.8	28.5		0.982353	0.977077		1.04375	1.046012
	171971002	Illinois	Will	36.4	37.1		35.1	35.8		33.6	34.4		29.6	31.1		1.037037	1.036313		1.083333	1.078488
	171971011	Illinois	Will	30.7	31.7		29.3	30.2		27.6	28.4		21.3	21.9		1.047782	1.049669		1.112319	1.116197
	172010013	Illinois	Winnebago	34.7	34.7		33.7	33.7		31.9	31.9		30.4	30.4		1.029674	1.029674		1.087774	1.087774
	180030004	Indiana	Allen	33.1	34.6		32.2	33.6		31.5	32.9		29.8	31.1		1.02795	1.029762		1.050794	1.051672
	180030014	Indiana	Allen	31.0	32.1		30.1	31.2		29.5	30.5		27.2	28.6		1.0299	1.028846		1.050847	1.052459
	180190006	Indiana	Clark	37.5	39.4		38.1	40.2		36.1	37.9		28.6	29.5		0.984252	0.9801		1.038781	1.039578
	180350006	Indiana	Delaware	32.0	33.6		32.8	34.3		31.5	32.9		26.1	26.3		0.97561	0.979592		1.015873	1.021277
	180372001	Indiana	Dubois	35.3	36.9		36.5	38.0		35.3	36.8		27.9	30.6		0.967123	0.971053		1	1.002717
	180390003	Indiana	Elkhart	34.4	36.3		33.8	35.6		32.7	34.4		29.0	30.5		1.017751	1.019663		1.051988	1.055233
	180431004	Indiana	Floyd	33.2	34.5		34.3	35.7		32.7	34.1		23.8	25.3		0.96793	0.966387		1.015291	1.01173
	180650003	Indiana	Henry	31.8	31.8		33.1	33.1		32.0	32.0		26.1	26.1		0.960725	0.960725		0.99375	0.99375
	180670003	Indiana	Howard	32.2	32.9		32.3	33.0		30.9	31.7		24.7	25.8		0.996904	0.99697		1.042071	1.037855
	180830004	Indiana	Knox	35.9	36.3		35.9	36.5		34.8	35.1		28.8	30.5		1	0.994521		1.031609	1.034188
	180890006	Indiana	Lake	34.9	35.5		33.3	33.8		32.6	33.2		31.3	32.1		1.048048	1.050296		1.070552	1.069277
	180890022	Indiana	Lake	38.9	44.0		37.3	42.1		36.4	41.1		35.3	39.8		1.042895	1.045131		1.068681	1.07056
	180890026	Indiana	Lake	38.4	41.3		36.3	39.3		34.9	38.0		32.7	35.8		1.057851	1.050891		1.100287	1.086842
	180890027	Indiana	Lake	32.6	34.2		31.2	32.8		30.3	32.0		29.0	30.8		1.044872	1.042683		1.075908	1.06875
	180890031	Indiana	Lake	34.0	34.0		33.2	33.2		31.6	31.6		27.0	27.0		1.024096	1.024096		1.075949	1.075949
	180891003	Indiana	Lake	32.7	33.5		31.4	32.1		30.6	31.5		29.5	30.3		1.041401	1.043614		1.068627	1.063492
	180892004	Indiana	Lake	32.9	33.9		31.2	32.0		30.6	31.6		29.3	30.6		1.054487	1.059375		1.075163	1.072785
	180892010	Indiana	Lake	34.2	35.6		32.8	34.0		31.9	33.2		29.0	31.0		1.042683	1.047059		1.0721	1.072289
	180910011	Indiana	LaPorte	33.6	33.6		31.8	31.8		30.3	30.3		26.6	26.6		1.056604	1.056604		1.108911	1.108911
	180910012	Indiana	LaPorte	30.6	31.8		29.2	30.0		28.1	28.9		25.7	27.2		1.047945	1.06		1.088968	1.100346
	180950009	Indiana	Madison	32.8	34.0		34.2	35.4		33.1	34.1		26.5	26.8		0.959064	0.960452		0.990937	0.997067
	180970042	Indiana	Marion	34.2	35.3		36.3	37.2		34.5	35.4		28.6	30.4		0.942149	0.948925		0.991304	0.997175
	180970043	Indiana	Marion	38.4	39.9		40.5	42.0		38.8	40.3		33.2	34.4		0.948148	0.95		0.989691	0.990074
	180970066	Indiana	Marion	38.3	39.6		40.3	41.8		38.7	40.0		31.9	33.1		0.950372	0.947368		0.989664	0.99
	180970078	Indiana	Marion	36.6	37.6		38.7	39.7		37.1	38.0		32.4	33.7		0.945736	0.947103		0.986523	0.989474
	180970079	Indiana	Marion	35.6	36.7		37.2	38.3		35.5	36.6		28.6	28.9		0.956989	0.958225		1.002817	1.002732

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	180970081	Indiana	Marion	38.2	39.2		40.1	41.1		38.7	39.7		30.9	31.0		0.952618	0.953771		0.98708	0.987406
	180970083	Indiana	Marion	36.6	37.0		39.0	39.3		37.3	37.7		29.0	29.4		0.938462	0.941476		0.981233	0.981432
	181270020	Indiana	Porter	32.5	34.6		30.9	33.4		29.4	31.9		25.7	27.1		1.05178	1.035928		1.105442	1.084639
	181270024	Indiana	Porter	31.8	32.4		30.3	31.2		29.1	29.7		27.0	27.4		1.049505	1.038462		1.092784	1.090909
	181410014	Indiana	St. Joseph	32.4	33.9		31.5	33.1		30.8	32.4		28.0	29.6		1.028571	1.024169		1.051948	1.046296
	181411008	Indiana	St. Joseph	33.1	33.1		31.3	31.3		30.4	30.4		29.0	29.0		1.057508	1.057508		1.088816	1.088816
	181412004	Indiana	St. Joseph	30.0	31.4		28.6	29.7		28.0	29.3		26.6	28.3		1.048951	1.057239		1.071429	1.071672
	181470009	Indiana	Spencer	32.3	33.1		34.0	35.3		32.5	33.8		25.3	25.9		0.95	0.937677		0.993846	0.97929
	181570008	Indiana	Tippecanoe	35.6	36.7		35.9	36.9		34.4	35.3		29.5	29.9		0.991643	0.99458		1.034884	1.03966
	181630006	Indiana	Vanderburgh	34.8	35.5		34.3	35.0		33.3	33.9		27.0	27.7		1.014577	1.014286		1.045045	1.047198
	181630012	Indiana	Vanderburgh	33.2	34.4		33.5	34.7		32.5	33.6		26.4	27.2		0.991045	0.991354		1.021538	1.02381
	181630016	Indiana	Vanderburgh	32.6	33.7		32.2	33.5		31.2	32.3		27.8	28.9		1.012422	1.00597		1.044872	1.043344
	181670018	Indiana	Vigo	35.1	35.1		35.3	35.3		33.9	33.9		32.9	32.9		0.994334	0.994334		1.035398	1.035398
	181670023	Indiana	Vigo	34.8	36.1		35.1	36.5		33.7	35.0		30.8	32.1		0.991453	0.989041		1.032641	1.031429
	190130008	Iowa	Black Hawk	30.1	30.2		28.3	28.4		27.8	28.0		27.0	27.3		1.063604	1.06338		1.082734	1.078571
	190450021	Iowa	Clinton	33.9	35.9		33.4	35.1		31.1	32.8		30.3	31.6		1.01497	1.022792		1.090032	1.094512
	191032001	Iowa	Johnson	34.6	35.2		33.2	33.9		32.6	33.2		31.1	32.7		1.042169	1.038348		1.06135	1.060241
	191130037	Iowa	Linn	30.6	33.3		30.3	32.7		28.7	31.3		27.7	30.0		1.009901	1.018349		1.066202	1.063898
	191370002	Iowa	Montgomery	27.5	27.7		26.1	26.4		25.2	25.3		22.5	23.2		1.05364	1.049242		1.09127	1.094862
	191390015	Iowa	Muscatine	36.0	37.7		34.5	36.0		33.8	35.4		32.1	33.2		1.043478	1.047222		1.065089	1.064972
	191471002	Iowa	Palo Alto	25.7	25.7		25.1	25.1		24.1	24.1		20.9	20.9		1.023904	1.023904		1.06639	1.06639
	191530030	Iowa	Polk	28.4	29.0		27.5	27.8		26.6	27.1		24.4	25.1		1.032727	1.043165		1.067669	1.070111
	191532510	Iowa	Polk	27.2	29.5		26.0	27.7		25.1	26.9		22.6	25.0		1.046154	1.064982		1.083665	1.096654
	191532520	Iowa	Polk	31.4	31.4		29.1	29.1		28.6	28.6		26.9	26.9		1.079038	1.079038		1.097902	1.097902
	191550009	Iowa	Pottawattamie	28.6	28.9		27.0	27.3		26.5	26.8		24.6	25.0		1.059259	1.058608		1.079245	1.078358
	191630015	Iowa	Scott	31.0	32.1		30.3	31.6		29.2	29.7		28.7	29.3		1.023102	1.015823		1.061644	1.080808
	191630018	Iowa	Scott	32.3	33.3		31.3	32.1		30.2	31.3		29.6	30.8		1.031949	1.037383		1.069536	1.063898
	191630019	Iowa	Scott	37.1	37.1		36.8	36.8		34.0	34.0		31.9	31.9		1.008152	1.008152		1.091176	1.091176
	191770006	Iowa	Van Buren	28.3	28.3		26.9	26.9		25.9	25.9		24.5	24.5		1.052045	1.052045		1.092664	1.092664
	191930017	Iowa	Woodbury	26.4	28.4		24.6	26.2		24.3	26.1		23.2	25.1		1.073171	1.083969		1.08642	1.088123
	191970004	Iowa	Wright	28.6	28.8		27.1	27.2		26.1	26.3		24.2	24.5		1.055351	1.058824		1.095785	1.095057
	200910007	Kansas	Johnson	25.3	26.5		24.8	25.5		23.8	24.7		22.1	23.0		1.020161	1.039216		1.063025	1.072874
	200910009	Kansas	Johnson	29.3	29.3		28.0	28.0		27.0	27.0		26.0	26.0		1.046429	1.046429		1.085185	1.085185
	200910010	Kansas	Johnson	23.5	23.6		22.6	22.6		21.5	21.6		19.7	19.8		1.039823	1.044248		1.093023	1.092593
	201070002	Kansas	Linn	25.3	26.2		24.8	25.6		23.8	24.4		21.1	21.5		1.020161	1.023438		1.063025	1.07377
	201730008	Kansas	Sedgwick	23.7	25.3		23.3	24.9		22.0	23.5		20.0	21.4		1.017167	1.016064		1.077273	1.076596
	201730009	Kansas	Sedgwick	25.0	26.4		23.2	24.3		22.7	24.0		22.4	23.7		1.077586	1.08642		1.101322	1.1
	201730010	Kansas	Sedgwick	25.3	27.0		24.1	25.6		23.3	24.8		22.7	24.1		1.049793	1.054688		1.085837	1.08871
	201770010	Kansas	Shawnee	29.1	29.1		28.1	28.1		26.7	26.7		25.1	25.1		1.035587	1.035587		1.089888	1.089888
	201770011	Kansas	Shawnee	29.1	29.1		28.0	28.0		26.7	26.7		24.2	24.2		1.039286	1.039286		1.089888	1.089888
	201910002	Kansas	Sumner	22.8	23.7		21.9	22.7		20.8	21.6		19.4	20.2		1.041096	1.044053		1.096154	1.097222
	202090021	Kansas	Wyandotte	29.5	32.1		28.4	31.0		27.6	30.1		25.4	27.3		1.038732	1.035484		1.068841	1.066445
	202090022	Kansas	Wyandotte	26.6	28.6		25.8	27.5		25.1	26.8		23.3	25.4		1.031008	1.04		1.059761	1.067164
	210130002	Kentucky	Bell	29.5	31.0		27.2	28.4		25.6	26.5		21.3	21.8		1.084559	1.091549		1.152344	1.169811
	210190017	Kentucky	Boyd	33.1	34.4		30.7	31.9		29.1	30.3		20.5	21.3		1.078176	1.07837		1.137457	1.135314
	210290006	Kentucky	Bullitt	34.6	35.8		35.0	36.3		33.1	34.2		24.0	24.6		0.988571	0.986226		1.045317	1.046784
	210370003	Kentucky	Campbell	31.2	31.2		31.1	31.1		29.9	29.9		25.8	25.8		1.003215	1.003215		1.043478	1.043478
	210430500	Kentucky	Carter	29.9	31.2		27.1	28.3		25.5	26.6		17.3	18.6		1.103321	1.102473		1.172549	1.172932
	210470006	Kentucky	Christian	33.6	33.6		33.4	33.4		31.8	31.8		20.7	20.7		1.005988	1.005988		1.056604	1.056604
	210590005	Kentucky	Daviess	33.8	33.8		37.0	37.0		34.9	34.9		21.7	21.7		0.913514	0.913514		0.968481	0.968481

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	210670012	Kentucky	Fayette	31.9	33.2		31.6	32.8		29.6	30.7		23.7	24.8		1.009494	1.012195		1.077703	1.081433
	210670014	Kentucky	Fayette	32.7	33.2		32.5	33.0		30.4	30.8		23.8	24.6		1.006154	1.006061		1.075658	1.077922
	210730006	Kentucky	Franklin	32.1	33.8		32.9	34.8		30.9	32.6		22.4	23.9		0.975684	0.971264		1.038835	1.03681
	210930006	Kentucky	Hardin	32.8	35.1		33.0	35.4		31.2	33.5		20.4	22.9		0.993939	0.991525		1.051282	1.047761
	211010014	Kentucky	Henderson	31.8	32.7		30.6	31.3		29.7	30.5		23.5	24.5		1.039216	1.044728		1.070707	1.072131
	211110043	Kentucky	Jefferson	35.4	36.1		35.8	36.4		34.3	34.8		27.2	29.4		0.988827	0.991758		1.03207	1.037356
	211110044	Kentucky	Jefferson	36.1	36.6		36.0	36.5		34.3	34.7		27.6	28.5		1.002778	1.00274		1.052478	1.054755
	211110048	Kentucky	Jefferson	36.4	37.2		35.6	36.4		34.0	34.8		26.3	27.0		1.022472	1.021978		1.070588	1.068966
	211110051	Kentucky	Jefferson	32.4	33.8		32.3	33.8		30.8	32.2		20.7	20.9		1.003096	1		1.051948	1.049689
	211170007	Kentucky	Kenton	34.7	35.4		34.7	35.3		33.4	34.0		25.3	25.7		1	1.002833		1.038922	1.041176
	211250004	Kentucky	Laurel	25.1	25.1		22.5	22.5		21.2	21.2		16.7	16.7		1.115556	1.115556		1.183962	1.183962
	211451004	Kentucky	McCracken	33.6	35.9		34.4	36.8		32.5	34.8		23.1	23.6		0.976744	0.975543		1.033846	1.031609
	211510003	Kentucky	Madison	30.1	30.9		27.3	27.8		25.6	26.3		19.5	21.5		1.102564	1.111511		1.175781	1.174905
	211930003	Kentucky	Perry	28.5	29.8		25.3	26.4		23.7	24.7		17.7	18.5		1.126482	1.128788		1.202532	1.206478
	211950002	Kentucky	Pike	30.5	31.4		27.3	28.1		25.9	26.7		19.2	20.2		1.117216	1.117438		1.177606	1.17603
	212270007	Kentucky	Warren	33.1	35.1		33.7	36.3		31.6	34.0		21.6	24.2		0.982196	0.966942		1.047468	1.032353
	220171002	Louisiana	Caddo	27.5	27.5		25.9	25.9		24.8	24.8		22.3	22.3		1.061776	1.061776		1.108871	1.108871
	220190009	Louisiana	Calcasieu	24.2	25.8		23.9	25.5		23.1	24.7		19.9	21.4		1.012552	1.011765		1.047619	1.044534
	220190010	Louisiana	Calcasieu	26.3	27.2		25.8	26.6		24.9	25.7		21.3	22.1		1.01938	1.022556		1.056225	1.058366
	220290003	Louisiana	Concordia	26.1	26.1		25.9	25.9		24.9	24.9		20.1	20.1		1.007722	1.007722		1.048193	1.048193
	220330009	Louisiana	East Baton Rouge	29.3	30.5		27.8	28.8		26.5	27.6		25.0	26.1		1.053957	1.059028		1.10566	1.105072
	220331001	Louisiana	East Baton Rouge	25.4	26.1		24.3	24.8		23.2	23.6		21.1	21.6		1.045267	1.052419		1.094828	1.105932
	220470005	Louisiana	Iberville	28.6	29.3		27.1	27.7		25.5	26.1		24.9	25.7		1.055351	1.057762		1.121569	1.122605
	220470009	Louisiana	Iberville	26.1	27.8		25.0	26.3		23.8	25.0		20.3	21.3		1.044	1.057034		1.096639	1.112
	220511001	Louisiana	Jefferson	27.0	27.9		26.1	27.0		24.9	25.8		21.9	22.7		1.034483	1.033333		1.084337	1.081395
	220550006	Louisiana	Lafayette	24.2	24.4		23.8	23.8		22.5	22.6		18.1	18.2		1.016807	1.02521		1.075556	1.079646
	220730004	Louisiana	Ouachita	28.9	30.6		28.3	29.9		27.4	28.9		23.0	24.0		1.021201	1.023411		1.054745	1.058824
	220790002	Louisiana	Rapides	30.2	34.3		29.8	33.8		28.5	32.4		22.8	25.9		1.013423	1.014793		1.059649	1.058642
	221050001	Louisiana	Tangipahoa	29.6	30.3		27.7	28.1		26.2	26.7		23.5	24.6		1.068592	1.078292		1.129771	1.134831
	221090001	Louisiana	Terrebonne	26.2	26.4		25.1	25.6		23.7	24.2		19.7	19.9		1.043825	1.03125		1.105485	1.090909
	221210001	Louisiana	West Baton Rouge	29.0	29.8		27.5	28.2		26.3	27.0		25.0	26.0		1.054545	1.056738		1.102662	1.103704
	230010011	Maine	Androscoggin	26.5	29.0		24.9	26.9		24.5	26.6		23.7	25.4		1.064257	1.078067		1.081633	1.090226
	230030013	Maine	Aroostook	24.2	25.4		23.4	24.6		23.0	24.2		22.5	23.8		1.034188	1.03252		1.052174	1.049587
	230031011	Maine	Aroostook	22.9	24.3		21.7	23.1		21.3	22.7		20.5	22.2		1.0553	1.051948		1.075117	1.070485
	230050015	Maine	Cumberland	27.7	30.1		25.2	27.9		24.7	27.2		23.8	26.3		1.099206	1.078853		1.121457	1.106618
	230050027	Maine	Cumberland	29.2	31.1		26.7	28.4		26.0	27.7		25.2	26.8		1.093633	1.09507		1.123077	1.122744
	230090103	Maine	Hancock	19.4	19.7		15.9	16.1		15.8	16.0		13.9	14.0		1.220126	1.223602		1.227848	1.23125
	230110016	Maine	Kennebec	26.2	28.1		24.4	26.2		23.9	25.6		23.0	24.6		1.07377	1.072519		1.096234	1.097656
	230172011	Maine	Oxford	28.3	30.4		26.4	27.7		25.9	27.2		24.8	26.0		1.07197	1.097473		1.092664	1.117647
	230190002	Maine	Penobscot	22.0	24.3		19.9	22.1		19.5	21.6		18.4	20.4		1.105528	1.099548		1.128205	1.125
	240030014	Maryland	Anne Arundel	33.2	33.2		29.6	29.6		29.6	29.6		27.1	27.1		1.121622	1.121622		1.121622	1.121622
	240031003	Maryland	Anne Arundel	35.5	37.4		33.8	36.7		34.4	37.5		32.9	36.1		1.050296	1.019074		1.031977	0.997333
	240032002	Maryland	Anne Arundel	36.1	36.1		33.7	33.7		33.9	33.9		32.3	32.3		1.071217	1.071217		1.064897	1.064897
	240051007	Maryland	Baltimore	33.3	34.1		31.2	32.1		31.0	32.0		28.4	29.9		1.067308	1.062305		1.074194	1.065625
	240053001	Maryland	Baltimore	35.8	37.0		33.0	33.8		33.0	33.9		31.1	31.9		1.084848	1.094675		1.084848	1.091445
	240150003	Maryland	Cecil	30.8	32.5		28.0	29.5		27.7	29.1		25.1	25.9		1.1	1.101695		1.111913	1.116838
	240251001	Maryland	Harford	31.2	31.4		26.3	26.4		26.1	26.2		23.4	23.8		1.186312	1.189394		1.195402	1.198473
	240313001	Maryland	Montgomery	30.9	31.8		27.8	28.5		27.3	27.9		24.3	24.9		1.111511	1.115789		1.131868	1.139785
	240330030	Maryland	Prince George's	31.7	31.7		28.7	28.7		28.3	28.3		23.8	23.8		1.10453	1.10453		1.120141	1.120141
	240338003	Maryland	Prince George's	33.4	34.6		29.6	30.3		29.5	30.3		25.5	26.0		1.128378	1.141914		1.132203	1.141914

