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Equating Semi-Continuous (SC) $PM_{2.5}$ Mass Monitor Measurement Values with Federal Reference Method (FRM) $PM_{2.5}$ Monitor Measurement Values

Final Report

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Final Report

by

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Notice

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Executive Summary

The effects of fine particulate matter ($PM_{2.5}$) on human health are well documented (Pope et al., 2002). In order to spatially and temporally assess the impact of $PM_{2.5}$ on the U.S. population, the U.S. Environmental Protection Agency (U.S. EPA) operates a network of Federal Reference Method (FRM) air quality monitors which measure ambient $PM_{2.5}$ concentration in locations that are important due to the need to track compliance with the National Ambient Air Quality Standards (NAAQS) mandated concentration levels in geographic regions of interest and to assess exposures of local populations where the monitors are located. When scientists attempt to correlate ambient concentration levels of $PM_{2.5}$ to documented health outcomes, in most cases, they are forced to use the $PM_{2.5}$ concentration measurement values from the monitor(s) closest to the study area as a surrogate for measuring ambient $PM_{2.5}$ concentration at (or nearer to) the actual location of the study population(s).

Due to prohibitive cost, land-use concerns, and EPA's current strategy for locating air quality monitors, it is not practical to place $PM_{2.5}$ FRM monitors more closely to improve measurement of ambient $PM_{2.5}$ concentration for health studies. The standard FRM monitors used to determine the ambient concentration of PM2.5 are filter-based, and the schedule for filter collections is either once every three days (1-in-3) or once every six days (1-in-6). The $PM_{2.5}$ particles collected on the filters are weighed and the daily concentration of $PM_{2.5}$ determined for each monitor/site (Noble et al., 2001). A number of technologies/methodologies have been developed for Federal Equivalent Method (FEM) monitors, which measure $PM_{2.5}$ particles in a continuous/semi-continuous (non-filter based) manner and provide ambient concentration measurements of $PM_{2.5}$ on an hourly basis (Noble et al., 2001).

An increasing number of semi-continuous (SC)/FEM monitors have been deployed each year in the U.S. by EPA to improve the extent of spatial and temporal coverage for ambient $PM_{2.5}$ concentration measurements. Since a number of the FEM monitors are (and will be) located in areas where FRM monitors used to measure $PM_{2.5}$ currently exist, a standard protocol for correlating $PM_{2.5}$ measurements from FEM monitors with $PM_{2.5}$ measurements from FRM monitors (used to make determinations of NAAQS compliance) must be developed to allow health researchers to measure/report ambient $PM_{2.5}$ concentration levels linked to health outcomes in a consistent manner to allow more relevant comparisons between health studies. Also, developing a standard methodological approach for correlating $PM_{2.5}$ measurements from FEM monitors with those from FRM monitors accounting for effect of regional differences, state differences, seasonal differences, equipment/method differences, year, etc., facilitates meaningful comparisons between measurement values and monitor behavior. The purpose of the research report is to provide a well-documented methodology/protocol that can be implemented to correlate FRM and FEM ambient concentration measurements from $PM_{2.5}$ monitors. This report serves as a starting point for future research activity in this area.

Introduction

There have been a number of previous research projects focused on correlating FRM and FEM monitor measurements for $PM_{2.5}$, and some of these efforts are summarized in Table 1 below.

Table 1. Comparison of Previous Correlations Between $PM_{2.5}$ FEM and FRM Monitors

Authors	FEM Method	Geographic Area	Collocated FRM Monitor	Correlation Type	General Characterization of Statistical 'Fit'	Key Factors
Rizzo et al.	TEOM	EPA Region 5 (Illinois, Michigan, Wisconsin), Minnesota, and NY state	Yes	Linear	TEOM underestimates FRM (temperature-dependent)	Temperature
Kashuba et al.	TEOM, BAM, nephelometer	EPA Region 5	Yes	Linear, non-linear	TEOM (R^2 range: 0.79 - 0.93); Beta Gauge (R^2 range: 0.85 - 0.93); nephelometer (R^2 range: 0.30 - 0.95)	Temperature, season, humidity
Sioutas et al.	TEOM	Eastern U.S., California, Mexico	Yes	Linear	Good: East Coast (urban) in summer – winter TEOM underestimated FRM	Season, semi-volatile component of PM
Schwab et al.	TEOM, FDMS, BAM	NY state (NYC-Queens, Addison)	Yes	Linear	FDMS, BAM measurements are 25% higher than FRM	Season, bias, mass difference, volatile component of PM

While previous correlation studies have been confined to limited geographic regions and a single calendar year or perhaps two calendar years, this report is different in both scope and extent since it documents a correlation methodology/protocol that is applied to the entire continental United States and covers four years, 2004, 2005, 2006, and 2007 (**Note:** There was only one monitoring site outside of the continental United States where FRM and FEM/SC monitors (parameter code 88501 – $PM_{2.5}$ raw data) were collocated [Alaska]; therefore, only sites in the continental Unites States were used in this analysis. Table 5 indicates the geographic regions/divisions used for this analysis.). This correlation approached developed in this report

was based on the methodology documented in the following EPA documents: 1) Data Quality Objectives (DQOs) for Relating Federal Reference Method (FRM) and Continuous $PM_{2.5}$ Measurements to report on Air Quality Index (AQI), EPA-454/B-02-002, November 2002, and; 2) Technical Note on Reporting $PM_{2.5}$ Continuous Monitoring and Speciation Data to the Air Quality System (AQS), 6/01/2006, U.S. Environmental Protection Agency.

This research effort was funded by the Centers for Disease Control and Prevention (CDC) through an interagency agreement **(CDC Designation:** 07FED713960/**EPA Designation:** RW-75-92261501-03**)** with EPA. The findings in this research effort support CDC's National Environmental Public Health Tracking (EPHT) Network. The CDC's National Environmental Public Health Tracking (EPHT) Network was created to collect information on different health conditions not caused by infectious diseases. Air pollution is not an infectious disease, but it can have a major impact on health conditions such as asthma and heart ailments. The EPA collaborated with CDC and state public health agencies in New York, Maine, and Wisconsin from 2004 through 2006 on the Public Health Air Surveillance Evaluation (PHASE) research project to study the impact of air pollution on asthma and heart disease. The air pollutants studied in PHASE were ozone [O_3] and fine particles [$PM_{2.5}$] from traffic and manufacturing facilities.

EPA's current research project with CDC, based on the PHASE program, provides data from its Air Quality System (AQS) air pollution monitors around the U.S. and information from its air pollution computer model, Community Multiscale Air Quality (CMAQ). The data for ozone and fine particles from the monitors and CMAQ is used by CDC's EPHT network to allow public health agencies and researchers to track their effect on asthma and heart ailments. During the PHASE project, EPA developed a hierarchical Bayesian computer model which combines the data from its air pollution monitors and its air pollution computer model to help public health researchers determine the amount of ozone and fine particle air pollution anywhere in the U.S., even in places where there are no air pollution monitors. Public health researchers and agencies in 23 states provide public health information on hospitalizations from asthma and heart ailments to CDC's EPHT network. EPA uses this data to inform decision makers on the effectiveness of our current health-based air pollution standards. Public health agencies use this data to advise the public on actions they can take to reduce the impact of air pollution on asthma and heart ailments. As we continue to improve our understanding of how the environment affects human health, we can work to reduce risks to the public through enhanced environmental regulations and public health programs.

CDC's EPHT Network will allow public health agencies and researchers to identify, access, and organize hazard, exposure, and health information from a variety of sources and to examine, analyze, and interpret the data based on location and when the data was collected. CDC makes this data available to interested local, state, and federal agencies through written agreements to ensure that access to the data is carefully controlled and is in compliance with federal and state privacy laws addressing the use of health data and other protected personal information. Some of the organizations that will have access to the data include state, and local health and environmental agencies; non-governmental organizations (NGOs); state public health and environmental laboratories; and schools of public health.

It is not the intent of this document to mandate use of the correlation protocol/methodology developed in this research report to equate FEM-measured ambient $PM_{2.5}$ concentration values with FRM concentration values for regulatory reporting requirements (e.g., NAAQS compliance determination). The purpose of this report is to present a correlation methodology that can be applied on a nationwide extent over an extended number of years (i.e., 2004, 2005, 2006, and 2007). This report provides a summary of the observed level of agreement in each parameter code category for $PM_{2.5}$ between FEM and FRM measurement values. It can serve as a tool for researchers who who use central site FEM/SC monitors in health studies to assist them in 'equating' their SC monitor readings to FRM readings. This report attemps to provide the foundation for further development of a comprehensive, systematic approach for correlating FEM/SC ambient $PM_{2.5}$ measurements to FRM ambient $PM_{2.5}$ measurements irrespective of location, region, season, year, or instrument type/methodology. The important driving force behind this research effort is to determine if semi-continuous monitors for $PM_{2.5}$ can be used to supplement FRM monitor data from AQS in the context of CDC's EPHT Network. This would provide enhanced spatial coverage for $PM_{2.5}$ measurements and should improve the linkages (e.g., concentration-response functions) between ambient concentrations of $PM_{2.5}$ and health outcomes such as respiratory and cardiovascular disease. This methodology will be incorporated into EPA's hierarchical Bayesian model to provide enhanced spatial coverage for $PM_{2.5}$ measurements and to allow health researchers using semi-continuous $PM_{2.5}$ monitors for health studies to correlate their measurements with FRM monitors.

Methods

A. Data Collection

To determine the relationship between $PM_{2.5}$ measurements obtained from Federal Reference Method (FRM) monitors to measurement data collected by more recently developed semi-continuous (SC) monitors, data sets were downloaded from the U.S. Environmental Protection Agency's (EPA) Air Quality System (AQS) database. The $PM_{2.5}$ monitor measurement data from EPA's AQS database can be obtained from the following Web site: http://www.epa.gov/ttn/airs/airsaqs/ detaildata/downloadaqsdata.htm. There were three types of SC data used in this analysis: acceptable, atmospheric, and raw. SC data is obtained from Federal Equivalent Method (FEM) or Alternate Reference Method (ARM) monitors. The data type designations are based on the AQS descriptions. Table 2 is excerpted from AQS documentation and indicates the AQS parameter names, codes and descriptions.

Table 2. AQS Description of $PM_{2.5}$ FRM and SC Data

Parameter name	Parameter code	Description	Notes
$PM_{2.5}$ Local Conditions	88101	**$PM_{2.5}$ Local Conditions Data:** Data collected from FRM/FEM/ARM monitors that are comparable to NAAQS requirements and can be used for determination of NAAQS compliance – Appropriate code for all FRM/FEM/ARMs	Original parameter code for $PM_{2.5}$ at local conditions
$PM_{2.5}$ Total Atmospheric (ATM)	88500	**$PM_{2.5}$ Total Atmospheric Data:** Valid data from methods that measure total $PM_{2.5}$ aerosols in the atmosphere – includes aerosols that can be volatilized from the FRM filters	Introduced in 2005
$PM_{2.5}$ Raw Data	88501	**$PM_{2.5}$ Raw Data:** Valid uncorrected (raw) data that does not reasonably match the FRM results	Introduced in 2005
Acceptable $PM_{2.5}$ AQI and Speciation Mass (ACC)	88502	**Acceptable $PM_{2.5}$ AQI and Speciation Mass Data:** Valid data that has been determined to be "FRM-like" – data matches FRM results (with or without correction), but is not to be used in NAAQS compliance determinations/decisions	Introduced in 2006
$PM_{2.5}$ Volatile Channel	88503	**$PM_{2.5}$ Volatile Channel Data:** Stores important data such as the Filter Dynamics Measurement System (FDMS) reference channel (for TEOM)	Introduced in 2006

Data were extracted for the years 2004-2007, inclusive. The FRM data were reported on a daily basis, while the SC data were generally provided as hourly measurements. However, some SC data were reported as daily values. The SC daily data was not included in this analysis. Appendix A presents an exhaustive list of all FRM monitoring site location/method combinations by year. Also included are state, county, latitude, and longitude information. Similar listings appear in Appendices B and C for the SC sites and collocated FRM/SC sites, respectively. However, these listings are also grouped by the SC data types (acceptable, atmospheric, and raw). For completeness, the tables in the appendices list all monitor sites.

However, only sites in the lower 48 states and the District of Columbia were utilized for this analysis.

Occasionally, more than one FRM value was reported on the same day at some sites. These numbers were averaged. The hourly SC concentrations were averaged to obtain a daily mean. Days for which less than 18 hours of SC data were available were not included in the analysis. Beyond these procedures, no adjustments were made to the reported data. To conduct the analysis, FRM and SC data were matched by site and date. Hence, only FRM and SC data concurrent in time and place were used. Separate analyses were done for the acceptable, atmospheric, and raw data types. No substitutions were made for any missing data points, and thus, days for which either the FRM or SC value was missing were excluded.

The objective of the analysis was to develop a predictive equation to equate SC monitor values with FRM monitor values. Several factors were examined for their role in determining the relationship between SC and FRM measurements. These factors were: the SC method, region of the country, the state within the region, and the season. For each of the data types, AQS reports several methods used to collect the SC data. For this analysis, the methods are designated explicitly as they are recorded in AQS. In relatively few instances, AQS truncates the length of the method description. In such cases, the truncated method description and other ancillary information were examined. When it could be determined from context, these truncated descriptions were assigned to one of the other existing full descriptions. When a reasonable determination of the actual method could not be made, the truncated method description was retained as its own "method." Table 3 indicates the outcomes of this process.

Table 3. Outcome of Reassignment of AQS Truncated Method Descriptions

$PM_{2.5}$ SCC w/Correction Factor-TEOM Gravimetric 3	→	$PM_{2.5}$ SCC w/Correction Factor-TEOM Gravimetric 30 deg C
$PM_{2.5}$ SCC w/Correction Factor-TEOM Gravimetric 5	→	$PM_{2.5}$ SCC w/Correction Factor-TEOM Gravimetric 50 deg C
$PM_{2.5}$ SSI w/Correction Factor-TEOM Gravimetric 3	→	$PM_{2.5}$ SSI w/Correction Factor-TEOM Gravimetric 30 deg C
$PM_{2.5}$ SSI w/Correction Factor-TEOM Gravimetric 5	→	$PM_{2.5}$ SSI w/Correction Factor-TEOM Gravimetric 50 deg C
$PM_{2.5}$ SSI w/No Correction Factor-TEOM Gravimetri	→	$PM_{2.5}$ SSI w/No Correction Factor-TEOM Gravimetric 50 deg C
$PM_{2.5}$ WINS w/No Correction Factor-TEOM Gravimetric	→	$PM_{2.5}$ WINS w/No Correction Factor-TEOM Gravimetric 30 deg C
$PM_{2.5}$ SCC w/No Correction Factor-TEOM Gravimetri*	→	$PM_{2.5}$ SCC w/No Correction Factor-TEOM Gravimetric 30, 40, or 50 deg C

$PM_{2.5}$ VSCC w/No Correction Factor-TEOM Gravimetr	→	$PM_{2.5}$ VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C
$PM_{2.5}$ VSCC w/Correction Factor-TEOM Gravimetric*	→	---

***A definitive assignment could not always be made. This method description was left unaltered in these instances.**

Table 4 provides a list of acronym definitions that may be utilized in interpreting the method names and terminology used in this document.

Table 4. Acronyms

Acronym	Meaning
ACC	Acceptable
AQS	Air Quality System
ARM	Alternate Reference Method
ATM	Atmosphere/Atmospheric
BAM	Beta Attenuation Monitor
CDF	Cumulative Distribution Function
FEM	Federal Equivalent Method
FDMS	Filter Dynamic Measurement System
FRM	Federal Reference Method
GLM	Generalized Linear Model
INT	Intercept
NAAQS	National Ambient Air Quality Standards
SC	Semi-Continuous
SCC	Sharp Cut Cyclone
SCM	Semi-Continuous Monitor
SLP	Slope
SSI	Size Selective Inlet
TEOM	Tapered Element Oscillating Microbalance
VSCC	Very Sharp Cut Cyclone
WINS	Well-Impactor Ninety-Six

While some of the method definitions contain the phrase "w/Correction Factor," AQS does not provide any information on the method used to correct the data. Although, the explanation of the "raw" data type suggests that no corrected data occurs here, some of the methods encountered within this data type indicate that a correction was applied. Again, no data were altered, nor were these data transformed from the raw data type.

For this analysis, the continental United States was divided into six different geographic regions. (**Note:** AQS contained only one collocated FRM-SC site outside the continental United States. This was in Alaska, for the raw data type. Table 5 indicates the geographic regions/divisions used for this analysis.)

Table 5. Composition of Geographic Regions

Region	States
Northeast	CT, DC, DE, IN, MA, MD, ME, MI, NH, NJ, NY,OH, PA, RI, VT, WV
Southeast	AL, FL, GA, KY, NC, SC, TN, VA
North central	IA, IL, KS, MN, MO, ND, NE, SD, WI
South central	AR, LA, MS, OK, TX
Northwest	ID, MT, OR, WA, WY
Southwest	AZ, CA, CO, NM, NV, UT

The other component of the predictive equations was the season of the year. The seasons were defined as follows: Winter – December, January, February; Spring – March, April, May; Summer – June, July, August; Autumn – September, October, November. Appendix D provides tabulations of summary statistics for both the FRM and SC data for each method, region, state, and season for the 'acceptable' data type. Similar tables are provided in Appendices E and F for the atmospheric and raw data types, respectively. Appendix G provides the SAS code listings used in this analysis along with guidance on their use.

B. Statistical Model

The basic form of the predictive equation was a simple straight line:

$$\mathbf{Y = m \cdot X + b}$$

where Y represents the FRM value, X is the daily SC mean, m is the slope, and b is the intercept. However, as noted above, the effects of the other variables on this basic equation were investigated. The estimation of the relationship was conducted as a regression with the SC mean being the only continuous predictor variable and method, with region, state within the region, and season being incorporated as categorical predictors. Each of the categorical variables was allowed to adjust both the slope and intercept estimates, i.e., the heterogeneity of slopes model was implemented. The SAS procedure GLM was utilized to estimate the parameters. All statistical coding was done in SAS (SAS 2004a, b). All references to statistical significance (or lack thereof) refer to significance at the 5% level.

Results

A. Consideration of Autocorrelation

Since some sites collected data on consecutive days, the question of autocorrelation in the data was investigated before conducting the regressions. For this purpose, the data at each site were chronologically ordered and the 'lag one' autocorrelation calculated at each site. For the acceptable data type, 3 of 235 sites (representing approximately 5% of all daily values) exhibited an autocorrelation of 80% or more and, including the 3 sites greater than 80%, only 9 sites (~12% of the data points) had an autocorrelation of 70% or higher. For the atmospheric data, no sites had an autocorrelation as high as 80% and 1 of 83 sites had an autocorrelation as high as 70% (~5% of the data). The corresponding numbers for the raw data were: 6 of 260 sites at 80% or more (~7% of the data) and 13 sites at 70% or above (~14% of the data). Given these relatively small fractions of data with autocorrelation as high as 70%, the decision was made to ignore autocorrelation in conducting the analyses. Since the regressions were done over all sites, the minor autocorrelation noted above would have a negligible effect on the results for all three data types.

B. Acceptable Data Type Results

The data from semi-continuous monitors was collected from 2004 – 2007. For the acceptable data type, there were 77,385 days of collocated FRM/SC data. As Appendix D reports, these observations were generally well-distributed within the various categorical variable's levels. Three method types had more than 11,800 observations. With 57 observations, the least frequent method type was the "indeterminate" $PM_{2.5}$ VSCC w/Correction Factor-TEOM Gravimetric. However, most other methods had hundreds or thousands of days of data. The states of Iowa, Kansas, Oklahoma, and Wisconsin all had fewer than 100 observations, but all other states had well over 100, with most states having thousands of data points. At least 6,900 observations were available for each of the levels of region of the country and season.

The results of the analysis for the 77,385 days of collocated FRM/SC data for the acceptable data type were quite good. The intercept was not found to be statistically different from 0, and the final model was estimated without an intercept term. The R^2 value from the regression was 90%. Diagnostic checking of the regression was conducted by both residual analysis and cross-validation. Examination of the residuals showed general agreement with the basic statistical assumptions of the method. No overall pattern was observed. The residuals were symmetric about zero (0), though somewhat more 'spiked' than a normal distribution. While this might potentially be a concern with respect to a lack of power in detecting whether a model parameter was statistically significant, the large number of samples would be expected to considerably mitigate this. Cross-validation also suggested no problem with the regression, with the standardized prediction residuals having a mean of 0 and root mean square error of 1. Both the usual residual analysis and cross-validation revealed some residuals, both positive and negative, which were quite large; however, these constituted a relatively small percentage. The regression yielded predicted values that were within 7.46 $\mu g/m^3$ of the measured FRM value over

98% of the time; more than 90% of the time, the predictions agreed to within 3.66 μg/m^3 of the measured level.

Figure 1 presents the observed FRM values and the predicted $PM_{2.5}$ values in side-by-side histograms. Figure 2 provides the same display, but with the data divided by region of the country. Figure 3 plots cumulative distribution functions (CDFs) for the FRM data in black and the predicted values (from semi-continuous monitor) in red. Examination of these figures indicates very good agreement between observed FRM values and the predictions based on the SC daily averages when viewed over the entire range of observed values. Table 6 reports the results from the regression for the acceptable data type. The estimates for the basic underlying model are 0 for the intercept (as noted above) and 0.90 for the slope. The slope is significantly different from 1. As observed in the table, the basic intercept and slope estimates are adjusted by almost all levels of each of the categorical variables – method, region, state, and season. A value of 0 in the table indicates a parameter that was not statistically significantly different from 0; any nonzero value is significantly different from 0. (The number of statistically significant results reported in Table 6 suggests that the spiked distribution did not adversely affect the statistical power.)

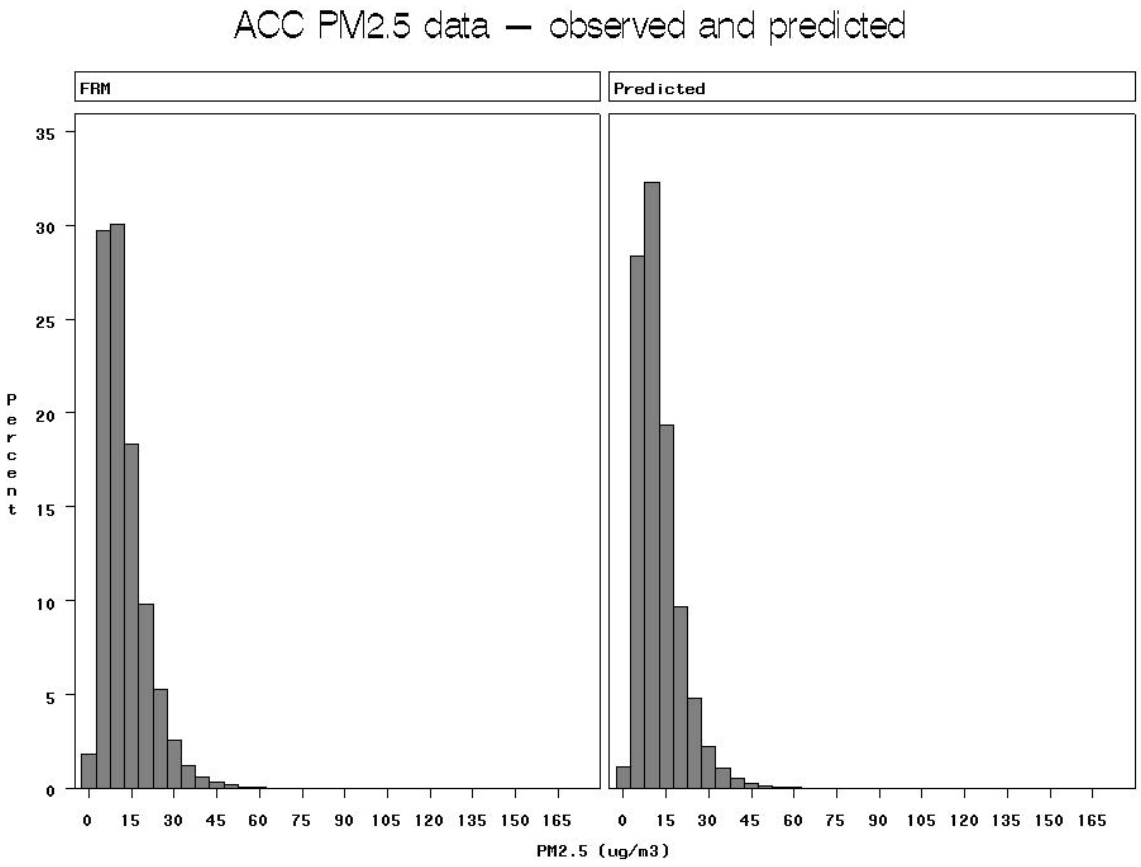

Figure 1. Overall Acceptable Combined Histogram

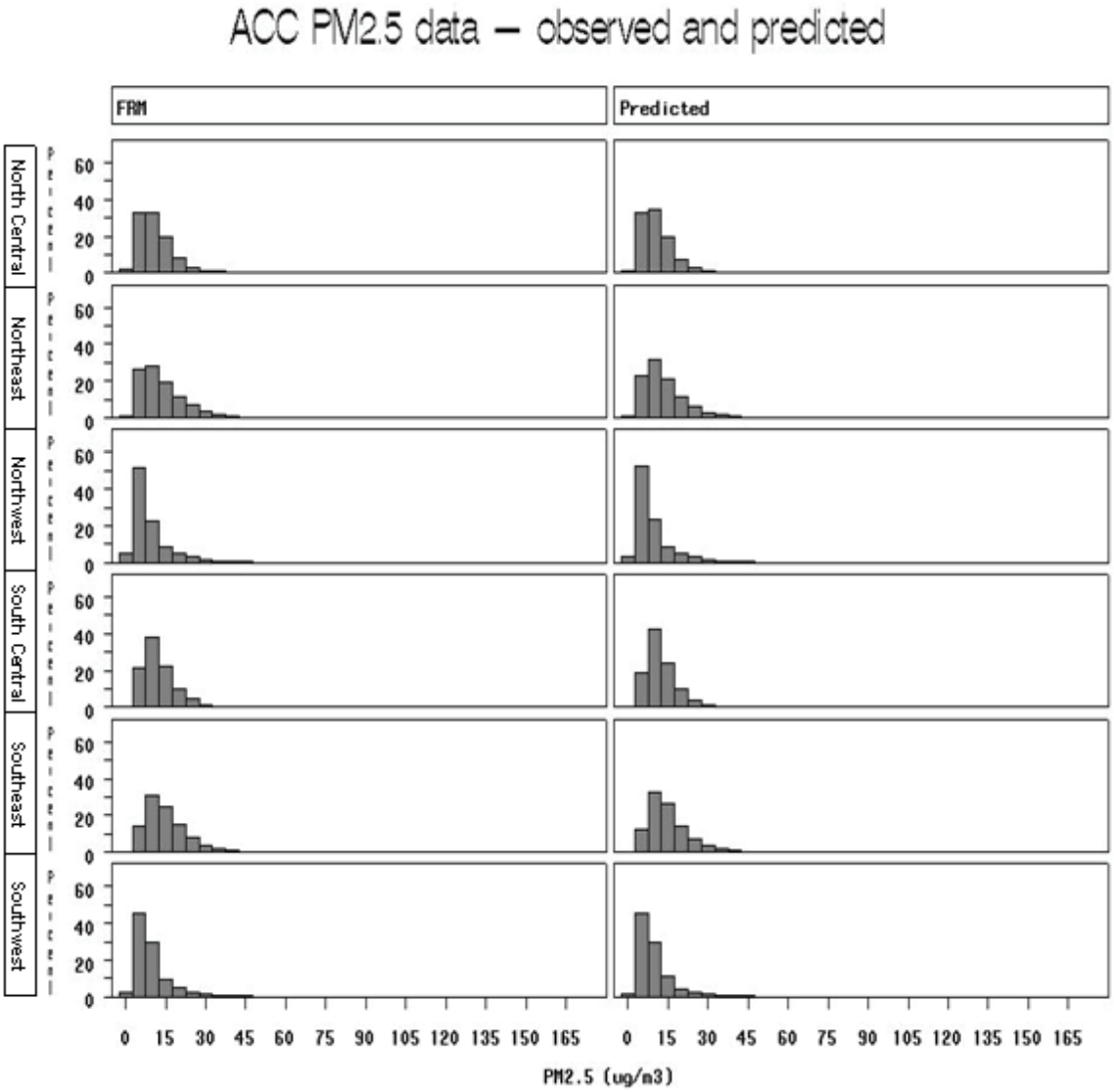

Figure 2. Regional Acceptable Combined Histogram

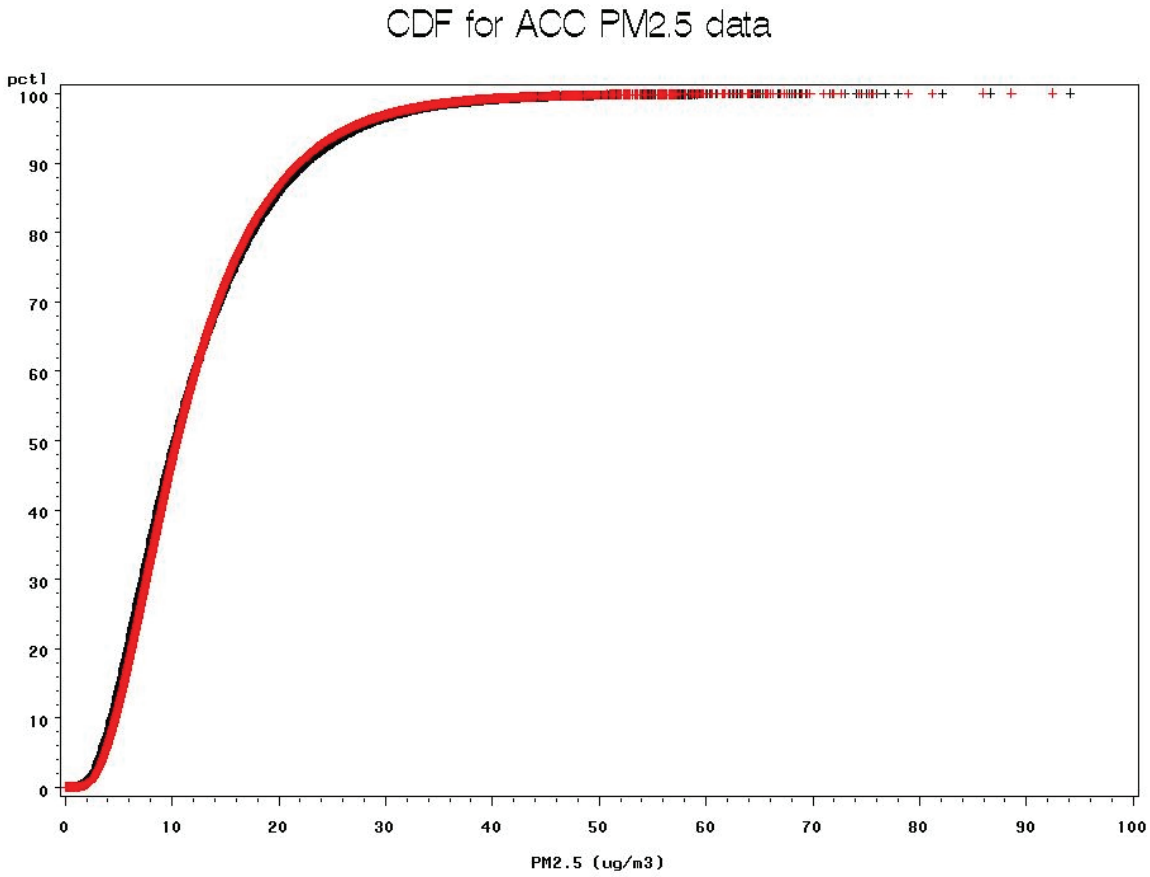

Figure 3. Overall Acceptable Combined CDF (black: FRM, red: predicted)

The base model presented in Table 6 and Figure 4 for the acceptable data type describes the overall relationship between the measured SC values and the predicted FRM values, without taking into account any further information regarding method, location, or season. The estimated base model for the acceptable SC data does not indicate any general bias of the SC values over the FRM, since the intercept is 0. On the other hand, since the slope is estimated as below 1.0 at 0.90, the SC values do not appear to increase quite rapidly enough relative to FRM measurements, as $PM_{2.5}$ levels increase. Thus, the base model will consistently underestimate the FRM values, as Figure 4 shows. **Note:** SCM indicates the concentration value measured by a semi-continuous monitor.

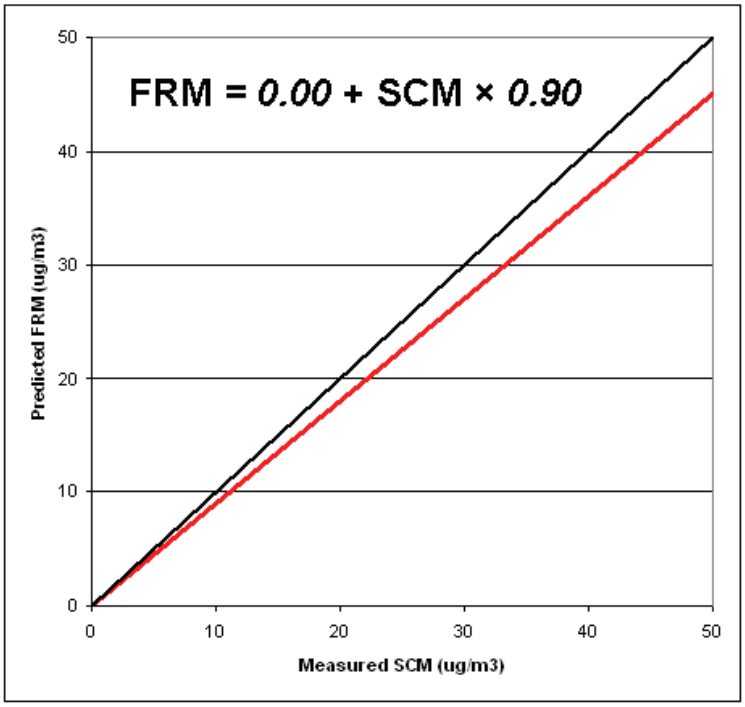

Figure 4. Base Model FRM Regression for Acceptable Data (black: 1:1 line; red: predicted from base model)

Table 6. FRM Regression for Acceptable Data: Intercept, Slope, and Adjustment Estimates

		Intercept	Slope
Base Model	**FRM = *INT* + SCM × *SLP***	**0.00**	**+0.90**
Adjustments			
		INT	***SLP***
Method			
Andersen BAM w/ $PM_{2.5}$ VSCC-Beta Attenuation		0	0
Correlated Radiance Research M903-Nephelometry		+1.73	-0.24
Met-One BAM w/ PM SCC-Beta Attenuation		0	0
Met-One BAM w/ PM VSCC-Beta Attenuation		-3.07	-1.17
$PM_{2.5}$ SCC w/ Correction Factor – TEOM Gravimetric 30 deg C		0	0
$PM_{2.5}$ SCC w/ Correction Factor – TEOM Gravimetric 50 deg C		-1.49	0
$PM_{2.5}$ SCC w/ No Correction factor – TEOM Gravimetric 30 deg C		0	-0.12
$PM_{2.5}$ SCC w/ No Correction factor – TEOM Gravimetric 50 deg C		-1.52	+0.07

$PM_{2.5}$ SCC-FDMS-Gravimetric	0	0
$PM_{2.5}$ SSI w/ Correction Factor – TEOM Gravimetric 30 deg C	-1.20	0
$PM_{2.5}$ SSI w/ Correction Factor – TEOM Gravimetric 50 deg C	0	-0.16
$PM_{2.5}$ SSI w/ No Correction Factor – TEOM Gravimetric 50 deg C	-0.67	-0.12
$PM_{2.5}$ VSCC w/ Correction Factor – TEOM Gravimetric	0	-0.23
$PM_{2.5}$ VSCC w/ Correction Factor – TEOM Gravimetric 30 deg C	+1.40	-0.24
$PM_{2.5}$ VSCC w/ Correction Factor – TEOM Gravimetric 50 deg C	-1.39	0
$PM_{2.5}$ VSCC w/ No Correction Factor – TEOM Gravimetric 30 deg C	0	-0.14
$PM_{2.5}$ VSCC-FDMS-Gravimetric	-1.89	-0.30
$PM_{2.5}$ WINS w/ Correction Factor – TEOM Gravimetric 30 deg C	-1.20	+0.10
$PM_{2.5}$ WINS w/ No Correction Factor – TEOM Gravimetric 30 deg C	0	0
Region		
North Central	+2.57	+1.20
Northeast	-0.82	+0.21
Northwest	-1.30	+0.35
South Central	+1.86	+0.20
Southeast	+1.36	+0.09
Southwest	0	0
State		
North Central		
Illinois	-2.68	-1.04
Iowa	0	0
Kansas	0	-1.17
Minnesota	0	-1.23
Missouri	-2.55	-1.09
Nebraska	0	-1.46
Wisconsin	0	0
Northeast		
District of Columbia	+4.63	-0.08
Indiana	+2.90	-0.14
Maryland	0	+0.15
Massachusetts	+1.56	-0.21
New Jersey	+2.57	0

New York	+2.39	-0.06
Pennsylvania	+1.31	-0.07
West Virginia	0	0
Northwest		
Idaho	0	0
Montana	+0.76	-0.26
Oregon	-0.38	0
Washington	0	0
South Central		
Louisiana	0	0
Mississippi	-0.82	0
Oklahoma	0	-0.12
Texas	0	0
Southeast		
Alabama	-0.87	+0.06
Florida	0	+0.04
Georgia	+0.74	+0.06
Kentucky	+2.46	0
North Carolina	-0.57	+0.11
South Carolina	0	-0.06
Tennessee	0	0
Southwest		
California	0	+0.04
Nevada	0	0
New Mexico	+3.38	-0.04
Utah	0	0
Season		
Autumn	+0.19	-0.09
Spring	+0.35	-0.12
Summer	+0.50	-0.12
Winter	0	0

C. Atmospheric Data Type Results

The data from semi-continuous monitors was collected from 2004 – 2007. For the atmospheric data type, there were 32,376 days of collocated FRM/SC data. Appendix E gives the data counts by method, region, state, and season. Though not quite as nicely spread as with the acceptable type data, the atmospheric data were well-distributed within the various categorical variables' levels. With 24,224 observations, there was a clear predominance of the $PM_{2.5}$ SCC-FDMS-Gravimetric method over the other three atmospheric data type methods. All states

represented had at least hundreds of observations, and the regions and seasons all had at least thousands of data points at all levels.

The performance of the regression for the atmospheric data type was similar to that for the acceptable data. There were some relatively minor differences in that the intercept term was found to be statistically different from 0 with an estimated value of 1.67 $\mu g/m^3$. With an estimate of 0.66, the slope was statistically different from 1 and less than the slope from the acceptable data type regression. At 82%, the R^2 value from the regression was a bit lower than for the acceptable.

As for the acceptable data type, residual analysis and cross-validation both suggested good performance of the regression. Very similar comments apply to the diagnostic evaluation for the atmospheric data type as appear above for the acceptable data. One minor difference was that the atmospheric data residuals did not exhibit quite as much a spiked nature as the acceptable. The atmospheric data regression generated predicted values that were within 9.14 $\mu g/m^3$ of the measured FRM value more than 98% of the time; more than 90% of the time, the predictions agreed to within 5.22 $\mu g/m^3$ of the measured level.

Figure 5 presents the observed FRM values and the predicted $PM_{2.5}$ values in side-by-side histograms. Figure 6 provides the same display, but with the data divided by region of the country. Figure 7 plots cumulative distribution functions (CDFs) for the FRM data in black and the predicted values in red. As with the acceptable data type, the figures show very good

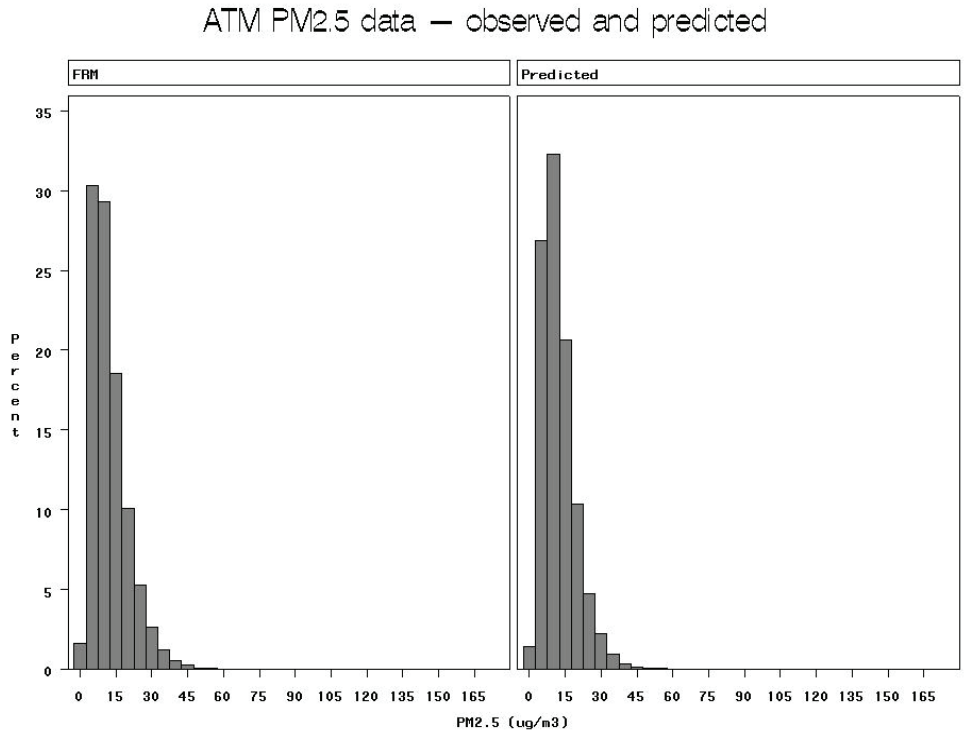

Figure 5. Overall Atmospheric Combined Histogram

agreement between observed FRM values and the predictions based on the SC daily averages when viewed over the entire range of observed values. Table 7 reports the results from the regression for the atmospheric data type. As noted above, the estimates for the basic underlying model are 1.67 $\mu g/m^3$ for the intercept and 0.66 for the slope. The slope is significantly different from 1. Table 7 is read exactly as is Table 6, which reports the results for the acceptable data type.

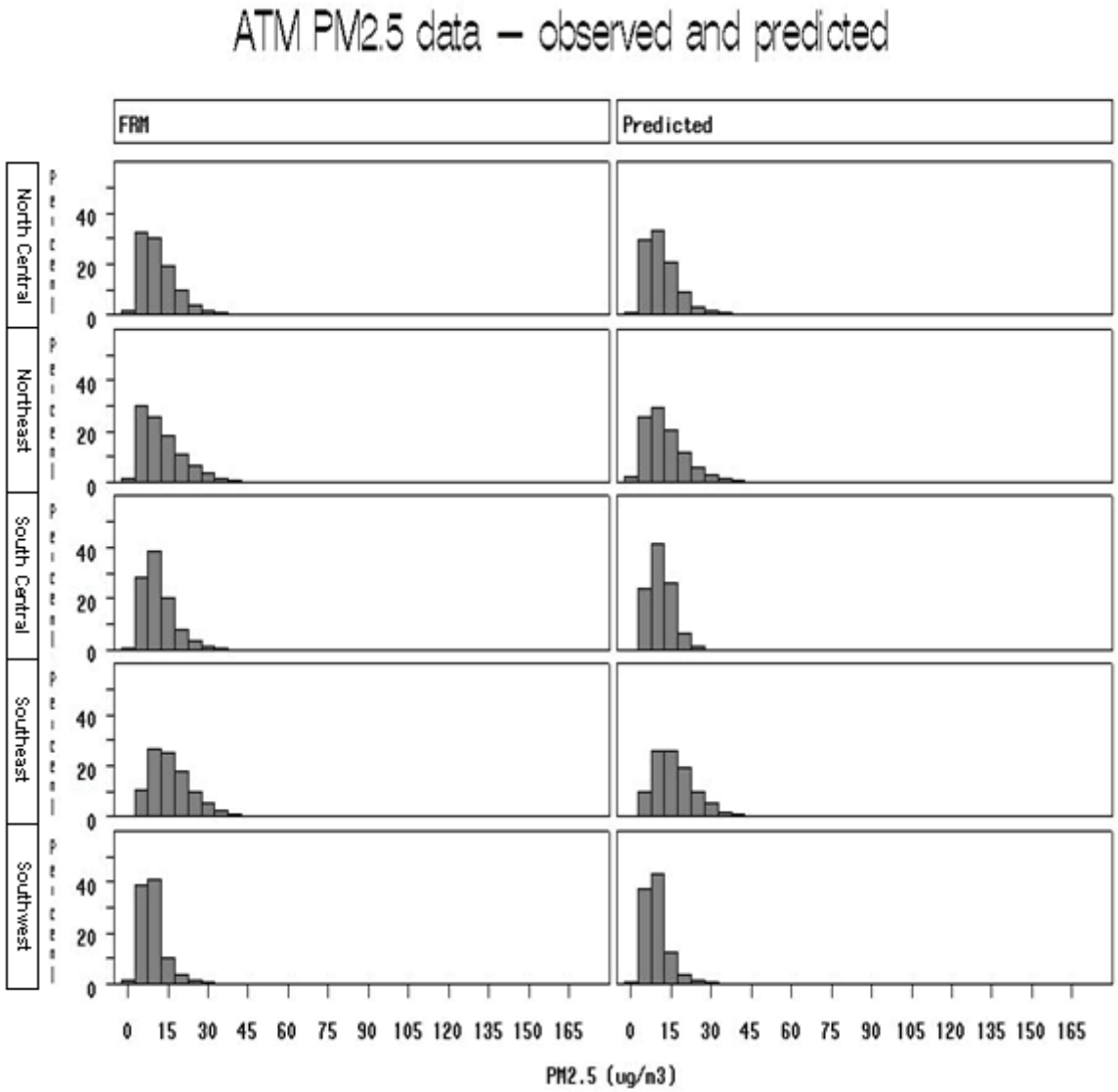

Figure 6. Regional Atmospheric Combined Histogram

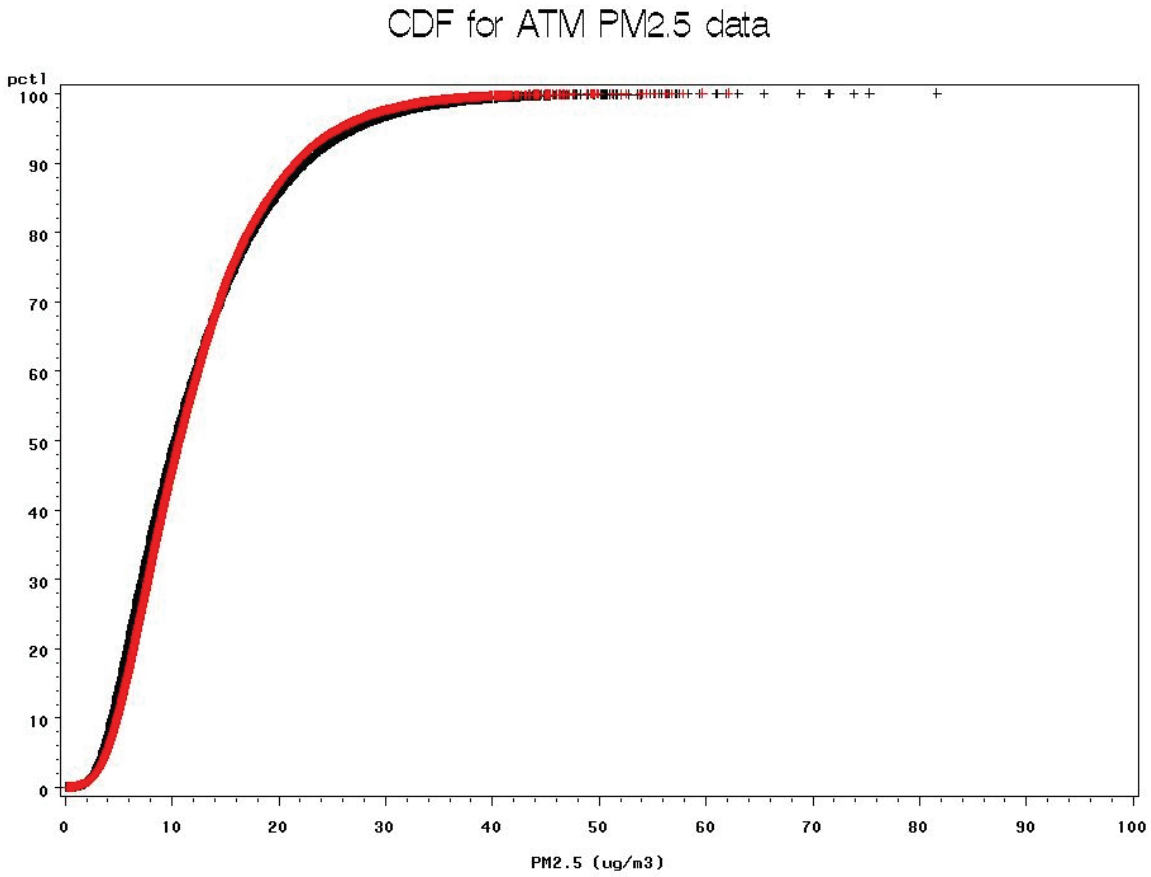

Figure 7. Overall Atmospheric Combined CDF (black: FRM, red: predicted)

The base model presented in Table 7 and Figure 8 for the atmospheric data type illustrates the overall relationship between the measured SC values and the predicted FRM values without the benefit of taking into account any further information regarding method, location, or season. With an intercept of 1.67 $\mu g/m^3$, the estimated base model for the atmospheric SC data indicates a slight overall bias of SC values to be higher than the FRM. But with a slope of only 0.66, the basic estimated model suggests a general tendency not to respond quickly enough to increasing $PM_{2.5}$ levels, as reported by the FRM monitor. Therefore, the base model alone will slightly overpredict at very low levels (to about 5 $\mu g/m^3$) and then underpredict the FRM values, as Figure 8 shows.

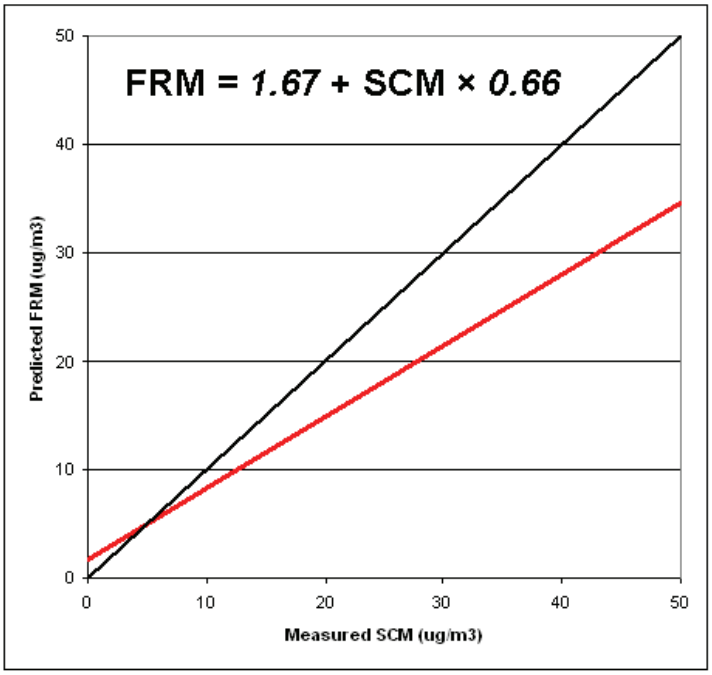

Figure 8. Base Model FRM Regression for Atmospheric Data (black: 1:1 line; red: predicted from base model)

Table 7. FRM Regression for Atmospheric Data: Intercept, Slope, and Adjustment Estimates

		Intercept	Slope
Base Model	**FRM = *INT* + SCM × *SLP***	**1.67**	**+0.66**
Adjustments			
		INT	***SLP***
Method			
$PM_{2.5}$ SCC w/ No Correction Factor – TEOM Gravimetric 30 deg C		0	+0.20
$PM_{2.5}$ SCC w/ No Correction Factor – TEOM Gravimetric 50 deg C		0	+0.94
$PM_{2.5}$ SCC-FDMS-Gravimetric		+0.41	0
$PM_{2.5}$ VSCC-FDMS-Gravimetric		0	0
Region			
North Central		+0.43	+0.13
Northeast		-2.03	+0.30
South Central		+1.36	-0.08
Southeast		+1.53	+0.17

Southwest	0	0
State		
North Central		
Iowa	-1.19	+0.14
Kansas	-1.59	+0.05
Missouri	-1.73	+0.16
Wisconsin	0	0
Northeast		
Connecticut	+1.60	-0.08
Michigan	+0.64	-0.24
New Hampshire	+1.55	-0.17
New Jersey	+2.53	-0.09
New York	+3.32	-0.15
Ohio	+2.47	-0.14
Pennsylvania	+1.09	-0.11
Vermont	0	0
South Central		
Oklahoma	0	0
Southeast		
Alabama	-3.56	+0.15
North Carolina	-5.40	0
South Carolina	0	0
Southwest		
Arizona	-0.74	+0.16
Colorado	0	0
Season		
Autumn	-0.48	-0.06
Spring	0	-0.11
Summer	-0.48	-0.06
Winter	0	0

D. Raw Data Type Results

The data from semi-continuous monitors was collected from 2004 – 2007. For the raw data type, there were 99,372 days of collocated FRM/SC data. Appendix E gives the data counts by method, region, state, and season. As with the other data types, the observations were broadly distributed across the levels of the categorical variables. The smallest number of observations was 60 for the $PM_{2.5}$ WINS w/ No Correction factor-TEOM Gravimetric 50 deg C method. All other levels for any variable had at least hundreds, more often thousands or tens of thousands, of observations.

The performance of the regression for the raw data type was similar to that for the acceptable data. The intercept was not found to be statistically different from 0, and the final model was estimated without an intercept term. The slope was found to be higher than for the acceptable data; the estimate was 1.45 and was statistically different from 1. The R^2 value of 88% was only slightly lower than the 90% for the acceptable data type.

Again, residual analysis and cross-validation both suggested good performance of the regression. Very similar comments apply to the diagnostic evaluation for the raw data type as appear above for the acceptable data. The raw data regression predicted values were within 8.93 $\mu g/m^3$ of the measured FRM value over 98% of the time, and more than 90% of the time was within 4.44 $\mu g/m^3$ of the measured level.

Figure 9 presents the observed FRM values and the predicted $PM_{2.5}$ values in side-by-side histograms. Figure 10 provides the same display, but with the data divided by region of the country. Figure 11 plots cumulative distribution functions (CDFs) for the FRM data in black and the predicted values in red. As with the two earlier data types, the figures show very good agreement between observed FRM values and the predictions based on the SC daily averages when viewed over the entire range of observed values. Table 8 reports the results from the regression for the acceptable data type. As noted above, the estimates for the basic underlying model are 0 for the intercept and 1.45 for the slope. The slope is significantly different from 1. Table 8 is read exactly as is Table 6, which reports the results for the acceptable data type.

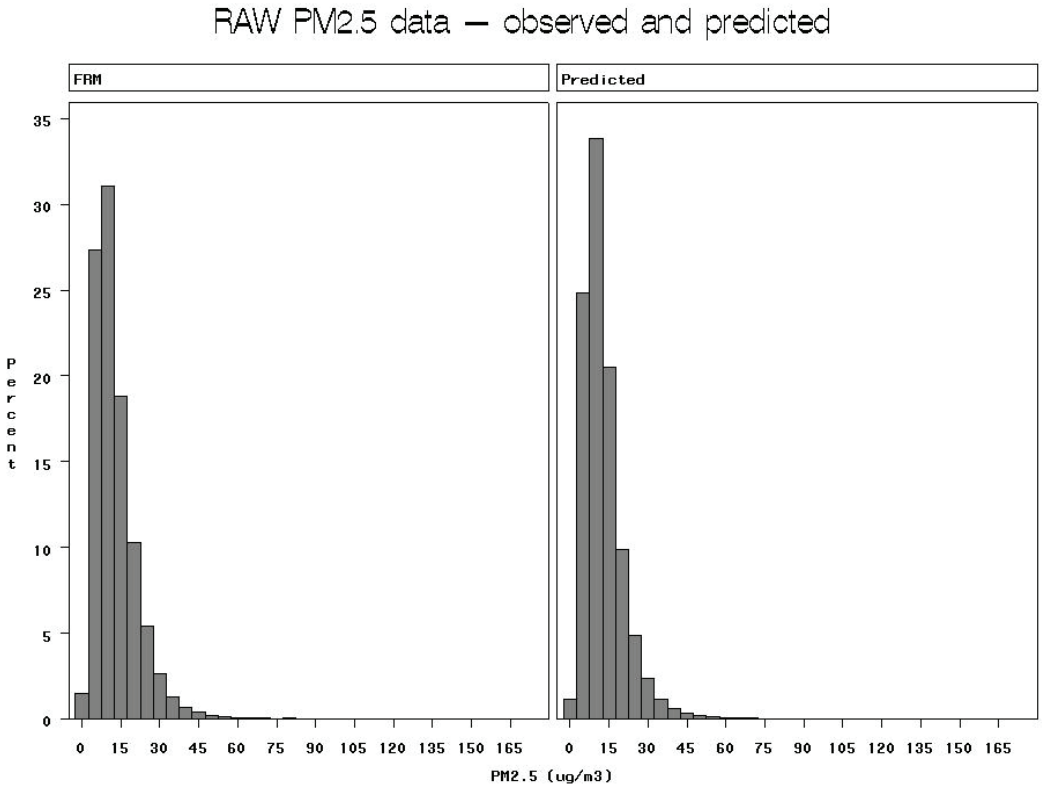

Figure 9. Overall Raw Combined Histogram

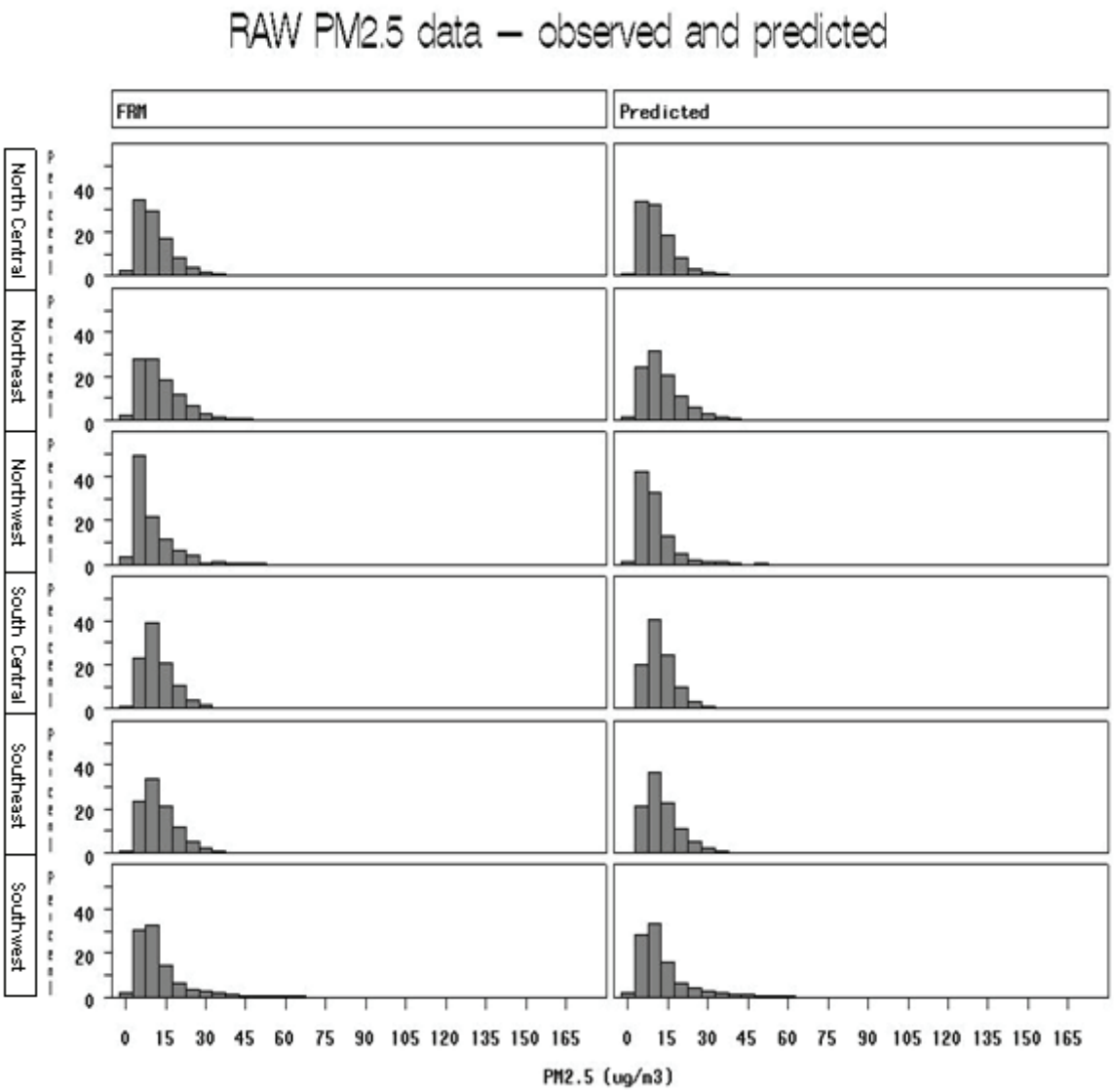

Figure 10. Regional Raw Combined Histogram

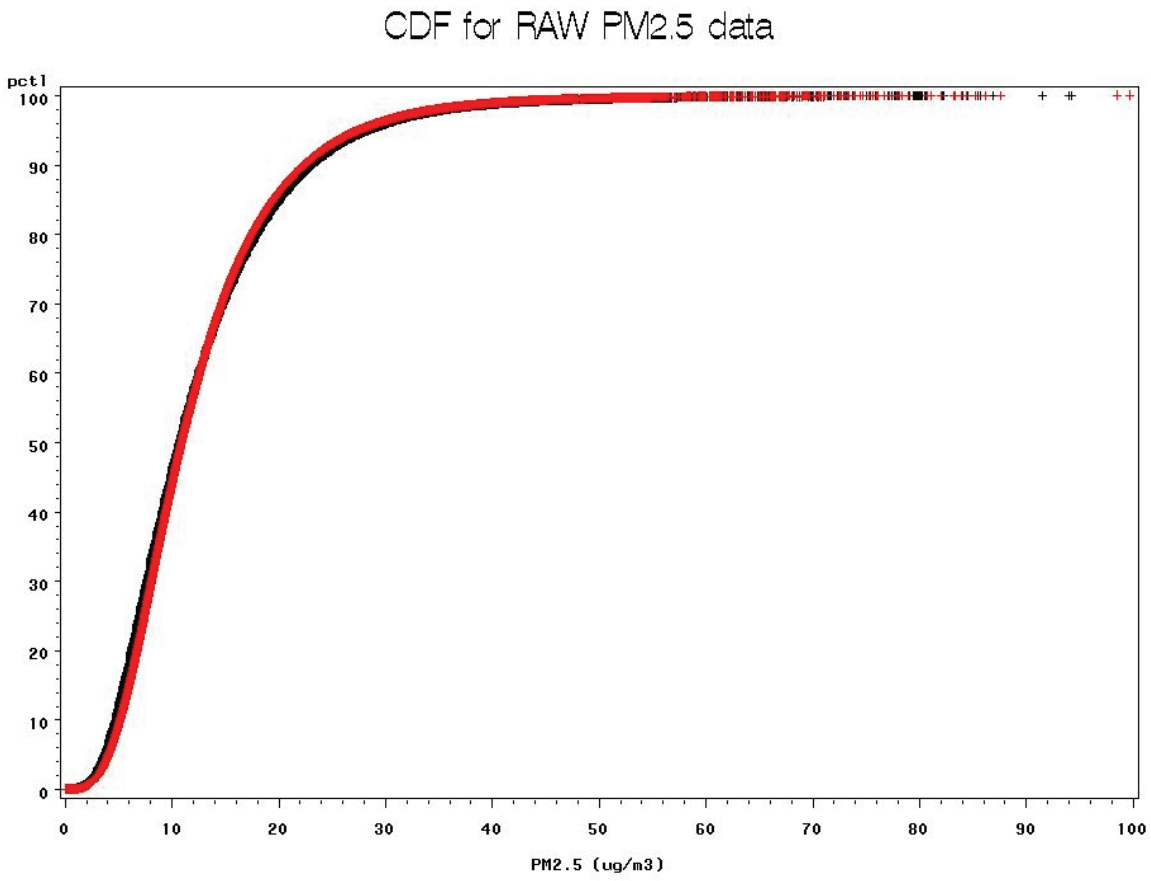

Figure 11. Overall Raw Combined CDF (black: FRM, red: predicted)

The base model for the raw data presented in Table 8 and Figure 12 illustrates the overall relationship between the measured SC values and the predicted FRM values without the benefit of taking into account any further information regarding method, location, or season. As for the acceptable data type with an intercept of 0, the estimated base model for the raw SC data gives no evidence of any general bias of the SC values over the FRM. However, in contrast to both the acceptable and atmospheric data types, the slope of the base model is estimated to be above 1.0 at 1.45. Because of this, the base model used will consistently overestimate the FRM values, as Figure 12 clearly demonstrates.

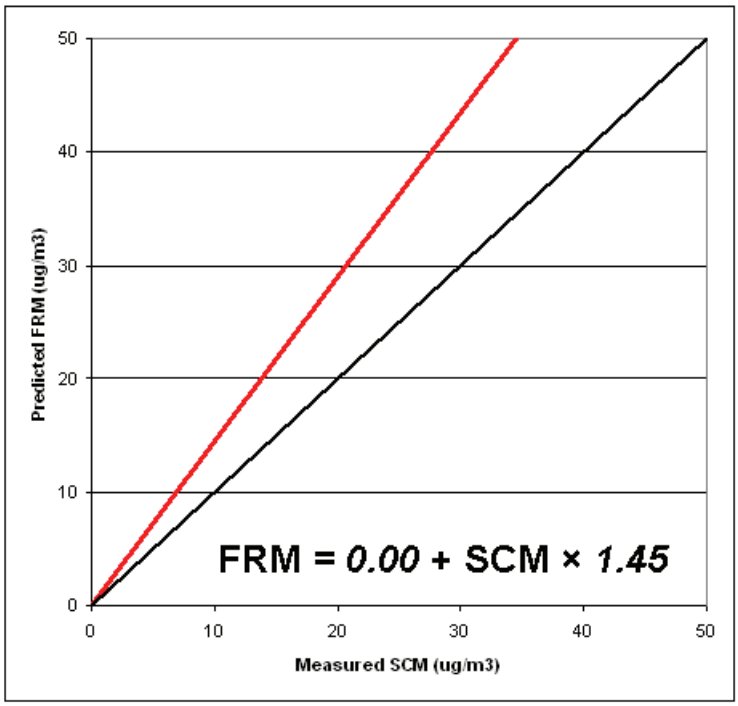

Figure 12. Base Model FRM Regression for Raw Data (black: 1:1 line; red: predicted from base model)

Table 8. FRM Regression for Raw Data: Intercept, Slope, and Adjustment Estimates

		Intercept	Slope
Base Model	**FRM = *INT* + SCM × *SLP***	**0.00**	**+1.45**
Adjustments			
		INT	***SLP***
Method			
Automated Wins 2.5µm Impactor-TEOM Gravimetric		-1.50	0
Andersen BAM w/ $PM_{2.5}$ SCC-Beta Attenuation		-1.73	-0.28
Andersen BAM w/ $PM_{2.5}$ VSCC-Beta Attenuation		-0.86	-0.39
Met-One BAM w/ $PM_{2.5}$ SCC-Beta Attenuation		-1.15	-0.29
$PM_{2.5}$ SCC w/ Correction Factor – TEOM Gravimetric 30 deg C		-3.59	0
$PM_{2.5}$ SCC w/ Correction Factor – TEOM Gravimetric 50 deg C		-1.55	0
$PM_{2.5}$ SCC w/ No Correction Factor – TEOM Gravimetri		-1.56	0
$PM_{2.5}$ SCC w/ No Correction Factor – TEOM Gravimetric 30 deg C		-1.71	0

$PM_{2.5}$ SCC w/ No Correction Factor – TEOM Gravimetric 40 deg C	0	-0.37
$PM_{2.5}$ SCC w/ No Correction Factor – TEOM Gravimetric 50 deg C	-1.54	0
$PM_{2.5}$ SCC-FDMS-Gravimetric	+0.58	-0.50
$PM_{2.5}$ SSI w/ No Correction Factor – TEOM Gravimetric 50 deg C	+1.08	-0.29
$PM_{2.5}$ VSCC w/ No Correction Factor – TEOM Gravimetric 30 deg C	-1.78	0
$PM_{2.5}$ VSCC w/ No Correction Factor – TEOM Gravimetric 50 deg C	-2.83	0
$PM_{2.5}$ VSCC-FDMS-Gravimetric	0	-0.50
$PM_{2.5}$ WINS w/ No Correction Factor – TEOM Gravimetric 30 deg C	-0.91	+0.28
$PM_{2.5}$ WINS w/ No Correction Factor – TEOM Gravimetric 50 deg C	0	0
Region		
North Central	+3.60	-0.36
Northeast	+1.36	-0.21
Northwest	+3.27	-0.22
South Central	+3.67	-0.22
Southeast	+2.53	-0.31
Southwest	0	0
State		
North Central		
Illinois	-2.14	+0.08
Iowa	-3.34	+0.34
Kansas	-4.00	+0.15
Missouri	-2.30	-0.39
North Dakota	0	+0.16
South Dakota	0	0
Northeast		
Connecticut	+0.37	0
Delaware	-1.44	0
Indiana	+2.40	-0.16
Maine	+2.10	+0.06
Maryland	+1.40	-0.18
Michigan	+1.46	-0.10
New Hampshire	+1.27	+0.06
New Jersey	+1.26	-0.06
New York	-1.29	+0.03

Ohio	+2.46	-0.07
Pennsylvania	+0.81	-0.04
Rhode Island	0	0
Northwest		
Idaho	0	0
South Central		
Arkansas	-0.74	-0.10
Oklahoma	-3.54	-0.07
Texas	0	0
Southeast		
Alabama	0	0
Florida	-2.21	0
Kentucky	0	0
North Carolina	-1.72	+0.03
South Carolina	0	0
Tennessee	0	0
Virginia	0	0
Southwest		
Arizona	+5.63	-0.31
California	+1.45	-0.23
Colorado	+4.39	-0.40
Nevada	0	-0.11
New Mexico	+4.65	-0.54
Utah	0	0
Season		
Autumn	-0.44	-0.07
Spring	+0.16	-0.15
Summer	+0.17	-0.14
Winter	0	0

E. Utilization of the Predictive Equations

As noted above, the base models presented in Tables 6, 7, and 8 describe the overall relationship between the measured SC values and the predicted FRM values, without the benefit of taking into account any of the categorical variables. The slope and intercept adjustments found in the tables are additive terms that modify the base models to take advantage of the knowledge of each specific method, region, state, or season. The adjustments may be applied individually or collectively, in whole or in part. The only caveat to this is that if the state is known, then the region is also automatically determined, and both regional and state adjustments should be made. The tables may be used to predict a daily FRM value from the average of hourly SC measurements as follows.