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	240430009	Maryland	Washington	33.4	35.5		32.2	34.5		31.5	33.7		27.6	28.9		1.037267	1.028986		1.060317	1.053412
	245100006	Maryland	Baltimore (City)	33.3	33.8		30.5	30.8		30.5	30.7		28.6	29.0		1.091803	1.097403		1.091803	1.100977
	245100007	Maryland	Baltimore (City)	34.7	36.1		31.0	31.7		30.8	31.2		28.6	29.1		1.119355	1.138801		1.126623	1.157051
	245100008	Maryland	Baltimore (City)	37.2	37.3		34.6	34.8		34.5	34.7		33.2	33.6		1.075145	1.071839		1.078261	1.074928
	245100035	Maryland	Baltimore (City)	37.7	39.2		34.7	35.5		34.5	35.3		33.4	34.2		1.086455	1.104225		1.092754	1.110482
	245100040	Maryland	Baltimore (City)	39.0	40.9		36.3	38.3		36.1	38.0		35.0	36.8		1.07438	1.067885		1.080332	1.076316
	245100049	Maryland	Baltimore (City)	38.1	38.1		35.5	35.5		35.3	35.3		34.3	34.3		1.073239	1.073239		1.07932	1.07932
	250035001	Massachusetts	Berkshire	31.0	33.5		29.4	31.7		28.9	31.2		27.5	29.6		1.054422	1.056782		1.072664	1.073718
	250051004	Massachusetts	Bristol	25.0	26.8		21.6	22.5		21.5	22.4		19.5	20.2		1.157407	1.191111		1.162791	1.196429
	250092006	Massachusetts	Essex	28.7	33.4		26.0	30.4		25.6	30.0		23.9	27.6		1.103846	1.098684		1.121094	1.113333
	250095005	Massachusetts	Essex	27.7	29.6		24.0	25.5		23.6	25.0		20.6	22.1		1.154167	1.160784		1.173729	1.184
	250096001	Massachusetts	Essex	27.8	27.9		25.3	25.7		24.9	25.2		23.1	23.5		1.098814	1.085603		1.116466	1.107143
	250130008	Massachusetts	Hampden	27.4	27.9		25.0	25.4		24.5	24.9		22.6	23.1		1.096	1.098425		1.118367	1.120482
	250130016	Massachusetts	Hampden	32.3	33.5		30.5	31.6		29.8	30.9		28.3	29.2		1.059016	1.060127		1.083893	1.084142
	250132009	Massachusetts	Hampden	33.1	33.3		31.1	31.5		30.3	30.8		29.0	29.4		1.064309	1.057143		1.092409	1.081169
	250230004	Massachusetts	Plymouth	28.4	28.8		24.0	24.5		23.6	24.0		21.1	22.1		1.183333	1.17551		1.20339	1.2
	250250002	Massachusetts	Suffolk	29.4	29.7		27.3	27.7		27.0	27.4		26.2	26.7		1.076923	1.072202		1.088889	1.083942
	250250027	Massachusetts	Suffolk	29.2	29.5		26.9	27.0		26.7	26.8		25.8	25.9		1.085502	1.092593		1.093633	1.100746
	250250042	Massachusetts	Suffolk	28.6	29.1		26.3	26.8		25.9	26.3		25.3	25.8		1.087452	1.085821		1.104247	1.106464
	250250043	Massachusetts	Suffolk	32.1	33.9		29.6	31.3		29.2	30.9		28.4	30.0		1.084459	1.083067		1.099315	1.097087
	250270016	Massachusetts	Worcester	30.0	30.0		26.9	27.1		26.3	26.5		24.0	24.5		1.115242	1.107011		1.140684	1.132075
	250270023	Massachusetts	Worcester	30.5	30.6		27.2	27.3		26.5	26.7		25.1	25.2		1.121324	1.120879		1.150943	1.146067
	260050003	Michigan	Allegan	33.8	34.0		32.3	32.9		31.1	31.4		29.6	30.0		1.04644	1.033435		1.086817	1.082803
	260170014	Michigan	Bay	31.6	32.1		30.2	30.7		29.2	29.8		27.3	28.1		1.046358	1.045603		1.082192	1.077181
	260210014	Michigan	Berrien	31.3	32.3		29.7	30.4		28.7	29.4		26.0	27.0		1.053872	1.0625		1.090592	1.098639
	260490021	Michigan	Genesee	30.4	32.0		28.7	30.1		28.0	29.5		27.0	28.3		1.059233	1.063123		1.085714	1.084746
	260650012	Michigan	Ingham	31.9	32.1		30.6	31.0		29.7	30.0		28.2	28.8		1.042484	1.035484		1.074074	1.07
	260770008	Michigan	Kalamazoo	31.1	32.8		29.5	31.1		28.7	30.3		26.4	27.8		1.054237	1.054662		1.083624	1.082508
	260810020	Michigan	Kent	36.5	37.1		34.1	34.7		32.7	33.2		30.6	31.1		1.070381	1.069164		1.116208	1.11747
	260990009	Michigan	Macomb	35.3	35.9		33.8	34.2		33.0	33.5		31.6	32.7		1.044379	1.049708		1.069697	1.071642
	261130001	Michigan	Missaukee	24.8	25.2		24.1	24.4		22.6	22.8		19.8	19.9		1.029046	1.032787		1.097345	1.105263
	261150005	Michigan	Monroe	38.8	39.6		37.0	38.0		35.6	36.3		31.2	31.6		1.048649	1.042105		1.089888	1.090909
	261210040	Michigan	Muskegon	34.7	36.6		32.9	34.7		31.3	32.9		28.5	29.4		1.054711	1.054755		1.108626	1.112462
	261250001	Michigan	Oakland	39.9	40.4		37.9	38.4		36.9	37.2		35.1	36.2		1.05277	1.052083		1.081301	1.086022
	261390005	Michigan	Ottawa	34.2	34.7		32.7	33.3		31.9	32.3		30.7	31.2		1.045872	1.042042		1.0721	1.074303
	261450018	Michigan	Saginaw	30.6	30.6		29.3	29.3		28.2	28.2		26.0	26.0		1.044369	1.044369		1.085106	1.085106
	261470005	Michigan	St. Clair	39.6	40.6		38.4	39.4		37.6	38.7		34.7	35.4		1.03125	1.030457		1.053191	1.049096
	261610005	Michigan	Washtenaw	33.6	33.6		32.0	32.0		30.7	30.7		28.0	28.0		1.05	1.05		1.094463	1.094463
	261610008	Michigan	Washtenaw	39.4	40.8		38.1	39.8		37.0	38.7		35.6	36.2		1.034121	1.025126		1.064865	1.054264
	261630001	Michigan	Wayne	37.8	40.1		35.4	37.8		34.2	36.3		32.8	34.9		1.067797	1.060847		1.105263	1.104683
	261630015	Michigan	Wayne	40.1	40.6		38.5	39.1		37.1	37.6		34.0	34.7		1.041558	1.038363		1.080863	1.079787
	261630016	Michigan	Wayne	42.9	45.4		40.6	43.0		39.7	42.1		38.2	40.8		1.05665	1.055814		1.080605	1.078385
	261630019	Michigan	Wayne	40.9	41.4		38.6	39.1		37.7	38.3		37.0	37.5		1.059585	1.058824		1.084881	1.08094
	261630025	Michigan	Wayne	35.1	36.8		33.1	34.6		31.9	33.1		29.5	30.5		1.060423	1.063584		1.100313	1.111782
	261630033	Michigan	Wayne	43.8	44.2		42.1	42.6		41.1	41.7		39.1	39.4		1.04038	1.037559		1.065693	1.059952
	261630036	Michigan	Wayne	37.1	37.9		36.3	36.9		35.5	36.2		34.4	35.5		1.022039	1.0271		1.04507	1.046961
	261630039	Michigan	Wayne	37.0	37.0		35.0	35.0		34.2	34.2		32.6	32.6		1.057143	1.057143		1.081871	1.081871
	270210001	Minnesota	Cass	18.0	19.1		17.0	18.0		16.5	17.5		15.5	16.5		1.058824	1.061111		1.090909	1.091429
	270370470	Minnesota	Dakota	25.4	25.6		24.6	24.9		23.5	23.7		22.0	22.2		1.03252	1.028112		1.080851	1.080169
	270530050	Minnesota	Hennepin	27.2	28.0		25.7	26.4		24.9	25.7		23.1	23.8		1.058366	1.060606		1.092369	1.089494

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	270530961	Minnesota	Hennepin	25.5	26.2		24.1	24.7		23.6	24.1		22.4	22.9		1.058091	1.060729		1.080508	1.087137
	270530963	Minnesota	Hennepin	26.0	27.8		24.6	26.2		23.8	25.5		22.4	24.0		1.056911	1.061069		1.092437	1.090196
	270530965	Minnesota	Hennepin	24.7	25.5		23.0	23.8		22.6	23.4		21.7	22.5		1.073913	1.071429		1.09292	1.089744
	270531007	Minnesota	Hennepin	25.4	25.7		24.1	24.4		23.4	23.7		22.1	22.4		1.053942	1.053279		1.08547	1.084388
	270532006	Minnesota	Hennepin	26.7	27.5		25.5	26.3		24.8	25.4		23.2	23.9		1.047059	1.045627		1.076613	1.082677
	270953051	Minnesota	Mille Lacs	22.0	22.2		21.4	21.8		20.9	21.2		19.4	19.6		1.028037	1.018349		1.052632	1.04717
	271230866	Minnesota	Ramsey	28.0	29.4		26.7	28.0		26.3	27.6		25.3	26.6		1.048689	1.05		1.064639	1.065217
	271230868	Minnesota	Ramsey	28.3	30.5		27.0	29.0		26.2	28.2		24.6	26.7		1.048148	1.051724		1.080153	1.08156
	271230871	Minnesota	Ramsey	26.3	26.8		25.2	25.9		24.2	24.8		22.9	23.5		1.043651	1.034749		1.086777	1.080645
	271377001	Minnesota	Saint Louis	20.3	21.2		19.4	20.3		18.7	19.6		17.6	18.6		1.046392	1.044335		1.085561	1.081633
	271377550	Minnesota	Saint Louis	19.5	20.1		18.9	19.3		18.0	18.3		16.3	16.6		1.031746	1.041451		1.083333	1.098361
	271377551	Minnesota	Saint Louis	23.5	23.8		22.0	22.1		21.3	21.4		19.4	19.5		1.068182	1.076923		1.103286	1.11215
	271390505	Minnesota	Scott	24.9	25.8		23.9	24.6		23.2	24.0		21.5	22.7		1.041841	1.04878		1.073276	1.075
	271453052	Minnesota	Stearns	20.9	20.9		19.6	19.6		19.0	19.0		18.3	18.3		1.066327	1.066327		1.1	1.1
	280010004	Mississippi	Adams	27.4	27.8		27.0	27.3		25.8	26.2		19.9	20.3		1.014815	1.018315		1.062016	1.061069
	280110001	Mississippi	Bolivar	28.9	29.9		28.8	29.6		27.5	28.4		22.0	23.0		1.003472	1.010135		1.050909	1.052817
	280330002	Mississippi	DeSoto	30.8	31.3		29.7	29.8		28.0	28.1		20.5	21.7		1.037037	1.050336		1.1	1.113879
	280350004	Mississippi	Forrest	30.4	31.1		29.0	29.4		27.9	28.2		24.9	25.5		1.048276	1.057823		1.089606	1.102837
	280470008	Mississippi	Harrison	30.5	31.5		29.1	29.8		27.7	28.4		23.6	24.2		1.04811	1.057047		1.101083	1.109155
	280490010	Mississippi	Hinds	28.8	29.1		27.1	27.2		26.0	26.0		21.1	21.2		1.062731	1.069853		1.107692	1.119231
	280590006	Mississippi	Jackson	28.2	29.4		26.7	27.8		25.3	26.3		21.8	22.7		1.05618	1.057554		1.114625	1.117871
	280670002	Mississippi	Jones	31.2	31.6		29.9	30.6		28.9	29.6		25.3	26.0		1.043478	1.03268		1.079585	1.067568
	280750003	Mississippi	Lauderdale	29.8	29.8		29.6	29.9		28.3	28.5		22.8	23.0		1.006757	0.996656		1.053004	1.045614
	280810005	Mississippi	Lee	32.1	33.4		30.0	31.0		28.3	29.2		21.9	22.5		1.07	1.077419		1.134276	1.143836
	280870001	Mississippi	Lowndes	32.4	33.0		28.6	29.1		26.9	27.7		21.7	22.9		1.132867	1.134021		1.204461	1.191336
	281090001	Mississippi	Pearl River	28.5	28.5		27.1	27.1		25.9	25.9		22.6	22.6		1.051661	1.051661		1.100386	1.100386
	281490004	Mississippi	Warren	30.2	30.2		29.9	29.9		28.8	28.8		23.0	23.0		1.010033	1.010033		1.048611	1.048611
	290190004	Missouri	Boone	30.2	30.2		29.9	29.9		28.5	28.5		25.3	25.3		1.010033	1.010033		1.059649	1.059649
	290210005	Missouri	Buchanan	30.1	30.1		28.6	28.6		27.7	27.7		25.5	25.5		1.052448	1.052448		1.086643	1.086643
	290370003	Missouri	Cass	25.6	26.1		25.0	25.5		24.1	24.6		21.3	21.5		1.024	1.023529		1.062241	1.060976
	290390001	Missouri	Cedar	28.7	28.7		28.5	28.5		27.0	27.0		22.4	22.4		1.007018	1.007018		1.062963	1.062963
	290470005	Missouri	Clay	28.0	28.6		26.7	27.3		25.7	26.3		24.6	25.5		1.048689	1.047619		1.089494	1.087452
	290770032	Missouri	Greene	28.2	29.4		29.1	30.2		26.9	28.0		22.1	22.9		0.969072	0.97351		1.048327	1.05
	290950034	Missouri	Jackson	28.9	30.9		27.4	29.3		26.7	28.6		24.9	26.6		1.054745	1.054608		1.082397	1.08042
	290990012	Missouri	Jefferson	33.4	34.2		35.7	36.5		32.6	33.6		29.7	30.2		0.935574	0.936986		1.02454	1.017857
	291370001	Missouri	Monroe	27.8	27.8		26.9	26.9		25.6	25.6		22.7	22.7		1.033457	1.033457		1.085938	1.085938
	291831002	Missouri	Saint Charles	33.1	34.7		35.5	37.1		33.6	35.3		28.6	29.9		0.932394	0.93531		0.985119	0.983003
	291860006	Missouri	Sainte Genevieve	31.4	32.0		32.1	33.1		29.7	30.6		25.3	26.9		0.978193	0.966767		1.057239	1.045752
	291890004	Missouri	Saint Louis	32.0	32.0		34.3	34.3		31.7	31.7		26.0	26.0		0.932945	0.932945		1.009464	1.009464
	291892003	Missouri	Saint Louis	33.2	33.8		33.7	34.4		32.3	33.1		31.0	31.6		0.985163	0.982558		1.027864	1.021148
	295100007	Missouri	St. Louis City	33.1	33.5		36.0	36.3		33.3	33.6		29.1	30.2		0.919444	0.922865		0.993994	0.997024
	295100085	Missouri	St. Louis City	33.2	33.8		35.3	35.7		32.9	33.3		29.8	30.4		0.94051	0.946779		1.009119	1.015015
	295100086	Missouri	St. Louis City	32.5	32.6		34.3	34.5		32.0	32.2		29.4	29.5		0.947522	0.944928		1.015625	1.012422
	295100087	Missouri	St. Louis City	34.3	34.7		36.4	36.9		33.7	34.1		30.8	31.3		0.942308	0.940379		1.017804	1.017595
	300870307	Montana	Rosebud	19.7	19.7		19.2	19.2		19.1	19.1		19.1	19.1		1.026042	1.026042		1.031414	1.031414
	301111065	Montana	Yellowstone	19.3	19.4		18.6	18.8		18.5	18.8		18.5	18.8		1.037634	1.031915		1.043243	1.031915
	310550019	Nebraska	Douglas	26.6	28.8		26.1	28.6		25.5	27.9		23.1	24.8		1.019157	1.006993		1.043137	1.032258
	310550052	Nebraska	Douglas	25.7	26.8		24.4	25.4		24.0	24.9		22.3	23.4		1.053279	1.055118		1.070833	1.076305
	310790004	Nebraska	Hall	19.1	19.1		17.7	17.7		17.2	17.2		16.3	16.3		1.079096	1.079096		1.110465	1.110465
	311090022	Nebraska	Lancaster	24.7	26.6		23.3	25.0		22.9	24.7		21.7	23.8		1.060086	1.064		1.078603	1.076923

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	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	311111002	Nebraska	Lincoln	23.7	23.7		21.9	21.9		21.6	21.6		21.2	21.2		1.082192	1.082192		1.097222	1.097222
	311530007	Nebraska	Sarpy	24.1	24.4		23.9	24.2		23.3	23.6		21.0	21.2		1.008368	1.008264		1.034335	1.033898
	311570003	Nebraska	Scotts Bluff	16.6	16.6		15.9	15.9		15.7	15.7		15.3	15.3		1.044025	1.044025		1.057325	1.057325
	311770002	Nebraska	Washington	24.1	24.8		23.2	24.1		22.7	23.5		21.0	21.6		1.038793	1.029046		1.061674	1.055319
	330012004	New Hampshire	Belknap	20.5	21.4		17.6	18.3		17.1	17.8		14.4	14.9		1.164773	1.169399		1.19883	1.202247
	330050007	New Hampshire	Cheshire	30.2	31.0		28.2	28.7		27.7	28.1		26.4	26.8		1.070922	1.080139		1.090253	1.103203
	330070014	New Hampshire	Coos	26.5	26.9		24.7	25.1		24.2	24.6		22.3	22.6		1.072874	1.071713		1.095041	1.093496
	330090010	New Hampshire	Grafton	23.0	23.0		20.3	20.3		19.8	19.8		18.1	18.1		1.133005	1.133005		1.161616	1.161616
	330110020	New Hampshire	Hillsborough	28.6	28.6		26.5	26.5		26.1	26.1		25.2	25.2		1.079245	1.079245		1.095785	1.095785
	330111015	New Hampshire	Hillsborough	27.3	27.3		25.7	25.7		25.3	25.3		24.5	24.5		1.062257	1.062257		1.079051	1.079051
	330115001	New Hampshire	Hillsborough	25.9	25.9		22.4	22.4		21.9	21.9		17.1	17.1		1.15625	1.15625		1.182648	1.182648
	330131006	New Hampshire	Merrimack	25.6	26.1		22.9	23.1		22.5	22.7		20.4	20.7		1.117904	1.12987		1.137778	1.14978
	330150014	New Hampshire	Rockingham	26.3	27.8		23.6	24.9		23.2	24.5		21.9	22.9		1.114407	1.116466		1.133621	1.134694
	330190003	New Hampshire	Sullivan	28.9	30.8		24.8	26.8		24.1	26.0		21.0	22.8		1.165323	1.149254		1.19917	1.184615
	340030003	New Jersey	Bergen	37.0	37.7		33.6	34.1		33.0	33.5		31.5	32.1		1.10119	1.105572		1.121212	1.125373
	340070003	New Jersey	Camden	36.5	38.6		32.7	34.3		31.9	33.6		27.2	28.9		1.116208	1.125364		1.144201	1.14881
	340071007	New Jersey	Camden	37.3	38.8		34.1	35.1		33.3	34.3		30.0	31.0		1.093842	1.105413		1.12012	1.131195
	340130015	New Jersey	Essex	38.3	38.4		33.9	34.4		33.1	33.7		30.3	31.8		1.129794	1.116279		1.1571	1.139466
	340155001	New Jersey	Gloucester	32.1	32.1		28.2	28.2		27.7	27.7		25.1	25.1		1.138298	1.138298		1.158845	1.158845
	340171003	New Jersey	Hudson	39.0	40.5		35.7	36.1		34.9	35.3		32.9	33.9		1.092437	1.121884		1.117479	1.147309
	340172002	New Jersey	Hudson	41.4	41.4		38.2	38.2		37.5	37.5		36.6	36.6		1.08377	1.08377		1.104	1.104
	340210008	New Jersey	Mercer	34.7	35.8		30.9	31.4		30.2	30.5		26.0	26.6		1.122977	1.140127		1.149007	1.17377
	340218001	New Jersey	Mercer	30.1	30.1		26.3	26.3		25.6	25.6		21.0	21.0		1.144487	1.144487		1.175781	1.175781
	340230006	New Jersey	Middlesex	34.8	38.1		31.0	34.0		30.3	33.2		26.1	27.2		1.122581	1.120588		1.148515	1.14759
	340270004	New Jersey	Morris	32.3	33.6		29.2	30.3		28.6	29.5		25.2	26.5		1.106164	1.108911		1.129371	1.138983
	340273001	New Jersey	Morris	31.5	32.9		27.8	29.1		27.0	28.2		21.2	21.3		1.133094	1.130584		1.166667	1.166667
	340292002	New Jersey	Ocean	31.5	33.9		28.0	29.7		27.2	28.9		20.8	22.0		1.125	1.141414		1.158088	1.17301
	340310005	New Jersey	Passaic	36.3	37.1		32.6	33.5		31.9	32.9		28.1	29.5		1.113497	1.107463		1.137931	1.12766
	340390004	New Jersey	Union	40.4	41.4		36.7	37.2		35.6	36.2		33.9	34.8		1.100817	1.112903		1.134831	1.143646
	340390006	New Jersey	Union	37.3	37.7		34.8	35.1		34.2	34.4		33.2	33.5		1.071839	1.074074		1.090643	1.09593
	340392003	New Jersey	Union	36.8	37.4		33.7	34.1		32.8	33.2		30.5	31.7		1.091988	1.096774		1.121951	1.126506
	340410006	New Jersey	Warren	34.0	34.7		32.0	32.8		31.6	32.3		29.1	30.3		1.0625	1.057927		1.075949	1.074303
	350010023	New Mexico	Bernalillo	18.6	18.8		17.6	17.8		17.4	17.7		17.1	17.3		1.056818	1.05618		1.068966	1.062147
	350010024	New Mexico	Bernalillo	16.4	17.1		15.5	16.3		15.4	16.1		15.0	15.8		1.058065	1.04908		1.064935	1.062112
	350050005	New Mexico	Chaves	15.6	16.5		14.9	15.6		14.7	15.3		14.0	14.3		1.04698	1.057692		1.061224	1.078431
	350130017	New Mexico	Dona Ana	32.9	35.5		31.1	33.5		30.8	33.2		30.5	32.9		1.057878	1.059701		1.068182	1.069277
	350130025	New Mexico	Dona Ana	13.8	14.1		13.1	13.5		12.9	13.3		12.3	12.8		1.053435	1.044444		1.069767	1.06015
	350431003	New Mexico	Sandoval	10.3	10.9		9.6	10.2		9.5	10.0		9.2	9.7		1.072917	1.068627		1.084211	1.09
	350439011	New Mexico	Sandoval	15.6	16.2		15.2	15.8		15.0	15.7		14.9	15.5		1.026316	1.025316		1.04	1.031847
	350450006	New Mexico	San Juan	12.4	12.6		12.1	12.3		12.0	12.2		12.0	12.2		1.024793	1.02439		1.033333	1.032787
	350490020	New Mexico	Santa Fe	9.7	10.2		9.4	9.8		9.3	9.7		9.2	9.6		1.031915	1.040816		1.043011	1.051546
	360010005	New York	Albany	34.2	34.2		32.9	32.9		32.4	32.4		30.9	30.9		1.039514	1.039514		1.055556	1.055556
	360050080	New York	Bronx	38.8	40.2		35.9	36.2		35.2	35.4		33.5	33.9		1.08078	1.110497		1.102273	1.135593
	360050083	New York	Bronx	34.7	35.3		32.1	32.9		31.5	32.3		30.3	31.1		1.080997	1.072948		1.101587	1.092879
	360050110	New York	Bronx	36.1	36.6		33.6	34.6		33.1	34.0		32.3	33.2		1.074405	1.057803		1.090634	1.076471
	360130011	New York	Chautauqua	29.1	30.1		26.9	27.7		25.7	26.5		20.8	21.5		1.081784	1.086643		1.132296	1.135849
	360290005	New York	Erie	35.3	37.0		33.1	34.8		32.8	34.3		31.8	33.4		1.066465	1.063218		1.07622	1.078717
	360291007	New York	Erie	33.6	35.2		31.9	33.8		31.5	33.5		30.0	32.4		1.053292	1.04142		1.066667	1.050746
	360310003	New York	Essex	22.4	22.8		21.0	21.3		20.4	20.6		17.3	17.6		1.066667	1.070423		1.098039	1.106796
	360470122	New York	Kings	36.9	38.0		33.5	34.3		32.6	33.4		30.7	30.8		1.101493	1.107872		1.131902	1.137725

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	360551007	New York	Monroe	32.2	33.0		30.4	31.2		29.9	30.6		27.4	28.1		1.059211	1.057692		1.076923	1.078431
	360590008	New York	Nassau	34.0	35.0		30.4	31.0		29.4	29.9		25.4	25.5		1.118421	1.129032		1.156463	1.170569
	360610056	New York	New York	39.7	40.6		37.1	38.0		36.5	37.3		35.3	36.0		1.070081	1.068421		1.087671	1.088472
	360610062	New York	New York	38.8	41.6		35.3	37.0		34.6	36.3		33.2	33.6		1.09915	1.124324		1.121387	1.146006
	360610079	New York	New York	37.9	40.2		34.2	36.4		33.4	35.4		31.4	33.3		1.108187	1.104396		1.134731	1.135593
	360610128	New York	New York	39.4	41.8		36.2	38.0		35.4	37.0		33.0	33.1		1.088398	1.1		1.112994	1.12973
	360632008	New York	Niagara	33.6	33.7		31.7	31.9		30.5	30.7		28.5	28.5		1.059937	1.056426		1.101639	1.09772
	360671015	New York	Onondaga	27.3	28.5		25.4	26.2		24.8	25.4		20.2	21.2		1.074803	1.087786		1.100806	1.122047
	360710002	New York	Orange	28.9	29.4		26.3	26.9		25.7	26.3		23.2	23.8		1.098859	1.092937		1.124514	1.117871
	360810124	New York	Queens	35.5	35.5		33.0	33.0		32.2	32.2		31.1	31.1		1.075758	1.075758		1.102484	1.102484
	360850055	New York	Richmond	34.9	37.0		32.0	34.3		31.2	33.3		29.5	31.2		1.090625	1.078717		1.11859	1.111111
	360850067	New York	Richmond	32.1	32.9		28.8	29.5		27.9	28.5		25.0	25.5		1.114583	1.115254		1.150538	1.154386
	360893001	New York	St. Lawrence	22.1	22.5		20.7	21.3		20.2	20.9		18.6	19.7		1.067633	1.056338		1.094059	1.076555
	361010003	New York	Steuben	27.8	28.2		25.2	25.6		24.6	25.0		20.1	21.1		1.103175	1.101563		1.130081	1.128
	361030001	New York	Suffolk	34.6	34.6		30.5	30.5		29.4	29.4		23.9	23.9		1.134426	1.134426		1.176871	1.176871
	361191002	New York	Westchester	33.5	34.3		30.4	30.8		29.7	29.9		26.4	26.9		1.101974	1.113636		1.127946	1.147157
	370010002	North Carolina	Alamance	31.7	32.1		27.0	27.5		26.2	26.7		21.8	22.2		1.174074	1.167273		1.209924	1.202247
	370210034	North Carolina	Buncombe	30.0	30.2		26.1	26.5		25.4	25.8		20.4	21.2		1.149425	1.139623		1.181102	1.170543
	370330001	North Carolina	Caswell	29.4	29.5		25.8	26.1		24.9	25.2		19.9	20.1		1.139535	1.130268		1.180723	1.170635
	370350004	North Carolina	Catawba	34.5	35.5		27.5	28.1		26.9	27.5		23.1	23.2		1.254545	1.263345		1.282528	1.290909
	370370004	North Carolina	Chatham	26.9	27.4		24.1	24.8		23.1	23.8		19.8	20.5		1.116183	1.104839		1.164502	1.151261
	370510009	North Carolina	Cumberland	30.7	31.2		27.7	28.4		26.6	27.3		24.0	24.6		1.108303	1.098592		1.154135	1.142857
	370570002	North Carolina	Davidson	31.3	32.1		27.0	27.4		26.3	26.7		23.0	23.4		1.159259	1.171533		1.190114	1.202247
	370610002	North Carolina	Duplin	28.3	29.6		25.0	26.1		24.2	25.4		20.6	21.6		1.132	1.1341		1.169421	1.165354
	370630001	North Carolina	Durham	31.0	32.0		26.3	26.7		25.3	25.7		22.3	22.5		1.178707	1.198502		1.225296	1.245136
	370650004	North Carolina	Edgecombe	26.7	26.9		24.8	24.9		23.8	23.9		21.3	21.9		1.076613	1.080321		1.121849	1.125523
	370670022	North Carolina	Forsyth	31.9	32.2		28.1	28.4		27.2	27.5		25.4	25.7		1.135231	1.133803		1.172794	1.170909
	370710016	North Carolina	Gaston	30.8	30.9		24.3	24.5		23.8	23.9		20.1	20.4		1.26749	1.261224		1.294118	1.292887
	370810013	North Carolina	Guilford	30.6	30.6		27.2	27.2		26.2	26.2		23.4	23.4		1.125	1.125		1.167939	1.167939
	370870010	North Carolina	Haywood	27.7	28.5		24.6	25.3		23.5	24.0		20.8	21.2		1.126016	1.126482		1.178723	1.1875
	370990006	North Carolina	Jackson	25.5	26.8		22.1	22.9		20.5	21.4		17.2	18.2		1.153846	1.170306		1.243902	1.252336
	371070004	North Carolina	Lenoir	25.2	25.5		22.6	23.1		21.9	22.4		20.2	20.6		1.115044	1.103896		1.150685	1.138393
	371110004	North Carolina	McDowell	31.5	32.0		26.0	26.5		25.1	25.6		21.5	21.8		1.211538	1.207547		1.25498	1.25
	371170001	North Carolina	Martin	24.8	26.2		23.2	24.1		22.4	23.3		20.6	21.5		1.068966	1.087137		1.107143	1.124464
	371190010	North Carolina	Mecklenburg	32.3	32.3		28.2	28.2		27.5	27.5		24.7	24.7		1.14539	1.14539		1.174545	1.174545
	371190041	North Carolina	Mecklenburg	31.7	32.1		26.7	27.2		25.9	26.4		23.1	23.3		1.187266	1.180147		1.223938	1.215909
	371190042	North Carolina	Mecklenburg	30.7	31.4		24.9	25.7		24.0	24.7		21.6	22.3		1.232932	1.22179		1.279167	1.271255
	371210001	North Carolina	Mitchell	30.2	31.6		25.3	27.1		24.3	26.0		20.6	22.0		1.193676	1.166052		1.242798	1.215385
	371230001	North Carolina	Montgomery	28.2	29.0		24.5	25.1		23.6	24.2		19.6	20.1		1.15102	1.155378		1.194915	1.198347
	371290002	North Carolina	New Hanover	24.0	25.4		21.2	22.4		20.5	21.6		17.5	18.3		1.132075	1.133929		1.170732	1.175926
	371330005	North Carolina	Onslow	24.6	25.1		22.6	23.1		21.9	22.3		19.4	19.8		1.088496	1.08658		1.123288	1.125561
	371350007	North Carolina	Orange	29.3	29.8		25.1	25.6		24.1	24.5		19.9	20.3		1.167331	1.164063		1.215768	1.216327
	371470005	North Carolina	Pitt	26.2	26.9		23.9	24.3		23.1	23.6		21.8	22.2		1.096234	1.106996		1.134199	1.139831
	371550005	North Carolina	Robeson	29.9	30.4		26.1	26.2		25.2	25.4		20.9	21.1		1.145594	1.160305		1.186508	1.19685
	371590021	North Carolina	Rowan	30.2	30.2		25.4	25.4		25.1	25.1		21.9	21.9		1.188976	1.188976		1.203187	1.203187
	371730002	North Carolina	Swain	27.3	28.3		23.6	24.3		22.1	22.8		19.7	20.8		1.15678	1.164609		1.235294	1.241228
	371830014	North Carolina	Wake	31.6	32.2		27.6	27.8		26.5	26.9		24.1	24.5		1.144928	1.158273		1.192453	1.197026
	371890003	North Carolina	Watauga	30.4	30.5		25.9	26.0		25.3	25.4		19.6	19.9		1.173745	1.173077		1.201581	1.200787
	371910005	North Carolina	Wayne	29.7	30.4		26.6	27.4		25.5	26.3		21.6	22.5		1.116541	1.109489		1.164706	1.155894
	380070002	North Dakota	Billings	13.0	13.6		12.6	13.1		12.6	12.9		12.4	12.8		1.031746	1.038168		1.031746	1.054264

Daily PM Design Values
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															RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	380130003	North Dakota	Burke	16.7	16.7		16.2	16.2		16.1	16.1		16.0	16.0		1.030864	1.030864		1.037267	1.037267
	380150003	North Dakota	Burleigh	17.6	18.7		16.4	17.3		16.2	17.1		15.8	16.7		1.073171	1.080925		1.08642	1.093567
	380171004	North Dakota	Cass	21.2	22.5		20.5	21.7		19.8	21.0		18.2	19.6		1.034146	1.036866		1.070707	1.071429
	380530002	North Dakota	McKenzie	11.9	13.0		11.4	12.5		11.4	12.4		11.2	12.2		1.04386	1.04		1.04386	1.048387
	380570004	North Dakota	Mercer	16.9	17.9		17.2	18.2		17.1	18.1		17.0	18.0		0.982558	0.983516		0.988304	0.98895
	390090003	Ohio	Athens	32.3	33.2		28.9	29.4		27.3	27.6		19.7	20.5		1.117647	1.129252		1.18315	1.202899
	390170003	Ohio	Butler	39.2	41.1		40.3	42.3		38.3	40.3		29.1	31.4		0.972705	0.971631		1.023499	1.019851
	390170016	Ohio	Butler	37.1	37.7		37.5	37.8		35.7	36.2		27.9	28.3		0.989333	0.997354		1.039216	1.041436
	390170017	Ohio	Butler	37.9	37.9		38.5	38.5		36.8	36.8		28.4	28.4		0.984416	0.984416		1.029891	1.029891
	390171004	Ohio	Butler	37.1	38.1		37.8	38.6		36.1	37.0		27.4	28.3		0.981481	0.987047		1.027701	1.02973
	390230005	Ohio	Clark	35.3	36.4		33.6	34.7		32.1	33.1		26.6	27.5		1.050595	1.048991		1.099688	1.099698
	390250022	Ohio	Clermont	34.4	34.4		34.4	34.4		32.9	32.9		24.8	24.8		1	1		1.045593	1.045593
	390350027	Ohio	Cuyahoga	36.6	38.8		34.5	36.6		34.0	36.2		32.1	35.0		1.06087	1.060109		1.076471	1.071823
	390350034	Ohio	Cuyahoga	36.5	37.9		33.7	35.7		33.2	35.4		29.9	33.3		1.083086	1.061625		1.099398	1.070621
	390350038	Ohio	Cuyahoga	44.2	47.0		41.2	44.0		40.0	42.6		35.7	38.2		1.072816	1.068182		1.105	1.103286
	390350045	Ohio	Cuyahoga	38.5	41.5		36.0	39.0		35.0	38.2		29.4	33.2		1.069444	1.064103		1.1	1.086387
	390350060	Ohio	Cuyahoga	42.1	45.7		39.4	42.8		38.7	41.8		36.3	38.0		1.068528	1.067757		1.087855	1.093301
	390350065	Ohio	Cuyahoga	38.6	41.0		36.5	38.9		35.4	38.1		30.2	33.9		1.057534	1.053985		1.090395	1.076115
	390351002	Ohio	Cuyahoga	34.6	34.6		32.9	32.9		32.2	32.2		29.7	29.7		1.051672	1.051672		1.074534	1.074534
	390490024	Ohio	Franklin	38.5	39.7		36.6	37.6		35.2	36.5		32.3	33.9		1.051913	1.055851		1.09375	1.087671
	390490025	Ohio	Franklin	38.4	39.1		36.1	36.4		34.8	35.2		30.6	32.6		1.063712	1.074176		1.103448	1.110795
	390490081	Ohio	Franklin	34.1	34.1		30.9	30.9		29.2	29.2		24.6	24.6		1.10356	1.10356		1.167808	1.167808
	390570005	Ohio	Greene	33.0	33.0		32.1	32.1		30.9	30.9		26.2	26.2		1.028037	1.028037		1.067961	1.067961
	390610006	Ohio	Hamilton	37.6	37.6		38.0	38.0		36.5	36.5		27.2	27.2		0.989474	0.989474		1.030137	1.030137
	390610014	Ohio	Hamilton	38.2	39.4		37.5	38.5		36.1	37.1		25.4	27.1		1.018667	1.023377		1.058172	1.061995
	390610040	Ohio	Hamilton	36.7	37.7		35.8	36.8		34.3	35.3		24.9	25.2		1.02514	1.024457		1.069971	1.067989
	390610042	Ohio	Hamilton	37.3	38.2		37.2	38.0		35.9	36.7		29.3	30.0		1.002688	1.005263		1.038997	1.040872
	390610043	Ohio	Hamilton	35.9	36.2		36.0	36.4		34.7	35.0		27.9	28.4		0.997222	0.994505		1.034582	1.034286
	390617001	Ohio	Hamilton	38.8	39.6		37.7	38.1		36.2	36.6		30.1	31.9		1.029178	1.03937		1.071823	1.081967
	390618001	Ohio	Hamilton	40.6	40.9		39.6	40.3		38.2	39.0		31.0	32.3		1.025253	1.014888		1.062827	1.048718
	390810017	Ohio	Jefferson	40.7	42.4		35.3	36.8		34.0	35.5		29.1	30.5		1.152975	1.152174		1.197059	1.194366
	390811001	Ohio	Jefferson	41.9	45.5		36.5	39.9		35.3	38.8		30.0	33.3		1.147945	1.140351		1.186969	1.17268
	390851001	Ohio	Lake	37.1	37.1		35.0	35.0		34.4	34.4		29.5	29.5		1.06	1.06		1.078488	1.078488
	390870010	Ohio	Lawrence	33.7	34.8		30.3	31.5		28.8	29.8		22.0	22.5		1.112211	1.104762		1.170139	1.167785
	390933002	Ohio	Lorain	31.5	32.1		30.0	30.6		29.1	29.7		24.5	24.8		1.05	1.04902		1.082474	1.080808
	390950024	Ohio	Lucas	36.3	38.6		34.2	36.5		33.5	35.7		32.0	34.4		1.061404	1.057534		1.083582	1.081232
	390950025	Ohio	Lucas	35.1	36.8		33.4	34.5		32.6	33.8		31.1	32.5		1.050898	1.066667		1.076687	1.088757
	390950026	Ohio	Lucas	34.9	36.7		33.6	35.6		32.6	34.5		30.2	32.3		1.03869	1.030899		1.070552	1.063768
	390990005	Ohio	Mahoning	35.1	35.7		32.2	32.7		30.7	31.3		27.0	28.8		1.090062	1.091743		1.143322	1.140575
	390990014	Ohio	Mahoning	36.8	38.2		34.2	35.8		33.1	34.6		30.3	31.9		1.076023	1.067039		1.111782	1.104046
	391130031	Ohio	Montgomery	35.7	37.1		34.3	35.6		33.1	34.2		29.8	30.9		1.040816	1.042135		1.07855	1.084795
	391130032	Ohio	Montgomery	37.8	40.0		36.3	38.5		34.9	36.9		31.1	33.3		1.041322	1.038961		1.083095	1.084011
	391330002	Ohio	Portage	34.3	34.5		32.9	33.1		31.7	31.9		25.9	26.3		1.042553	1.042296		1.082019	1.081505
	391351001	Ohio	Preble	32.8	33.9		34.3	35.5		33.2	34.4		26.5	26.6		0.956268	0.95493		0.987952	0.985465
	391450013	Ohio	Scioto	34.5	36.1		31.6	33.1		30.1	31.6		22.3	23.2		1.091772	1.090634		1.146179	1.142405
	391510017	Ohio	Stark	36.9	37.6		34.4	35.3		33.6	34.7		28.6	29.6		1.072674	1.065156		1.098214	1.083573
	391530017	Ohio	Summit	38.0	39.6		35.6	37.2		34.6	36.4		31.4	34.2		1.067416	1.064516		1.098266	1.087912
	391530023	Ohio	Summit	35.8	37.5		33.5	35.1		32.6	34.3		28.4	30.4		1.068657	1.068376		1.09816	1.093294
	391550007	Ohio	Trumbull	36.2	37.8		33.9	35.6		33.0	34.5		30.2	32.1		1.067847	1.061798		1.09697	1.095652
	400159008	Oklahoma	Caddo	23.9	26.0		22.1	23.9		21.7	23.3		19.6	20.6		1.081448	1.087866		1.101382	1.11588