(1) For the particular method, region, state, and season that apply, add or subtract the value appearing in the ***INT*** column of the table from the basic estimate. This becomes the adjusted intercept, $\boldsymbol{INT_{adj}}$.

(2) Similarly, adjust the basic slope estimate via the values in the ***SLP*** column to obtain $\boldsymbol{SLP_{adj}}$.

(3) Using the mean of the SC measurements, **SCM**, calculates the **FRM** values as: $\mathbf{FRM = INT_{adj} + SCM \cdot SLP_{adj}}$.

This procedure is illustrated below. First, the estimated base models are:

Acceptable: $\mathbf{FRM = 0 + 0.90 \cdot SCM}$

Atmospheric: $\mathbf{FRM = 1.67 + 0.66 \cdot SCM}$

Raw: $\mathbf{FRM = 0 + 1.45 \cdot SCM}$

where, for clarity, the estimated intercepts of 0 are explicitly entered where applicable.

Now consider Table 9, which has been extracted from Tables 6, 7, and 8.

Table 9. Selected Intercept and Slope Adjustments

Category	Acceptable adjustments		Atmospheric adjustments		Raw adjustments	
	Intercept	Slope	Intercept	Slope	Intercept	Slope
$PM_{2.5}$ SCC-FDMS-Gravimetric	0	0	0.41	0	0.58	-0.50
Southeast	1.36	0.09	1.53	0.17	2.53	-0.31
North Carolina	-0.57	0.11	-5.40	0	-1.72	0.03
Spring	0.35	-0.12	0	-0.11	0.16	-0.15

For the acceptable data type, if one now brings to bear the condition that the SC measurements result from the $PM_{2.5}$ SCC-FDMS-Gravimetric method, then (reading from Table 9) the adjustment factors to the base equation for this condition are 0 for the intercept and 0 for the slope. The predictive equation in this case is then simply equal to the base equation:

$$\mathbf{FRM = (0 + 0) + (0.90 + 0)\cdot SCM = 0 + 0.90\cdot SCM}$$

If one now wishes to also specify that the monitoring is done in the Southeast region, then the adjustments are 1.36 for the intercept and 0.09 for the slope. Hence the equation becomes:

FRM = (0 + 1.36) + (0.90 + 0.09)·SCM = 1.36 + 0.99·SCM.

If, beyond the base equation, this were all the additional information at one's disposal, then this final equation would indicate for the SCC-FDMS-Gravimetric method a slight overall bias of 1.36 $\mu g/m^3$ and with a slope of 0.99, an almost identical matching of the rate of increase of the $PM_{2.5}$ levels in the Southeast.

If in addition, one applies knowledge that the sampling is from North Carolina, then the equation changes to

FRM = (1.36 - 0.57) + (0.99 + 0.11)·SCM = 0.79 + 1.10·SCM.

Finally, if one wishes to bring the spring season into the predictive equation, the predictive equation is

FRM = (0.79 + 0.35) + (1.10 - 0.12)·SCM = 1.14 + 0.98·SCM.

This then is the equation for utilizing acceptable SC data collected with the SCC-FDMS-Gravimetric method in springtime North Carolina to predict FRM $PM_{2.5}$ levels. In exactly the same manner, the intercept and slope adjustments presented in Table 9 may be used for the atmospheric and raw data types. Conducting all these adjustments at once yields the following resulting correlation equations:

Atmospheric: **FRM = (1.67 + 0.41 + 1.53 – 5.40 + 0) + (0.66 + 0 + 0.17 + 0 – 0.11) · SCM = -1.79 + 0.72 · SCM**

and

Raw: **FRM = (0 + 0.58 + 2.53 - 1.72 + 0.16) + (1.45 – 0.50 - 0.31 + 0.03 – 0.15) · SCM = 1.55 + 0.52 · SCM**

Note that when using Tables 6, 7, and 8, each intercept and slope adjustment value for the last parameter in each category (for each categorical variable) is "0". This occurs due to the fact that we are using categorical variables (e.g., Method [monitor type], Region, State, and Season) as predictors and is an artifact of how SAS reports results for regressions using categorical variables. The regressions were implemented in SAS using the simple slope-intercept straight line, which serves as the "base" model for the predictions. The base model can be thought of as the predictive equation that provides "the 'best' model for the data in the absence of further information." However, our data does contain further (additional) information (e.g., the categorical variables Method [monitor type], Region, State, and Season). The regressions were run so that the results allowed adjustment of the slope or intercept (or both) to incorporate the effect that each specific category had.

SAS places categorical variables in alphabetical order when implementing a regression analysis using a number (n) of categorical variables. The SAS software then implements the regression such that the adjustments to the slope and/or intercept parameters can be explained by all of the categorical variables excluding the last categorical variable (e.g., all of the changes to slope and intercept can be explained by the first 'n-1' categorical variables). This does not mean that the data from the last categories were not used. All the data were used to estimate the predictive equations.

F. Evaluation of Corrected vs. Not Corrected Methods

As noted earlier, some of the SC monitoring methods for the acceptable and raw data types appeared in AQS with designations of both "w/ Correction Factor" and "w/ No Correction Factor." Since information on either the criteria for applying corrections or how they were implemented was not available, a direct comparison of data from these two types of designations was difficult. However, they were compared based on their effects on the intercept and slope estimates.

For the acceptable data type, five methods were compared with respect to their corrected versus not corrected effects. For the raw data, two methods had corrected and not corrected levels. Table 10 presents the results of the comparisons. As can be seen, very few differences were detected.

For the acceptable data, the only difference found was in the effect on the slope for the WINS TEOM Gravimetric 30 deg C method. The corrected method was estimated to have a slope adjustment of 0.10, but no adjustment for the uncorrected method.

Table 10. Statistically Significant Differences Between Adjustment Estimates – Corrected versus Not Corrected Methods

Table 10a. Acceptable Data Type

Method	Intercept	Slope
$PM_{2.5}$ SCC TEOM Gravimetric 30 deg C	not significant	not significant
$PM_{2.5}$ SCC TEOM Gravimetric 50 deg C	not significant	not significant
$PM_{2.5}$ SSI TEOM Gravimetric 50 deg C	not significant	not significant
$PM_{2.5}$ VSCC TEOM Gravimetric 30 deg C	not significant	not significant
$PM_{2.5}$ WINS TEOM Gravimetric 30 deg C	not significant	significant

Table 10b. Raw Data Type

Method	Intercept	Slope
$PM_{2.5}$ SCC TEOM Gravimetric 30 deg C	significant	not significant
$PM_{2.5}$ SCC TEOM Gravimetric 50 deg C	not significant	not significant

For the raw data type, a difference was found between the intercept effects for the SCC TEOM Gravimetric 30 deg C monitoring. The corrected method led to an intercept adjustment of -3.59 while the value for the uncorrected adjustment was smaller at -1.71.

G. Performance of the Regressions in the General Area of Baltimore, MD

To provide an indication of how the regression models performed in a specific locality, focus was directed toward the city of Baltimore, MD. Sites were chosen that were in the city, relatively close to the greater Baltimore area, and extending across a somewhat larger geographic area.

For purposes of this discussion, these geographic areas are designated as the Baltimore city, near Baltimore, and larger Baltimore areas, respectively. The corresponding approximate geographic extents are: the Baltimore city limits; an area extending west to Fairfax, VA, and Washington, DC, east into Delaware, and north to Philadelphia, Reading, York, and Gettysburg, PA, and south to Georgetown, DE; west to Pittsburgh, PA, and the mountains of Virginia, east into Delaware, north to Newark and Jersey City, NJ, and south to Roanoke, Richmond, and Hampton, VA.

In addition to these areas, the model was also assessed for the cases of the larger Baltimore area augmented with sites from New York state, designated here as the mid-Atlantic area, and from New York state alone. Figures 13-17 display the site locations within these different areas.

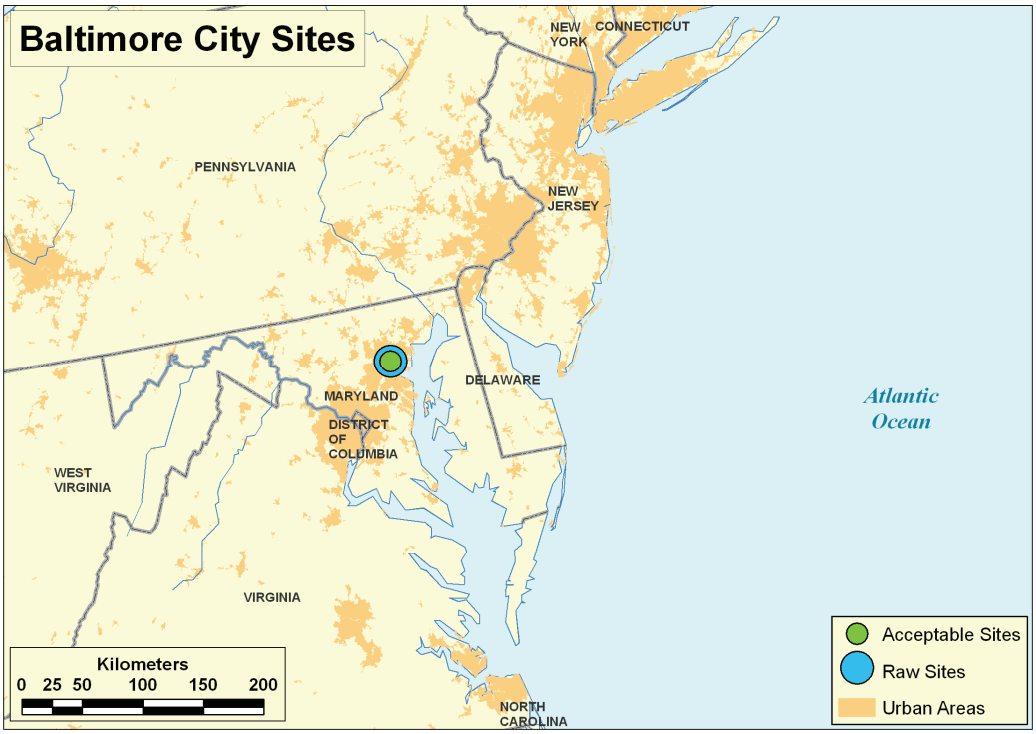

Figure 13. Location of FRM/SC Comparison Sites in the city of Baltimore

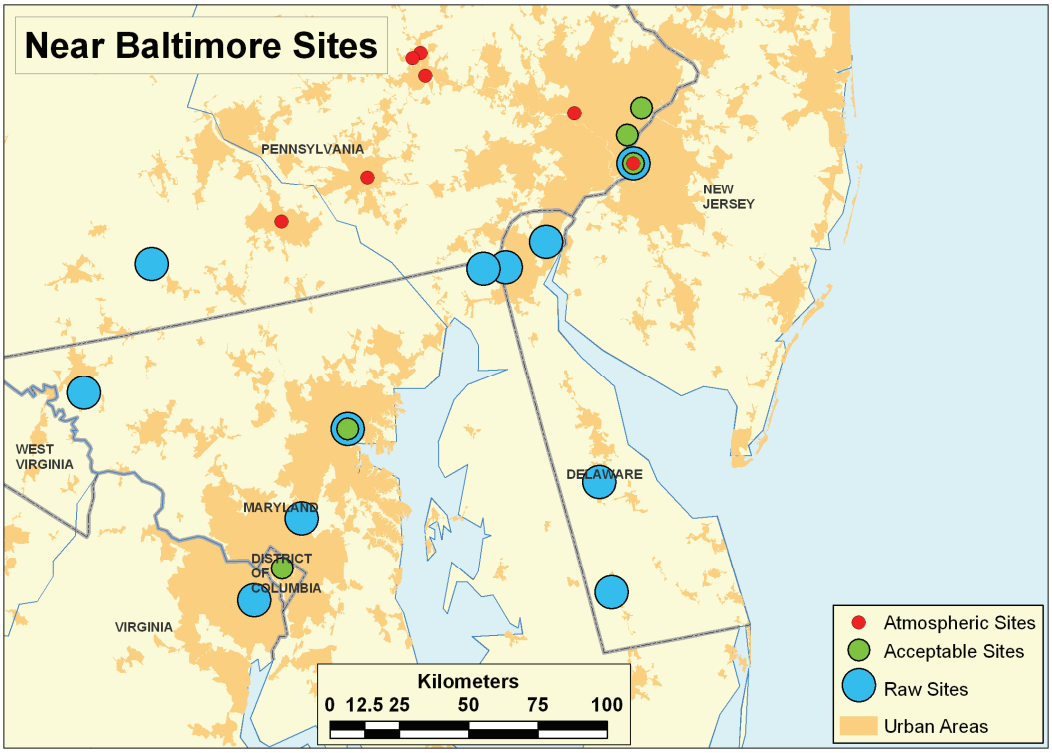

Figure 14. Location of FRM/SC Comparison Sites in the near Baltimore Region

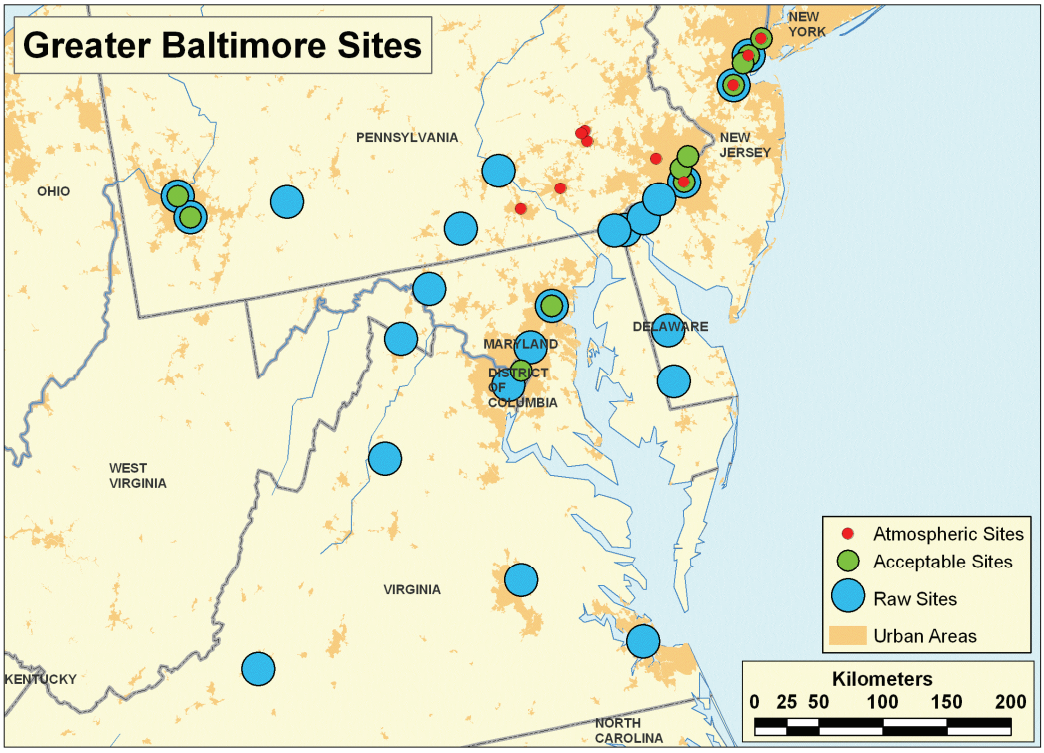

Figure 15. Location of FRM/SC Comparison Sites in the larger Baltimore Region

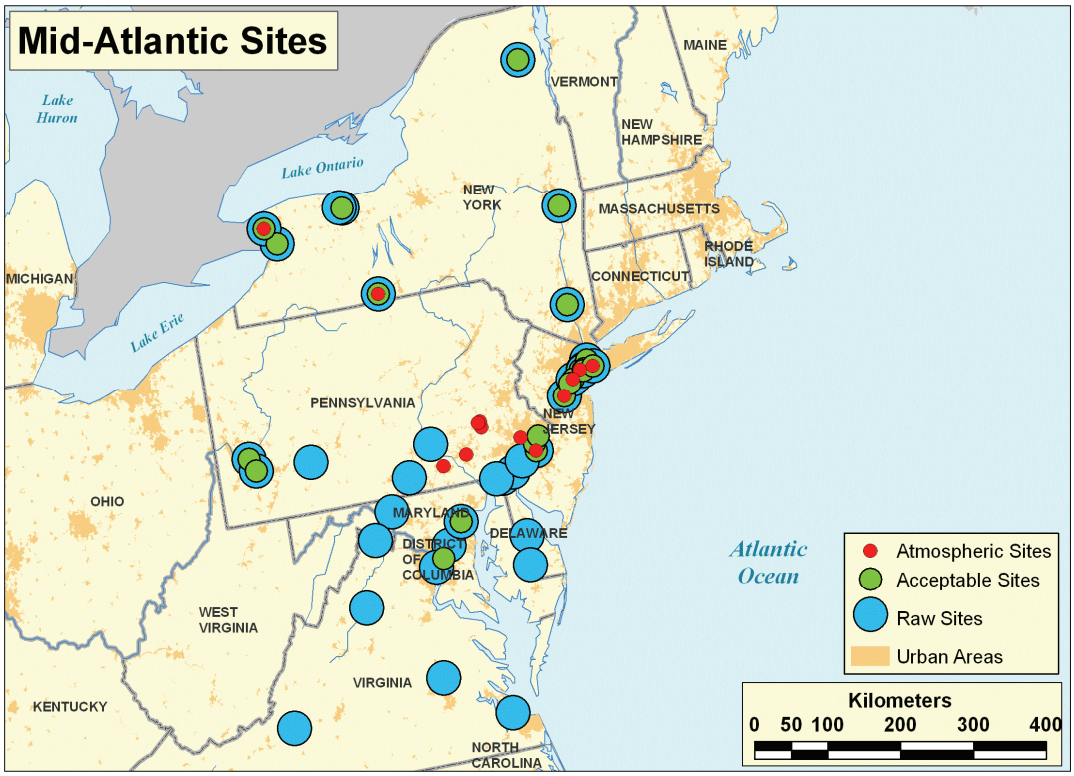

Figure 16. Location of FRM/SC Comparison Sites in the mid-Atlantic Region

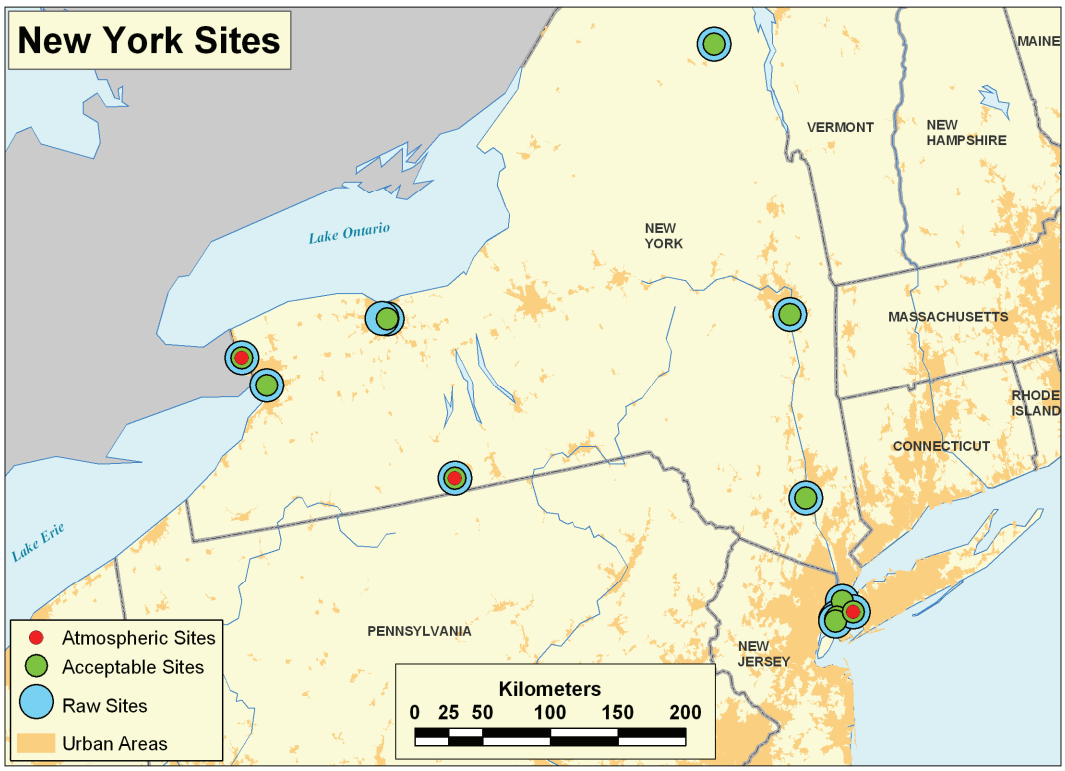

Figure 17. Location of FRM/SC Comparison Sites in New York state

For each of the areas and data types, the regression was examined by calculating an R^2 value and evaluating residuals using only data from sites in the particular geographic area being assessed. As would be expected, the residuals were more widely dispersed as the area under consideration was expanded geographically. The results for the different areas were quite similar to the overall regression results, though there was a slight bias toward overestimation (1.42 $\mu g/m^3$) for the raw data within the city itself. Table 11 presents the number of collocated FRM/SC sites, the number of observations, and the R^2 specific to the area/data type combination.

Table 11. Performance of the Regressions in the Baltimore, MD, Area

	Baltimore City	Near Baltimore	Larger Baltimore	Mid-Atlantic	NY State
Acceptable					
No. sites	1	5	11	23	12
No. observations	1288	3810	6616	8823	2207
R^2 (%)	88	89	90	90	89
Atmospheric					
No. sites	0	7	10	13	3
No. observations	---	1971	3228	3842	614
R^2 (%)	---	85	86	86	82
Raw					
No. sites	1	11	23	36	13
No. observations	928	5840	13328	21477	8149
R^2 (%)	80	81	88	90	91

H. Performance of the Regressions Relative to the Daily Regulatory Standard

While the above discussion covers the performance of the regressions with respect to the entire range of **$PM_{2.5}$** values, the predictions were also examined in terms of values from the upper end of the distribution. Here, "upper end" refers to values in excess of 35 $\mu g/m^3$. This level is established as the 24-hour regulatory standard. First, days for which the FRM value was 35 $\mu g/m^3$ or above were checked to ascertain whether the prediction from the SC data was also at or above this value. The comparison the other way around was also done, *viz.*, if the predicted value was above this level, was the FRM value as well? Table 12 reports the counts and percentages from these comparisons. As Table 12a indicates, the regressions did not predict exceedances of the standard as often as they were detected by the FRM data. For the acceptable and raw data, exceedances were missed 26% of the time by the predictions and half the time for the atmospheric data type. These results provide evidence that users of the model should include additional factors if the model is being utilized to accurately determine exceedances of the **$PM_{2.5}$** NAAQS standard**s** and to obtain results that essentially replicate FRM measurements. The regression equations developed in this analysis are for research purposes. Any attempt to use the

regression equations as an accurate predictor of FRM measurements values will require additional analysis.

While Figures 3, 7, and 11 hint at this underestimation, it is explored in more depth for each data type in Figures 18-26. Figures 18-20 are analogous to the earlier overall histogram and CDF plots for the acceptable data, but incorporate only days for which the FRM level was above 35 $\mu g/m^3$. As before, Figure 18 displays histograms for the FRM and predicted values in a side-by-side fashion. Figure 19 repeats this, but with the data displayed by region. Figure 19 suggests that in terms of percentage frequency the underestimation is worst in the south central and north central regions and rather infrequent in the Southeast. Figure 20 presents the CDFs for the FRM (black color) and predicted (red color) values. (The CDFs are truncated at the level of 100 $\mu g/m^3$.) Figure 20 is illuminating in that it shows a clear bias toward the underestimation of values when the FRM was at or over the standard level. Figure 20 suggests that, for the most part, the differences between the FRM and predicted levels are not very large. Examination of the residuals from these data showed that more than 70% of the predictions (over- and underestimates together) were within 5 $\mu g/m^3$ of the FRM value, and over 91% were within 10 $\mu g/m^3$. However, the differences could be large. For the acceptable data with an FRM value over the standard, the greatest overestimate was 24.35 $\mu g/m^3$ and the largest underestimate was 62.78 $\mu g/m^3$ (though the differences declined in magnitude quickly from these maxima).

Figures 21-23 present the same plots for the atmospheric data and tell much the same story. There is a clear tendency toward underestimation with the south central region perhaps being more susceptible to this and the Southeast having less frequent underestimation on a percentage basis. The differences between predictions and the FRM values were not as great for the atmospheric data as for the acceptable. More than 90% of the differences were less than 13 $\mu g/m^3$. The worst overestimate was 8.47 $\mu g/m^3$, and the worst underestimate was 37.75 $\mu g/m^3$. For the raw data type, the comparison of predicted and FRM values when the FRM number was

Table 12. $PM_{2.5}$ Values ≥ 35 $\mu g/m^3$

Table 12a. FRM values above the standard compared to predicted values

	Acceptable	Atmospheric	Raw
FRM ≥ 35	1327	502	2219
Predicted ≥ 35	981	252	1648
Percentage	74	50	74

Table 12b. Predicted values above the standard compared to FRM values

	Acceptable	Atmospheric	Raw
Predicted ≥ 35	1150	302	1908
FRM ≥ 35	981	252	1648
Percentage	85	83	86

at or more than 35 µg/m^3 was almost identical to that for the acceptable data. Figures 24-26 provide the corresponding graphical displays. Perhaps one difference is that there appears to be less regional distinction in terms of the frequency of underestimation for the raw data. Much like the acceptable data, the residuals from the raw data showed that more than 70% of the predictions were within 6 µg/m^3 of the FRM value, and approximately 90% were within 10 µg/m^3. The maximal over- and underestimates for the raw data were 26.67 and 63.67 µg/m^3, respectively. These are very similar to the worst discrepancies seen for the acceptable data, and as for that data type, moderated rapidly.

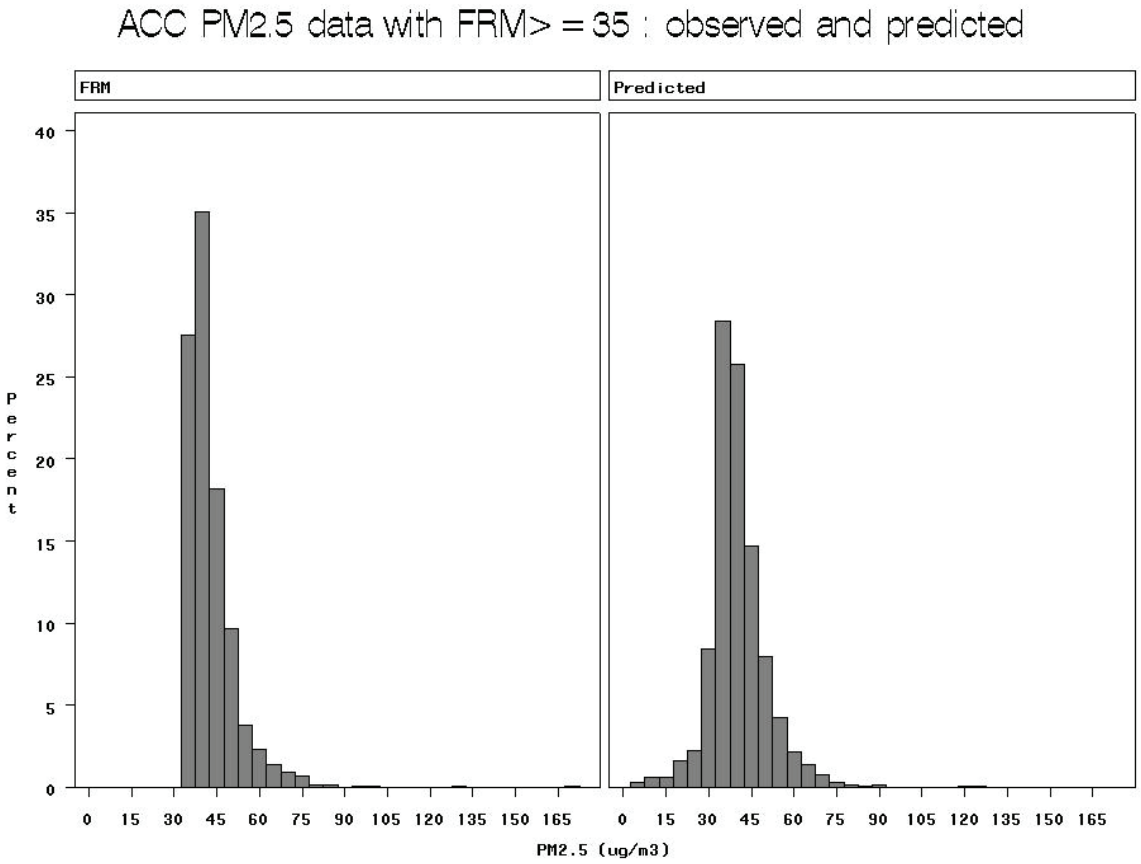

Figure 18. FRM ≥ 35 µg/m^3 Acceptable Combined Histogram

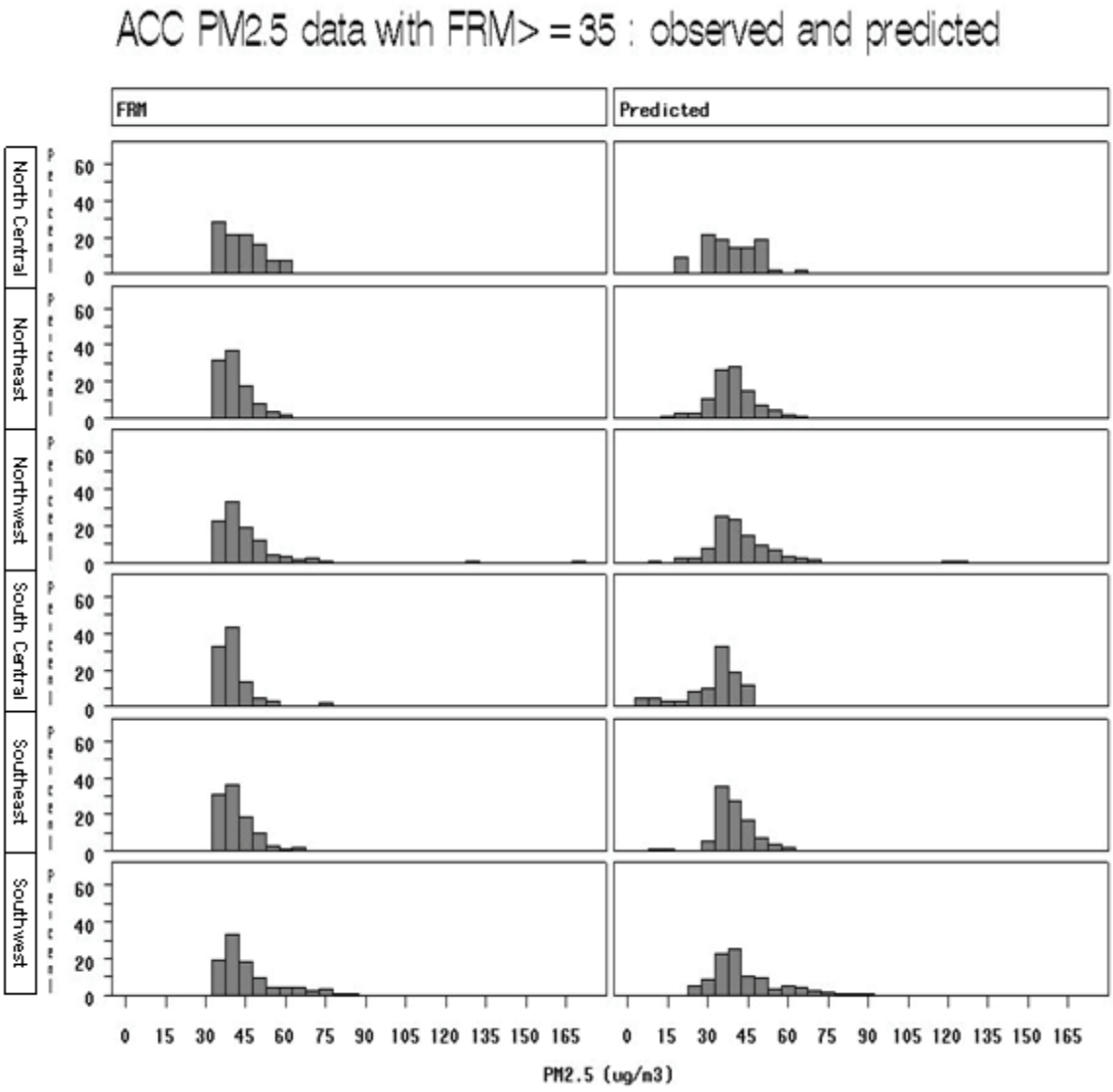

Figure 19. FRM ≥ 35 µg/m^3 Acceptable Regional Histogram

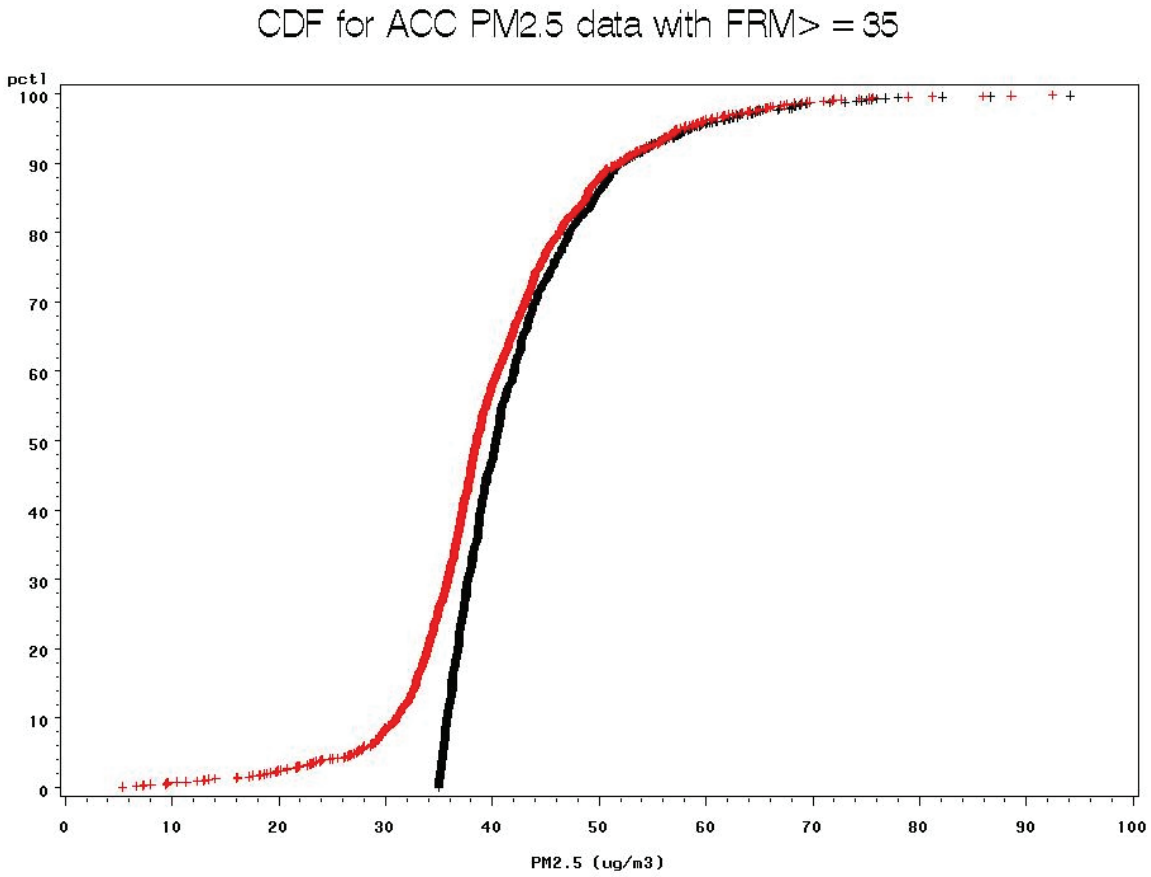

Figure 20. FRM ≥ 35 µg/m^3 Acceptable Combined CDF (black: FRM, red: predicted)

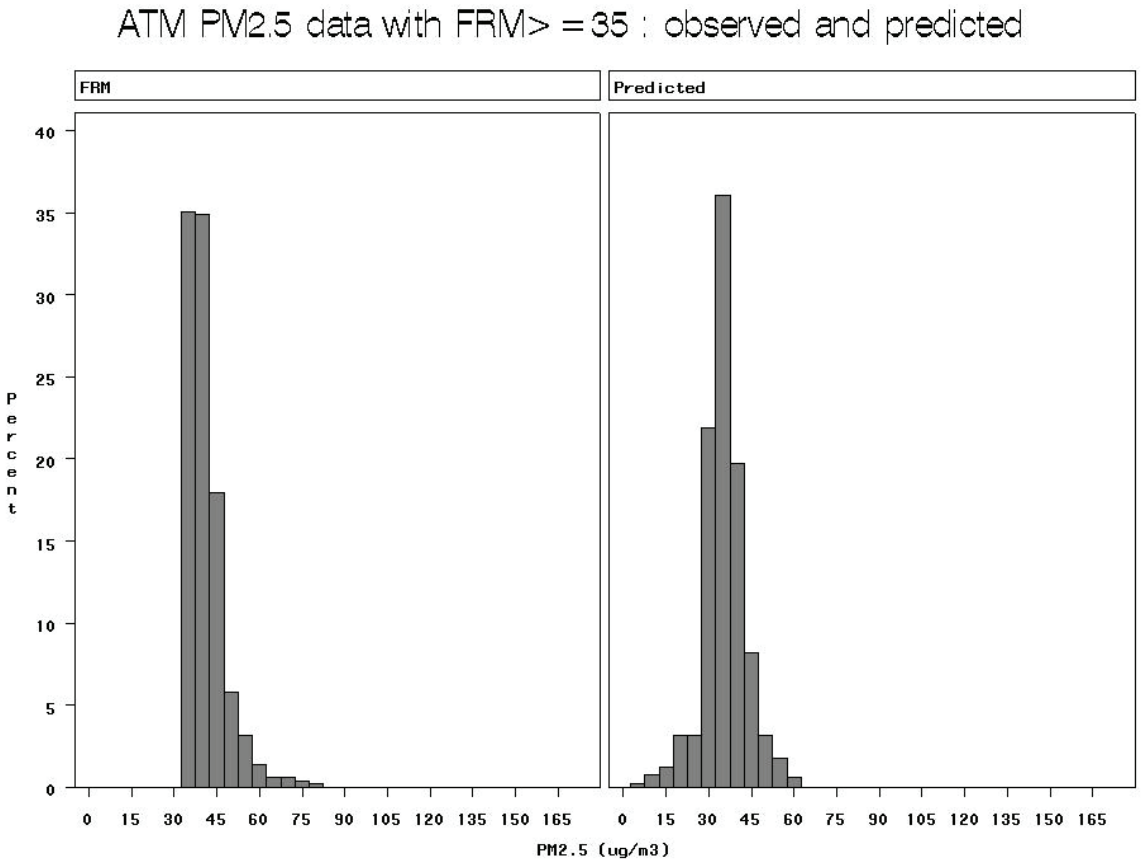

Figure 21. FRM ≥ 35 µg/m^3 Atmospheric Combined Histogram

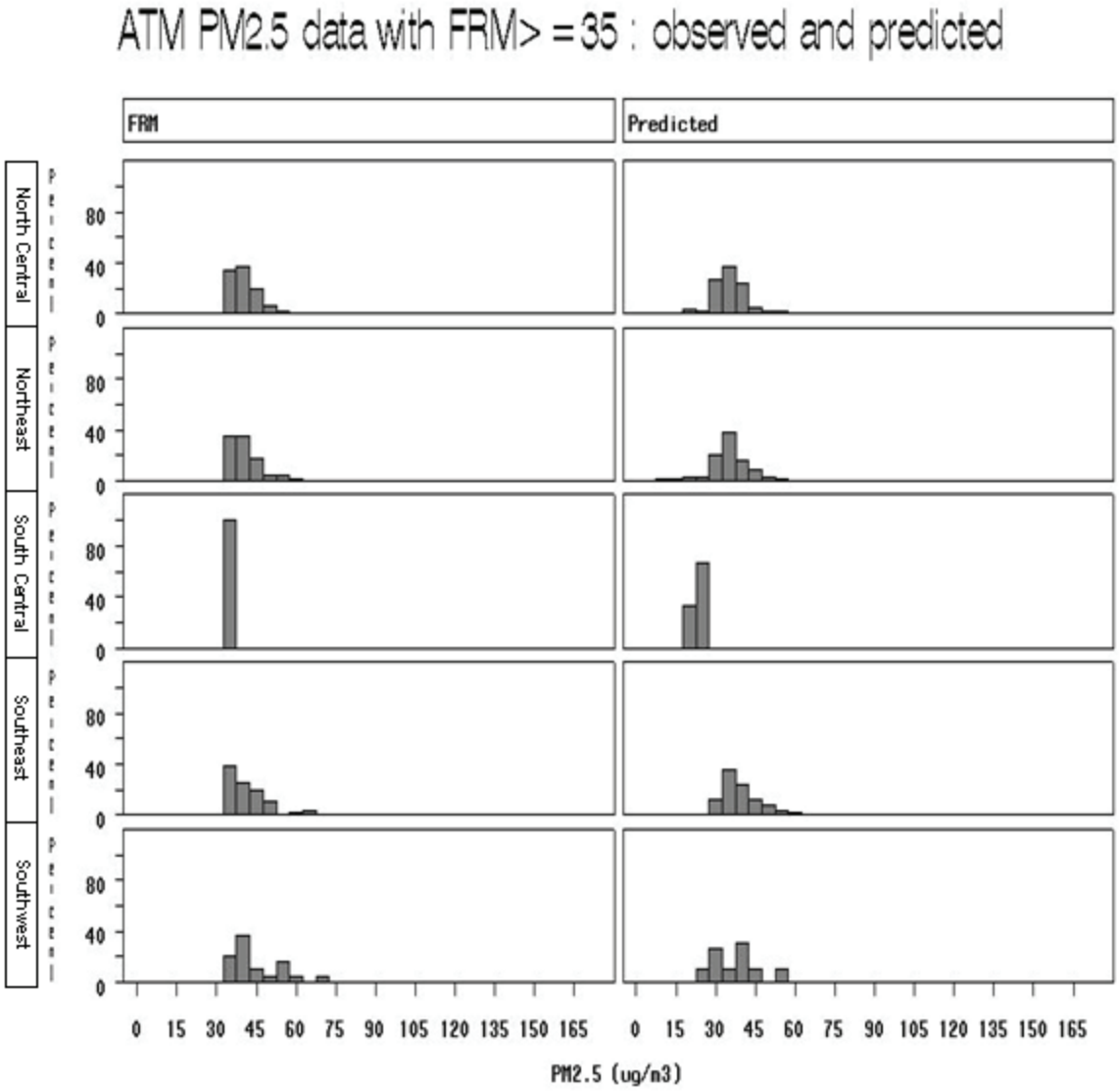

Figure 22. FRM ≥ 35 µg/m^3 Atmospheric Regional Histogram

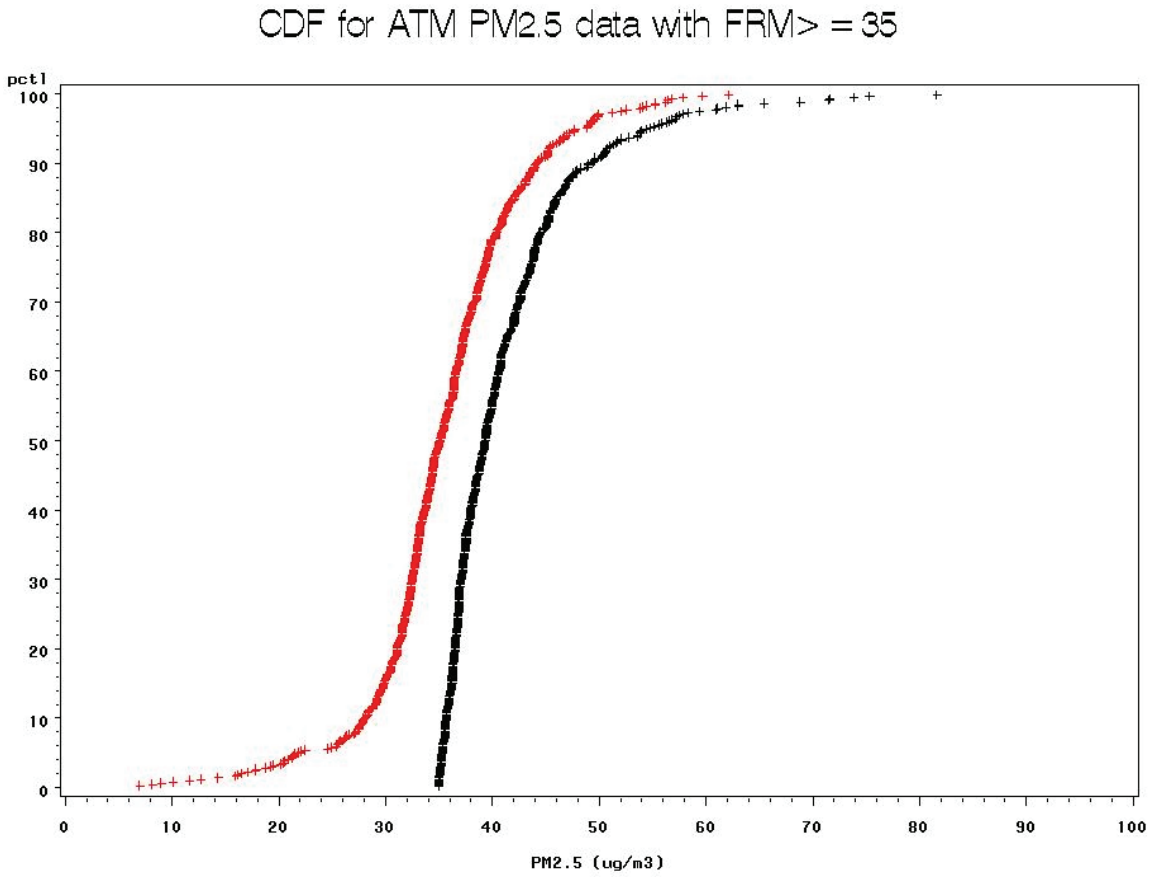

Figure 23. FRM ≥ 35 µg/m^3 Atmospheric Combined CDF (black: FRM, red: predicted)

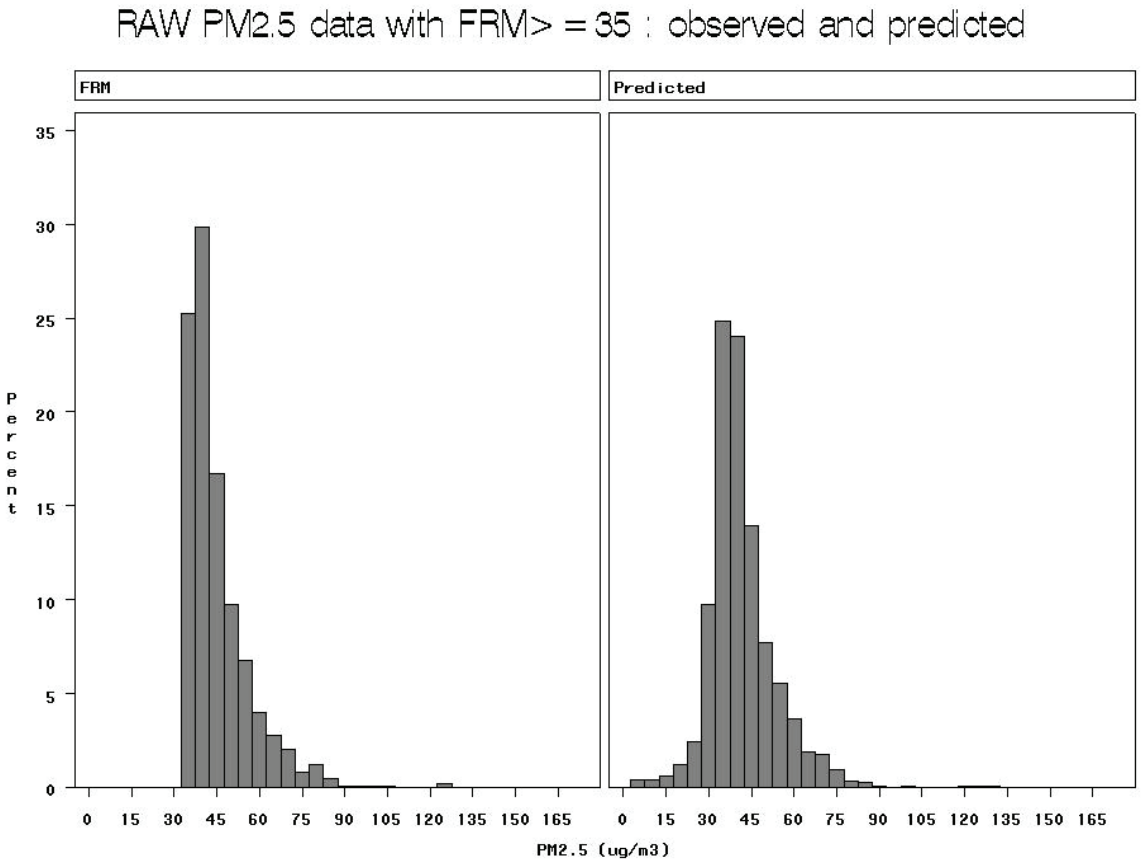

Figure 24. FRM ≥ 35 µg/m^3 Raw Combined Histogram

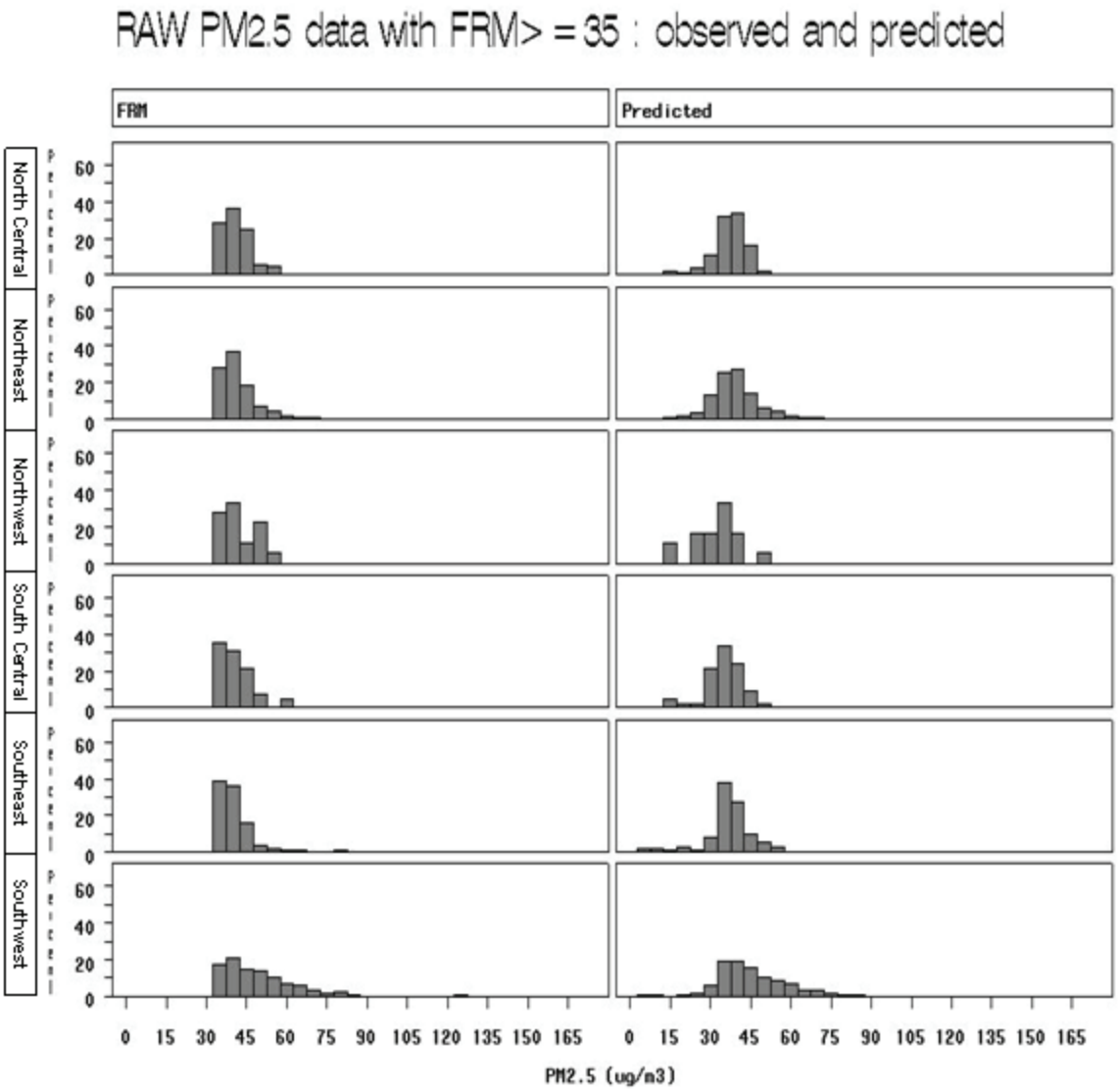

Figure 25. FRM ≥ 35 µg/m^3 Raw Regional Histogram

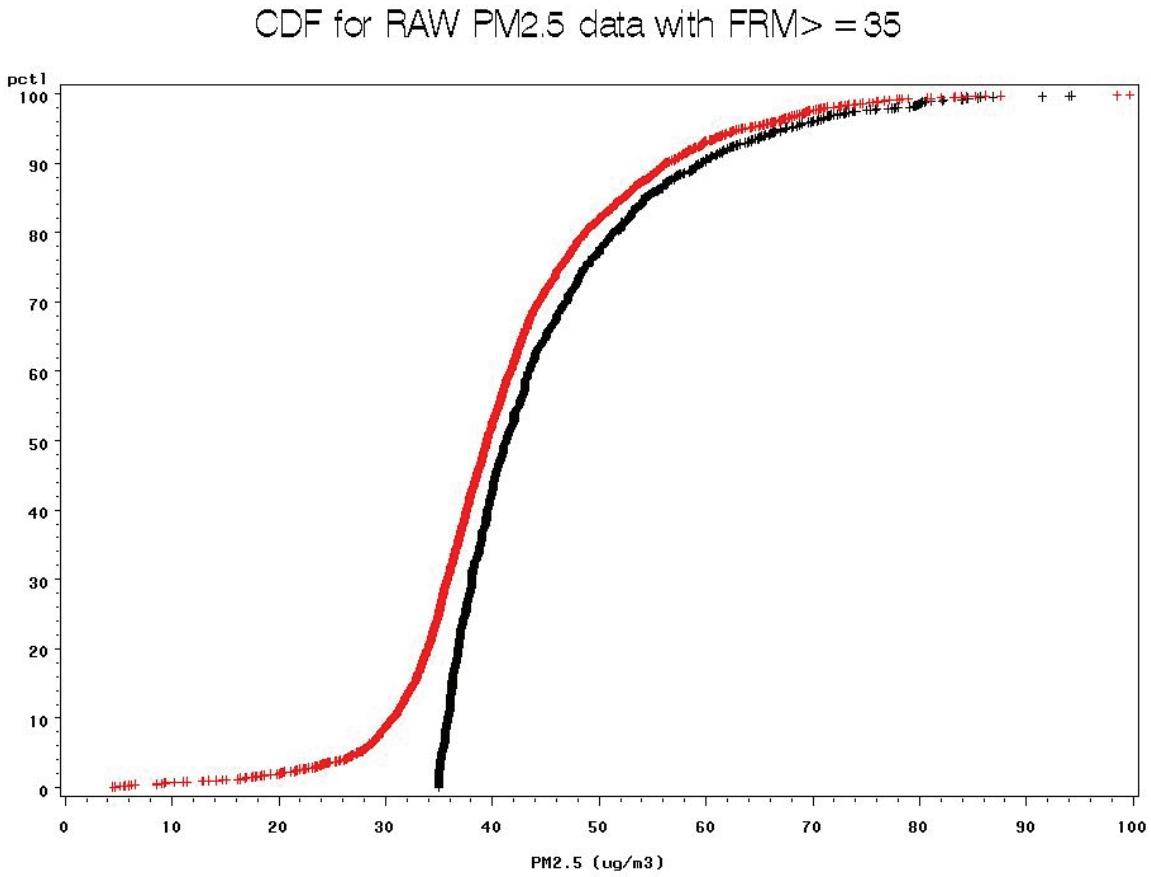

Figure 26. FRM ≥ 35 µg/m^3 Raw Combined CDF (black: FRM, red: predicted)

As Table 12b indicates, the regressions were better at correctly predicting an exceedance and did this very consistently across data types. The table indicates that approximately 85% of the time, a prediction of a level greater than or equal to 35 µg/m^3 was accompanied by an FRM value over this limit on that same day. For the cases where the predicted value was at or above 35 µg/m^3, Figures 27-29 (acceptable data), 30-32 (atmospheric data), and 33-35 (raw data) display histograms and CDFs corresponding to Figures 18-26. These figures and the corresponding sets of differences between predicted and measured FRM values are all very similar across the data types. Figures 28, 29 and 30 do not indicate noticeable differences among the regions (except, perhaps, for the northwest and south central raw data being subject to greater overprediction). The CDFs (Figures 29, 32, and 35) are much alike. As observed when focusing on the FRM value being above the standard, the cases when the predicted value was over the level led to some large differences that quickly decreased in magnitude. This is not surprising since, of course, there is a great deal of overlap with both the predicted and measured levels being above the standard. However, when keying on the prediction being in exceedance, the distribution of the differences was generally narrower. For example, the differences between the predicted and FRM value were within ~8 µg/m^3 in more than 90%, 80%, and 85% of the cases for the acceptable, atmospheric, and raw data, respectively.