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	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	400219002	Oklahoma	Cherokee	27.5	28.0		25.9	26.2		25.1	25.5		23.0	23.8		1.061776	1.068702		1.095618	1.098039
	400710602	Oklahoma	Kay	31.8	31.8		30.8	30.8		29.9	29.9		28.0	28.0		1.032468	1.032468		1.063545	1.063545
	400719010	Oklahoma	Kay	27.9	32.2		26.7	30.7		26.0	30.0		24.4	28.7		1.044944	1.04886		1.073077	1.073333
	400819005	Oklahoma	Lincoln	27.8	27.8		26.4	26.4		25.7	25.7		22.7	22.7		1.05303	1.05303		1.081712	1.081712
	400970186	Oklahoma	Mayes	28.7	29.1		27.7	28.1		26.8	27.2		25.4	25.9		1.036101	1.035587		1.070896	1.069853
	400979014	Oklahoma	Mayes	26.1	26.3		25.1	25.2		24.1	24.3		21.3	21.4		1.039841	1.043651		1.082988	1.082305
	401010169	Oklahoma	Muskogee	29.5	30.5		28.6	29.5		28.0	28.7		25.8	26.3		1.031469	1.033898		1.053571	1.062718
	401090035	Oklahoma	Oklahoma	23.4	24.0		21.8	22.4		21.3	21.9		20.5	21.0		1.073394	1.071429		1.098592	1.09589
	401091037	Oklahoma	Oklahoma	27.1	28.2		25.0	26.3		24.2	25.5		22.6	23.9		1.084	1.072243		1.119835	1.105882
	401159004	Oklahoma	Ottawa	29.1	29.6		27.8	28.4		26.7	27.5		23.4	24.5		1.046763	1.042254		1.089888	1.076364
	401210415	Oklahoma	Pittsburg	26.3	27.2		25.1	26.1		24.4	25.4		21.9	23.3		1.047809	1.042146		1.077869	1.070866
	401359015	Oklahoma	Sequoyah	31.4	31.4		30.4	30.4		29.9	29.9		26.7	26.7		1.032895	1.032895		1.050167	1.050167
	401430110	Oklahoma	Tulsa	28.4	28.4		27.5	27.5		26.7	26.7		24.6	24.6		1.032727	1.032727		1.06367	1.06367
	401431127	Oklahoma	Tulsa	30.3	31.0		29.6	30.3		28.7	29.3		26.5	27.9		1.023649	1.023102		1.055749	1.05802
	420010001	Pennsylvania	Adams	34.9	36.2		32.1	32.8		31.5	32.3		28.4	29.7		1.087227	1.103659		1.107937	1.120743
	420030008	Pennsylvania	Allegheny	39.4	39.9		35.9	36.3		34.7	35.1		28.5	28.8		1.097493	1.099174		1.135447	1.136752
	420030021	Pennsylvania	Allegheny	35.1	35.1		32.2	32.2		31.4	31.4		25.9	25.9		1.090062	1.090062		1.117834	1.117834
	420030064	Pennsylvania	Allegheny	64.2	68.2		58.8	62.3		57.2	60.4		55.8	58.9		1.091837	1.094703		1.122378	1.129139
	420030067	Pennsylvania	Allegheny	37.2	39.4		33.0	34.7		31.5	33.1		21.5	22.5		1.127273	1.135447		1.180952	1.190332
	420030093	Pennsylvania	Allegheny	45.6	51.5		41.1	46.2		39.7	44.5		31.4	35.2		1.109489	1.114719		1.148615	1.157303
	420030095	Pennsylvania	Allegheny	38.7	40.7		34.3	36.6		33.0	35.2		26.5	29.1		1.12828	1.112022		1.172727	1.15625
	420030116	Pennsylvania	Allegheny	42.5	42.5		37.1	37.1		35.5	35.5		28.6	28.6		1.145553	1.145553		1.197183	1.197183
	420030133	Pennsylvania	Allegheny	39.2	39.2		34.5	34.5		33.1	33.1		24.3	24.3		1.136232	1.136232		1.18429	1.18429
	420031008	Pennsylvania	Allegheny	41.3	42.8		38.0	39.3		36.7	37.8		27.2	27.9		1.086842	1.089059		1.125341	1.132275
	420031301	Pennsylvania	Allegheny	40.3	42.4		36.6	38.6		35.5	37.4		30.1	31.0		1.101093	1.098446		1.135211	1.13369
	420033007	Pennsylvania	Allegheny	37.5	43.1		33.8	38.5		32.6	36.9		25.6	28.4		1.109467	1.119481		1.150307	1.168022
	420039002	Pennsylvania	Allegheny	37.8	37.8		34.3	34.3		33.0	33.0		24.7	24.7		1.102041	1.102041		1.145455	1.145455
	420070014	Pennsylvania	Beaver	43.4	44.6		37.7	39.1		36.6	38.0		30.0	30.8		1.151194	1.140665		1.185792	1.173684
	420110011	Pennsylvania	Berks	37.7	39.1		35.8	37.0		35.4	36.6		33.3	34.4		1.053073	1.056757		1.064972	1.068306
	420170012	Pennsylvania	Bucks	34.0	34.8		31.6	32.1		30.8	31.3		28.7	28.8		1.075949	1.084112		1.103896	1.111821
	420210011	Pennsylvania	Cambria	39.0	39.4		40.3	40.7		39.4	39.8		25.6	26.0		0.967742	0.968059		0.989848	0.98995
	420270100	Pennsylvania	Centre	36.2	37.6		33.9	35.0		33.2	34.1		28.8	29.3		1.067847	1.074286		1.090361	1.102639
	420290100	Pennsylvania	Chester	36.7	36.7		33.0	33.0		32.5	32.5		30.0	30.0		1.112121	1.112121		1.129231	1.129231
	420410101	Pennsylvania	Cumberland	38.0	40.2		35.3	37.0		35.0	36.7		33.0	34.6		1.076487	1.086486		1.085714	1.095368
	420430401	Pennsylvania	Dauphin	38.0	39.0		35.7	37.1		35.3	36.8		33.6	35.1		1.064426	1.051213		1.076487	1.059783
	420450002	Pennsylvania	Delaware	35.2	35.9		33.0	33.3		32.3	32.7		28.7	29.6		1.066667	1.078078		1.089783	1.097859
	420490003	Pennsylvania	Erie	34.4	34.4		32.7	32.7		32.0	32.0		29.4	29.4		1.051988	1.051988		1.075	1.075
	420692006	Pennsylvania	Lackawanna	31.5	32.6		28.8	29.7		28.1	29.0		25.4	26.2		1.09375	1.097643		1.120996	1.124138
	420710007	Pennsylvania	Lancaster	40.8	44.0		37.7	40.1		37.5	39.7		36.0	38.2		1.082228	1.097257		1.088	1.108312
	420770004	Pennsylvania	Lehigh	36.4	36.4		34.6	34.6		34.1	34.1		32.6	32.6		1.052023	1.052023		1.067449	1.067449
	420791101	Pennsylvania	Luzerne	32.4	32.4		28.9	28.9		28.1	28.1		26.2	26.2		1.121107	1.121107		1.153025	1.153025
	420850100	Pennsylvania	Mercer	36.3	36.3		33.5	33.5		32.2	32.2		29.7	29.7		1.083582	1.083582		1.127329	1.127329
	420950025	Pennsylvania	Northampton	36.7	37.4		33.8	34.3		33.1	33.5		31.4	31.7		1.085799	1.090379		1.108761	1.116418
	420990301	Pennsylvania	Perry	30.4	30.4		28.9	28.9		28.7	28.7		26.1	26.1		1.051903	1.051903		1.059233	1.059233
	421010004	Pennsylvania	Philadelphia	36.5	36.7		33.6	34.1		32.8	33.4		31.5	32.1		1.08631	1.076246		1.112805	1.098802
	421010024	Pennsylvania	Philadelphia	35.9	35.9		32.9	32.9		32.1	32.1		29.0	29.0		1.091185	1.091185		1.11838	1.11838
	421010047	Pennsylvania	Philadelphia	37.3	37.7		33.3	33.7		32.5	32.9		29.1	29.5		1.12012	1.118694		1.147692	1.145897
	421250005	Pennsylvania	Washington	35.5	36.3		31.6	32.3		30.7	31.4		23.7	24.7		1.123418	1.123839		1.156352	1.156051
	421250200	Pennsylvania	Washington	33.4	33.5		29.2	29.2		28.4	28.5		23.3	23.7		1.143836	1.14726		1.176056	1.175439
	421255001	Pennsylvania	Washington	38.1	39.9		33.9	35.5		32.7	34.1		26.0	27.0		1.123894	1.123944		1.165138	1.170088

Daily PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

															RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	421290008	Pennsylvania	Westmoreland	37.1	37.5		33.4	33.7		32.3	32.6		23.9	24.9		1.110778	1.11276		1.148607	1.150307
	421330008	Pennsylvania	York	38.2	40.7		35.9	38.8		35.5	38.4		32.8	35.4		1.064067	1.048969		1.076056	1.059896
	440070022	Rhode Island	Providence	29.4	29.4		26.9	26.9		26.5	26.5		24.4	24.4		1.092937	1.092937		1.109434	1.109434
	440070026	Rhode Island	Providence	30.6	32.2		28.0	29.0		27.5	28.5		26.0	26.8		1.092857	1.110345		1.112727	1.129825
	440070028	Rhode Island	Providence	28.2	28.4		25.6	25.7		25.2	25.3		23.3	23.4		1.101563	1.105058		1.119048	1.12253
	440071010	Rhode Island	Providence	28.8	29.7		26.6	27.0		26.2	26.6		24.3	24.5		1.082707	1.1		1.099237	1.116541
	450130007	South Carolina	Beaufort	30.2	32.6		26.8	28.6		25.4	27.0		21.5	22.1		1.126866	1.13986		1.188976	1.207407
	450190048	South Carolina	Charleston	27.8	28.0		25.2	25.5		24.2	24.4		23.0	23.1		1.103175	1.098039		1.14876	1.147541
	450190049	South Carolina	Charleston	27.9	27.9		26.2	26.3		24.9	25.0		22.6	22.7		1.064885	1.060837		1.120482	1.116
	450250001	South Carolina	Chesterfield	28.7	29.9		25.5	26.5		24.8	25.8		21.3	22.1		1.12549	1.128302		1.157258	1.158915
	450370001	South Carolina	Edgefield	32.2	33.7		29.5	31.0		27.2	29.0		23.4	25.1		1.091525	1.087097		1.183824	1.162069
	450410002	South Carolina	Florence	28.8	28.9		26.0	26.0		24.9	24.9		21.9	21.9		1.107692	1.111538		1.156627	1.160643
	450430009	South Carolina	Georgetown	29.2	29.5		26.5	26.9		25.5	26.0		22.6	23.2		1.101887	1.096654		1.145098	1.134615
	450450008	South Carolina	Greenville	32.1	32.4		29.4	29.4		28.1	28.2		26.6	26.8		1.091837	1.102041		1.142349	1.148936
	450450009	South Carolina	Greenville	32.5	33.5		29.0	29.3		27.7	28.0		25.1	25.4		1.12069	1.143345		1.173285	1.196429
	450470003	South Carolina	Greenwood	30.0	31.0		26.6	26.9		24.5	25.4		21.9	22.2		1.12782	1.152416		1.22449	1.220472
	450510002	South Carolina	Horry	28.6	29.2		26.1	26.7		25.2	25.8		21.7	22.1		1.095785	1.093633		1.134921	1.131783
	450630008	South Carolina	Lexington	32.8	33.4		29.8	30.6		28.7	29.4		25.8	26.7		1.100671	1.091503		1.142857	1.136054
	450730001	South Carolina	Oconee	28.4	29.3		25.2	26.2		23.1	23.8		19.5	20.2		1.126984	1.118321		1.229437	1.231092
	450790007	South Carolina	Richland	31.3	32.0		27.8	28.2		26.5	26.8		23.6	24.1		1.125899	1.134752		1.181132	1.19403
	450790019	South Carolina	Richland	33.2	33.8		30.2	31.0		28.8	29.5		26.3	27.0		1.099338	1.090323		1.152778	1.145763
	450830010	South Carolina	Spartanburg	32.4	32.4		26.9	26.9		26.1	26.1		23.0	23.0		1.204461	1.204461		1.241379	1.241379
	460110002	South Dakota	Brookings	23.5	24.9		22.4	23.7		21.6	22.9		19.9	21.1		1.049107	1.050633		1.087963	1.087336
	460130003	South Dakota	Brown	18.7	19.2		17.8	18.0		17.2	17.5		16.2	16.7		1.050562	1.066667		1.087209	1.097143
	460290002	South Dakota	Codington	23.6	24.0		23.0	23.4		22.2	22.6		20.5	20.7		1.026087	1.025641		1.063063	1.061947
	460330132	South Dakota	Custer	14.3	14.3		13.9	13.9		13.9	13.9		13.6	13.6		1.028777	1.028777		1.028777	1.028777
	460710001	South Dakota	Jackson	12.7	13.4		12.2	12.9		12.1	12.8		11.6	12.2		1.040984	1.03876		1.049587	1.046875
	460990006	South Dakota	Minnehaha	24.1	25.5		23.1	24.5		22.3	23.6		20.6	21.7		1.04329	1.040816		1.080717	1.080508
	460990007	South Dakota	Minnehaha	23.9	25.1		22.4	23.3		21.8	22.7		20.0	21.0		1.066964	1.077253		1.09633	1.105727
	461030016	South Dakota	Pennington	17.2	17.2		16.1	16.2		15.9	16.0		15.7	15.8		1.068323	1.061728		1.081761	1.075
	461030020	South Dakota	Pennington	18.5	19.2		17.6	18.2		17.5	18.0		17.4	17.9		1.051136	1.054945		1.057143	1.066667
	461031001	South Dakota	Pennington	15.9	16.6		15.0	15.8		14.8	15.6		14.6	15.5		1.06	1.050633		1.074324	1.064103
	470090011	Tennessee	Blount	32.5	34.2		30.4	32.0		29.1	30.6		22.5	23.7		1.069079	1.06875		1.116838	1.117647
	470370023	Tennessee	Davidson	33.5	34.3		34.4	35.1		32.9	33.5		23.7	24.7		0.973837	0.977208		1.018237	1.023881
	470370025	Tennessee	Davidson	30.9	31.5		31.5	32.1		29.9	30.5		21.8	22.7		0.980952	0.981308		1.033445	1.032787
	470370036	Tennessee	Davidson	32.7	33.5		33.9	34.8		32.2	33.0		21.5	22.0		0.964602	0.962644		1.015528	1.015152
	470450004	Tennessee	Dyer	31.9	33.3		32.9	34.4		31.0	32.3		22.7	23.9		0.969605	0.968023		1.029032	1.03096
	470650031	Tennessee	Hamilton	33.2	35.2		29.7	30.7		28.4	29.0		25.8	26.2		1.117845	1.14658		1.169014	1.213793
	470651011	Tennessee	Hamilton	29.7	31.3		26.7	28.1		25.5	26.6		20.7	22.2		1.11236	1.113879		1.164706	1.176692
	470654002	Tennessee	Hamilton	33.5	34.3		29.2	30.5		27.9	29.1		25.5	26.8		1.14726	1.12459		1.200717	1.178694
	470930028	Tennessee	Knox	36.6	36.6		33.9	33.9		32.4	32.4		26.1	26.1		1.079646	1.079646		1.12963	1.12963
	470931017	Tennessee	Knox	33.4	33.9		31.2	31.6		30.0	30.4		25.8	25.8		1.070513	1.072785		1.113333	1.115132
	470990002	Tennessee	Lawrence	28.4	31.7		27.3	31.0		26.1	29.5		18.7	20.6		1.040293	1.022581		1.088123	1.074576
	471050108	Tennessee	Loudon	32.2	33.3		30.4	31.3		28.8	29.7		23.4	24.1		1.059211	1.063898		1.118056	1.121212
	471071002	Tennessee	McMinn	32.4	33.9		30.1	31.5		28.4	29.8		21.9	23.2		1.076412	1.07619		1.140845	1.137584
	471192007	Tennessee	Maury	30.8	31.7		30.8	31.9		29.4	30.5		20.9	21.9		1	0.99373		1.047619	1.039344
	471251009	Tennessee	Montgomery	36.3	37.5		36.6	37.9		35.2	36.4		26.8	27.7		0.991803	0.989446		1.03125	1.03022
	471410001	Tennessee	Putnam	32.6	32.6		31.0	31.0		29.0	29.0		20.0	20.0		1.051613	1.051613		1.124138	1.124138
	471450004	Tennessee	Roane	30.2	31.4		27.8	28.9		26.6	27.6		21.6	22.5		1.086331	1.086505		1.135338	1.137681
	471570014	Tennessee	Shelby	32.2	33.5		31.0	31.8		29.3	30.3		21.9	23.9		1.03871	1.053459		1.098976	1.105611

Daily PM Design Values
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																RRFs			
	Monitor ID	State	County	Avg DV-03-07	Max DV-03-07		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base	Max DV-2014 base		Avg DV-2014 remedy	Max DV-2014 remedy		Avg DV-2012 base	Max DV-2012 base		Avg DV-2014 base	Max DV-2014 base
	471570038	Tennessee	Shelby	32.5	33.5		32.0	33.0		30.3	31.2		22.0	23.7		1.015625	1.015152		1.072607	1.073718
	471570047	Tennessee	Shelby	33.5	33.8		32.4	32.9		30.9	31.2		22.9	24.7		1.033951	1.027356		1.084142	1.083333
	471571004	Tennessee	Shelby	29.8	30.4		29.6	30.4		28.2	28.8		19.9	21.1		1.006757	1		1.056738	1.055556
	471631007	Tennessee	Sullivan	31.1	32.0		28.0	28.8		27.2	28.0		22.6	23.3		1.110714	1.111111		1.143382	1.142857
	471650007	Tennessee	Sumner	33.6	34.5		35.1	36.0		33.1	34.0		20.5	22.5		0.957265	0.958333		1.015106	1.014706
	480370004	Texas	Bowie	29.4	30.0		28.3	28.6		27.2	27.7		22.9	23.2		1.038869	1.048951		1.080882	1.083032
	481130069	Texas	Dallas	25.7	27.7		24.3	25.8		23.9	25.2		22.7	23.6		1.057613	1.073643		1.075314	1.099206
	481130087	Texas	Dallas	24.2	27.0		21.7	24.3		21.0	23.5		19.2	21.8		1.115207	1.111111		1.152381	1.148936
	481350003	Texas	Ector	17.8	18.2		18.8	19.2		17.1	17.6		15.7	16.2		0.946809	0.947917		1.040936	1.034091
	481410037	Texas	El Paso	22.9	22.9		22.0	22.0		21.9	21.9		21.5	21.5		1.040909	1.040909		1.045662	1.045662
	482010058	Texas	Harris	25.4	26.3		24.5	25.2		23.6	24.2		21.0	21.2		1.036735	1.043651		1.076271	1.086777
	482011035	Texas	Harris	30.8	31.4		29.9	30.2		28.7	29.1		26.9	27.1		1.0301	1.039735		1.073171	1.079038
	482030002	Texas	Harrison	25.9	26.2		24.6	24.9		24.0	24.4		20.8	21.3		1.052846	1.052209		1.079167	1.07377
	482150043	Texas	Hidalgo	26.4	27.9		26.4	28.2		25.8	27.6		23.8	25.4		1	0.989362		1.023256	1.01087
	482450021	Texas	Jefferson	26.0	26.8		25.4	26.3		24.4	25.3		20.2	20.9		1.023622	1.019011		1.065574	1.059289
	483550032	Texas	Nueces	27.5	30.2		27.0	29.9		25.9	28.7		22.5	25.2		1.018519	1.010033		1.061776	1.052265
	483611001	Texas	Orange	27.7	28.7		27.2	28.0		26.2	27.0		21.4	22.2		1.018382	1.025		1.057252	1.062963
	484391002	Texas	Tarrant	25.3	26.8		23.3	24.9		22.9	24.5		21.5	23.1		1.085837	1.076305		1.104803	1.093878
	484391006	Texas	Tarrant	25.7	27.9		24.0	26.1		23.7	25.7		22.9	25.0		1.070833	1.068966		1.084388	1.085603
	500010002	Vermont	Addison	28.2	28.2		26.1	26.1		25.6	25.6		23.1	23.1		1.08046	1.08046		1.101563	1.101563
	500010003	Vermont	Addison	31.7	31.7		29.4	29.4		28.8	28.8		25.6	25.6		1.078231	1.078231		1.100694	1.100694
	500030004	Vermont	Bennington	26.4	28.5		24.2	26.3		23.6	25.6		22.1	24.0		1.090909	1.08365		1.118644	1.113281
	500070012	Vermont	Chittenden	29.8	30.3		27.5	27.8		26.7	27.0		22.3	23.8		1.083636	1.089928		1.116105	1.122222
	500070014	Vermont	Chittenden	30.1	30.1		28.3	28.3		27.6	27.6		25.9	25.9		1.063604	1.063604		1.09058	1.09058
	500210002	Vermont	Rutland	30.6	31.3		29.1	29.4		28.6	28.8		27.9	28.0		1.051546	1.064626		1.06993	1.086806
	510130020	Virginia	Arlington	34.1	36.3		30.9	33.5		30.1	32.9		27.7	30.5		1.10356	1.083582		1.13289	1.103343
	510360002	Virginia	Charles	31.7	32.1		27.3	27.8		26.5	27.0		22.0	22.3		1.161172	1.154676		1.196226	1.188889
	510410003	Virginia	Chesterfield	31.2	32.6		25.7	27.0		24.9	26.1		21.1	22.2		1.214008	1.207407		1.253012	1.249042
	510590030	Virginia	Fairfax	34.4	35.0		30.9	31.7		30.5	31.4		26.6	27.4		1.113269	1.104101		1.127869	1.11465
	510591005	Virginia	Fairfax	33.7	35.2		30.4	32.8		30.0	32.6		25.8	29.3		1.108553	1.073171		1.123333	1.079755
	510595001	Virginia	Fairfax	33.3	33.7		30.8	31.2		30.1	30.5		27.1	27.5		1.081169	1.080128		1.106312	1.104918
	510870014	Virginia	Henrico	31.9	32.9		27.1	28.2		26.3	27.3		21.9	22.7		1.177122	1.166667		1.212928	1.205128
	510870015	Virginia	Henrico	29.1	29.6		25.6	26.2		24.9	25.5		19.6	20.5		1.136719	1.129771		1.168675	1.160784
	511071005	Virginia	Loudoun	34.4	35.7		30.9	32.3		30.6	32.0		24.8	26.2		1.113269	1.105263		1.124183	1.115625
	511390004	Virginia	Page	30.0	30.9		28.1	29.0		27.2	28.1		20.4	22.2		1.067616	1.065517		1.102941	1.099644
	515200006	Virginia	Bristol City	30.2	30.5		26.2	26.5		25.3	25.5		20.5	20.6		1.152672	1.150943		1.193676	1.196078
	516500004	Virginia	Hampton City	29.0	29.2		26.8	27.6		25.9	26.6		23.0	24.3		1.08209	1.057971		1.119691	1.097744
	516800015	Virginia	Lynchburg City	30.7	31.1		26.6	26.9		25.6	25.9		19.5	19.9		1.154135	1.156134		1.199219	1.200772
	517100024	Virginia	Norfolk City	29.6	29.9		27.3	27.6		26.4	26.7		23.7	24.0		1.084249	1.083333		1.121212	1.11985
	517700014	Virginia	Roanoke City	32.7	33.2		28.5	28.7		27.2	27.6		23.4	24.4		1.147368	1.156794		1.202206	1.202899
	517750010	Virginia	Salem City	34.0	34.0		29.4	29.4		28.4	28.4		24.3	24.3		1.156463	1.156463		1.197183	1.197183
	518100008	Virginia	Virginia Beach City	30.0	30.2		27.7	27.8		26.8	26.9		24.5	24.5		1.083032	1.086331		1.119403	1.122677
	540030003	West Virginia	Berkeley	34.5	35.8		32.0	32.7		31.6	32.2		29.3	30.0		1.078125	1.094801		1.091772	1.111801
	540090005	West Virginia	Brooke	39.4	41.5		33.9	36.1		33.0	35.2		28.9	30.6		1.162242	1.149584		1.193939	1.178977
	540090011	West Virginia	Brooke	43.9	44.9		39.9	40.8		39.2	40.1		36.4	37.1		1.100251	1.10049		1.119898	1.119701
	540110006	West Virginia	Cabell	35.1	36.6		32.1	33.6		30.8	32.2		23.3	24.6		1.093458	1.089286		1.13961	1.136646
	540291004	West Virginia	Hancock	40.6	41.2		34.3	34.6		32.7	33.2		26.0	26.6		1.183673	1.190751		1.24159	1.240964
	540330003	West Virginia	Harrison	33.5	34.6		33.0	34.0		31.3	32.3		20.2	20.5		1.015152	1.017647		1.070288	1.071207
	540390010	West Virginia	Kanawha	34.7	35.5		32.2	32.9		30.9	31.6		22.2	22.9		1.07764	1.079027		1.122977	1.123418
	540390011	West Virginia	Kanawha	33.1	33.1		30.8	30.8		29.6	29.6		21.5	21.5		1.074675	1.074675		1.118243	1.118243

Daily PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

																RRFs				
	Monitor ID	**State**	**County**	**Avg DV-03-07**	**Max DV-03-07**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		**Avg DV-2012 base**	**Max DV-2012 base**		**Avg DV-2014 base**	**Max DV-2014 base**
	540391005	West Virginia	Kanawha	36.9	37.7		34.3	35.1		33.0	33.7		24.5	25.5		1.075802	1.074074		1.118182	1.118694
	540490006	West Virginia	Marion	33.6	33.7		34.3	34.4		32.8	32.8		20.1	20.2		0.979592	0.979651		1.02439	1.027439
	540511002	West Virginia	Marshall	33.9	34.8		30.0	30.9		28.7	29.6		22.9	23.9		1.13	1.126214		1.181185	1.175676
	540610003	West Virginia	Monongalia	35.6	36.2		33.7	34.3		31.2	31.7		20.4	21.2		1.05638	1.055394		1.141026	1.141956
	540690010	West Virginia	Ohio	32.0	32.0		27.9	27.9		26.9	26.9		24.0	24.0		1.146953	1.146953		1.189591	1.189591
	540810002	West Virginia	Raleigh	30.6	31.3		27.8	28.3		26.7	27.2		19.6	19.9		1.100719	1.106007		1.146067	1.150735
	540890001	West Virginia	Summers	31.2	31.2		27.9	27.9		26.6	26.6		19.2	19.2		1.11828	1.11828		1.172932	1.172932
	541071002	West Virginia	Wood	35.4	36.7		32.7	33.9		31.1	32.2		23.0	23.4		1.082569	1.082596		1.138264	1.139752
	550030010	Wisconsin	Ashland	18.6	20.5		17.8	19.4		17.1	18.8		15.1	16.4		1.044944	1.056701		1.087719	1.090426
	550090005	Wisconsin	Brown	36.5	37.0		35.0	35.4		34.7	35.1		34.5	34.8		1.042857	1.045198		1.051873	1.054131
	550090009	Wisconsin	Brown	35.8	35.8		34.4	34.4		34.2	34.2		34.2	34.2		1.040698	1.040698		1.046784	1.046784
	550250047	Wisconsin	Dane	35.5	36.9		35.1	36.1		34.2	35.3		31.7	32.9		1.011396	1.022161		1.038012	1.045326
	550270007	Wisconsin	Dodge	31.8	33.1		30.8	32.3		29.6	30.9		28.6	29.7		1.032468	1.024768		1.074324	1.071197
	550410007	Wisconsin	Forest	25.2	25.2		23.9	23.9		23.2	23.2		21.3	21.3		1.054393	1.054393		1.086207	1.086207
	550430009	Wisconsin	Grant	34.3	35.0		32.5	33.0		31.7	32.1		30.7	31.4		1.055385	1.060606		1.082019	1.090343
	550590019	Wisconsin	Kenosha	32.7	34.0		32.2	33.5		31.4	32.6		29.9	31.0		1.015528	1.014925		1.041401	1.042945
	550710007	Wisconsin	Manitowoc	29.7	31.6		29.0	30.8		28.3	30.1		27.7	29.3		1.024138	1.025974		1.04947	1.049834
	550790010	Wisconsin	Milwaukee	38.6	40.0		37.7	39.0		37.0	38.3		36.3	37.5		1.023873	1.025641		1.043243	1.044386
	550790026	Wisconsin	Milwaukee	37.3	41.3		36.3	40.1		35.3	39.2		34.4	38.3		1.027548	1.029925		1.056657	1.053571
	550790043	Wisconsin	Milwaukee	39.9	40.8		38.8	39.7		37.3	38.4		36.3	37.7		1.028351	1.027708		1.069705	1.0625
	550790059	Wisconsin	Milwaukee	35.5	37.0		34.8	36.3		33.5	35.1		31.6	33.4		1.020115	1.019284		1.059701	1.054131
	550790099	Wisconsin	Milwaukee	37.7	38.7		36.8	37.7		35.5	37.0		33.3	35.9		1.024457	1.026525		1.061972	1.045946
	550870009	Wisconsin	Outagamie	32.8	34.4		31.2	32.8		30.9	32.5		30.7	32.3		1.051282	1.04878		1.061489	1.058462
	550890009	Wisconsin	Ozaukee	32.5	34.0		31.8	33.2		30.9	32.4		30.0	31.6		1.022013	1.024096		1.05178	1.049383
	551091002	Wisconsin	St. Croix	26.6	26.6		25.5	25.5		24.7	24.7		23.7	23.7		1.043137	1.043137		1.076923	1.076923
	551110007	Wisconsin	Sauk	28.6	28.8		27.5	27.7		26.7	27.1		26.3	26.8		1.04	1.039711		1.071161	1.062731
	551198001	Wisconsin	Taylor	25.3	26.0		23.9	24.7		23.3	24.0		22.7	23.1		1.058577	1.052632		1.085837	1.083333
	551250001	Wisconsin	Vilas	22.6	23.8		21.4	22.6		20.7	21.8		19.2	20.0		1.056075	1.053097		1.091787	1.091743
	551330027	Wisconsin	Waukesha	35.4	36.2		34.9	35.6		33.3	33.9		31.6	31.8		1.014327	1.016854		1.063063	1.067847
	560050877	Wyoming	Campbell	18.6	18.6		18.0	18.0		17.9	17.9		17.9	17.9		1.033333	1.033333		1.039106	1.039106
	560050892	Wyoming	Campbell	12.1	12.2		11.9	12.0		11.9	12.0		11.9	12.0		1.016807	1.016667		1.016807	1.016667
	560050899	Wyoming	Campbell	12.7	13.5		12.5	13.2		12.5	13.2		12.5	13.3		1.016	1.022727		1.016	1.022727
	560090819	Wyoming	Converse	10.0	10.5		9.7	10.3		9.7	10.2		9.7	10.2		1.030928	1.019417		1.030928	1.029412
	560131003	Wyoming	Fremont	29.8	31.9		28.3	30.5		28.0	30.2		28.1	30.3		1.053004	1.045902		1.064286	1.056291
	560210001	Wyoming	Laramie	11.9	12.7		11.5	12.2		11.4	12.1		11.3	12.0		1.034783	1.040984		1.04386	1.049587
	560330002	Wyoming	Sheridan	30.8	32.5		29.8	31.3		29.6	31.0		29.6	31.0		1.033557	1.038339		1.040541	1.048387

Daily PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 35 AND Avg DV-2012 <=35?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	35 ug/m3	35 ug/m3	Max DV-06-09	35 ug/m3	35 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	010030010		1.29064	1.303318		23	21	22	1	0	23	1	0	0			0	0
	010270001		1.47907	1.414847		27	24	25.5	1	0	27	1	0	0			0	0
	010331002		1.543147	1.440758		28	26	27	1	0	28	1	0	0			0	0
	010491003		1.509434	1.516279		29	25	27	1	0	29	1	0	0			0	0
	010530002		1.277533	1.280172		28	25	26.5	1	0	28	1	0	0			0	0
	010550010		1.512931	1.532189		31	28	29.5	1	0	31	1	0	0			0	0
	010690003		1.259912	1.259912		25	23	24	1	0	25	1	0	0			0	0
	010730023		1.235955	1.201087		39	34	36.5	0	1	39	0	1	0			1	1
	010731005		1.354086	1.365385		30	26	28	1	0	30	1	0	0			0	0
	010731009		1.38	1.316981		30	27	28.5	1	0	30	1	0	0			0	0
	010731010		1.489083	1.478448		30	26	28	1	0	30	1	0	0			0	0
	010732003		1.171512	1.165714		37	32	34.5	1	1	37	0	1	0	Flag		0	1
	010732006		1.396624	1.414938		29	25	27	1	0	29	1	0	0			0	0
	010735002		1.486486	1.45		31	27	29	1	0	31	1	0	0			0	0
	010735003		1.426295	1.398467		32	28	30	1	0	32	1	0	0			0	0
	010890014		1.543779	1.522321		29	26	27.5	1	0	29	1	0	0			0	0
	010970002		1.265823	1.265823		22				0			0	0			0	0
	010970003		1.266667	1.272727		24	22	23	1	0	24	1	0	0			0	0
	010972005		1.360825	1.360976		23	22	22.5	1	0	23	1	0	0			0	0
	011010007		1.344538	1.395833		28	21	24.5	1	0	28	1	0	0			0	0
	011030011		1.649215	1.627551		29	27	28	1	0	29	1	0	0			0	0
	011130001		1.25	1.255102		29	28	28.5	1	0	29	1	0	0			0	0
	011170006		1.403509	1.401709		29	26	27.5	1	0	29	1	0	0			0	0
	011190002		1.396135	1.396135		28				0			0	0			0	0
	011210002		1.484444	1.484444		31	29	30	1	0	31	1	0	0			0	0
	011250004		1.342342	1.291845		27	25	26	1	0	27	1	0	0			0	0
	011270002		1.470852	1.348178		30	26	28	1	0	30	1	0	0			0	0
	050010011		1.341014	1.345455		27	26	26.5	1	0	27	1	0	0			0	0
	050030005		1.214286	1.220408		26	22	24	1	0	26	1	0	0			0	0
	050350005		1.569507	1.569507		31	27	29	1	0	31	1	0	0			0	0
	050450002		1.290043	1.302128		25	24	24.5	1	0	25	1	0	0			0	0
	050510003		1.33945	1.3379		25	24	24.5	1	0	25	1	0	0			0	0
	050930007		1.352679	1.352679						0			0	0			0	0
	051070001		1.347222	1.296137		27	25	26	1	0	27	1	0	0			0	0
	051130002		1.366492	1.442708		25	24	24.5	1	0	25	1	0	0			0	0
	051150003		1.164609	1.187755		26	25	25.5	1	0	26	1	0	0			0	0
	051190007		1.254032	1.250996		27	26	26.5	1	0	27	1	0	0			0	0
	051191004		1.226923	1.208955		30	29	29.5	1	0	30	1	0	0			0	0
	051191005		1.208333	1.205224		27				0			0	0			0	0
	051390006		1.237069	1.248945		24	23	23.5	1	0	24	1	0	0			0	0
	051450001		1.311404	1.34632		27	26	26.5	1	0	27	1	0	0			0	0
	080010006		1.063025	1.054152		30	29	29.5	1	0	30	1	0	0			0	0
	080050005		1.070707	1.072464		19	18	18.5	1	0	19	1	0	0			0	0
	080130003		1.071066	1.072115		24	23	23.5	1	0	24	1	0	0			0	0
	080130012		1.087209	1.082418		19	19	19	1	0	19	1	0	0			0	0
	080290004		1.143646	1.14359		16				0			0	0			0	0
	080310002		1.027237	1.029851		25	23	24	1	0	25	1	0	0			0	0
	080310023		1.023346	1.023346		25	24	24.5	1	0	25	1	0	0			0	0
	080390001		1.082645	1.086331		14	11	12.5	1	0	14	1	0	0			0	0
	080410008		1.093333	1.098684		14				0			0	0			0	0

Daily PM Design Values
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						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 35 AND Avg DV-2012 <=35?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	35 ug/m3	35 ug/m3	Max DV-06-09	35 ug/m3	35 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	080410011		1.085526	1.09434		20	23	21.5	1	0	23	1	0	0			0	0
	080690009		1.08284	1.074286		19	18	18.5	1	0	19	1	0	0			0	0
	080770017		1.053812	1.055794		25	31	28	1	0	31	1	0	0			0	0
	081010012		1.092199	1.089655		16	16	16	1	0	16	1	0	0			0	0
	081130004		1.030612	1.027273		16				0			0	0			0	0
	081230006		1.065116	1.057522		24	25	24.5	1	0	25	1	0	0			0	0
	081230008		1.098361	1.107477		26	26	26	1	0	26	1	0	0			0	0
	090010010		1.214765	1.20712		33	31	32	1	0	33	1	0	0			0	0
	090011123		1.137809	1.143357		31	29	30	1	0	31	1	0	0			0	0
	090013005		1.187075	1.190635		31	29	30	1	0	31	1	0	0			0	0
	090019003		1.305344	1.379699		30	29	29.5	1	0	30	1	0	0			0	0
	090031003		1.247059	1.230189		28	26	27	1	0	28	1	0	0			0	0
	090050005		1.497238	1.497238		26	23	24.5	1	0	26	1	0	0			0	0
	090090026		1.257951	1.306897		32	30	31	1	0	32	1	0	0			0	0
	090090027		1.175497	1.192053		33	31	32	1	0	33	1	0	0			0	0
	090091123		1.185759	1.232416		34	31	32.5	1	1	34	1	1	0	Flag		0	1
	090092008		1.267925	1.343173		29	27	28	1	0	29	1	0	0			0	0
	090092123		1.202797	1.16443		32	30	31	1	0	32	1	0	0			0	0
	090113002		1.311475	1.354331		27	26	26.5	1	0	27	1	0	0			0	0
	100010002		1.284	1.238462		30	26	28	1	0	30	1	0	0			0	0
	100010003		1.317992	1.255814		30	26	28	1	0	30	1	0	0			0	0
	100031003		1.227106	1.220641		32	29	30.5	1	0	32	1	0	0			0	0
	100031007		1.253846	1.273063		29	26	27.5	1	0	29	1	0	0			0	0
	100031012		1.218045	1.218182		30	28	29	1	0	30	1	0	0			0	0
	100032004		1.154574	1.143302		36	32	34	1	0	36	0	0	0			0	0
	100051002		1.262172	1.242754		31	27	29	1	0	31	1	0	0			0	0
	110010041		1.163462	1.148936		32	29	30.5	1	0	32	1	1	1		Flag	0	0
	110010042		1.144262	1.114458		31	28	29.5	1	0	31	1	1	1		Flag	0	0
	110010043		1.136667	1.111821		32	29	30.5	1	0	32	1	0	0			0	0
	120010023		1.360465	1.346341		18	17	17.5	1	0	18	1	0	0			0	0
	120010024		1.360248	1.388889		20	20	20	1	0	20	1	0	0			0	0
	120051004		1.234783	1.232068		24	22	23	1	0	24	1	0	0			0	0
	120090007		1.262195	1.264368		22	18	20	1	0	22	1	0	0			0	0
	120111002		1.18239	1.187135		19	18	18.5	1	0	19	1	0	0			0	0
	120112004		1.130178	1.153409		19	17	18	1	0	19	1	0	0			0	0
	120113002		1.194805	1.194805		18	15	16.5	1	0	18	1	0	0			0	0
	120170005		1.35625	1.351852		18	17	17.5	1	0	18	1	0	0			0	0
	120310098		1.223881	1.240385		20	20	20	1	0	20	1	0	0			0	0
	120310099		1.100437	1.1125		22	21	21.5	1	0	22	1	0	0			0	0
	120330004		1.190083	1.224		24	21	22.5	1	0	24	1	0	0			0	0
	120570030		1.168317	1.15942		19	18	18.5	1	0	19	1	0	0			0	0
	120573002		1.202073	1.213198		19	18	18.5	1	0	19	1	0	0			0	0
	120710005		1.253521	1.263889		17	15	16	1	0	17	1	0	0			0	0
	120730012		1.26087	1.290984		23	22	22.5	1	0	23	1	0	0			0	0
	120814012		1.381944	1.383562		19	18	18.5	1	0	19	1	0	0			0	0
	120830003		1.281768	1.309783		21	24	22.5	1	0	24	1	0	0			0	0
	120861016		1.108571	1.114286		19	18	18.5	1	0	19	1	0	0			0	0
	120866001		1.233766	1.229299		18	16	17	1	0	18	1	0	0			0	0
	120951004		1.254335	1.238636		18	17	17.5	1	0	18	1	0	0			0	0
	120952002		1.270588	1.278409		19	18	18.5	1	0	19	1	0	0			0	0