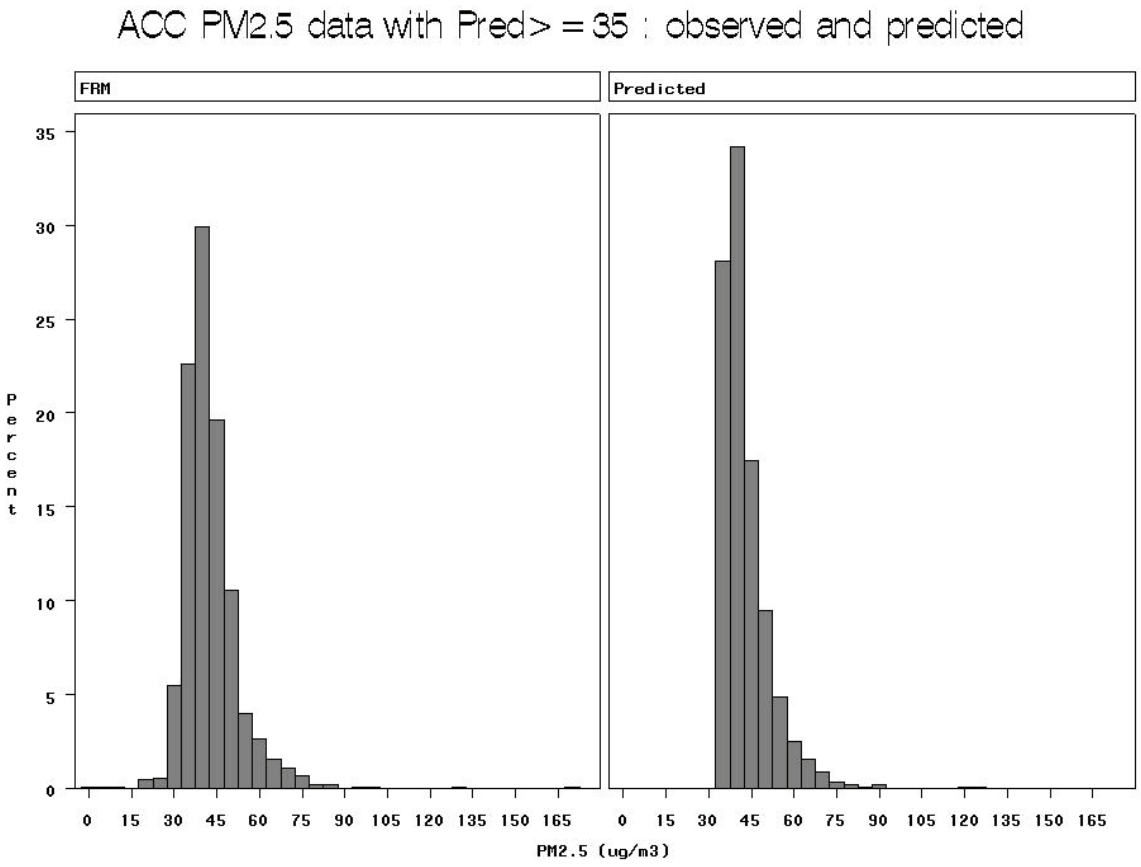

Figure 27. Pred ≥ 35 µg/m^3 Acceptable Combined Histogram

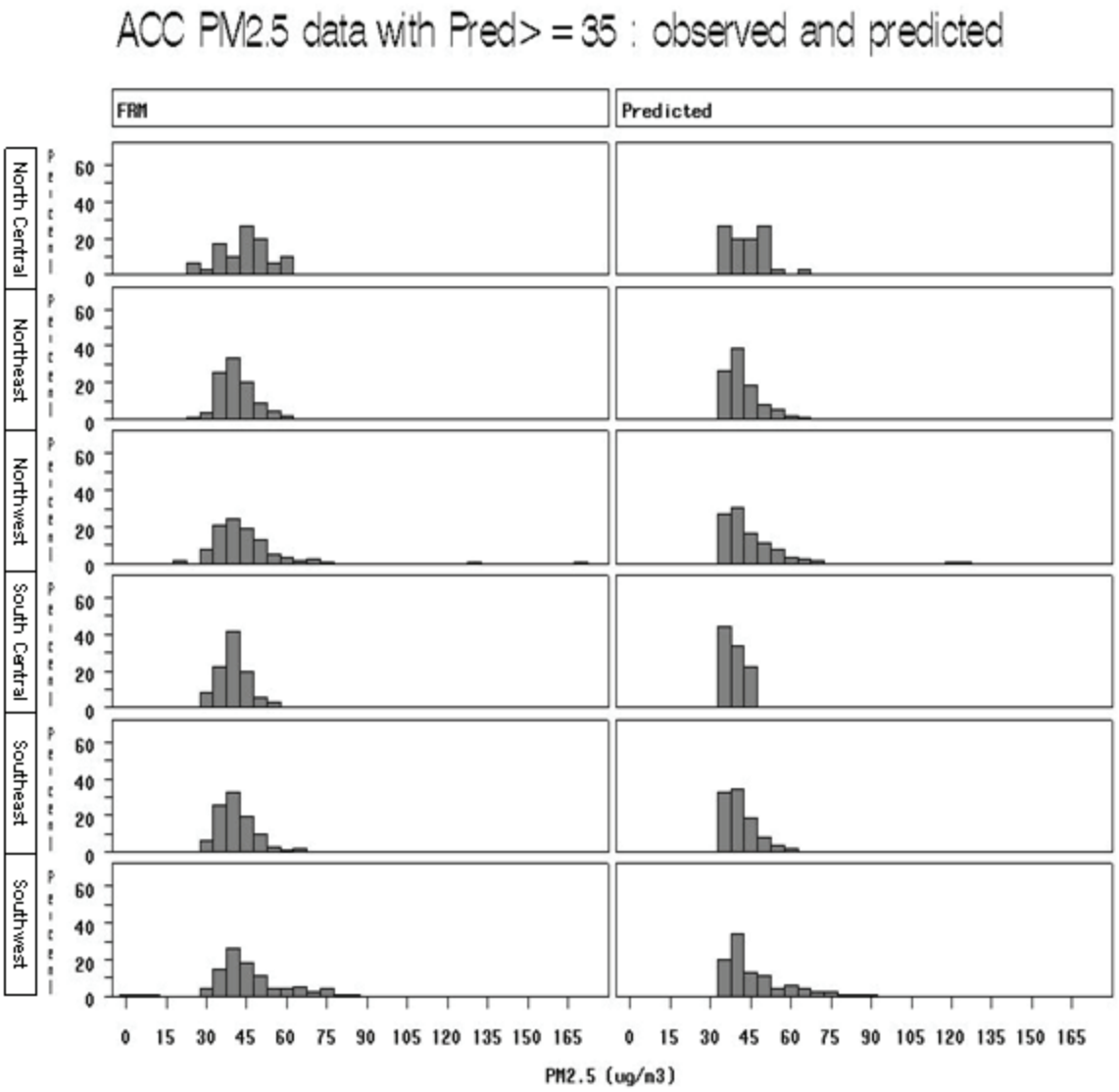

Figure 28. Pred ≥ 35 µg/m^3 Acceptable Regional Histogram

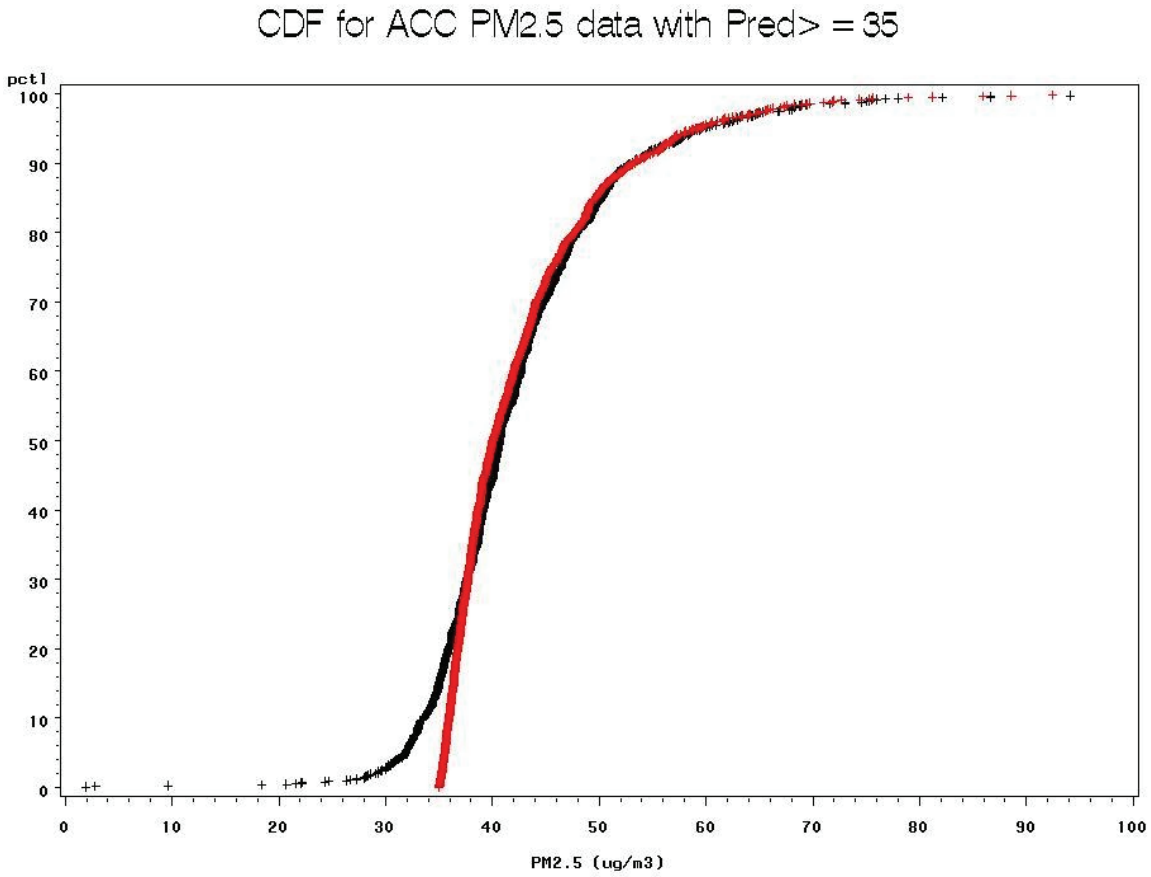

Figure 29. Pred ≥ 35 µg/m^3 Acceptable Combined CDF (black: FRM, red: predicted)

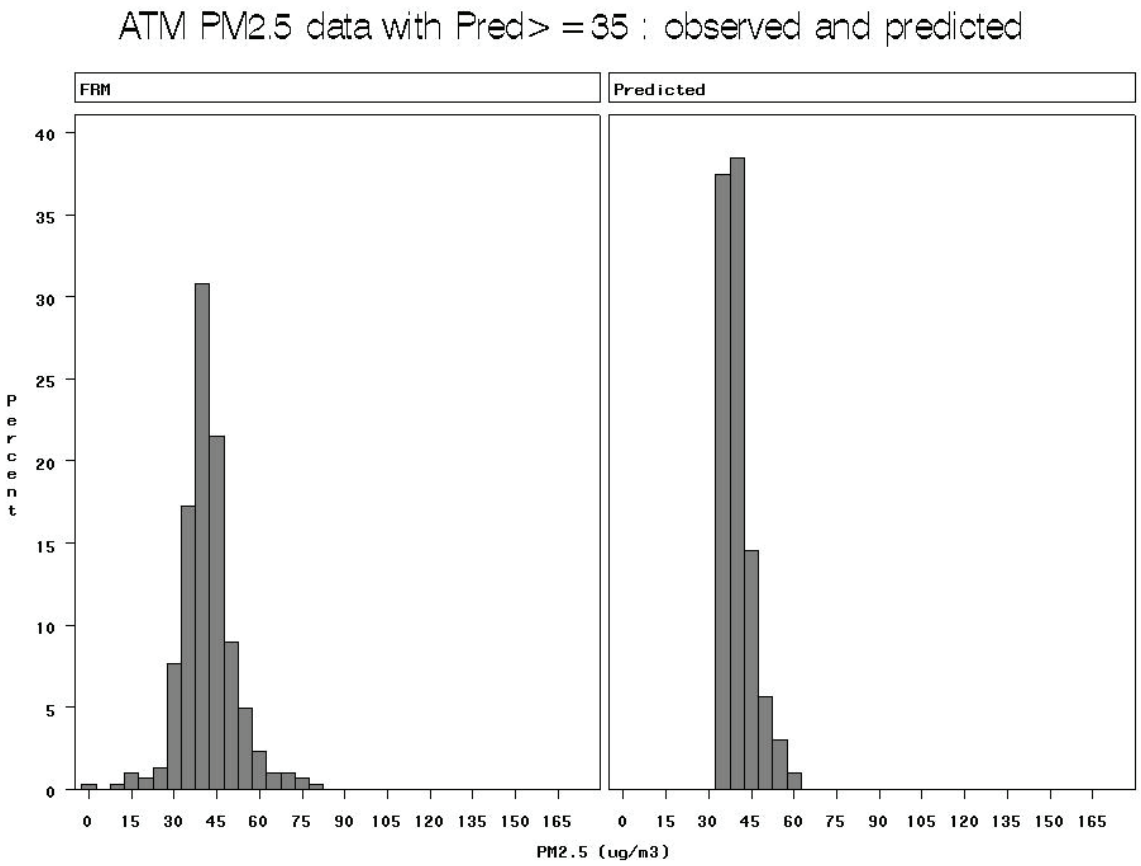

Figure 30. Pred ≥ 35 µg/m^3 Atmospheric Combined Histogram

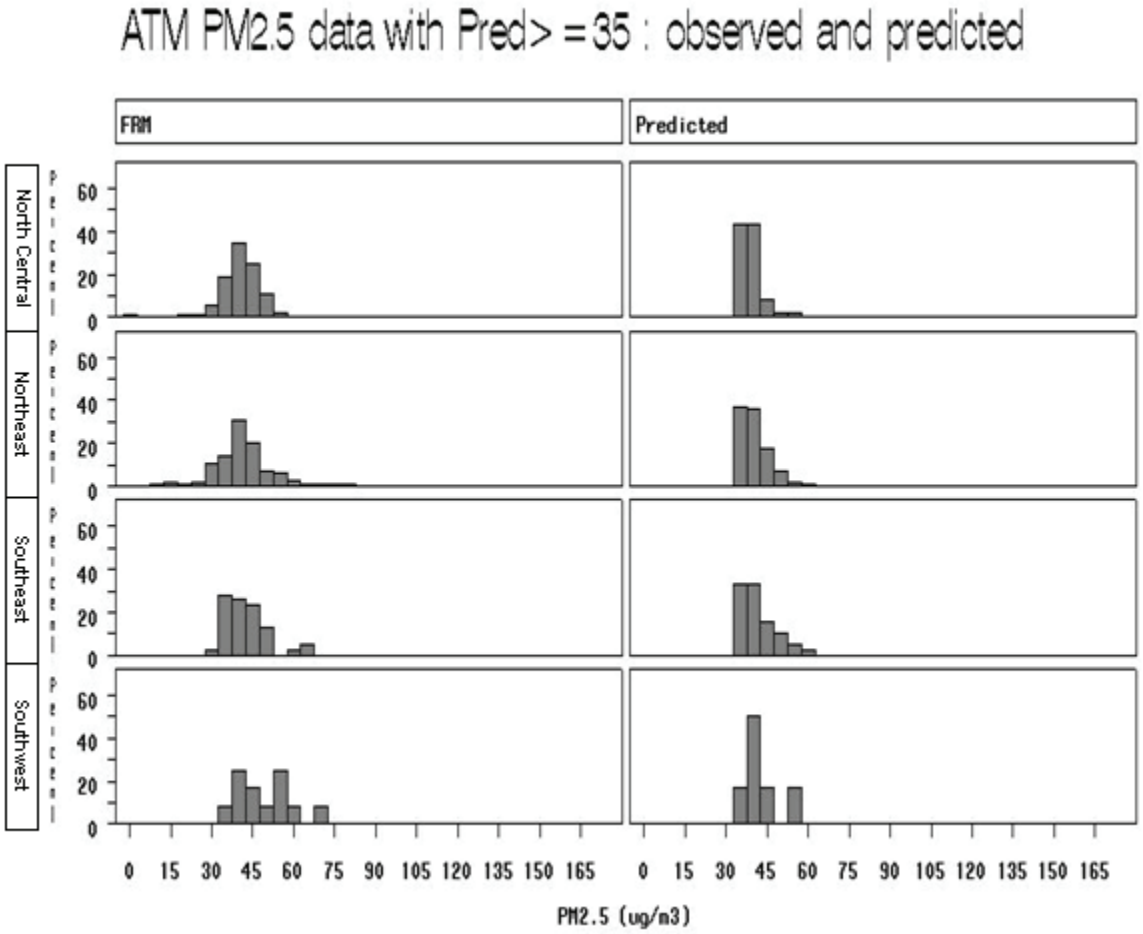

Figure 31. Pred ≥ 35 µg/m^3 Atmospheric Regional Histogram

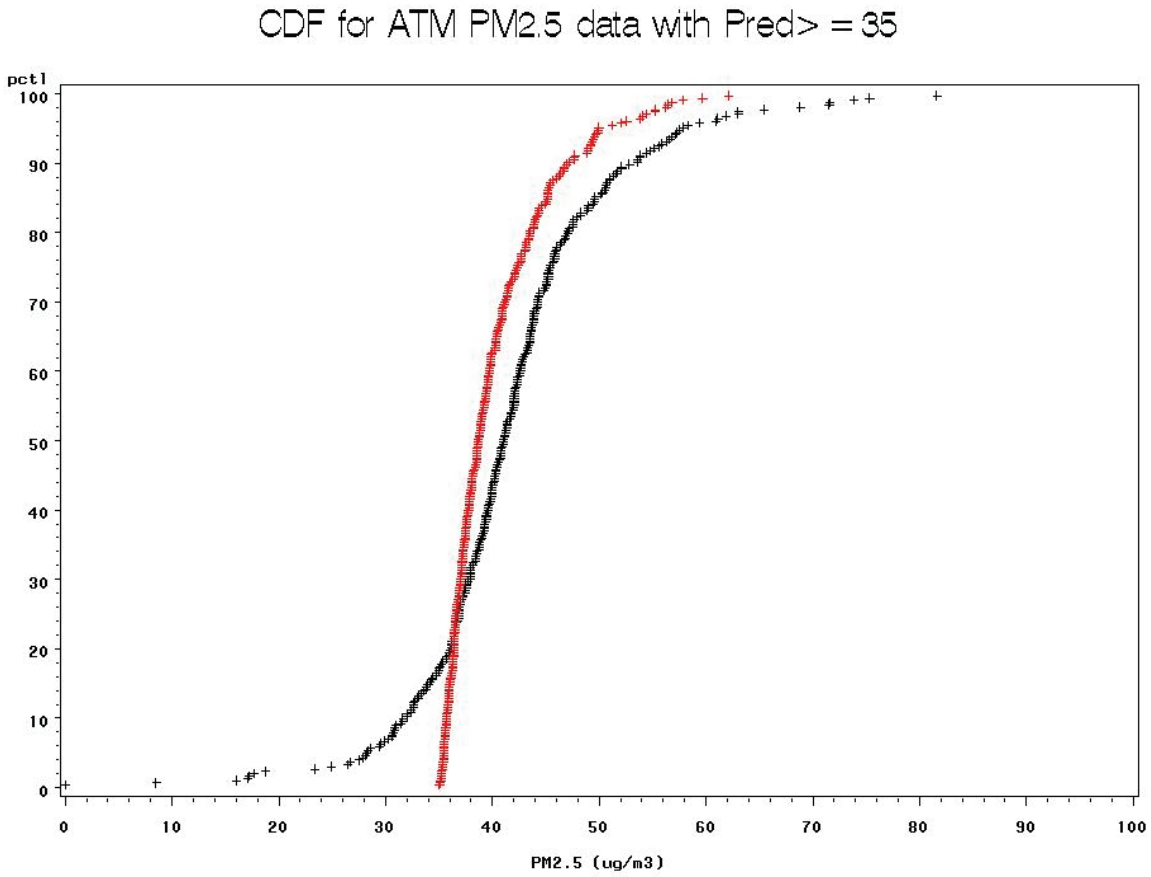

Figure 32. Pred ≥ 35 µg/m^3 Atmospheric Combined CDF (black: FRM, red: predicted)

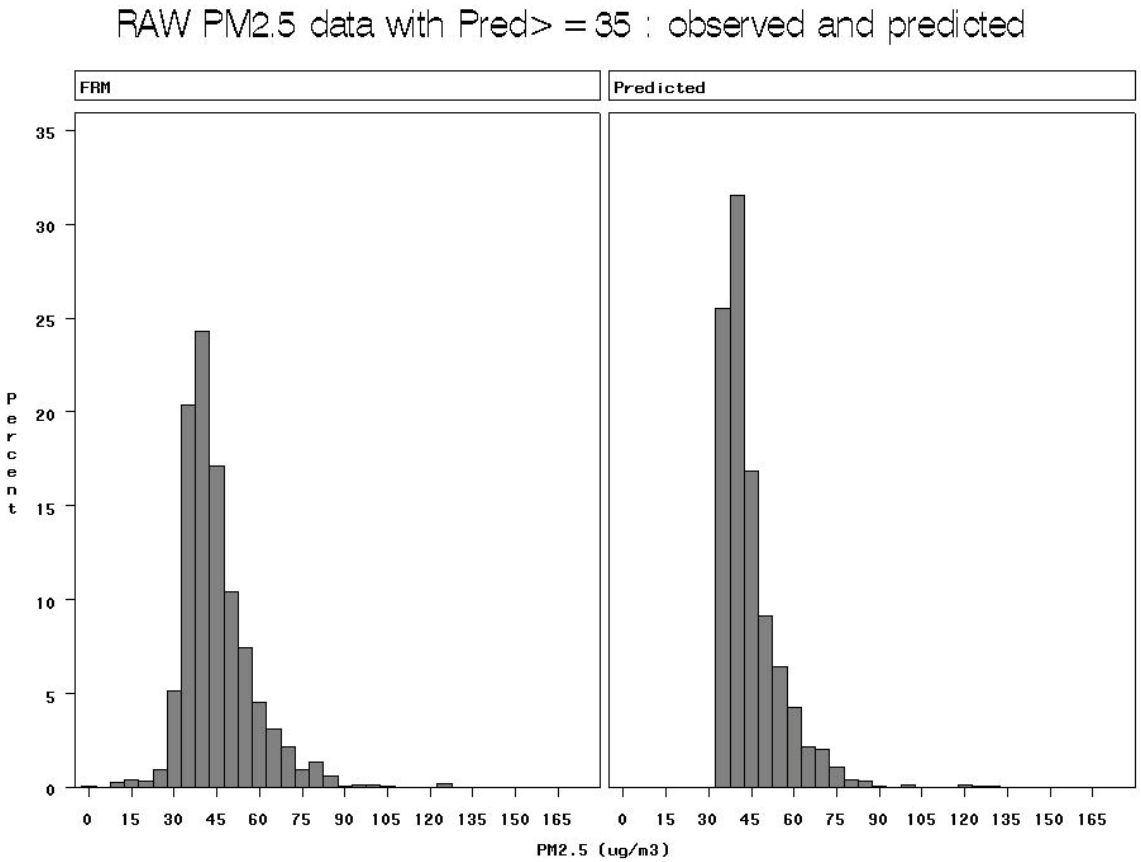

Figure 33. Pred ≥ 35 µg/m^3 Raw Combined Histogram

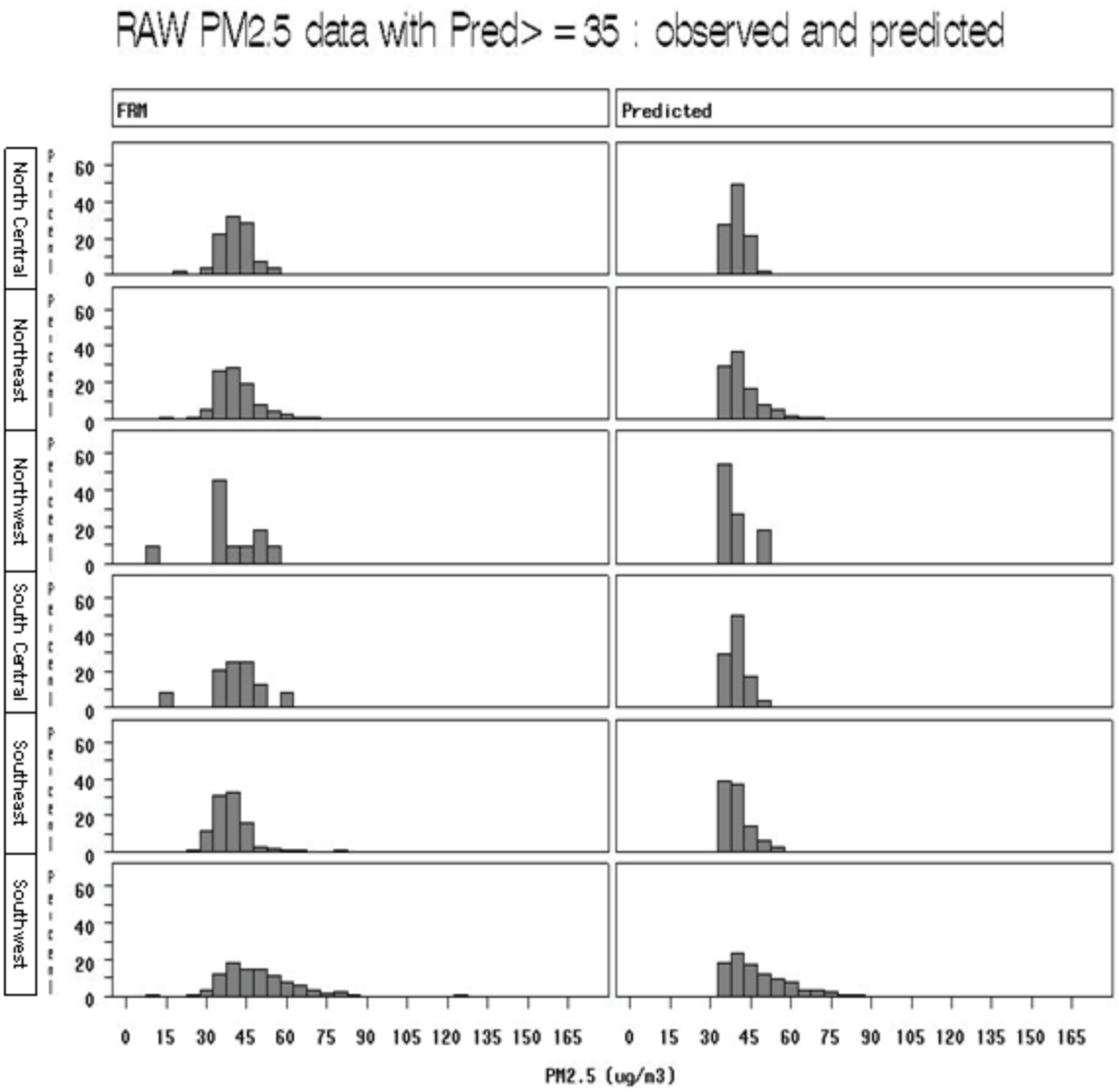

Figure 34. Pred ≥ 35 µg/m^3 Raw Regional Histogram

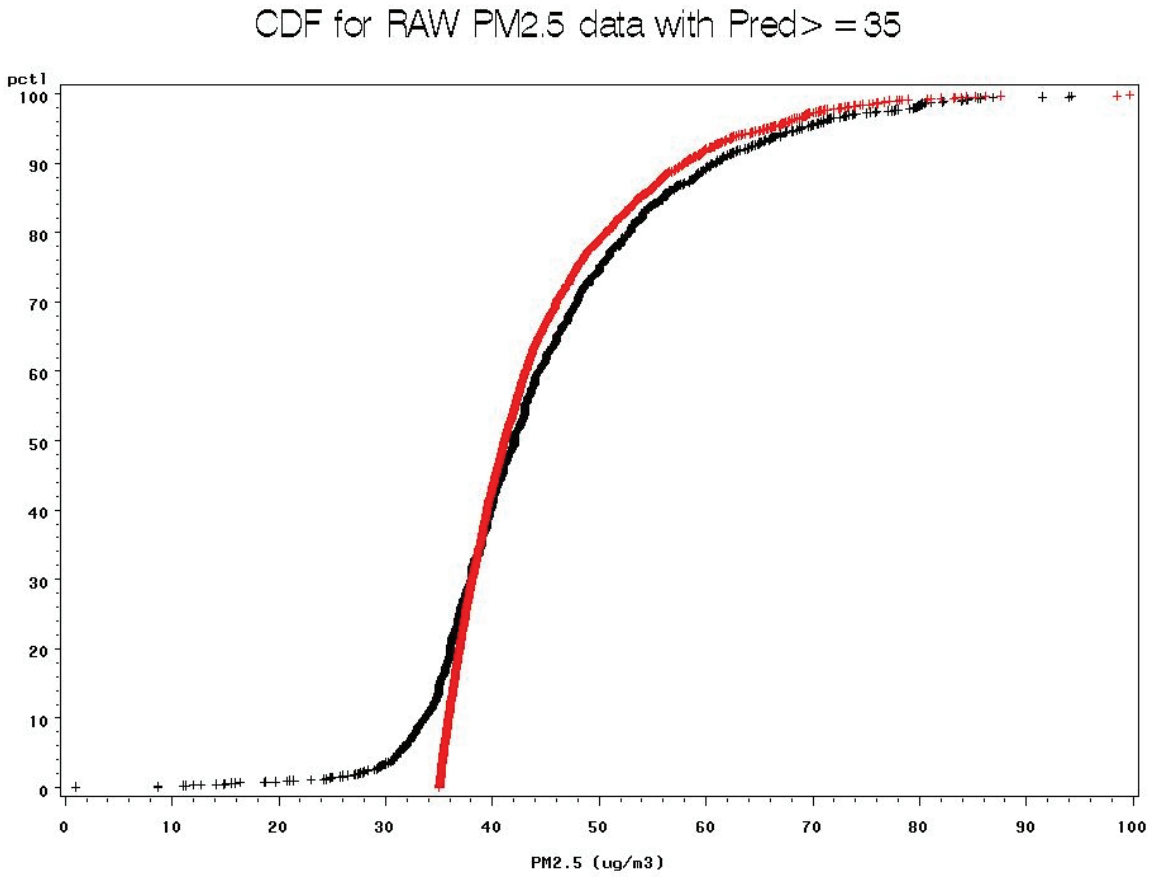

Figure 35. Pred ≥ 35 µg/m^3 Raw Combined CDF (black: FRM, red: predicted)

I. Future Areas of Exploration

The regressions over the entire range of the observations performed very well, but the results above do suggest some areas for which further investigation might be useful. For example, as indicated by the CDFs, the model for each data type had a general tendency to underpredict the FRM values, particularly at the higher pollutant levels. One might consider modifying the model to lessen this effect. The most obvious thing to consider in this regard would be to change the underlying basic model from a simple straight line to another functional form.

For example, one might add a quadratic term. With an intercept of 1.67 µg/m^3 and a slope of 0.60 and a lower (though still very respectable) R^2 of 82% for the atmospheric data type, one might expect this simple expedient to be most efficacious for this data type. A quadratic term might also prove useful for the raw data type with its relatively high slope estimate of 1.45, though an intercept of 0 and an R^2 value of 88% were obtained without this additional term. *A priori*, one might expect little improvement from a quadratic term for the acceptable data since the basic straight line model obtained an R^2 of 90%, estimated 0 for the intercept, and its slope of 0.90 was near 1 (albeit statistically significantly different from 1). One advantage of attempting this simple addition is that it can be easily and quickly evaluated based on the work already done.

One could envision changing the basic model more radically by assuming, for example, a nonlinear form such as a sigmoidal curve. However, as noted above, the straight line has performed quite well for the basic model, so caution is in order when considering major departures from it.

Another avenue of altering the model might prove more promising. The effects of the SC method, region, state, and season were all considered as separate effects in the model without any interaction between them. In addition to their individual effects on the basic model, one could consider introducing interactions between these categorical variables. For example, while state and season may both have a statistically significant effect on the prediction, it is also possible that they may have a joint state/season effect. In some situations, the relatively large numbers of levels of some of the variables (*e.g.*, method, state) might cause problems with the regression because of the resulting large number of parameters that would need to be estimated. However, given the large number of observations available here, the data base should support the introduction of interaction terms into the regressions. With the four categorical variables available, one could (theoretically) allow up to three-way interactions. (Since a state is nested within a region, one would avoid terms with a region/state interaction.) However, as has been emphasized, one is starting from a position of strength with the model that has already been developed. Therefore, introducing the five two-way interaction terms to "fine-tune" the model would be the starting point for such an approach.

Another option for model modification that might be considered is the introduction of additional variables. The most likely candidates for this role would be meteorological variables, such as temperature and humidity. While there would be a need to construct a suitable daily summary statistic for each weather variable (*e.g.*, mean temperature), incorporation of such variables into the existing model as covariates would be relatively straightforward. The sticking point with this suggestion is the question of whether such data are available at all sites; this is quite unlikely to be the case. In such instances, one could consider the substitution of data from the nearest available meteorological monitoring site, though this would run the risk of complicating the model with the question of error in the predictor variables. Approaches might be taken to mitigate this issue, but more care would be needed in taking this approach than some of the others mentioned above.

One of the major thrusts of any attempt to "fine-tune" the model would be to reduce the large overestimates and underestimates that were observed in the work reported above, while still retaining the models' generally good performance overall. Clearly, one would like to be able to utilize the predictions as substitutes for FRM data where such data are unavailable, but SC measurements are. Users of this model must understand that this is an initial attempt at a systematic correlation between FEM and FRM measurement values, and that the model must be applied in the proper context to ensure that proper consideration is given for how the model predictions are to be used. For example, $PM_{2.5}$ is of concern because of its potential effect(s) on human health. Consider the following hypothetical (incorrect) predictions by the model.

(1) The model predicts 20 $\mu g/m^3$ when the FRM value is 25 $\mu g/m^3$;

(2) The model predicts 33 $\mu g/m^3$ when the FRM value is 38 $\mu g/m^3$;

(3) The model predicts 20 $\mu g/m^3$ when the FRM value is 60 $\mu g/m^3$;

(4) The model predicts 60 $\mu g/m^3$ when the FRM value is 100 $\mu g/m^3$.

Now consider the three following health researchers' pollutant foci:

(a) The concern is total exposure to $PM_{2.5}$;

(b) The concern is the number of days with a level spent at or above the standard of 35 $\mu g/m^3$;

(c) The concern is exposure to $PM_{2.5}$, but only for levels at or above the standard of 35 $\mu g/m^3$.

For researcher (a), all of the incorrect predictions are of concern with 1 and 2 being of equal importance and 3 and 4 being more so (but equal between themselves). For researcher (b), only cases 2 and 3 matter. For researcher (c), cases 2, 3, and 4 are all of concern, but of differing importance. These different scenarios may lead to different approaches as to how to modify the model as discussed above. For example, it may be that one of the approaches works better at improving the model over the entire range of FRM values, whereas another method improves the model best in the upper reaches of the distribution. Thus, the ultimate choice for modification may depend upon how the predictions are to be employed. One might even consider more than one approach.

Another follow-up action that might be considered is to examine the residuals that are large in magnitude. If certain features that are characteristic of these large residuals can be determined, this might well be utilized in choosing how best to try and alter the model to improve it. It may also be of interest to make comparisons between the different levels of the categorical variables. This might be approached in at least two ways. One would be to ask questions like: Does method A have higher levels than method B? Or do levels appear higher in region X versus region Y? In fact, this was attempted as part of the analyses described above. As the regression results showed, most levels of the categorical variables had a significant effect on the results. Therefore, one would ideally like to make the comparisons between levels of one variable while adjusting for the effects of the other variables. This type of analysis was tried, but unfortunately the structure of the data rendered the differences inestimable. (Pairwise comparisons of level means based on unadjusted data were done. Virtually every one was statistically significant. However, given the large sample sizes reported in the appendices, this is not particularly surprising. In addition, the point just elucidated that these comparisons are compounded with other effects makes the results somewhat difficult to interpret.) More analysis is required to best determine how to develop an effective approach for comparing the different levels of the categorical variables.

The other method by which one might wish to compare the levels is the one reported above that compared corrected and non-corrected methods. Here it was not the means of the levels that were compared but their effects on the estimated intercept and slope. The comparison above is well-founded since the issue of multiple comparisons does not arise. However, in general, one might wish to attempt many pairwise comparisons, and the issue of multiple comparisons might impede interpretation of the results. Unless one is willing to restrict the comparisons to be done, multiple comparisons may be a concern. One could ignore the question, but only at the risk being unprotected against false positives. Otherwise, more research will be needed to conduct the slope and intercept effect comparisons.

Conclusion/Summary

The methodology developed in this report used to correlate $PM_{2.5}$ measurements from FEM (semi-continuous) monitors with measurements from FRM monitors examines the correlation based on four parameters applied to the analysis: **a)** geographic region; **b)** state; **c)** monitor method/type [parameter code]; and **d)** season. These four categorical parameters/variables are used to adjust the slope and intercept of the linear correlation equations relating FEM and FRM monitors used to measure ambient concentrations of $PM_{2.5}$. The correlations were segregated by monitor method/type [parameter code] as follows: **1)** Acceptable $PM_{2.5}$ AQI and Speciation Mass Data – parameter code 88502 (**ACC**); **2)** $PM_{2.5}$ Total Atmospheric Data – parameter code 88500 (**ATM**); and **3)** $PM_{2.5}$ Raw Data – parameter code 88501 (**RAW**).

The correlations were accomplished by comparing the measurements for FEM and FRM monitors which were collocated at the same sites. This was done for the years 2004 through 2007 (inclusive). The number of measurements captured in this analysis were as follows: **i)** 77,385 total measurement days of FEM monitors (parameter code 88502 – **ACC**) collocated with FRM monitors during the 2004 – 2007 time period; **ii)** 32,376 total measurement days of FEM monitors (parameter code 88500 – **ATM**) collocated with FRM monitors during the 2004 – 2007 time period; and **iii)** 99,372 total measurement days of FEM monitors (parameter code 88501 – **RAW**) collocated with FRM monitors during the 2004 – 2007 time period.

During the 2004 – 2007 analysis period, there were four states that had less than 100 total measurements/observations (of collocated FEM and FRM monitors): Iowa, Kansas, Oklahoma, and Wisconsin. This is reasonable since the number of semi-continuous monitors is small compared to the total number of FRM monitors (e.g., there were a total of only 522 semi-continuous monitors as of April 2005, which would reduce the occurrence of collocations with FRM) and the monitors are generally placed in locations where there are prior concerns about the local ambient $PM_{2.5}$ concentration. Autocorrelation of the analysis data does not appear to have an impact on the results since the following was discovered in the analysis: **a)** parameter code 88502 – **ACC** found 3 of 325 sites where autocorrelation was $> 80\%$ [representing 5% of the daily values] and 9 of 325 sites where autocorrelation was $> 70\%$ [representing 12% of the daily values]; **b)** parameter code 88500 – **ATM** found 0 of 83 sites where autocorrelation was $> 80\%$ and 1 of 83 sites where autocorrelation was $> 70\%$; and **c)** parameter code 88501 – **RAW** found 6 of 260 sites where autocorrelation was $> 80\%$ and 13 of 260 sites where autocorrelation was $> 70\%$.

As this is an initial attempt in developing a systematic approach to modeling the correlation between FEM and FRM monitors for $PM_{2.5}$, there are a number of refinements/considerations that can be implemented in future versions of (derivatives of) this methodology. With respect to the impact of meteorological parameters, this model used the 'season' parameter/categorical variable to represent the effects of meteorology. Previous correlation methodologies have specifically used temperature and humidity as factors in their analysis. Future efforts using this model could also use those two meteorological parameters to determine if 'season' as used in this analysis is a reasonable surrogate for temperature and

humidity. Further possible refinements of this model might want to consider the fact that operationally TEOM-FDMS (parameter code 88500) measurements are generally biased higher than FRM measurements because the TEOM-FDMS monitors capture the volatile component of $PM_{2.5}$. Additional analysis could be performed to determine how the addition of FEM monitors in future years impact the overall correlation results.

The major purpose of this report is to assist in generation of data for health studies that utilize FEM/semi-continuous monitor data, to express FEM monitor measurements as 'equivalent' FRM measurements. This will allow health scientists to use FEM monitors that are located in the areas of their studies (rather than using more distantly located FRM monitors as measurement surrogates) and correlate their ambient concentration levels of $PM_{2.5}$ to FRM values to assist in linking measured $PM_{2.5}$ levels to documented health outcomes. This research report also provides a template for further development of a methodology(ies) to correlate FEM and FRM measurements for $PM_{2.5}$ monitors.

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Appendix A

Table A1. FRM Geographic Information for 2004

AQS_ID	FRM_Method	State	County	Latitude	Longitude
010030010	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Baldwin	30.497778	-87.881389
010270001	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Clay	33.281111	-85.802222
010331002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Colbert	34.760556	-87.650556
010491003	R & P Model 2025 PM2.5 Sequential w/WINS	AL	De Kalb	34.2875	-85.968333
010530002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Escambia	31.106389	-87.071111
010550010	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Etowah	33.993611	-85.991111
010690002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Houston	31.228611	-85.375556
010730023	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.553056	-86.815
010730023	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.553056	-86.815
010731005	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.331111	-87.003611
010731009	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.459722	-87.305556
010731009	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.459722	-87.305556
010731010	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.545278	-86.549167
010731010	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.545278	-86.549167
010732003	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.499722	-86.924167
010732003	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.499722	-86.924167
010732006	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.386389	-86.816667
010735002	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.704722	-86.669167
010735003	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.801667	-86.9425
010890014	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Madison	34.68767	-86.58637
010970002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	AL	Mobile	30.7663	-88.0757
010970003	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Mobile	30.769722	-88.0875
010972005	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Mobile	30.474444	-88.141111
011010007	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Montgomery	32.425833	-86.285278
011030011	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Morgan	34.51861	-86.976944
011130001	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Russell	32.476389	-84.999167
011170006	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Shelby	33.312778	-86.821111
011190002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Sumter	32.363889	-88.201944
011210002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Talladega	33.279444	-86.349444
011250004	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Tuscaloosa	33.18903	-87.484206
011270002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Walker	33.832778	-87.2725
020200018	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Anchorage	61.206667	-149.82083
020900010	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Fairbanks North Star	64.841111	-147.72
021100004	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Juneau	58.388889	-134.56556
021700008	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Matanuska-Susitna	61.534163	-149.03166
022320001	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Skagway-Hoonah-Angoon	59.45315	-135.32125
022320002	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Skagway-Hoonah-Angoon	59.46008	-135.31053
040031005	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	AZ	Cochise	31.348759	-109.53861
040031005	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	AZ	Cochise	31.348759	-109.53861
040051008	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	AZ	Coconino	35.205988	-111.6528
040070008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	AZ	Gila	34.22934	-111.32942
040070008	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	AZ	Gila	34.22934	-111.32942
040130019	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	AZ	Maricopa	33.48385	-112.14257
040139990	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	AZ	Maricopa	33.391591	-111.92639
040139997	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	AZ	Maricopa	33.503643	-112.095
040190011	R & P Model 2025 PM2.5 Sequential w/WINS	AZ	Pima	32.32255	-111.0377
040191028	R & P Model 2025 PM2.5 Sequential w/WINS	AZ	Pima	32.29515	-110.9823
040210001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	AZ	Pinal	32.878611	-111.75167
040213002	R & P Model 2025 PM2.5 Sequential w/WINS	AZ	Pinal	33.421944	-111.5025

040213002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	AZ	Pinal	33.421944	-111.5025
040230004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	AZ	Santa Cruz	31.337204	-110.93672
050010011	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Arkansas	34.518392	-91.558826
050030005	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Ashley	33.139444	-91.95
050350004	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Crittenden	35.1475	-90.176389
050450002	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Faulkner	35.090833	-92.401667
050510003	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Garland	34.470732	-93.064585
050930007	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Mississippi	35.929167	-89.900833
051070001	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Phillips	34.528889	-90.585556
051130002	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Polk	34.585278	-94.226111
051150003	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Pope	35.292222	-93.139167
051190007	R & P Model 2025 PM2.5 Sequential w/WINS	AR	Pulaski	34.756111	-92.275833
051191004	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Pulaski	34.729167	-92.243333
051191005	R & P Model 2025 PM2.5 Sequential w/WINS	AR	Pulaski	34.676268	-92.337164
051310008	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Sebastian	35.388333	-94.411944
051390006	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Union	33.215	-92.668889
051430004	R & P Model 2025 PM2.5 Sequential w/WINS	AR	Washington	36.045751	-94.168978
051450001	R & P Model 2000 PM2.5 Sampler w/WINS	AR	White	35.248611	-91.715278
060010007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Alameda	37.6875	-121.7842
060011001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Alameda	37.5358	-121.9619
060070002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Butte	39.7575	-121.84222
060090001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Calaveras	38.201944	-120.68056
060111002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Colusa	39.203056	-122.01667
060111002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Colusa	39.203056	-122.01667
060130002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Contra Costa	37.936	-122.0262
060170011	R & P Model 2000 PM2.5 Sampler w/WINS	CA	El Dorado	38.945	-119.96889
060190008	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Fresno	36.781389	-119.77222
060195001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Fresno	36.819167	-119.71639
060195025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Fresno	36.727083	-119.73206
060231002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Humboldt	40.801666	-124.16194
060250005	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Imperial	32.676111	-115.48333
060250007	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Imperial	32.97835	-115.53829
060251003	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Imperial	32.791667	-115.56167
060271003	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Inyo	36.487778	-117.87056
060290010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kern	35.385556	-119.01472
060290011	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Kern	35.050556	-118.14639
060290014	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Kern	35.356111	-119.04028
060290014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kern	35.356111	-119.04028
060290015	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Kern	35.623889	-117.67722
060290016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kern	35.324722	-118.99917
060310004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kings	36.101389	-119.56583
060333001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Lake	39.031389	-122.92222
060370002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.1365	-117.92391
060371002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.17605	-118.31712
060371103	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.06659	-118.22688
060371201	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.19925	-118.53276
060371301	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	33.92899	-118.21071
060371601	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.01407	-118.06056
060372005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.1326	-118.1272
060374002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	33.82376	-118.18921
060374004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	33.79236	-118.17533
060379033	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.671389	-118.13056

060450006	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Mendocino	39.150556	-123.205
060472510	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Merced	37.309167	-120.48056
060510001	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Mono	37.648056	-118.97333
060531003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Monterey	36.69683	-121.63617
060570005	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Nevada	39.234444	-121.05556
060571001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Nevada	39.338611	-120.17028
060590007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Orange	33.83062	-117.93845
060592022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Orange	33.63003	-117.67593
060610006	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Placer	38.745833	-121.26528
060631006	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Plumas	39.937222	-120.93778
060631009	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Plumas	39.808333	-120.47167
060651003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.94603	-117.40063
060652002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.70853	-116.21537
060655001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.85275	-116.54101
060658001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.99958	-117.41601
060670006	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Sacramento	38.614167	-121.36694
060670010	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Sacramento	38.558333	-121.49194
060674001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Sacramento	38.555833	-121.45722
060710025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.037222	-117.69
060710306	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.51	-117.33056
060712002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.10002	-117.49201
060718001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.264444	-116.86444
060719004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.10688	-117.27411
060730001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.622778	-117.05611
060730003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.791389	-116.94167
060730006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.828333	-117.13333
060731002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	33.127778	-117.07417
060731007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.708889	-117.15278
060750005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Francisco	37.766	-122.3991
060771002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	San Joaquin	37.950833	-121.2675
060792002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	San Luis Obispo	35.283889	-120.65417
060798001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	San Luis Obispo	35.491389	-120.66806
060811001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Mateo	37.4829	-122.2034
060830011	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Santa Barbara	34.427776	-119.69028
060831008	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Santa Barbara	34.949167	-120.43667
060850005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Santa Clara	37.3485	-121.895
060852003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Santa Clara	37.3062	-121.8489
060870007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Santa Cruz	36.984	-121.9883
060890004	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Shasta	40.549722	-122.37917
060950004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Solano	38.1027	-122.2382
060970003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Sonoma	38.4435	-122.71
060990005	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Stanislaus	37.641667	-120.99361
061010003	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Sutter	39.138889	-121.6175
061072002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Tulare	36.332222	-119.29028
061072002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Tulare	36.332222	-119.29028
061110007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Ventura	34.21	-118.86944
061110009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Ventura	34.404611	-118.81
061112002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Ventura	34.2775	-118.68472
061113001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Ventura	34.255	-119.1425
061131003	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Yolo	38.661944	-121.72778
080010006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Adams	39.825739	-104.93699
080050005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Arapahoe	39.604406	-105.01952

080070001	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Archuleta	37.268056	-107.02111
080130003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Boulder	40.165833	-105.10111
080130012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Boulder	40.021104	-105.26335
080290004	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Delta	38.739167	-108.07278
080310002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Denver	39.751185	-104.98762
080310023	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Denver	39.778739	-104.95627
080390001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Elbert	39.231944	-104.63472
080410008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	El Paso	38.898056	-104.76139
080410011	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	El Paso	38.831389	-104.82778
080510005	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Gunnison	38.9	-106.9625
080690009	R & P Model 2025 PM2.5 Sequential w/WINS	CO	Larimer	40.571236	-105.08012
080690009	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Larimer	40.571236	-105.08012
080770017	R & P Model 2025 PM2.5 Sequential w/WINS	CO	Mesa	39.063625	-108.56102
080770017	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Mesa	39.063625	-108.56102
081010012	R & P Model 2025 PM2.5 Sequential w/WINS	CO	Pueblo	38.263611	-104.61222
081010012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Pueblo	38.263611	-104.61222
081070003	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Routt	40.485278	-106.83083
081130004	R & P Model 2000 PM2.5 Sampler w/WINS	CO	San Miguel	37.9375	-107.81167
081230006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Weld	40.414722	-104.70611
081230008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Weld	40.209167	-104.82306
090010010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.170833	-73.194722
090011123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.399167	-73.443056
090012124	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.063056	-73.528889
090013005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.1125	-73.407222
090019003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.118333	-73.336667
090031003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Hartford	41.784722	-72.631667
090031018	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Hartford	41.760833	-72.670833
090090018	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.293889	-72.901389
090090026	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.291111	-72.894167
090090027	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.301111	-72.902778
090091123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.310833	-72.916944
090092008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.331389	-72.919722
090092123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.550556	-73.043611
090098003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.277778	-72.964444
090113002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New London	41.524167	-72.076667
90113002	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	Kent	38.984722	-75.555556
100010002	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	Kent	39.155	-75.518056
100010003	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	New Castle	39.761111	-75.491944
100031003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DE	New Castle	39.551111	-75.730833
100031007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DE	New Castle	39.691944	-75.761667
100031012	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	New Castle	39.691944	-75.761667
100031012	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	New Castle	39.739444	-75.558056
100032004	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	Sussex	38.644444	-75.613056
100051002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DC	District Of Columbia	38.897222	-76.952778
110010041	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DC	District Of Columbia	38.880833	-77.0325
110010042	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DC	District Of Columbia	38.918889	-77.0125
110010043	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Alachua	29.703333	-82.391389
120010023	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Alachua	29.658333	-82.408333
120010024	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Bay	30.144167	-85.614444
120051004	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Brevard	28.053889	-80.628611
120090007	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Broward	26.082778	-80.237778
120111002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Broward	26.217222	-80.127778

120112004	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Broward	26.000833	-80.160556
120113002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Citrus	28.980556	-82.7
120170005	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Duval	30.135556	-81.634167
120310098	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Duval	30.355833	-81.548056
120310099	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Escambia	30.525	-87.204167
120330004	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Escambia	30.437	-87.256
120330025	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Escambia	30.55	-87.376
120330026	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Hillsborough	27.931944	-82.509722
120570030	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Hillsborough	27.96565	-82.2304
120573002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Lee	26.602778	-81.878889
120710005	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Leon	30.439722	-84.348333
120730012	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Manatee	27.480556	-82.618889
120814012	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Marion	29.170278	-82.100833
120830003	R & P Model 2025 PM2.5 Sequential w/WINS	FL		25.794167	-80.206111
120861016	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Miami-Dade	25.471389	-80.483333
120866001	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Orange	28.550833	-81.345556
120951004	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Orange	28.599444	-81.363056
120952002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Palm Beach	26.724444	-80.666667
120990008	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Palm Beach	26.731	-80.234
120990009	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Palm Beach	26.457778	-80.093057
120992005	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Pinellas	27.785556	-82.74
121030018	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Pinellas	27.985945	-82.782231
121031009	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Polk	28.029167	-81.972222
121056006	R & P Model 2025 PM2.5 Sequential w/WINS	FL	St Lucie	27.448889	-80.40833
121111002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Santa Rosa	30.408	-86.89
121130014	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Sarasota	27.290556	-82.5075
121150013	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Seminole	28.745556	-81.31
121171002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Volusia	29.206667	-81.053056
121275002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Bibb	32.777231	-83.641242
130210007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Bibb	32.805244	-83.543628
130210012	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Chatham	32.092778	-81.144167
130510017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Chatham	32.11058	-81.162024
130510091	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Clarke	33.945833	-83.372222
130590001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Clayton	33.609722	-84.391111
130630091	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Cobb	34.015346	-84.607484
130670003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Cobb	33.899182	-84.661589
130670004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	De Kalb	33.688007	-84.290325
130890002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	De Kalb	33.901251	-84.279989
130892001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Dougherty	31.576917	-84.100194
130950007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Floyd	34.263198	-85.304826
131150005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Fulton	33.819424	-84.389791
131210032	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Fulton	33.802189	-84.435658
131210039	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Glynn	31.16953	-81.496046
131270006	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Gwinnett	33.963074	-84.069193
131350002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Gwinnett	33.963074	-84.069193
131350002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Hall	34.300342	-83.8139
131390003	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Houston	32.6056	-83.597907
131530001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Houston	32.6056	-83.597907
131530001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Lowndes	30.848056	-83.294444
131850003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Lowndes	30.848056	-83.294444
131850003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Muscogee	32.483543	-84.980977
132150001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Muscogee	32.521099	-84.944695

132150008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Muscogee	32.521099	-84.944695
132150008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Muscogee	32.430944	-84.931818
132150011	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Paulding	33.92855	-85.04548
132230003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Richmond	33.469018	-81.991581
132450005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Richmond	33.433883	-82.022414
132450091	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Walker	34.966557	-85.297229
132950002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Walker	34.966557	-85.297229
132950002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Washington	32.974722	-82.808889
133030001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Washington	32.974722	-82.808889
133030001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Wilkinson	32.881667	-83.333889
133190001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Honolulu	21.329167	-158.09333
150030010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Honolulu	21.310278	-157.85806
150031001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Honolulu	21.305	-157.87333
150031004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Honolulu	21.396667	-157.97167
150032004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Maui	20.780997	-156.44637
150090006	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Ada	43.636111	-116.27028
160010011	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Ada	43.643167	-116.26476
160010021	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Bannock	42.876725	-112.46035
160050015	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Bannock	42.796463	-112.25812
160050018	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Benewah	47.316667	-116.57028
160090010	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ID	Benewah	47.338702	-116.88461
160090011	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Boise	44.104498	-115.97239
160150002	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Bonner	48.2675	-116.57222
160170005	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Bonneville	43.278833	-112.02278
160190011	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Bonneville	43.518267	-112.02071
160190013	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Boundary	48.70555	-116.36897
160210002	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Canyon	43.562401	-116.56323
160270004	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Canyon	43.5625	-116.56361
160270005	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Caribou	42.661298	-111.59144
160290003	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Franklin	42.013333	-111.80917
160410001	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Gem	43.856442	-116.51546
160450001	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Idaho	45.931389	-116.11528
160490002	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Idaho	46.2094	-116.0275
160490003	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Lemhi	45.170556	-113.89222
160590004	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Nez Perce	46.404722	-116.96889
160690012	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Power	42.9125	-112.53556
160770011	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Shoshone	47.536389	-116.23667
160790017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Adams	39.935025	-91.404232
170010006	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Champaign	40.125657	-88.229532
170190004	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Champaign	40.054198	-88.372552
170191001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.834243	-87.6238
170310014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.689195	-87.539318
170310022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.709561	-87.568576
170310050	R & P Model 2025 PM2.5 Sequential w/WINS	IL	Cook	41.967429	-87.749819
170310052	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.914733	-87.722725
170310057	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.751369	-87.713745
170310076	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.801111	-87.831944
170311016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.663997	-87.696468
170312001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.965278	-87.876389
170313103	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.782778	-87.805278
170313301	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	42.060278	-87.863333
170314007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	42.14	-87.799167

170314201	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.864257	-87.74888
170316005	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Du Page	41.771195	-88.152502
170434002	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Jersey	39.110312	-90.324168
170831001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Kane	42.050278	-88.280278
170890003	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Lake	42.467535	-87.810024
170971007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	La Salle	41.293125	-89.049242
170990007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Mc Henry	42.221421	-88.2421
171110001	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Mc Lean	40.515278	-88.995833
171132002	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Macon	39.866944	-88.925556
171150013	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Madison	38.69948	-90.143433
171190023	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Madison	38.704444	-90.139444
171191007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Madison	38.902778	-90.143056
171192009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Madison	38.860645	-90.105754
171193007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Peoria	40.698886	-89.584741
171430037	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Randolph	38.178	-89.788455
171570001	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Rock Island	41.514722	-90.517222
171613002	R & P Model 2000 PM2.5 Sampler w/WINS	IL	St Clair	38.612222	-90.160278
171630010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	St Clair	38.529444	-89.993056
171634001	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Sangamon	39.833792	-89.644167
171670012	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Will	41.526667	-88.116389
171971002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Will	41.221592	-88.190948
171971011	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Winnebago	42.267222	-89.089444
172010010	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Allen	41.094722	-85.101944
180030004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Allen	41.050556	-85.149722
180030014	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Clark	38.277675	-85.740153
180190006	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Delaware	40.201111	-85.388056
180350006	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Dubois	38.391389	-86.929167
180372001	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Elkhart	41.667778	-85.969444
180390003	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Floyd	38.308056	-85.834167
180431004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Henry	40.011667	-85.523611
180650003	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Howard	40.485556	-86.132778
180670003	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Knox	38.740833	-87.484722
180830004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.636111	-87.440833
180890006	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.606667	-87.304722
180890022	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.573056	-87.405833
180890026	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.546667	-87.426389
180890027	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.588889	-87.407778
180891003	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.585278	-87.474444
180892004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.678333	-87.508333
180892010	R & P Model 2025 PM2.5 Sequential w/WINS	IN	La Porte	41.706944	-86.891111
180910011	R & P Model 2025 PM2.5 Sequential w/WINS	IN	La Porte	41.602222	-86.730278
180910012	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Madison	40.111944	-85.68
180950009	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.646254	-86.248784
180970042	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.744957	-86.166496
180970043	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.760437	-86.108848
180970066	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.811097	-86.114469
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.893611	-86.040556
180970079	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.788903	-86.214628
180970081	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.774944	-86.122053
180970083	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Porter	41.631389	-87.086944
181270020	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Porter	41.6175	-87.199167
181270024	R & P Model 2025 PM2.5 Sequential w/WINS	IN	St Joseph	41.663333	-86.207778

181410014	R & P Model 2025 PM2.5 Sequential w/WINS	IN	St Joseph	41.693611	-86.236667
181411008	R & P Model 2025 PM2.5 Sequential w/WINS	IN	St Joseph	41.694444	-86.2875
181412004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Spencer	38.1675	-86.983333
181470009	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Tippecanoe	40.431639	-86.8525
181570008	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vanderburgh	37.971667	-87.567222
181630006	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vanderburgh	38.021667	-87.569444
181630012	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vanderburgh	37.974444	-87.532222
181630016	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vigo	39.486111	-87.401389
181670018	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vigo	39.456111	-87.370556
181670023	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Black Hawk	42.493056	-92.343889
190130008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Cerro Gordo	43.161667	-93.208333
190330019	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Cerro Gordo	43.160434	-93.203006
190330020	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Clinton	41.874972	-90.177444
190450021	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Emmet	43.3975	-94.817222
190630003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Johnson	41.657361	-91.503472
191032001	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Linn	42.008333	-91.678611
191130037	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Montgomery	40.971211	-95.043868
191370002	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Muscatine	41.400833	-91.067778
191390015	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Polk	41.603132	-93.643234
191530030	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Polk	41.603479	-93.747821
191532510	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Polk	41.664722	-93.614167
191532520	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Pottawattamie	41.264167	-95.895833
191550009	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Scott	41.53	-90.5875
191630015	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Scott	41.55	-90.6
191630018	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Van Buren	40.689167	-91.994444
191770005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Van Buren	40.695078	-92.006318
191770006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Woodbury	42.517222	-96.386389
191930017	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Wright	42.695387	-93.655982
191970004	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Johnson	38.974444	-94.686944
200910007	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Johnson	38.863056	-94.768889
200910009	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Johnson	38.83859	-94.74643
200910010	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Linn	38.135833	-94.731944
201070002	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Sedgwick	37.659722	-97.297222
201730008	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Sedgwick	37.651111	-97.362222
201730009	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Sedgwick	37.701111	-97.313889
201730010	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Shawnee	39.04	-95.691667
201770010	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Shawnee	39.021389	-95.748333
201770011	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Sumner	37.476944	-97.366389
201910002	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Wyandotte	39.1175	-94.635556
202090021	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Wyandotte	39.045833	-94.694444
202090022	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Bell	36.608056	-83.736944
210130002	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Boyd	38.459167	-82.640556
210190017	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Bullitt	37.985556	-85.713056
210290006	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Campbell	39.065556	-84.451944
210370003	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Carter	38.238333	-82.988333
210430500	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Christian	36.911667	-87.323611
210470006	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Daviess	37.741111	-87.118056
210590014	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Edmonson	37.131389	-86.148056
210610501	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Fayette	38.065	-84.5
210670012	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Fayette	38.038889	-84.5075
210670014	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Franklin	38.219361	-84.8385
210730006	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Hardin	37.706389	-85.851667

210930006	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Henderson	37.871389	-87.463333
211010014	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Jefferson	38.233222	-85.825278
211110043	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Jefferson	38.190833	-85.780556
211110044	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Jefferson	38.240556	-85.731667
211110048	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Jefferson	38.060833	-85.896111
211110051	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Kenton	39.0725	-84.525
211170007	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Laurel	37.087222	-84.063333
211250004	R & P Model 2025 PM2.5 Sequential w/WINS	KY	McCracken	37.065556	-88.637778
211451004	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Madison	37.738056	-84.285556
211510003	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Perry	37.283056	-83.220278
211930003	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Pike	37.482778	-82.535278
211950002	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Warren	36.993333	-86.418333
212270007	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Caddo	32.478333	-93.765833
220171002	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Calcasieu	30.227778	-93.578333
220190009	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Calcasieu	30.177143	-93.214514
220190010	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Concordia	31.574236	-91.455236
220290003	R & P Model 2025 PM2.5 Sequential w/WINS	LA	East Baton Rouge	30.461111	-91.176944
220330009	R & P Model 2025 PM2.5 Sequential w/WINS	LA	East Baton Rouge	30.587222	-91.206944
220331001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Iberville	30.217778	-91.060556
220470005	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Iberville	30.220556	-91.316111
220470009	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Jefferson	30.043333	-90.275
220511001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Jefferson	29.883056	-90.083333
220512001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Lafayette	30.2175	-92.051389
220550005	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Lafayette	30.274833	-92.0172
220550006	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Orleans	29.9555	-90.12166
220710010	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Orleans	29.994444	-90.102778
220710012	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Ouachita	32.509713	-92.046093
220730004	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Rapides	31.177638	-92.410611
220790002	R & P Model 2025 PM2.5 Sequential w/WINS	LA	St Bernard	29.941667	-89.933333
220870004	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Tangipahoa	30.503056	-90.376944
221050001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Terrebonne	29.678883	-90.779967
221090001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	West Baton Rouge	30.501944	-91.209722
221210001	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Androscoggin	44.089444	-70.215
230010011	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Aroostook	47.355	-68.322778
230030013	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Aroostook	46.682222	-68.016111
230031011	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Cumberland	43.678056	-70.256667
230050015	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Cumberland	43.661944	-70.265833
230050027	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Hancock	44.37705	-68.2609
230090103	R & P Model 2000 PM2.5 Sampler w/WINS	ME	Kennebec	44.312222	-69.786389
230110016	R & P Model 2000 PM2.5 Sampler w/WINS	ME	Kennebec	44.549167	-69.630833
230112002	R & P Model 2000 PM2.5 Sampler w/WINS	ME	Oxford	44.550833	-70.548333
230172011	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Penobscot	44.798849	-68.769745
230190002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Anne Arundel	38.9025	-76.653056
240030014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Anne Arundel	39.101111	-76.729444
240030019	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Anne Arundel	39.169533	-76.627933
240031003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Anne Arundel	39.159722	-76.511667
240032002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore	39.460833	-76.631111
240051007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore	39.310833	-76.474444
240053001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Cecil	39.701111	-75.86
240150003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Harford	39.41	-76.296667
240251001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Montgomery	39.114444	-77.106944
240313001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Prince Georges	39.02	-76.827778

240330002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Prince Georges	39.055277	-76.878333
240330030	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Prince Georges	38.81194	-76.74417
240338003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Washington	39.565556	-77.721944
240430009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.340556	-76.582222
245100006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.344444	-76.685278
245100007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.28768	-76.547616
245100008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.232778	-76.579722
245100035	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.298056	-76.604722
245100040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.261667	-76.6375
245100049	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Berkshire	42.451667	-73.255
250035001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Bristol	41.6857	-71.1698
250051004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Essex	42.474444	-70.9725
250092006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Essex	42.762778	-71.105833
250095005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Essex	42.698611	-71.165833
250096001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Hampden	42.19446	-72.555711
250130008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Hampden	42.108889	-72.591389
250130016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Hampden	42.106	-72.597585
250132009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Plymouth	42.079722	-71.015278
250230004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Suffolk	42.348933	-71.097733
250250002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Suffolk	42.372928	-71.063311
250250027	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Suffolk	42.329444	-71.082778
250250042	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Suffolk	42.362778	-71.054167
250250043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Worcester	42.259167	-71.799167
250270016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Worcester	42.265802	-71.794835
250270023	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Allegan	42.767778	-86.148611
260050003	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Bay	43.571389	-83.890833
260170014	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Berrien	42.197778	-86.309722
260210014	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Chippewa	46.493611	-84.364167
260330901	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Chippewa	46.481667	-84.331667
260330902	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Genesee	43.04722	-83.670278
260490021	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Ingham	42.738611	-84.534722
260650012	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Kalamazoo	42.278056	-85.541944
260770008	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Kent	42.984167	-85.671389
260810020	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Macomb	42.731389	-82.793611
260990009	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Missaukee	44.310556	-84.891944
261130001	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Monroe	41.763889	-83.471944
261150005	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Muskegon	43.233056	-86.238611
261210040	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Oakland	42.463056	-83.183333
261250001	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Ottawa	42.894444	-85.852778
261390005	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Saginaw	43.508333	-83.968056
261450018	R & P Model 2025 PM2.5 Sequential w/WINS	MI	St Clair	42.953333	-82.456389
261470005	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Washtenaw	42.293889	-83.711111
261610005	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Washtenaw	42.240556	-83.599722
261610008	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.228611	-83.208333
261630001	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.302778	-83.106667
261630015	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.3578	-83.09617
261630016	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.430833	-83.000278
261630019	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.423055	-83.426389
261630025	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.306666	-83.148889
261630033	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.18728	-83.15404
261630036	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.335	-83.1097
261630038	R & P Model 2000 PM2.5 Sampler w/WINS	MN	Cass	47.159942	-94.150987

270210001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Dakota	44.740751	-93.237293
270370470	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	45.001229	-93.267117
270530050	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.87753	-93.25882
270530961	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.955396	-93.25827
270530963	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.888551	-93.195377
270530964	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	45.004478	-93.240046
270530965	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.893005	-93.233227
270530968	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	45.041815	-93.298729
270531007	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.950047	-93.342874
270532006	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Mille Lacs	46.207026	-93.759411
270953051	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Olmsted	43.996908	-92.450366
271095008	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Ramsey	44.899379	-93.017155
271230866	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Ramsey	44.952442	-93.098475
271230868	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Ramsey	44.961451	-93.035894
271230871	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	St Louis	47.523355	-92.536305
271377001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	St Louis	46.820199	-92.08941
271377550	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	St Louis	46.766667	-92.133056
271377551	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Scott	44.791437	-93.512534
271390505	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Stearns	45.549839	-94.13345
271453052	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Adams	31.560389	-91.39025
280010004	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Bolivar	33.746056	-90.723028
280110001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	De Soto	34.82166	-89.98783
280330002	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Forrest	31.323639	-89.287167
280350004	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Hancock	30.230167	-89.567444
280450001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Harrison	30.390139	-89.049722
280470008	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Hinds	32.385583	-90.140917
280490010	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Hinds	32.296806	-90.188306
280490018	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Jackson	30.378194	-88.533944
280590006	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Jones	31.688444	-89.135056
280670002	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Lauderdale	32.364389	-88.731444
280750003	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Lee	34.264917	-88.766222
280810005	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Lowndes	33.490972	-88.418528
280870001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Pearl River	30.5295	-89.691056
281090001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Rankin	32.275528	-90.132528
281210001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Scott	32.32	-89.666667
281230001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Warren	32.322833	-90.887111
281490004	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Boone	38.956389	-92.321667
290190004	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Buchanan	39.741667	-94.858333
290210005	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Buchanan	39.755278	-94.845556
290210010	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Cass	38.770278	-94.58
290370003	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Cedar	37.695833	-94.0375
290390001	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Clay	39.303056	-94.376389
290470005	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Clay	39.148611	-94.565
290470026	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Greene	37.205278	-93.283333
290770032	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Jackson	39.036	-94.5741
290950010	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Jackson	39.104722	-94.570556
290950034	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Jackson	39.10944	-94.44
290950041	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Jasper	37.21	-94.307778
290970003	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Jefferson	38.437778	-90.361389
290990012	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Maries	38.274083	-91.701611
291250001	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Mercer	40.56	-93.418333
291290001	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Monroe	39.473056	-91.789167

291370001	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Charles	38.8725	-90.226389
291831002	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Ste Genevieve	37.967222	-90.051111
291860006	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis	38.5325	-90.382778
291890004	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis	38.649722	-90.350556
291892003	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis City	38.5425	-90.263611
295100007	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis City	38.6563	-90.1981
295100085	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis City	38.672222	-90.238889
295100086	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis City	38.642444	-90.185583
295100087	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Cascade	47.502222	-111.27889
300131026	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Flathead	48.399722	-114.33361
300290009	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Flathead	48.2025	-114.30556
300290047	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Gallatin	45.772778	-111.1775
300310008	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Gallatin	44.657778	-111.09083
300310013	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MT	Lake	47.526944	-114.10056
300470013	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MT	Lake	47.692222	-114.16222
300470028	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Lewis And Clark	46.603889	-112.03528
300490018	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Lewis And Clark	46.954475	-112.69674
300490019	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Lincoln	48.384167	-115.54806
300530018	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Missoula	46.881288	-113.88474
300630012	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Missoula	47.1771	-113.4827
300630021	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Missoula	46.874912	-113.99525
300630031	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Ravalli	46.244444	-114.15722
300810001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MT	Rosebud	45.623333	-106.66806
300870307	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Sanders	47.596389	-115.32361
300890007	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Silver Bow	46.0025	-112.5
300930005	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Yellowstone	45.801944	-108.42611
301111065	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Cass	40.865556	-96.146667
310250002	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Douglas	41.247222	-95.975556
310550019	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Douglas	41.386111	-96.115833
310550051	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Douglas	41.333056	-96.099722
310550052	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Hall	40.925	-98.339444
310790003	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Hall	40.942099	-98.364967
310790004	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Lancaster	40.81259	-96.68302
311090022	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Lincoln	41.136111	-100.76444
311111002	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Sarpy	41.133613	-95.955835
311530007	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Scotts Bluff	41.865	-103.66444
311570003	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Washington	41.551136	-96.146753
311770002		NV	Clark	36.245278	-115.09222
320030020	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.390775	-114.90681
320030022		NV	Clark	36.173056	-115.33167
320030073	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.052222	-115.05694
320030298		NV	Clark	36.052222	-115.05694
320030298		NV	Clark	36.144444	-115.08556
320030539	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.158611	-115.11083
320030560	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.163994	-115.11393
320030561		NV	Clark	35.978889	-114.84417
320030601	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	35.785634	-115.35706
320031019	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.191111	-115.12222
320032002		NV	Clark	36.191111	-115.12222
320032002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Washoe	39.525083	-119.80772
320310016	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Belknap	43.565278	-71.495833
330012004	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Cheshire	42.930556	-72.277778

330050007	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Coos	44.471111	-71.166667
330070014	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Grafton	44.083889	-72.01
330090008	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Hillsborough	43.000556	-71.468056
330110020	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Hillsborough	42.701944	-71.445
330111010	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Hillsborough	42.861901	-71.878613
330115001	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Merrimack	43.132444	-71.45827
330131006	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Rockingham	43.075278	-70.748056
330150014	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Sullivan	43.364444	-72.338333
330190003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Atlantic	39.362641	-74.429345
340011006	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Bergen	40.851667	-73.973333
340030003	R & P Model 2000 PM2.5 Sampler w/WINS	NJ	Camden	39.92304	-75.09762
340070003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Camden	39.92304	-75.09762
340070003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Camden	39.98888	-75.049167
340071007	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Essex	40.731944	-74.205278
340130015	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Gloucester	39.825833	-75.289444
340155001	R & P Model 2000 PM2.5 Sampler w/WINS	NJ	Hudson	40.72545	-74.05229
340171003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Hudson	40.72545	-74.05229
340171003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Mercer	40.222222	-74.763611
340210008	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Mercer	40.3124	-74.8726
340218001	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Middlesex	40.47279	-74.42251
340230006	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Morris	40.803056	-74.483333
340270004	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Morris	40.78763	-74.6763
340273001	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Ocean	39.995	-74.165833
340292002	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Passaic	40.918611	-74.167778
340310005	R & P Model 2000 PM2.5 Sampler w/WINS	NJ	Union	40.64144	-74.20836
340390004	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Union	40.64144	-74.20836
340390004	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Union	40.673056	-74.213611
340390006	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Union	40.60607	-74.27498
340392003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Warren	40.687222	-75.181389
340410006	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Bernalillo	35.13426	-106.58551
350010023	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Bernalillo	35.0631	-106.57879
350010024	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Bernalillo	34.9031	-106.7
350019013	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Chaves	33.396944	-104.52361
350050005	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Dona Ana	31.795833	-106.5575
350130017	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Dona Ana	32.321944	-106.76778
350130025	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Grant	32.784444	-108.27167
350171002	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Lea	32.724722	-103.12861
350250007	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Sandoval	35.238056	-106.64944
350431003	R & P Model 2000 PM2.5 Sampler w/WINS	NM	Sandoval	35.615278	-106.72444
350439004	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Sandoval	35.5064	-106.7222
350439011	R & P Model 2025 PM2.5 Sequential w/WINS	NM	San Juan	36.7275	-108.22083
350450006	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Santa Fe	35.671111	-105.95361
350490020	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Albany	42.6424	-73.75453
360010005	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Bronx	40.83608	-73.92021
360050080	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Bronx	40.86586	-73.88075
360050083	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Bronx	40.81616	-73.90207
360050110	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Chautauqua	42.29073	-79.58658
360130011	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Erie	42.87684	-78.80988
360290005	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Erie	42.82728	-78.84989
360291007	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Essex	44.39309	-73.85892
360310003	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Kings	40.7198	-73.94788
360470122	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Monroe	43.146198	-77.54813

360551007	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Monroe	43.161	-77.60357
360556001	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Nassau	40.63102	-73.73479
360590008	R & P Model 2025 PM2.5 Sequential w/WINS	NY	New York	40.75917	-73.96651
360610056	R & P Model 2025 PM2.5 Sequential w/WINS	NY	New York	40.72052	-74.00409
360610062	R & P Model 2025 PM2.5 Sequential w/WINS	NY	New York	40.79937	-73.93334
360610079	R & P Model 2025 PM2.5 Sequential w/WINS	NY	New York	40.73003	-73.98446
360610128	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Niagara	43.08216	-79.00099
360632008	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Onondaga	43.05238	-76.0592
360671015	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Orange	41.49947	-74.00973
360710002	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Queens	40.7362	-73.82317
360810124	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Richmond	40.63302	-74.13713
360850055	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Richmond	40.59733	-74.12619
360850067	R & P Model 2025 PM2.5 Sequential w/WINS	NY	St Lawrence	44.67778	-74.94999
360893001	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Steuben	42.09071	-77.21025
361010003	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Suffolk	40.745833	-73.420278
361030001	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Westchester	40.93006	-73.76924
361191002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Alamance	36.089004	-79.407821
370010002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Buncombe	35.609722	-82.350833
370210034	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Cabarrus	35.506944	-80.618056
370250004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Caswell	36.307033	-79.467417
370330001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Catawba	35.728889	-81.365556
370350004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Catawba	35.7278	-81.3425
370350006	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Chatham	35.757222	-79.159722
370370004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Cumberland	35.041416	-78.953112
370510009	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Davidson	35.814444	-80.2625
370570002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Davidson	35.77881	-80.30236
370570003	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Davidson	35.84119	-80.24452
370570004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Duplin	34.954823	-77.960781
370610002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Durham	35.991944	-78.896389
370630001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Edgecombe	35.93355	-77.75007
370650004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Forsyth	36.110556	-80.226667
370670022	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Forsyth	36.171389	-80.281944
370670024	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Gaston	35.253056	-81.153333
370710016	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Guilford	36.109167	-79.801111
370810013	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Haywood	35.489167	-82.9875
370870010	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Jackson	35.466667	-83.278056
370990006	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Lenoir	35.231459	-77.568792
371070004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mc Dowell	35.687404	-81.993789
371110004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Martin	35.81069	-76.89782
371170001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mecklenburg	35.225278	-80.882778
371190010	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mecklenburg	35.240278	-80.785556
371190041	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mecklenburg	35.151389	-80.866944
371190042	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mitchell	35.915278	-82.073333
371210001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Montgomery	35.26	-79.84
371230001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	New Hanover	34.364167	-77.838611
371290002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Onslow	34.772828	-77.42796
371330005	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Orange	35.901944	-79.056667
371350007	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Pitt	35.594167	-77.386111
371470005	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Robeson	34.6425	-78.990278
371550005	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Swain	35.435509	-83.443697
371730002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Wake	35.856111	-78.574167
371830014	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Watauga	36.221944	-81.663056

371890003	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Wayne	35.369214	-77.993893
371910005	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	Billings	46.8943	-103.37853
380070002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	Burke	48.9904	-102.7815
380130002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	Burke	48.876553	-102.56842
380130003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	ND	Burleigh	46.825425	-100.76821
380150003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	ND	Cass	46.933754	-96.85535
380171004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	McKenzie	47.5812	-103.2995
380530002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	Mercer	47.298611	-101.76694
380570004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Athens	39.4425	-81.908611
390090003	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	OH	Butler	39.493611	-84.353889
390170003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Butler	39.493611	-84.353889
390170003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Butler	39.338333	-84.566389
390170016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Butler	39.525	-84.369444
390170017	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	OH	Butler	39.53	-84.3925
390171004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Clark	39.928889	-83.809722
390230005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.4775	-81.703056
390350027	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.555	-81.575
390350034	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.476944	-81.681944
390350038	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.471667	-81.657222
390350045	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.493955	-81.678542
390350060	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.446389	-81.661944
390350065	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.462778	-81.580278
390350066	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.395556	-81.818056
390351002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Franklin	39.998333	-82.993056
390490024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Franklin	39.928056	-82.981111
390490025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Franklin	40.087778	-82.959722
390490081	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Greene	39.808056	-83.886944
390570005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.194167	-84.478889
390610014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.128611	-84.504167
390610040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.185967	-84.513719
390610041	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.105	-84.551111
390610042	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.290278	-84.414444
390610043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.16	-84.457778
390617001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.180278	-84.491944
390618001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Jefferson	40.366104	-80.615002
390810017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Jefferson	40.321944	-80.606389
390811001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lake	41.755	-81.273056
390851001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lawrence	38.519722	-82.665556
390870010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lorain	41.439444	-82.161667
390930016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lorain	41.463056	-82.114444
390933002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lucas	41.644167	-83.546667
390950024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lucas	41.661944	-83.479444
390950025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lucas	41.620556	-83.641389
390950026	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Mahoning	41.111111	-80.645278
390990005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Mahoning	41.095868	-80.658426
390990014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Montgomery	39.759444	-84.144444
391130031	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Montgomery	39.760278	-84.187778
391130032	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Portage	41.164167	-81.235
391330002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Preble	39.835556	-84.720833
391351001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Scioto	38.754167	-82.9175
391450013	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Stark	40.786667	-81.394444
391510017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Stark	40.800556	-81.373333

391510020	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Summit	41.063333	-81.468611
391530017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Summit	41.088056	-81.541667
391530023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Trumbull	41.214167	-80.7875
391550007	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Caddo	35.111944	-98.252778
400159008	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Canadian	35.613044	-97.99325
400179001	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Carter	34.166667	-97.126389
400190295	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Cherokee	35.855	-94.986111
400219002	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Garfield	36.420278	-97.886944
400470554	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Kay	36.705328	-97.087656
400710602	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Kay	36.662778	-97.074444
400719003	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Kay	36.956731	-97.034369
400719010	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Lincoln	35.6725	-96.657222
400819005	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Mayes	36.304624	-95.310616
400970186	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Mayes	36.2284	-95.25
400979014	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Muskogee	35.755273	-95.377669
401010169	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Oklahoma	35.47292	-97.52709
401090035	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Oklahoma	35.614131	-97.475083
401091037	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Ottawa	36.922222	-94.838889
401159004	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Pittsburg	34.90227	-95.784375
401210415	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Seminole	35.129722	-96.490556
401339006	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Sequoyah	35.58175	-94.829
401359015	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Tulsa	36.14004	-95.925382
401430110	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Tulsa	36.204902	-95.976537
401431127	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Columbia	45.768056	-122.77194
410090004	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Deschutes	44.063904	-121.31258
410170120	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Jackson	42.314078	-122.87924
410290133	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Jackson	42.536111	-122.875
410291001	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Jackson	42.332222	-122.87972
410292129	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Jackson	42.426389	-122.85083
410294001	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Josephine	42.434139	-123.34849
410330114	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Klamath	42.188889	-121.7225
410350004	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Lane	44.026312	-123.08374
410390060	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Lane	43.833898	-123.03498
410391007	R & P Model 2000 PM2.5 Sampler w/WINS	OR	Lane	44.046696	-123.0177
410391009	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Lane	43.744352	-122.48052
410392013	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Linn	44.615648	-123.0916
410430009	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Multnomah	45.496667	-122.60222
410510080	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Multnomah	45.561301	-122.67878
410510246	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Union	45.338972	-117.9048
410610119	R & P Model 2000 PM2.5 Sampler w/WINS	OR	Wasco	45.602399	-121.20335
410650007	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Washington	45.4702	-122.81585
410670111	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Washington	45.518294	-122.96705
410671003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Adams	39.92	-77.31
420010001	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.465556	-79.961111
420030008	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.413611	-79.941389
420030021	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.323611	-79.868333
420030064	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.381944	-80.185556
420030067	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.607222	-80.020833
420030093	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.486944	-80.188056
420030095	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.473611	-80.077222
420030116	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.260129	-79.886498
420030133	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.618611	-79.727222

420031008	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.4025	-79.860278
420031301	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.294444	-79.886667
420033007	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.546944	-79.783889
420039002	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Beaver	40.747778	-80.316667
420070014	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Berks	40.320278	-75.926667
420110009	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Bucks	40.107222	-74.882222
420170012	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Cambria	40.309722	-78.915
420210011	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Centre	40.811389	-77.877028
420270100	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Chester	39.834444	-75.768611
420290100	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Cumberland	40.246528	-77.18675
420410101	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Dauphin	40.245	-76.844722
420430401	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Delaware	39.835556	-75.3725
420450002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Erie	42.14175	-80.038611
420490003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Lackawanna	41.442778	-75.623056
420692006	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Lancaster	40.046667	-76.283333
420710007	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Lehigh	40.611944	-75.4325
420770004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Luzerne	41.265556	-75.846389
420791101	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Mercer	41.215	-80.485
420850100	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Montgomery	40.112222	-75.309167
420910013	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Northampton	40.628056	-75.341111
420950025	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Perry	40.456944	-77.165556
420990301	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PA	Philadelphia	40.008889	-75.097778
421010004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	40.008889	-75.097778
421010004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	40.05	-75.240556
421010014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	40.002222	-75.220278
421010020	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	40.076389	-75.011944
421010024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	39.944722	-75.166111
421010047	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	39.9275	-75.222778
421010136	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Washington	40.146667	-79.902222
421250005	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Washington	40.170556	-80.261389
421250200	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Washington	40.445278	-80.420833
421255001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Westmoreland	40.304694	-79.505667
421290008	R & P Model 2025 PM2.5 Sequential w/WINS	PA	York	39.965278	-76.699444
421330008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Kent	41.6156	-71.7199
440030002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Providence	41.807949	-71.415
440070022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Providence	41.874655	-71.379944
440070026	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Providence	41.80933	-71.40743
440070028	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Providence	41.84092	-71.36094
440071010	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Aiken	33.342226	-81.788731
450030003	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Beaufort	32.436539	-80.677854
450130007	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Berkeley	33.19698	-79.976767
450150005	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Charleston	32.980254	-80.06501
450190048	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Charleston	32.790984	-79.958694
450190049	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Chesterfield	34.615367	-80.198787
450250001	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Edgefield	33.741693	-81.853633
450370001	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Florence	34.167636	-79.850404
450410002	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Georgetown	33.373994	-79.285697
450430009	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.838814	-82.402914
450450008	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.901046	-82.31307
450450009	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenwood	34.214556	-82.173146
450470003	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Horry	33.702771	-78.877478
450510002	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Lexington	34.052805	-81.15495

450630008	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Oconee	34.805261	-83.2377
450730001	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Orangeburg	33.529881	-80.866837
450750002	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Richland	34.093959	-80.962304
450790007	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Richland	33.993299	-81.024141
450790019	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Spartanburg	34.926839	-82.00521
450830010	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Brookings	44.310283	-96.80071
460110002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Brown	45.4625	-98.486111
460130003	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Codington	44.89965	-97.128802
460290002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Jackson	43.74561	-101.94122
460710001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Meade	44.155636	-103.31577
460930001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Minnehaha	43.544289	-96.726435
460990006	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Minnehaha	43.537626	-96.682001
460990007	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Pennington	44.083489	-103.2696
461030013	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Pennington	44.064932	-103.20914
461030016	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Pennington	44.087397	-103.27378
461030020	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Pennington	44.080295	-103.22855
461031001	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Blount	35.768333	-83.942222
470090011	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Davidson	36.176326	-86.738902
470370023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Davidson	36.1	-86.734444
470370025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Davidson	36.118251	-86.873547
470370036	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Dyer	36.052778	-89.381944
470450004	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Hamilton	34.990944	-85.22875
470650031	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Hamilton	35.233527	-85.181806
470651011	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Hamilton	35.050928	-85.292975
470654002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Knox	35.943611	-84.038889
470930028	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Knox	35.98055	-83.93277
470931013	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Knox	35.975	-83.954444
470931017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Knox	36.01944	-83.87361
470931020	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Lawrence	35.116111	-87.47
470990002	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Loudon	35.7447	-84.3174
471050108	R & P Model 2025 PM2.5 Sequential w/WINS	TN	McMinn	35.451111	-84.599167
471071002	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Madison	35.653651	-88.809084
471130006	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Maury	35.643611	-87.013056
471192007	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Montgomery	36.514444	-87.327778
471251009	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Putnam	36.173611	-85.509444
471410001	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Roane	35.9386	-84.5438
471450004	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Shelby	35.085833	-89.949444
471570014	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Shelby	35.184167	-89.930278
471570038	R & P Model 2000 PM2.5 Sampler w/WINS	TN	Shelby	35.16895	-90.021567
471570047	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Shelby	35.16895	-90.021567
471570047	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Shelby	35.377222	-89.832222
471571004	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Sullivan	36.540654	-82.521667
471631007	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Sumner	36.297778	-86.652778
471650007	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Bowie	33.425757	-94.070807
480370004	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Brewster	30.3658	-103.6491
480430002	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Brewster	29.3025	-103.16782
480430101	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Cameron	26.135172	-97.630039
480612002	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Dallas	32.916667	-96.768611
481130035	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.916667	-96.768611
481130035	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Dallas	32.774167	-96.797778
481130050	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.774167	-96.797778
481130050	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Dallas	32.7789	-96.873056

481130057	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.7789	-96.873056
481130057	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.819952	-96.860082
481130069	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Dallas	32.6766	-96.8716
481130087	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.6766	-96.8716
481130087	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Dallas	32.7106	-96.8033
481133004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.7106	-96.8033
481133004	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Ector	31.826578	-102.34198
481350003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Ellis	32.436944	-97.025
481390015	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	El Paso	31.758516	-106.50105
481410053	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Galveston	29.263319	-94.856568
481670014	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Galveston	29.263319	-94.856568
481670014	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Gregg	32.37871	-94.711833
481830001	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Harris	29.901111	-95.326944
482010024	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.901111	-95.326944
482010024	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Harris	29.8025	-95.12555
482010026	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.8025	-95.12555
482010026	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Harris	29.695736	-95.499236
482010055	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.695736	-95.499236
482010055	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.770686	-95.031215
482010058	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.767993	-95.220576
482011034	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Harris	29.733713	-95.257591
482011035	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.733713	-95.257591
482011035	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Harrison	32.669003	-94.167449
482030002	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Hidalgo	26.309858	-98.183101
482150042	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Hidalgo	26.226238	-98.291064
482150043	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Jeff Davis	30.66938	-104.02463
482430004	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Jefferson	29.922778	-93.908889
482450021	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Jefferson	29.922778	-93.908889
482450021	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Jefferson	29.863951	-94.317757
482450022	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Kaufman	32.569167	-96.315833
482570005	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Kleberg	27.42694	-97.29861
482730314	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Lubbock	33.590851	-101.84759
483030001	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Montgomery	30.3503	-95.425135
483390078	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Montgomery	30.3503	-95.425135
483390078	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Nueces	27.8044	-97.4317
483550032	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Nueces	27.8118	-97.465633
483550034	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Orange	30.084444	-93.761667
483611001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Orange	30.084444	-93.761667
483611001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Orange	30.194167	-93.866944
483611100	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Potter	35.209963	-101.83192
483750005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Tarrant	32.805	-97.356389
484391002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Tarrant	32.758889	-97.342222
484391006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Tarrant	32.693056	-97.248611
484393006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Box Elder	41.492778	-112.01806
490030003	R & P Model 2000 PM2.5 Sampler w/WINS	UT	Box Elder	41.94595	-112.23318
490037001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Cache	41.731111	-111.8375
490050004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Cache	41.8594	-111.8952
490050005	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Cache	41.63546	-111.86819
490050006	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Davis	40.902967	-111.88447
490110004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.646667	-111.84972
490350003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.8075	-111.92111
490350012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.708611	-112.09472

490351001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.736389	-111.87222
490353006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.704444	-111.96861
490353007	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.517946	-112.02305
490353008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Utah	40.253611	-111.66306
490490002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Utah	40.341389	-111.71361
490494001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Utah	40.430278	-111.80389
490495008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Utah	40.136389	-111.65972
490495010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Weber	41.206389	-111.97472
490570002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Weber	41.179722	-111.98306
490570007	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Weber	41.303683	-111.98707
490571003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Addison	43.926516	-73.384638
500010002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Addison	43.867686	-73.356172
500010003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Bennington	42.88759	-73.24984
500030004	R & P Model 2025 PM2.5 Sequential w/WINS	VT	Chittenden	44.480278	-73.214444
500070012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Chittenden	44.480278	-73.214444
500070012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Chittenden	44.4762	-73.2106
500070014	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Rutland	43.608056	-72.982778
500210002	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Arlington	38.8575	-77.059167
510130020	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Charles City	37.343294	-77.260034
510360002	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Chesterfield	37.436111	-77.450833
510410003	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Fairfax	38.772778	-77.105556
510590030	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Fairfax	38.837517	-77.163231
510591005	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Fairfax	38.931944	-77.198889
510595001	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Henrico	37.558333	-77.400278
510870014	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Henrico	37.670278	-77.5675
510870015	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Loudoun	39.024444	-77.49
511071005	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Page	38.663333	-78.504722
511390004	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Bristol City	36.607778	-82.164444
515200006	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Hampton City	37.003333	-76.399167
516500004	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Lynchburg City	37.3605	-79.1883
516800015	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Norfolk City	36.857778	-76.301667
517100024	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Richmond City	37.510556	-77.498333
517600020	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Roanoke City	37.256111	-79.985
517700014	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Salem City	37.291944	-80.056944
517750010	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Virginia Beach City	36.841111	-76.181389
518100008	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Benton	46.218611	-119.20556
530050002	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Clark	45.648333	-122.58694
530110013	R & P Model 2000 PM2.5 Sampler w/WINS	WA	Clark	45.867734	-122.41195
530110022	R & P Model 2000 PM2.5 Sampler w/WINS	WA	Grant	47.130336	-119.2726
530251002	R & P Model 2000 PM2.5 Sampler w/WINS	WA	Grays Harbor	46.972696	-123.83047
530272002	R & P Model 2025 PM2.5 Sequential w/WINS	WA	King	47.489722	-121.77333
530330017	R & P Model 2000 PM2.5 Sampler w/WINS	WA	King	47.141111	-121.93306
530330023	R & P Model 2025 PM2.5 Sequential w/WINS	WA	King	47.755	-122.2806
530330024	R & P Model 2025 PM2.5 Sequential w/WINS	WA	King	47.613056	-122.20167
530330037	R & P Model 2025 PM2.5 Sequential w/WINS	WA	King	47.563333	-122.3406
530330057	R & P Model 2025 PM2.5 Sequential w/WINS	WA	King	47.570273	-122.3086
530330080	R & P Model 2000 PM2.5 Sampler w/WINS	WA	Okanogan	48.364267	-120.12112
530470009	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Pierce	47.1864	-122.4517
530530029	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Snohomish	48.055556	-122.1758
530611007	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Spokane	47.660833	-117.35722
530630016	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Spokane	47.701111	-117.425
530630047	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Thurston	47.028889	-122.82083

530670013	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Whatcom	48.762778	-122.44028
530730015	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Yakima	46.59678	-120.51222
530770009	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Berkeley	39.448006	-77.964125
540030003	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Brooke	40.338056	-80.597222
540090005	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Cabell	38.42451	-82.425323
540110006	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Cabell	38.42451	-82.425323
540110006	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Hancock	40.3945	-80.612034
540290011	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Hancock	40.42154	-80.580898
540291004	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Harrison	39.278056	-80.3425
540330003	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Kanawha	38.34562	-81.628422
540390010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Kanawha	38.34562	-81.628422
540390010	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Kanawha	38.448611	-81.683889
540390011	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Kanawha	38.368056	-81.693611
540391005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Kanawha	38.368056	-81.693611
540391005	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Marion	39.480833	-80.135278
540490006	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Marshall	39.91597	-80.734057
540511002	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Mercer	37.26732	-81.235857
540550002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Mercer	37.26732	-81.235857
540550002	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Monongalia	39.649444	-79.921111
540610003	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Ohio	40.06383	-80.720504
540690008	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Raleigh	37.80794	-81.197461
540810002	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Summers	37.773056	-80.706667
540890001	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Wood	39.32366	-81.552196
541071002	R & P Model 2000 PM2.5 Sampler w/WINS	WI	Ashland	46.61455	-90.69868
550030010	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Brown	44.516667	-87.993889
550090005	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Brown	44.523611	-88.001111
550090009	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Dane	43.073333	-89.435833
550250047	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Dodge	43.435	-88.527778
550270007	R & P Model 2000 PM2.5 Sampler w/WINS	WI	Forest	45.56498	-88.80859
550410007	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Grant	42.69215	-90.68637
550430009	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Kenosha	42.504722	-87.8093
550590019	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Manitowoc	44.138611	-87.616111
550710007	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	43.016667	-87.933333
550790010	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	43.061111	-87.9125
550790026	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	43.02641	-87.91111
550790043	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	42.955	-87.934167
550790059	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	43.039722	-87.920556
550790099	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Outagamie	44.306944	-88.395556
550870009	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Ozaukee	43.498056	-87.81
550890009	R & P Model 2025 PM2.5 Sequential w/WINS	WI	St Croix	45.124444	-92.6625
551091002	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Sauk	43.435556	-89.680278
551110007	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Taylor	45.203889	-90.6
551198001	R & P Model 2000 PM2.5 Sampler w/WINS	WI	Vilas	46.048056	-89.653611
551250001	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Waukesha	43.020278	-88.215
551330027	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Waupaca	44.35288	-89.05083
551350004	R & P Model 2025 PM2.5 Sequential w/WINS	WY	Campbell	43.676944	-105.23583
560050877	R & P Model 2025 PM2.5 Sequential w/WINS	WY	Campbell	44.098889	-105.34278
560050892	R & P Model 2025 PM2.5 Sequential w/WINS	WY	Campbell	44.471944	-105.55583
560050899	R & P Model 2025 PM2.5 Sequential w/WINS	WY	Converse	43.426667	-105.38583
560090819	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Fremont	42.841111	-108.73556
560131003	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Laramie	41.14	-104.81722
560210001	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Sheridan	44.797222	-106.94917

560330001	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Sheridan	44.833333	-106.96389
560330002	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Teton	43.480833	-110.76528
560390006	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Bayamon	18.399167	-66.171667
720210009	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Fajardo	18.383333	-65.619444
720530003	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Guyama	17.957222	-66.165556
720570008	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Guyanilla	18.044444	-66.802778
720590016	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Guaynabo	18.439444	-66.115
720610005	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Humacao	18.152778	-65.829167
720690001	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Lares	18.2625	-66.854444
720810001	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Mayaguez	18.209722	-67.146389
720970003	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Ponce	18.008889	-66.627778
721130004	R & P Model 2025 PM2.5 Sequential w/WINS	PR	San Juan	18.449167	-66.053056
721270003	BGI Model PQ200 PM2.5 Sampler w/WINS	VI		17.714444	-64.785278
780100012	BGI Model PQ200 PM2.5 Sampler w/WINS	VI		18.345278	-64.923333

(N. B.: State abbreviations PR and VI refer to Puerto Rico and the Virgin Islands, respectively.)

Table A2. FRM Geographic Information for 2005

AQS_ID	FRM_Method	State	County	Latitude	Longitude
010030010	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Baldwin	30.497778	-87.881389
010270001	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Clay	33.281111	-85.802222
010331002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Colbert	34.760556	-87.650556
010491003	R & P Model 2025 PM2.5 Sequential w/WINS	AL	De Kalb	34.2875	-85.968333
010530002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Escambia	31.106389	-87.071111
010550010	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Etowah	33.993611	-85.991111
010690003	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Houston	31.226207	-85.390818
010730023	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.553056	-86.815
010730023	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.553056	-86.815
010731005	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.331111	-87.003611
010731009	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.459722	-87.305556
010731009	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.459722	-87.305556
010731010	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.545278	-86.549167
010732003	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.499722	-86.924167
010732003	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.499722	-86.924167
010732006	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.386389	-86.816667
010732006	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.386389	-86.816667
010735002	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.704722	-86.669167
010735002	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.704722	-86.669167
010735003	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.801667	-86.9425
010890014	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Madison	34.68767	-86.58637
010970002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	AL	Mobile	30.7663	-88.0757
010970003	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Mobile	30.769722	-88.0875
010972005	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Mobile	30.474444	-88.141111
011010007	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Montgomery	32.425833	-86.285278
011030011	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Morgan	34.51861	-86.976944
011130001	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Russell	32.476389	-84.999167
011170006	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Shelby	33.312778	-86.821111
011190002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Sumter	32.363889	-88.201944
011210002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Talladega	33.279444	-86.349444
011250004	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Tuscaloosa	33.18903	-87.484206
011270002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Walker	33.832778	-87.2725
020200018	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Anchorage	61.206667	-149.82083
020900010	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Fairbanks North Star	64.841111	-147.72
021100004	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Juneau	58.388889	-134.56556
021700008	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Matanuska-Susitna	61.534163	-149.03166
022320002	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Skagway-Hoonah-Angoon	59.46008	-135.31053
040031005	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	AZ	Cochise	31.348759	-109.53861
040051008	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	AZ	Coconino	35.205988	-111.6528
040070008	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	AZ	Gila	34.22934	-111.32942
040130019	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	AZ	Maricopa	33.48385	-112.14257
040131003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	AZ	Maricopa	33.41045	-111.86507
040134003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	AZ	Maricopa	33.40316	-112.07533
040137020	R & P Model 2000 PM2.5 Sampler w/WINS	AZ	Maricopa	33.488166	-111.85493
040139997	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	AZ	Maricopa	33.503643	-112.095
040190011	R & P Model 2025 PM2.5 Sequential w/WINS	AZ	Pima	32.32255	-111.0377
040191028	R & P Model 2025 PM2.5 Sequential w/WINS	AZ	Pima	32.29515	-110.9823
040210001	R & P Model 2000 PM2.5 Sampler w/WINS	AZ	Pinal	32.878611	-111.75167
040210001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	AZ	Pinal	32.878611	-111.75167

040213002	R & P Model 2025 PM2.5 Sequential w/WINS	AZ	Pinal	33.421944	-111.5025
040213002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	AZ	Pinal	33.421944	-111.5025
040230004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	AZ	Santa Cruz	31.337204	-110.93672
050010011	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Arkansas	34.518392	-91.558826
050030005	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Ashley	33.139444	-91.95
050350005	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Crittenden	35.196667	-90.191111
050450002	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Faulkner	35.090833	-92.401667
050510003	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Garland	34.470732	-93.064585
050930007	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Mississippi	35.929167	-89.900833
051070001	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Phillips	34.528889	-90.585556
051130002	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Polk	34.585278	-94.226111
051150003	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Pope	35.292222	-93.139167
051190007	R & P Model 2025 PM2.5 Sequential w/WINS	AR	Pulaski	34.756111	-92.275833
051191004	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Pulaski	34.729167	-92.243333
051191005	R & P Model 2025 PM2.5 Sequential w/WINS	AR	Pulaski	34.676268	-92.337164
051310008	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Sebastian	35.388333	-94.411944
051390006	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Union	33.215	-92.668889
051450001	R & P Model 2000 PM2.5 Sampler w/WINS	AR	White	35.248611	-91.715278
060010007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Alameda	37.6875	-121.7842
060011001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Alameda	37.5358	-121.9619
060070002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Butte	39.7575	-121.84222
060090001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Calaveras	38.201944	-120.68056
060111002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Colusa	39.203056	-122.01667
060130002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Contra Costa	37.936	-122.0262
060190008	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Fresno	36.781389	-119.77222
060195001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Fresno	36.819167	-119.71639
060195025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Fresno	36.727083	-119.73206
060231002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Humboldt	40.801666	-124.16194
060250005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Imperial	32.676111	-115.48333
060250007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Imperial	32.97835	-115.53829
060251003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Imperial	32.791667	-115.56167
060271003	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Inyo	36.487778	-117.87056
060290010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kern	35.385556	-119.01472
060290011	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Kern	35.050556	-118.14639
060290011	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kern	35.050556	-118.14639
060290014	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Kern	35.356111	-119.04028
060290015	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kern	35.623889	-117.67722
060290016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kern	35.324722	-118.99917
060310004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kings	36.101389	-119.56583
060333001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Lake	39.031389	-122.92222
060370002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.1365	-117.92391
060371002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.17605	-118.31712
060371103	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.06659	-118.22688
060371201	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.19925	-118.53276
060371301	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	33.92899	-118.21071
060371601	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.01407	-118.06056
060371602	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.01407	-118.06995
060372005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.1326	-118.1272
060374002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	33.82376	-118.18921
060374004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	33.79236	-118.17533
060379033	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.671389	-118.13056
060450006	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Mendocino	39.150556	-123.205

060472510	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Merced	37.309167	-120.48056
060510001	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Mono	37.648056	-118.97333
060531003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Monterey	36.69683	-121.63617
060570005	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Nevada	39.234444	-121.05556
060571001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Nevada	39.338611	-120.17028
060590007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Orange	33.83062	-117.93845
060592022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Orange	33.63003	-117.67593
060610006	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Placer	38.745833	-121.26528
060631006	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Plumas	39.937222	-120.93778
060631009	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Plumas	39.808333	-120.47167
060651003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.94603	-117.40063
060652002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.70853	-116.21537
060655001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.85275	-116.54101
060658001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.99958	-117.41601
060670006	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Sacramento	38.614167	-121.36694
060670010	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Sacramento	38.558333	-121.49194
060674001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Sacramento	38.555833	-121.45722
060710025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.037222	-117.69
060710306	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.51	-117.33056
060712002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.10002	-117.49201
060718001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.264444	-116.86444
060719004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.10688	-117.27411
060730001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.622778	-117.05611
060730003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.791389	-116.94167
060730006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.828333	-117.13333
060731002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	33.127778	-117.07417
060731007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.708889	-117.15278
060731010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.701389	-117.15278
060750005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Francisco	37.766	-122.3991
060771002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	San Joaquin	37.950833	-121.2675
060792002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	San Luis Obispo	35.283889	-120.65417
060792006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Luis Obispo	35.256606	-120.66889
060798001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	San Luis Obispo	35.491389	-120.66806
060811001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Mateo	37.4829	-122.2034
060830011	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Santa Barbara	34.427776	-119.69028
060831008	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Santa Barbara	34.949167	-120.43667
060850005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Santa Clara	37.3485	-121.895
060852003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Santa Clara	37.3062	-121.8489
060870007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Santa Cruz	36.984	-121.9883
060890004	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Shasta	40.549722	-122.37917
060932001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Siskiyou	41.728333	-122.63444
060950004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Solano	38.1027	-122.2382
060970003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Sonoma	38.4435	-122.71
060990005	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Stanislaus	37.641667	-120.99361
061010003	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Sutter	39.138889	-121.6175
061072002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Tulare	36.332222	-119.29028
061072002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Tulare	36.332222	-119.29028
061110007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Ventura	34.21	-118.86944
061110009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Ventura	34.404611	-118.81
061112002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Ventura	34.2775	-118.68472
061113001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Ventura	34.255	-119.1425
061131003	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Yolo	38.661944	-121.72778

080010006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Adams	39.825739	-104.93699
080050005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Arapahoe	39.604406	-105.01952
080070001	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Archuleta	37.268056	-107.02111
080130003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Boulder	40.165833	-105.10111
080130012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Boulder	40.021104	-105.26335
080290004	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Delta	38.739167	-108.07278
080310002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Denver	39.751185	-104.98762
080310023	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Denver	39.778739	-104.95627
080350004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Douglas	39.53448	-105.07035
080390001	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	CO	Elbert	39.231944	-104.63472
080390001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Elbert	39.231944	-104.63472
080410008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	El Paso	38.898056	-104.76139
080410011	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	El Paso	38.831389	-104.82778
080510005	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Gunnison	38.9	-106.9625
080510007	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Gunnison	38.900536	-106.96555
080690009	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Larimer	40.571236	-105.08012
080770017	R & P Model 2025 PM2.5 Sequential w/WINS	CO	Mesa	39.063625	-108.56102
080770017	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Mesa	39.063625	-108.56102
081010012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Pueblo	38.263611	-104.61222
081070003	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Routt	40.485278	-106.83083
081130004	R & P Model 2000 PM2.5 Sampler w/WINS	CO	San Miguel	37.9375	-107.81167
081230006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Weld	40.414722	-104.70611
081230008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Weld	40.209167	-104.82306
090010010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.170833	-73.194722
090011123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.399167	-73.443056
090013005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.1125	-73.407222
090019003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.118333	-73.336667
090031003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Hartford	41.784722	-72.631667
090050005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Litchfield	41.821389	-73.297222
090090018	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.293889	-72.901389
090090026	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.291111	-72.894167
090090027	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.301111	-72.902778
090091123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.310833	-72.916944
090092008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.331389	-72.919722
090092123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.550556	-73.043611
090113002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New London	41.524167	-72.076667
100010002	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	Kent	38.984722	-75.555556
100010003	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	Kent	39.155	-75.518056
100031003	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	New Castle	39.761111	-75.491944
100031007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DE	New Castle	39.551111	-75.730833
100031012	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	New Castle	39.691944	-75.761667
100032004	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	New Castle	39.739444	-75.558056
100051002	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	Sussex	38.644444	-75.613056
110010041	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DC	District Of Columbia	38.897222	-76.952778
110010042	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DC	District Of Columbia	38.880833	-77.0325
110010043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DC	District Of Columbia	38.918889	-77.0125
120010023	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Alachua	29.703333	-82.391389
120010024	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Alachua	29.658333	-82.408333
120051004	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Bay	30.144167	-85.614444
120090007	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Brevard	28.053889	-80.628611
120111002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Broward	26.082778	-80.237778
120112004	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Broward	26.217222	-80.127778

120113002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Broward	26.000833	-80.160556
120170005	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Citrus	28.980556	-82.7
120310098	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Duval	30.135556	-81.634167
120310099	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Duval	30.355833	-81.548056
120330004	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Escambia	30.525	-87.204167
120330025	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Escambia	30.437	-87.256
120330026	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Escambia	30.55	-87.376
120570030	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Hillsborough	27.931944	-82.509722
120573002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Hillsborough	27.96565	-82.2304
120710005	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Lee	26.602778	-81.878889
120730012	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Leon	30.439722	-84.348333
120814012	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Manatee	27.480556	-82.618889
120830003	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Marion	29.170278	-82.100833
120860033	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Miami-Dade	25.94167	-80.32639
120861016	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Miami-Dade	25.794167	-80.206111
120866001	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Miami-Dade	25.471389	-80.483333
120951004	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Orange	28.550833	-81.345556
120952002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Orange	28.599444	-81.363056
120990008	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Palm Beach	26.724444	-80.666667
120990009	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Palm Beach	26.731	-80.234
120992005	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Palm Beach	26.457778	-80.093057
121030018	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Pinellas	27.785556	-82.74
121031009	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Pinellas	27.985945	-82.782231
121056006	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Polk	28.029167	-81.972222
121111002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	St Lucie	27.448889	-80.40833
121150013	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Sarasota	27.290556	-82.5075
121171002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Seminole	28.745556	-81.31
121275002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Volusia	29.206667	-81.053056
130210007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Bibb	32.777231	-83.641242
130210012	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Bibb	32.805244	-83.543628
130510017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Chatham	32.092778	-81.144167
130510091	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Chatham	32.11058	-81.162024
130590001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Clarke	33.945833	-83.372222
130590002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Clarke	33.917925	-83.344512
130630091	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Clayton	33.609722	-84.391111
130670003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Cobb	34.015346	-84.607484
130670004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Cobb	33.899182	-84.661589
130890002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	De Kalb	33.688007	-84.290325
130892001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	De Kalb	33.901251	-84.279989
130950007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Dougherty	31.576917	-84.100194
131150005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Floyd	34.263198	-85.304826
131210032	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Fulton	33.819424	-84.389791
131210039	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Fulton	33.802189	-84.435658
131270006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Glynn	31.16953	-81.496046
131350002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Gwinnett	33.963074	-84.069193
131390003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Hall	34.300342	-83.8139
131530001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Houston	32.6056	-83.597907
131850003	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Lowndes	30.848056	-83.294444
131850003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Lowndes	30.848056	-83.294444
132150001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Muscogee	32.483543	-84.980977
132150008	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Muscogee	32.521099	-84.944695
132150008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Muscogee	32.521099	-84.944695

132150011	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Muscogee	32.430944	-84.931818
132230003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Paulding	33.92855	-85.04548
132450005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Richmond	33.469018	-81.991581
132450091	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Richmond	33.433883	-82.022414
132950002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Walker	34.966557	-85.297229
133030001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Washington	32.974722	-82.808889
133030001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Washington	32.974722	-82.808889
133190001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Wilkinson	32.881667	-83.333889
150030010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Honolulu	21.329167	-158.09333
150031001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Honolulu	21.310278	-157.85806
150031004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Honolulu	21.305	-157.87333
150032004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Honolulu	21.396667	-157.97167
150090006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Maui	20.780997	-156.44637
160010011	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Ada	43.636111	-116.27028
160050015	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Bannock	42.876725	-112.46035
160050018	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Bannock	42.796463	-112.25812
160090010	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Benewah	47.316667	-116.57028
160090011	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ID	Benewah	47.338702	-116.88461
160190013	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Bonneville	43.518267	-112.02071
160210002	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Boundary	48.70555	-116.36897
160270004	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Canyon	43.562401	-116.56323
160270008	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Canyon	43.787147	-116.95958
160410001	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Franklin	42.013333	-111.80917
160410002	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Franklin	42.082222	-111.86417
160450001	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Gem	43.856442	-116.51546
160490003	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Idaho	46.2094	-116.0275
160590004	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Lemhi	45.170556	-113.89222
160770011	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Power	42.9125	-112.53556
160790017	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Shoshone	47.536389	-116.23667
170010006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Adams	39.935025	-91.404232
170190004	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Champaign	40.125657	-88.229532
170191001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Champaign	40.054198	-88.372552
170310022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.689195	-87.539318
170310050	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.709561	-87.568576
170310052	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.967429	-87.749819
170310057	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.914733	-87.722725
170310076	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.751369	-87.713745
170311016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.801111	-87.831944
170312001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.663997	-87.696468
170313103	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.965278	-87.876389
170313301	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.782778	-87.805278
170314007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	42.060278	-87.863333
170314201	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	42.14	-87.799167
170316005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.864257	-87.74888
170434002	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Du Page	41.771195	-88.152502
170650002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Hamilton	38.083942	-88.624942
170831001	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Jersey	39.110312	-90.324168
170890003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Kane	42.050278	-88.280278
170890007	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Kane	41.786586	-88.329376
170971007	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Lake	42.467535	-87.810024
170990007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	La Salle	41.293125	-89.049242
171110001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Mc Henry	42.221421	-88.2421

171132003	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Mc Lean	40.520584	-88.996898
171150013	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Macon	39.866944	-88.925556
171190023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Madison	38.69948	-90.143433
171191007	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Madison	38.704444	-90.139444
171192009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Madison	38.902778	-90.143056
171193007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Madison	38.860645	-90.105754
171430037	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Peoria	40.698886	-89.584741
171570001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Randolph	38.178	-89.788455
171613002	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Rock Island	41.514722	-90.517222
171630010	R & P Model 2000 PM2.5 Sampler w/WINS	IL	St Clair	38.612222	-90.160278
171634001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	St Clair	38.529444	-89.993056
171670012	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Sangamon	39.833792	-89.644167
171971002	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Will	41.526667	-88.116389
171971011	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Will	41.221592	-88.190948
172010013	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Winnebago	42.265109	-89.092776
180030004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Allen	41.094722	-85.101944
180030014	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Allen	41.050556	-85.149722
180190006	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Clark	38.277675	-85.740153
180350006	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Delaware	40.201111	-85.388056
180372001	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Dubois	38.391389	-86.929167
180390003	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Elkhart	41.667778	-85.969444
180431004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Floyd	38.308056	-85.834167
180650003	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Henry	40.011667	-85.523611
180670003	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Howard	40.485556	-86.132778
180830004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Knox	38.740833	-87.484722
180890006	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.636111	-87.440833
180890022	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.606667	-87.304722
180890026	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.573056	-87.405833
180890027	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.546667	-87.426389
180890031	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.598505	-87.342991
180891003	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.588889	-87.407778
180892004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.585278	-87.474444
180892010	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.678333	-87.508333
180910011	R & P Model 2025 PM2.5 Sequential w/WINS	IN	La Porte	41.706944	-86.891111
180910012	R & P Model 2025 PM2.5 Sequential w/WINS	IN	La Porte	41.602222	-86.730278
180950009	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Madison	40.111944	-85.68
180970042	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.646254	-86.248784
180970043	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.744957	-86.166496
180970066	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.760437	-86.108848
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.811097	-86.114469
180970079	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.893611	-86.040556
180970081	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.788903	-86.214628
180970083	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.774944	-86.122053
181270020	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Porter	41.631389	-87.086944
181270024	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Porter	41.6175	-87.199167
181410014	R & P Model 2025 PM2.5 Sequential w/WINS	IN	St Joseph	41.663333	-86.207778
181411008	R & P Model 2025 PM2.5 Sequential w/WINS	IN	St Joseph	41.693611	-86.236667
181412004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	St Joseph	41.694444	-86.2875
181470009	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Spencer	38.1675	-86.983333
181570008	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Tippecanoe	40.431639	-86.8525
181630006	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vanderburgh	37.971667	-87.567222
181630012	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vanderburgh	38.021667	-87.569444

181630016	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vanderburgh	37.974444	-87.532222
181670018	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vigo	39.486111	-87.401389
181670023	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vigo	39.456111	-87.370556
190130008	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Black Hawk	42.493056	-92.343889
190450021	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Clinton	41.874972	-90.177444
191032001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Johnson	41.657361	-91.503472
191130037	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Linn	42.008333	-91.678611
191370002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Montgomery	40.971211	-95.043868
191390015	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Muscatine	41.400833	-91.067778
191471002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Palo Alto	43.123333	-94.693333
191530030	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Polk	41.603132	-93.643234
191532510	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Polk	41.603479	-93.747821
191532520	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Polk	41.664722	-93.614167
191550009	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Pottawattamie	41.264167	-95.895833
191550009	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Pottawattamie	41.264167	-95.895833
191630015	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Scott	41.53	-90.5875
191630018	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Scott	41.55	-90.6
191630019	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Scott	41.517778	-90.618611
191770006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Van Buren	40.695078	-92.006318
191930017	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Woodbury	42.517222	-96.386389
191970004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Wright	42.695387	-93.655982
200910007	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Johnson	38.974444	-94.686944
200910009	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Johnson	38.863056	-94.768889
200910010	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Johnson	38.83859	-94.74643
201070002	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Linn	38.135833	-94.731944
201730008	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Sedgwick	37.659722	-97.297222
201730009	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Sedgwick	37.651111	-97.362222
201730010	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Sedgwick	37.701111	-97.313889
201770010	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Shawnee	39.04	-95.691667
201770011	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Shawnee	39.021389	-95.748333
201910002	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Sumner	37.476944	-97.366389
202090021	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Wyandotte	39.1175	-94.635556
202090022	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Wyandotte	39.045833	-94.694444
210130002	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Bell	36.608056	-83.736944
210190017	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Boyd	38.459167	-82.640556
210290006	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Bullitt	37.985556	-85.713056
210370003	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Campbell	39.065556	-84.451944
210430500	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Carter	38.238333	-82.988333
210470006	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Christian	36.911667	-87.323611
210590005	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Daviess	37.780833	-87.075556
210610501	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Edmonson	37.131389	-86.148056
210670012	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Fayette	38.065	-84.5
210670014	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Fayette	38.038889	-84.5075
210730006	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Franklin	38.219361	-84.8385
210930006	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Hardin	37.706389	-85.851667
211010014	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Henderson	37.871389	-87.463333
211110043	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Jefferson	38.233222	-85.825278
211110044	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Jefferson	38.190833	-85.780556
211110048	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Jefferson	38.240556	-85.731667
211110051	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Jefferson	38.060833	-85.896111
211170007	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Kenton	39.0725	-84.525
211250004	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Laurel	37.087222	-84.063333

211451004	R & P Model 2025 PM2.5 Sequential w/WINS	KY	McCracken	37.065556	-88.637778
211510003	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Madison	37.738056	-84.285556
211830032	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Ohio	37.319725	-86.956097
211930003	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Perry	37.283056	-83.220278
211950002	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Pike	37.482778	-82.535278
212270007	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Warren	36.993333	-86.418333
220171002	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Caddo	32.478333	-93.765833
220190009	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Calcasieu	30.227778	-93.578333
220190010	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Calcasieu	30.177143	-93.214514
220290003	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Concordia	31.574236	-91.455236
220330009	R & P Model 2025 PM2.5 Sequential w/WINS	LA	East Baton Rouge	30.461111	-91.176944
220331001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	East Baton Rouge	30.587222	-91.206944
220470005	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Iberville	30.217778	-91.060556
220470009	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Iberville	30.220556	-91.316111
220511001	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Jefferson	30.043333	-90.275
220511001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Jefferson	30.043333	-90.275
220512001	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Jefferson	29.883056	-90.083333
220512001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Jefferson	29.883056	-90.083333
220518105	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Jefferson	30.020892	-90.123099
220518106	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Jefferson	29.999264	-90.211619
220518107	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Jefferson	29.9198	-90.231783
220550005	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Lafayette	30.2175	-92.051389
220550006	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Lafayette	30.274833	-92.0172
220710010	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	29.9555	-90.12166
220710010	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Orleans	29.9555	-90.12166
220710012	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	29.994444	-90.102778
220710012	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Orleans	29.994444	-90.102778
220718105	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	30.016905	-89.927185
220718106	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	30.032329	-90.045465
220718109	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	30.16635	-89.737333
220718110	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	30.0655	-89.804767
220718401	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	29.96249	-90.05689
220730004	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Ouachita	32.509713	-92.046093
220758400	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Plaquemines	29.88546	-89.94952
220790002	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Rapides	31.177638	-92.410611
220870004	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	St Bernard	29.941667	-89.933333
220870004	R & P Model 2025 PM2.5 Sequential w/WINS	LA	St Bernard	29.941667	-89.933333
220878103	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	St Bernard	29.971443	-89.998605
220890005	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	St Charles	29.933056	-90.359444
221038400	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	St Tammany	30.31445	-89.81415
221038401	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	St Tammany	30.26588	-89.76997
221050001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Tangipahoa	30.503056	-90.376944
221090001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Terrebonne	29.678883	-90.779967
221210001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	West Baton Rouge	30.501944	-91.209722
230010011	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Androscoggin	44.089444	-70.215
230030013	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Aroostook	47.355	-68.322778
230031011	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Aroostook	46.682222	-68.016111
230050015	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Cumberland	43.678056	-70.256667
230050027	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Cumberland	43.661944	-70.265833
230090103	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Hancock	44.37705	-68.2609
230110016	R & P Model 2000 PM2.5 Sampler w/WINS	ME	Kennebec	44.312222	-69.786389
230112002	R & P Model 2000 PM2.5 Sampler w/WINS	ME	Kennebec	44.549167	-69.630833

230112006	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Kennebec	44.56817	-69.62083
230172011	R & P Model 2000 PM2.5 Sampler w/WINS	ME	Oxford	44.550833	-70.548333
230190002	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Penobscot	44.798849	-68.769745
240030014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Anne Arundel	38.9025	-76.653056
240031003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Anne Arundel	39.169533	-76.627933
240032002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Anne Arundel	39.159722	-76.511667
240051007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore	39.460833	-76.631111
240053001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore	39.310833	-76.474444
240150003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Cecil	39.701111	-75.86
240251001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Harford	39.41	-76.296667
240313001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Montgomery	39.114444	-77.106944
240330030	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Prince Georges	39.055277	-76.878333
240338003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Prince Georges	38.81194	-76.74417
240430009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Washington	39.565556	-77.721944
245100006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.340556	-76.582222
245100007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.344444	-76.685278
245100008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.28768	-76.547616
245100035	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.232778	-76.579722
245100040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.298056	-76.604722
245100049	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.261667	-76.6375
250035001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Berkshire	42.451667	-73.255
250051004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Bristol	41.6857	-71.1698
250051004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Bristol	41.6857	-71.1698
250092006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Essex	42.474444	-70.9725
250092006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Essex	42.474444	-70.9725
250095005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Essex	42.762778	-71.105833
250095005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Essex	42.762778	-71.105833
250096001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Essex	42.698611	-71.165833
250096001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Essex	42.698611	-71.165833
250130008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Hampden	42.19446	-72.555711
250130008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Hampden	42.19446	-72.555711
250130016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Hampden	42.108889	-72.591389
250132009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Hampden	42.106	-72.597585
250132009	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Hampden	42.106	-72.597585
250170009	BGI Model PQ200 PM2.5 Sampler w/WINS	MA	Middlesex	42.62668	-71.362068
250230004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Plymouth	42.079722	-71.015278
250230004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Plymouth	42.079722	-71.015278
250250002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Suffolk	42.348933	-71.097733
250250002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Suffolk	42.348933	-71.097733
250250027	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Suffolk	42.372928	-71.063311
250250027	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Suffolk	42.372928	-71.063311
250250042	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Suffolk	42.329444	-71.082778
250250042	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Suffolk	42.329444	-71.082778
250250043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Suffolk	42.362778	-71.054167
250270016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Worcester	42.259167	-71.799167
250270016	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Worcester	42.259167	-71.799167
250270023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Worcester	42.265802	-71.794835
250270023	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Worcester	42.265802	-71.794835
260050003	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Allegan	42.767778	-86.148611
260170014	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Bay	43.571389	-83.890833
260210014	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Berrien	42.197778	-86.309722
260330901	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Chippewa	46.493611	-84.364167

260330902	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Chippewa	46.481667	-84.331667
260330903	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Chippewa	46.454	-84.6067
260430002	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Dickinson	46.139444	-87.907222
260490021	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Genesee	43.04722	-83.670278
260650012	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Ingham	42.738611	-84.534722
260710001	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Iron	46.159883	-88.119627
260770008	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Kalamazoo	42.278056	-85.541944
260810020	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Kent	42.984167	-85.671389
260990009	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Macomb	42.731389	-82.793611
261130001	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Missaukee	44.310556	-84.891944
261150005	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Monroe	41.763889	-83.471944
261210040	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Muskegon	43.233056	-86.238611
261250001	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Oakland	42.463056	-83.183333
261390005	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Ottawa	42.894444	-85.852778
261450018	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Saginaw	43.508333	-83.968056
261470005	R & P Model 2025 PM2.5 Sequential w/WINS	MI	St Clair	42.953333	-82.456389
261610005	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Washtenaw	42.293889	-83.711111
261610008	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Washtenaw	42.240556	-83.599722
261630001	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.228611	-83.208333
261630015	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.302778	-83.106667
261630016	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.3578	-83.09617
261630019	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.430833	-83.000278
261630025	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.423055	-83.426389
261630033	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.306666	-83.148889
261630036	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.18728	-83.15404
261630038	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.335	-83.1097
261630039	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.323333	-83.068611
270210001	R & P Model 2000 PM2.5 Sampler w/WINS	MN	Cass	47.159942	-94.150987
270370470	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Dakota	44.740751	-93.237293
270530050	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	45.001229	-93.267117
270530961	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.87753	-93.25882
270530963	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.955396	-93.25827
270530965	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	45.004478	-93.240046
270530968	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.893005	-93.233227
270531007	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	45.041815	-93.298729
270532006	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.950047	-93.342874
270953051	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Mille Lacs	46.207026	-93.759411
271095008	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Olmsted	43.996908	-92.450366
271230866	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Ramsey	44.899379	-93.017155
271230868	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Ramsey	44.952442	-93.098475
271230871	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Ramsey	44.961451	-93.035894
271377001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	St Louis	47.523355	-92.536305
271377550	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	St Louis	46.820199	-92.08941
271377551	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	St Louis	46.766667	-92.133056
271390505	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Scott	44.791437	-93.512534
271453052	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Stearns	45.549839	-94.13345
280010004	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Adams	31.560389	-91.39025
280110001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Bolivar	33.746056	-90.723028
280330002	R & P Model 2025 PM2.5 Sequential w/WINS	MS	De Soto	34.82166	-89.98783
280350004	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Forrest	31.323639	-89.287167
280450001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Hancock	30.230167	-89.567444
280450002	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Hancock	30.38	-89.448333

280450003	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Hancock	30.300833	-89.395916
280458104	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Hancock	30.26892	-89.44933
280458105	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Hancock	30.40966	-89.44114
280458201	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Hancock	30.393193	-89.580378
280470008	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Harrison	30.390139	-89.049722
280470008	R & P Model 2000 PM2.5 Sampler w/WINS	MS	Harrison	30.390139	-89.049722
280470008	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Harrison	30.390139	-89.049722
280478101	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Harrison	30.373678	-89.15513
280478102	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Harrison	30.449005	-89.052683
280478103	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Harrison	30.470916	-88.9827
280490010	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Hinds	32.385583	-90.140917
280490018	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Hinds	32.296806	-90.188306
280590006	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Jackson	30.378194	-88.533944
280590006	R & P Model 2000 PM2.5 Sampler w/WINS	MS	Jackson	30.378194	-88.533944
280590006	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Jackson	30.378194	-88.533944
280670002	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Jones	31.688444	-89.135056
280750003	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Lauderdale	32.364389	-88.731444
280810005	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Lee	34.264917	-88.766222
280870001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Lowndes	33.490972	-88.418528
281090001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Pearl River	30.5295	-89.691056
281210001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Rankin	32.275528	-90.132528
281230001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Scott	32.32	-89.666667
281490004	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Warren	32.322833	-90.887111
290190004	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Boone	38.956389	-92.321667
290210005	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Buchanan	39.741667	-94.858333
290370003	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Cass	38.770278	-94.58
290390001	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Cedar	37.695833	-94.0375
290470005	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Clay	39.303056	-94.376389
290770032	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Greene	37.205278	-93.283333
290950010	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Jackson	39.036	-94.5741
290950034	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Jackson	39.104722	-94.570556
290990012	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Jefferson	38.437778	-90.361389
291370001	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Monroe	39.473056	-91.789167
291831002	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Charles	38.8725	-90.226389
291860006	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Ste Genevieve	37.967222	-90.051111
291890004	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis	38.5325	-90.382778
291892003	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis	38.649722	-90.350556
295100007	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis City	38.5425	-90.263611
295100085	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis City	38.6563	-90.1981
295100086	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis City	38.672222	-90.238889
295100087	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis City	38.642444	-90.185583
300131026	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Cascade	47.502222	-111.27889
300290009	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Flathead	48.399722	-114.33361
300290047	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Flathead	48.2025	-114.30556
300310006	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Gallatin	45.726314	-111.0673
300310008	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Gallatin	45.772778	-111.1775
300310013	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Gallatin	44.657778	-111.09083
300470013	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MT	Lake	47.526944	-114.10056
300470028	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MT	Lake	47.692222	-114.16222
300490018	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Lewis And Clark	46.603889	-112.03528
300490019	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Lewis And Clark	46.954475	-112.69674
300530018	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Lincoln	48.384167	-115.54806

300630021	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Missoula	47.1771	-113.4827
300630031	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Missoula	46.874912	-113.99525
300810001	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Ravalli	46.244444	-114.15722
300810007	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Ravalli	46.245633	-114.15886
300870307	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MT	Rosebud	45.623333	-106.66806
300890007	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Sanders	47.596389	-115.32361
300930005	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Silver Bow	46.0025	-112.5
301111065	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Yellowstone	45.801944	-108.42611
310250002	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Cass	40.865556	-96.146667
310550019	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Douglas	41.247222	-95.975556
310550052	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Douglas	41.333056	-96.099722
310790004	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Hall	40.942099	-98.364967
311090022	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Lancaster	40.81259	-96.68302
311111002	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Lincoln	41.136111	-100.76444
311530007	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Sarpy	41.133613	-95.955835
311570003	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Scotts Bluff	41.865	-103.66444
311770002	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Washington	41.551136	-96.146753
320030022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.390775	-114.90681
320030298	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.052222	-115.05694
320030561	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.163994	-115.11393
320031019	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	35.785634	-115.35706
320032002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.191111	-115.12222
320310016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Washoe	39.525083	-119.80772
330012004	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Belknap	43.565278	-71.495833
330050007	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Cheshire	42.930556	-72.277778
330070014	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Coos	44.471111	-71.166667
330090010	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Grafton	43.62957	-72.226083
330110020	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Hillsborough	43.000556	-71.468056
330111015	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Hillsborough	42.76186	-71.44455
330111015	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NH	Hillsborough	42.76186	-71.44455
330115001	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Hillsborough	42.861901	-71.878613
330131006	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Merrimack	43.132444	-71.45827
330150014	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Rockingham	43.075278	-70.748056
330190003	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Sullivan	43.364444	-72.338333
340011006	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Atlantic	39.362641	-74.429345
340030003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Bergen	40.851667	-73.973333
340070003	R & P Model 2000 PM2.5 Sampler w/WINS	NJ	Camden	39.92304	-75.09762
340070003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Camden	39.92304	-75.09762
340071007	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Camden	39.98888	-75.049167
340130015	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Essex	40.731944	-74.205278
340155001	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Gloucester	39.825833	-75.289444
340171003	R & P Model 2000 PM2.5 Sampler w/WINS	NJ	Hudson	40.72545	-74.05229
340171003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Hudson	40.72545	-74.05229
340172002	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Hudson	40.773056	-74.031944
340210008	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Mercer	40.222222	-74.763611
340218001	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Mercer	40.3124	-74.8726
340230006	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Middlesex	40.47279	-74.42251
340270004	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Morris	40.803056	-74.483333
340273001	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Morris	40.78763	-74.6763
340292002	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Ocean	39.995	-74.165833
340310005	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Passaic	40.918611	-74.167778
340390004	R & P Model 2000 PM2.5 Sampler w/WINS	NJ	Union	40.64144	-74.20836

340390004	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Union	40.64144	-74.20836
340390006	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Union	40.673056	-74.213611
340392003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Union	40.60607	-74.27498
340410006	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Warren	40.687222	-75.181389
350010023	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Bernalillo	35.13426	-106.58551
350010024	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Bernalillo	35.0631	-106.57879
350050005	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Chaves	33.396944	-104.52361
350130017	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Dona Ana	31.795833	-106.5575
350130025	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Dona Ana	32.321944	-106.76778
350171002	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Grant	32.784444	-108.27167
350250007	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Lea	32.724722	-103.12861
350250008	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Lea	32.726656	-103.12292
350431003	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Sandoval	35.238056	-106.64944
350439004	R & P Model 2000 PM2.5 Sampler w/WINS	NM	Sandoval	35.615278	-106.72444
350439011	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Sandoval	35.5064	-106.7222
350450006	R & P Model 2025 PM2.5 Sequential w/WINS	NM	San Juan	36.7275	-108.22083
350490020	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Santa Fe	35.671111	-105.95361
360010005	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Albany	42.6424	-73.75453
360050080	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Bronx	40.83608	-73.92021
360050083	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Bronx	40.86586	-73.88075
360050110	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Bronx	40.81616	-73.90207
360130011	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Chautauqua	42.29073	-79.58658
360290005	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Erie	42.87684	-78.80988
360291007	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Erie	42.82728	-78.84989
360310003	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Essex	44.39309	-73.85892
360470122	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Kings	40.7198	-73.94788
360551007	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Monroe	43.146198	-77.54813
360590008	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Nassau	40.63102	-73.73479
360610056	R & P Model 2025 PM2.5 Sequential w/WINS	NY	New York	40.75917	-73.96651
360610062	R & P Model 2025 PM2.5 Sequential w/WINS	NY	New York	40.72052	-74.00409
360610079	R & P Model 2025 PM2.5 Sequential w/WINS	NY	New York	40.79937	-73.93334
360610128	R & P Model 2025 PM2.5 Sequential w/WINS	NY	New York	40.73003	-73.98446
360632008	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Niagara	43.08216	-79.00099
360671015	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Onondaga	43.05238	-76.0592
360710002	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Orange	41.49947	-74.00973
360810124	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Queens	40.7362	-73.82317
360850055	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Richmond	40.63302	-74.13713
360850067	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Richmond	40.59733	-74.12619
360893001	R & P Model 2025 PM2.5 Sequential w/WINS	NY	St Lawrence	44.67778	-74.94999
361010003	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Steuben	42.09071	-77.21025
361030001	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Suffolk	40.745833	-73.420278
361191002	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Westchester	40.93006	-73.76924
370010002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Alamance	36.089004	-79.407821
370210034	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Buncombe	35.609722	-82.350833
370330001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Caswell	36.307033	-79.467417
370350004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Catawba	35.728889	-81.365556
370350006	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Catawba	35.7278	-81.3425
370370004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Chatham	35.757222	-79.159722
370510009	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Cumberland	35.041416	-78.953112
370570002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Davidson	35.814444	-80.2625
370570003	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Davidson	35.77881	-80.30236
370570004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Davidson	35.84119	-80.24452

370610002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Duplin	34.954823	-77.960781
370630001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Durham	35.991944	-78.896389
370650004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Edgecombe	35.93355	-77.75007
370670022	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Forsyth	36.110556	-80.226667
370670024	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Forsyth	36.171389	-80.281944
370670030	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Forsyth	36.026	-80.342
370710016	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Gaston	35.253056	-81.153333
370810013	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Guilford	36.109167	-79.801111
370870010	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Haywood	35.489167	-82.9875
370990006	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Jackson	35.466667	-83.278056
371070004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Lenoir	35.231459	-77.568792
371110004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mc Dowell	35.687404	-81.993789
371170001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Martin	35.81069	-76.89782
371190010	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mecklenburg	35.225278	-80.882778
371190041	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mecklenburg	35.240278	-80.785556
371190042	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mecklenburg	35.151389	-80.866944
371210001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mitchell	35.915278	-82.073333
371230001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Montgomery	35.26	-79.84
371290002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	New Hanover	34.364167	-77.838611
371330005	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Onslow	34.772828	-77.42796
371350007	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Orange	35.901944	-79.056667
371470005	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Pitt	35.594167	-77.386111
371550005	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Robeson	34.6425	-78.990278
371590021	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Rowan	35.551868	-80.395039
371730002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Swain	35.435509	-83.443697
371830014	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Wake	35.856111	-78.574167
371890003	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Watauga	36.221944	-81.663056
371910005	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Wayne	35.369214	-77.993893
380070002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	Billings	46.8943	-103.37853
380130002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	Burke	48.9904	-102.7815
380130003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	Burke	48.876553	-102.56842
380150003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	ND	Burleigh	46.825425	-100.76821
380171004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	ND	Cass	46.933754	-96.85535
380530002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	McKenzie	47.5812	-103.2995
380570004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	Mercer	47.298611	-101.76694
390090003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Athens	39.4425	-81.908611
390170003	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	OH	Butler	39.493611	-84.353889
390170016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Butler	39.338333	-84.566389
390170017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Butler	39.525	-84.369444
390171004	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	OH	Butler	39.53	-84.3925
390230005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Clark	39.928889	-83.809722
390250022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Clermont	39.082319	-84.144193
390350027	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.4775	-81.703056
390350034	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.555	-81.575
390350038	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.476944	-81.681944
390350045	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.471667	-81.657222
390350060	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.493955	-81.678542
390350065	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.446389	-81.661944
390351002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.395556	-81.818056
390490024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Franklin	39.998333	-82.993056
390490025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Franklin	39.928056	-82.981111
390490081	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Franklin	40.087778	-82.959722

390570005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Greene	39.808056	-83.886944
390610006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.278499	-84.365974
390610014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.194167	-84.478889
390610040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.128611	-84.504167
390610041	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.185967	-84.513719
390610042	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.105	-84.551111
390610043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.290278	-84.414444
390617001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.16	-84.457778
390618001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.180278	-84.491944
390810017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Jefferson	40.366104	-80.615002
390811001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Jefferson	40.321944	-80.606389
390851001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lake	41.755	-81.273056
390870010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lawrence	38.519722	-82.665556
390930016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lorain	41.439444	-82.161667
390933002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lorain	41.463056	-82.114444
390950024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lucas	41.644167	-83.546667
390950025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lucas	41.661944	-83.479444
390950026	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lucas	41.620556	-83.641389
390990005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Mahoning	41.111111	-80.645278
390990014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Mahoning	41.095868	-80.658426
391030003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Medina	41.102778	-81.911667
391130031	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Montgomery	39.759444	-84.144444
391130032	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Montgomery	39.760278	-84.187778
391330002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Portage	41.164167	-81.235
391351001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Preble	39.835556	-84.720833
391450013	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Scioto	38.754167	-82.9175
391510017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Stark	40.786667	-81.394444
391510020	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Stark	40.800556	-81.373333
391530017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Summit	41.063333	-81.468611
391530023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Summit	41.088056	-81.541667
391550007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Trumbull	41.214167	-80.7875
400159008	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Caddo	35.111944	-98.252778
400190295	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Carter	34.166667	-97.126389
400219002	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Cherokee	35.855	-94.986111
400470554	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Garfield	36.420278	-97.886944
400710602	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Kay	36.705328	-97.087656
400719010	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Kay	36.956731	-97.034369
400819005	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Lincoln	35.6725	-96.657222
400970186	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Mayes	36.304624	-95.310616
400979014	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Mayes	36.2284	-95.25
401010169	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Muskogee	35.755273	-95.377669
401090035	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Oklahoma	35.47292	-97.52709
401091037	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Oklahoma	35.614131	-97.475083
401159004	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Ottawa	36.922222	-94.838889
401210415	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Pittsburg	34.90227	-95.784375
401359015	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Sequoyah	35.58175	-94.829
401430110	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Tulsa	36.14004	-95.925382
401431127	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Tulsa	36.204902	-95.976537
410090004	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Columbia	45.768056	-122.77194
410190002	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Douglas	43.22769	-123.3644
410290133	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Jackson	42.314078	-122.87924
410291001	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Jackson	42.536111	-122.875

410294001	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Jackson	42.426389	-122.85083
410330011	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Josephine	42.289722	-123.2325
410350004	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Klamath	42.188889	-121.7225
410390060	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Lane	44.026312	-123.08374
410391007	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Lane	43.833898	-123.03498
410391009	R & P Model 2000 PM2.5 Sampler w/WINS	OR	Lane	44.046696	-123.0177
410392013	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Lane	43.744352	-122.48052
410430009	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Linn	44.615648	-123.0916
410510080	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Multnomah	45.496667	-122.60222
410510246	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Multnomah	45.561301	-122.67878
410610119	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Union	45.338972	-117.9048
410650007	R & P Model 2000 PM2.5 Sampler w/WINS	OR	Wasco	45.602399	-121.20335
410670004	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Washington	45.52853	-122.97244
410670111	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Washington	45.4702	-122.81585
420010001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Adams	39.92	-77.31
420030008	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.465556	-79.961111
420030021	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.413611	-79.941389
420030064	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.323611	-79.868333
420030067	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.381944	-80.185556
420030093	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.607222	-80.020833
420030095	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.486944	-80.188056
420030116	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.473611	-80.077222
420030133	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.260129	-79.886498
420031008	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.618611	-79.727222
420031301	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.4025	-79.860278
420033007	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.294444	-79.886667
420039002	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.546944	-79.783889
420070014	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Beaver	40.747778	-80.316667
420110009	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Berks	40.320278	-75.926667
420170012	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Bucks	40.107222	-74.882222
420210011	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Cambria	40.309722	-78.915
420270100	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Centre	40.811389	-77.877028
420290100	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Chester	39.834444	-75.768611
420410101	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Cumberland	40.246528	-77.18675
420430401	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Dauphin	40.245	-76.844722
420450002	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Delaware	39.835556	-75.3725
420490003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Erie	42.14175	-80.038611
420692006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Lackawanna	41.442778	-75.623056
420710007	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Lancaster	40.046667	-76.283333
420770004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Lehigh	40.611944	-75.4325
420791101	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Luzerne	41.265556	-75.846389
420850100	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Mercer	41.215	-80.485
420910013	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Montgomery	40.112222	-75.309167
420950025	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Northampton	40.628056	-75.341111
420990301	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Perry	40.456944	-77.165556
421010003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	39.944167	-75.166111
421010004	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PA	Philadelphia	40.008889	-75.097778
421010004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	40.008889	-75.097778
421010020	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	40.002222	-75.220278
421010024	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PA	Philadelphia	40.076389	-75.011944
421010024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	40.076389	-75.011944
421010047	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	39.944722	-75.166111

421010136	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PA	Philadelphia	39.9275	-75.222778
421010136	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	39.9275	-75.222778
421250005	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Washington	40.146667	-79.902222
421250200	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Washington	40.170556	-80.261389
421255001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Washington	40.445278	-80.420833
421290008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Westmoreland	40.304694	-79.505667
421330008	R & P Model 2025 PM2.5 Sequential w/WINS	PA	York	39.965278	-76.699444
440030002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Kent	41.6156	-71.7199
440070022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Providence	41.807949	-71.415
440070026	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Providence	41.874655	-71.379944
440070028	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Providence	41.80933	-71.40743
440071010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Providence	41.84092	-71.36094
450030003	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Aiken	33.342226	-81.788731
450130007	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Beaufort	32.436539	-80.677854
450190048	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Charleston	32.980254	-80.06501
450190049	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Charleston	32.790984	-79.958694
450250001	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Chesterfield	34.615367	-80.198787
450370001	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Edgefield	33.741693	-81.853633
450410002	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Florence	34.167636	-79.850404
450430009	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Georgetown	33.373994	-79.285697
450450008	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.838814	-82.402914
450450009	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.901046	-82.31307
450450011	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.884511	-82.359807
450450012	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.817197	-82.418487
450450013	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.854799	-82.380631
450450014	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.843991	-82.401159
450470003	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenwood	34.214556	-82.173146
450510002	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Horry	33.702771	-78.877478
450630008	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Lexington	34.052805	-81.15495
450730001	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Oconee	34.805261	-83.2377
450790007	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Richland	34.093959	-80.962304
450790019	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Richland	33.993299	-81.024141
450830010	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Spartanburg	34.926839	-82.00521
460110002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Brookings	44.310283	-96.80071
460130003	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Brown	45.4625	-98.486111
460290002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Codington	44.89965	-97.128802
460330132	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Custer	43.5578	-103.4839
460710001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Jackson	43.74561	-101.94122
460990006	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Minnehaha	43.544289	-96.726435
460990007	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Minnehaha	43.537626	-96.682001
461030016	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Pennington	44.064932	-103.20914
461030020	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Pennington	44.087397	-103.27378
461031001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Pennington	44.080295	-103.22855
470090011	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Blount	35.768333	-83.942222
470370023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Davidson	36.176326	-86.738902
470370025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Davidson	36.1	-86.734444
470370036	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Davidson	36.118251	-86.873547
470450004	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Dyer	36.052778	-89.381944
470650031	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Hamilton	34.990944	-85.22875
470651011	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Hamilton	35.233527	-85.181806
470654002	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Hamilton	35.050928	-85.292975
470930028	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Knox	35.943611	-84.038889