Daily PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 35 AND Avg DV-2012 <=35?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	35 ug/m3	35 ug/m3	Max DV-06-09	35 ug/m3	35 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	120990009		1.145455	1.145455		17	15	16	1	0	17	1	0	0			0	0
	120992005		1.197368	1.171975		18	17	17.5	1	0	18	1	0	0			0	0
	121030018		1.15873	1.197917		20	18	19	1	0	20	1	0	0			0	0
	121031009		1.261905	1.264368		20	18	19	1	0	20	1	0	0			0	0
	121056006		1.21875	1.206061		17	15	16	1	0	17	1	0	0			0	0
	121111002		1.307692	1.308725		18	18	18	1	0	18	1	0	0			0	0
	121150013		1.328859	1.326797		17	17	17	1	0	17	1	0	0			0	0
	121171002		1.398773	1.393939		19	18	18.5	1	0	19	1	0	0			0	0
	121275002		1.467532	1.535714		19	19	19	1	0	19	1	0	0			0	0
	130210007		1.268939	1.2		33	31	32	1	0	33	1	0	0			0	0
	130210012		1.358407	1.330508		29	28	28.5	1	0	29	1	0	0			0	0
	130510017		1.213675	1.214286		26	24	25	1	0	26	1	0	0			0	0
	130510091		1.197425	1.211864		24	24	24	1	0	24	1	0	0			0	0
	130630091		1.260563	1.304498		30	27	28.5	1	0	30	1	0	0			0	0
	130670003		1.30597	1.344444		32	29	30.5	1	0	32	1	0	0			0	0
	130670004		1.386179	1.389105		32	27	29.5	1	0	32	1	0	0			0	0
	130890002		1.289575	1.28626		31	29	30	1	0	31	1	0	0			0	0
	130892001		1.210714	1.2		30	29	29.5	1	0	30	1	0	0			0	0
	130950007		1.235507	1.217993		34	33	33.5	1	0	34	1	0	0			0	0
	131150005		1.3	1.29078		32	33	32.5	1	0	33	1	0	0			0	0
	131210032		1.231047	1.194539		32	29	30.5	1	0	32	1	0	0			0	0
	131210039		1.249169	1.249169		24	20	22	1	0	24	1	0	0			0	0
	131270006		1.219626	1.230415		25	25	25	1	0	25	1	0	0			0	0
	131350002		1.28125	1.315789		29	26	27.5	1	0	29	1	0	0			0	0
	131390003		1.233871	1.238281		29	26	27.5	1	0	29	1	0	0			0	0
	131530001		1.351598	1.204724		30	29	29.5	1	0	30	1	0	0			0	0
	131850003		1.245192	1.168889		25	25	25	1	0	25	1	0	0			0	0
	132150001		1.203846	1.255725		30	29	29.5	1	0	30	1	0	0			0	0
	132150008		1.358268	1.457364		30	29	29.5	1	0	30	1	0	0			0	0
	132150011		1.230769	1.240964		30	29	29.5	1	0	30	1	0	0			0	0
	132230003		1.460177	1.429185		31	28	29.5	1	0	31	1	0	0			0	0
	132450005		1.108475	1.109635		30	28	29	1	0	30	1	0	0			0	0
	132450091		1.185874	1.168459		30	28	29	1	0	30	1	0	0			0	0
	132950002		1.349345	1.342975		30	29	29.5	1	0	30	1	0	0			0	0
	133030001		1.387387	1.395556		29	29	29	1	0	29	1	0	0			0	0
	133190001		1.253788	1.203571		30	29	29.5	1	0	30	1	0	0			0	0
	170010006		1.231373	1.251938		21	16	18.5	1	0	21	1	0	0			0	0
	170190004		1.337607	1.226415		29	27	28	1	0	29	1	0	0			0	0
	170191001		1.239669	1.200758		27	26	26.5	1	0	27	1	0	0			0	0
	170310022		1.10241	1.102857		31	31	31	1	0	31	1	1	1		Flag	0	0
	170310050		1.191419	1.180124		29	29	29	1	0	29	1	1	1		Flag	0	0
	170310052		1.098361	1.106952		33	33	33	1	1	33	1	1	0	Flag		0	1
	170310057		1.195513	1.195046		31	33	32	1	1	33	1	1	0	Flag		0	1
	170310076		1.176471	1.195719		32	31	31.5	1	1	32	1	1	0	Flag		0	1
	170311016		1.140584	1.123786		35	34	34.5	1	1	35	1	1	0	Flag		0	1
	170312001		1.193038	1.176812		31	31	31	1	1	31	1	1	0	Flag		0	1
	170313103		1.103064	1.10411		33	33	33	1	1	33	1	1	0	Flag		0	1
	170313301		1.151862	1.160858		31	32	31.5	1	1	32	1	1	0	Flag		0	1
	170314007		1.128289	1.106383		29	30	29.5	1	0	30	1	1	1		Flag	0	0
	170314201		1.13879	1.141892		30	29	29.5	1	0	30	1	0	0			0	0

Daily PM Design Values
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						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 35 AND Avg DV-2012 <=35?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	35 ug/m3	35 ug/m3	Max DV-06-09	35 ug/m3	35 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	170316005		1.098315	1.094241		33	33	33	1	1	33	1	1	0	Flag		0	1
	170434002		1.077882	1.065282		32	31	31.5	1	0	32	1	1	1		Flag	0	0
	170650002		1.442922	1.442922		27	27	27	1	0	27	1	0	0			0	0
	170831001		1.258824	1.296875		27	24	25.5	1	0	27	1	0	0			0	0
	170890003		1.145763	1.168317		33	31	32	1	0	33	1	0	0			0	0
	170890007		1.118971	1.118971		29	29	29	1	0	29	1	0	0			0	0
	170971007		1.259542	1.223776		27	26	26.5	1	0	27	1	1	1		Flag	0	0
	170990007		1.179592	1.181818		26	26	26	1	0	26	1	0	0			0	0
	171110001		1.105263	1.108844		28	27	27.5	1	0	28	1	0	0			0	0
	171132003		1.320158	1.320158		27	27	27	1	0	27	1	0	0			0	0
	171150013		1.377593	1.359684		29	28	28.5	1	0	29	1	0	0			0	0
	171190023		1.158385	1.137313		33				1			1	0			1	1
	171191007		1.139942	1.083784		35	31	33	1	1	35	1	1	0	Flag		0	1
	171192009		1.22028	1.225256		31	28	29.5	1	1	31	1	1	0	Flag		0	1
	171193007		1.25	1.22695		29	27	28	1	1	29	1	1	0	Flag		0	1
	171430037		1.163701	1.167808		30	29	29.5	1	0	30	1	1	1		Flag	0	0
	171570001		1.133333	1.115672		26	25	25.5	1	0	26	1	0	0			0	0
	171613002		1.119565	1.101754		26	23	24.5	1	0	26	1	0	0			0	0
	171630010		1.146259	1.13289		29	27	28	1	1	29	1	1	0	Flag		0	1
	171634001		1.137809	1.15035		29	28	28.5	1	0	29	1	1	1		Flag	0	0
	171670012		1.201439	1.196491		29	27	28	1	0	29	1	0	0			0	0
	171971002		1.22973	1.192926		32	32	32	1	1	32	1	1	0	Flag		0	1
	171971011		1.441315	1.447489		26	25	25.5	1	0	26	1	0	0			0	0
	172010013		1.141447	1.141447		29	28	28.5	1	0	29	1	0	0			0	0
	180030004		1.110738	1.11254		30	31	30.5	1	0	31	1	0	0			0	0
	180030014		1.139706	1.122378		29	32	30.5	1	0	32	1	0	0			0	0
	180190006		1.311189	1.335593		35	32	33.5	1	1	35	1	1	0	Flag		0	1
	180350006		1.226054	1.277567		28	26	27	1	0	28	1	0	0			0	0
	180372001		1.265233	1.205882		30	28	29	1	1	30	1	1	0	Flag		0	1
	180390003		1.186207	1.190164		29	33	31	1	0	33	1	1	1		Flag	0	0
	180431004		1.394958	1.363636		30	29	29.5	1	0	30	1	1	1		Flag	0	0
	180650003		1.218391	1.218391		28	26	27	1	0	28	1	0	0			0	0
	180670003		1.303644	1.275194		30	28	29	1	0	30	1	0	0			0	0
	180830004		1.246528	1.190164		30	26	28	1	1	30	1	1	0	Flag		0	1
	180890006		1.115016	1.105919		31	30	30.5	1	0	31	1	0	0			0	0
	180890022		1.101983	1.105528		31	31	31	1	1	31	1	1	0	Flag		0	1
	180890026		1.174312	1.153631		33	34	33.5	1	1	34	1	1	0	Flag		0	1
	180890027		1.124138	1.11039		29	30	29.5	1	0	30	1	0	0			0	0
	180890031		1.259259	1.259259		31	32	31.5	1	0	32	1	0	0			0	0
	180891003		1.108475	1.105611		30	34	32	1	0	34	1	0	0			0	0
	180892004		1.122867	1.107843		31	33	32	1	0	33	1	0	0			0	0
	180892010		1.17931	1.148387		30	30	30	1	0	30	1	0	0			0	0
	180910011		1.263158	1.263158		29	28	28.5	1	0	29	1	0	0			0	0
	180910012		1.190661	1.169118		28	31	29.5	1	0	31	1	0	0			0	0
	180950009		1.237736	1.268657		29	28	28.5	1	0	29	1	1	1		Flag	0	0
	180970042		1.195804	1.161184		33	36	34.5	1	1	36	0	1	0	Flag		0	1
	180970043		1.156627	1.159884		35	32	33.5	1	1	35	1	1	0	Flag		0	1
	180970066		1.200627	1.196375		34	33	33.5	1	1	34	1	1	0	Flag		0	1
	180970078		1.12963	1.115727		33	31	32	1	1	33	1	1	0	Flag		0	1
	180970079		1.244755	1.269896		32	34	33	1	1	34	1	1	0	Flag		0	1

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						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 35 AND Avg DV-2012 <=35?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	35 ug/m3	35 ug/m3	Max DV-06-09	35 ug/m3	35 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	180970081		1.236246	1.264516		34	32	33	1	1	34	1	1	0	Flag		0	1
	180970083		1.262069	1.258503		33	30	31.5	1	1	33	1	1	0	Flag		0	1
	181270020		1.264591	1.276753		29	31	30	1	0	31	1	0	0			0	0
	181270024		1.177778	1.182482		29	31	30	1	0	31	1	0	0			0	0
	181410014		1.157143	1.14527		29	28	28.5	1	0	29	1	0	0			0	0
	181411008		1.141379	1.141379		25				0			0	0			0	0
	181412004		1.12782	1.109541		28	31	29.5	1	0	31	1	0	0			0	0
	181470009		1.27668	1.277992		27	26	26.5	1	0	27	1	1	1		Flag	0	0
	181570008		1.20678	1.227425		29	28	28.5	1	1	29	1	1	0	Flag		0	1
	181630006		1.288889	1.281588		30	28	29	1	0	30	1	0	0			0	0
	181630012		1.257576	1.264706		28	27	27.5	1	0	28	1	0	0			0	0
	181630016		1.172662	1.16609		29	28	28.5	1	0	29	1	0	0			0	0
	181670018		1.066869	1.066869		29	27	28	1	1	29	1	1	0	Flag		0	1
	181670023		1.12987	1.124611		30	27	28.5	1	1	30	1	1	0	Flag		0	1
	190130008		1.114815	1.106227		28	29	28.5	1	0	29	1	0	0			0	0
	190450021		1.118812	1.136076		28	28	28	1	0	28	1	1	1		Flag	0	0
	191032001		1.11254	1.076453		29	29	29	1	0	29	1	0	0			0	0
	191130037		1.104693	1.11		25	28	26.5	1	0	28	1	0	0			0	0
	191370002		1.222222	1.193966		23	21	22	1	0	23	1	0	0			0	0
	191390015		1.121495	1.135542		35	38	36.5	0	0	38	0	1	1			0	1
	191471002		1.229665	1.229665		24	24	24	1	0	24	1	0	0			0	0
	191530030		1.163934	1.155378		25	25	25	1	0	25	1	0	0			0	0
	191532510		1.20354	1.18		23	25	24	1	0	25	1	0	0			0	0
	191532520		1.167286	1.167286						0			0	0			0	0
	191550009		1.162602	1.156		25	25	25	1	0	25	1	0	0			0	0
	191630015		1.080139	1.095563		28	28	28	1	0	28	1	0	0			0	0
	191630018		1.091216	1.081169		29	29	29	1	0	29	1	0	0			0	0
	191630019		1.163009	1.163009		34	33	33.5	1	1	34	1	1	0	Flag		0	1
	191770006		1.155102	1.155102		26	25	25.5	1	0	26	1	0	0			0	0
	191930017		1.137931	1.131474		28	28	28	1	0	28	1	0	0			0	0
	191970004		1.181818	1.17551		29	29	29	1	0	29	1	0	0			0	0
	200910007		1.144796	1.152174		21	21	21	1	0	21	1	0	0			0	0
	200910009		1.126923	1.126923		21				0			0	0			0	0
	200910010		1.192893	1.191919		20	20	20	1	0	20	1	0	0			0	0
	201070002		1.199052	1.218605		21	21	21	1	0	21	1	0	0			0	0
	201730008		1.185	1.182243		22	22	22	1	0	22	1	0	0			0	0
	201730009		1.116071	1.113924		22	23	22.5	1	0	23	1	0	0			0	0
	201730010		1.114537	1.120332		22	22	22	1	0	22	1	0	0			0	0
	201770010		1.159363	1.159363		24				0			0	0			0	0
	201770011		1.202479	1.202479		24				0			0	0			0	0
	201910002		1.175258	1.173267		21	21	21	1	0	21	1	0	0			0	0
	202090021		1.161417	1.175824		23	22	22.5	1	0	23	1	0	0			0	0
	202090022		1.141631	1.125984		22	25	23.5	1	0	25	1	0	0			0	0
	210130002		1.384977	1.422018		27	26	26.5	1	0	27	1	0	0			0	0
	210190017		1.614634	1.615023		30	29	29.5	1	0	30	1	0	0			0	0
	210290006		1.441667	1.455285		31	28	29.5	1	0	31	1	1	1		Flag	0	0
	210370003		1.209302	1.209302		25				0			0	0			0	0
	210430500		1.728324	1.677419		26	23	24.5	1	0	26	1	0	0			0	0
	210470006		1.623188	1.623188		31	29	30	1	0	31	1	0	0			0	0
	210590005		1.557604	1.557604		30	28	29	1	1	30	1	1	0	Flag		0	1

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						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 35 AND Avg DV-2012 <=35?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	35 ug/m3	35 ug/m3	Max DV-06-09	35 ug/m3	35 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	210670012		1.345992	1.33871		29	26	27.5	1	0	29	1	0	0			0	0
	210670014		1.37395	1.349593		29	25	27	1	0	29	1	0	0			0	0
	210730006		1.433036	1.414226		29	26	27.5	1	0	29	1	0	0			0	0
	210930006		1.607843	1.532751		32	29	30.5	1	0	32	1	1	1		Flag	0	0
	211010014		1.353191	1.334694		28	27	27.5	1	0	28	1	0	0			0	0
	211110043		1.301471	1.227891		32	29	30.5	1	1	32	1	1	0	Flag		0	1
	211110044		1.307971	1.284211		33	30	31.5	1	1	33	1	1	0	Flag		0	1
	211110048		1.38403	1.377778		33	31	32	1	1	33	1	1	0	Flag		0	1
	211110051		1.565217	1.617225		31	29	30	1	0	31	1	0	0			0	0
	211170007		1.371542	1.377432		30	27	28.5	1	0	30	1	1	1		Flag	0	0
	211250004		1.502994	1.502994		16				0			0	0			0	0
	211451004		1.454545	1.521186		32	28	30	1	0	32	1	1	1		Flag	0	0
	211510003		1.54359	1.437209		28	25	26.5	1	0	28	1	0	0			0	0
	211930003		1.610169	1.610811		27	27	27	1	0	27	1	0	0			0	0
	211950002		1.588542	1.554455		28	26	27	1	0	28	1	0	0			0	0
	212270007		1.532407	1.450413		36	38	37	0	0	38	0	1	1			0	1
	220171002		1.233184	1.233184						0			0	0			0	0
	220190009		1.21608	1.205607		23	20	21.5	1	0	23	1	0	0			0	0
	220190010		1.234742	1.230769		23	22	22.5	1	0	23	1	0	0			0	0
	220290003		1.298507	1.298507		26				0			0	0			0	0
	220330009		1.172	1.168582		27	22	24.5	1	0	27	1	0	0			0	0
	220331001		1.203791	1.208333		21	18	19.5	1	0	21	1	0	0			0	0
	220470005		1.148594	1.140078		27	23	25	1	0	27	1	0	0			0	0
	220470009		1.285714	1.305164		24	19	21.5	1	0	24	1	0	0			0	0
	220511001		1.232877	1.229075		23	20	21.5	1	0	23	1	0	0			0	0
	220550006		1.337017	1.340659		23	20	21.5	1	0	23	1	0	0			0	0
	220730004		1.256522	1.275		26	21	23.5	1	0	26	1	0	0			0	0
	220790002		1.324561	1.324324		23	18	20.5	1	0	23	1	0	0			0	0
	221050001		1.259574	1.231707		25	22	23.5	1	0	25	1	0	0			0	0
	221090001		1.329949	1.326633		23	19	21	1	0	23	1	0	0			0	0
	221210001		1.16	1.146154		27	23	25	1	0	27	1	0	0			0	0
	230010011		1.118143	1.141732		24	24	24	1	0	24	1	0	0			0	0
	230030013		1.075556	1.067227		24	25	24.5	1	0	25	1	0	0			0	0
	230031011		1.117073	1.094595		20	19	19.5	1	0	20	1	0	0			0	0
	230050015		1.163866	1.144487		21	20	20.5	1	0	21	1	0	0			0	0
	230050027		1.15873	1.160448		25				0			0	0			0	0
	230090103		1.395683	1.407143		19	16	17.5	1	0	19	1	0	0			0	0
	230110016		1.13913	1.142276		20	20	20	1	0	20	1	0	0			0	0
	230172011		1.141129	1.169231		22	20	21	1	0	22	1	0	0			0	0
	230190002		1.195652	1.191176		22	22	22	1	0	22	1	0	0			0	0
	240030014		1.225092	1.225092						0			0	0			0	0
	240031003		1.079027	1.036011		34	31	32.5	1	0	34	1	1	1		Flag	0	0
	240032002		1.117647	1.117647						0			0	0			0	0
	240051007		1.172535	1.140468		32	28	30	1	0	32	1	0	0			0	0
	240053001		1.151125	1.159875		33	32	32.5	1	0	33	1	0	0			0	0
	240150003		1.227092	1.254826		30	30	30	1	0	30	1	0	0			0	0
	240251001		1.333333	1.319328		29	26	27.5	1	0	29	1	0	0			0	0
	240313001		1.271605	1.277108		28	26	27	1	0	28	1	0	0			0	0
	240330030		1.331933	1.331933		31	28	29.5	1	0	31	1	0	0			0	0
	240338003		1.309804	1.330769		31	26	28.5	1	0	31	1	0	0			0	0