470931017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Knox	35.975	-83.954444
470931020	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Knox	36.01944	-83.87361
470990002	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Lawrence	35.116111	-87.47
471050108	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Loudon	35.7447	-84.3174
471071002	R & P Model 2025 PM2.5 Sequential w/WINS	TN	McMinn	35.451111	-84.599167
471130006	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Madison	35.653651	-88.809084
471192007	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Maury	35.643611	-87.013056
471251009	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Montgomery	36.514444	-87.327778
471251010	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Montgomery	36.625	-87.169167
471410001	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Putnam	36.173611	-85.509444
471450004	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Roane	35.9386	-84.5438
471570014	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Shelby	35.085833	-89.949444
471570038	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Shelby	35.184167	-89.930278
471570047	R & P Model 2000 PM2.5 Sampler w/WINS	TN	Shelby	35.16895	-90.021567
471570047	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Shelby	35.16895	-90.021567
471571004	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Shelby	35.377222	-89.832222
471631007	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Sullivan	36.540654	-82.521667
471650007	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Sumner	36.297778	-86.652778
480370004	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Bowie	33.425757	-94.070807
480430002	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Brewster	30.3658	-103.6491
480430101	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Brewster	29.3025	-103.16782
480612002	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Cameron	26.135172	-97.630039
480612004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Cameron	26.073333	-97.166667
481130035	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.916667	-96.768611
481130050	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.774167	-96.797778
481130057	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.7789	-96.873056
481130069	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.819952	-96.860082
481130087	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.6766	-96.8716
481133004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.7106	-96.8033
481350003	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Ector	31.826578	-102.34198
481390015	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Ellis	32.436944	-97.025
481390016	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Ellis	32.481944	-97.0275
481410037	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	El Paso	31.768274	-106.5012
481410044	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	El Paso	31.765673	-106.45523
481410053	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	El Paso	31.758516	-106.50105
481410055	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	El Paso	31.746752	-106.40281
481670014	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Galveston	29.263319	-94.856568
481830001	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Gregg	32.37871	-94.711833
482010024	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.901111	-95.326944
482010026	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.8025	-95.12555
482010055	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Harris	29.695736	-95.499236
482010058	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.770686	-95.031215
482011034	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.767993	-95.220576
482011035	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.733713	-95.257591
482030002	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Harrison	32.669003	-94.167449
482150042	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Hidalgo	26.309858	-98.183101
482150043	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Hidalgo	26.226238	-98.291064
482430004	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Jeff Davis	30.66938	-104.02463
482450021	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Jefferson	29.922778	-93.908889
482450022	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Jefferson	29.863951	-94.317757
482570005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Kaufman	32.569167	-96.315833
482730314	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Kleberg	27.42694	-97.29861

483030001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Lubbock	33.590851	-101.84759
483390078	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Montgomery	30.3503	-95.425135
483550032	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Nueces	27.8044	-97.4317
483550034	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Nueces	27.8118	-97.465633
483611001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Orange	30.084444	-93.761667
483611100	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Orange	30.194167	-93.866944
483750005	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Potter	35.209963	-101.83192
483750320	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Potter	35.201588	-101.90924
484391002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Tarrant	32.805	-97.356389
484391006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Tarrant	32.758889	-97.342222
484393006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Tarrant	32.693056	-97.248611
484530020	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Travis	30.483159	-97.872266
490030003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Box Elder	41.492778	-112.01806
490037001	R & P Model 2000 PM2.5 Sampler w/WINS	UT	Box Elder	41.94595	-112.23318
490050004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Cache	41.731111	-111.8375
490050005	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Cache	41.8594	-111.8952
490050006	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Cache	41.63546	-111.86819
490110004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Davis	40.902967	-111.88447
490350003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.646667	-111.84972
490350012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.8075	-111.92111
490351001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.708611	-112.09472
490353006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.736389	-111.87222
490353007	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Salt Lake	40.704444	-111.96861
490353007	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.704444	-111.96861
490353008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.517946	-112.02305
490450003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Tooele	40.543371	-112.29881
490490002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Utah	40.253611	-111.66306
490494001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Utah	40.341389	-111.71361
490495008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Utah	40.430278	-111.80389
490495010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Utah	40.136389	-111.65972
490570002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Weber	41.206389	-111.97472
490570007	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Weber	41.179722	-111.98306
490571003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Weber	41.303683	-111.98707
500010002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Addison	43.926516	-73.384638
500010003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Addison	43.867686	-73.356172
500030004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Bennington	42.88759	-73.24984
500070012	R & P Model 2025 PM2.5 Sequential w/WINS	VT	Chittenden	44.480278	-73.214444
500070012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Chittenden	44.480278	-73.214444
500070014	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Chittenden	44.4762	-73.2106
500210002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Rutland	43.608056	-72.982778
510130020	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Arlington	38.8575	-77.059167
510360002	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Charles City	37.343294	-77.260034
510410003	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Chesterfield	37.436111	-77.450833
510590030	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Fairfax	38.772778	-77.105556
510591005	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Fairfax	38.837517	-77.163231
510595001	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Fairfax	38.931944	-77.198889
510870014	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Henrico	37.558333	-77.400278
510870015	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Henrico	37.670278	-77.5675
511071005	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Loudoun	39.024444	-77.49
511390004	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Page	38.663333	-78.504722
515200006	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Bristol City	36.607778	-82.164444
516500004	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Hampton City	37.003333	-76.399167

516800015	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Lynchburg City	37.3605	-79.1883
517100024	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Norfolk City	36.857778	-76.301667
517700014	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Roanoke City	37.256111	-79.985
517750010	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Salem City	37.291944	-80.056944
518100008	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Virginia Beach City	36.841111	-76.181389
530050002	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Benton	46.218611	-119.20556
530070010	R & P Model 2000 PM2.5 Sampler w/WINS	WA	Chelan	47.598863	-120.6647
530110013	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Clark	45.648333	-122.58694
530330024	R & P Model 2025 PM2.5 Sequential w/WINS	WA	King	47.755	-122.2806
530330057	R & P Model 2025 PM2.5 Sequential w/WINS	WA	King	47.563333	-122.3406
530330080	R & P Model 2025 PM2.5 Sequential w/WINS	WA	King	47.570273	-122.3086
530470009	R & P Model 2000 PM2.5 Sampler w/WINS	WA	Okanogan	48.364267	-120.12112
530530029	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Pierce	47.1864	-122.4517
530610005	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Snohomish	47.8064	-122.3167
530611007	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Snohomish	48.055556	-122.1758
530630016	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Spokane	47.660833	-117.35722
530630047	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Spokane	47.701111	-117.425
540030003	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Berkeley	39.448006	-77.964125
540090005	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Brooke	40.338056	-80.597222
540090005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Brooke	40.338056	-80.597222
540110006	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Cabell	38.42451	-82.425323
540290011	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Hancock	40.3945	-80.612034
540290011	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Hancock	40.3945	-80.612034
540291004	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Hancock	40.42154	-80.580898
540291004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Hancock	40.42154	-80.580898
540330003	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Harrison	39.278056	-80.3425
540330003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Harrison	39.278056	-80.3425
540390010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Kanawha	38.34562	-81.628422
540390011	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Kanawha	38.448611	-81.683889
540390011	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Kanawha	38.448611	-81.683889
540391005	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Kanawha	38.368056	-81.693611
540391005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Kanawha	38.368056	-81.693611
540490006	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Marion	39.480833	-80.135278
540490006	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Marion	39.480833	-80.135278
540511002	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Marshall	39.91597	-80.734057
540511002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Marshall	39.91597	-80.734057
540550002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Mercer	37.26732	-81.235857
540610003	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Monongalia	39.649444	-79.921111
540690010	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Ohio	40.1147	-80.70089
540690010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Ohio	40.1147	-80.70089
540810002	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Raleigh	37.80794	-81.197461
540810002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Raleigh	37.80794	-81.197461
540890001	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Summers	37.773056	-80.706667
540890001	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Summers	37.773056	-80.706667
541071002	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Wood	39.32366	-81.552196
541071002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Wood	39.32366	-81.552196
550030010	R & P Model 2000 PM2.5 Sampler w/WINS	WI	Ashland	46.61455	-90.69868
550090005	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Brown	44.516667	-87.993889
550090009	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Brown	44.523611	-88.001111
550250047	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Dane	43.073333	-89.435833
550250048	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Dane	43.093	-89.34005
550270007	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Dodge	43.435	-88.527778

550410007	R & P Model 2000 PM2.5 Sampler w/WINS	WI	Forest	45.56498	-88.80859
550410007	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Forest	45.56498	-88.80859
550430009	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Grant	42.69215	-90.68637
550590019	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Kenosha	42.504722	-87.8093
550630012	R & P Model 2025 PM2.5 Sequential w/WINS	WI	La Crosse	43.778	-91.225
550710007	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Manitowoc	44.138611	-87.616111
550790010	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	43.016667	-87.933333
550790026	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	43.061111	-87.9125
550790043	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	43.02641	-87.91111
550790059	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	42.955	-87.934167
550790099	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	43.039722	-87.920556
550870009	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Outagamie	44.306944	-88.395556
550890009	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Ozaukee	43.498056	-87.81
551091002	R & P Model 2025 PM2.5 Sequential w/WINS	WI	St Croix	45.124444	-92.6625
551110007	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Sauk	43.435556	-89.680278
551198001	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Taylor	45.203889	-90.6
551250001	R & P Model 2000 PM2.5 Sampler w/WINS	WI	Vilas	46.048056	-89.653611
551250001	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Vilas	46.048056	-89.653611
551330027	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Waukesha	43.020278	-88.215
551350004	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Waupaca	44.35288	-89.05083
560050877	R & P Model 2025 PM2.5 Sequential w/WINS	WY	Campbell	43.676944	-105.23583
560050892	R & P Model 2025 PM2.5 Sequential w/WINS	WY	Campbell	44.098889	-105.34278
560050899	R & P Model 2025 PM2.5 Sequential w/WINS	WY	Campbell	44.471944	-105.55583
560090819	R & P Model 2025 PM2.5 Sequential w/WINS	WY	Converse	43.426667	-105.38583
560131003	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Fremont	42.841111	-108.73556
560210001	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Laramie	41.14	-104.81722
560330001	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Sheridan	44.797222	-106.94917
560330002	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Sheridan	44.833333	-106.96389
560330003	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Sheridan	44.805556	-106.97556
560350705	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Sublette	42.8706	-109.8602
560390006	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Teton	43.480833	-110.76528
720010002	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Adjuntas	18.174712	-66.726516
720210009	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Bayamon	18.399167	-66.171667
720530003	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Fajardo	18.383333	-65.619444
720570008	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Guyama	17.957222	-66.165556
720590016	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Guyanilla	18.044444	-66.802778
720610005	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Guaynabo	18.439444	-66.115
720690001	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Humacao	18.152778	-65.829167
720970003	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Mayaguez	18.209722	-67.146389
721130004	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Ponce	18.008889	-66.627778
721270003	R & P Model 2025 PM2.5 Sequential w/WINS	PR	San Juan	18.449167	-66.053056
780100012	BGI Model PQ200 PM2.5 Sampler w/WINS	VI		17.714444	-64.785278
780300009	BGI Model PQ200 PM2.5 Sampler w/WINS	VI		18.345278	-64.923333

(N. B.: State abbreviations PR and VI refer to Puerto Rico and the Virgin Islands, respectively.)

Table A3. FRM Geographic Information for 2006

AQS_ID	FRM_Method	State	County	Latitude	Longitude
010030010	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Baldwin	30.497778	-87.881389
010270001	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Clay	33.281111	-85.802222
010331002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Colbert	34.760556	-87.650556
010491003	R & P Model 2025 PM2.5 Sequential w/WINS	AL	De Kalb	34.2875	-85.968333
010530002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Escambia	31.106389	-87.071111
010550010	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Etowah	33.993611	-85.991111
010690003	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Houston	31.226207	-85.390818
010730023	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.553056	-86.815
010730023	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.553056	-86.815
010731005	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.331111	-87.003611
010731005	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.331111	-87.003611
010731009	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.459722	-87.305556
010731009	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.459722	-87.305556
010731010	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.545278	-86.549167
010731010	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.545278	-86.549167
010732003	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.499722	-86.924167
010732003	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.499722	-86.924167
010732006	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.386389	-86.816667
010735002	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.704722	-86.669167
010735002	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.704722	-86.669167
010735003	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.801667	-86.9425
010735003	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.801667	-86.9425
010890014	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Madison	34.68767	-86.58637
010970002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	AL	Mobile	30.7663	-88.0757
010970003	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Mobile	30.769722	-88.0875
010972005	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Mobile	30.474444	-88.141111
011010007	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Montgomery	32.425833	-86.285278
011030011	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Morgan	34.51861	-86.976944
011130001	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Russell	32.476389	-84.999167
011170006	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Shelby	33.312778	-86.821111
011190002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Sumter	32.363889	-88.201944
011210002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Talladega	33.279444	-86.349444
011250004	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Tuscaloosa	33.18903	-87.484206
011270002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Walker	33.832778	-87.2725
020200018	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Anchorage	61.206667	-149.82083
020900010	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Fairbanks North Star	64.841111	-147.72
021100004	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Juneau	58.388889	-134.56556
021700008	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Matanuska-Susitna	61.534163	-149.03166
040031005	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	AZ	Cochise	31.348759	-109.53861
040051008	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	AZ	Coconino	35.205988	-111.6528
040070008	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	AZ	Gila	34.22934	-111.32942
040130019	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	AZ	Maricopa	33.48385	-112.14257
040131003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	AZ	Maricopa	33.41045	-111.86507
040134003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	AZ	Maricopa	33.40316	-112.07533
040137020	R & P Model 2000 PM2.5 Sampler w/WINS	AZ	Maricopa	33.488166	-111.85493
040139997	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	AZ	Maricopa	33.503643	-112.095
040190011	R & P Model 2025 PM2.5 Sequential w/WINS	AZ	Pima	32.32255	-111.0377
040191028	R & P Model 2025 PM2.5 Sequential w/WINS	AZ	Pima	32.29515	-110.9823
040210001	R & P Model 2000 PM2.5 Sampler w/WINS	AZ	Pinal	32.878611	-111.75167

040213002	R & P Model 2025 PM2.5 Sequential w/WINS	AZ	Pinal	33.421944	-111.5025
040230004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	AZ	Santa Cruz	31.337204	-110.93672
050010011	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Arkansas	34.518392	-91.558826
050030005	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Ashley	33.139444	-91.95
050350005	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Crittenden	35.196667	-90.191111
050450002	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Faulkner	35.090833	-92.401667
050510003	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Garland	34.470732	-93.064585
050670001	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Jackson	35.381618	-91.112267
051070001	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Phillips	34.528889	-90.585556
051130002	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Polk	34.585278	-94.226111
051150003	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Pope	35.292222	-93.139167
051190007	R & P Model 2025 PM2.5 Sequential w/WINS	AR	Pulaski	34.756111	-92.275833
051191004	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Pulaski	34.729167	-92.243333
051191005	R & P Model 2025 PM2.5 Sequential w/WINS	AR	Pulaski	34.676268	-92.337164
051310008	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Sebastian	35.388333	-94.411944
051390006	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Union	33.215	-92.668889
051450001	R & P Model 2000 PM2.5 Sampler w/WINS	AR	White	35.248611	-91.715278
060010007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Alameda	37.6875	-121.7842
060011001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Alameda	37.5358	-121.9619
060070002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Butte	39.7575	-121.84222
060090001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Calaveras	38.201944	-120.68056
060111002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Colusa	39.203056	-122.01667
060130002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Contra Costa	37.936	-122.0262
060190008	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Fresno	36.781389	-119.77222
060190008	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Fresno	36.781389	-119.77222
060195001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Fresno	36.819167	-119.71639
060195025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Fresno	36.727083	-119.73206
060231002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Humboldt	40.801666	-124.16194
060231004	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Humboldt	40.776944	-124.1775
060250005	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Imperial	32.676111	-115.48333
060250005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Imperial	32.676111	-115.48333
060250007	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Imperial	32.97835	-115.53829
060250007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Imperial	32.97835	-115.53829
060251003	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Imperial	32.791667	-115.56167
060251003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Imperial	32.791667	-115.56167
060271003	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Inyo	36.487778	-117.87056
060290010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kern	35.385556	-119.01472
060290011	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Kern	35.050556	-118.14639
060290011	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kern	35.050556	-118.14639
060290014	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Kern	35.356111	-119.04028
060290015	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Kern	35.623889	-117.67722
060290015	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kern	35.623889	-117.67722
060290016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kern	35.324722	-118.99917
060310004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kings	36.101389	-119.56583
060333001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Lake	39.031389	-122.92222
060370002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.1365	-117.92391
060371002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.17605	-118.31712
060371103	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.06659	-118.22688
060371201	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.19925	-118.53276
060371301	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	33.92899	-118.21071
060371602	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.01407	-118.06995
060372005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.1326	-118.1272

060374002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	33.82376	-118.18921
060374004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	33.79236	-118.17533
060379033	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Los Angeles	34.671389	-118.13056
060379033	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.671389	-118.13056
060450006	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Mendocino	39.150556	-123.205
060472510	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Merced	37.309167	-120.48056
060531003	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Monterey	36.69683	-121.63617
060531003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Monterey	36.69683	-121.63617
060570005	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Nevada	39.234444	-121.05556
060571001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Nevada	39.338611	-120.17028
060571001	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Nevada	39.338611	-120.17028
060590007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Orange	33.83062	-117.93845
060592022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Orange	33.63003	-117.67593
060610006	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Placer	38.745833	-121.26528
060631006	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Plumas	39.937222	-120.93778
060631006	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Plumas	39.937222	-120.93778
060631009	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Plumas	39.808333	-120.47167
060651003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.94603	-117.40063
060652002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.70853	-116.21537
060655001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.85275	-116.54101
060658001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.99958	-117.41601
060658005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.995638	-117.4933
060670006	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Sacramento	38.614167	-121.36694
060670010	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Sacramento	38.558333	-121.49194
060674001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Sacramento	38.555833	-121.45722
060710025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.037222	-117.69
060710306	R & P Model 2000 PM2.5 Sampler w/WINS	CA	San Bernardino	34.51	-117.33056
060710306	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.51	-117.33056
060712002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.10002	-117.49201
060718001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.264444	-116.86444
060719004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.10688	-117.27411
060730001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.622778	-117.05611
060730003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.791389	-116.94167
060730006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.828333	-117.13333
060731002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	33.127778	-117.07417
060731010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.701389	-117.15278
060750005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Francisco	37.766	-122.3991
060771002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	San Joaquin	37.950833	-121.2675
060792006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Luis Obispo	35.256606	-120.66889
060798001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	San Luis Obispo	35.491389	-120.66806
060811001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Mateo	37.4829	-122.2034
060830011	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Santa Barbara	34.427776	-119.69028
060831008	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Santa Barbara	34.949167	-120.43667
060850005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Santa Clara	37.3485	-121.895
060852003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Santa Clara	37.3062	-121.8489
060870007	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Santa Cruz	36.984	-121.9883
060870007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Santa Cruz	36.984	-121.9883
060890004	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Shasta	40.549722	-122.37917
060932001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Siskiyou	41.728333	-122.63444
060950004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Solano	38.1027	-122.2382
060970003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Sonoma	38.4435	-122.71
060990005	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Stanislaus	37.641667	-120.99361

061010003	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Sutter	39.138889	-121.6175
061072002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Tulare	36.332222	-119.29028
061072002	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Tulare	36.332222	-119.29028
061110007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Ventura	34.21	-118.86944
061110009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Ventura	34.404611	-118.81
061112002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Ventura	34.2775	-118.68472
061113001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Ventura	34.255	-119.1425
061131003	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Yolo	38.661944	-121.72778
080010006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Adams	39.825739	-104.93699
080050005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Arapahoe	39.604406	-105.01952
080070001	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Archuleta	37.268056	-107.02111
080130003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Boulder	40.165833	-105.10111
080130012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Boulder	40.021104	-105.26335
080290004	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Delta	38.739167	-108.07278
080310002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Denver	39.751185	-104.98762
080310023	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Denver	39.778739	-104.95627
080350004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Douglas	39.53448	-105.07035
080390001	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	CO	Elbert	39.231944	-104.63472
080410008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	El Paso	38.898056	-104.76139
080410011	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	El Paso	38.831389	-104.82778
080510007	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Gunnison	38.900536	-106.96555
080690009	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Larimer	40.571236	-105.08012
080770017	R & P Model 2025 PM2.5 Sequential w/WINS	CO	Mesa	39.063625	-108.56102
080770017	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Mesa	39.063625	-108.56102
081010012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Pueblo	38.263611	-104.61222
081130004	R & P Model 2000 PM2.5 Sampler w/WINS	CO	San Miguel	37.9375	-107.81167
081230006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Weld	40.414722	-104.70611
081230008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Weld	40.209167	-104.82306
090010010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.170833	-73.194722
090011123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.399167	-73.443056
090013005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.1125	-73.407222
090019003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.118333	-73.336667
090031003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Hartford	41.784722	-72.631667
090050004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Litchfield	41.64486	-73.07908
090050005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Litchfield	41.821389	-73.297222
090090026	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.291111	-72.894167
090090027	R & P Model 2025 PM2.5 Sequential w/WINS	CT	New Haven	41.301111	-72.902778
090090027	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.301111	-72.902778
090091123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.310833	-72.916944
090092008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.331389	-72.919722
090092123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.550556	-73.043611
090113002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New London	41.524167	-72.076667
100010002	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	Kent	38.984722	-75.555556
100010003	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	Kent	39.155	-75.518056
100031003	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	New Castle	39.761111	-75.491944
100031007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DE	New Castle	39.551111	-75.730833
100031007	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	New Castle	39.551111	-75.730833
100031012	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	New Castle	39.691944	-75.761667
100032004	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	New Castle	39.739444	-75.558056
100051002	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	Sussex	38.644444	-75.613056
110010041	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DC	District Of Columbia	38.897222	-76.952778
110010042	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DC	District Of Columbia	38.880833	-77.0325

110010043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DC	District Of Columbia	38.918889	-77.0125
120010023	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Alachua	29.703333	-82.391389
120010024	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Alachua	29.658333	-82.408333
120051004	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Bay	30.144167	-85.614444
120090007	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Brevard	28.053889	-80.628611
120111002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Broward	26.082778	-80.237778
120112004	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Broward	26.217222	-80.127778
120113002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Broward	26.000833	-80.160556
120170005	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Citrus	28.980556	-82.7
120310098	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Duval	30.135556	-81.634167
120310099	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Duval	30.355833	-81.548056
120330004	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Escambia	30.525	-87.204167
120330027	BGI Model PQ200 PM2.5 Sampler w/WINS	FL	Escambia	30.4678	-87.3316
120330028	BGI Model PQ200 PM2.5 Sampler w/WINS	FL	Escambia	30.4641	-87.3287
120330029	BGI Model PQ200 PM2.5 Sampler w/WINS	FL	Escambia	30.4594	-87.3285
120330030	BGI Model PQ200 PM2.5 Sampler w/WINS	FL	Escambia	30.4589	-87.334
120570030	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Hillsborough	27.931944	-82.509722
120573002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Hillsborough	27.96565	-82.2304
120710005	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Lee	26.602778	-81.878889
120730012	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Leon	30.439722	-84.348333
120814012	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Manatee	27.480556	-82.618889
120830003	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Marion	29.170278	-82.100833
120860033	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Miami-Dade	25.94167	-80.32639
120861016	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Miami-Dade	25.794167	-80.206111
120866001	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Miami-Dade	25.471389	-80.483333
120951004	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Orange	28.550833	-81.345556
120952002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Orange	28.599444	-81.363056
120990008	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Palm Beach	26.724444	-80.666667
120990009	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Palm Beach	26.731	-80.234
120992005	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Palm Beach	26.457778	-80.093057
121030018	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Pinellas	27.785556	-82.74
121031009	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Pinellas	27.985945	-82.782231
121056006	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Polk	28.029167	-81.972222
121111002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	St Lucie	27.448889	-80.40833
121150013	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Sarasota	27.290556	-82.5075
121171002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Seminole	28.745556	-81.31
121275002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Volusia	29.206667	-81.053056
130210007	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Bibb	32.777231	-83.641242
130210007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Bibb	32.777231	-83.641242
130210012	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Bibb	32.805244	-83.543628
130510017	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Chatham	32.092778	-81.144167
130510017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Chatham	32.092778	-81.144167
130510091	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Chatham	32.11058	-81.162024
130590002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Clarke	33.917925	-83.344512
130630091	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Clayton	33.609722	-84.391111
130670003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Cobb	34.015346	-84.607484
130670004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Cobb	33.899182	-84.661589
130890002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	De Kalb	33.688007	-84.290325
130892001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	De Kalb	33.901251	-84.279989
130892001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	De Kalb	33.901251	-84.279989
130950007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Dougherty	31.576917	-84.100194
131150005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Floyd	34.263198	-85.304826

131210032	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Fulton	33.819424	-84.389791
131210032	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Fulton	33.819424	-84.389791
131210039	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Fulton	33.802189	-84.435658
131210048	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Fulton	33.779189	-84.395843
131270006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Glynn	31.16953	-81.496046
131350002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Gwinnett	33.963074	-84.069193
131390003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Hall	34.300342	-83.8139
131530001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Houston	32.6056	-83.597907
131850003	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Lowndes	30.848056	-83.294444
131850003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Lowndes	30.848056	-83.294444
132150001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Muscogee	32.483543	-84.980977
132150001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Muscogee	32.483543	-84.980977
132150008	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Muscogee	32.521099	-84.944695
132150008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Muscogee	32.521099	-84.944695
132150011	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Muscogee	32.430944	-84.931818
132230003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Paulding	33.92855	-85.04548
132450005	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Richmond	33.469018	-81.991581
132450005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Richmond	33.469018	-81.991581
132450091	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Richmond	33.433883	-82.022414
132950002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Walker	34.966557	-85.297229
133030001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Washington	32.974722	-82.808889
133190001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Wilkinson	32.881667	-83.333889
150030010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Honolulu	21.329167	-158.09333
150031001	R & P Model 2025 PM2.5 Sequential w/WINS	HI	Honolulu	21.310278	-157.85806
150031001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Honolulu	21.310278	-157.85806
150031004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Honolulu	21.305	-157.87333
150032004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Honolulu	21.396667	-157.97167
150090006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Maui	20.780997	-156.44637
160010010	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Ada	43.607568	-116.34843
160010011	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Ada	43.636111	-116.27028
160050015	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Bannock	42.876725	-112.46035
160050018	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Bannock	42.796463	-112.25812
160090010	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Benewah	47.316667	-116.57028
160090011	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ID	Benewah	47.338702	-116.88461
160270004	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Canyon	43.562401	-116.56323
160270004	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Canyon	43.562401	-116.56323
160270008	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Canyon	43.787147	-116.95958
160410001	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Franklin	42.013333	-111.80917
160410002	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Franklin	42.082222	-111.86417
160450001	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Gem	43.856442	-116.51546
160490003	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Idaho	46.2094	-116.0275
160790017	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Shoshone	47.536389	-116.23667
170010006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Adams	39.935025	-91.404232
170190004	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Champaign	40.125657	-88.229532
170191001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Champaign	40.054198	-88.372552
170310022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.689195	-87.539318
170310050	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.709561	-87.568576
170310052	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.967429	-87.749819
170310057	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.914733	-87.722725
170310076	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.751369	-87.713745
170311016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.801111	-87.831944
170312001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.663997	-87.696468

170313103	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.965278	-87.876389
170313301	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.782778	-87.805278
170314007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	42.060278	-87.863333
170314201	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	42.14	-87.799167
170316005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.864257	-87.74888
170434002	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Du Page	41.771195	-88.152502
170650002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Hamilton	38.083942	-88.624942
170831001	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Jersey	39.110312	-90.324168
170890003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Kane	42.050278	-88.280278
170890007	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Kane	41.786586	-88.329376
170971007	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Lake	42.467535	-87.810024
170990007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	La Salle	41.293125	-89.049242
171110001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Mc Henry	42.221421	-88.2421
171132003	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Mc Lean	40.520584	-88.996898
171150013	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Macon	39.866944	-88.925556
171190023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Madison	38.69948	-90.143433
171191007	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Madison	38.704444	-90.139444
171192009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Madison	38.902778	-90.143056
171193007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Madison	38.860645	-90.105754
171430037	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Peoria	40.698886	-89.584741
171570001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Randolph	38.178	-89.788455
171613002	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Rock Island	41.514722	-90.517222
171630010	R & P Model 2000 PM2.5 Sampler w/WINS	IL	St Clair	38.612222	-90.160278
171634001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	St Clair	38.529444	-89.993056
171670012	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Sangamon	39.833792	-89.644167
171971002	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Will	41.526667	-88.116389
171971011	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Will	41.221592	-88.190948
172010013	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Winnebago	42.265109	-89.092776
180030004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Allen	41.094722	-85.101944
180030014	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Allen	41.050556	-85.149722
180190006	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Clark	38.277675	-85.740153
180350006	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Delaware	40.201111	-85.388056
180370004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Dubois	38.369436	-86.959031
180370005	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Dubois	38.404778	-86.928322
180372001	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Dubois	38.391389	-86.929167
180390003	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Elkhart	41.667778	-85.969444
180431004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Floyd	38.308056	-85.834167
180650003	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Henry	40.011667	-85.523611
180670003	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Howard	40.485556	-86.132778
180830004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Knox	38.740833	-87.484722
180890006	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.636111	-87.440833
180890022	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.606667	-87.304722
180890026	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.573056	-87.405833
180890027	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.546667	-87.426389
180890031	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.598505	-87.342991
180891003	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.588889	-87.407778
180892004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.585278	-87.474444
180892010	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.678333	-87.508333
180910011	R & P Model 2025 PM2.5 Sequential w/WINS	IN	La Porte	41.706944	-86.891111
180910012	R & P Model 2025 PM2.5 Sequential w/WINS	IN	La Porte	41.602222	-86.730278
180950009	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Madison	40.111944	-85.68
180970042	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.646254	-86.248784

180970043	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.744957	-86.166496
180970066	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.760437	-86.108848
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.811097	-86.114469
180970079	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.893611	-86.040556
180970081	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.788903	-86.214628
180970083	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.774944	-86.122053
181270020	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Porter	41.631389	-87.086944
181270024	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Porter	41.6175	-87.199167
181410014	R & P Model 2025 PM2.5 Sequential w/WINS	IN	St Joseph	41.663333	-86.207778
181410015	R & P Model 2025 PM2.5 Sequential w/WINS	IN	St Joseph	41.696692	-86.214683
181411008	R & P Model 2025 PM2.5 Sequential w/WINS	IN	St Joseph	41.693611	-86.236667
181412004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	St Joseph	41.694444	-86.2875
181470009	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Spencer	38.1675	-86.983333
181570008	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Tippecanoe	40.431639	-86.8525
181630006	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vanderburgh	37.971667	-87.567222
181630012	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vanderburgh	38.021667	-87.569444
181630016	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vanderburgh	37.974444	-87.532222
181670018	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vigo	39.486111	-87.401389
181670023	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vigo	39.456111	-87.370556
190130008	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Black Hawk	42.493056	-92.343889
190170011	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Bremer	42.743056	-92.513056
190450019	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Clinton	41.823056	-90.211944
190450021	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Clinton	41.874972	-90.177444
191032001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Johnson	41.657361	-91.503472
191130037	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Linn	42.008333	-91.678611
191370002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Montgomery	40.971211	-95.043868
191390015	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Muscatine	41.400833	-91.067778
191471002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Palo Alto	43.123333	-94.693333
191530030	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Polk	41.603132	-93.643234
191530059	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Polk	41.583262	-93.583828
191532510	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Polk	41.603479	-93.747821
191550009	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Pottawattamie	41.264167	-95.895833
191550009	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Pottawattamie	41.264167	-95.895833
191630015	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Scott	41.53	-90.5875
191630015	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Scott	41.53	-90.5875
191630018	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Scott	41.55	-90.6
191630019	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Scott	41.517778	-90.618611
191770006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Van Buren	40.695078	-92.006318
191930017	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Woodbury	42.517222	-96.386389
191970004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Wright	42.695387	-93.655982
200910007	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Johnson	38.974444	-94.686944
200910009	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Johnson	38.863056	-94.768889
200910010	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Johnson	38.83859	-94.74643
201070002	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Linn	38.135833	-94.731944
201730008	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Sedgwick	37.659722	-97.297222
201730009	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Sedgwick	37.651111	-97.362222
201730010	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Sedgwick	37.701111	-97.313889
201770010	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Shawnee	39.04	-95.691667
201770011	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Shawnee	39.021389	-95.748333
201770013	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Shawnee	39.02427	-95.71128
201910002	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Sumner	37.476944	-97.366389
202090021	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Wyandotte	39.1175	-94.635556

202090022	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Wyandotte	39.045833	-94.694444
210130002	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Bell	36.608056	-83.736944
210190017	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Boyd	38.459167	-82.640556
210290006	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Bullitt	37.985556	-85.713056
210370003	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Campbell	39.065556	-84.451944
210430500	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Carter	38.238333	-82.988333
210470006	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Christian	36.911667	-87.323611
210590005	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Daviess	37.780833	-87.075556
210610501	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Edmonson	37.131389	-86.148056
210670012	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Fayette	38.065	-84.5
210670014	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Fayette	38.038889	-84.5075
210730006	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Franklin	38.219361	-84.8385
210930006	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Hardin	37.706389	-85.851667
211010014	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Henderson	37.871389	-87.463333
211110043	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Jefferson	38.233222	-85.825278
211110044	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Jefferson	38.190833	-85.780556
211110048	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Jefferson	38.240556	-85.731667
211110051	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Jefferson	38.060833	-85.896111
211170007	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Kenton	39.0725	-84.525
211250004	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Laurel	37.087222	-84.063333
211451004	R & P Model 2025 PM2.5 Sequential w/WINS	KY	McCracken	37.065556	-88.637778
211510003	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Madison	37.738056	-84.285556
211830032	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Ohio	37.319725	-86.956097
211930003	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Perry	37.283056	-83.220278
211950002	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Pike	37.482778	-82.535278
212270007	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Warren	36.993333	-86.418333
220170008	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Caddo	32.471666	-93.794999
220190009	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Calcasieu	30.227778	-93.578333
220190010	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Calcasieu	30.177143	-93.214514
220290003	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Concordia	31.574236	-91.455236
220330009	R & P Model 2025 PM2.5 Sequential w/WINS	LA	East Baton Rouge	30.461111	-91.176944
220331001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	East Baton Rouge	30.587222	-91.206944
220470005	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Iberville	30.217778	-91.060556
220470009	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Iberville	30.220556	-91.316111
220511001	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Jefferson	30.043333	-90.275
220511001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Jefferson	30.043333	-90.275
220512001	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Jefferson	29.883056	-90.083333
220512001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Jefferson	29.883056	-90.083333
220518106	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Jefferson	29.999264	-90.211619
220518107	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Jefferson	29.9198	-90.231783
220550006	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Lafayette	30.274833	-92.0172
220550007	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Lafayette	30.2175	-92.051389
220710010	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	29.9555	-90.12166
220710012	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	29.994444	-90.102778
220718105	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	30.016905	-89.927185
220718106	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	30.032329	-90.045465
220718401	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	29.96249	-90.05689
220730004	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Ouachita	32.509713	-92.046093
220790002	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Rapides	31.177638	-92.410611
220870004	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	St Bernard	29.941667	-89.933333
220870007	R & P Model 2025 PM2.5 Sequential w/WINS	LA	St Bernard	29.94475	-89.976263
220878103	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	St Bernard	29.971443	-89.998605

221038400	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	St Tammany	30.31445	-89.81415
221050001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Tangipahoa	30.503056	-90.376944
221090001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Terrebonne	29.678883	-90.779967
221210001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	West Baton Rouge	30.501944	-91.209722
230010011	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Androscoggin	44.089444	-70.215
230030013	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Aroostook	47.355	-68.322778
230031011	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Aroostook	46.682222	-68.016111
230050015	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Cumberland	43.678056	-70.256667
230050027	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Cumberland	43.661944	-70.265833
230090103	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Hancock	44.37705	-68.2609
230110016	R & P Model 2000 PM2.5 Sampler w/WINS	ME	Kennebec	44.312222	-69.786389
230112006	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Kennebec	44.56817	-69.62083
230172011	R & P Model 2000 PM2.5 Sampler w/WINS	ME	Oxford	44.550833	-70.548333
230190002	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Penobscot	44.798849	-68.769745
240031003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Anne Arundel	39.169533	-76.627933
240051007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore	39.460833	-76.631111
240053001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore	39.310833	-76.474444
240150003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Cecil	39.701111	-75.86
240251001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Harford	39.41	-76.296667
240313001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Montgomery	39.114444	-77.106944
240330030	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Prince Georges	39.055277	-76.878333
240338003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Prince Georges	38.81194	-76.74417
240430009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Washington	39.565556	-77.721944
245100006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.340556	-76.582222
245100007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.344444	-76.685278
245100008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.28768	-76.547616
245100035	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.232778	-76.579722
245100040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.298056	-76.604722
250035001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Berkshire	42.451667	-73.255
250035001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Berkshire	42.451667	-73.255
250051004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Bristol	41.6857	-71.1698
250092006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Essex	42.474444	-70.9725
250095005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Essex	42.762778	-71.105833
250096001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Essex	42.698611	-71.165833
250096001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Essex	42.698611	-71.165833
250130008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Hampden	42.19446	-72.555711
250130016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Hampden	42.108889	-72.591389
250130016	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Hampden	42.108889	-72.591389
250132009	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Hampden	42.106	-72.597585
250170009	BGI Model PQ200 PM2.5 Sampler w/WINS	MA	Middlesex	42.62668	-71.362068
250170009	BGI Models PQ200-VSCC or PQ200A-VSCC	MA	Middlesex	42.62668	-71.362068
250230004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Plymouth	42.079722	-71.015278
250250002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Suffolk	42.348933	-71.097733
250250002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Suffolk	42.348933	-71.097733
250250027	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Suffolk	42.372928	-71.063311
250250042	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Suffolk	42.329444	-71.082778
250250043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Suffolk	42.362778	-71.054167
250250043	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Suffolk	42.362778	-71.054167
250270016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Worcester	42.259167	-71.799167
250270016	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Worcester	42.259167	-71.799167
250270023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Worcester	42.265802	-71.794835
250270023	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Worcester	42.265802	-71.794835

260050003	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Allegan	42.767778	-86.148611
260170014	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Bay	43.571389	-83.890833
260210014	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Berrien	42.197778	-86.309722
260330901	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Chippewa	46.493611	-84.364167
260330902	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Chippewa	46.481667	-84.331667
260330903	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Chippewa	46.454	-84.6067
260430002	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Dickinson	46.139444	-87.907222
260490021	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Genesee	43.04722	-83.670278
260650012	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Ingham	42.738611	-84.534722
260710001	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Iron	46.159883	-88.119627
260770008	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Kalamazoo	42.278056	-85.541944
260810020	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Kent	42.984167	-85.671389
260990009	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Macomb	42.731389	-82.793611
261010922	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Manistee	44.307	-86.24268
261130001	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Missaukee	44.310556	-84.891944
261150005	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Monroe	41.763889	-83.471944
261210040	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Muskegon	43.233056	-86.238611
261250001	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Oakland	42.463056	-83.183333
261390005	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Ottawa	42.894444	-85.852778
261470005	R & P Model 2025 PM2.5 Sequential w/WINS	MI	St Clair	42.953333	-82.456389
261610008	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Washtenaw	42.240556	-83.599722
261630001	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.228611	-83.208333
261630015	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.302778	-83.106667
261630016	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.3578	-83.09617
261630019	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.430833	-83.000278
261630025	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.423055	-83.426389
261630033	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.306666	-83.148889
261630036	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.18728	-83.15404
261630038	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.335	-83.1097
261630039	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.323333	-83.068611
270210001	R & P Model 2000 PM2.5 Sampler w/WINS	MN	Cass	47.159942	-94.150987
270370470	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Dakota	44.740751	-93.237293
270530050	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	45.001229	-93.267117
270530961	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.87753	-93.25882
270530963	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.955396	-93.25827
270530965	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	45.004478	-93.240046
270530968	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.893005	-93.233227
270531007	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	45.041815	-93.298729
270532006	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.950047	-93.342874
270953051	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Mille Lacs	46.207026	-93.759411
271095008	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Olmsted	43.996908	-92.450366
271230866	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Ramsey	44.899379	-93.017155
271230868	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Ramsey	44.952442	-93.098475
271230871	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Ramsey	44.961451	-93.035894
271377001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	St Louis	47.523355	-92.536305
271377550	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	St Louis	46.820199	-92.08941
271377551	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	St Louis	46.766667	-92.133056
271390505	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Scott	44.791437	-93.512534
271453052	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Stearns	45.549839	-94.13345
280010004	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Adams	31.560389	-91.39025
280110001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Bolivar	33.746056	-90.723028
280330002	R & P Model 2025 PM2.5 Sequential w/WINS	MS	De Soto	34.82166	-89.98783

280350004	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Forrest	31.323639	-89.287167
280458104	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Hancock	30.26892	-89.44933
280458105	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Hancock	30.40966	-89.44114
280458108	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Hancock	30.286737	-89.3743
280458201	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Hancock	30.393193	-89.580378
280470008	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Harrison	30.390139	-89.049722
280470008	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Harrison	30.390139	-89.049722
280478101	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Harrison	30.373678	-89.15513
280478102	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Harrison	30.449005	-89.052683
280478103	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Harrison	30.470916	-88.9827
280478106	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Harrison	30.40288	-88.87987
280478107	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Harrison	30.319695	-89.267386
280490010	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Hinds	32.385583	-90.140917
280490018	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Hinds	32.296806	-90.188306
280590006	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Jackson	30.378194	-88.533944
280590006	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Jackson	30.378194	-88.533944
280670002	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Jones	31.688444	-89.135056
280750003	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Lauderdale	32.364389	-88.731444
280810005	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Lee	34.264917	-88.766222
280870001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Lowndes	33.490972	-88.418528
290190004	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Boone	38.956389	-92.321667
290210005	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Buchanan	39.741667	-94.858333
290370003	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Cass	38.770278	-94.58
290390001	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Cedar	37.695833	-94.0375
290470005	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Clay	39.303056	-94.376389
290770032	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Greene	37.205278	-93.283333
290950010	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Jackson	39.036	-94.5741
290950034	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Jackson	39.104722	-94.570556
290990012	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Jefferson	38.437778	-90.361389
291370001	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Monroe	39.473056	-91.789167
291831002	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Charles	38.8725	-90.226389
291860006	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Ste Genevieve	37.967222	-90.051111
291890004	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis	38.5325	-90.382778
291892003	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis	38.649722	-90.350556
295100007	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis City	38.5425	-90.263611
295100085	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis City	38.6563	-90.1981
295100086	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis City	38.672222	-90.238889
295100087	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis City	38.642444	-90.185583
300131026	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Cascade	47.502222	-111.27889
300290009	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Flathead	48.399722	-114.33361
300290047	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Flathead	48.2025	-114.30556
300310006	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Gallatin	45.726314	-111.0673
300310008	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Gallatin	45.772778	-111.1775
300310013	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Gallatin	44.657778	-111.09083
300490018	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Lewis And Clark	46.603889	-112.03528
300530018	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Lincoln	48.384167	-115.54806
300630021	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Missoula	47.1771	-113.4827
300630031	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Missoula	46.874912	-113.99525
300810007	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Ravalli	46.245633	-114.15886
300890007	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Sanders	47.596389	-115.32361
300930005	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Silver Bow	46.0025	-112.5
301111065	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Yellowstone	45.801944	-108.42611

310550019	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Douglas	41.247222	-95.975556
310550052	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Douglas	41.333056	-96.099722
310790004	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Hall	40.942099	-98.364967
311090022	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Lancaster	40.81259	-96.68302
311530007	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Sarpy	41.133613	-95.955835
311570003	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Scotts Bluff	41.865	-103.66444
311770002	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Washington	41.551136	-96.146753
320030022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.390775	-114.90681
320030298	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.052222	-115.05694
320030561	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.163994	-115.11393
320031019	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	35.785634	-115.35706
320032002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.191111	-115.12222
320310016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Washoe	39.525083	-119.80772
330012004	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Belknap	43.565278	-71.495833
330050007	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Cheshire	42.930556	-72.277778
330070014	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Coos	44.471111	-71.166667
330090010	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Grafton	43.62957	-72.226083
330111015	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Hillsborough	42.76186	-71.44455
330131006	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Merrimack	43.132444	-71.45827
330150014	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Rockingham	43.075278	-70.748056
330190003	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Sullivan	43.364444	-72.338333
340011006	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Atlantic	39.362641	-74.429345
340030003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Bergen	40.851667	-73.973333
340070003	R & P Model 2000 PM2.5 Sampler w/WINS	NJ	Camden	39.92304	-75.09762
340070003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Camden	39.92304	-75.09762
340071007	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Camden	39.98888	-75.049167
340130015	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Essex	40.731944	-74.205278
340155001	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Gloucester	39.825833	-75.289444
340171003	R & P Model 2000 PM2.5 Sampler w/WINS	NJ	Hudson	40.72545	-74.05229
340171003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Hudson	40.72545	-74.05229
340172002	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Hudson	40.773056	-74.031944
340210008	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Mercer	40.222222	-74.763611
340218001	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Mercer	40.3124	-74.8726
340230006	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Middlesex	40.47279	-74.42251
340270004	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Morris	40.803056	-74.483333
340273001	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Morris	40.78763	-74.6763
340292002	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Ocean	39.995	-74.165833
340310005	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Passaic	40.918611	-74.167778
340390004	R & P Model 2000 PM2.5 Sampler w/WINS	NJ	Union	40.64144	-74.20836
340390004	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Union	40.64144	-74.20836
340390006	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Union	40.673056	-74.213611
340392003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Union	40.60607	-74.27498
340410006	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Warren	40.687222	-75.181389
350010023	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Bernalillo	35.13426	-106.58551
350010024	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Bernalillo	35.0631	-106.57879
350050005	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Chaves	33.396944	-104.52361
350130017	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Dona Ana	31.795833	-106.5575
350130025	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Dona Ana	32.321944	-106.76778
350171002	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Grant	32.784444	-108.27167
350250008	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Lea	32.726656	-103.12292
350431003	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Sandoval	35.238056	-106.64944
350439004	R & P Model 2000 PM2.5 Sampler w/WINS	NM	Sandoval	35.615278	-106.72444

350439011	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Sandoval	35.5064	-106.7222
350450006	R & P Model 2025 PM2.5 Sequential w/WINS	NM	San Juan	36.7275	-108.22083
350490020	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Santa Fe	35.671111	-105.95361
360010005	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Albany	42.6424	-73.75453
360050080	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Bronx	40.83608	-73.92021
360050083	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Bronx	40.86586	-73.88075
360050110	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Bronx	40.81616	-73.90207
360130011	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Chautauqua	42.29073	-79.58658
360290005	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Erie	42.87684	-78.80988
360291007	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Erie	42.82728	-78.84989
360310003	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Essex	44.39309	-73.85892
360470122	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Kings	40.7198	-73.94788
360551007	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Monroe	43.146198	-77.54813
360590008	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Nassau	40.63102	-73.73479
360610056	R & P Model 2025 PM2.5 Sequential w/WINS	NY	New York	40.75917	-73.96651
360610062	R & P Model 2025 PM2.5 Sequential w/WINS	NY	New York	40.72052	-74.00409
360610079	R & P Model 2025 PM2.5 Sequential w/WINS	NY	New York	40.79937	-73.93334
360610128	R & P Model 2025 PM2.5 Sequential w/WINS	NY	New York	40.73003	-73.98446
360632008	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Niagara	43.08216	-79.00099
360671015	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Onondaga	43.05238	-76.0592
360710002	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Orange	41.49947	-74.00973
360810124	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Queens	40.7362	-73.82317
360850055	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Richmond	40.63302	-74.13713
360850067	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Richmond	40.59733	-74.12619
360893001	R & P Model 2025 PM2.5 Sequential w/WINS	NY	St Lawrence	44.67778	-74.94999
361010003	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Steuben	42.09071	-77.21025
361030002	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Suffolk	40.74646	-73.4189
361191002	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Westchester	40.93006	-73.76924
370010002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Alamance	36.089004	-79.407821
370210034	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Buncombe	35.609722	-82.350833
370330001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Caswell	36.307033	-79.467417
370350004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Catawba	35.728889	-81.365556
370350006	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Catawba	35.7278	-81.3425
370370004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Chatham	35.757222	-79.159722
370510009	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Cumberland	35.041416	-78.953112
370570002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Davidson	35.814444	-80.2625
370610002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Duplin	34.954823	-77.960781
370630001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Durham	35.991944	-78.896389
370650004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Edgecombe	35.93355	-77.75007
370670022	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Forsyth	36.110556	-80.226667
370670030	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Forsyth	36.026	-80.342
370710016	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Gaston	35.253056	-81.153333
370810013	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Guilford	36.109167	-79.801111
370870010	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Haywood	35.489167	-82.9875
370990006	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Jackson	35.466667	-83.278056
371070004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Lenoir	35.231459	-77.568792
371110004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mc Dowell	35.687404	-81.993789
371170001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Martin	35.81069	-76.89782
371190041	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mecklenburg	35.240278	-80.785556
371190042	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mecklenburg	35.151389	-80.866944
371190043	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mecklenburg	35.3041	-80.88868
371210001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mitchell	35.915278	-82.073333

371230001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Montgomery	35.26	-79.84
371290002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	New Hanover	34.364167	-77.838611
371330005	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Onslow	34.772828	-77.42796
371350007	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Orange	35.901944	-79.056667
371470005	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Pitt	35.594167	-77.386111
371550005	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Robeson	34.6425	-78.990278
371590021	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Rowan	35.551868	-80.395039
371730002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Swain	35.435509	-83.443697
371830014	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Wake	35.856111	-78.574167
371890003	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Watauga	36.221944	-81.663056
371910005	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Wayne	35.369214	-77.993893
380070002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	Billings	46.8943	-103.37853
380150003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	Burleigh	46.825425	-100.76821
380150003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	ND	Burleigh	46.825425	-100.76821
380171004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	ND	Cass	46.933754	-96.85535
380530002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	McKenzie	47.5812	-103.2995
380570004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	Mercer	47.298611	-101.76694
390090003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Athens	39.4425	-81.908611
390170003	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	OH	Butler	39.493611	-84.353889
390170016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Butler	39.338333	-84.566389
390171004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Butler	39.53	-84.3925
390230005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Clark	39.928889	-83.809722
390250022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Clermont	39.082319	-84.144193
390350027	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.4775	-81.703056
390350034	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.555	-81.575
390350038	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.476944	-81.681944
390350045	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.471667	-81.657222
390350060	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.493955	-81.678542
390350065	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.446389	-81.661944
390351002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.395556	-81.818056
390490024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Franklin	39.998333	-82.993056
390490025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Franklin	39.928056	-82.981111
390490081	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Franklin	40.087778	-82.959722
390570005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Greene	39.808056	-83.886944
390610006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.278499	-84.365974
390610014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.194167	-84.478889
390610040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.128611	-84.504167
390610042	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.105	-84.551111
390610043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.290278	-84.414444
390617001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.16	-84.457778
390618001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.180278	-84.491944
390810017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Jefferson	40.366104	-80.615002
390811001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Jefferson	40.321944	-80.606389
390851001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lake	41.755	-81.273056
390853002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lake	41.7225	-81.241944
390870010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lawrence	38.519722	-82.665556
390930016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lorain	41.439444	-82.161667
390933002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lorain	41.463056	-82.114444
390950024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lucas	41.644167	-83.546667
390950025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lucas	41.661944	-83.479444
390950026	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lucas	41.620556	-83.641389
390990005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Mahoning	41.111111	-80.645278

390990014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Mahoning	41.095868	-80.658426
391030003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Medina	41.102778	-81.911667
391130031	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Montgomery	39.759444	-84.144444
391130032	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Montgomery	39.760278	-84.187778
391330002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Portage	41.164167	-81.235
391351001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Preble	39.835556	-84.720833
391450013	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Scioto	38.754167	-82.9175
391510017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Stark	40.786667	-81.394444
391510020	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Stark	40.800556	-81.373333
391530017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Summit	41.063333	-81.468611
391530023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Summit	41.088056	-81.541667
391550007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Trumbull	41.214167	-80.7875
400159008	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Caddo	35.111944	-98.252778
400219002	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Cherokee	35.855	-94.986111
400719010	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Kay	36.956731	-97.034369
400819005	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Lincoln	35.6725	-96.657222
400970186	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Mayes	36.304624	-95.310616
400979014	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Mayes	36.2284	-95.25
401010169	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Muskogee	35.755273	-95.377669
401090035	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Oklahoma	35.47292	-97.52709
401091037	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Oklahoma	35.614131	-97.475083
401159004	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Ottawa	36.922222	-94.838889
401210415	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Pittsburg	34.90227	-95.784375
401359015	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Sequoyah	35.58175	-94.829
401430110	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Tulsa	36.14004	-95.925382
401431127	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Tulsa	36.204902	-95.976537
410190002	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Douglas	43.22769	-123.3644
410290133	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Jackson	42.314078	-122.87924
410291001	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Jackson	42.536111	-122.875
410294001	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Jackson	42.426389	-122.85083
410330114	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Josephine	42.434139	-123.34849
410350004	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Klamath	42.188889	-121.7225
410390060	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Lane	44.026312	-123.08374
410391007	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Lane	43.833898	-123.03498
410391009	R & P Model 2000 PM2.5 Sampler w/WINS	OR	Lane	44.046696	-123.0177
410392013	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Lane	43.744352	-122.48052
410510080	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Multnomah	45.496667	-122.60222
410510246	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Multnomah	45.561301	-122.67878
410590121	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Umatilla	45.651944	-118.81861
410610119	R & P Model 2000 PM2.5 Sampler w/WINS	OR	Union	45.338972	-117.9048
410610119	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Union	45.338972	-117.9048
410670004	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Washington	45.52853	-122.97244
420010001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Adams	39.92	-77.31
420030008	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.465556	-79.961111
420030064	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.323611	-79.868333
420030067	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.381944	-80.185556
420030093	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.607222	-80.020833
420030095	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.486944	-80.188056
420031008	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.618611	-79.727222
420031301	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.4025	-79.860278
420033007	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.294444	-79.886667
420070014	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Beaver	40.747778	-80.316667

420110009	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Berks	40.320278	-75.926667
420110010	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Berks	40.392694	-75.925222
420170012	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Bucks	40.107222	-74.882222
420210011	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Cambria	40.309722	-78.915
420270100	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Centre	40.811389	-77.877028
420290100	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Chester	39.834444	-75.768611
420410101	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Cumberland	40.246528	-77.18675
420430401	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Dauphin	40.245	-76.844722
420450002	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Delaware	39.835556	-75.3725
420490003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Erie	42.14175	-80.038611
420692006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Lackawanna	41.442778	-75.623056
420710007	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Lancaster	40.046667	-76.283333
420850100	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Mercer	41.215	-80.485
420910013	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Montgomery	40.112222	-75.309167
420950025	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Northampton	40.628056	-75.341111
421010003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	39.944167	-75.166111
421010004	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PA	Philadelphia	40.008889	-75.097778
421010004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	40.008889	-75.097778
421010024	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PA	Philadelphia	40.076389	-75.011944
421010024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	40.076389	-75.011944
421010047	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PA	Philadelphia	39.944722	-75.166111
421010056	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	39.90583	-75.23972
421010136	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PA	Philadelphia	39.9275	-75.222778
421010136	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	39.9275	-75.222778
421250005	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Washington	40.146667	-79.902222
421250200	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Washington	40.170556	-80.261389
421255001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Washington	40.445278	-80.420833
421290008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Westmoreland	40.304694	-79.505667
421330008	R & P Model 2025 PM2.5 Sequential w/WINS	PA	York	39.965278	-76.699444
440030002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Kent	41.6156	-71.7199
440070022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Providence	41.807949	-71.415
440070022	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	RI	Providence	41.807949	-71.415
440070026	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Providence	41.874655	-71.379944
440070028	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Providence	41.80933	-71.40743
440071010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Providence	41.84092	-71.36094
450030003	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Aiken	33.342226	-81.788731
450130007	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Beaufort	32.436539	-80.677854
450190048	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Charleston	32.980254	-80.06501
450190049	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Charleston	32.790984	-79.958694
450250001	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Chesterfield	34.615367	-80.198787
450370001	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Edgefield	33.741693	-81.853633
450410002	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Florence	34.167636	-79.850404
450430009	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Georgetown	33.373994	-79.285697
450450008	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.838814	-82.402914
450450009	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.901046	-82.31307
450450011	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.884511	-82.359807
450450012	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.817197	-82.418487
450470003	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenwood	34.214556	-82.173146
450510002	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Horry	33.702771	-78.877478
450630008	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Lexington	34.052805	-81.15495
450730001	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Oconee	34.805261	-83.2377
450790007	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Richland	34.093959	-80.962304

450790019	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Richland	33.993299	-81.024141
450830010	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Spartanburg	34.926839	-82.00521
460110002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Brookings	44.310283	-96.80071
460130003	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Brown	45.4625	-98.486111
460290002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Codington	44.89965	-97.128802
460330132	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Custer	43.5578	-103.4839
460710001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Jackson	43.74561	-101.94122
460990006	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Minnehaha	43.544289	-96.726435
460990007	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Minnehaha	43.537626	-96.682001
461030016	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Pennington	44.064932	-103.20914
461030020	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Pennington	44.087397	-103.27378
461031001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Pennington	44.080295	-103.22855
470090011	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Blount	35.768333	-83.942222
470370023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Davidson	36.176326	-86.738902
470370025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Davidson	36.1	-86.734444
470370036	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Davidson	36.118251	-86.873547
470450004	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Dyer	36.052778	-89.381944
470650031	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Hamilton	34.990944	-85.22875
470651011	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Hamilton	35.233527	-85.181806
470654002	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Hamilton	35.050928	-85.292975
470930028	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Knox	35.943611	-84.038889
470931017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Knox	35.975	-83.954444
470931020	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Knox	36.01944	-83.87361
470990002	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Lawrence	35.116111	-87.47
471050108	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Loudon	35.7447	-84.3174
471071002	R & P Model 2025 PM2.5 Sequential w/WINS	TN	McMinn	35.451111	-84.599167
471130006	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Madison	35.653651	-88.809084
471192007	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Maury	35.643611	-87.013056
471251009	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Montgomery	36.514444	-87.327778
471251010	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Montgomery	36.625	-87.169167
471410001	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Putnam	36.173611	-85.509444
471410005	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Putnam	36.18572	-85.4922
471450004	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Roane	35.9386	-84.5438
471570014	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Shelby	35.085833	-89.949444
471570024	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Shelby	35.150833	-90.041389
471570038	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Shelby	35.184167	-89.930278
471570047	R & P Model 2000 PM2.5 Sampler w/WINS	TN	Shelby	35.16895	-90.021567
471571004	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Shelby	35.377222	-89.832222
471631007	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Sullivan	36.540654	-82.521667
471650007	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Sumner	36.297778	-86.652778
480370004	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Bowie	33.425757	-94.070807
480370004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Bowie	33.425757	-94.070807
480430101	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Brewster	29.3025	-103.16782
480430101	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Brewster	29.3025	-103.16782
480612004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Cameron	26.073333	-97.166667
481130050	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.774167	-96.797778
481130069	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.819952	-96.860082
481130087	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.6766	-96.8716
481350003	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Ector	31.826578	-102.34198
481350003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Ector	31.826578	-102.34198
481390016	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Ellis	32.481944	-97.0275
481410037	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	El Paso	31.768274	-106.5012

481410044	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	El Paso	31.765673	-106.45523
481410053	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	El Paso	31.758516	-106.50105
482010024	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.901111	-95.326944
482010058	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.770686	-95.031215
482011035	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.733713	-95.257591
482030002	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Harrison	32.669003	-94.167449
482030002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harrison	32.669003	-94.167449
482150043	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Hidalgo	26.226238	-98.291064
482150043	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Hidalgo	26.226238	-98.291064
482450021	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Jefferson	29.922778	-93.908889
483550032	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Nueces	27.8044	-97.4317
483550032	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Nueces	27.8044	-97.4317
483550034	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Nueces	27.8118	-97.465633
483550034	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Nueces	27.8118	-97.465633
483611001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Orange	30.084444	-93.761667
483750320	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Potter	35.201588	-101.90924
484391002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Tarrant	32.805	-97.356389
484391006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Tarrant	32.758889	-97.342222
484530020	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Travis	30.483159	-97.872266
490030003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Box Elder	41.492778	-112.01806
490037001	R & P Model 2000 PM2.5 Sampler w/WINS	UT	Box Elder	41.94595	-112.23318
490050004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Cache	41.731111	-111.8375
490050005	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Cache	41.8594	-111.8952
490050006	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Cache	41.63546	-111.86819
490110004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Davis	40.902967	-111.88447
490350003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.646667	-111.84972
490350012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.8075	-111.92111
490351001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.708611	-112.09472
490353006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.736389	-111.87222
490353007	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Salt Lake	40.704444	-111.96861
490353007	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.704444	-111.96861
490353008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.517946	-112.02305
490450003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Tooele	40.543371	-112.29881
490490002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Utah	40.253611	-111.66306
490490002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Utah	40.253611	-111.66306
490494001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Utah	40.341389	-111.71361
490495008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Utah	40.430278	-111.80389
490495010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Utah	40.136389	-111.65972
490570002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Weber	41.206389	-111.97472
490570007	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Weber	41.179722	-111.98306
490571003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Weber	41.303683	-111.98707
500010002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Addison	43.926516	-73.384638
500010003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Addison	43.867686	-73.356172
500030004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Bennington	42.88759	-73.24984
500070012	R & P Model 2025 PM2.5 Sequential w/WINS	VT	Chittenden	44.480278	-73.214444
500070012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Chittenden	44.480278	-73.214444
500070014	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Chittenden	44.4762	-73.2106
500210002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Rutland	43.608056	-72.982778
510130020	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Arlington	38.8575	-77.059167
510360002	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Charles City	37.343294	-77.260034
510410003	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Chesterfield	37.436111	-77.450833
510590030	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Fairfax	38.772778	-77.105556

510591005	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Fairfax	38.837517	-77.163231
510595001	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Fairfax	38.931944	-77.198889
510870014	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Henrico	37.558333	-77.400278
510870015	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Henrico	37.670278	-77.5675
511071005	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Loudoun	39.024444	-77.49
511130003	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Madison	38.521944	-78.436111
511390004	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Page	38.663333	-78.504722
515200006	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Bristol City	36.607778	-82.164444
516500004	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Hampton City	37.003333	-76.399167
516800015	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Lynchburg City	37.3605	-79.1883
517100024	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Norfolk City	36.857778	-76.301667
517700014	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Roanoke City	37.256111	-79.985
517700015	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Roanoke City	37.297178	-79.95557
517750010	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Salem City	37.291944	-80.056944
518100008	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Virginia Beach City	36.841111	-76.181389
530330024	R & P Model 2025 PM2.5 Sequential w/WINS	WA	King	47.755	-122.2806
530330057	R & P Model 2025 PM2.5 Sequential w/WINS	WA	King	47.563333	-122.3406
530330080	R & P Model 2025 PM2.5 Sequential w/WINS	WA	King	47.570273	-122.3086
530530029	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Pierce	47.1864	-122.4517
530610005	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Snohomish	47.8064	-122.3167
530610020	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Snohomish	48.2469	-121.6031
530611007	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Snohomish	48.055556	-122.1758
530630016	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Spokane	47.660833	-117.35722
540030003	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Berkeley	39.448006	-77.964125
540030003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Berkeley	39.448006	-77.964125
540090005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Brooke	40.338056	-80.597222
540110006	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Cabell	38.42451	-82.425323
540290011	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Hancock	40.3945	-80.612034
540291004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Hancock	40.42154	-80.580898
540330003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Harrison	39.278056	-80.3425
540390010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Kanawha	38.34562	-81.628422
540390011	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Kanawha	38.448611	-81.683889
540391005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Kanawha	38.368056	-81.693611
540490006	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Marion	39.480833	-80.135278
540511002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Marshall	39.91597	-80.734057
540610003	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Monongalia	39.649444	-79.921111
540610003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Monongalia	39.649444	-79.921111
540690010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Ohio	40.1147	-80.70089
540810002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Raleigh	37.80794	-81.197461
541071002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Wood	39.32366	-81.552196
550030010	R & P Model 2000 PM2.5 Sampler w/WINS	WI	Ashland	46.61455	-90.69868
550090005	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Brown	44.516667	-87.993889
550090009	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Brown	44.523611	-88.001111
550250047	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Dane	43.073333	-89.435833
550250048	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Dane	43.093	-89.34005
550270007	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Dodge	43.435	-88.527778
550410007	R & P Model 2000 PM2.5 Sampler w/WINS	WI	Forest	45.56498	-88.80859
550430009	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Grant	42.69215	-90.68637
550590019	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Kenosha	42.504722	-87.8093
550630012	R & P Model 2025 PM2.5 Sequential w/WINS	WI	La Crosse	43.778	-91.225
550710007	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Manitowoc	44.138611	-87.616111
550790010	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	43.016667	-87.933333

550790026	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	43.061111	-87.9125
550790043	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	43.02641	-87.91111
550790059	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	42.955	-87.934167
550790099	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	43.039722	-87.920556
550870009	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Outagamie	44.306944	-88.395556
550890009	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Ozaukee	43.498056	-87.81
551091002	R & P Model 2025 PM2.5 Sequential w/WINS	WI	St Croix	45.124444	-92.6625
551110007	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Sauk	43.435556	-89.680278
551198001	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Taylor	45.203889	-90.6
551250001	R & P Model 2000 PM2.5 Sampler w/WINS	WI	Vilas	46.048056	-89.653611
551250001	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Vilas	46.048056	-89.653611
551330027	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Waukesha	43.020278	-88.215
551350004	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Waupaca	44.35288	-89.05083
560050877	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Campbell	43.676944	-105.23583
560050877	R & P Model 2025 PM2.5 Sequential w/WINS	WY	Campbell	43.676944	-105.23583
560050892	R & P Model 2025 PM2.5 Sequential w/WINS	WY	Campbell	44.098889	-105.34278
560050899	R & P Model 2025 PM2.5 Sequential w/WINS	WY	Campbell	44.471944	-105.55583
560090819	R & P Model 2025 PM2.5 Sequential w/WINS	WY	Converse	43.426667	-105.38583
560131003	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Fremont	42.841111	-108.73556
560210001	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Laramie	41.14	-104.81722
560330002	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Sheridan	44.833333	-106.96389
560330003	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Sheridan	44.805556	-106.97556
560350705	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Sublette	42.8706	-109.8602
560390006	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Teton	43.480833	-110.76528
720010002	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Adjuntas	18.174712	-66.726516
720210009	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Bayamon	18.399167	-66.171667
720530003	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Fajardo	18.383333	-65.619444
720570008	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Guyama	17.957222	-66.165556
720590016	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Guyanilla	18.044444	-66.802778
720610005	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Guaynabo	18.439444	-66.115
720690001	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Humacao	18.152778	-65.829167
720970003	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Mayaguez	18.209722	-67.146389
721130004	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Ponce	18.008889	-66.627778
721270003	R & P Model 2025 PM2.5 Sequential w/WINS	PR	San Juan	18.449167	-66.053056
780100012	BGI Model PQ200 PM2.5 Sampler w/WINS	VI		17.714444	-64.785278
780300009	BGI Model PQ200 PM2.5 Sampler w/WINS	VI		18.345278	-64.923333

(N. B.: State abbreviations PR and VI refer to Puerto Rico and the Virgin Islands, respectively.)