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						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 35 AND Avg DV-2012 <=35?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	35 ug/m3	35 ug/m3	Max DV-06-09	35 ug/m3	35 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	240430009		1.210145	1.228374		30	27	28.5	1	0	30	1	0	0			0	0
	245100006		1.164336	1.165517		33	30	31.5	1	0	33	1	0	0			0	0
	245100007		1.213287	1.24055		33	30	31.5	1	0	33	1	0	0			0	0
	245100008		1.120482	1.110119		35	32	33.5	1	0	35	1	0	0			0	0
	245100035		1.128743	1.146199		34	33	33.5	1	0	34	1	1	1		Flag	0	0
	245100040		1.114286	1.111413		34	31	32.5	1	1	34	1	1	0	Flag		0	1
	245100049		1.110787	1.110787						1			1	0			1	1
	250035001		1.127273	1.131757		27	27	27	1	0	27	1	0	0			0	0
	250051004		1.282051	1.326733		25	24	24.5	1	0	25	1	0	0			0	0
	250092006		1.200837	1.210145		26	24	25	1	0	26	1	0	0			0	0
	250095005		1.34466	1.339367		25	23	24	1	0	25	1	0	0			0	0
	250096001		1.203463	1.187234		27	24	25.5	1	0	27	1	0	0			0	0
	250130008		1.212389	1.207792		28	27	27.5	1	0	28	1	0	0			0	0
	250130016		1.141343	1.14726		31	28	29.5	1	0	31	1	0	0			0	0
	250132009		1.141379	1.132653		31	29	30	1	0	31	1	0	0			0	0
	250230004		1.345972	1.303167		28	25	26.5	1	0	28	1	0	0			0	0
	250250002		1.122137	1.11236		29	26	27.5	1	0	29	1	0	0			0	0
	250250027		1.131783	1.138996		27	26	26.5	1	0	27	1	0	0			0	0
	250250042		1.130435	1.127907		28	26	27	1	0	28	1	0	0			0	0
	250250043		1.130282	1.13		28	27	27.5	1	0	28	1	0	0			0	0
	250270016		1.25	1.22449		29	27	28	1	0	29	1	0	0			0	0
	250270023		1.215139	1.214286		28	26	27	1	0	28	1	0	0			0	0
	260050003		1.141892	1.133333		30	27	28.5	1	0	30	1	0	0			0	0
	260170014		1.157509	1.142349		26	24	25	1	0	26	1	0	0			0	0
	260210014		1.203846	1.196296		29	27	28	1	0	29	1	0	0			0	0
	260490021		1.125926	1.130742		26	26	26	1	0	26	1	0	0			0	0
	260650012		1.131206	1.114583		27	27	27	1	0	27	1	0	0			0	0
	260770008		1.17803	1.179856		28	28	28	1	0	28	1	0	0			0	0
	260810020		1.19281	1.192926		29	28	28.5	1	0	29	1	0	0			0	0
	260990009		1.117089	1.097859		31	28	29.5	1	0	31	1	0	0			0	0
	261130001		1.252525	1.266332		22	21	21.5	1	0	22	1	0	0			0	0
	261150005		1.24359	1.253165		31	28	29.5	1	1	31	1	1	0	Flag		0	1
	261210040		1.217544	1.244898		28	27	27.5	1	0	28	1	0	0			0	0
	261250001		1.136752	1.116022		33	32	32.5	1	1	33	1	1	0	Flag		0	1
	261390005		1.114007	1.112179		28	27	27.5	1	0	28	1	0	0			0	0
	261450018		1.176923	1.176923						0			0	0			0	0
	261470005		1.14121	1.146893		35	32	33.5	1	1	35	1	1	0	Flag		0	1
	261610005		1.2	1.2						0			0	0			0	0
	261610008		1.106742	1.127072		31	30	30.5	1	1	31	1	1	0	Flag		0	1
	261630001		1.152439	1.148997		32	30	31	1	1	32	1	1	0	Flag		0	1
	261630015		1.179412	1.170029		35	33	34	1	1	35	1	1	0	Flag		0	1
	261630016		1.123037	1.112745		34	32	33	1	1	34	1	1	0	Flag		0	1
	261630019		1.105405	1.104		33	31	32	1	1	33	1	1	0	Flag		0	1
	261630025		1.189831	1.206557		31	30	30.5	1	0	31	1	0	0			0	0
	261630033		1.120205	1.121827		37	35	36	0	1	37	0	1	0			1	1
	261630036		1.078488	1.067606		29	27	28	1	1	29	1	1	0	Flag		0	1
	261630039		1.134969	1.134969		33	33	33	1	0	33	1	0	0			0	0
	270210001		1.16129	1.157576		21	21	21	1	0	21	1	0	0			0	0
	270370470		1.154545	1.153153		23	29	26	1	0	29	1	0	0			0	0
	270530050		1.177489	1.176471		30				0			0	0			0	0

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						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 35 AND Avg DV-2012 <=35?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	35 ug/m3	35 ug/m3	Max DV-06-09	35 ug/m3	35 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	270530961		1.138393	1.144105		23	28	25.5	1	0	28	1	0	0			0	0
	270530963		1.160714	1.158333		23	29	26	1	0	29	1	0	0			0	0
	270530965		1.138249	1.133333		27				0			0	0			0	0
	270531007		1.149321	1.147321		25	31	28	1	0	31	1	0	0			0	0
	270532006		1.150862	1.150628		24	28	26	1	0	28	1	0	0			0	0
	270953051		1.134021	1.132653		21	22	21.5	1	0	22	1	0	0			0	0
	271230866		1.106719	1.105263		26	31	28.5	1	0	31	1	0	0			0	0
	271230868		1.150407	1.142322		27	33	30	1	0	33	1	0	0			0	0
	271230871		1.148472	1.140426		29	34	31.5	1	0	34	1	0	0			0	0
	271377001		1.153409	1.139785		17	16	16.5	1	0	17	1	0	0			0	0
	271377550		1.196319	1.210843		20	22	21	1	0	22	1	0	0			0	0
	271377551		1.21134	1.220513		23	24	23.5	1	0	24	1	0	0			0	0
	271390505		1.15814	1.136564		23	27	25	1	0	27	1	0	0			0	0
	271453052		1.142077	1.142077		20	24	22	1	0	24	1	0	0			0	0
	280010004		1.376884	1.369458		24	21	22.5	1	0	24	1	0	0			0	0
	280110001		1.313636	1.3		26	25	25.5	1	0	26	1	0	0			0	0
	280330002		1.502439	1.442396		26	24	25	1	0	26	1	0	0			0	0
	280350004		1.220884	1.219608		29	25	27	1	0	29	1	0	0			0	0
	280470008		1.292373	1.301653		25	22	23.5	1	0	25	1	0	0			0	0
	280490010		1.364929	1.372642		25	24	24.5	1	0	25	1	0	0			0	0
	280590006		1.293578	1.295154		24	23	23.5	1	0	24	1	0	0			0	0
	280670002		1.233202	1.215385		29	25	27	1	0	29	1	0	0			0	0
	280750003		1.307018	1.295652		27	26	26.5	1	0	27	1	0	0			0	0
	280810005		1.465753	1.484444		29	27	28	1	0	29	1	0	0			0	0
	280870001		1.493088	1.441048		27	25	26	1	0	27	1	0	0			0	0
	281090001		1.261062	1.261062						0			0	0			0	0
	281490004		1.313043	1.313043						0			0	0			0	0
	290190004		1.193676	1.193676		20				0			0	0			0	0
	290210005		1.180392	1.180392		26	25	25.5	1	0	26	1	0	0			0	0
	290370003		1.201878	1.213953		22	25	23.5	1	0	25	1	0	0			0	0
	290390001		1.28125	1.28125		23	21	22	1	0	23	1	0	0			0	0
	290470005		1.138211	1.121569		24	23	23.5	1	0	24	1	0	0			0	0
	290770032		1.276018	1.283843		25	24	24.5	1	0	25	1	0	0			0	0
	290950034		1.160643	1.161654		26	26	26	1	0	26	1	0	0			0	0
	290990012		1.124579	1.13245		28	27	27.5	1	1	28	1	1	0	Flag		0	1
	291370001		1.22467	1.22467		24				0			0	0			0	0
	291831002		1.157343	1.160535		29	30	29.5	1	1	30	1	1	0	Flag		0	1
	291860006		1.241107	1.189591		28	25	26.5	1	0	28	1	0	0			0	0
	291890004		1.230769	1.230769		23				0			0	0			0	0
	291892003		1.070968	1.06962		28	26	27	1	0	28	1	0	0			0	0
	295100007		1.137457	1.109272		30	28	29	1	1	30	1	1	0	Flag		0	1
	295100085		1.114094	1.111842		31	29	30	1	1	31	1	1	0	Flag		0	1
	295100086		1.105442	1.105085		32	34	33	1	0	34	1	0	0			0	0
	295100087		1.113636	1.108626		30	29	29.5	1	1	30	1	1	0	Flag		0	1
	300870307		1.031414	1.031414						0			0	0			0	0
	301111065		1.043243	1.031915		19	17	18	1	0	19	1	0	0			0	0
	310550019		1.151515	1.16129		23	24	23.5	1	0	24	1	0	0			0	0
	310550052		1.152466	1.145299		23	21	22	1	0	23	1	0	0			0	0
	310790004		1.171779	1.171779		18	18	18	1	0	18	1	0	0			0	0
	311090022		1.138249	1.117647		18	17	17.5	1	0	18	1	0	0			0	0

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						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 35 AND Avg DV-2012 <=35?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	35 ug/m3	35 ug/m3	Max DV-06-09	35 ug/m3	35 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	311111002		1.117925	1.117925						0			0	0			0	0
	311530007		1.147619	1.150943		24	22	23	1	0	24	1	0	0			0	0
	311570003		1.084967	1.084967		19	17	18	1	0	19	1	0	0			0	0
	311770002		1.147619	1.148148		21	19	20	1	0	21	1	0	0			0	0
	330012004		1.423611	1.436242		18	16	17	1	0	18	1	0	0			0	0
	330050007		1.143939	1.156716		29	29	29	1	0	29	1	0	0			0	0
	330070014		1.188341	1.190265		23				0			0	0			0	0
	330090010		1.270718	1.270718		19	20	19.5	1	0	20	1	0	0			0	0
	330110020		1.134921	1.134921						0			0	0			0	0
	330111015		1.114286	1.114286		27	25	26	1	0	27	1	0	0			0	0
	330115001		1.51462	1.51462						0			0	0			0	0
	330131006		1.254902	1.26087		24	24	24	1	0	24	1	0	0			0	0
	330150014		1.200913	1.213974		24	22	23	1	0	24	1	0	0			0	0
	330190003		1.37619	1.350877		21	19	20	1	0	21	1	0	0			0	0
	340030003		1.174603	1.174455		35	31	33	1	0	35	1	0	0			0	0
	340070003		1.341912	1.33564		35	35	35	1	0	35	1	0	0			0	0
	340071007		1.243333	1.251613		34	29	31.5	1	0	34	1	1	1		Flag	0	0
	340130015		1.264026	1.207547		35	32	33.5	1	0	35	1	0	0			0	0
	340155001		1.278884	1.278884		24				0			0	0			0	0
	340171003		1.18541	1.19469		36	32	34	1	1	36	0	1	0	Flag		0	1
	340172002		1.131148	1.131148		38	33	35.5	0	1	38	0	1	0			1	1
	340210008		1.334615	1.345865		33	29	31	1	0	33	1	0	0			0	0
	340218001		1.433333	1.433333		28	26	27	1	0	28	1	0	0			0	0
	340230006		1.333333	1.400735		31	27	29	1	0	31	1	0	0			0	0
	340270004		1.281746	1.267925		29	26	27.5	1	0	29	1	0	0			0	0
	340273001		1.485849	1.544601		28	26	27	1	0	28	1	0	0			0	0
	340292002		1.514423	1.540909		29	26	27.5	1	0	29	1	0	0			0	0
	340310005		1.291815	1.257627		33	30	31.5	1	0	33	1	0	0			0	0
	340390004		1.19174	1.189655		36	32	34	1	1	36	0	1	0	Flag		0	1
	340390006		1.123494	1.125373		35	31	33	1	0	35	1	1	1		Flag	0	0
	340392003		1.206557	1.179811		34	30	32	1	0	34	1	0	0			0	0
	340410006		1.168385	1.145215		31	29	30	1	0	31	1	0	0			0	0
	350010023		1.087719	1.086705		17	15	16	1	0	17	1	0	0			0	0
	350010024		1.093333	1.082278		15	16	15.5	1	0	16	1	0	0			0	0
	350050005		1.114286	1.153846		16	15	15.5	1	0	16	1	0	0			0	0
	350130017		1.078689	1.079027		32	35	33.5	1	0	35	1	0	0			0	0
	350130025		1.121951	1.101563		13	14	13.5	1	0	14	1	0	0			0	0
	350431003		1.119565	1.123711		10	10	10	1	0	10	1	0	0			0	0
	350439011		1.04698	1.045161		16	14	15	1	0	16	1	0	0			0	0
	350450006		1.033333	1.032787		14	15	14.5	1	0	15	1	0	0			0	0
	350490020		1.054348	1.0625		9	9	9	1	0	9	1	0	0			0	0
	360010005		1.106796	1.106796		29	27	28	1	0	29	1	0	0			0	0
	360050080		1.158209	1.185841		36	33	34.5	1	1	36	0	1	0	Flag		0	1
	360050083		1.145215	1.135048		34	33	33.5	1	0	34	1	0	0			0	0
	360050110		1.117647	1.10241		34	32	33	1	0	34	1	0	0			0	0
	360130011		1.399038	1.4		26	24	25	1	0	26	1	0	0			0	0
	360290005		1.110063	1.107784		30	29	29.5	1	0	30	1	0	0			0	0
	360291007		1.12	1.08642		30	28	29	1	0	30	1	0	0			0	0
	360310003		1.294798	1.295455		17	14	15.5	1	0	17	1	0	0			0	0
	360470122		1.201954	1.233766		34	30	32	1	0	34	1	0	0			0	0

Daily PM Design Values
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						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 35 AND Avg DV-2012 <=35?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	35 ug/m3	35 ug/m3	Max DV-06-09	35 ug/m3	35 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	360551007		1.175182	1.174377		27	26	26.5	1	0	27	1	0	0			0	0
	360590008		1.338583	1.372549		30	28	29	1	0	30	1	0	0			0	0
	360610056		1.124646	1.127778		37	35	36	0	1	37	0	1	0			1	1
	360610062		1.168675	1.238095		35	35	35	1	1	35	1	1	0	Flag		0	1
	360610079		1.207006	1.207207		35	32	33.5	1	0	35	1	1	1		Flag	0	0
	360610128		1.193939	1.26284		34	31	32.5	1	1	34	1	1	0	Flag		0	1
	360632008		1.178947	1.182456		27	25	26	1	0	27	1	0	0			0	0
	360671015		1.351485	1.34434		24	25	24.5	1	0	25	1	0	0			0	0
	360710002		1.24569	1.235294		28	26	27	1	0	28	1	0	0			0	0
	360810124		1.141479	1.141479		32	30	31	1	0	32	1	0	0			0	0
	360850055		1.183051	1.185897		33	29	31	1	0	33	1	0	0			0	0
	360850067		1.284	1.290196		30	27	28.5	1	0	30	1	0	0			0	0
	360893001		1.188172	1.142132		18	21	19.5	1	0	21	1	0	0			0	0
	361010003		1.383085	1.336493		25	22	23.5	1	0	25	1	0	0			0	0
	361030001		1.447699	1.447699						0			0	0			0	0
	361191002		1.268939	1.275093		32	29	30.5	1	0	32	1	0	0			0	0
	370010002		1.454128	1.445946		28	25	26.5	1	0	28	1	0	0			0	0
	370210034		1.470588	1.424528		27	23	25	1	0	27	1	0	0			0	0
	370330001		1.477387	1.467662		27	23	25	1	0	27	1	0	0			0	0
	370350004		1.493506	1.530172		30	26	28	1	0	30	1	0	0			0	0
	370370004		1.358586	1.336585		26	22	24	1	0	26	1	0	0			0	0
	370510009		1.279167	1.268293		28	24	26	1	0	28	1	0	0			0	0
	370570002		1.36087	1.371795		29	25	27	1	0	29	1	0	0			0	0
	370610002		1.373786	1.37037		24	21	22.5	1	0	24	1	0	0			0	0
	370630001		1.390135	1.422222		30	30	30	1	0	30	1	0	0			0	0
	370650004		1.253521	1.228311		25	22	23.5	1	0	25	1	0	0			0	0
	370670022		1.255906	1.252918		29	25	27	1	0	29	1	0	0			0	0
	370710016		1.532338	1.514706		27	24	25.5	1	0	27	1	0	0			0	0
	370810013		1.307692	1.307692		28	24	26	1	0	28	1	0	0			0	0
	370870010		1.331731	1.34434		29	27	28	1	0	29	1	0	0			0	0
	370990006		1.482558	1.472527		26	23	24.5	1	0	26	1	0	0			0	0
	371070004		1.247525	1.237864		23	21	22	1	0	23	1	0	0			0	0
	371110004		1.465116	1.46789		29	24	26.5	1	0	29	1	0	0			0	0
	371170001		1.203883	1.218605		23	20	21.5	1	0	23	1	0	0			0	0
	371190010		1.307692	1.307692						0			0	0			0	0
	371190041		1.372294	1.377682		29	26	27.5	1	0	29	1	0	0			0	0
	371190042		1.421296	1.408072		27	24	25.5	1	0	27	1	0	0			0	0
	371210001		1.466019	1.436364		27	23	25	1	0	27	1	0	0			0	0
	371230001		1.438776	1.442786		26	22	24	1	0	26	1	0	0			0	0
	371290002		1.371429	1.387978		22	20	21	1	0	22	1	0	0			0	0
	371330005		1.268041	1.267677		24	22	23	1	0	24	1	0	0			0	0
	371350007		1.472362	1.46798		28	26	27	1	0	28	1	0	0			0	0
	371470005		1.201835	1.211712		24	19	21.5	1	0	24	1	0	0			0	0
	371550005		1.430622	1.440758		27	24	25.5	1	0	27	1	0	0			0	0
	371590021		1.378995	1.378995		28	24	26	1	0	28	1	0	0			0	0
	371730002		1.385787	1.360577		27	23	25	1	0	27	1	0	0			0	0
	371830014		1.311203	1.314286		30	26	28	1	0	30	1	0	0			0	0
	371890003		1.55102	1.532663		25	21	23	1	0	25	1	0	0			0	0
	371910005		1.375	1.351111		28	23	25.5	1	0	28	1	0	0			0	0
	380070002		1.048387	1.0625		14	11	12.5	1	0	14	1	0	0			0	0

Daily PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 35 AND Avg DV-2012 <=35?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	35 ug/m3	35 ug/m3	Max DV-06-09	35 ug/m3	35 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	380130003		1.04375	1.04375						0			0	0			0	0
	380150003		1.113924	1.11976		16	15	15.5	1	0	16	1	0	0			0	0
	380171004		1.164835	1.147959		19	19	19	1	0	19	1	0	0			0	0
	380530002		1.0625	1.065574		18				0			0	0			0	0
	380570004		0.994118	0.994444		15	13	14	1	0	15	1	0	0			0	0
	390090003		1.639594	1.619512		32	28	30	1	0	32	1	0	0			0	0
	390170003		1.347079	1.308917		31	30	30.5	1	1	31	1	1	0	Flag		0	1
	390170016		1.329749	1.332155		34	31	32.5	1	1	34	1	1	0	Flag		0	1
	390170017		1.334507	1.334507						1			1	0			1	1
	390171004		1.354015	1.34629		35	36	35.5	0	1	36	0	1	0			1	1
	390230005		1.327068	1.323636		32	31	31.5	1	0	32	1	0	0			0	0
	390250022		1.387097	1.387097		30	26	28	1	0	30	1	0	0			0	0
	390350027		1.140187	1.108571		36	33	34.5	1	0	36	0	1	1			0	1
	390350034		1.220736	1.138138		32	31	31.5	1	0	32	1	1	1		Flag	0	0
	390350038		1.238095	1.230366		38	36	37	0	1	38	0	1	0			1	1
	390350045		1.309524	1.25		33	31	32	1	1	33	1	1	0	Flag		0	1
	390350060		1.15978	1.202632		36	35	35.5	0	1	36	0	1	0			1	1
	390350065		1.278146	1.20944		33	33	33	1	1	33	1	1	0	Flag		0	1
	390351002		1.164983	1.164983		31	29	30	1	0	31	1	0	0			0	0
	390490024		1.19195	1.171091		32	28	30	1	1	32	1	1	0	Flag		0	1
	390490025		1.254902	1.199387		32	30	31	1	1	32	1	1	0	Flag		0	1
	390490081		1.386179	1.386179		30	28	29	1	0	30	1	0	0			0	0
	390570005		1.259542	1.259542		29	28	28.5	1	0	29	1	0	0			0	0
	390610006		1.382353	1.382353		32	29	30.5	1	1	32	1	1	0	Flag		0	1
	390610014		1.503937	1.453875		35	32	33.5	1	1	35	1	1	0	Flag		0	1
	390610040		1.473896	1.496032		31	28	29.5	1	1	31	1	1	0	Flag		0	1
	390610042		1.273038	1.273333		33	30	31.5	1	1	33	1	1	0	Flag		0	1
	390610043		1.286738	1.274648		32	31	31.5	1	1	32	1	1	0	Flag		0	1
	390617001		1.289037	1.241379		33	30	31.5	1	1	33	1	1	0	Flag		0	1
	390618001		1.309677	1.266254		34	32	33	1	1	34	1	1	0	Flag		0	1
	390810017		1.398625	1.390164		37	34	35.5	0	1	37	0	1	0			1	1
	390811001		1.396667	1.366366		34	31	32.5	1	1	34	1	1	0	Flag		0	1
	390851001		1.257627	1.257627		18				0			0	0			0	0
	390870010		1.531818	1.546667		28	26	27	1	0	28	1	0	0			0	0
	390933002		1.285714	1.294355		31	30	30.5	1	0	31	1	0	0			0	0
	390950024		1.134375	1.122093		30	31	30.5	1	0	31	1	1	1		Flag	0	0
	390950025		1.128617	1.132308		31	33	32	1	0	33	1	0	0			0	0
	390950026		1.155629	1.136223		31	29	30	1	0	31	1	1	1		Flag	0	0
	390990005		1.3	1.239583		31	31	31	1	0	31	1	0	0			0	0
	390990014		1.214521	1.197492		32	31	31.5	1	0	32	1	1	1		Flag	0	0
	391130031		1.197987	1.200647		29				0			1	1			0	1
	391130032		1.215434	1.201201		32	31	31.5	1	1	32	1	1	0	Flag		0	1
	391330002		1.324324	1.311787		30	28	29	1	0	30	1	0	0			0	0
	391351001		1.237736	1.274436		29	27	28	1	0	29	1	1	1		Flag	0	0
	391450013		1.547085	1.556034		31	28	29.5	1	0	31	1	0	0			0	0
	391510017		1.29021	1.27027		35	34	34.5	1	0	35	1	1	1		Flag	0	0
	391530017		1.210191	1.157895		34	33	33.5	1	1	34	1	1	0	Flag		0	1
	391530023		1.260563	1.233553		30	28	29	1	0	30	1	1	1		Flag	0	0
	391550007		1.198675	1.17757		31	33	32	1	0	33	1	1	1		Flag	0	0
	400159008		1.219388	1.262136		26	26	26	1	0	26	1	0	0			0	0

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	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	35 ug/m3	35 ug/m3	Max DV-06-09	35 ug/m3	35 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	400219002		1.195652	1.176471		27	30	28.5	1	0	30	1	0	0			0	0
	400710602		1.135714	1.135714						0			0	0			0	0
	400719010		1.143443	1.121951		26	29	27.5	1	0	29	1	0	0			0	0
	400819005		1.22467	1.22467		21				0			0	0			0	0
	400970186		1.129921	1.123552		25	23	24	1	0	25	1	0	0			0	0
	400979014		1.225352	1.228972		25	29	27	1	0	29	1	0	0			0	0
	401010169		1.143411	1.159696		26	26	26	1	0	26	1	0	0			0	0
	401090035		1.141463	1.142857		22	22	22	1	0	22	1	0	0			0	0
	401091037		1.199115	1.179916		24	23	23.5	1	0	24	1	0	0			0	0
	401159004		1.24359	1.208163		24	22	23	1	0	24	1	0	0			0	0
	401210415		1.200913	1.167382		24	24	24	1	0	24	1	0	0			0	0
	401359015		1.17603	1.17603		26	24	25	1	0	26	1	0	0			0	0
	401430110		1.154472	1.154472		26	25	25.5	1	0	26	1	0	0			0	0
	401431127		1.143396	1.111111		26	26	26	1	0	26	1	0	0			0	0
	420010001		1.228873	1.218855		32	29	30.5	1	0	32	1	0	0			0	0
	420030008		1.382456	1.385417		36	32	34	1	1	36	0	1	0	Flag		0	1
	420030021		1.355212	1.355212						0			0	0			0	0
	420030064		1.150538	1.157895		53	50	51.5	0	1	53	0	1	0			1	1
	420030067		1.730233	1.751111		32	30	31	1	0	32	1	0	0			0	0
	420030093		1.452229	1.463068		35	28	31.5	1	1	35	1	1	0	Flag		0	1
	420030095		1.460377	1.398625		35	26	30.5	1	0	35	1	1	1		Flag	0	0
	420030116		1.486014	1.486014						1			1	0			1	1
	420030133		1.613169	1.613169						0			0	0			0	0
	420031008		1.518382	1.53405		37	33	35	1	1	37	0	1	0	Flag		0	1
	420031301		1.33887	1.367742		39	37	38	0	1	39	0	1	0			1	1
	420033007		1.464844	1.517606		35	32	33.5	1	0	35	1	1	1		Flag	0	0
	420039002		1.530364	1.530364						0			0	0			0	0
	420070014		1.446667	1.448052		36	33	34.5	1	1	36	0	1	0	Flag		0	1
	420110011		1.132132	1.136628		34	31	32.5	1	1	34	1	1	0	Flag		0	1
	420170012		1.184669	1.208333		33	31	32	1	0	33	1	0	0			0	0
	420210011		1.523438	1.515385		35	32	33.5	1	1	35	1	1	0	Flag		0	1
	420270100		1.256944	1.283276		32	28	30	1	0	32	1	0	0			0	0
	420290100		1.223333	1.223333		36	34	35	1	0	36	0	0	0			0	0
	420410101		1.151515	1.16185		34	33	33.5	1	1	34	1	1	0	Flag		0	1
	420430401		1.130952	1.111111		36	34	35	1	1	36	0	1	0	Flag		0	1
	420450002		1.226481	1.212838		33	30	31.5	1	0	33	1	0	0			0	0
	420490003		1.170068	1.170068		31	30	30.5	1	0	31	1	0	0			0	0
	420692006		1.240157	1.244275		29	28	28.5	1	0	29	1	0	0			0	0
	420710007		1.133333	1.151832		37	35	36	0	1	37	0	1	0			1	1
	420770004		1.116564	1.116564						0			0	0			0	0
	420791101		1.236641	1.236641						0			0	0			0	0
	420850100		1.222222	1.222222		32	30	31	1	0	32	1	0	0			0	0
	420950025		1.16879	1.179811		36	34	35	1	0	36	0	0	0			0	0
	420990301		1.164751	1.164751						0			0	0			0	0
	421010004		1.15873	1.143302		36	32	34	1	0	36	0	0	0			0	0
	421010024		1.237931	1.237931		33	30	31.5	1	0	33	1	0	0			0	0
	421010047		1.281787	1.277966		36	32	34	1	0	36	0	0	0			0	0
	421250005		1.49789	1.469636		33	32	32.5	1	0	33	1	0	0			0	0
	421250200		1.433476	1.413502		32	30	31	1	0	32	1	0	0			0	0
	421255001		1.465385	1.477778		36	31	33.5	1	0	36	0	1	1			0	1

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						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 35 AND Avg DV-2012 <=35?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	35 ug/m3	35 ug/m3	Max DV-06-09	35 ug/m3	35 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	421290008		1.552301	1.506024		34	34	34	1	0	34	1	0	0			0	0
	421330008		1.164634	1.149718		35	32	33.5	1	1	35	1	1	0	Flag		0	1
	440070022		1.204918	1.204918		27	25	26	1	0	27	1	0	0			0	0
	440070026		1.176923	1.201493		29	26	27.5	1	0	29	1	0	0			0	0
	440070028		1.2103	1.213675		26	24	25	1	0	26	1	0	0			0	0
	440071010		1.185185	1.212245		26	25	25.5	1	0	26	1	0	0			0	0
	450130007		1.404651	1.475113		29	33	31	1	0	33	1	0	0			0	0
	450190048		1.208696	1.212121		24	22	23	1	0	24	1	0	0			0	0
	450190049		1.234513	1.229075		23	22	22.5	1	0	23	1	0	0			0	0
	450250001		1.347418	1.352941		25	22	23.5	1	0	25	1	0	0			0	0
	450370001		1.376068	1.342629		26	24	25	1	0	26	1	0	0			0	0
	450410002		1.315068	1.319635		25	23	24	1	0	25	1	0	0			0	0
	450430009		1.292035	1.271552		30	34	32	1	0	34	1	0	0			0	0
	450450008		1.206767	1.208955		29	26	27.5	1	0	29	1	0	0			0	0
	450450009		1.294821	1.318898		28	25	26.5	1	0	28	1	0	0			0	0
	450470003		1.369863	1.396396		28	29	28.5	1	0	29	1	0	0			0	0
	450510002		1.317972	1.321267		27	28	27.5	1	0	28	1	0	0			0	0
	450630008		1.271318	1.250936		28	25	26.5	1	0	28	1	0	0			0	0
	450730001		1.45641	1.450495		25	21	23	1	0	25	1	0	0			0	0
	450790007		1.326271	1.327801		27	25	26	1	0	27	1	0	0			0	0
	450790019		1.262357	1.251852		28	25	26.5	1	0	28	1	0	0			0	0
	450830010		1.408696	1.408696		29	25	27	1	0	29	1	0	0			0	0
	460110002		1.180905	1.180095		21	22	21.5	1	0	22	1	0	0			0	0
	460130003		1.154321	1.149701		16	18	17	1	0	18	1	0	0			0	0
	460290002		1.15122	1.15942		24	24	24	1	0	24	1	0	0			0	0
	460330132		1.051471	1.051471		14	15	14.5	1	0	15	1	0	0			0	0
	460710001		1.094828	1.098361		13	12	12.5	1	0	13	1	0	0			0	0
	460990006		1.169903	1.175115		26	26	26	1	0	26	1	0	0			0	0
	460990007		1.195	1.195238		22	20	21	1	0	22	1	0	0			0	0
	461030016		1.095541	1.088608		17				0			0	0			0	0
	461030020		1.063218	1.072626		18	16	17	1	0	18	1	0	0			0	0
	461031001		1.089041	1.070968		16	15	15.5	1	0	16	1	0	0			0	0
	470090011		1.444444	1.443038		31	28	29.5	1	0	31	1	0	0			0	0
	470370023		1.413502	1.388664		29	26	27.5	1	0	29	1	1	1		Flag	0	0
	470370025		1.417431	1.387665		32	32	32	1	0	32	1	0	0			0	0
	470370036		1.52093	1.522727		29	25	27	1	0	29	1	0	0			0	0
	470450004		1.405286	1.393305		29	24	26.5	1	0	29	1	0	0			0	0
	470650031		1.286822	1.343511		29	27	28	1	0	29	1	0	0			0	0
	470651011		1.434783	1.40991		27	25	26	1	0	27	1	0	0			0	0
	470654002		1.313725	1.279851		32	28	30	1	0	32	1	0	0			0	0
	470930028		1.402299	1.402299		34	28	31	1	0	34	1	0	0			0	0
	470931017		1.294574	1.313953		31	28	29.5	1	0	31	1	0	0			0	0
	470990002		1.518717	1.538835		30	27	28.5	1	0	30	1	0	0			0	0
	471050108		1.376068	1.381743		31	29	30	1	0	31	1	0	0			0	0
	471071002		1.479452	1.461207		32	28	30	1	0	32	1	0	0			0	0
	471192007		1.473684	1.447489		28	25	26.5	1	0	28	1	0	0			0	0
	471251009		1.354478	1.353791		32	28	30	1	1	32	1	1	0	Flag		0	1
	471410001		1.63	1.63		31				0			0	0			0	0
	471450004		1.398148	1.395556		29	27	28	1	0	29	1	0	0			0	0
	471570014		1.47032	1.401674		28	27	27.5	1	0	28	1	0	0			0	0

Daily PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >	Max DV-2012 base > 35 AND Avg DV-2012 <=35?				
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	35 ug/m3	35 ug/m3	Max DV-06-09	35 ug/m3	35 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	471570038		1.477273	1.413502		28	28	28	1	0	28	1	0	0			0	0
	471570047		1.462882	1.368421		29	27	28	1	0	29	1	0	0			0	0
	471571004		1.497487	1.440758		26	26	26	1	0	26	1	0	0			0	0
	471631007		1.376106	1.373391		30	27	28.5	1	0	30	1	0	0			0	0
	471650007		1.639024	1.533333		29	26	27.5	1	1	29	1	1	0	Flag		0	1
	480370004		1.283843	1.293103		28	24	26	1	0	28	1	0	0			0	0
	481130069		1.132159	1.173729		23	23	23	1	0	23	1	0	0			0	0
	481130087		1.260417	1.238532		22	28	25	1	0	28	1	0	0			0	0
	481350003		1.133758	1.123457		17	18	17.5	1	0	18	1	0	0			0	0
	481410037		1.065116	1.065116		21	19	20	1	0	21	1	0	0			0	0
	482010058		1.209524	1.240566		23	22	22.5	1	0	23	1	0	0			0	0
	482011035		1.144981	1.158672		30	28	29	1	0	30	1	0	0			0	0
	482030002		1.245192	1.230047		23	21	22	1	0	23	1	0	0			0	0
	482150043		1.109244	1.098425		25	22	23.5	1	0	25	1	0	0			0	0
	482450021		1.287129	1.282297		29	26	27.5	1	0	29	1	0	0			0	0
	483550032		1.222222	1.198413		28	26	27	1	0	28	1	0	0			0	0
	483611001		1.294393	1.292793		28	25	26.5	1	0	28	1	0	0			0	0
	484391002		1.176744	1.160173		25	23	24	1	0	25	1	0	0			0	0
	484391006		1.122271	1.116		25	24	24.5	1	0	25	1	0	0			0	0
	500010002		1.220779	1.220779		21				0			0	0			0	0
	500010003		1.238281	1.238281		34				0			0	0			0	0
	500030004		1.19457	1.1875		23	22	22.5	1	0	23	1	0	0			0	0
	500070012		1.336323	1.273109		26	23	24.5	1	0	26	1	0	0			0	0
	500070014		1.162162	1.162162		29				0			0	0			0	0
	500210002		1.096774	1.117857		28	29	28.5	1	0	29	1	0	0			0	0
	510130020		1.231047	1.190164		30	27	28.5	1	0	30	1	0	0			0	0
	510360002		1.440909	1.439462		29	24	26.5	1	0	29	1	0	0			0	0
	510410003		1.478673	1.468468		28	24	26	1	0	28	1	0	0			0	0
	510590030		1.293233	1.277372		31	28	29.5	1	0	31	1	0	0			0	0
	510591005		1.306202	1.201365		28	24	26	1	0	28	1	0	0			0	0
	510595001		1.228782	1.225455		30	26	28	1	0	30	1	0	0			0	0
	510870014		1.456621	1.449339		29	26	27.5	1	0	29	1	0	0			0	0
	510870015		1.484694	1.443902		27	24	25.5	1	0	27	1	0	0			0	0
	511071005		1.387097	1.362595		29	25	27	1	0	29	1	0	0			0	0
	511390004		1.470588	1.391892		28	25	26.5	1	0	28	1	0	0			0	0
	515200006		1.473171	1.480583		28	25	26.5	1	0	28	1	0	0			0	0
	516500004		1.26087	1.201646		29	25	27	1	0	29	1	0	0			0	0
	516800015		1.574359	1.562814		28	25	26.5	1	0	28	1	0	0			0	0
	517100024		1.248945	1.245833		30	25	27.5	1	0	30	1	0	0			0	0
	517700014		1.397436	1.360656		30	30	30	1	0	30	1	0	0			0	0
	517750010		1.399177	1.399177		22				0			0	0			0	0
	518100008		1.22449	1.232653		33	29	31	1	0	33	1	0	0			0	0
	540030003		1.177474	1.193333		31	29	30	1	0	31	1	0	0			0	0
	540090005		1.363322	1.356209		37	34	35.5	0	0	37	0	1	1			0	1
	540090011		1.206044	1.210243		41	37	39	0	1	41	0	1	0			1	1
	540110006		1.506438	1.487805		32	30	31	1	0	32	1	0	0			0	0
	540291004		1.561538	1.548872		38	35	36.5	0	0	38	0	0	0			0	0
	540330003		1.658416	1.687805		31	26	28.5	1	0	31	1	0	0			0	0
	540390010		1.563063	1.550218		34	29	31.5	1	0	34	1	0	0			0	0
	540390011		1.539535	1.539535		28	24	26	1	0	28	1	0	0			0	0

Daily PM Design Values
Impacts of Updated Design Values on Determinations of Contributions to Nonattainment and Maintenance in the Proposed EPA Transport Rule

														Max DV-2012 base > 35 AND Avg DV-2012 <=35?				
						Updated DVs			Avg DV-06-09 <=	Avg DV-2012 base >		Max DV-06-09 <=	Max DV-2012 base >					
	Monitor ID		**Avg DV-2014 remedy**	**Max DV-2014 remedy**		DV 06-08	DV 07-09	Avg DV-06-09	35 ug/m3	35 ug/m3	Max DV-06-09	35 ug/m3	35 ug/m3		Flag (Avg)	Flag (Max)	Add'l 2012 NA Sites	Add'l 2012 Maint Sites
	540391005		1.506122	1.478431		36	32	34	1	0	36	0	1	1			0	1
	540490006		1.671642	1.668317		32	28	30	1	0	32	1	0	0			0	0
	540511002		1.480349	1.456067		34	31	32.5	1	0	34	1	0	0			0	0
	540610003		1.745098	1.707547		34	30	32	1	0	34	1	0	0			0	0
	540690010		1.333333	1.333333		31	29	30	1	0	31	1	0	0			0	0
	540810002		1.561224	1.572864		28	24	26	1	0	28	1	0	0			0	0
	540890001		1.625	1.625						0			0	0			0	0
	541071002		1.53913	1.568376		34	31	32.5	1	0	34	1	0	0			0	0
	550030010		1.231788	1.25		19	18	18.5	1	0	19	1	0	0			0	0
	550090005		1.057971	1.063218		35	35	35	1	0	35	1	1	1		Flag	0	0
	550090009		1.046784	1.046784		33				0			0	0			0	0
	550250047		1.119874	1.121581		34	34	34	1	1	34	1	1	0	Flag		0	1
	550270007		1.111888	1.114478		27	29	28	1	0	29	1	0	0			0	0
	550410007		1.183099	1.183099		21	17	19	1	0	21	1	0	0			0	0
	550430009		1.117264	1.11465		34	35	34.5	1	0	35	1	0	0			0	0
	550590019		1.093645	1.096774		31	32	31.5	1	0	32	1	0	0			0	0
	550710007		1.072202	1.078498		28	29	28.5	1	0	29	1	0	0			0	0
	550790010		1.063361	1.066667		36	36	36	0	1	36	0	1	0			1	1
	550790026		1.084302	1.078329		37	35	36	0	1	37	0	1	0			1	1
	550790043		1.099174	1.082228		36	36	36	0	1	36	0	1	0			1	1
	550790059		1.123418	1.107784		32	34	33	1	0	34	1	1	1		Flag	0	0
	550790099		1.132132	1.077994		36	37	36.5	0	1	37	0	1	0			1	1
	550870009		1.068404	1.065015		32	34	33	1	0	34	1	0	0			0	0
	550890009		1.083333	1.075949		30	31	30.5	1	0	31	1	0	0			0	0
	551091002		1.122363	1.122363		25	28	26.5	1	0	28	1	0	0			0	0
	551110007		1.087452	1.074627		26	30	28	1	0	30	1	0	0			0	0
	551198001		1.114537	1.125541		29	29	29	1	0	29	1	0	0			0	0
	551250001		1.177083	1.19		29	29	29	1	0	29	1	0	0			0	0
	551330027		1.120253	1.138365		31	32	31.5	1	0	32	1	1	1		Flag	0	0
	560050877		1.039106	1.039106		17	15	16	1	0	17	1	0	0			0	0
	560050892		1.016807	1.016667		15	14	14.5	1	0	15	1	0	0			0	0
	560050899		1.016	1.015038		15	16	15.5	1	0	16	1	0	0			0	0
	560090819		1.030928	1.029412		11	9	10	1	0	11	1	0	0			0	0
	560131003		1.060498	1.052805		24	28	26	1	0	28	1	0	0			0	0
	560210001		1.053097	1.058333		11	9	10	1	0	11	1	0	0			0	0
	560330002		1.040541	1.048387		25	24	24.5	1	0	25	1	0	0			0	0
					Counts:	34	11	20	656	103	37	639	147	44	83	37	20	110
						>35.0	>35.0	>35.0	20		>35.0							
											17							