Table A4. FRM Geographic Information for 2007

AQS_ID	FRM_Method	State	County	Latitude	Longitude
010030010	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Baldwin	30.497778	-87.881389
010270001	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Clay	33.281111	-85.802222
010331002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Colbert	34.760556	-87.650556
010491003	R & P Model 2025 PM2.5 Sequential w/WINS	AL	De Kalb	34.2875	-85.968333
010530002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Escambia	31.106389	-87.071111
010550010	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Etowah	33.993611	-85.991111
010690003	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Houston	31.226207	-85.390818
010730023	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.553056	-86.815
010730023	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.553056	-86.815
010731005	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.331111	-87.003611
010731009	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.459722	-87.305556
010731009	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.459722	-87.305556
010731010	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.545278	-86.549167
010732003	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.499722	-86.924167
010732003	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.499722	-86.924167
010732006	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.386389	-86.816667
010732006	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.386389	-86.816667
010735002	BGI Model PQ200 PM2.5 Sampler w/WINS	AL	Jefferson	33.704722	-86.669167
010735002	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.704722	-86.669167
010735003	BGI Models PQ200-VSCC or PQ200A-VSCC	AL	Jefferson	33.801667	-86.9425
010890014	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Madison	34.68767	-86.58637
010970002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	AL	Mobile	30.7663	-88.0757
010970003	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Mobile	30.769722	-88.0875
010972005	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Mobile	30.474444	-88.141111
011010007	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Montgomery	32.425833	-86.285278
011030011	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Morgan	34.51861	-86.976944
011130001	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Russell	32.476389	-84.999167
011170006	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Shelby	33.312778	-86.821111
011190002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Sumter	32.363889	-88.201944
011210002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Talladega	33.279444	-86.349444
011250004	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Tuscaloosa	33.18903	-87.484206
011270002	R & P Model 2025 PM2.5 Sequential w/WINS	AL	Walker	33.832778	-87.2725
020200018	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Anchorage	61.206667	-149.82083
020900010	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Fairbanks North Star	64.841111	-147.72
021100004	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Juneau	58.388889	-134.56556
021700008	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Matanuska-Susitna	61.534163	-149.03166
022320002	R & P Model 2000 PM2.5 Sampler w/WINS	AK	Skagway-Hoonah-Angoon	59.46008	-135.31053
040031005	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	AZ	Cochise	31.348759	-109.53861
040051008	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	AZ	Coconino	35.205988	-111.6528
040070008	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	AZ	Gila	34.22934	-111.32942
040130019	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	AZ	Maricopa	33.48385	-112.14257
040131003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	AZ	Maricopa	33.41045	-111.86507
040134003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	AZ	Maricopa	33.40316	-112.07533
040137020	R & P Model 2000 PM2.5 Sampler w/WINS	AZ	Maricopa	33.488166	-111.85493
040139997	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	AZ	Maricopa	33.503643	-112.095
040190011	R & P Model 2025 PM2.5 Sequential w/WINS	AZ	Pima	32.32255	-111.0377
040191028	R & P Model 2025 PM2.5 Sequential w/WINS	AZ	Pima	32.29515	-110.9823
040210001	R & P Model 2000 PM2.5 Sampler w/WINS	AZ	Pinal	32.878611	-111.75167
040210001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	AZ	Pinal	32.878611	-111.75167

040213002	R & P Model 2025 PM2.5 Sequential w/WINS	AZ	Pinal	33.421944	-111.5025
040213002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	AZ	Pinal	33.421944	-111.5025
040230004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	AZ	Santa Cruz	31.337204	-110.93672
050010011	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Arkansas	34.518392	-91.558826
050030005	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Ashley	33.139444	-91.95
050350005	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Crittenden	35.196667	-90.191111
050450002	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Faulkner	35.090833	-92.401667
050510003	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Garland	34.470732	-93.064585
050930007	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Mississippi	35.929167	-89.900833
051070001	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Phillips	34.528889	-90.585556
051130002	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Polk	34.585278	-94.226111
051150003	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Pope	35.292222	-93.139167
051190007	R & P Model 2025 PM2.5 Sequential w/WINS	AR	Pulaski	34.756111	-92.275833
051191004	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Pulaski	34.729167	-92.243333
051191005	R & P Model 2025 PM2.5 Sequential w/WINS	AR	Pulaski	34.676268	-92.337164
051310008	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Sebastian	35.388333	-94.411944
051390006	R & P Model 2000 PM2.5 Sampler w/WINS	AR	Union	33.215	-92.668889
051450001	R & P Model 2000 PM2.5 Sampler w/WINS	AR	White	35.248611	-91.715278
060010007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Alameda	37.6875	-121.7842
060011001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Alameda	37.5358	-121.9619
060070002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Butte	39.7575	-121.84222
060090001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Calaveras	38.201944	-120.68056
060111002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Colusa	39.203056	-122.01667
060130002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Contra Costa	37.936	-122.0262
060190008	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Fresno	36.781389	-119.77222
060195001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Fresno	36.819167	-119.71639
060195025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Fresno	36.727083	-119.73206
060231002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Humboldt	40.801666	-124.16194
060250005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Imperial	32.676111	-115.48333
060250007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Imperial	32.97835	-115.53829
060251003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Imperial	32.791667	-115.56167
060271003	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Inyo	36.487778	-117.87056
060290010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kern	35.385556	-119.01472
060290011	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Kern	35.050556	-118.14639
060290011	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kern	35.050556	-118.14639
060290014	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Kern	35.356111	-119.04028
060290015	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kern	35.623889	-117.67722
060290016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kern	35.324722	-118.99917
060310004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Kings	36.101389	-119.56583
060333001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Lake	39.031389	-122.92222
060370002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.1365	-117.92391
060371002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.17605	-118.31712
060371103	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.06659	-118.22688
060371201	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.19925	-118.53276
060371301	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	33.92899	-118.21071
060371601	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.01407	-118.06056
060371602	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.01407	-118.06995
060372005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.1326	-118.1272
060374002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	33.82376	-118.18921
060374004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	33.79236	-118.17533
060379033	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Los Angeles	34.671389	-118.13056
060450006	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Mendocino	39.150556	-123.205

060472510	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Merced	37.309167	-120.48056
060510001	R & P Model 2025 PM2.5 Sequential w/WINS	CA	Mono	37.648056	-118.97333
060531003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Monterey	36.69683	-121.63617
060570005	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Nevada	39.234444	-121.05556
060571001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Nevada	39.338611	-120.17028
060590007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Orange	33.83062	-117.93845
060592022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Orange	33.63003	-117.67593
060610006	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Placer	38.745833	-121.26528
060631006	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Plumas	39.937222	-120.93778
060631009	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Plumas	39.808333	-120.47167
060651003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.94603	-117.40063
060652002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.70853	-116.21537
060655001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.85275	-116.54101
060658001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Riverside	33.99958	-117.41601
060670006	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Sacramento	38.614167	-121.36694
060670010	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Sacramento	38.558333	-121.49194
060674001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Sacramento	38.555833	-121.45722
060710025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.037222	-117.69
060710306	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.51	-117.33056
060712002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.10002	-117.49201
060718001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.264444	-116.86444
060719004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Bernardino	34.10688	-117.27411
060730001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.622778	-117.05611
060730003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.791389	-116.94167
060730006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.828333	-117.13333
060731002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	33.127778	-117.07417
060731007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.708889	-117.15278
060731010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Diego	32.701389	-117.15278
060750005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Francisco	37.766	-122.3991
060771002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	San Joaquin	37.950833	-121.2675
060792002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	San Luis Obispo	35.283889	-120.65417
060792006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Luis Obispo	35.256606	-120.66889
060798001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	San Luis Obispo	35.491389	-120.66806
060811001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	San Mateo	37.4829	-122.2034
060830011	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Santa Barbara	34.427776	-119.69028
060831008	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Santa Barbara	34.949167	-120.43667
060850005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Santa Clara	37.3485	-121.895
060852003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Santa Clara	37.3062	-121.8489
060870007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Santa Cruz	36.984	-121.9883
060890004	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Shasta	40.549722	-122.37917
060932001	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Siskiyou	41.728333	-122.63444
060950004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Solano	38.1027	-122.2382
060970003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Sonoma	38.4435	-122.71
060990005	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Stanislaus	37.641667	-120.99361
061010003	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Sutter	39.138889	-121.6175
061072002	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Tulare	36.332222	-119.29028
061072002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Tulare	36.332222	-119.29028
061110007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Ventura	34.21	-118.86944
061110009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Ventura	34.404611	-118.81
061112002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Ventura	34.2775	-118.68472
061113001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	CA	Ventura	34.255	-119.1425
061131003	R & P Model 2000 PM2.5 Sampler w/WINS	CA	Yolo	38.661944	-121.72778

080010006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Adams	39.825739	-104.93699
080050005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Arapahoe	39.604406	-105.01952
080070001	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Archuleta	37.268056	-107.02111
080130003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Boulder	40.165833	-105.10111
080130012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Boulder	40.021104	-105.26335
080290004	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Delta	38.739167	-108.07278
080310002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Denver	39.751185	-104.98762
080310023	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Denver	39.778739	-104.95627
080350004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Douglas	39.53448	-105.07035
080390001	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	CO	Elbert	39.231944	-104.63472
080390001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Elbert	39.231944	-104.63472
080410008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	El Paso	38.898056	-104.76139
080410011	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	El Paso	38.831389	-104.82778
080510005	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Gunnison	38.9	-106.9625
080510007	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Gunnison	38.900536	-106.96555
080690009	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Larimer	40.571236	-105.08012
080770017	R & P Model 2025 PM2.5 Sequential w/WINS	CO	Mesa	39.063625	-108.56102
080770017	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Mesa	39.063625	-108.56102
081010012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Pueblo	38.263611	-104.61222
081070003	R & P Model 2000 PM2.5 Sampler w/WINS	CO	Routt	40.485278	-106.83083
081130004	R & P Model 2000 PM2.5 Sampler w/WINS	CO	San Miguel	37.9375	-107.81167
081230006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Weld	40.414722	-104.70611
081230008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CO	Weld	40.209167	-104.82306
090010010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.170833	-73.194722
090011123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.399167	-73.443056
090013005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.1125	-73.407222
090019003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Fairfield	41.118333	-73.336667
090031003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Hartford	41.784722	-72.631667
090050005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	Litchfield	41.821389	-73.297222
090090018	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.293889	-72.901389
090090026	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.291111	-72.894167
090090027	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.301111	-72.902778
090091123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.310833	-72.916944
090092008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.331389	-72.919722
090092123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New Haven	41.550556	-73.043611
090113002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	CT	New London	41.524167	-72.076667
100010002	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	Kent	38.984722	-75.555556
100010003	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	Kent	39.155	-75.518056
100031003	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	New Castle	39.761111	-75.491944
100031007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DE	New Castle	39.551111	-75.730833
100031012	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	New Castle	39.691944	-75.761667
100032004	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	New Castle	39.739444	-75.558056
100051002	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	DE	Sussex	38.644444	-75.613056
110010041	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DC	District Of Columbia	38.897222	-76.952778
110010042	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DC	District Of Columbia	38.880833	-77.0325
110010043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	DC	District Of Columbia	38.918889	-77.0125
120010023	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Alachua	29.703333	-82.391389
120010024	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Alachua	29.658333	-82.408333
120051004	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Bay	30.144167	-85.614444
120090007	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Brevard	28.053889	-80.628611
120111002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Broward	26.082778	-80.237778
120112004	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Broward	26.217222	-80.127778

120113002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Broward	26.000833	-80.160556
120170005	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Citrus	28.980556	-82.7
120310098	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Duval	30.135556	-81.634167
120310099	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Duval	30.355833	-81.548056
120330004	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Escambia	30.525	-87.204167
120330025	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Escambia	30.437	-87.256
120330026	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Escambia	30.55	-87.376
120570030	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Hillsborough	27.931944	-82.509722
120573002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Hillsborough	27.96565	-82.2304
120710005	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Lee	26.602778	-81.878889
120730012	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Leon	30.439722	-84.348333
120814012	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Manatee	27.480556	-82.618889
120830003	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Marion	29.170278	-82.100833
120860033	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Miami-Dade	25.94167	-80.32639
120861016	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Miami-Dade	25.794167	-80.206111
120866001	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Miami-Dade	25.471389	-80.483333
120951004	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Orange	28.550833	-81.345556
120952002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Orange	28.599444	-81.363056
120990008	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Palm Beach	26.724444	-80.666667
120990009	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Palm Beach	26.731	-80.234
120992005	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Palm Beach	26.457778	-80.093057
121030018	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Pinellas	27.785556	-82.74
121031009	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Pinellas	27.985945	-82.782231
121056006	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Polk	28.029167	-81.972222
121111002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	St Lucie	27.448889	-80.40833
121150013	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Sarasota	27.290556	-82.5075
121171002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Seminole	28.745556	-81.31
121275002	R & P Model 2025 PM2.5 Sequential w/WINS	FL	Volusia	29.206667	-81.053056
130210007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Bibb	32.777231	-83.641242
130210012	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Bibb	32.805244	-83.543628
130510017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Chatham	32.092778	-81.144167
130510091	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Chatham	32.11058	-81.162024
130590001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Clarke	33.945833	-83.372222
130590002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Clarke	33.917925	-83.344512
130630091	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Clayton	33.609722	-84.391111
130670003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Cobb	34.015346	-84.607484
130670004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Cobb	33.899182	-84.661589
130890002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	De Kalb	33.688007	-84.290325
130892001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	De Kalb	33.901251	-84.279989
130950007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Dougherty	31.576917	-84.100194
131150005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Floyd	34.263198	-85.304826
131210032	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Fulton	33.819424	-84.389791
131210039	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Fulton	33.802189	-84.435658
131270006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Glynn	31.16953	-81.496046
131350002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Gwinnett	33.963074	-84.069193
131390003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Hall	34.300342	-83.8139
131530001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Houston	32.6056	-83.597907
131850003	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Lowndes	30.848056	-83.294444
131850003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Lowndes	30.848056	-83.294444
132150001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Muscogee	32.483543	-84.980977
132150008	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Muscogee	32.521099	-84.944695
132150008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Muscogee	32.521099	-84.944695

132150011	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Muscogee	32.430944	-84.931818
132230003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Paulding	33.92855	-85.04548
132450005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Richmond	33.469018	-81.991581
132450091	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Richmond	33.433883	-82.022414
132950002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Walker	34.966557	-85.297229
133030001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	GA	Washington	32.974722	-82.808889
133030001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Washington	32.974722	-82.808889
133190001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	GA	Wilkinson	32.881667	-83.333889
150030010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Honolulu	21.329167	-158.09333
150031001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Honolulu	21.310278	-157.85806
150031004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Honolulu	21.305	-157.87333
150032004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Honolulu	21.396667	-157.97167
150090006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	HI	Maui	20.780997	-156.44637
160010011	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Ada	43.636111	-116.27028
160050015	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Bannock	42.876725	-112.46035
160050018	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Bannock	42.796463	-112.25812
160090010	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Benewah	47.316667	-116.57028
160090011	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ID	Benewah	47.338702	-116.88461
160190013	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Bonneville	43.518267	-112.02071
160210002	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Boundary	48.70555	-116.36897
160270004	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Canyon	43.562401	-116.56323
160270008	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Canyon	43.787147	-116.95958
160410001	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Franklin	42.013333	-111.80917
160410002	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Franklin	42.082222	-111.86417
160450001	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Gem	43.856442	-116.51546
160490003	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Idaho	46.2094	-116.0275
160590004	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Lemhi	45.170556	-113.89222
160770011	R & P Model 2000 PM2.5 Sampler w/WINS	ID	Power	42.9125	-112.53556
160790017	R & P Model 2025 PM2.5 Sequential w/WINS	ID	Shoshone	47.536389	-116.23667
170010006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Adams	39.935025	-91.404232
170190004	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Champaign	40.125657	-88.229532
170191001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Champaign	40.054198	-88.372552
170310022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.689195	-87.539318
170310050	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.709561	-87.568576
170310052	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.967429	-87.749819
170310057	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.914733	-87.722725
170310076	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.751369	-87.713745
170311016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.801111	-87.831944
170312001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.663997	-87.696468
170313103	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.965278	-87.876389
170313301	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.782778	-87.805278
170314007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	42.060278	-87.863333
170314201	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	42.14	-87.799167
170316005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Cook	41.864257	-87.74888
170434002	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Du Page	41.771195	-88.152502
170650002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Hamilton	38.083942	-88.624942
170831001	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Jersey	39.110312	-90.324168
170890003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Kane	42.050278	-88.280278
170890007	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Kane	41.786586	-88.329376
170971007	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Lake	42.467535	-87.810024
170990007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	La Salle	41.293125	-89.049242
171110001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Mc Henry	42.221421	-88.2421

171132003	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Mc Lean	40.520584	-88.996898
171150013	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Macon	39.866944	-88.925556
171190023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Madison	38.69948	-90.143433
171191007	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Madison	38.704444	-90.139444
171192009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Madison	38.902778	-90.143056
171193007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Madison	38.860645	-90.105754
171430037	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	Peoria	40.698886	-89.584741
171570001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Randolph	38.178	-89.788455
171613002	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Rock Island	41.514722	-90.517222
171630010	R & P Model 2000 PM2.5 Sampler w/WINS	IL	St Clair	38.612222	-90.160278
171634001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	IL	St Clair	38.529444	-89.993056
171670012	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Sangamon	39.833792	-89.644167
171971002	R & P Model 2000 PM2.5 Sampler w/WINS	IL	Will	41.526667	-88.116389
171971011	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Will	41.221592	-88.190948
172010013	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	IL	Winnebago	42.265109	-89.092776
180030004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Allen	41.094722	-85.101944
180030014	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Allen	41.050556	-85.149722
180190006	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Clark	38.277675	-85.740153
180350006	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Delaware	40.201111	-85.388056
180372001	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Dubois	38.391389	-86.929167
180390003	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Elkhart	41.667778	-85.969444
180431004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Floyd	38.308056	-85.834167
180650003	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Henry	40.011667	-85.523611
180670003	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Howard	40.485556	-86.132778
180830004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Knox	38.740833	-87.484722
180890006	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.636111	-87.440833
180890022	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.606667	-87.304722
180890026	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.573056	-87.405833
180890027	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.546667	-87.426389
180890031	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.598505	-87.342991
180891003	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.588889	-87.407778
180892004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.585278	-87.474444
180892010	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Lake	41.678333	-87.508333
180910011	R & P Model 2025 PM2.5 Sequential w/WINS	IN	La Porte	41.706944	-86.891111
180910012	R & P Model 2025 PM2.5 Sequential w/WINS	IN	La Porte	41.602222	-86.730278
180950009	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Madison	40.111944	-85.68
180970042	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.646254	-86.248784
180970043	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.744957	-86.166496
180970066	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.760437	-86.108848
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.811097	-86.114469
180970079	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.893611	-86.040556
180970081	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.788903	-86.214628
180970083	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Marion	39.774944	-86.122053
181270020	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Porter	41.631389	-87.086944
181270024	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Porter	41.6175	-87.199167
181410014	R & P Model 2025 PM2.5 Sequential w/WINS	IN	St Joseph	41.663333	-86.207778
181411008	R & P Model 2025 PM2.5 Sequential w/WINS	IN	St Joseph	41.693611	-86.236667
181412004	R & P Model 2025 PM2.5 Sequential w/WINS	IN	St Joseph	41.694444	-86.2875
181470009	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Spencer	38.1675	-86.983333
181570008	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Tippecanoe	40.431639	-86.8525
181630006	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vanderburgh	37.971667	-87.567222
181630012	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vanderburgh	38.021667	-87.569444

181630016	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vanderburgh	37.974444	-87.532222
181670018	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vigo	39.486111	-87.401389
181670023	R & P Model 2025 PM2.5 Sequential w/WINS	IN	Vigo	39.456111	-87.370556
190130008	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Black Hawk	42.493056	-92.343889
190450021	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Clinton	41.874972	-90.177444
191032001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Johnson	41.657361	-91.503472
191130037	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Linn	42.008333	-91.678611
191370002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Montgomery	40.971211	-95.043868
191390015	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Muscatine	41.400833	-91.067778
191471002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Palo Alto	43.123333	-94.693333
191530030	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Polk	41.603132	-93.643234
191532510	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Polk	41.603479	-93.747821
191532520	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Polk	41.664722	-93.614167
191550009	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Pottawattamie	41.264167	-95.895833
191550009	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Pottawattamie	41.264167	-95.895833
191630015	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Scott	41.53	-90.5875
191630018	R & P Model 2025 PM2.5 Sequential w/WINS	IA	Scott	41.55	-90.6
191630019	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Scott	41.517778	-90.618611
191770006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Van Buren	40.695078	-92.006318
191930017	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Woodbury	42.517222	-96.386389
191970004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	IA	Wright	42.695387	-93.655982
200910007	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Johnson	38.974444	-94.686944
200910009	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Johnson	38.863056	-94.768889
200910010	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Johnson	38.83859	-94.74643
201070002	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Linn	38.135833	-94.731944
201730008	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Sedgwick	37.659722	-97.297222
201730009	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Sedgwick	37.651111	-97.362222
201730010	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Sedgwick	37.701111	-97.313889
201770010	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Shawnee	39.04	-95.691667
201770011	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Shawnee	39.021389	-95.748333
201910002	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Sumner	37.476944	-97.366389
202090021	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Wyandotte	39.1175	-94.635556
202090022	R & P Model 2025 PM2.5 Sequential w/WINS	KS	Wyandotte	39.045833	-94.694444
210130002	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Bell	36.608056	-83.736944
210190017	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Boyd	38.459167	-82.640556
210290006	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Bullitt	37.985556	-85.713056
210370003	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Campbell	39.065556	-84.451944
210430500	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Carter	38.238333	-82.988333
210470006	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Christian	36.911667	-87.323611
210590005	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Daviess	37.780833	-87.075556
210610501	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Edmonson	37.131389	-86.148056
210670012	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Fayette	38.065	-84.5
210670014	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Fayette	38.038889	-84.5075
210730006	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Franklin	38.219361	-84.8385
210930006	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Hardin	37.706389	-85.851667
211010014	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Henderson	37.871389	-87.463333
211110043	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Jefferson	38.233222	-85.825278
211110044	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Jefferson	38.190833	-85.780556
211110048	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Jefferson	38.240556	-85.731667
211110051	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Jefferson	38.060833	-85.896111
211170007	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Kenton	39.0725	-84.525
211250004	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Laurel	37.087222	-84.063333

211451004	R & P Model 2025 PM2.5 Sequential w/WINS	KY	McCracken	37.065556	-88.637778
211510003	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Madison	37.738056	-84.285556
211830032	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Ohio	37.319725	-86.956097
211930003	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Perry	37.283056	-83.220278
211950002	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Pike	37.482778	-82.535278
212270007	R & P Model 2025 PM2.5 Sequential w/WINS	KY	Warren	36.993333	-86.418333
220171002	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Caddo	32.478333	-93.765833
220190009	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Calcasieu	30.227778	-93.578333
220190010	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Calcasieu	30.177143	-93.214514
220290003	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Concordia	31.574236	-91.455236
220330009	R & P Model 2025 PM2.5 Sequential w/WINS	LA	East Baton Rouge	30.461111	-91.176944
220331001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	East Baton Rouge	30.587222	-91.206944
220470005	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Iberville	30.217778	-91.060556
220470009	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Iberville	30.220556	-91.316111
220511001	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Jefferson	30.043333	-90.275
220511001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Jefferson	30.043333	-90.275
220512001	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Jefferson	29.883056	-90.083333
220512001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Jefferson	29.883056	-90.083333
220518105	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Jefferson	30.020892	-90.123099
220518106	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Jefferson	29.999264	-90.211619
220518107	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Jefferson	29.9198	-90.231783
220550005	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Lafayette	30.2175	-92.051389
220550006	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Lafayette	30.274833	-92.0172
220710010	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	29.9555	-90.12166
220710010	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Orleans	29.9555	-90.12166
220710012	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	29.994444	-90.102778
220710012	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Orleans	29.994444	-90.102778
220718105	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	30.016905	-89.927185
220718106	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	30.032329	-90.045465
220718109	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	30.16635	-89.737333
220718110	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	30.0655	-89.804767
220718401	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Orleans	29.96249	-90.05689
220730004	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Ouachita	32.509713	-92.046093
220758400	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	Plaquemines	29.88546	-89.94952
220790002	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Rapides	31.177638	-92.410611
220870004	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	St Bernard	29.941667	-89.933333
220870004	R & P Model 2025 PM2.5 Sequential w/WINS	LA	St Bernard	29.941667	-89.933333
220878103	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	St Bernard	29.971443	-89.998605
220890005	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	St Charles	29.933056	-90.359444
221038400	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	St Tammany	30.31445	-89.81415
221038401	BGI Model PQ200 PM2.5 Sampler w/WINS	LA	St Tammany	30.26588	-89.76997
221050001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Tangipahoa	30.503056	-90.376944
221090001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	Terrebonne	29.678883	-90.779967
221210001	R & P Model 2025 PM2.5 Sequential w/WINS	LA	West Baton Rouge	30.501944	-91.209722
230010011	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Androscoggin	44.089444	-70.215
230030013	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Aroostook	47.355	-68.322778
230031011	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Aroostook	46.682222	-68.016111
230050015	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Cumberland	43.678056	-70.256667
230050027	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Cumberland	43.661944	-70.265833
230090103	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Hancock	44.37705	-68.2609
230110016	R & P Model 2000 PM2.5 Sampler w/WINS	ME	Kennebec	44.312222	-69.786389
230112002	R & P Model 2000 PM2.5 Sampler w/WINS	ME	Kennebec	44.549167	-69.630833

230112006	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Kennebec	44.56817	-69.62083
230172011	R & P Model 2000 PM2.5 Sampler w/WINS	ME	Oxford	44.550833	-70.548333
230190002	R & P Model 2025 PM2.5 Sequential w/WINS	ME	Penobscot	44.798849	-68.769745
240030014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Anne Arundel	38.9025	-76.653056
240031003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Anne Arundel	39.169533	-76.627933
240032002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Anne Arundel	39.159722	-76.511667
240051007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore	39.460833	-76.631111
240053001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore	39.310833	-76.474444
240150003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Cecil	39.701111	-75.86
240251001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Harford	39.41	-76.296667
240313001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Montgomery	39.114444	-77.106944
240330030	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Prince Georges	39.055277	-76.878333
240338003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Prince Georges	38.81194	-76.74417
240430009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Washington	39.565556	-77.721944
245100006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.340556	-76.582222
245100007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.344444	-76.685278
245100008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.28768	-76.547616
245100035	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.232778	-76.579722
245100040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.298056	-76.604722
245100049	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MD	Baltimore City	39.261667	-76.6375
250035001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Berkshire	42.451667	-73.255
250051004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Bristol	41.6857	-71.1698
250051004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Bristol	41.6857	-71.1698
250092006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Essex	42.474444	-70.9725
250092006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Essex	42.474444	-70.9725
250095005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Essex	42.762778	-71.105833
250095005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Essex	42.762778	-71.105833
250096001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Essex	42.698611	-71.165833
250096001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Essex	42.698611	-71.165833
250130008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Hampden	42.19446	-72.555711
250130008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Hampden	42.19446	-72.555711
250130016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Hampden	42.108889	-72.591389
250132009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Hampden	42.106	-72.597585
250132009	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Hampden	42.106	-72.597585
250170009	BGI Model PQ200 PM2.5 Sampler w/WINS	MA	Middlesex	42.62668	-71.362068
250230004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Plymouth	42.079722	-71.015278
250230004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Plymouth	42.079722	-71.015278
250250002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Suffolk	42.348933	-71.097733
250250002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Suffolk	42.348933	-71.097733
250250027	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Suffolk	42.372928	-71.063311
250250027	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Suffolk	42.372928	-71.063311
250250042	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Suffolk	42.329444	-71.082778
250250042	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Suffolk	42.329444	-71.082778
250250043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Suffolk	42.362778	-71.054167
250270016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Worcester	42.259167	-71.799167
250270016	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Worcester	42.259167	-71.799167
250270023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	MA	Worcester	42.265802	-71.794835
250270023	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	MA	Worcester	42.265802	-71.794835
260050003	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Allegan	42.767778	-86.148611
260170014	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Bay	43.571389	-83.890833
260210014	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Berrien	42.197778	-86.309722
260330901	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Chippewa	46.493611	-84.364167

260330902	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Chippewa	46.481667	-84.331667
260330903	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Chippewa	46.454	-84.6067
260430002	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Dickinson	46.139444	-87.907222
260490021	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Genesee	43.04722	-83.670278
260650012	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Ingham	42.738611	-84.534722
260710001	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Iron	46.159883	-88.119627
260770008	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Kalamazoo	42.278056	-85.541944
260810020	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Kent	42.984167	-85.671389
260990009	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Macomb	42.731389	-82.793611
261130001	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Missaukee	44.310556	-84.891944
261150005	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Monroe	41.763889	-83.471944
261210040	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Muskegon	43.233056	-86.238611
261250001	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Oakland	42.463056	-83.183333
261390005	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Ottawa	42.894444	-85.852778
261450018	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Saginaw	43.508333	-83.968056
261470005	R & P Model 2025 PM2.5 Sequential w/WINS	MI	St Clair	42.953333	-82.456389
261610005	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Washtenaw	42.293889	-83.711111
261610008	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Washtenaw	42.240556	-83.599722
261630001	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.228611	-83.208333
261630015	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.302778	-83.106667
261630016	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.3578	-83.09617
261630019	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.430833	-83.000278
261630025	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.423055	-83.426389
261630033	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.306666	-83.148889
261630036	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.18728	-83.15404
261630038	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.335	-83.1097
261630039	R & P Model 2025 PM2.5 Sequential w/WINS	MI	Wayne	42.323333	-83.068611
270210001	R & P Model 2000 PM2.5 Sampler w/WINS	MN	Cass	47.159942	-94.150987
270370470	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Dakota	44.740751	-93.237293
270530050	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	45.001229	-93.267117
270530961	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.87753	-93.25882
270530963	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.955396	-93.25827
270530965	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	45.004478	-93.240046
270530968	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.893005	-93.233227
270531007	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	45.041815	-93.298729
270532006	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Hennepin	44.950047	-93.342874
270953051	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Mille Lacs	46.207026	-93.759411
271095008	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Olmsted	43.996908	-92.450366
271230866	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Ramsey	44.899379	-93.017155
271230868	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Ramsey	44.952442	-93.098475
271230871	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Ramsey	44.961451	-93.035894
271377001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	St Louis	47.523355	-92.536305
271377550	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	St Louis	46.820199	-92.08941
271377551	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	St Louis	46.766667	-92.133056
271390505	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Scott	44.791437	-93.512534
271453052	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MN	Stearns	45.549839	-94.13345
280010004	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Adams	31.560389	-91.39025
280110001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Bolivar	33.746056	-90.723028
280330002	R & P Model 2025 PM2.5 Sequential w/WINS	MS	De Soto	34.82166	-89.98783
280350004	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Forrest	31.323639	-89.287167
280450001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Hancock	30.230167	-89.567444
280450002	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Hancock	30.38	-89.448333

280450003	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Hancock	30.300833	-89.395916
280458104	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Hancock	30.26892	-89.44933
280458105	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Hancock	30.40966	-89.44114
280458201	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Hancock	30.393193	-89.580378
280470008	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Harrison	30.390139	-89.049722
280470008	R & P Model 2000 PM2.5 Sampler w/WINS	MS	Harrison	30.390139	-89.049722
280470008	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Harrison	30.390139	-89.049722
280478101	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Harrison	30.373678	-89.15513
280478102	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Harrison	30.449005	-89.052683
280478103	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Harrison	30.470916	-88.9827
280490010	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Hinds	32.385583	-90.140917
280490018	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Hinds	32.296806	-90.188306
280590006	BGI Model PQ200 PM2.5 Sampler w/WINS	MS	Jackson	30.378194	-88.533944
280590006	R & P Model 2000 PM2.5 Sampler w/WINS	MS	Jackson	30.378194	-88.533944
280590006	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Jackson	30.378194	-88.533944
280670002	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Jones	31.688444	-89.135056
280750003	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Lauderdale	32.364389	-88.731444
280810005	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Lee	34.264917	-88.766222
280870001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Lowndes	33.490972	-88.418528
281090001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Pearl River	30.5295	-89.691056
281210001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Rankin	32.275528	-90.132528
281230001	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Scott	32.32	-89.666667
281490004	R & P Model 2025 PM2.5 Sequential w/WINS	MS	Warren	32.322833	-90.887111
290190004	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Boone	38.956389	-92.321667
290210005	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Buchanan	39.741667	-94.858333
290370003	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Cass	38.770278	-94.58
290390001	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Cedar	37.695833	-94.0375
290470005	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Clay	39.303056	-94.376389
290770032	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Greene	37.205278	-93.283333
290950010	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Jackson	39.036	-94.5741
290950034	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Jackson	39.104722	-94.570556
290990012	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Jefferson	38.437778	-90.361389
291370001	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Monroe	39.473056	-91.789167
291831002	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Charles	38.8725	-90.226389
291860006	R & P Model 2025 PM2.5 Sequential w/WINS	MO	Ste Genevieve	37.967222	-90.051111
291890004	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis	38.5325	-90.382778
291892003	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis	38.649722	-90.350556
295100007	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis City	38.5425	-90.263611
295100085	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis City	38.6563	-90.1981
295100086	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis City	38.672222	-90.238889
295100087	R & P Model 2025 PM2.5 Sequential w/WINS	MO	St Louis City	38.642444	-90.185583
300131026	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Cascade	47.502222	-111.27889
300290009	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Flathead	48.399722	-114.33361
300290047	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Flathead	48.2025	-114.30556
300310006	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Gallatin	45.726314	-111.0673
300310008	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Gallatin	45.772778	-111.1775
300310013	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Gallatin	44.657778	-111.09083
300470013	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MT	Lake	47.526944	-114.10056
300470028	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MT	Lake	47.692222	-114.16222
300490018	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Lewis And Clark	46.603889	-112.03528
300490019	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Lewis And Clark	46.954475	-112.69674
300530018	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Lincoln	48.384167	-115.54806

300630021	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Missoula	47.1771	-113.4827
300630031	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Missoula	46.874912	-113.99525
300810001	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Ravalli	46.244444	-114.15722
300810007	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Ravalli	46.245633	-114.15886
300870307	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	MT	Rosebud	45.623333	-106.66806
300890007	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Sanders	47.596389	-115.32361
300930005	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Silver Bow	46.0025	-112.5
301111065	BGI Models PQ200-VSCC or PQ200A-VSCC	MT	Yellowstone	45.801944	-108.42611
310250002	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Cass	40.865556	-96.146667
310550019	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Douglas	41.247222	-95.975556
310550052	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Douglas	41.333056	-96.099722
310790004	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Hall	40.942099	-98.364967
311090022	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Lancaster	40.81259	-96.68302
311111002	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Lincoln	41.136111	-100.76444
311530007	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Sarpy	41.133613	-95.955835
311570003	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Scotts Bluff	41.865	-103.66444
311770002	R & P Model 2025 PM2.5 Sequential w/WINS	NE	Washington	41.551136	-96.146753
320030022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.390775	-114.90681
320030298	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.052222	-115.05694
320030561	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.163994	-115.11393
320031019	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	35.785634	-115.35706
320032002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Clark	36.191111	-115.12222
320310016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NV	Washoe	39.525083	-119.80772
330012004	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Belknap	43.565278	-71.495833
330050007	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Cheshire	42.930556	-72.277778
330070014	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Coos	44.471111	-71.166667
330090010	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Grafton	43.62957	-72.226083
330110020	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Hillsborough	43.000556	-71.468056
330111015	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Hillsborough	42.76186	-71.44455
330111015	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	NH	Hillsborough	42.76186	-71.44455
330115001	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Hillsborough	42.861901	-71.878613
330131006	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Merrimack	43.132444	-71.45827
330150014	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Rockingham	43.075278	-70.748056
330190003	BGI Model PQ200 PM2.5 Sampler w/WINS	NH	Sullivan	43.364444	-72.338333
340011006	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Atlantic	39.362641	-74.429345
340030003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Bergen	40.851667	-73.973333
340070003	R & P Model 2000 PM2.5 Sampler w/WINS	NJ	Camden	39.92304	-75.09762
340070003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Camden	39.92304	-75.09762
340071007	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Camden	39.98888	-75.049167
340130015	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Essex	40.731944	-74.205278
340155001	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Gloucester	39.825833	-75.289444
340171003	R & P Model 2000 PM2.5 Sampler w/WINS	NJ	Hudson	40.72545	-74.05229
340171003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Hudson	40.72545	-74.05229
340172002	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Hudson	40.773056	-74.031944
340210008	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Mercer	40.222222	-74.763611
340218001	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Mercer	40.3124	-74.8726
340230006	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Middlesex	40.47279	-74.42251
340270004	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Morris	40.803056	-74.483333
340273001	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Morris	40.78763	-74.6763
340292002	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Ocean	39.995	-74.165833
340310005	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Passaic	40.918611	-74.167778
340390004	R & P Model 2000 PM2.5 Sampler w/WINS	NJ	Union	40.64144	-74.20836

340390004	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Union	40.64144	-74.20836
340390006	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Union	40.673056	-74.213611
340392003	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Union	40.60607	-74.27498
340410006	R & P Model 2025 PM2.5 Sequential w/WINS	NJ	Warren	40.687222	-75.181389
350010023	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Bernalillo	35.13426	-106.58551
350010024	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Bernalillo	35.0631	-106.57879
350050005	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Chaves	33.396944	-104.52361
350130017	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Dona Ana	31.795833	-106.5575
350130025	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Dona Ana	32.321944	-106.76778
350171002	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Grant	32.784444	-108.27167
350250007	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Lea	32.724722	-103.12861
350250008	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Lea	32.726656	-103.12292
350431003	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Sandoval	35.238056	-106.64944
350439004	R & P Model 2000 PM2.5 Sampler w/WINS	NM	Sandoval	35.615278	-106.72444
350439011	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Sandoval	35.5064	-106.7222
350450006	R & P Model 2025 PM2.5 Sequential w/WINS	NM	San Juan	36.7275	-108.22083
350490020	R & P Model 2025 PM2.5 Sequential w/WINS	NM	Santa Fe	35.671111	-105.95361
360010005	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Albany	42.6424	-73.75453
360050080	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Bronx	40.83608	-73.92021
360050083	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Bronx	40.86586	-73.88075
360050110	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Bronx	40.81616	-73.90207
360130011	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Chautauqua	42.29073	-79.58658
360290005	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Erie	42.87684	-78.80988
360291007	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Erie	42.82728	-78.84989
360310003	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Essex	44.39309	-73.85892
360470122	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Kings	40.7198	-73.94788
360551007	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Monroe	43.146198	-77.54813
360590008	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Nassau	40.63102	-73.73479
360610056	R & P Model 2025 PM2.5 Sequential w/WINS	NY	New York	40.75917	-73.96651
360610062	R & P Model 2025 PM2.5 Sequential w/WINS	NY	New York	40.72052	-74.00409
360610079	R & P Model 2025 PM2.5 Sequential w/WINS	NY	New York	40.79937	-73.93334
360610128	R & P Model 2025 PM2.5 Sequential w/WINS	NY	New York	40.73003	-73.98446
360632008	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Niagara	43.08216	-79.00099
360671015	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Onondaga	43.05238	-76.0592
360710002	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Orange	41.49947	-74.00973
360810124	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Queens	40.7362	-73.82317
360850055	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Richmond	40.63302	-74.13713
360850067	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Richmond	40.59733	-74.12619
360893001	R & P Model 2025 PM2.5 Sequential w/WINS	NY	St Lawrence	44.67778	-74.94999
361010003	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Steuben	42.09071	-77.21025
361030001	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Suffolk	40.745833	-73.420278
361191002	R & P Model 2025 PM2.5 Sequential w/WINS	NY	Westchester	40.93006	-73.76924
370010002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Alamance	36.089004	-79.407821
370210034	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Buncombe	35.609722	-82.350833
370330001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Caswell	36.307033	-79.467417
370350004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Catawba	35.728889	-81.365556
370350006	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Catawba	35.7278	-81.3425
370370004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Chatham	35.757222	-79.159722
370510009	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Cumberland	35.041416	-78.953112
370570002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Davidson	35.814444	-80.2625
370570003	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Davidson	35.77881	-80.30236
370570004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Davidson	35.84119	-80.24452

370610002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Duplin	34.954823	-77.960781
370630001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Durham	35.991944	-78.896389
370650004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Edgecombe	35.93355	-77.75007
370670022	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Forsyth	36.110556	-80.226667
370670024	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Forsyth	36.171389	-80.281944
370670030	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Forsyth	36.026	-80.342
370710016	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Gaston	35.253056	-81.153333
370810013	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Guilford	36.109167	-79.801111
370870010	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Haywood	35.489167	-82.9875
370990006	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Jackson	35.466667	-83.278056
371070004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Lenoir	35.231459	-77.568792
371110004	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mc Dowell	35.687404	-81.993789
371170001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Martin	35.81069	-76.89782
371190010	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mecklenburg	35.225278	-80.882778
371190041	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mecklenburg	35.240278	-80.785556
371190042	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mecklenburg	35.151389	-80.866944
371210001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Mitchell	35.915278	-82.073333
371230001	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Montgomery	35.26	-79.84
371290002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	New Hanover	34.364167	-77.838611
371330005	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Onslow	34.772828	-77.42796
371350007	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Orange	35.901944	-79.056667
371470005	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Pitt	35.594167	-77.386111
371550005	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Robeson	34.6425	-78.990278
371590021	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Rowan	35.551868	-80.395039
371730002	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Swain	35.435509	-83.443697
371830014	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Wake	35.856111	-78.574167
371890003	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Watauga	36.221944	-81.663056
371910005	R & P Model 2025 PM2.5 Sequential w/WINS	NC	Wayne	35.369214	-77.993893
380070002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	Billings	46.8943	-103.37853
380130002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	Burke	48.9904	-102.7815
380130003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	Burke	48.876553	-102.56842
380150003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	ND	Burleigh	46.825425	-100.76821
380171004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	ND	Cass	46.933754	-96.85535
380530002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	McKenzie	47.5812	-103.2995
380570004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	ND	Mercer	47.298611	-101.76694
390090003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Athens	39.4425	-81.908611
390170003	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	OH	Butler	39.493611	-84.353889
390170016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Butler	39.338333	-84.566389
390170017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Butler	39.525	-84.369444
390171004	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	OH	Butler	39.53	-84.3925
390230005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Clark	39.928889	-83.809722
390250022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Clermont	39.082319	-84.144193
390350027	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.4775	-81.703056
390350034	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.555	-81.575
390350038	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.476944	-81.681944
390350045	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.471667	-81.657222
390350060	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.493955	-81.678542
390350065	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.446389	-81.661944
390351002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Cuyahoga	41.395556	-81.818056
390490024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Franklin	39.998333	-82.993056
390490025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Franklin	39.928056	-82.981111
390490081	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Franklin	40.087778	-82.959722

390570005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Greene	39.808056	-83.886944
390610006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.278499	-84.365974
390610014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.194167	-84.478889
390610040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.128611	-84.504167
390610041	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.185967	-84.513719
390610042	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.105	-84.551111
390610043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.290278	-84.414444
390617001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.16	-84.457778
390618001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Hamilton	39.180278	-84.491944
390810017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Jefferson	40.366104	-80.615002
390811001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Jefferson	40.321944	-80.606389
390851001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lake	41.755	-81.273056
390870010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lawrence	38.519722	-82.665556
390930016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lorain	41.439444	-82.161667
390933002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lorain	41.463056	-82.114444
390950024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lucas	41.644167	-83.546667
390950025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lucas	41.661944	-83.479444
390950026	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Lucas	41.620556	-83.641389
390990005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Mahoning	41.111111	-80.645278
390990014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Mahoning	41.095868	-80.658426
391030003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Medina	41.102778	-81.911667
391130031	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Montgomery	39.759444	-84.144444
391130032	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Montgomery	39.760278	-84.187778
391330002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Portage	41.164167	-81.235
391351001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Preble	39.835556	-84.720833
391450013	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Scioto	38.754167	-82.9175
391510017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Stark	40.786667	-81.394444
391510020	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Stark	40.800556	-81.373333
391530017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Summit	41.063333	-81.468611
391530023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Summit	41.088056	-81.541667
391550007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	OH	Trumbull	41.214167	-80.7875
400159008	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Caddo	35.111944	-98.252778
400190295	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Carter	34.166667	-97.126389
400219002	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Cherokee	35.855	-94.986111
400470554	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Garfield	36.420278	-97.886944
400710602	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Kay	36.705328	-97.087656
400719010	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Kay	36.956731	-97.034369
400819005	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Lincoln	35.6725	-96.657222
400970186	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Mayes	36.304624	-95.310616
400979014	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Mayes	36.2284	-95.25
401010169	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Muskogee	35.755273	-95.377669
401090035	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Oklahoma	35.47292	-97.52709
401091037	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Oklahoma	35.614131	-97.475083
401159004	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Ottawa	36.922222	-94.838889
401210415	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Pittsburg	34.90227	-95.784375
401359015	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Sequoyah	35.58175	-94.829
401430110	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Tulsa	36.14004	-95.925382
401431127	R & P Model 2025 PM2.5 Sequential w/WINS	OK	Tulsa	36.204902	-95.976537
410090004	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Columbia	45.768056	-122.77194
410190002	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Douglas	43.22769	-123.3644
410290133	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Jackson	42.314078	-122.87924
410291001	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Jackson	42.536111	-122.875

410294001	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Jackson	42.426389	-122.85083
410330011	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Josephine	42.289722	-123.2325
410350004	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Klamath	42.188889	-121.7225
410390060	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Lane	44.026312	-123.08374
410391007	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Lane	43.833898	-123.03498
410391009	R & P Model 2000 PM2.5 Sampler w/WINS	OR	Lane	44.046696	-123.0177
410392013	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Lane	43.744352	-122.48052
410430009	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Linn	44.615648	-123.0916
410510080	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Multnomah	45.496667	-122.60222
410510246	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Multnomah	45.561301	-122.67878
410610119	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Union	45.338972	-117.9048
410650007	R & P Model 2000 PM2.5 Sampler w/WINS	OR	Wasco	45.602399	-121.20335
410670004	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Washington	45.52853	-122.97244
410670111	R & P Model 2025 PM2.5 Sequential w/WINS	OR	Washington	45.4702	-122.81585
420010001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Adams	39.92	-77.31
420030008	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.465556	-79.961111
420030021	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.413611	-79.941389
420030064	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.323611	-79.868333
420030067	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.381944	-80.185556
420030093	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.607222	-80.020833
420030095	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.486944	-80.188056
420030116	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.473611	-80.077222
420030133	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.260129	-79.886498
420031008	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.618611	-79.727222
420031301	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.4025	-79.860278
420033007	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.294444	-79.886667
420039002	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Allegheny	40.546944	-79.783889
420070014	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Beaver	40.747778	-80.316667
420110009	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Berks	40.320278	-75.926667
420170012	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Bucks	40.107222	-74.882222
420210011	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Cambria	40.309722	-78.915
420270100	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Centre	40.811389	-77.877028
420290100	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Chester	39.834444	-75.768611
420410101	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Cumberland	40.246528	-77.18675
420430401	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Dauphin	40.245	-76.844722
420450002	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Delaware	39.835556	-75.3725
420490003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Erie	42.14175	-80.038611
420692006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Lackawanna	41.442778	-75.623056
420710007	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Lancaster	40.046667	-76.283333
420770004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Lehigh	40.611944	-75.4325
420791101	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Luzerne	41.265556	-75.846389
420850100	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Mercer	41.215	-80.485
420910013	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Montgomery	40.112222	-75.309167
420950025	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Northampton	40.628056	-75.341111
420990301	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Perry	40.456944	-77.165556
421010003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	39.944167	-75.166111
421010004	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PA	Philadelphia	40.008889	-75.097778
421010004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	40.008889	-75.097778
421010020	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	40.002222	-75.220278
421010024	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PA	Philadelphia	40.076389	-75.011944
421010024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	40.076389	-75.011944
421010047	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	39.944722	-75.166111

421010136	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PA	Philadelphia	39.9275	-75.222778
421010136	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PA	Philadelphia	39.9275	-75.222778
421250005	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Washington	40.146667	-79.902222
421250200	R & P Model 2025 PM2.5 Sequential w/WINS	PA	Washington	40.170556	-80.261389
421255001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Washington	40.445278	-80.420833
421290008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PA	Westmoreland	40.304694	-79.505667
421330008	R & P Model 2025 PM2.5 Sequential w/WINS	PA	York	39.965278	-76.699444
440030002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Kent	41.6156	-71.7199
440070022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Providence	41.807949	-71.415
440070026	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Providence	41.874655	-71.379944
440070028	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Providence	41.80933	-71.40743
440071010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	RI	Providence	41.84092	-71.36094
450030003	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Aiken	33.342226	-81.788731
450130007	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Beaufort	32.436539	-80.677854
450190048	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Charleston	32.980254	-80.06501
450190049	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Charleston	32.790984	-79.958694
450250001	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Chesterfield	34.615367	-80.198787
450370001	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Edgefield	33.741693	-81.853633
450410002	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Florence	34.167636	-79.850404
450430009	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Georgetown	33.373994	-79.285697
450450008	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.838814	-82.402914
450450009	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.901046	-82.31307
450450011	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.884511	-82.359807
450450012	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.817197	-82.418487
450450013	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.854799	-82.380631
450450014	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenville	34.843991	-82.401159
450470003	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Greenwood	34.214556	-82.173146
450510002	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Horry	33.702771	-78.877478
450630008	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Lexington	34.052805	-81.15495
450730001	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Oconee	34.805261	-83.2377
450790007	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Richland	34.093959	-80.962304
450790019	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Richland	33.993299	-81.024141
450830010	R & P Model 2025 PM2.5 Sequential w/WINS	SC	Spartanburg	34.926839	-82.00521
460110002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Brookings	44.310283	-96.80071
460130003	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Brown	45.4625	-98.486111
460290002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Codington	44.89965	-97.128802
460330132	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Custer	43.5578	-103.4839
460710001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Jackson	43.74561	-101.94122
460990006	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Minnehaha	43.544289	-96.726435
460990007	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Minnehaha	43.537626	-96.682001
461030016	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Pennington	44.064932	-103.20914
461030020	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Pennington	44.087397	-103.27378
461031001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	SD	Pennington	44.080295	-103.22855
470090011	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Blount	35.768333	-83.942222
470370023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Davidson	36.176326	-86.738902
470370025	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Davidson	36.1	-86.734444
470370036	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Davidson	36.118251	-86.873547
470450004	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Dyer	36.052778	-89.381944
470650031	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Hamilton	34.990944	-85.22875
470651011	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Hamilton	35.233527	-85.181806
470654002	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Hamilton	35.050928	-85.292975
470930028	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Knox	35.943611	-84.038889

470931017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Knox	35.975	-83.954444
470931020	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	TN	Knox	36.01944	-83.87361
470990002	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Lawrence	35.116111	-87.47
471050108	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Loudon	35.7447	-84.3174
471071002	R & P Model 2025 PM2.5 Sequential w/WINS	TN	McMinn	35.451111	-84.599167
471130006	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Madison	35.653651	-88.809084
471192007	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Maury	35.643611	-87.013056
471251009	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Montgomery	36.514444	-87.327778
471251010	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Montgomery	36.625	-87.169167
471410001	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Putnam	36.173611	-85.509444
471450004	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Roane	35.9386	-84.5438
471570014	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Shelby	35.085833	-89.949444
471570038	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Shelby	35.184167	-89.930278
471570047	R & P Model 2000 PM2.5 Sampler w/WINS	TN	Shelby	35.16895	-90.021567
471570047	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Shelby	35.16895	-90.021567
471571004	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Shelby	35.377222	-89.832222
471631007	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Sullivan	36.540654	-82.521667
471650007	R & P Model 2025 PM2.5 Sequential w/WINS	TN	Sumner	36.297778	-86.652778
480370004	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Bowie	33.425757	-94.070807
480430002	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Brewster	30.3658	-103.6491
480430101	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Brewster	29.3025	-103.16782
480612002	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Cameron	26.135172	-97.630039
480612004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Cameron	26.073333	-97.166667
481130035	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.916667	-96.768611
481130050	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.774167	-96.797778
481130057	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.7789	-96.873056
481130069	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.819952	-96.860082
481130087	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.6766	-96.8716
481133004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Dallas	32.7106	-96.8033
481350003	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Ector	31.826578	-102.34198
481390015	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Ellis	32.436944	-97.025
481390016	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Ellis	32.481944	-97.0275
481410037	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	El Paso	31.768274	-106.5012
481410044	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	El Paso	31.765673	-106.45523
481410053	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	El Paso	31.758516	-106.50105
481410055	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	El Paso	31.746752	-106.40281
481670014	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Galveston	29.263319	-94.856568
481830001	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Gregg	32.37871	-94.711833
482010024	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.901111	-95.326944
482010026	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.8025	-95.12555
482010055	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Harris	29.695736	-95.499236
482010058	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.770686	-95.031215
482011034	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.767993	-95.220576
482011035	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Harris	29.733713	-95.257591
482030002	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Harrison	32.669003	-94.167449
482150042	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Hidalgo	26.309858	-98.183101
482150043	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Hidalgo	26.226238	-98.291064
482430004	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Jeff Davis	30.66938	-104.02463
482450021	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Jefferson	29.922778	-93.908889
482450022	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Jefferson	29.863951	-94.317757
482570005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Kaufman	32.569167	-96.315833
482730314	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Kleberg	27.42694	-97.29861

483030001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Lubbock	33.590851	-101.84759
483390078	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Montgomery	30.3503	-95.425135
483550032	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Nueces	27.8044	-97.4317
483550034	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Nueces	27.8118	-97.465633
483611001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Orange	30.084444	-93.761667
483611100	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Orange	30.194167	-93.866944
483750005	R & P Model 2025 PM2.5 Sequential w/WINS	TX	Potter	35.209963	-101.83192
483750320	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Potter	35.201588	-101.90924
484391002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Tarrant	32.805	-97.356389
484391006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Tarrant	32.758889	-97.342222
484393006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Tarrant	32.693056	-97.248611
484530020	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	TX	Travis	30.483159	-97.872266
490030003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Box Elder	41.492778	-112.01806
490037001	R & P Model 2000 PM2.5 Sampler w/WINS	UT	Box Elder	41.94595	-112.23318
490050004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Cache	41.731111	-111.8375
490050005	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Cache	41.8594	-111.8952
490050006	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Cache	41.63546	-111.86819
490110004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Davis	40.902967	-111.88447
490350003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.646667	-111.84972
490350012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.8075	-111.92111
490351001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.708611	-112.09472
490353006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.736389	-111.87222
490353007	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Salt Lake	40.704444	-111.96861
490353007	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.704444	-111.96861
490353008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Salt Lake	40.517946	-112.02305
490450003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Tooele	40.543371	-112.29881
490490002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Utah	40.253611	-111.66306
490494001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Utah	40.341389	-111.71361
490495008	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Utah	40.430278	-111.80389
490495010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Utah	40.136389	-111.65972
490570002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	UT	Weber	41.206389	-111.97472
490570007	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Weber	41.179722	-111.98306
490571003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	UT	Weber	41.303683	-111.98707
500010002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Addison	43.926516	-73.384638
500010003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Addison	43.867686	-73.356172
500030004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Bennington	42.88759	-73.24984
500070012	R & P Model 2025 PM2.5 Sequential w/WINS	VT	Chittenden	44.480278	-73.214444
500070012	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Chittenden	44.480278	-73.214444
500070014	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Chittenden	44.4762	-73.2106
500210002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	VT	Rutland	43.608056	-72.982778
510130020	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Arlington	38.8575	-77.059167
510360002	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Charles City	37.343294	-77.260034
510410003	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Chesterfield	37.436111	-77.450833
510590030	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Fairfax	38.772778	-77.105556
510591005	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Fairfax	38.837517	-77.163231
510595001	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Fairfax	38.931944	-77.198889
510870014	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Henrico	37.558333	-77.400278
510870015	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Henrico	37.670278	-77.5675
511071005	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Loudoun	39.024444	-77.49
511390004	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Page	38.663333	-78.504722
515200006	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Bristol City	36.607778	-82.164444
516500004	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Hampton City	37.003333	-76.399167

516800015	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Lynchburg City	37.3605	-79.1883
517100024	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Norfolk City	36.857778	-76.301667
517700014	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Roanoke City	37.256111	-79.985
517750010	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Salem City	37.291944	-80.056944
518100008	R & P Model 2025 PM2.5 Sequential w/WINS	VA	Virginia Beach City	36.841111	-76.181389
530050002	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Benton	46.218611	-119.20556
530070010	R & P Model 2000 PM2.5 Sampler w/WINS	WA	Chelan	47.598863	-120.6647
530110013	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Clark	45.648333	-122.58694
530330024	R & P Model 2025 PM2.5 Sequential w/WINS	WA	King	47.755	-122.2806
530330057	R & P Model 2025 PM2.5 Sequential w/WINS	WA	King	47.563333	-122.3406
530330080	R & P Model 2025 PM2.5 Sequential w/WINS	WA	King	47.570273	-122.3086
530470009	R & P Model 2000 PM2.5 Sampler w/WINS	WA	Okanogan	48.364267	-120.12112
530530029	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Pierce	47.1864	-122.4517
530610005	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Snohomish	47.8064	-122.3167
530611007	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Snohomish	48.055556	-122.1758
530630016	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Spokane	47.660833	-117.35722
530630047	R & P Model 2025 PM2.5 Sequential w/WINS	WA	Spokane	47.701111	-117.425
540030003	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Berkeley	39.448006	-77.964125
540090005	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Brooke	40.338056	-80.597222
540090005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Brooke	40.338056	-80.597222
540110006	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Cabell	38.42451	-82.425323
540290011	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Hancock	40.3945	-80.612034
540290011	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Hancock	40.3945	-80.612034
540291004	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Hancock	40.42154	-80.580898
540291004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Hancock	40.42154	-80.580898
540330003	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Harrison	39.278056	-80.3425
540330003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Harrison	39.278056	-80.3425
540390010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Kanawha	38.34562	-81.628422
540390011	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Kanawha	38.448611	-81.683889
540390011	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Kanawha	38.448611	-81.683889
540391005	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Kanawha	38.368056	-81.693611
540391005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Kanawha	38.368056	-81.693611
540490006	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Marion	39.480833	-80.135278
540490006	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Marion	39.480833	-80.135278
540511002	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Marshall	39.91597	-80.734057
540511002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Marshall	39.91597	-80.734057
540550002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Mercer	37.26732	-81.235857
540610003	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Monongalia	39.649444	-79.921111
540690010	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Ohio	40.1147	-80.70089
540690010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	WV	Ohio	40.1147	-80.70089
540810002	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Raleigh	37.80794	-81.197461
540810002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Raleigh	37.80794	-81.197461
540890001	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Summers	37.773056	-80.706667
540890001	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Summers	37.773056	-80.706667
541071002	R & P Model 2025 PM2.5 Sequential w/WINS	WV	Wood	39.32366	-81.552196
541071002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	WV	Wood	39.32366	-81.552196
550030010	R & P Model 2000 PM2.5 Sampler w/WINS	WI	Ashland	46.61455	-90.69868
550090005	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Brown	44.516667	-87.993889
550090009	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Brown	44.523611	-88.001111
550250047	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Dane	43.073333	-89.435833
550250048	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Dane	43.093	-89.34005
550270007	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Dodge	43.435	-88.527778

550410007	R & P Model 2000 PM2.5 Sampler w/WINS	WI	Forest	45.56498	-88.80859
550410007	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Forest	45.56498	-88.80859
550430009	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Grant	42.69215	-90.68637
550590019	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Kenosha	42.504722	-87.8093
550630012	R & P Model 2025 PM2.5 Sequential w/WINS	WI	La Crosse	43.778	-91.225
550710007	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Manitowoc	44.138611	-87.616111
550790010	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	43.016667	-87.933333
550790026	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	43.061111	-87.9125
550790043	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	43.02641	-87.91111
550790059	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	42.955	-87.934167
550790099	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Milwaukee	43.039722	-87.920556
550870009	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Outagamie	44.306944	-88.395556
550890009	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Ozaukee	43.498056	-87.81
551091002	R & P Model 2025 PM2.5 Sequential w/WINS	WI	St Croix	45.124444	-92.6625
551110007	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Sauk	43.435556	-89.680278
551198001	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Taylor	45.203889	-90.6
551250001	R & P Model 2000 PM2.5 Sampler w/WINS	WI	Vilas	46.048056	-89.653611
551250001	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Vilas	46.048056	-89.653611
551330027	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Waukesha	43.020278	-88.215
551350004	R & P Model 2025 PM2.5 Sequential w/WINS	WI	Waupaca	44.35288	-89.05083
560050877	R & P Model 2025 PM2.5 Sequential w/WINS	WY	Campbell	43.676944	-105.23583
560050892	R & P Model 2025 PM2.5 Sequential w/WINS	WY	Campbell	44.098889	-105.34278
560050899	R & P Model 2025 PM2.5 Sequential w/WINS	WY	Campbell	44.471944	-105.55583
560090819	R & P Model 2025 PM2.5 Sequential w/WINS	WY	Converse	43.426667	-105.38583
560131003	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Fremont	42.841111	-108.73556
560210001	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Laramie	41.14	-104.81722
560330001	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Sheridan	44.797222	-106.94917
560330002	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Sheridan	44.833333	-106.96389
560330003	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Sheridan	44.805556	-106.97556
560350705	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Sublette	42.8706	-109.8602
560390006	R & P Model 2000 PM2.5 Sampler w/WINS	WY	Teton	43.480833	-110.76528
720010002	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Adjuntas	18.174712	-66.726516
720210009	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Bayamon	18.399167	-66.171667
720530003	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Fajardo	18.383333	-65.619444
720570008	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Guyama	17.957222	-66.165556
720590016	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Guyanilla	18.044444	-66.802778
720610005	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Guaynabo	18.439444	-66.115
720690001	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Humacao	18.152778	-65.829167
720970003	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Mayaguez	18.209722	-67.146389
721130004	R & P Model 2025 PM2.5 Sequential w/WINS	PR	Ponce	18.008889	-66.627778
721270003	R & P Model 2025 PM2.5 Sequential w/WINS	PR	San Juan	18.449167	-66.053056
780100012	BGI Model PQ200 PM2.5 Sampler w/WINS	VI		17.714444	-64.785278
780300009	BGI Model PQ200 PM2.5 Sampler w/WINS	VI		18.345278	-64.923333

(N. B.: State abbreviations PR and VI refer to Puerto Rico and the Virgin Islands, respectively

Appendix B

Table B1. Acceptable SC Geographic Information for 2004

AQS_ID	SC_Method	State	County	Latitude	Longitude
010730023	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.553056	-86.815
010731005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.331111	-87.003611
010731009	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.459722	-87.305556
010731010	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.545278	-86.549167
010732003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.499722	-86.924167
010732006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.386389	-86.816667
010735002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.704722	-86.669167
010735003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.801667	-86.9425
060010007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Alameda	37.6875	-121.7842
060750005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Francisco	37.766	-122.3991
060811001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Mateo	37.4829	-122.2034
060850005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Santa Clara	37.3485	-121.895
060950004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Solano	38.1027	-122.2382
110010043	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	DC	District Of Columbia	38.918889	-77.0125
120330004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Escambia	30.525	-87.204167
130210012	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Bibb	32.805244	-83.543628
130210012	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	GA	Bibb	32.805244	-83.543628
130511002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Chatham	32.090278	-81.130556
130511002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	GA	Chatham	32.090278	-81.130556
130590002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Clarke	33.917925	-83.344512
130770002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Coweta	33.403835	-84.746028
130890002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	De Kalb	33.688007	-84.290325
131350002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Gwinnett	33.963074	-84.069193
131510002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Henry	33.433426	-84.161797
132150008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Muscogee	32.521099	-84.944695
132230003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Paulding	33.92855	-85.04548
132450091	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Richmond	33.433883	-82.022414
160010011	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Ada	43.636111	-116.27028
160010011	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Ada	43.636111	-116.27028
160090011	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Benewah	47.338702	-116.88461
160150001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Boise	43.823017	-115.83856
160150001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Boise	43.823017	-115.83856
160150002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Boise	44.104498	-115.97239
160150002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Boise	44.104498	-115.97239
160270004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Canyon	43.562401	-116.56323
160270004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.562401	-116.56323
160490002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Idaho	45.931389	-116.11528
160490002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Idaho	45.931389	-116.11528
160550006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Kootenai	47.682315	-116.76553
160550006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Kootenai	47.682315	-116.76553
160550014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Kootenai	47.721597	-116.92615
160550014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Kootenai	47.721597	-116.92615
160570005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Latah	46.721932	-116.95918
160690012	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Nez Perce	46.404722	-116.96889
160770011	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Power	42.9125	-112.53556
160790017	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric	ID	Shoshone	47.536389	-116.23667
160790017	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Shoshone	47.536389	-116.23667
160790017	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Shoshone	47.536389	-116.23667
160830010	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Twin Falls	42.564097	-114.4462

160830010	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Twin Falls	42.564097	-114.4462
160850001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Valley	44.899318	-116.09391
160850001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Valley	44.899318	-116.09391
180030004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Allen	41.094722	-85.101944
180890022	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Lake	41.606667	-87.304722
180970078	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
180970078	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
181630012	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Vanderburgh	38.021667	-87.569444
220150008	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Bossier	32.534167	-93.749722
220190008	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Calcasieu	30.261667	-93.284167
220330013	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	East Baton Rouge	30.700278	-91.055833
220511001	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Jefferson	30.043333	-90.275
220570004	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Lafourche	29.763889	-90.765183
220630002	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Livingston	30.3125	-90.8125
220710012	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Orleans	29.994444	-90.102778
221210001	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	West Baton Rouge	30.501944	-91.209722
245100040	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MD	Baltimore City	39.298056	-76.604722
250051004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Bristol	41.6857	-71.1698
250095005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Essex	42.762778	-71.105833
250130016	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Hampden	42.108889	-72.591389
250213003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Norfolk	42.21222	-71.11472
250250042	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.329444	-71.082778
250250043	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.362778	-71.054167
250270023	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Worcester	42.265802	-71.794835
270031002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Anoka	45.13975	-93.207616
270177416	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MN	Carlton	46.705241	-92.523606
270370470	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Dakota	44.740751	-93.237293
270530963	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Hennepin	44.955396	-93.25827
271095008	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Olmsted	43.996908	-92.450366
271230871	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Ramsey	44.961451	-93.035894
271377551	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	St Louis	46.766667	-92.133056
271453052	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Stearns	45.549839	-94.13345
271713201	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Wright	45.211038	-93.669012
280110001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Bolivar	33.746056	-90.723028
280470008	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Harrison	30.390139	-89.049722
280490018	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Hinds	32.296806	-90.188306
280810005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Lee	34.264917	-88.766222
300310013	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Gallatin	44.657778	-111.09083
350130016	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	32.003611	-106.59917
350130017	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	31.795833	-106.5575
350130021	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	31.796111	-106.58389
350130022	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	31.787778	-106.68278
350151005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Eddy	32.38	-104.26222
350250008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Lea	32.726656	-103.12292
350490020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Santa Fe	35.671111	-105.95361
350550005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Taos	36.383333	-105.58333
370210034	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Buncombe	35.609722	-82.350833
410030013	Correlated Radiance Research M903-Nephelometry	OR	Benton	44.588322	-123.27417
410050004	Correlated Radiance Research M903-Nephelometry	OR	Clackamas	45.259722	-122.5875
410090004	Correlated Radiance Research M903-Nephelometry	OR	Columbia	45.768056	-122.77194
410170120	Correlated Radiance Research M903-Nephelometry	OR	Deschutes	44.063904	-121.31258
410250002	Correlated Radiance Research M903-Nephelometry	OR	Harney	43.586389	-119.05111

410290133	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.314078	-122.87924
410294001	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.426389	-122.85083
410330114	Correlated Radiance Research M903-Nephelometry	OR	Josephine	42.434139	-123.34849
410350004	Correlated Radiance Research M903-Nephelometry	OR	Klamath	42.188889	-121.7225
410370001	Correlated Radiance Research M903-Nephelometry	OR	Lake	42.188889	-120.35194
410390060	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.026312	-123.08374
410391009	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.046696	-123.0177
410392013	Correlated Radiance Research M903-Nephelometry	OR	Lane	43.744352	-122.48052
410430009	Correlated Radiance Research M903-Nephelometry	OR	Linn	44.615648	-123.0916
410470040	Correlated Radiance Research M903-Nephelometry	OR	Marion	44.943231	-123.006
410470041	Correlated Radiance Research M903-Nephelometry	OR	Marion	44.94314	-123.00591
410510080	Correlated Radiance Research M903-Nephelometry	OR	Multnomah	45.496667	-122.60222
410510246	Correlated Radiance Research M903-Nephelometry	OR	Multnomah	45.561301	-122.67878
410590121	Correlated Radiance Research M903-Nephelometry	OR	Umatilla	45.651944	-118.81861
410610119	Correlated Radiance Research M903-Nephelometry	OR	Union	45.338972	-117.9048
410650007	Correlated Radiance Research M903-Nephelometry	OR	Wasco	45.602399	-121.20335
410670111	Correlated Radiance Research M903-Nephelometry	OR	Washington	45.4702	-122.81585
410671003	Correlated Radiance Research M903-Nephelometry	OR	Washington	45.518294	-122.96705
470370023	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Davidson	36.176326	-86.738902
471570024	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Shelby	35.150833	-90.041389
471570038	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Shelby	35.184167	-89.930278
530010003	Correlated Radiance Research M903-Nephelometry	WA	Adams	47.128611	-118.38194
530050002	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Benton	46.218611	-119.20556
530050002	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Benton	46.218611	-119.20556
530070006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Chelan	47.412222	-120.31833
530070006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Chelan	47.412222	-120.31833
530090009	Correlated Radiance Research M903-Nephelometry	WA	Clallam	48.116389	-123.46444
530110013	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Clark	45.648333	-122.58694
530110013	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Clark	45.648333	-122.58694
530130001	Correlated Radiance Research M903-Nephelometry	WA	Columbia	46.531521	-118.21667
530150015	Correlated Radiance Research M903-Nephelometry	WA	Cowlitz	46.139444	-122.96194
530210002	Correlated Radiance Research M903-Nephelometry	WA	Franklin	46.575597	-119.00071
530251002	Correlated Radiance Research M903-Nephelometry	WA	Grant	47.130336	-119.2726
530270011	Correlated Radiance Research M903-Nephelometry	WA	Grays Harbor	47.343709	-124.28692
530272002	Correlated Radiance Research M903-Nephelometry	WA	Grays Harbor	46.972696	-123.83047
530310003	Correlated Radiance Research M903-Nephelometry	WA	Jefferson	48.129444	-122.77944
530330017	Correlated Radiance Research M903-Nephelometry	WA	King	47.489722	-121.77333
530330017	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.489722	-121.77333
530330017	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.489722	-121.77333
530330023	Correlated Radiance Research M903-Nephelometry	WA	King	47.141111	-121.93306
530330024	Correlated Radiance Research M903-Nephelometry	WA	King	47.755	-122.2806
530330024	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.755	-122.2806
530330024	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.755	-122.2806
530330027	Correlated Radiance Research M903-Nephelometry	WA	King	47.795	-122.12944
530330037	Correlated Radiance Research M903-Nephelometry	WA	King	47.613056	-122.20167
530330048	Correlated Radiance Research M903-Nephelometry	WA	King	47.6153	-122.32972
530330057	Correlated Radiance Research M903-Nephelometry	WA	King	47.563333	-122.3406
530330057	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.563333	-122.3406
530330057	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.563333	-122.3406
530330080	Correlated Radiance Research M903-Nephelometry	WA	King	47.570273	-122.3086
530330080	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.570273	-122.3086
530330080	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.570273	-122.3086

530331011	Correlated Radiance Research M903-Nephelometry	WA	King	47.5297	-122.3203
530332004	Correlated Radiance Research M903-Nephelometry	WA	King	47.386111	-122.2319
530332004	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.386111	-122.2319
530332004	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.386111	-122.2319
530370002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Kittitas	46.996111	-120.54528
530450004	Correlated Radiance Research M903-Nephelometry	WA	Mason	47.227833	-123.11456
530470009	Correlated Radiance Research M903-Nephelometry	WA	Okanogan	48.364267	-120.12112
530470010	Correlated Radiance Research M903-Nephelometry	WA	Okanogan	48.477198	-120.19056
530530029	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.1864	-122.4517
530530029	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Pierce	47.1864	-122.4517
530530029	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Pierce	47.1864	-122.4517
530530031	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.2656	-122.3858
530530031	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Pierce	47.2656	-122.3858
530530031	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Pierce	47.2656	-122.3858
530531018	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.140556	-122.3003
530531020	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.211	-122.357
530610005	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	47.8064	-122.3167
530610005	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Snohomish	47.8064	-122.3167
530610005	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Snohomish	47.8064	-122.3167
530611007	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	48.055556	-122.1758
530611007	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Snohomish	48.055556	-122.1758
530611007	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Snohomish	48.055556	-122.1758
530630016	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Spokane	47.660833	-117.35722
530630016	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Spokane	47.660833	-117.35722
530630016	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Spokane	47.660833	-117.35722
530630016	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Spokane	47.660833	-117.35722
530630047	Correlated Radiance Research M903-Nephelometry	WA	Spokane	47.701111	-117.425
530650004	Correlated Radiance Research M903-Nephelometry	WA	Stevens	48.544722	-117.90361
530670013	Correlated Radiance Research M903-Nephelometry	WA	Thurston	47.028889	-122.82083
530670013	PM2.5 WINS w/Correction Factor-TEOM Gravimetric	WA	Thurston	47.028889	-122.82083
530670013	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Thurston	47.028889	-122.82083
530670013	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Thurston	47.028889	-122.82083
530710005	Correlated Radiance Research M903-Nephelometry	WA	Walla Walla	46.060833	-118.34833
530730015	Correlated Radiance Research M903-Nephelometry	WA	Whatcom	48.762778	-122.44028
530750003	Correlated Radiance Research M903-Nephelometry	WA	Whitman	46.724722	-117.17944
530750005	Correlated Radiance Research M903-Nephelometry	WA	Whitman	46.81728	-117.87403
530750006	Correlated Radiance Research M903-Nephelometry	WA	Whitman	47.233063	-117.36908
530770009	Correlated Radiance Research M903-Nephelometry	WA	Yakima	46.59678	-120.51222
551330027	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	WI	Waukesha	43.020278	-88.215

Table B2. Atmospheric SC Geographic Information for 2004

AQS_ID	SC_Method	State	County	Latitude	Longitude
080131001	PM2.5 SCC-FDMS-Gravimetric	CO	Boulder	40.01297	-105.26719
080310002	PM2.5 SCC-FDMS-Gravimetric	CO	Denver	39.751185	-104.98762
080350004	PM2.5 SCC-FDMS-Gravimetric	CO	Douglas	39.53448	-105.07035
191130037	PM2.5 SCC-FDMS-Gravimetric	IA	Linn	42.008333	-91.678611
202090021	PM2.5 SCC-FDMS-Gravimetric	KS	Wyandotte	39.1175	-94.635556
260050003	PM2.5 SCC-FDMS-Gravimetric	MI	Allegan	42.767778	-86.148611
260490021	PM2.5 SCC-FDMS-Gravimetric	MI	Genesee	43.04722	-83.670278
260650012	PM2.5 SCC-FDMS-Gravimetric	MI	Ingham	42.738611	-84.534722
260770008	PM2.5 SCC-FDMS-Gravimetric	MI	Kalamazoo	42.278056	-85.541944
260810020	PM2.5 SCC-FDMS-Gravimetric	MI	Kent	42.984167	-85.671389
261130001	PM2.5 SCC-FDMS-Gravimetric	MI	Missaukee	44.310556	-84.891944
261450018	PM2.5 SCC-FDMS-Gravimetric	MI	Saginaw	43.508333	-83.968056
261470005	PM2.5 SCC-FDMS-Gravimetric	MI	St Clair	42.953333	-82.456389
261610008	PM2.5 SCC-FDMS-Gravimetric	MI	Washtenaw	42.240556	-83.599722
261630001	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.228611	-83.208333
261630033	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.306666	-83.148889
290390001	PM2.5 SCC-FDMS-Gravimetric	MO	Cedar	37.695833	-94.0375
291860005	PM2.5 SCC-FDMS-Gravimetric	MO	Ste Genevieve	37.896944	-90.422222
291893001	PM2.5 SCC-FDMS-Gravimetric	MO	St Louis	38.641389	-90.345833
330150014	PM2.5 VSCC-FDMS-Gravimetric	NH	Rockingham	43.075278	-70.748056
390490029	PM2.5 SCC-FDMS-Gravimetric	OH	Franklin	40.086667	-82.815556
390810017	PM2.5 SCC-FDMS-Gravimetric	OH	Jefferson	40.366104	-80.615002
391530017	PM2.5 SCC-FDMS-Gravimetric	OH	Summit	41.063333	-81.468611
420070014	PM2.5 SCC-FDMS-Gravimetric	PA	Beaver	40.747778	-80.316667
420110009	PM2.5 SCC-FDMS-Gravimetric	PA	Berks	40.320278	-75.926667
420710007	PM2.5 SCC-FDMS-Gravimetric	PA	Lancaster	40.046667	-76.283333
420910013	PM2.5 SCC-FDMS-Gravimetric	PA	Montgomery	40.112222	-75.309167
421330008	PM2.5 SCC-FDMS-Gravimetric	PA	York	39.965278	-76.699444
450450008	PM2.5 SCC-FDMS-Gravimetric	SC	Greenville	34.838814	-82.402914
500030004	PM2.5 VSCC-FDMS-Gravimetric	VT	Bennington	42.88759	-73.24984
500070014	PM2.5 VSCC-FDMS-Gravimetric	VT	Chittenden	44.4762	-73.2106
500210002	PM2.5 VSCC-FDMS-Gravimetric	VT	Rutland	43.608056	-72.982778
550090005	PM2.5 SCC-FDMS-Gravimetric	WI	Brown	44.516667	-87.993889
550270007	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	WI	Dodge	43.435	-88.527778
550270007	PM2.5 SCC-FDMS-Gravimetric	WI	Dodge	43.435	-88.527778
550590019	PM2.5 SCC-FDMS-Gravimetric	WI	Kenosha	42.504722	-87.8093
550710007	PM2.5 SCC-FDMS-Gravimetric	WI	Manitowoc	44.138611	-87.616111
550790026	PM2.5 SCC-FDMS-Gravimetric	WI	Milwaukee	43.061111	-87.9125
550790059	PM2.5 SCC-FDMS-Gravimetric	WI	Milwaukee	42.955	-87.934167
550890009	PM2.5 SCC-FDMS-Gravimetric	WI	Ozaukee	43.498056	-87.81
551091002	PM2.5 SCC-FDMS-Gravimetric	WI	St Croix	45.124444	-92.6625
551110007	PM2.5 SCC-FDMS-Gravimetric	WI	Sauk	43.435556	-89.680278
551198001	PM2.5 SCC-FDMS-Gravimetric	WI	Taylor	45.203889	-90.6
551330027	PM2.5 SCC-FDMS-Gravimetric	WI	Waukesha	43.020278	-88.215

Table B3. Raw SC Geographic Information for 2004

AQS_ID	SC_Method	State	County	Latitude	Longitude
010890014	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	AL	Madison	34.68767	-86.58637
010970003	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	AL	Mobile	30.769722	-88.0875
011190002	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	AL	Sumter	32.363889	-88.201944
040191030	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	31.87952	-110.99644
040191032	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	32.17295	-110.98005
040191034	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	32.38082	-111.12716
040191113	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	32.2518	-110.9653
060070002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Butte	39.7575	-121.84222
060074001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Butte	39.321667	-121.66861
060111002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Colusa	39.203056	-122.01667
060170011	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	El Dorado	38.945	-119.96889
060172003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	El Dorado	38.84222	-120.4066
060190008	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Fresno	36.781389	-119.77222
060210002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Glenn	39.517778	-122.19028
060250005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Imperial	32.676111	-115.48333
060250006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Imperial	32.677778	-115.38972
060290014	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Kern	35.356111	-119.04028
060410003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Marin	38.126944	-122.91389
060431001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Mariposa	37.745833	-119.60278
060610006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Placer	38.745833	-121.26528
060610007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Placer	39.184166	-120.12195
060631009	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Plumas	39.808333	-120.47167
060670006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.614167	-121.36694
060670010	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.558333	-121.49194
060670011	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.301944	-121.42222
060670012	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.683889	-121.16278
060990005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Stanislaus	37.641667	-120.99361
061010003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sutter	39.138889	-121.6175
061072002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Tulare	36.332222	-119.29028
061110010	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	33.2569	-119.4869
061112002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.2775	-118.68472
061130004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Yolo	38.533333	-121.775
080010006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	CO	Adams	39.825739	-104.93699
080010006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Adams	39.825739	-104.93699
080010006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Adams	39.825739	-104.93699
080310013	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	CO	Denver	39.73858	-104.93996
080310013	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Denver	39.73858	-104.93996
080310013	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Denver	39.73858	-104.93996
080350004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Douglas	39.53448	-105.07035
081230006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	CO	Weld	40.414722	-104.70611
081230006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Weld	40.414722	-104.70611
081230006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Weld	40.414722	-104.70611
090010010	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Fairfield	41.170833	-73.194722
090031018	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Hartford	41.760833	-72.670833
090032006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Hartford	41.7425	-72.634444
090050005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Litchfield	41.821389	-73.297222
090090027	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.301111	-72.902778
090091123	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.310833	-72.916944
090092123	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.550556	-73.043611

100010002	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	Kent	38.984722	-75.555556
100032004	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	New Castle	39.739444	-75.558056
120111002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Broward	26.082778	-80.237778
120310098	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Duval	30.135556	-81.634167
120310100	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Duval	30.261	-81.454
120570030	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.931944	-82.509722
120571065	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.892222	-82.538611
120574004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.9925	-82.125833
120690001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Lake	29.107778	-81.633056
120690003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Lake	29.014	-81.64119
120730012	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Leon	30.439722	-84.348333
120731005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Leon	30.266944	-84.428333
120861016	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Miami-Dade	25.794167	-80.206111
120866001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Miami-Dade	25.471389	-80.483333
120952002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Orange	28.599444	-81.363056
120991004	Andersen BAM w/PM2.5 WINS-Beta Attenuation	FL	Palm Beach	26.693056	-80.099444
121030018	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Pinellas	27.785556	-82.74
160010011	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Ada	43.636111	-116.27028
160050015	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ID	Bannock	42.876725	-112.46035
160050015	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Bannock	42.876725	-112.46035
160050015	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Bannock	42.876725	-112.46035
160150001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Boise	43.823017	-115.83856
160150002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Boise	44.104498	-115.97239
160170005	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Bonner	48.2675	-116.57222
160170005	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Bonner	48.2675	-116.57222
160190013	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ID	Bonneville	43.518267	-112.02071
160190013	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Bonneville	43.518267	-112.02071
160190013	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Bonneville	43.518267	-112.02071
160270004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.562401	-116.56323
160270007	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.705583	-116.6232
160290003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ID	Caribou	42.661298	-111.59144
160290003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Caribou	42.661298	-111.59144
160290003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Caribou	42.661298	-111.59144
160390002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Elmore	43.15175	-115.71014
160450001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ID	Gem	43.856442	-116.51546
160490002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Idaho	45.931389	-116.11528
160490003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Idaho	46.2094	-116.0275
160550014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Kootenai	47.721597	-116.92615
160570005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Latah	46.721932	-116.95918
160590004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ID	Lemhi	45.170556	-113.89222
160590004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Lemhi	45.170556	-113.89222
160590004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Lemhi	45.170556	-113.89222
160690012	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Nez Perce	46.404722	-116.96889
160690013	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Nez Perce	46.3972	-116.8062
160690014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Nez Perce	46.335	-116.5359
160790017	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Shoshone	47.536389	-116.23667
160830010	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Twin Falls	42.564097	-114.4462
160850001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Valley	44.899318	-116.09391
170310001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.672745	-87.732457
170310022	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.689195	-87.539318
170310057	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.914733	-87.722725
170310076	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.751369	-87.713745

170314007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	42.060278	-87.863333
170314101	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	42.053333	-88.108056
170316006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.874944	-87.825876
170434002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Du Page	41.771195	-88.152502
171150013	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Macon	39.866944	-88.925556
171630010	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	St Clair	38.612222	-90.160278
180030004	PM2.5 SCC-FDMS-Gravimetric	IN	Allen	41.094722	-85.101944
180431004	PM2.5 SCC-FDMS-Gravimetric	IN	Floyd	38.308056	-85.834167
180892004	PM2.5 SCC-FDMS-Gravimetric	IN	Lake	41.585278	-87.474444
180970078	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
180970078	PM2.5 SCC-FDMS-Gravimetric	IN	Marion	39.811097	-86.114469
181270024	PM2.5 SCC-FDMS-Gravimetric	IN	Porter	41.6175	-87.199167
181411008	PM2.5 SCC-FDMS-Gravimetric	IN	St Joseph	41.693611	-86.236667
181630012	PM2.5 SCC-FDMS-Gravimetric	IN	Vanderburgh	38.021667	-87.569444
181670018	PM2.5 SCC-FDMS-Gravimetric	IN	Vigo	39.486111	-87.401389
190330018	PM2.5 SCC-FDMS-Gravimetric	IA	Cerro Gordo	43.169444	-93.202222
190330018	PM2.5 VSCC-FDMS-Gravimetric	IA	Cerro Gordo	43.169444	-93.202222
190450019	PM2.5 SCC-FDMS-Gravimetric	IA	Clinton	41.823056	-90.211944
190450019	PM2.5 VSCC-FDMS-Gravimetric	IA	Clinton	41.823056	-90.211944
191130037	PM2.5 SCC-FDMS-Gravimetric	IA	Linn	42.008333	-91.678611
191370002	PM2.5 SCC-FDMS-Gravimetric	IA	Montgomery	40.971211	-95.043868
191370002	PM2.5 VSCC-FDMS-Gravimetric	IA	Montgomery	40.971211	-95.043868
191471002	PM2.5 SCC-FDMS-Gravimetric	IA	Palo Alto	43.123333	-94.693333
191471002	PM2.5 VSCC-FDMS-Gravimetric	IA	Palo Alto	43.123333	-94.693333
191530030	PM2.5 SCC-FDMS-Gravimetric	IA	Polk	41.603132	-93.643234
191630015	PM2.5 SCC-FDMS-Gravimetric	IA	Scott	41.53	-90.5875
191630015	PM2.5 VSCC-FDMS-Gravimetric	IA	Scott	41.53	-90.5875
191630019	PM2.5 SCC-FDMS-Gravimetric	IA	Scott	41.517778	-90.618611
191630019	PM2.5 VSCC-FDMS-Gravimetric	IA	Scott	41.517778	-90.618611
191770005	PM2.5 SCC-FDMS-Gravimetric	IA	Van Buren	40.689167	-91.994444
191770005	PM2.5 VSCC-FDMS-Gravimetric	IA	Van Buren	40.689167	-91.994444
191770006	PM2.5 VSCC-FDMS-Gravimetric	IA	Van Buren	40.695078	-92.006318
201070002	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	KS	Linn	38.135833	-94.731944
201950001	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	KS	Trego	38.770278	-99.763611
211110027	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.137222	-85.578333
211110043	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.233222	-85.825278
211110048	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.240556	-85.731667
211110051	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.060833	-85.896111
230010011	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Androscoggin	44.089444	-70.215
230050027	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Cumberland	43.661944	-70.265833
230090103	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Hancock	44.37705	-68.2609
230190002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Penobscot	44.798849	-68.769745
240230002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Garrett	39.705916	-79.012028
245100040	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Baltimore City	39.298056	-76.604722
260650012	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Ingham	42.738611	-84.534722
260810020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Kent	42.984167	-85.671389
261130001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Missaukee	44.310556	-84.891944
261470005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	St Clair	42.953333	-82.456389
261530001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Schoolcraft	46.28888	-85.95027
261610008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Washtenaw	42.240556	-83.599722
261630001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.228611	-83.208333
261630033	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.306666	-83.148889

295100085	PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 30 deg C	MO	St Louis City	38.6563	-90.1981
330074002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NH	Coos	44.290556	-71.225
330090008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NH	Grafton	44.083889	-72.01
330110020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NH	Hillsborough	43.000556	-71.468056
330115001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NH	Hillsborough	42.861901	-71.878613
340030004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Bergen	40.85435	-73.96825
340070003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Camden	39.92304	-75.09762
340230006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Middlesex	40.47279	-74.42251
340390004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Union	40.64144	-74.20836
350010019	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.10728	-106.56359
350010019	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Bernalillo	35.10728	-106.56359
350010027	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.1539	-106.69715
350010029	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.01708	-106.65735
350011013	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.19324	-106.61382
350015010	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.035933	-106.39008
350439004	PM2.5 VSCC-FDMS-Gravimetric	NM	Sandoval	35.615278	-106.72444
360010005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Albany	42.6424	-73.75453
360050110	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81616	-73.90207
360050112	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81564	-73.8851
360050113	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.80838	-73.92604
360290005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.87684	-78.80988
360310003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Essex	44.39309	-73.85892
360470052	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.64154	-74.01835
360470118	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.69457	-73.92778
360470121	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.68577	-73.99243
360551007	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Monroe	43.146198	-77.54813
360556001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Monroe	43.161	-77.60357
360590005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Nassau	40.7432	-73.58543
360610062	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72052	-74.00409
360610115	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.8489	-73.93068
360610117	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72333	-73.98231
360610119	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.81148	-73.95316
360610125	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.71163	-74.00514
360632008	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Niagara	43.08216	-79.00099
360632008	PM2.5 SCC-FDMS-Gravimetric	NY	Niagara	43.08216	-79.00099
360652001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Oneida	43.0994	-75.22519
360710002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Orange	41.49947	-74.00973
360810120	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.72695	-73.89314
360810124	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.7362	-73.82317
360810124	PM2.5 SCC-FDMS-Gravimetric	NY	Queens	40.7362	-73.82317
360850111	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Richmond	40.57997	-74.19872
360850114	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Richmond	40.63136	-74.15717
361030009	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	NY	Suffolk	40.8275	-73.05694
361030010	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	NY	Suffolk	40.82686	-73.05734
361192004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Westchester	41.052	-73.76398
370210034	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Buncombe	35.609722	-82.350833
370350004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Catawba	35.728889	-81.365556
370510009	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Cumberland	35.041416	-78.953112
370570002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Davidson	35.814444	-80.2625
370570003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Davidson	35.77881	-80.30236
370670022	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.110556	-80.226667
370810013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Guilford	36.109167	-79.801111

371110004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mc Dowell	35.687404	-81.993789
371170001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Martin	35.81069	-76.89782
371190041	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.240278	-80.785556
371190042	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.151389	-80.866944
371290002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	New Hanover	34.364167	-77.838611
371730002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Swain	35.435509	-83.443697
371830014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Wake	35.856111	-78.574167
380070002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ND	Billings	46.8943	-103.37853
380070002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ND	Billings	46.8943	-103.37853
380130002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Burke	48.9904	-102.7815
380130002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ND	Burke	48.9904	-102.7815
380130004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ND	Burke	48.64193	-102.4018
380130004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ND	Burke	48.64193	-102.4018
380171004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ND	Cass	46.933754	-96.85535
380171004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ND	Cass	46.933754	-96.85535
380250003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ND	Dunn	47.3132	-102.5273
380530002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ND	McKenzie	47.5812	-103.2995
380530002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ND	McKenzie	47.5812	-103.2995
380570004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ND	Mercer	47.298611	-101.76694
380570004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ND	Mercer	47.298611	-101.76694
380650002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ND	Oliver	47.185833	-101.42806
380650002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ND	Oliver	47.185833	-101.42806
390171004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	OH	Butler	39.53	-84.3925
390490028	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Franklin	39.914167	-82.957222
390490029	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Franklin	40.086667	-82.815556
390610040	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Hamilton	39.128611	-84.504167
390933002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Lorain	41.463056	-82.114444
390950024	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Lucas	41.644167	-83.546667
390990014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Mahoning	41.095868	-80.658426
391130031	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Montgomery	39.759444	-84.144444
391130032	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Montgomery	39.760278	-84.187778
391351001	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Preble	39.835556	-84.720833
391510020	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Stark	40.800556	-81.373333
391530017	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Summit	41.063333	-81.468611
400190297	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Carter	34.257125	-97.474341
400270049	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Cleveland	35.320105	-97.484099
400310647	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Comanche	34.626418	-98.383173
400979014	PM2.5 SCC-FDMS-Gravimetric	OK	Mayes	36.2284	-95.25
401091037	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Oklahoma	35.614131	-97.475083
401159005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Ottawa	36.9858	-94.8492
401431127	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Tulsa	36.204902	-95.976537
420010001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Adams	39.92	-77.31
420030008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.465556	-79.961111
420030064	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.323611	-79.868333
420050001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Armstrong	40.814167	-79.565
420210011	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Cambria	40.309722	-78.915
420430401	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Dauphin	40.245	-76.844722
420950025	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Northampton	40.628056	-75.341111
420958000	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Northampton	40.692224	-75.237156
450070003	Andersen BAM w/PM2.5 SCC-Beta Attenuation	SC	Anderson	34.776927	-82.490386
450070003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Anderson	34.776927	-82.490386
450190046	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Charleston	32.941023	-79.657187

450190046	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	SC	Charleston	32.941023	-79.657187
450250001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Chesterfield	34.615367	-80.198787
450250001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Chesterfield	34.615367	-80.198787
450290002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Colleton	33.009562	-80.965042
450370001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Edgefield	33.741693	-81.853633
450450008	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.838814	-82.402914
450450008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	SC	Greenville	34.838814	-82.402914
450450009	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.901046	-82.31307
450730001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Oconee	34.805261	-83.2377
450770002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Pickens	34.655221	-82.838653
450790018	Andersen BAM w/PM2.5 SCC-Beta Attenuation	SC	Richland	33.984002	-81.040235
450790018	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Richland	33.984002	-81.040235
461030020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	SD	Pennington	44.087397	-103.27378
470090101	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Blount	35.631389	-83.943611
470654002	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Hamilton	35.050928	-85.292975
470931013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Knox	35.98055	-83.93277
470990002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Lawrence	35.116111	-87.47
471650007	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Sumner	36.297778	-86.652778
480290053	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Bexar	29.58773	-98.312479
480290055	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Bexar	29.407222	-98.431111
480290059	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Bexar	29.275387	-98.311666
480610006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Cameron	25.892508	-97.493824
481130069	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Dallas	32.819952	-96.860082
481133003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Dallas	32.769379	-96.546299
481210034	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Denton	33.191667	-97.193333
481350003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Ector	31.826578	-102.34198
481351014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Ector	31.870233	-102.33477
481390015	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Ellis	32.436944	-97.025
481390017	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Ellis	32.473611	-97.0425
481410037	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.768274	-106.5012
481410053	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.758516	-106.50105
481670014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Galveston	29.263319	-94.856568
482010024	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.901111	-95.326944
482010026	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.8025	-95.12555
482011034	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.767993	-95.220576
482011035	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.733713	-95.257591
482011039	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.670046	-95.128485
482011042	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	30.065278	-95.1875
482011050	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.583031	-95.015535
482030002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Harrison	32.669003	-94.167449
482150043	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Hidalgo	26.226238	-98.291064
482450020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	30.066944	-94.077222
482450021	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	29.922778	-93.908889
482450022	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	29.863951	-94.317757
482570005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Kaufman	32.569167	-96.315833
482730314	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Kleberg	27.42694	-97.29861
483030001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Lubbock	33.590851	-101.84759
483390078	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Montgomery	30.3503	-95.425135
483550025	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Nueces	27.7653	-97.4342
483611100	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Orange	30.194167	-93.866944
483750005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Potter	35.209963	-101.83192
484391006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Tarrant	32.758889	-97.342222

484393008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Tarrant	32.810833	-97.336944
484393009	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Tarrant	32.984167	-97.063611
484393011	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Tarrant	32.65639	-97.08889
484530014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Travis	30.354426	-97.760257
484530020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Travis	30.483159	-97.872266
484790313	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Webb	27.5994	-99.5333
490353006	PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 30 deg C	UT	Salt Lake	40.736389	-111.87222
490353006	PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 50 deg C	UT	Salt Lake	40.736389	-111.87222
510591005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Fairfax	38.837517	-77.163231
510870014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Henrico	37.558333	-77.400278
511130003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Madison	38.521944	-78.436111
516500004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Hampton City	37.003333	-76.399167
517700015	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Roanoke City	37.297178	-79.95557
560391012	Andersen BAM w/PM2.5 SCC-Beta Attenuation	WY	Teton	44.457778	-110.82917
720170003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PR	Barceloneta	18.436111	-66.580556
720250003	PM2.5 WINS w/Correction Factor-TEOM Gravimetric	PR	Caguas	18.232499	-66.037023
720250003	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 50 deg C	PR	Caguas	18.232499	-66.037023
720330008	PM2.5 WINS w/Correction Factor-TEOM Gravimetric	PR	Catano	18.440028	-66.127076
720330009	PM2.5 WINS w/Correction Factor-TEOM Gravimetric	PR	Catano	18.449964	-66.149043
800020004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MX	Baja California*	32.343333	-117.05472
800020012	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MX	Baja California**	32.629167	-115.44694
CC0110002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 40 deg C	SK	***	49.135138	-102.98486

(N. B.: State abbreviations PR, MX, and SK refer to Puerto Rico, Mexico, and Saskatchewan, respectively.)
***Approximately 21 km south of the California border near Rosarita, Baja California, Mexico.**
****Approximately 3 km south of the California border near Mexicali, Baja California, Mexico.**
*****Approximately 14 km north of the North Dakota border near Estevan, Saskatchewan, Canada.**

Table B4. Acceptable SC Geographic Information for 2005

AQS_ID	SC_Method	State	County	Latitude	Longitude
010730023	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.553056	-86.815
010730023	PM2.5 SCC-FDMS-Gravimetric	AL	Jefferson	33.553056	-86.815
010731005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.331111	-87.003611
010731009	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.459722	-87.305556
010731010	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.545278	-86.549167
010732003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.499722	-86.924167
010732006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.386389	-86.816667
010735002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.704722	-86.669167
010735003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.801667	-86.9425
060010007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Alameda	37.6875	-121.7842
060750005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Francisco	37.766	-122.3991
060811001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Mateo	37.4829	-122.2034
060850005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Santa Clara	37.3485	-121.895
060950004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Solano	38.1027	-122.2382
110010043	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	DC	District Of Columbia	38.918889	-77.0125
120330004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Escambia	30.525	-87.204167
130210012	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Bibb	32.805244	-83.543628
130511002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Chatham	32.090278	-81.130556
130590002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Clarke	33.917925	-83.344512
130770002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Coweta	33.403835	-84.746028
130890002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	De Kalb	33.688007	-84.290325
131210055	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Fulton	33.720428	-84.357449
131350002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Gwinnett	33.963074	-84.069193
131510002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Henry	33.433426	-84.161797
132150008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Muscogee	32.521099	-84.944695
132230003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Paulding	33.92855	-85.04548
132450091	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Richmond	33.433883	-82.022414
132970001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Walton	33.625129	-83.68176
160010011	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Ada	43.636111	-116.27028
160010011	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Ada	43.636111	-116.27028
160050015	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Bannock	42.876725	-112.46035
160050015	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Bannock	42.876725	-112.46035
160090011	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Benewah	47.338702	-116.88461
160150001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Boise	43.823017	-115.83856
160150001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Boise	43.823017	-115.83856
160150002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Boise	44.104498	-115.97239
160150002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Boise	44.104498	-115.97239
160190013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Bonneville	43.518267	-112.02071
160190013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Bonneville	43.518267	-112.02071
160270004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Canyon	43.562401	-116.56323
160270004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.562401	-116.56323
160490002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Idaho	45.931389	-116.11528
160490002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Idaho	45.931389	-116.11528
160550006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Kootenai	47.682315	-116.76553
160550006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Kootenai	47.682315	-116.76553
160550014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Kootenai	47.721597	-116.92615
160550014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Kootenai	47.721597	-116.92615
160570005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Latah	46.721932	-116.95918
160570005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Latah	46.721932	-116.95918

160590004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Lemhi	45.170556	-113.89222
160590004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Lemhi	45.170556	-113.89222
160690012	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Nez Perce	46.404722	-116.96889
160690012	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Nez Perce	46.404722	-116.96889
160770011	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Power	42.9125	-112.53556
160790017	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Shoshone	47.536389	-116.23667
160790017	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Shoshone	47.536389	-116.23667
160830010	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Twin Falls	42.564097	-114.4462
160830010	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Twin Falls	42.564097	-114.4462
160850001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Valley	44.899318	-116.09391
160850001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Valley	44.899318	-116.09391
160850002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Valley	44.890197	-116.1065
180030004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Allen	41.094722	-85.101944
180890022	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Lake	41.606667	-87.304722
180970078	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
180970078	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
181570008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Tippecanoe	40.431639	-86.8525
181630012	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Vanderburgh	38.021667	-87.569444
220150008	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Bossier	32.534167	-93.749722
220190008	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Calcasieu	30.261667	-93.284167
220330009	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	East Baton Rouge	30.461111	-91.176944
220330013	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	East Baton Rouge	30.700278	-91.055833
220511001	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Jefferson	30.043333	-90.275
220570004	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Lafourche	29.763889	-90.765183
220630002	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Livingston	30.3125	-90.8125
220710012	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Orleans	29.994444	-90.102778
221210001	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	West Baton Rouge	30.501944	-91.209722
245100040	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MD	Baltimore City	39.298056	-76.604722
250030006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Berkshire	42.44	-73.255278
250051004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Bristol	41.6857	-71.1698
250092006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Essex	42.474444	-70.9725
250095005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Essex	42.762778	-71.105833
250130016	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Hampden	42.108889	-72.591389
250154002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Hampshire	42.298333	-72.334722
250213003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Norfolk	42.21222	-71.11472
250250042	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.329444	-71.082778
250250043	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.362778	-71.054167
250270023	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Worcester	42.265802	-71.794835
270031002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Anoka	45.13975	-93.207616
270052013	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Becker	46.851811	-95.846272
270177416	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MN	Carlton	46.705241	-92.523606
270353204	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Crow Wing	46.394159	-94.144405
270370470	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Dakota	44.740751	-93.237293
270530963	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Hennepin	44.955396	-93.25827
270530969	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Hennepin	44.902568	-93.238287
270750005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Lake	47.948622	-91.495574
270834210	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Lyon	44.457691	-95.836327
271095008	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Olmsted	43.996908	-92.450366
271230871	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Ramsey	44.961451	-93.035894
271377551	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	St Louis	46.766667	-92.133056
271453052	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Stearns	45.549839	-94.13345
271713201	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Wright	45.211038	-93.669012

280110001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Bolivar	33.746056	-90.723028
280470008	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Harrison	30.390139	-89.049722
280490018	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Hinds	32.296806	-90.188306
280810005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Lee	34.264917	-88.766222
300310013	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Gallatin	44.657778	-111.09083
300530018	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Lincoln	48.384167	-115.54806
300810007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Ravalli	46.245633	-114.15886
310550019	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	NE	Douglas	41.247222	-95.975556
350130016	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	32.003611	-106.59917
350130017	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	31.795833	-106.5575
350130021	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	31.796111	-106.58389
350130022	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	31.787778	-106.68278
350151005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Eddy	32.38	-104.26222
350250008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Lea	32.726656	-103.12292
350450018	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	San Juan	36.80973	-107.65158
350490020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Santa Fe	35.671111	-105.95361
350550005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Taos	36.383333	-105.58333
370210034	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Buncombe	35.609722	-82.350833
371190041	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.240278	-80.785556
371190042	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.151389	-80.866944
410010003	Correlated Radiance Research M903-Nephelometry	OR	Baker	44.787583	-117.84145
410010004	Correlated Radiance Research M903-Nephelometry	OR	Baker	44.78822	-117.8446
410030013	Correlated Radiance Research M903-Nephelometry	OR	Benton	44.588322	-123.27417
410050004	Correlated Radiance Research M903-Nephelometry	OR	Clackamas	45.259722	-122.5875
410050102	Correlated Radiance Research M903-Nephelometry	OR	Clackamas	45.288333	-121.79028
410090004	Correlated Radiance Research M903-Nephelometry	OR	Columbia	45.768056	-122.77194
410170120	Correlated Radiance Research M903-Nephelometry	OR	Deschutes	44.063904	-121.31258
410190002	Correlated Radiance Research M903-Nephelometry	OR	Douglas	43.22769	-123.3644
410190003	Correlated Radiance Research M903-Nephelometry	OR	Douglas	42.94892	-123.36295
410230001	Correlated Radiance Research M903-Nephelometry	OR	Grant	44.4172	-118.9547
410250002	Correlated Radiance Research M903-Nephelometry	OR	Harney	43.586389	-119.05111
410290019	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.623214	-122.8102
410290133	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.314078	-122.87924
410294001	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.426389	-122.85083
410330010	Correlated Radiance Research M903-Nephelometry	OR	Josephine	42.104278	-123.68108
410330011	Correlated Radiance Research M903-Nephelometry	OR	Josephine	42.289722	-123.2325
410330114	Correlated Radiance Research M903-Nephelometry	OR	Josephine	42.434139	-123.34849
410350004	Correlated Radiance Research M903-Nephelometry	OR	Klamath	42.188889	-121.7225
410351002	Correlated Radiance Research M903-Nephelometry	OR	Klamath	42.895814	-122.13602
410370001	Correlated Radiance Research M903-Nephelometry	OR	Lake	42.188889	-120.35194
410390060	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.026312	-123.08374
410391009	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.046696	-123.0177
410392013	Correlated Radiance Research M903-Nephelometry	OR	Lane	43.744352	-122.48052
410430009	Correlated Radiance Research M903-Nephelometry	OR	Linn	44.615648	-123.0916
410470041	Correlated Radiance Research M903-Nephelometry	OR	Marion	44.94314	-123.00591
410510080	Correlated Radiance Research M903-Nephelometry	OR	Multnomah	45.496667	-122.60222
410510246	Correlated Radiance Research M903-Nephelometry	OR	Multnomah	45.561301	-122.67878
410590121	Correlated Radiance Research M903-Nephelometry	OR	Umatilla	45.651944	-118.81861
410610118	Correlated Radiance Research M903-Nephelometry	OR	Union	45.43744	-117.89779
410610119	Correlated Radiance Research M903-Nephelometry	OR	Union	45.338972	-117.9048
410630001	Correlated Radiance Research M903-Nephelometry	OR	Wallowa	45.426306	-117.29667
410650007	Correlated Radiance Research M903-Nephelometry	OR	Wasco	45.602399	-121.20335

410670004	Correlated Radiance Research M903-Nephelometry	OR	Washington	45.52853	-122.97244
410670111	Correlated Radiance Research M903-Nephelometry	OR	Washington	45.4702	-122.81585
450450008	PM2.5 SCC-FDMS-Gravimetric	SC	Greenville	34.838814	-82.402914
470370023	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Davidson	36.176326	-86.738902
471570038	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Shelby	35.184167	-89.930278
480290053	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Bexar	29.58773	-98.312479
480290055	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Bexar	29.407222	-98.431111
480290059	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Bexar	29.275387	-98.311666
480610006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Cameron	25.892508	-97.493824
481130069	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Dallas	32.819952	-96.860082
481133003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Dallas	32.769379	-96.546299
481210034	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Denton	33.191667	-97.193333
481350003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ector	31.826578	-102.34198
481351014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ector	31.870233	-102.33477
481390015	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ellis	32.436944	-97.025
481390017	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ellis	32.473611	-97.0425
481410037	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.768274	-106.5012
481410044	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.765673	-106.45523
481410053	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.758516	-106.50105
481410055	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.746752	-106.40281
481490001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Fayette	29.9625	-96.745278
481670014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Galveston	29.263319	-94.856568
482010024	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.901111	-95.326944
482010026	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.8025	-95.12555
482011034	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.767993	-95.220576
482011035	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.733713	-95.257591
482011039	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.670046	-95.128485
482011042	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	30.065278	-95.1875
482011050	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.583031	-95.015535
482030002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harrison	32.669003	-94.167449
482150043	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Hidalgo	26.226238	-98.291064
482430004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Jeff Davis	30.66938	-104.02463
482450020	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	30.066944	-94.077222
482450021	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	29.922778	-93.908889
482450022	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	29.863951	-94.317757
482570005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Kaufman	32.569167	-96.315833
482730314	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Kleberg	27.42694	-97.29861
483030001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Lubbock	33.590851	-101.84759
483230004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Maverick	28.701944	-100.45083
483390078	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Montgomery	30.3503	-95.425135
483550025	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Nueces	27.7653	-97.4342
483611100	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Orange	30.194167	-93.866944
483750005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Potter	35.209963	-101.83192
483750320	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Potter	35.201588	-101.90924
484391006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Tarrant	32.758889	-97.342222
484393008	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Tarrant	32.810833	-97.336944
484393009	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Tarrant	32.984167	-97.063611
484393011	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Tarrant	32.65639	-97.08889
484530014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Travis	30.354426	-97.760257
484530020	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Travis	30.483159	-97.872266
484790313	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Webb	27.5994	-99.5333
484850315	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Wichita	33.863333	-98.5725

484850315	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TX	Wichita	33.863333	-98.5725
530010003	Correlated Radiance Research M903-Nephelometry	WA	Adams	47.128611	-118.38194
530050002	Correlated Radiance Research M903-Nephelometry	WA	Benton	46.218611	-119.20556
530050002	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Benton	46.218611	-119.20556
530050002	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Benton	46.218611	-119.20556
530070006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Chelan	47.412222	-120.31833
530070006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Chelan	47.412222	-120.31833
530070010	Correlated Radiance Research M903-Nephelometry	WA	Chelan	47.598863	-120.6647
530090009	Correlated Radiance Research M903-Nephelometry	WA	Clallam	48.116389	-123.46444
530110013	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Clark	45.648333	-122.58694
530110013	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Clark	45.648333	-122.58694
530130001	Correlated Radiance Research M903-Nephelometry	WA	Columbia	46.531521	-118.21667
530150015	Correlated Radiance Research M903-Nephelometry	WA	Cowlitz	46.139444	-122.96194
530210002	Correlated Radiance Research M903-Nephelometry	WA	Franklin	46.575597	-119.00071
530251002	Correlated Radiance Research M903-Nephelometry	WA	Grant	47.130336	-119.2726
530270011	Correlated Radiance Research M903-Nephelometry	WA	Grays Harbor	47.343709	-124.28692
530272002	Correlated Radiance Research M903-Nephelometry	WA	Grays Harbor	46.972696	-123.83047
530310003	Correlated Radiance Research M903-Nephelometry	WA	Jefferson	48.129444	-122.77944
530330017	Correlated Radiance Research M903-Nephelometry	WA	King	47.489722	-121.77333
530330017	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.489722	-121.77333
530330017	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.489722	-121.77333
530330023	Correlated Radiance Research M903-Nephelometry	WA	King	47.141111	-121.93306
530330024	Correlated Radiance Research M903-Nephelometry	WA	King	47.755	-122.2806
530330024	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.755	-122.2806
530330024	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.755	-122.2806
530330027	Correlated Radiance Research M903-Nephelometry	WA	King	47.795	-122.12944
530330037	Correlated Radiance Research M903-Nephelometry	WA	King	47.613056	-122.20167
530330048	Correlated Radiance Research M903-Nephelometry	WA	King	47.6153	-122.32972
530330057	Correlated Radiance Research M903-Nephelometry	WA	King	47.563333	-122.3406
530330057	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.563333	-122.3406
530330057	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.563333	-122.3406
530330080	Correlated Radiance Research M903-Nephelometry	WA	King	47.570273	-122.3086
530330080	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.570273	-122.3086
530330080	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.570273	-122.3086
530331011	Correlated Radiance Research M903-Nephelometry	WA	King	47.5297	-122.3203
530332004	Correlated Radiance Research M903-Nephelometry	WA	King	47.386111	-122.2319
530332004	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.386111	-122.2319
530332004	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.386111	-122.2319
530370002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Kittitas	46.996111	-120.54528
530370002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Kittitas	46.996111	-120.54528
530450004	Correlated Radiance Research M903-Nephelometry	WA	Mason	47.227833	-123.11456
530470009	Correlated Radiance Research M903-Nephelometry	WA	Okanogan	48.364267	-120.12112
530470010	Correlated Radiance Research M903-Nephelometry	WA	Okanogan	48.477198	-120.19056
530530029	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.1864	-122.4517
530530029	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Pierce	47.1864	-122.4517
530530029	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Pierce	47.1864	-122.4517
530530031	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.2656	-122.3858
530530031	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Pierce	47.2656	-122.3858
530530031	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Pierce	47.2656	-122.3858
530531018	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.140556	-122.3003
530531020	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.211	-122.357
530570015	Correlated Radiance Research M903-Nephelometry	WA	Skagit	48.410311	-122.33785

530610005	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	47.8064	-122.3167
530610005	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Snohomish	47.8064	-122.3167
530610005	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Snohomish	47.8064	-122.3167
530611007	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	48.055556	-122.1758
530611007	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Snohomish	48.055556	-122.1758
530611007	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Snohomish	48.055556	-122.1758
530630016	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Spokane	47.660833	-117.35722
530630016	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Spokane	47.660833	-117.35722
530630047	Correlated Radiance Research M903-Nephelometry	WA	Spokane	47.701111	-117.425
530650004	Correlated Radiance Research M903-Nephelometry	WA	Stevens	48.544722	-117.90361
530670013	Correlated Radiance Research M903-Nephelometry	WA	Thurston	47.028889	-122.82083
530670013	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Thurston	47.028889	-122.82083
530670013	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Thurston	47.028889	-122.82083
530710005	Correlated Radiance Research M903-Nephelometry	WA	Walla Walla	46.060833	-118.34833
530730015	Correlated Radiance Research M903-Nephelometry	WA	Whatcom	48.762778	-122.44028
530750003	Correlated Radiance Research M903-Nephelometry	WA	Whitman	46.724722	-117.17944
530750005	Correlated Radiance Research M903-Nephelometry	WA	Whitman	46.81728	-117.87403
530750006	Correlated Radiance Research M903-Nephelometry	WA	Whitman	47.233063	-117.36908
530770009	Correlated Radiance Research M903-Nephelometry	WA	Yakima	46.59678	-120.51222

Table B5. Atmospheric SC Geographic Information for 2005

AQS_ID	SC_Method	State	County	Latitude	Longitude
010730023	PM2.5 SCC-FDMS-Gravimetric	AL	Jefferson	33.553056	-86.815
040130019	PM2.5 SCC-FDMS-Gravimetric	AZ	Maricopa	33.48385	-112.14257
040139997	PM2.5 VSCC-FDMS-Gravimetric	AZ	Maricopa	33.503643	-112.095
060271023	PM2.5 VSCC-FDMS-Gravimetric	CA	Inyo	37.362194	-118.41654
080131001	PM2.5 SCC-FDMS-Gravimetric	CO	Boulder	40.01297	-105.26719
080310002	PM2.5 SCC-FDMS-Gravimetric	CO	Denver	39.751185	-104.98762
080310013	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Denver	39.73858	-104.93996
080310013	PM2.5 SCC-FDMS-Gravimetric	CO	Denver	39.73858	-104.93996
080350004	PM2.5 SCC-FDMS-Gravimetric	CO	Douglas	39.53448	-105.07035
191130037	PM2.5 SCC-FDMS-Gravimetric	IA	Linn	42.008333	-91.678611
202090021	PM2.5 SCC-FDMS-Gravimetric	KS	Wyandotte	39.1175	-94.635556
260050003	PM2.5 SCC-FDMS-Gravimetric	MI	Allegan	42.767778	-86.148611
260170014	PM2.5 SCC-FDMS-Gravimetric	MI	Bay	43.571389	-83.890833
260490021	PM2.5 SCC-FDMS-Gravimetric	MI	Genesee	43.04722	-83.670278
260650012	PM2.5 SCC-FDMS-Gravimetric	MI	Ingham	42.738611	-84.534722
260770008	PM2.5 SCC-FDMS-Gravimetric	MI	Kalamazoo	42.278056	-85.541944
260810020	PM2.5 SCC-FDMS-Gravimetric	MI	Kent	42.984167	-85.671389
261130001	PM2.5 SCC-FDMS-Gravimetric	MI	Missaukee	44.310556	-84.891944
261450018	PM2.5 SCC-FDMS-Gravimetric	MI	Saginaw	43.508333	-83.968056
261470005	PM2.5 SCC-FDMS-Gravimetric	MI	St Clair	42.953333	-82.456389
261610008	PM2.5 SCC-FDMS-Gravimetric	MI	Washtenaw	42.240556	-83.599722
261630001	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.228611	-83.208333
261630033	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.306666	-83.148889
261630039	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.323333	-83.068611
290390001	PM2.5 SCC-FDMS-Gravimetric	MO	Cedar	37.695833	-94.0375
290470005	PM2.5 SCC-FDMS-Gravimetric	MO	Clay	39.303056	-94.376389
290990012	PM2.5 SCC-FDMS-Gravimetric	MO	Jefferson	38.437778	-90.361389
291860005	PM2.5 SCC-FDMS-Gravimetric	MO	Ste Genevieve	37.896944	-90.422222
291893001	PM2.5 SCC-FDMS-Gravimetric	MO	St Louis	38.641389	-90.345833
330090010	PM2.5 VSCC-FDMS-Gravimetric	NH	Grafton	43.62957	-72.226083
330110020	PM2.5 VSCC-FDMS-Gravimetric	NH	Hillsborough	43.000556	-71.468056
330150014	PM2.5 VSCC-FDMS-Gravimetric	NH	Rockingham	43.075278	-70.748056
371190041	PM2.5 SCC-FDMS-Gravimetric	NC	Mecklenburg	35.240278	-80.785556
390250022	PM2.5 SCC-FDMS-Gravimetric	OH	Clermont	39.082319	-84.144193
390490029	PM2.5 SCC-FDMS-Gravimetric	OH	Franklin	40.086667	-82.815556
390810017	PM2.5 SCC-FDMS-Gravimetric	OH	Jefferson	40.366104	-80.615002
391030003	PM2.5 SCC-FDMS-Gravimetric	OH	Medina	41.102778	-81.911667
391530017	PM2.5 SCC-FDMS-Gravimetric	OH	Summit	41.063333	-81.468611
400190297	PM2.5 VSCC-FDMS-Gravimetric	OK	Carter	34.257125	-97.474341
400270049	PM2.5 VSCC-FDMS-Gravimetric	OK	Cleveland	35.320105	-97.484099
400310647	PM2.5 VSCC-FDMS-Gravimetric	OK	Comanche	34.626418	-98.383173
400710602	PM2.5 VSCC-FDMS-Gravimetric	OK	Kay	36.705328	-97.087656
401091037	PM2.5 VSCC-FDMS-Gravimetric	OK	Oklahoma	35.614131	-97.475083
401210415	PM2.5 VSCC-FDMS-Gravimetric	OK	Pittsburg	34.90227	-95.784375
401430174	PM2.5 VSCC-FDMS-Gravimetric	OK	Tulsa	35.953708	-96.004975
401431127	PM2.5 VSCC-FDMS-Gravimetric	OK	Tulsa	36.204902	-95.976537
420070014	PM2.5 SCC-FDMS-Gravimetric	PA	Beaver	40.747778	-80.316667
420110009	PM2.5 SCC-FDMS-Gravimetric	PA	Berks	40.320278	-75.926667
420710007	PM2.5 SCC-FDMS-Gravimetric	PA	Lancaster	40.046667	-76.283333
420910013	PM2.5 SCC-FDMS-Gravimetric	PA	Montgomery	40.112222	-75.309167

421330008	PM2.5 SCC-FDMS-Gravimetric	PA	York	39.965278	-76.699444
450450008	PM2.5 SCC-FDMS-Gravimetric	SC	Greenville	34.838814	-82.402914
500030004	PM2.5 VSCC-FDMS-Gravimetric	VT	Bennington	42.88759	-73.24984
500070014	PM2.5 VSCC-FDMS-Gravimetric	VT	Chittenden	44.4762	-73.2106
500210002	PM2.5 VSCC-FDMS-Gravimetric	VT	Rutland	43.608056	-72.982778
550090005	PM2.5 SCC-FDMS-Gravimetric	WI	Brown	44.516667	-87.993889
550270007	PM2.5 SCC-FDMS-Gravimetric	WI	Dodge	43.435	-88.527778
550590019	PM2.5 SCC-FDMS-Gravimetric	WI	Kenosha	42.504722	-87.8093
550710007	PM2.5 SCC-FDMS-Gravimetric	WI	Manitowoc	44.138611	-87.616111
550790026	PM2.5 SCC-FDMS-Gravimetric	WI	Milwaukee	43.061111	-87.9125
550790059	PM2.5 SCC-FDMS-Gravimetric	WI	Milwaukee	42.955	-87.934167
550890009	PM2.5 SCC-FDMS-Gravimetric	WI	Ozaukee	43.498056	-87.81
551091002	PM2.5 SCC-FDMS-Gravimetric	WI	St Croix	45.124444	-92.6625
551110007	PM2.5 SCC-FDMS-Gravimetric	WI	Sauk	43.435556	-89.680278
551198001	PM2.5 SCC-FDMS-Gravimetric	WI	Taylor	45.203889	-90.6
551330027	PM2.5 SCC-FDMS-Gravimetric	WI	Waukesha	43.020278	-88.215

Table B6. Raw SC Geographic Information for 2005

AQS_ID	SC_Method	State	County	Latitude	Longitude
010890014	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	AL	Madison	34.68767	-86.58637
010970003	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	AL	Mobile	30.769722	-88.0875
011190002	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	AL	Sumter	32.363889	-88.201944
040191030	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	31.87952	-110.99644
040191032	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	32.17295	-110.98005
040191034	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	32.38082	-111.12716
040191113	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	32.2518	-110.9653
040230004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Santa Cruz	31.337204	-110.93672
050350005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Crittenden	35.196667	-90.191111
051191005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Pulaski	34.676268	-92.337164
051390006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Union	33.215	-92.668889
051430004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Washington	36.045751	-94.168978
060070002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Butte	39.7575	-121.84222
060074001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Butte	39.321667	-121.66861
060111002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Colusa	39.203056	-122.01667
060190008	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Fresno	36.781389	-119.77222
060210002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Glenn	39.517778	-122.19028
060250005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Imperial	32.676111	-115.48333
060250006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Imperial	32.677778	-115.38972
060290014	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Kern	35.356111	-119.04028
060410003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Marin	38.126944	-122.91389
060431001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Mariposa	37.745833	-119.60278
060610006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Placer	38.745833	-121.26528
060631009	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Plumas	39.808333	-120.47167
060670006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.614167	-121.36694
060670010	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.558333	-121.49194
060670011	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.301944	-121.42222
060670012	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.683889	-121.16278
060771002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Joaquin	37.950833	-121.2675
060990005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Stanislaus	37.641667	-120.99361
061010003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sutter	39.138889	-121.6175
061072002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Tulare	36.332222	-119.29028
061110010	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	33.2569	-119.4869
061112002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.2775	-118.68472
061113001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.255	-119.1425
061130004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Yolo	38.533333	-121.775
080010006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Adams	39.825739	-104.93699
080010006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Adams	39.825739	-104.93699
080310013	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Denver	39.73858	-104.93996
081230006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Weld	40.414722	-104.70611
081230006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Weld	40.414722	-104.70611
090010010	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Fairfield	41.170833	-73.194722
090032006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Hartford	41.7425	-72.634444
090050005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Litchfield	41.821389	-73.297222
090090027	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.301111	-72.902778
090092123	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.550556	-73.043611
100010002	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	Kent	38.984722	-75.555556
100032004	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	New Castle	39.739444	-75.558056
120111002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Broward	26.082778	-80.237778

120210004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Collier	26.27	-81.711
120310098	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Duval	30.135556	-81.634167
120310100	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Duval	30.261	-81.454
120570030	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.931944	-82.509722
120571065	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.892222	-82.538611
120573002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.96565	-82.2304
120574004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.9925	-82.125833
120690003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Lake	29.014	-81.64119
120730012	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Leon	30.439722	-84.348333
120731005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Leon	30.266944	-84.428333
120861016	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Miami-Dade	25.794167	-80.206111
120866001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Miami-Dade	25.471389	-80.483333
120952002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Orange	28.599444	-81.363056
120991004	Andersen BAM w/PM2.5 WINS-Beta Attenuation	FL	Palm Beach	26.693056	-80.099444
121030018	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Pinellas	27.785556	-82.74
121111002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	St Lucie	27.448889	-80.40833
160050015	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Bannock	42.876725	-112.46035
160170005	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Bonner	48.2675	-116.57222
160170005	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Bonner	48.2675	-116.57222
160190013	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Bonneville	43.518267	-112.02071
160270007	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.705583	-116.6232
160270008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Canyon	43.787147	-116.95958
160270008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.787147	-116.95958
160450001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Gem	43.856442	-116.51546
160450001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Gem	43.856442	-116.51546
160490003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Idaho	46.2094	-116.0275
160590004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Lemhi	45.170556	-113.89222
160690013	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Nez Perce	46.3972	-116.8062
160690014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Nez Perce	46.335	-116.5359
170310001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.672745	-87.732457
170310022	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.689195	-87.539318
170310057	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.914733	-87.722725
170310076	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.751369	-87.713745
170314007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	42.060278	-87.863333
170314101	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	42.053333	-88.108056
170316006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.874944	-87.825876
170434002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Du Page	41.771195	-88.152502
170650002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Hamilton	38.083942	-88.624942
170990007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	La Salle	41.293125	-89.049242
171110001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Mc Henry	42.221421	-88.2421
171150013	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Macon	39.866944	-88.925556
171430037	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Peoria	40.698886	-89.584741
171630010	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	St Clair	38.612222	-90.160278
180431004	PM2.5 SCC-FDMS-Gravimetric	IN	Floyd	38.308056	-85.834167
180892004	PM2.5 SCC-FDMS-Gravimetric	IN	Lake	41.585278	-87.474444
180970078	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
180970078	PM2.5 SCC-FDMS-Gravimetric	IN	Marion	39.811097	-86.114469
181270024	PM2.5 SCC-FDMS-Gravimetric	IN	Porter	41.6175	-87.199167
181411008	PM2.5 SCC-FDMS-Gravimetric	IN	St Joseph	41.693611	-86.236667
181670018	PM2.5 SCC-FDMS-Gravimetric	IN	Vigo	39.486111	-87.401389
190450021	PM2.5 VSCC-FDMS-Gravimetric	IA	Clinton	41.874972	-90.177444
191370002	PM2.5 VSCC-FDMS-Gravimetric	IA	Montgomery	40.971211	-95.043868

191471002	PM2.5 VSCC-FDMS-Gravimetric	IA	Palo Alto	43.123333	-94.693333
191530030	PM2.5 SCC-FDMS-Gravimetric	IA	Polk	41.603132	-93.643234
191630015	PM2.5 VSCC-FDMS-Gravimetric	IA	Scott	41.53	-90.5875
191630019	PM2.5 VSCC-FDMS-Gravimetric	IA	Scott	41.517778	-90.618611
191770006	PM2.5 VSCC-FDMS-Gravimetric	IA	Van Buren	40.695078	-92.006318
201070002	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	KS	Linn	38.135833	-94.731944
201950001	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	KS	Trego	38.770278	-99.763611
211110027	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.137222	-85.578333
211110043	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.233222	-85.825278
211110048	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.240556	-85.731667
211110051	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.060833	-85.896111
230010011	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Androscoggin	44.089444	-70.215
230050027	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Cumberland	43.661944	-70.265833
230090103	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Hancock	44.37705	-68.2609
230190002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Penobscot	44.798849	-68.769745
240230002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Garrett	39.705916	-79.012028
240330030	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Prince Georges	39.055277	-76.878333
240430009	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Washington	39.565556	-77.721944
245100040	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Baltimore City	39.298056	-76.604722
261530001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Schoolcraft	46.28888	-85.95027
261630038	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.335	-83.1097
261630039	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.323333	-83.068611
295100085	PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 30 deg C	MO	St Louis City	38.6563	-90.1981
320030020	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NV	Clark	36.245278	-115.09222
320030020	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.245278	-115.09222
320030073	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.173056	-115.33167
320030298	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NV	Clark	36.052222	-115.05694
320030298	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.052222	-115.05694
320030539	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NV	Clark	36.144444	-115.08556
320030539	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.144444	-115.08556
320030561	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.163994	-115.11393
320030601	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NV	Clark	35.978889	-114.84417
320030601	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	35.978889	-114.84417
320032002	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.191111	-115.12222
330074002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NH	Coos	44.290556	-71.225
330090010	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NH	Grafton	43.62957	-72.226083
330110020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NH	Hillsborough	43.000556	-71.468056
330115001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NH	Hillsborough	42.861901	-71.878613
340030004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Bergen	40.85435	-73.96825
340070003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Camden	39.92304	-75.09762
340230006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Middlesex	40.47279	-74.42251
340390004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Union	40.64144	-74.20836
350010019	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.10728	-106.56359
350010027	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.1539	-106.69715
350010029	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.01708	-106.65735
350011013	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.19324	-106.61382
350439004	PM2.5 VSCC-FDMS-Gravimetric	NM	Sandoval	35.615278	-106.72444
360010005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Albany	42.6424	-73.75453
360050110	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81616	-73.90207
360050112	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81564	-73.8851
360050113	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.80838	-73.92604
360290005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.87684	-78.80988

360310003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Essex	44.39309	-73.85892
360470052	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.64154	-74.01835
360470118	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.69457	-73.92778
360470121	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.68577	-73.99243
360551007	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Monroe	43.146198	-77.54813
360590005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Nassau	40.7432	-73.58543
360610062	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72052	-74.00409
360610115	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.8489	-73.93068
360610117	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72333	-73.98231
360610119	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.81148	-73.95316
360610125	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.71163	-74.00514
360632008	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Niagara	43.08216	-79.00099
360632008	PM2.5 SCC-FDMS-Gravimetric	NY	Niagara	43.08216	-79.00099
360652001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Oneida	43.0994	-75.22519
360710002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Orange	41.49947	-74.00973
360810120	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.72695	-73.89314
360810124	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.7362	-73.82317
360810124	PM2.5 SCC-FDMS-Gravimetric	NY	Queens	40.7362	-73.82317
360850111	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Richmond	40.57997	-74.19872
360850114	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Richmond	40.63136	-74.15717
361030009	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	NY	Suffolk	40.8275	-73.05694
361030010	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	NY	Suffolk	40.82686	-73.05734
361192004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Westchester	41.052	-73.76398
370210034	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Buncombe	35.609722	-82.350833
370350004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Catawba	35.728889	-81.365556
370510009	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Cumberland	35.041416	-78.953112
370570002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Davidson	35.814444	-80.2625
370570003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Davidson	35.77881	-80.30236
370670022	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.110556	-80.226667
370670030	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.026	-80.342
370810013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Guilford	36.109167	-79.801111
371110004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mc Dowell	35.687404	-81.993789
371170001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Martin	35.81069	-76.89782
371190041	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.240278	-80.785556
371190042	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.151389	-80.866944
371290002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	New Hanover	34.364167	-77.838611
371730002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Swain	35.435509	-83.443697
371830014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Wake	35.856111	-78.574167
380070002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Billings	46.8943	-103.37853
380070002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ND	Billings	46.8943	-103.37853
380130002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Burke	48.9904	-102.7815
380130004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Burke	48.64193	-102.4018
380150003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Burleigh	46.825425	-100.76821
380171004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Cass	46.933754	-96.85535
380250003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Dunn	47.3132	-102.5273
380530002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	McKenzie	47.5812	-103.2995
380570004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Mercer	47.298611	-101.76694
380650002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Oliver	47.185833	-101.42806
390171004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	OH	Butler	39.53	-84.3925
390230005	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Clark	39.928889	-83.809722
390490028	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Franklin	39.914167	-82.957222
390570005	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Greene	39.808056	-83.886944

390610040	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Hamilton	39.128611	-84.504167
390933002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Lorain	41.463056	-82.114444
390950024	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Lucas	41.644167	-83.546667
390990014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Mahoning	41.095868	-80.658426
391130031	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Montgomery	39.759444	-84.144444
391130032	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Montgomery	39.760278	-84.187778
391351001	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Preble	39.835556	-84.720833
391510020	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Stark	40.800556	-81.373333
391550007	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Trumbull	41.214167	-80.7875
400979014	PM2.5 SCC-FDMS-Gravimetric	OK	Mayes	36.2284	-95.25
401159005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Ottawa	36.9858	-94.8492
420010001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Adams	39.92	-77.31
420030008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.465556	-79.961111
420030064	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.323611	-79.868333
420050001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Armstrong	40.814167	-79.565
420210011	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Cambria	40.309722	-78.915
420430401	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Dauphin	40.245	-76.844722
420950025	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Northampton	40.628056	-75.341111
440030002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Kent	41.6156	-71.7199
440030012	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Kent	41.737969	-71.41441
440030014	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Kent	41.70549	-71.44176
440030015	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Kent	41.715811	-71.43755
440070022	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Providence	41.807949	-71.415
440090007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Washington	41.491667	-71.427778
450070003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Anderson	34.776927	-82.490386
450190046	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Charleston	32.941023	-79.657187
450190046	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	SC	Charleston	32.941023	-79.657187
450250001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Chesterfield	34.615367	-80.198787
450290002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Colleton	33.009562	-80.965042
450370001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Edgefield	33.741693	-81.853633
450450009	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.901046	-82.31307
450450009	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.901046	-82.31307
450450010	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.869374	-82.422593
450450013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.854799	-82.380631
450450014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.843991	-82.401159
450730001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Oconee	34.805261	-83.2377
450770002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Pickens	34.655221	-82.838653
450790018	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Richland	33.984002	-81.040235
460330132	Andersen BAM w/PM2.5 SCC-Beta Attenuation	SD	Custer	43.5578	-103.4839
460710001	Andersen BAM w/PM2.5 SCC-Beta Attenuation	SD	Jackson	43.74561	-101.94122
461030020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	SD	Pennington	44.087397	-103.27378
470090011	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Blount	35.768333	-83.942222
470090101	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Blount	35.631389	-83.943611
470450004	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Dyer	36.052778	-89.381944
470654002	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Hamilton	35.050928	-85.292975
470931013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Knox	35.98055	-83.93277
470990002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Lawrence	35.116111	-87.47
470990002	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Lawrence	35.116111	-87.47
471071002	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	McMinn	35.451111	-84.599167
471130006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Madison	35.653651	-88.809084
471130006	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Madison	35.653651	-88.809084
471210104	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Meigs	35.288889	-84.946111

471251010	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Montgomery	36.625	-87.169167
471450004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Roane	35.9386	-84.5438
471450004	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Roane	35.9386	-84.5438
471572005	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Shelby	35.188	-89.642
471631007	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Sullivan	36.540654	-82.521667
471650007	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Sumner	36.297778	-86.652778
471650007	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Sumner	36.297778	-86.652778
490050004	PM2.5 SCC-FDMS-Gravimetric	UT	Cache	41.731111	-111.8375
490353006	PM2.5 SCC-FDMS-Gravimetric	UT	Salt Lake	40.736389	-111.87222
490570002	PM2.5 SCC-FDMS-Gravimetric	UT	Weber	41.206389	-111.97472
510591005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Fairfax	38.837517	-77.163231
510870014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Henrico	37.558333	-77.400278
511130003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Madison	38.521944	-78.436111
516500004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Hampton City	37.003333	-76.399167
517700015	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Roanoke City	37.297178	-79.95557
560391012	Andersen BAM w/PM2.5 SCC-Beta Attenuation	WY	Teton	44.457778	-110.82917
720170003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PR	Barceloneta	18.436111	-66.580556
720250003	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 50 deg C	PR	Caguas	18.232499	-66.037023
720330008	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 50 deg C	PR	Catano	18.440028	-66.127076
720330009	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 50 deg C	PR	Catano	18.449964	-66.149043
800020004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MX	Baja California*	32.343333	-117.05472
800020012	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MX	Baja California**	32.629167	-115.44694
CC0110002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 40 deg C	SK	Saskatchewan***	49.135138	-102.98486

(N. B.: State abbreviations PR, MX, and SK refer to Puerto Rico, Mexico, and Saskatchewan, respectively.)
***Approximately 21 km south of the California border near Rosarita, Baja California, Mexico.**
****Approximately 3 km south of the California border near Mexicali, Baja California, Mexico.**
*****Approximately 14 km north of the North Dakota border near Estevan, Saskatchewan, Canada.**

Table B7. Acceptable SC Geographic Information for 2006

AQSID	SC_Method	State	County	Latitude	Longitude
010730023	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.553056	-86.815
010730023	PM2.5 SCC-FDMS-Gravimetric	AL	Jefferson	33.553056	-86.815
010731005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.331111	-87.003611
010731009	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.459722	-87.305556
010731010	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.545278	-86.549167
010732003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.499722	-86.924167
010732006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.386389	-86.816667
010735002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.704722	-86.669167
010735003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.801667	-86.9425
060010007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Alameda	37.6875	-121.7842
060750005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Francisco	37.766	-122.3991
060811001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Mateo	37.4829	-122.2034
060850005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Santa Clara	37.3485	-121.895
060950004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Solano	38.1027	-122.2382
110010043	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	DC	District Of Columbia	38.918889	-77.0125
120330004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Escambia	30.525	-87.204167
130210012	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Bibb	32.805244	-83.543628
130511002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Chatham	32.090278	-81.130556
130590002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Clarke	33.917925	-83.344512
130770002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Coweta	33.403835	-84.746028
130890002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	De Kalb	33.688007	-84.290325
131210055	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Fulton	33.720428	-84.357449
131350002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Gwinnett	33.963074	-84.069193
131510002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Henry	33.433426	-84.161797
132150008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Muscogee	32.521099	-84.944695
132230003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Paulding	33.92855	-85.04548
132450091	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Richmond	33.433883	-82.022414
132970001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Walton	33.625129	-83.68176
160010011	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Ada	43.636111	-116.27028
160010011	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Ada	43.636111	-116.27028
160050015	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Bannock	42.876725	-112.46035
160050015	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Bannock	42.876725	-112.46035
160090011	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Benewah	47.338702	-116.88461
160150001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Boise	43.823017	-115.83856
160150002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Boise	44.104498	-115.97239
160190013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Bonneville	43.518267	-112.02071
160190013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Bonneville	43.518267	-112.02071
160270004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Canyon	43.562401	-116.56323
160270004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.562401	-116.56323
160490002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Idaho	45.931389	-116.11528
160490002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Idaho	45.931389	-116.11528
160550006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Kootenai	47.682315	-116.76553
160550006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Kootenai	47.682315	-116.76553
160550014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Kootenai	47.721597	-116.92615
160550014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Kootenai	47.721597	-116.92615
160570005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Latah	46.721932	-116.95918
160570005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Latah	46.721932	-116.95918
160590004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Lemhi	45.170556	-113.89222
160590004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Lemhi	45.170556	-113.89222

160690012	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Nez Perce	46.404722	-116.96889
160690012	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Nez Perce	46.404722	-116.96889
160770011	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Power	42.9125	-112.53556
160790017	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Shoshone	47.536389	-116.23667
160790017	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Shoshone	47.536389	-116.23667
160830010	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Twin Falls	42.564097	-114.4462
160830010	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Twin Falls	42.564097	-114.4462
160850002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Valley	44.890197	-116.1065
160850002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Valley	44.890197	-116.1065
180030004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Allen	41.094722	-85.101944
180890022	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Lake	41.606667	-87.304722
180970078	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
180970078	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
181570008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Tippecanoe	40.431639	-86.8525
181630012	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Vanderburgh	38.021667	-87.569444
220150008	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Bossier	32.534167	-93.749722
220190008	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Calcasieu	30.261667	-93.284167
220330009	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	East Baton Rouge	30.461111	-91.176944
220330013	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	East Baton Rouge	30.700278	-91.055833
220511001	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Jefferson	30.043333	-90.275
220570004	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Lafourche	29.763889	-90.765183
220630002	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Livingston	30.3125	-90.8125
220710012	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Orleans	29.994444	-90.102778
221210001	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	West Baton Rouge	30.501944	-91.209722
230031100	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ME	Aroostook	46.696431	-68.033006
245100040	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MD	Baltimore City	39.298056	-76.604722
250030006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Berkshire	42.44	-73.255278
250051004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Bristol	41.6857	-71.1698
250092006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Essex	42.474444	-70.9725
250095005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Essex	42.762778	-71.105833
250130016	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Hampden	42.108889	-72.591389
250154002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Hampshire	42.298333	-72.334722
250213003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Norfolk	42.21222	-71.11472
250250042	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.329444	-71.082778
250250043	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.362778	-71.054167
250270023	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Worcester	42.265802	-71.794835
270031002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Anoka	45.13975	-93.207616
270052013	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Becker	46.851811	-95.846272
270177416	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MN	Carlton	46.705241	-92.523606
270317810	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Cook	47.972085	-89.69098
270353204	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Crow Wing	46.394159	-94.144405
270370470	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Dakota	44.740751	-93.237293
270530963	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Hennepin	44.955396	-93.25827
270530969	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Hennepin	44.902568	-93.238287
270750005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Lake	47.948622	-91.495574
270834210	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Lyon	44.457691	-95.836327
271095008	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Olmsted	43.996908	-92.450366
271230871	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Ramsey	44.961451	-93.035894
271377551	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	St Louis	46.766667	-92.133056
271453052	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Stearns	45.549839	-94.13345
271713201	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Wright	45.211038	-93.669012
280110001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Bolivar	33.746056	-90.723028

280470008	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Harrison	30.390139	-89.049722
280490010	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Hinds	32.385583	-90.140917
280490018	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Hinds	32.296806	-90.188306
280590006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Jackson	30.378194	-88.533944
280750003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Lauderdale	32.364389	-88.731444
280810005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Lee	34.264917	-88.766222
290210005	PM2.5 SCC-FDMS-Gravimetric	MO	Buchanan	39.741667	-94.858333
290390001	PM2.5 SCC-FDMS-Gravimetric	MO	Cedar	37.695833	-94.0375
290470005	PM2.5 SCC-FDMS-Gravimetric	MO	Clay	39.303056	-94.376389
290950034	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	MO	Jackson	39.104722	-94.570556
290990012	PM2.5 SCC-FDMS-Gravimetric	MO	Jefferson	38.437778	-90.361389
291860005	PM2.5 SCC-FDMS-Gravimetric	MO	Ste Genevieve	37.896944	-90.422222
291893001	PM2.5 SCC-FDMS-Gravimetric	MO	St Louis	38.641389	-90.345833
295100085	PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 30 deg C	MO	St Louis City	38.6563	-90.1981
300310013	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Gallatin	44.657778	-111.09083
300530018	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Lincoln	48.384167	-115.54806
300810007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Ravalli	46.245633	-114.15886
310550019	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	NE	Douglas	41.247222	-95.975556
340030004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Bergen	40.85435	-73.96825
340070003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Camden	39.92304	-75.09762
340110007	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Cumberland	39.42227	-75.0252
340171003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Hudson	40.72545	-74.05229
340190001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Hunterdon	40.51527	-74.80666
340230006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Middlesex	40.47279	-74.42251
340390004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Union	40.64144	-74.20836
340392003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Union	40.60607	-74.27498
340392003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NJ	Union	40.60607	-74.27498
350130016	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	32.003611	-106.59917
350130017	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	31.795833	-106.5575
350130021	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	31.796111	-106.58389
350130022	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	31.787778	-106.68278
350151005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Eddy	32.38	-104.26222
350250008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Lea	32.726656	-103.12292
350450018	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	San Juan	36.80973	-107.65158
350490020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Santa Fe	35.671111	-105.95361
350550005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Taos	36.383333	-105.58333
350610008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Valencia	34.8147	-106.7396
360010005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Albany	42.6424	-73.75453
360050110	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81616	-73.90207
360050112	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81564	-73.8851
360050113	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.80838	-73.92604
360290005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.87684	-78.80988
360310003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Essex	44.39309	-73.85892
360470052	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.64154	-74.01835
360470121	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.68577	-73.99243
360551007	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Monroe	43.146198	-77.54813
360590005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Nassau	40.7432	-73.58543
360610062	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72052	-74.00409
360610115	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.8489	-73.93068
360610117	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72333	-73.98231
360610119	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.81148	-73.95316
360610125	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.71163	-74.00514

360610134	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.7139	-73.9956
360632008	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Niagara	43.08216	-79.00099
360652001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Oneida	43.0994	-75.22519
360710002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Orange	41.49947	-74.00973
360810120	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.72695	-73.89314
360810124	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.7362	-73.82317
360850111	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Richmond	40.57997	-74.19872
360850114	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Richmond	40.63136	-74.15717
361010003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Steuben	42.09071	-77.21025
361192004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Westchester	41.052	-73.76398
370210034	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Buncombe	35.609722	-82.350833
370330001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Caswell	36.307033	-79.467417
370350004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Catawba	35.728889	-81.365556
370510009	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Cumberland	35.041416	-78.953112
370570002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Davidson	35.814444	-80.2625
370670030	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.026	-80.342
370710016	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Gaston	35.253056	-81.153333
370810013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Guilford	36.109167	-79.801111
371110004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mc Dowell	35.687404	-81.993789
371170001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Martin	35.81069	-76.89782
371190041	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.240278	-80.785556
371190042	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.151389	-80.866944
371290002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	New Hanover	34.364167	-77.838611
371590021	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Rowan	35.551868	-80.395039
371730002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Swain	35.435509	-83.443697
371830014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Wake	35.856111	-78.574167
371910005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Wayne	35.369214	-77.993893
410010004	Correlated Radiance Research M903-Nephelometry	OR	Baker	44.78822	-117.8446
410030013	Correlated Radiance Research M903-Nephelometry	OR	Benton	44.588322	-123.27417
410050004	Correlated Radiance Research M903-Nephelometry	OR	Clackamas	45.259722	-122.5875
410050102	Correlated Radiance Research M903-Nephelometry	OR	Clackamas	45.288333	-121.79028
410090004	Correlated Radiance Research M903-Nephelometry	OR	Columbia	45.768056	-122.77194
410170120	Correlated Radiance Research M903-Nephelometry	OR	Deschutes	44.063904	-121.31258
410190002	Correlated Radiance Research M903-Nephelometry	OR	Douglas	43.22769	-123.3644
410190003	Correlated Radiance Research M903-Nephelometry	OR	Douglas	42.94892	-123.36295
410230001	Correlated Radiance Research M903-Nephelometry	OR	Grant	44.4172	-118.9547
410250002	Correlated Radiance Research M903-Nephelometry	OR	Harney	43.586389	-119.05111
410290019	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.623214	-122.8102
410290133	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.314078	-122.87924
410294001	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.426389	-122.85083
410330010	Correlated Radiance Research M903-Nephelometry	OR	Josephine	42.104278	-123.68108
410330011	Correlated Radiance Research M903-Nephelometry	OR	Josephine	42.289722	-123.2325
410330114	Correlated Radiance Research M903-Nephelometry	OR	Josephine	42.434139	-123.34849
410350004	Correlated Radiance Research M903-Nephelometry	OR	Klamath	42.188889	-121.7225
410351002	Correlated Radiance Research M903-Nephelometry	OR	Klamath	42.895814	-122.13602
410370001	Correlated Radiance Research M903-Nephelometry	OR	Lake	42.188889	-120.35194
410390013	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.047896	-123.09205
410390060	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.026312	-123.08374
410391009	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.046696	-123.0177
410392013	Correlated Radiance Research M903-Nephelometry	OR	Lane	43.744352	-122.48052
410430009	Correlated Radiance Research M903-Nephelometry	OR	Linn	44.615648	-123.0916
410470041	Correlated Radiance Research M903-Nephelometry	OR	Marion	44.94314	-123.00591

410510080	Correlated Radiance Research M903-Nephelometry	OR	Multnomah	45.496667	-122.60222
410510246	Correlated Radiance Research M903-Nephelometry	OR	Multnomah	45.561301	-122.67878
410590121	Correlated Radiance Research M903-Nephelometry	OR	Umatilla	45.651944	-118.81861
410610119	Correlated Radiance Research M903-Nephelometry	OR	Union	45.338972	-117.9048
410630001	Correlated Radiance Research M903-Nephelometry	OR	Wallowa	45.426306	-117.29667
410650007	Correlated Radiance Research M903-Nephelometry	OR	Wasco	45.602399	-121.20335
410670004	Correlated Radiance Research M903-Nephelometry	OR	Washington	45.52853	-122.97244
410670111	Correlated Radiance Research M903-Nephelometry	OR	Washington	45.4702	-122.81585
420030008	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.465556	-79.961111
420030064	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.323611	-79.868333
421010004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Philadelphia	40.008889	-75.097778
421010024	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Philadelphia	40.076389	-75.011944
450450008	PM2.5 SCC-FDMS-Gravimetric	SC	Greenville	34.838814	-82.402914
470370023	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Davidson	36.176326	-86.738902
471570024	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Shelby	35.150833	-90.041389
471570038	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Shelby	35.184167	-89.930278
480290053	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Bexar	29.58773	-98.312479
480290055	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Bexar	29.407222	-98.431111
480290059	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Bexar	29.275387	-98.311666
480610006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Cameron	25.892508	-97.493824
481130069	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Dallas	32.819952	-96.860082
481210034	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Denton	33.191667	-97.193333
481350003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ector	31.826578	-102.34198
481351014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ector	31.870233	-102.33477
481390015	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ellis	32.436944	-97.025
481390016	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ellis	32.481944	-97.0275
481390017	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ellis	32.473611	-97.0425
481410037	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.768274	-106.5012
481410044	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.765673	-106.45523
481410053	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.758516	-106.50105
481490001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Fayette	29.9625	-96.745278
481670014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Galveston	29.263319	-94.856568
482010024	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.901111	-95.326944
482010026	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.8025	-95.12555
482010416	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.686389	-95.294722
482011034	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.767993	-95.220576
482011035	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.733713	-95.257591
482011039	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.670046	-95.128485
482011042	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	30.065278	-95.1875
482011050	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.583031	-95.015535
482030002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harrison	32.669003	-94.167449
482150043	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Hidalgo	26.226238	-98.291064
482430004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Jeff Davis	30.66938	-104.02463
482450020	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	30.066944	-94.077222
482450021	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	29.922778	-93.908889
482450022	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	29.863951	-94.317757
482570005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Kaufman	32.569167	-96.315833
482730314	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Kleberg	27.42694	-97.29861
483230004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Maverick	28.701944	-100.45083
483390078	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Montgomery	30.3503	-95.425135
483550025	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Nueces	27.7653	-97.4342
483611100	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Orange	30.194167	-93.866944

483750320	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Potter	35.201588	-101.90924
484391006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Tarrant	32.758889	-97.342222
484393011	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Tarrant	32.65639	-97.08889
484530014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Travis	30.354426	-97.760257
484530020	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Travis	30.483159	-97.872266
484790313	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Webb	27.5994	-99.5333
484850315	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Wichita	33.863333	-98.5725
490050004	PM2.5 SCC-FDMS-Gravimetric	UT	Cache	41.731111	-111.8375
490353006	PM2.5 SCC-FDMS-Gravimetric	UT	Salt Lake	40.736389	-111.87222
490494001	PM2.5 SCC-FDMS-Gravimetric	UT	Utah	40.341389	-111.71361
490570002	PM2.5 SCC-FDMS-Gravimetric	UT	Weber	41.206389	-111.97472
530010003	Correlated Radiance Research M903-Nephelometry	WA	Adams	47.128611	-118.38194
530050002	Correlated Radiance Research M903-Nephelometry	WA	Benton	46.218611	-119.20556
530050002	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Benton	46.218611	-119.20556
530070006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Chelan	47.412222	-120.31833
530070006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Chelan	47.412222	-120.31833
530070010	Correlated Radiance Research M903-Nephelometry	WA	Chelan	47.598863	-120.6647
530090009	Correlated Radiance Research M903-Nephelometry	WA	Clallam	48.116389	-123.46444
530090013	Correlated Radiance Research M903-Nephelometry	WA	Clallam	48.286719	-124.62034
530110013	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Clark	45.648333	-122.58694
530110013	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Clark	45.648333	-122.58694
530130001	Correlated Radiance Research M903-Nephelometry	WA	Columbia	46.531521	-118.21667
530150015	Correlated Radiance Research M903-Nephelometry	WA	Cowlitz	46.139444	-122.96194
530210002	Correlated Radiance Research M903-Nephelometry	WA	Franklin	46.575597	-119.00071
530251002	Correlated Radiance Research M903-Nephelometry	WA	Grant	47.130336	-119.2726
530270008	Correlated Radiance Research M903-Nephelometry	WA	Grays Harbor	46.8166	-123.1913
530270011	Correlated Radiance Research M903-Nephelometry	WA	Grays Harbor	47.343709	-124.28692
530272002	Correlated Radiance Research M903-Nephelometry	WA	Grays Harbor	46.972696	-123.83047
530310003	Correlated Radiance Research M903-Nephelometry	WA	Jefferson	48.129444	-122.77944
530330010	Correlated Radiance Research M903-Nephelometry	WA	King	47.551944	-122.04444
530330017	Correlated Radiance Research M903-Nephelometry	WA	King	47.489722	-121.77333
530330017	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.489722	-121.77333
530330017	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.489722	-121.77333
530330023	Correlated Radiance Research M903-Nephelometry	WA	King	47.141111	-121.93306
530330024	Correlated Radiance Research M903-Nephelometry	WA	King	47.755	-122.2806
530330024	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.755	-122.2806
530330024	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.755	-122.2806
530330037	Correlated Radiance Research M903-Nephelometry	WA	King	47.613056	-122.20167
530330048	Correlated Radiance Research M903-Nephelometry	WA	King	47.6153	-122.32972
530330057	Correlated Radiance Research M903-Nephelometry	WA	King	47.563333	-122.3406
530330057	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.563333	-122.3406
530330057	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.563333	-122.3406
530330080	Correlated Radiance Research M903-Nephelometry	WA	King	47.570273	-122.3086
530330080	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.570273	-122.3086
530331011	Correlated Radiance Research M903-Nephelometry	WA	King	47.5297	-122.3203
530332004	Correlated Radiance Research M903-Nephelometry	WA	King	47.386111	-122.2319
530332004	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.386111	-122.2319
530332004	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.386111	-122.2319
530370002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Kittitas	46.996111	-120.54528
530370002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Kittitas	46.996111	-120.54528
530450004	Correlated Radiance Research M903-Nephelometry	WA	Mason	47.227833	-123.11456
530450006	Correlated Radiance Research M903-Nephelometry	WA	Mason	47.3258	-123.1505

530470009	Correlated Radiance Research M903-Nephelometry	WA	Okanogan	48.364267	-120.12112
530470010	Correlated Radiance Research M903-Nephelometry	WA	Okanogan	48.477198	-120.19056
530510007	Correlated Radiance Research M903-Nephelometry	WA	Pend Oreille	48.3457	-117.2716
530530029	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.1864	-122.4517
530530029	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Pierce	47.1864	-122.4517
530530029	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Pierce	47.1864	-122.4517
530530031	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.2656	-122.3858
530531018	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.140556	-122.3003
530531020	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.211	-122.357
530531022	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.204986	-122.34462
530531022	Met-One BAM W/PM2.5 SCC-Beta Attenuation	WA	Pierce	47.204986	-122.34462
530570015	Correlated Radiance Research M903-Nephelometry	WA	Skagit	48.410311	-122.33785
530590001	Correlated Radiance Research M903-Nephelometry	WA	Skamania	45.57	-122.2
530590004	Correlated Radiance Research M903-Nephelometry	WA	Skamania	45.648384	-121.94311
530610005	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	47.8064	-122.3167
530610005	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Snohomish	47.8064	-122.3167
530610005	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Snohomish	47.8064	-122.3167
530610020	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	48.2469	-121.6031
530611007	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	48.055556	-122.1758
530611007	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Snohomish	48.055556	-122.1758
530611007	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Snohomish	48.055556	-122.1758
530630016	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Spokane	47.660833	-117.35722
530630016	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Spokane	47.660833	-117.35722
530630047	Correlated Radiance Research M903-Nephelometry	WA	Spokane	47.701111	-117.425
530650002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Stevens	47.8886	-117.9886
530650002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Stevens	47.8886	-117.9886
530650004	Correlated Radiance Research M903-Nephelometry	WA	Stevens	48.544722	-117.90361
530670013	Correlated Radiance Research M903-Nephelometry	WA	Thurston	47.028889	-122.82083
530670013	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Thurston	47.028889	-122.82083
530670013	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Thurston	47.028889	-122.82083
530710005	Correlated Radiance Research M903-Nephelometry	WA	Walla Walla	46.060833	-118.34833
530730015	Correlated Radiance Research M903-Nephelometry	WA	Whatcom	48.762778	-122.44028
530750003	Correlated Radiance Research M903-Nephelometry	WA	Whitman	46.724722	-117.17944
530750005	Correlated Radiance Research M903-Nephelometry	WA	Whitman	46.81728	-117.87403
530750006	Correlated Radiance Research M903-Nephelometry	WA	Whitman	47.233063	-117.36908
530770009	Correlated Radiance Research M903-Nephelometry	WA	Yakima	46.59678	-120.51222
530770015	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Yakima	46.385259	-120.31358
530770015	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Yakima	46.385259	-120.31358
540511002	PM2.5 SCC-FDMS-Gravimetric	WV	Marshall	39.91597	-80.734057
800020012	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MX	Baja California**	32.629167	-115.44694

(N. B.: The state abbreviations MX refers to Mexico.)
****Approximately 3 km south of the California border near Mexicali, Baja California, Mexico.**

Table B8. Atmospheric SC Geographic Information for 2006

AQS_ID	SC_Method	State	County	Latitude	Longitude
010730023	PM2.5 SCC-FDMS-Gravimetric	AL	Jefferson	33.553056	-86.815
040130019	PM2.5 SCC-FDMS-Gravimetric	AZ	Maricopa	33.48385	-112.14257
040139812	PM2.5 SCC-FDMS-Gravimetric	AZ	Maricopa	33.4265	-112.11814
040139997	PM2.5 VSCC-FDMS-Gravimetric	AZ	Maricopa	33.503643	-112.095
060271023	PM2.5 VSCC-FDMS-Gravimetric	CA	Inyo	37.362194	-118.41654
080131001	PM2.5 SCC-FDMS-Gravimetric	CO	Boulder	40.01297	-105.26719
080131001	PM2.5 VSCC-FDMS-Gravimetric	CO	Boulder	40.01297	-105.26719
080310002	PM2.5 SCC-FDMS-Gravimetric	CO	Denver	39.751185	-104.98762
080310013	PM2.5 SCC-FDMS-Gravimetric	CO	Denver	39.73858	-104.93996
080350004	PM2.5 SCC-FDMS-Gravimetric	CO	Douglas	39.53448	-105.07035
080350004	PM2.5 VSCC-FDMS-Gravimetric	CO	Douglas	39.53448	-105.07035
090010010	PM2.5 VSCC-FDMS-Gravimetric	CT	Fairfield	41.170833	-73.194722
090050004	PM2.5 VSCC-FDMS-Gravimetric	CT	Litchfield	41.64486	-73.07908
090090027	PM2.5 VSCC-FDMS-Gravimetric	CT	New Haven	41.301111	-72.902778
190170011	PM2.5 SCC-FDMS-Gravimetric	IA	Bremer	42.743056	-92.513056
190450021	PM2.5 VSCC-FDMS-Gravimetric	IA	Clinton	41.874972	-90.177444
191130037	PM2.5 SCC-FDMS-Gravimetric	IA	Linn	42.008333	-91.678611
191370002	PM2.5 VSCC-FDMS-Gravimetric	IA	Montgomery	40.971211	-95.043868
191471002	PM2.5 VSCC-FDMS-Gravimetric	IA	Palo Alto	43.123333	-94.693333
191530030	PM2.5 SCC-FDMS-Gravimetric	IA	Polk	41.603132	-93.643234
191630015	PM2.5 VSCC-FDMS-Gravimetric	IA	Scott	41.53	-90.5875
191630019	PM2.5 VSCC-FDMS-Gravimetric	IA	Scott	41.517778	-90.618611
191770006	PM2.5 VSCC-FDMS-Gravimetric	IA	Van Buren	40.695078	-92.006318
202090021	PM2.5 SCC-FDMS-Gravimetric	KS	Wyandotte	39.1175	-94.635556
260050003	PM2.5 SCC-FDMS-Gravimetric	MI	Allegan	42.767778	-86.148611
260170014	PM2.5 SCC-FDMS-Gravimetric	MI	Bay	43.571389	-83.890833
260490021	PM2.5 SCC-FDMS-Gravimetric	MI	Genesee	43.04722	-83.670278
260650012	PM2.5 SCC-FDMS-Gravimetric	MI	Ingham	42.738611	-84.534722
260770008	PM2.5 SCC-FDMS-Gravimetric	MI	Kalamazoo	42.278056	-85.541944
260810020	PM2.5 SCC-FDMS-Gravimetric	MI	Kent	42.984167	-85.671389
261130001	PM2.5 SCC-FDMS-Gravimetric	MI	Missaukee	44.310556	-84.891944
261470005	PM2.5 SCC-FDMS-Gravimetric	MI	St Clair	42.953333	-82.456389
261530001	PM2.5 SCC-FDMS-Gravimetric	MI	Schoolcraft	46.28888	-85.95027
261610008	PM2.5 SCC-FDMS-Gravimetric	MI	Washtenaw	42.240556	-83.599722
261630001	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.228611	-83.208333
261630033	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.306666	-83.148889
261630039	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.323333	-83.068611
290210005	PM2.5 SCC-FDMS-Gravimetric	MO	Buchanan	39.741667	-94.858333
290390001	PM2.5 SCC-FDMS-Gravimetric	MO	Cedar	37.695833	-94.0375
290470005	PM2.5 SCC-FDMS-Gravimetric	MO	Clay	39.303056	-94.376389
290950034	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MO	Jackson	39.104722	-94.570556
290950034	PM2.5 SCC-FDMS-Gravimetric	MO	Jackson	39.104722	-94.570556
290990012	PM2.5 SCC-FDMS-Gravimetric	MO	Jefferson	38.437778	-90.361389
291860005	PM2.5 SCC-FDMS-Gravimetric	MO	Ste Genevieve	37.896944	-90.422222
291893001	PM2.5 SCC-FDMS-Gravimetric	MO	St Louis	38.641389	-90.345833
330090010	PM2.5 VSCC-FDMS-Gravimetric	NH	Grafton	43.62957	-72.226083
330150014	PM2.5 VSCC-FDMS-Gravimetric	NH	Rockingham	43.075278	-70.748056
340030004	PM2.5 SCC-FDMS-Gravimetric	NJ	Bergen	40.85435	-73.96825
340070003	PM2.5 SCC-FDMS-Gravimetric	NJ	Camden	39.92304	-75.09762

340110007	PM2.5 SCC-FDMS-Gravimetric	NJ	Cumberland	39.42227	-75.0252
340171003	PM2.5 SCC-FDMS-Gravimetric	NJ	Hudson	40.72545	-74.05229
340190001	PM2.5 SCC-FDMS-Gravimetric	NJ	Hunterdon	40.51527	-74.80666
340230006	PM2.5 SCC-FDMS-Gravimetric	NJ	Middlesex	40.47279	-74.42251
340390004	PM2.5 SCC-FDMS-Gravimetric	NJ	Union	40.64144	-74.20836
360632008	PM2.5 SCC-FDMS-Gravimetric	NY	Niagara	43.08216	-79.00099
360810124	PM2.5 SCC-FDMS-Gravimetric	NY	Queens	40.7362	-73.82317
361010003	PM2.5 SCC-FDMS-Gravimetric	NY	Steuben	42.09071	-77.21025
371190041	PM2.5 SCC-FDMS-Gravimetric	NC	Mecklenburg	35.240278	-80.785556
390250022	PM2.5 SCC-FDMS-Gravimetric	OH	Clermont	39.082319	-84.144193
390350060	PM2.5 SCC-FDMS-Gravimetric	OH	Cuyahoga	41.493955	-81.678542
390490029	PM2.5 SCC-FDMS-Gravimetric	OH	Franklin	40.086667	-82.815556
390610040	PM2.5 SCC-FDMS-Gravimetric	OH	Hamilton	39.128611	-84.504167
390810017	PM2.5 SCC-FDMS-Gravimetric	OH	Jefferson	40.366104	-80.615002
390853002	PM2.5 SCC-FDMS-Gravimetric	OH	Lake	41.7225	-81.241944
390933002	PM2.5 SCC-FDMS-Gravimetric	OH	Lorain	41.463056	-82.114444
391030003	PM2.5 SCC-FDMS-Gravimetric	OH	Medina	41.102778	-81.911667
391530017	PM2.5 SCC-FDMS-Gravimetric	OH	Summit	41.063333	-81.468611
400190297	PM2.5 VSCC-FDMS-Gravimetric	OK	Carter	34.257125	-97.474341
400270049	PM2.5 VSCC-FDMS-Gravimetric	OK	Cleveland	35.320105	-97.484099
400310647	PM2.5 VSCC-FDMS-Gravimetric	OK	Comanche	34.626418	-98.383173
400710602	PM2.5 VSCC-FDMS-Gravimetric	OK	Kay	36.705328	-97.087656
401091037	PM2.5 VSCC-FDMS-Gravimetric	OK	Oklahoma	35.614131	-97.475083
401210415	PM2.5 VSCC-FDMS-Gravimetric	OK	Pittsburg	34.90227	-95.784375
401430174	PM2.5 VSCC-FDMS-Gravimetric	OK	Tulsa	35.953708	-96.004975
401431127	PM2.5 VSCC-FDMS-Gravimetric	OK	Tulsa	36.204902	-95.976537
420070014	PM2.5 SCC-FDMS-Gravimetric	PA	Beaver	40.747778	-80.316667
420110009	PM2.5 SCC-FDMS-Gravimetric	PA	Berks	40.320278	-75.926667
420110010	PM2.5 SCC-FDMS-Gravimetric	PA	Berks	40.392694	-75.925222
420710007	PM2.5 SCC-FDMS-Gravimetric	PA	Lancaster	40.046667	-76.283333
420910013	PM2.5 SCC-FDMS-Gravimetric	PA	Montgomery	40.112222	-75.309167
421330008	PM2.5 SCC-FDMS-Gravimetric	PA	York	39.965278	-76.699444
450450008	PM2.5 SCC-FDMS-Gravimetric	SC	Greenville	34.838814	-82.402914
500030004	PM2.5 VSCC-FDMS-Gravimetric	VT	Bennington	42.88759	-73.24984
500070014	PM2.5 VSCC-FDMS-Gravimetric	VT	Chittenden	44.4762	-73.2106
500210002	PM2.5 VSCC-FDMS-Gravimetric	VT	Rutland	43.608056	-72.982778
550090005	PM2.5 SCC-FDMS-Gravimetric	WI	Brown	44.516667	-87.993889
550250041	PM2.5 SCC-FDMS-Gravimetric	WI	Dane	43.100833	-89.357222
550270007	PM2.5 SCC-FDMS-Gravimetric	WI	Dodge	43.435	-88.527778
550590019	PM2.5 SCC-FDMS-Gravimetric	WI	Kenosha	42.504722	-87.8093
550710007	PM2.5 SCC-FDMS-Gravimetric	WI	Manitowoc	44.138611	-87.616111
550790026	PM2.5 SCC-FDMS-Gravimetric	WI	Milwaukee	43.061111	-87.9125
550790059	PM2.5 SCC-FDMS-Gravimetric	WI	Milwaukee	42.955	-87.934167
550890009	PM2.5 SCC-FDMS-Gravimetric	WI	Ozaukee	43.498056	-87.81
551091002	PM2.5 SCC-FDMS-Gravimetric	WI	St Croix	45.124444	-92.6625
551110007	PM2.5 SCC-FDMS-Gravimetric	WI	Sauk	43.435556	-89.680278
551198001	PM2.5 SCC-FDMS-Gravimetric	WI	Taylor	45.203889	-90.6
551330027	PM2.5 SCC-FDMS-Gravimetric	WI	Waukesha	43.020278	-88.215

Table B9. Raw SC Geographic Information for 2006

AQS_ID	SC_Method	State	County	Latitude	Longitude
010890014	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	AL	Madison	34.68767	-86.58637
010970003	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	AL	Mobile	30.769722	-88.0875
010970003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	AL	Mobile	30.769722	-88.0875
011190002	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	AL	Sumter	32.363889	-88.201944
011190002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Sumter	32.363889	-88.201944
021100004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	AK	Juneau	58.388889	-134.56556
040191030	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	31.87952	-110.99644
040191032	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	32.17295	-110.98005
040191034	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	32.38082	-111.12716
040191113	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	32.2518	-110.9653
040230004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Santa Cruz	31.337204	-110.93672
050350005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Crittenden	35.196667	-90.191111
051191005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Pulaski	34.676268	-92.337164
051390006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Union	33.215	-92.668889
051430004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Washington	36.045751	-94.168978
051430005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Washington	36.179708	-94.116687
060070002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Butte	39.7575	-121.84222
060074001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Butte	39.321667	-121.66861
060111002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Colusa	39.203056	-122.01667
060152003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Del Norte		
060190008	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Fresno	36.781389	-119.77222
060193002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Fresno	36.60722	-119.53972
060210002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Glenn	39.517778	-122.19028
060210003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Glenn	39.533889	-122.19083
060232002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Humboldt	41.191944	-123.69028
060250005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Imperial	32.676111	-115.48333
060250006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Imperial	32.677778	-115.38972
060290014	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Kern	35.356111	-119.04028
060379034	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Los Angeles	34.813056	-118.88389
060410003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Marin	38.126944	-122.91389
060431001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Mariposa	37.745833	-119.60278
060610006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Placer	38.745833	-121.26528
060631009	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Plumas	39.808333	-120.47167
060670006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.614167	-121.36694
060670010	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.558333	-121.49194
060670011	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.301944	-121.42222
060670012	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.683889	-121.16278
060771002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Joaquin	37.950833	-121.2675
060990005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Stanislaus	37.641667	-120.99361
061010003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sutter	39.138889	-121.6175
061072002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Tulare	36.332222	-119.29028
061110009	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.404611	-118.81
061111004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.448333	-119.23028
061112002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.2775	-118.68472
061113001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.255	-119.1425
061130004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Yolo	38.533333	-121.775
080010006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Adams	39.825739	-104.93699
080010006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Adams	39.825739	-104.93699
080130003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Boulder	40.165833	-105.10111

080130003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Boulder	40.165833	-105.10111
080130003	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Boulder	40.165833	-105.10111
080770017	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Mesa	39.063625	-108.56102
080770017	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Mesa	39.063625	-108.56102
080770017	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Mesa	39.063625	-108.56102
081230006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Weld	40.414722	-104.70611
081230006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Weld	40.414722	-104.70611
090010010	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Fairfield	41.170833	-73.194722
090011123	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Fairfield	41.399167	-73.443056
090032006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Hartford	41.7425	-72.634444
090050005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Litchfield	41.821389	-73.297222
090090027	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.301111	-72.902778
090092123	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.550556	-73.043611
100010002	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	Kent	38.984722	-75.555556
100031012	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	New Castle	39.691944	-75.761667
100032004	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	New Castle	39.739444	-75.558056
100051002	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	Sussex	38.644444	-75.613056
120090011	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Brevard	28.46938	-80.66683
120111002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Broward	26.082778	-80.237778
120210004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Collier	26.27	-81.711
120310098	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Duval	30.135556	-81.634167
120310100	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Duval	30.261	-81.454
120570030	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.931944	-82.509722
120571065	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.892222	-82.538611
120573002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.96565	-82.2304
120574004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.9925	-82.125833
120690003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Lake	29.014	-81.64119
120730012	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Leon	30.439722	-84.348333
120731005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Leon	30.266944	-84.428333
120861016	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Miami-Dade	25.794167	-80.206111
120866001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Miami-Dade	25.471389	-80.483333
120952002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Orange	28.599444	-81.363056
121030018	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Pinellas	27.785556	-82.74
121111002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	St Lucie	27.448889	-80.40833
160010010	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Ada	43.607568	-116.34843
160010010	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Ada	43.607568	-116.34843
160090010	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Benewah	47.316667	-116.57028
160090010	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Benewah	47.316667	-116.57028
160170005	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Bonner	48.2675	-116.57222
160170005	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Bonner	48.2675	-116.57222
160270007	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.705583	-116.6232
160490003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Idaho	46.2094	-116.0275
160690013	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Nez Perce	46.3972	-116.8062
160690014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Nez Perce	46.335	-116.5359
170310001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.672745	-87.732457
170310022	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.689195	-87.539318
170310057	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.914733	-87.722725
170310076	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.751369	-87.713745
170314007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	42.060278	-87.863333
170316006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.874944	-87.825876
170434002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Du Page	41.771195	-88.152502
170650002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Hamilton	38.083942	-88.624942

170990007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	La Salle	41.293125	-89.049242
171110001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Mc Henry	42.221421	-88.2421
171150013	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Macon	39.866944	-88.925556
171430037	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Peoria	40.698886	-89.584741
171630010	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	St Clair	38.612222	-90.160278
180431004	PM2.5 SCC-FDMS-Gravimetric	IN	Floyd	38.308056	-85.834167
180970078	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
180970078	PM2.5 SCC-FDMS-Gravimetric	IN	Marion	39.811097	-86.114469
181270024	PM2.5 SCC-FDMS-Gravimetric	IN	Porter	41.6175	-87.199167
181410015	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IN	St Joseph	41.696692	-86.214683
181411008	PM2.5 SCC-FDMS-Gravimetric	IN	St Joseph	41.693611	-86.236667
181670018	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IN	Vigo	39.486111	-87.401389
181670018	PM2.5 SCC-FDMS-Gravimetric	IN	Vigo	39.486111	-87.401389
201070002	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	KS	Linn	38.135833	-94.731944
201950001	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	KS	Trego	38.770278	-99.763611
211110027	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.137222	-85.578333
211110043	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.233222	-85.825278
211110048	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.240556	-85.731667
211110051	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.060833	-85.896111
230010011	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Androscoggin	44.089444	-70.215
230050027	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Cumberland	43.661944	-70.265833
230090103	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Hancock	44.37705	-68.2609
230190002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Penobscot	44.798849	-68.769745
240150003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Cecil	39.701111	-75.86
240230002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Garrett	39.705916	-79.012028
240330030	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Prince Georges	39.055277	-76.878333
240430009	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Washington	39.565556	-77.721944
245100040	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Baltimore City	39.298056	-76.604722
260170014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Bay	43.571389	-83.890833
260490021	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Genesee	43.04722	-83.670278
260650012	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Ingham	42.738611	-84.534722
260770008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Kalamazoo	42.278056	-85.541944
260810020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Kent	42.984167	-85.671389
261130001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Missaukee	44.310556	-84.891944
261470005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	St Clair	42.953333	-82.456389
261530001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Schoolcraft	46.28888	-85.95027
261610008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Washtenaw	42.240556	-83.599722
261630001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.228611	-83.208333
261630033	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.306666	-83.148889
261630038	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.335	-83.1097
261630039	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.323333	-83.068611
295100085	PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 30 deg C	MO	St Louis City	38.6563	-90.1981
320030020	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.245278	-115.09222
320030073	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.173056	-115.33167
320030298	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.052222	-115.05694
320030539	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.144444	-115.08556
320030561	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.163994	-115.11393
320032002	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.191111	-115.12222
330074002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NH	Coos	44.290556	-71.225
330074002	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	NH	Coos	44.290556	-71.225
330090010	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NH	Grafton	43.62957	-72.226083
330110020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NH	Hillsborough	43.000556	-71.468056

330115001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NH	Hillsborough	42.861901	-71.878613
330115001	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	NH	Hillsborough	42.861901	-71.878613
350010019	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.10728	-106.56359
350010027	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.1539	-106.69715
350010029	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.01708	-106.65735
350011013	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.19324	-106.61382
350439004	PM2.5 VSCC-FDMS-Gravimetric	NM	Sandoval	35.615278	-106.72444
350559016	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Taos	36.4417	-105.5469
360010005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Albany	42.6424	-73.75453
360050110	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81616	-73.90207
360050112	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81564	-73.8851
360050113	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.80838	-73.92604
360290005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.87684	-78.80988
360310003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Essex	44.39309	-73.85892
360470052	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.64154	-74.01835
360470118	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.69457	-73.92778
360470121	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.68577	-73.99243
360551007	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Monroe	43.146198	-77.54813
360590005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Nassau	40.7432	-73.58543
360610062	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72052	-74.00409
360610115	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.8489	-73.93068
360610117	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72333	-73.98231
360610119	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.81148	-73.95316
360610125	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.71163	-74.00514
360610134	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.7139	-73.9956
360632008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Niagara	43.08216	-79.00099
360652001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Oneida	43.0994	-75.22519
360710002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Orange	41.49947	-74.00973
360810120	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.72695	-73.89314
360810124	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.7362	-73.82317
360850111	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Richmond	40.57997	-74.19872
360850114	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Richmond	40.63136	-74.15717
361010003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Steuben	42.09071	-77.21025
361030009	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	NY	Suffolk	40.8275	-73.05694
361030009	OTHR AUTOMATD 2.5 MASS CONCENT-SURROGATE MEASURE	NY	Suffolk	40.8275	-73.05694
361030010	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	NY	Suffolk	40.82686	-73.05734
361192004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Westchester	41.052	-73.76398
370210034	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Buncombe	35.609722	-82.350833
370330001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Caswell	36.307033	-79.467417
370350004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Catawba	35.728889	-81.365556
370510009	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Cumberland	35.041416	-78.953112
370570002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Davidson	35.814444	-80.2625
370670022	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.110556	-80.226667
370670030	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.026	-80.342
370710016	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Gaston	35.253056	-81.153333
370810013	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Guilford	36.109167	-79.801111
371110004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mc Dowell	35.687404	-81.993789
371170001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Martin	35.81069	-76.89782
371190041	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.240278	-80.785556
371190042	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.151389	-80.866944
371290002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	New Hanover	34.364167	-77.838611
371590021	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Rowan	35.551868	-80.395039

371730002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Swain	35.435509	-83.443697
371830014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Wake	35.856111	-78.574167
371910005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Wayne	35.369214	-77.993893
380070002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Billings	46.8943	-103.37853
380130004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Burke	48.64193	-102.4018
380150003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Burleigh	46.825425	-100.76821
380171004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Cass	46.933754	-96.85535
380250003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Dunn	47.3132	-102.5273
380530002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	McKenzie	47.5812	-103.2995
380570004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Mercer	47.298611	-101.76694
380650002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Oliver	47.185833	-101.42806
390010001	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Adams	38.795	-83.535278
390171004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	OH	Butler	39.53	-84.3925
390230005	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Clark	39.928889	-83.809722
390490028	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Franklin	39.914167	-82.957222
390570005	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Greene	39.808056	-83.886944
390610006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	OH	Hamilton	39.278499	-84.365974
390950024	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Lucas	41.644167	-83.546667
390990014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Mahoning	41.095868	-80.658426
391130031	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Montgomery	39.759444	-84.144444
391130032	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Montgomery	39.760278	-84.187778
391351001	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Preble	39.835556	-84.720833
391510020	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Stark	40.800556	-81.373333
391550007	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Trumbull	41.214167	-80.7875
400979014	PM2.5 SCC-FDMS-Gravimetric	OK	Mayes	36.2284	-95.25
401159004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Ottawa	36.922222	-94.838889
401359015	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Sequoyah	35.58175	-94.829
401359015	PM2.5 SCC-FDMS-Gravimetric	OK	Sequoyah	35.58175	-94.829
420010001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Adams	39.92	-77.31
420030008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.465556	-79.961111
420030064	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.323611	-79.868333
420050001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Armstrong	40.814167	-79.565
420210011	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Cambria	40.309722	-78.915
420430401	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Dauphin	40.245	-76.844722
420450002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Delaware	39.835556	-75.3725
420950025	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Northampton	40.628056	-75.341111
421250005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Washington	40.146667	-79.902222
440030002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Kent	41.6156	-71.7199
440030012	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Kent	41.737969	-71.41441
440030015	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Kent	41.715811	-71.43755
440070022	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Providence	41.807949	-71.415
440090007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Washington	41.491667	-71.427778
450070003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Anderson	34.776927	-82.490386
450190046	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Charleston	32.941023	-79.657187
450190046	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	SC	Charleston	32.941023	-79.657187
450250001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Chesterfield	34.615367	-80.198787
450290002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Colleton	33.009562	-80.965042
450370001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Edgefield	33.741693	-81.853633
450450009	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.901046	-82.31307
450450009	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.901046	-82.31307
450450010	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.869374	-82.422593
450450013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.854799	-82.380631

450450014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.843991	-82.401159
450730001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Oconee	34.805261	-83.2377
450770002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Pickens	34.655221	-82.838653
460330132	Andersen BAM w/PM2.5 SCC-Beta Attenuation	SD	Custer	43.5578	-103.4839
460710001	Andersen BAM w/PM2.5 SCC-Beta Attenuation	SD	Jackson	43.74561	-101.94122
461030020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	SD	Pennington	44.087397	-103.27378
470090011	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Blount	35.768333	-83.942222
470090101	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Blount	35.631389	-83.943611
470370036	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Davidson	36.118251	-86.873547
470450004	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Dyer	36.052778	-89.381944
470630003	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Hamblen	36.307778	-83.134472
470654002	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Hamilton	35.050928	-85.292975
470750003	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Haywood	35.468056	-89.167778
470931013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Knox	35.98055	-83.93277
470990002	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Lawrence	35.116111	-87.47
471071002	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	McMinn	35.451111	-84.599167
471130006	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Madison	35.653651	-88.809084
471210104	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Meigs	35.288889	-84.946111
471251010	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Montgomery	36.625	-87.169167
471450004	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Roane	35.9386	-84.5438
471572005	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Shelby	35.188	-89.642
471631007	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Sullivan	36.540654	-82.521667
471650007	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Sumner	36.297778	-86.652778
490050004	PM2.5 SCC-FDMS-Gravimetric	UT	Cache	41.731111	-111.8375
510591005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Fairfax	38.837517	-77.163231
510870014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Henrico	37.558333	-77.400278
511130003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Madison	38.521944	-78.436111
516500004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Hampton City	37.003333	-76.399167
517700015	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Roanoke City	37.297178	-79.95557
560391012	Andersen BAM w/PM2.5 SCC-Beta Attenuation	WY	Teton	44.457778	-110.82917
720170003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PR	Barceloneta	18.436111	-66.580556
720250003	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 50 deg C	PR	Caguas	18.232499	-66.037023
720330008	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 50 deg C	PR	Catano	18.440028	-66.127076
720330009	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 50 deg C	PR	Catano	18.449964	-66.149043
720590017	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 50 deg C	PR	Guyanilla	18.025175	-66.770175
800020012	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MX	Baja California**	32.629167	-115.44694

(N. B.: State abbreviations PR and MX refer to Puerto Rico and Mexico, respectively.)
****Approximately 3 km south of the California border near Mexicali, Baja California, Mexico.**

Table B10. Acceptable SC Geographic Information for 2007

AQS_ID	SC_Method	State	County	Latitude	Longitude
010730023	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.553056	-86.815
010731005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.331111	-87.003611
010731009	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.459722	-87.305556
010731010	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.545278	-86.549167
010732003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.499722	-86.924167
010732006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.386389	-86.816667
010735002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.704722	-86.669167
010735003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.801667	-86.9425
060010007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Alameda	37.6875	-121.7842
060012004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Alameda	37.8778	-122.3013
060195001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Fresno	36.819167	-119.71639
060290010	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Kern	35.385556	-119.01472
060310004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Kings	36.101389	-119.56583
060550003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Napa	38.310833	-122.29472
060570005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Nevada	39.234444	-121.05556
060571001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Nevada	39.338611	-120.17028
060750005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Francisco	37.766	-122.3991
060773005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Joaquin	37.6825	-121.44056
060811001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Mateo	37.4829	-122.2034
060832004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Santa Barbara	34.6375	-120.45639
060850005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Santa Clara	37.3485	-121.895
060950004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Solano	38.1027	-122.2382
060950006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Solano	38.065567	-122.15073
060990006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Stanislaus	37.488333	-120.83583
110010043	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	DC	District Of Columbia	38.918889	-77.0125
120330004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Escambia	30.525	-87.204167
130210012	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Bibb	32.805244	-83.543628
130511002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Chatham	32.090278	-81.130556
130590002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Clarke	33.917925	-83.344512
130770002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Coweta	33.403835	-84.746028
130890002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	De Kalb	33.688007	-84.290325
131210055	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Fulton	33.720428	-84.357449
131350002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Gwinnett	33.963074	-84.069193
131510002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Henry	33.433426	-84.161797
132150008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Muscogee	32.521099	-84.944695
132230003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Paulding	33.92855	-85.04548
132450091	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Richmond	33.433883	-82.022414
132950002	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	GA	Walker	34.966557	-85.297229
132970001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Walton	33.625129	-83.68176
160010011	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Ada	43.636111	-116.27028
160010011	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Ada	43.636111	-116.27028
160050015	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Bannock	42.876725	-112.46035
160050015	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Bannock	42.876725	-112.46035
160090011	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Benewah	47.338702	-116.88461
160190013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Bonneville	43.518267	-112.02071
160190013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Bonneville	43.518267	-112.02071
160270004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Canyon	43.562401	-116.56323
160270004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.562401	-116.56323
160490002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Idaho	45.931389	-116.11528

160550006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Kootenai	47.682315	-116.76553
160550006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Kootenai	47.682315	-116.76553
160570005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Latah	46.721932	-116.95918
160590004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Lemhi	45.170556	-113.89222
160590004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Lemhi	45.170556	-113.89222
160690012	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Nez Perce	46.404722	-116.96889
160770011	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Power	42.9125	-112.53556
160790017	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Shoshone	47.536389	-116.23667
160790017	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Shoshone	47.536389	-116.23667
160790017	PM2.5 VSCC-FDMS-Gravimetric	ID	Shoshone	47.536389	-116.23667
160830010	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Twin Falls	42.564097	-114.4462
160830010	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Twin Falls	42.564097	-114.4462
160850002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Valley	44.890197	-116.1065
160850002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Valley	44.890197	-116.1065
170310001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.672745	-87.732457
170310022	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.689195	-87.539318
170310057	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.914733	-87.722725
170310076	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.751369	-87.713745
170314201	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	42.14	-87.799167
170316006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.874944	-87.825876
170434002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Du Page	41.771195	-88.152502
170650002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Hamilton	38.083942	-88.624942
170990007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	La Salle	41.293125	-89.049242
171110001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Mc Henry	42.221421	-88.2421
171150013	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Macon	39.866944	-88.925556
171430037	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Peoria	40.698886	-89.584741
171630010	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	St Clair	38.612222	-90.160278
180030004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Allen	41.094722	-85.101944
180890022	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Lake	41.606667	-87.304722
180970078	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
180970078	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
180970081	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.788903	-86.214628
181570008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Tippecanoe	40.431639	-86.8525
181630012	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Vanderburgh	38.021667	-87.569444
191530030	Met-One BAM W/PM2.5 VSCC-Beta Attenuation	IA	Polk	41.603132	-93.643234
202090021	PM2.5 SCC-FDMS-Gravimetric	KS	Wyandotte	39.1175	-94.635556
210190017	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Boyd	38.459167	-82.640556
210290006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Bullitt	37.985556	-85.713056
210373002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Campbell	39.021806	-84.474453
210590005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Daviess	37.780833	-87.075556
210670012	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Fayette	38.065	-84.5
210930006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Hardin	37.706389	-85.851667
211170007	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Kenton	39.0725	-84.525
211451024	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	McCracken	37.058056	-88.5725
211830032	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Ohio	37.319725	-86.956097
211950002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Pike	37.482778	-82.535278
212270008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Warren	37.036667	-86.250556
220150008	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Bossier	32.534167	-93.749722
220190008	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Calcasieu	30.261667	-93.284167
220330009	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	East Baton Rouge	30.461111	-91.176944
220330013	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	East Baton Rouge	30.700278	-91.055833
220511001	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Jefferson	30.043333	-90.275

220570004	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Lafourche	29.763889	-90.765183
220630002	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Livingston	30.3125	-90.8125
220710012	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Orleans	29.994444	-90.102778
220870007	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	St Bernard	29.94475	-89.976263
221210001	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	West Baton Rouge	30.501944	-91.209722
230031100	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ME	Aroostook	46.696431	-68.033006
245100040	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MD	Baltimore City	39.298056	-76.604722
250030006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Berkshire	42.44	-73.255278
250051004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Bristol	41.6857	-71.1698
250092006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Essex	42.474444	-70.9725
250095005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Essex	42.762778	-71.105833
250130016	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Hampden	42.108889	-72.591389
250154002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Hampshire	42.298333	-72.334722
250213003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Norfolk	42.21222	-71.11472
250250042	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.329444	-71.082778
250250043	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.362778	-71.054167
250270023	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Worcester	42.265802	-71.794835
270031002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Anoka	45.13975	-93.207616
270052013	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Becker	46.851811	-95.846272
270177416	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MN	Carlton	46.705241	-92.523606
270317810	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Cook	47.972085	-89.69098
270353204	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Crow Wing	46.394159	-94.144405
270370470	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Dakota	44.740751	-93.237293
270530963	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Hennepin	44.955396	-93.25827
270530969	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Hennepin	44.902568	-93.238287
270750005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Lake	47.948622	-91.495574
270834210	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Lyon	44.457691	-95.836327
271095008	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Olmsted	43.996908	-92.450366
271230871	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Ramsey	44.961451	-93.035894
271377551	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	St Louis	46.766667	-92.133056
271453052	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Stearns	45.549839	-94.13345
271713201	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Wright	45.211038	-93.669012
280110001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Bolivar	33.746056	-90.723028
280470008	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Harrison	30.390139	-89.049722
280490010	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Hinds	32.385583	-90.140917
280590006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Jackson	30.378194	-88.533944
280750003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Lauderdale	32.364389	-88.731444
280810005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Lee	34.264917	-88.766222
290210005	PM2.5 SCC-FDMS-Gravimetric	MO	Buchanan	39.741667	-94.858333
290390001	PM2.5 SCC-FDMS-Gravimetric	MO	Cedar	37.695833	-94.0375
290470005	PM2.5 SCC-FDMS-Gravimetric	MO	Clay	39.303056	-94.376389
290950034	PM2.5 SCC-FDMS-Gravimetric	MO	Jackson	39.104722	-94.570556
290990012	PM2.5 SCC-FDMS-Gravimetric	MO	Jefferson	38.437778	-90.361389
291860005	PM2.5 SCC-FDMS-Gravimetric	MO	Ste Genevieve	37.896944	-90.422222
291893001	PM2.5 SCC-FDMS-Gravimetric	MO	St Louis	38.641389	-90.345833
295100085	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 30 deg C	MO	St Louis City	38.6563	-90.1981
300310013	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Gallatin	44.657778	-111.09083
300310016	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Gallatin	44.661481	-111.10507
300490018	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Lewis And Clark	46.603889	-112.03528
300530018	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Lincoln	48.384167	-115.54806
300810007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Ravalli	46.245633	-114.15886
300930009	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Silver Bow	45.99879	-112.53662

310550019	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	NE	Douglas	41.247222	-95.975556
320030020	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.245278	-115.09222
320030022	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.390775	-114.90681
320030073	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.173056	-115.33167
320030298	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.052222	-115.05694
320030539	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.144444	-115.08556
320030561	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.163994	-115.11393
320031019	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	35.785634	-115.35706
320032002	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.191111	-115.12222
340010006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Atlantic	39.464967	-74.448902
340030004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Bergen	40.85435	-73.96825
340070003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Camden	39.92304	-75.09762
340110007	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Cumberland	39.42227	-75.0252
340171003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Hudson	40.72545	-74.05229
340190001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Hunterdon	40.51527	-74.80666
340230006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Middlesex	40.47279	-74.42251
340390004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Union	40.64144	-74.20836
340392003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Union	40.60607	-74.27498
350010019	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.10728	-106.56359
350010019	PM2.5 VSCC-FDMS-Gravimetric	NM	Bernalillo	35.10728	-106.56359
350010027	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.1539	-106.69715
350010027	PM2.5 VSCC-FDMS-Gravimetric	NM	Bernalillo	35.1539	-106.69715
350010029	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.01708	-106.65735
350010029	PM2.5 VSCC-FDMS-Gravimetric	NM	Bernalillo	35.01708	-106.65735
350011013	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NM	Bernalillo	35.19324	-106.61382
350011013	PM2.5 VSCC-FDMS-Gravimetric	NM	Bernalillo	35.19324	-106.61382
350130016	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	32.003611	-106.59917
350130017	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	31.795833	-106.5575
350130021	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	31.796111	-106.58389
350130022	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	31.787778	-106.68278
350151005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Eddy	32.38	-104.26222
350250008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Lea	32.726656	-103.12292
350439004	PM2.5 VSCC-FDMS-Gravimetric	NM	Sandoval	35.615278	-106.72444
350450018	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	San Juan	36.80973	-107.65158
350490020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Santa Fe	35.671111	-105.95361
350490021	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Santa Fe	35.61975	-106.07968
350550005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Taos	36.383333	-105.58333
350610008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Valencia	34.8147	-106.7396
360010005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Albany	42.6424	-73.75453
360050110	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81616	-73.90207
360050112	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81564	-73.8851
360050113	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.80838	-73.92604
360290005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.87684	-78.80988
360291013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.988443	-78.918589
360291014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.998125	-78.899264
360291015	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.981312	-78.906425
360296002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.968563	-78.943842
360310003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Essex	44.39309	-73.85892
360470052	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.64154	-74.01835
360470118	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.69457	-73.92778
360470121	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.68577	-73.99243
360551007	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Monroe	43.146198	-77.54813

360590005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Nassau	40.7432	-73.58543
360610062	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72052	-74.00409
360610115	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.8489	-73.93068
360610117	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72333	-73.98231
360610119	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.81148	-73.95316
360610125	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.71163	-74.00514
360610128	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.73003	-73.98446
360610134	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.7139	-73.9956
360610135	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.81833	-73.95083
360632008	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Niagara	43.08216	-79.00099
360652001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Oneida	43.0994	-75.22519
360710002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Orange	41.49947	-74.00973
360810120	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.72695	-73.89314
360810124	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.7362	-73.82317
360850111	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Richmond	40.57997	-74.19872
360850114	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Richmond	40.63136	-74.15717
361010003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Steuben	42.09071	-77.21025
361192004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Westchester	41.052	-73.76398
370010002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Alamance	36.089004	-79.407821
370210034	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Buncombe	35.609722	-82.350833
370330001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Caswell	36.307033	-79.467417
370350004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Catawba	35.728889	-81.365556
370510009	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Cumberland	35.041416	-78.953112
370570002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Davidson	35.814444	-80.2625
370670022	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.110556	-80.226667
370670030	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.026	-80.342
370710016	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Gaston	35.253056	-81.153333
370810013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Guilford	36.109167	-79.801111
371110004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mc Dowell	35.687404	-81.993789
371170001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Martin	35.81069	-76.89782
371190041	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.240278	-80.785556
371190041	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.240278	-80.785556
371190042	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.151389	-80.866944
371190042	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.151389	-80.866944
371290002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	New Hanover	34.364167	-77.838611
371590021	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Rowan	35.551868	-80.395039
371730002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Swain	35.435509	-83.443697
371830014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Wake	35.856111	-78.574167
371910005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Wayne	35.369214	-77.993893
401159004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Ottawa	36.922222	-94.838889
401159005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Ottawa	36.9858	-94.8492
410010004	Correlated Radiance Research M903-Nephelometry	OR	Baker	44.78822	-117.8446
410030013	Correlated Radiance Research M903-Nephelometry	OR	Benton	44.588322	-123.27417
410050004	Correlated Radiance Research M903-Nephelometry	OR	Clackamas	45.259722	-122.5875
410050102	Correlated Radiance Research M903-Nephelometry	OR	Clackamas	45.288333	-121.79028
410090004	Correlated Radiance Research M903-Nephelometry	OR	Columbia	45.768056	-122.77194
410170120	Correlated Radiance Research M903-Nephelometry	OR	Deschutes	44.063904	-121.31258
410190002	Correlated Radiance Research M903-Nephelometry	OR	Douglas	43.22769	-123.3644
410230001	Correlated Radiance Research M903-Nephelometry	OR	Grant	44.4172	-118.9547
410250002	Correlated Radiance Research M903-Nephelometry	OR	Harney	43.586389	-119.05111
410290019	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.623214	-122.8102
410290133	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.314078	-122.87924

410330010	Correlated Radiance Research M903-Nephelometry	OR	Josephine	42.104278	-123.68108
410330011	Correlated Radiance Research M903-Nephelometry	OR	Josephine	42.289722	-123.2325
410330114	Correlated Radiance Research M903-Nephelometry	OR	Josephine	42.434139	-123.34849
410350004	Correlated Radiance Research M903-Nephelometry	OR	Klamath	42.188889	-121.7225
410351002	Correlated Radiance Research M903-Nephelometry	OR	Klamath	42.895814	-122.13602
410370001	Correlated Radiance Research M903-Nephelometry	OR	Lake	42.188889	-120.35194
410390013	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.047896	-123.09205
410390060	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.026312	-123.08374
410391009	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.046696	-123.0177
410392013	Correlated Radiance Research M903-Nephelometry	OR	Lane	43.744352	-122.48052
410430009	Correlated Radiance Research M903-Nephelometry	OR	Linn	44.615648	-123.0916
410430103	Correlated Radiance Research M903-Nephelometry	OR	Linn	44.383611	-121.86333
410470041	Correlated Radiance Research M903-Nephelometry	OR	Marion	44.94314	-123.00591
410510080	Correlated Radiance Research M903-Nephelometry	OR	Multnomah	45.496667	-122.60222
410510246	Correlated Radiance Research M903-Nephelometry	OR	Multnomah	45.561301	-122.67878
410590121	Correlated Radiance Research M903-Nephelometry	OR	Umatilla	45.651944	-118.81861
410591003	Correlated Radiance Research M903-Nephelometry	OR	Umatilla	45.828889	-119.26331
410610119	Correlated Radiance Research M903-Nephelometry	OR	Union	45.338972	-117.9048
410630001	Correlated Radiance Research M903-Nephelometry	OR	Wallowa	45.426306	-117.29667
410650007	Correlated Radiance Research M903-Nephelometry	OR	Wasco	45.602399	-121.20335
410670004	Correlated Radiance Research M903-Nephelometry	OR	Washington	45.52853	-122.97244
410670111	Correlated Radiance Research M903-Nephelometry	OR	Washington	45.4702	-122.81585
420030008	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.465556	-79.961111
420030064	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.323611	-79.868333
421010004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Philadelphia	40.008889	-75.097778
421010024	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Philadelphia	40.076389	-75.011944
450450008	PM2.5 SCC-FDMS-Gravimetric	SC	Greenville	34.838814	-82.402914
470370023	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Davidson	36.176326	-86.738902
471570024	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Shelby	35.150833	-90.041389
471570024	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Shelby	35.150833	-90.041389
471570038	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Shelby	35.184167	-89.930278
480290032	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Bexar	29.51505	-98.620191
480290053	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Bexar	29.58773	-98.312479
480290055	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Bexar	29.407222	-98.431111
480290059	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Bexar	29.275387	-98.311666
480290676	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Bexar	29.334167	-98.551667
480290677	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Bexar	29.423889	-98.580556
480610006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Cameron	25.892508	-97.493824
481130069	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Dallas	32.819952	-96.860082
481210034	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Denton	33.191667	-97.193333
481350003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ector	31.826578	-102.34198
481351014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ector	31.870233	-102.33477
481390015	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ellis	32.436944	-97.025
481390016	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ellis	32.481944	-97.0275
481391044	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ellis	32.177222	-96.87111
481410037	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.768274	-106.5012
481410044	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.765673	-106.45523
481410053	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.758516	-106.50105
481490001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Fayette	29.9625	-96.745278
481670014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Galveston	29.263319	-94.856568
481671034	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Galveston	29.254444	-94.861111
482010024	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.901111	-95.326944

482010026	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.8025	-95.12555
482010416	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.686389	-95.294722
482011034	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.767993	-95.220576
482011035	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.733713	-95.257591
482011039	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.670046	-95.128485
482011042	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	30.065278	-95.1875
482011050	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.583031	-95.015535
482030002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harrison	32.669003	-94.167449
482150043	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Hidalgo	26.226238	-98.291064
482430004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Jeff Davis	30.66938	-104.02463
482450020	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	30.066944	-94.077222
482450021	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	29.922778	-93.908889
482450022	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	29.863951	-94.317757
482570005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Kaufman	32.569167	-96.315833
482730314	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Kleberg	27.42694	-97.29861
483091037	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	McLennan	31.653056	-97.070556
483230004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Maverick	28.701944	-100.45083
483390078	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Montgomery	30.3503	-95.425135
483550025	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Nueces	27.7653	-97.4342
483611100	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Orange	30.194167	-93.866944
483750320	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Potter	35.201588	-101.90924
484391006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Tarrant	32.758889	-97.342222
484393011	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Tarrant	32.65639	-97.08889
484530014	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Travis	30.354426	-97.760257
484530020	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Travis	30.483159	-97.872266
484790313	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Webb	27.5994	-99.5333
484850315	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Wichita	33.863333	-98.5725
490050004	PM2.5 SCC-FDMS-Gravimetric	UT	Cache	41.731111	-111.8375
490353006	PM2.5 SCC-FDMS-Gravimetric	UT	Salt Lake	40.736389	-111.87222
490450003	PM2.5 SCC-FDMS-Gravimetric	UT	Tooele	40.543371	-112.29881
490494001	PM2.5 SCC-FDMS-Gravimetric	UT	Utah	40.341389	-111.71361
490570002	PM2.5 SCC-FDMS-Gravimetric	UT	Weber	41.206389	-111.97472
530010003	Correlated Radiance Research M903-Nephelometry	WA	Adams	47.128611	-118.38194
530030004	Correlated Radiance Research M903-Nephelometry	WA	Asotin	46.425571	-117.05973
530050002	Correlated Radiance Research M903-Nephelometry	WA	Benton	46.218611	-119.20556
530070003	Correlated Radiance Research M903-Nephelometry	WA	Chelan	47.83929	-120.01732
530070006	Correlated Radiance Research M903-Nephelometry	WA	Chelan	47.412222	-120.31833
530070006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Chelan	47.412222	-120.31833
530070006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Chelan	47.412222	-120.31833
530070010	Correlated Radiance Research M903-Nephelometry	WA	Chelan	47.598863	-120.6647
530090009	Correlated Radiance Research M903-Nephelometry	WA	Clallam	48.116389	-123.46444
530090013	Correlated Radiance Research M903-Nephelometry	WA	Clallam	48.286719	-124.62034
530090014	Correlated Radiance Research M903-Nephelometry	WA	Clallam	48.37182	-124.59519
530110013	Correlated Radiance Research M903-Nephelometry	WA	Clark	45.648333	-122.58694
530110013	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Clark	45.648333	-122.58694
530110013	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Clark	45.648333	-122.58694
530110019	Correlated Radiance Research M903-Nephelometry	WA	Clark	45.623889	-122.61194
530110022	Correlated Radiance Research M903-Nephelometry	WA	Clark	45.867734	-122.41195
530130001	Correlated Radiance Research M903-Nephelometry	WA	Columbia	46.531521	-118.21667
530150015	Correlated Radiance Research M903-Nephelometry	WA	Cowlitz	46.139444	-122.96194
530210002	Correlated Radiance Research M903-Nephelometry	WA	Franklin	46.575597	-119.00071
530251002	Correlated Radiance Research M903-Nephelometry	WA	Grant	47.130336	-119.2726

530270008	Correlated Radiance Research M903-Nephelometry	WA	Grays Harbor	46.8166	-123.1913
530270011	Correlated Radiance Research M903-Nephelometry	WA	Grays Harbor	47.343709	-124.28692
530272002	Correlated Radiance Research M903-Nephelometry	WA	Grays Harbor	46.972696	-123.83047
530310003	Correlated Radiance Research M903-Nephelometry	WA	Jefferson	48.129444	-122.77944
530330017	Correlated Radiance Research M903-Nephelometry	WA	King	47.489722	-121.77333
530330023	Correlated Radiance Research M903-Nephelometry	WA	King	47.141111	-121.93306
530330024	Correlated Radiance Research M903-Nephelometry	WA	King	47.755	-122.2806
530330024	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.755	-122.2806
530330024	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.755	-122.2806
530330037	Correlated Radiance Research M903-Nephelometry	WA	King	47.613056	-122.20167
530330048	Correlated Radiance Research M903-Nephelometry	WA	King	47.6153	-122.32972
530330057	Correlated Radiance Research M903-Nephelometry	WA	King	47.563333	-122.3406
530330080	Correlated Radiance Research M903-Nephelometry	WA	King	47.570273	-122.3086
530330080	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.570273	-122.3086
530330080	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.570273	-122.3086
530331011	Correlated Radiance Research M903-Nephelometry	WA	King	47.5297	-122.3203
530332004	Correlated Radiance Research M903-Nephelometry	WA	King	47.386111	-122.2319
530332004	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.386111	-122.2319
530332004	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.386111	-122.2319
530351005	Correlated Radiance Research M903-Nephelometry	WA	Kitsap	47.6308	-122.6411
530370002	Correlated Radiance Research M903-Nephelometry	WA	Kittitas	46.996111	-120.54528
530370002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Kittitas	46.996111	-120.54528
530370002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Kittitas	46.996111	-120.54528
530450004	Correlated Radiance Research M903-Nephelometry	WA	Mason	47.227833	-123.11456
530450006	Correlated Radiance Research M903-Nephelometry	WA	Mason	47.3258	-123.1505
530470009	Correlated Radiance Research M903-Nephelometry	WA	Okanogan	48.364267	-120.12112
530470010	Correlated Radiance Research M903-Nephelometry	WA	Okanogan	48.477198	-120.19056
530510007	Correlated Radiance Research M903-Nephelometry	WA	Pend Oreille	48.3457	-117.2716
530530029	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.1864	-122.4517
530530029	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Pierce	47.1864	-122.4517
530530029	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Pierce	47.1864	-122.4517
530530031	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.2656	-122.3858
530531018	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.140556	-122.3003
530531022	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.204986	-122.34462
530531022	Met-One BAM W/PM2.5 SCC-Beta Attenuation	WA	Pierce	47.204986	-122.34462
530570015	Correlated Radiance Research M903-Nephelometry	WA	Skagit	48.410311	-122.33785
530590001	Correlated Radiance Research M903-Nephelometry	WA	Skamania	45.57	-122.2
530590004	Correlated Radiance Research M903-Nephelometry	WA	Skamania	45.648384	-121.94311
530610005	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	47.8064	-122.3167
530610020	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	48.2469	-121.6031
530611007	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	48.055556	-122.1758
530611007	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Snohomish	48.055556	-122.1758
530611007	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Snohomish	48.055556	-122.1758
530630016	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Spokane	47.660833	-117.35722
530630016	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Spokane	47.660833	-117.35722
530630047	Correlated Radiance Research M903-Nephelometry	WA	Spokane	47.701111	-117.425
530650002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Stevens	47.8886	-117.9886
530650002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Stevens	47.8886	-117.9886
530650004	Correlated Radiance Research M903-Nephelometry	WA	Stevens	48.544722	-117.90361
530670013	Correlated Radiance Research M903-Nephelometry	WA	Thurston	47.028889	-122.82083
530670013	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Thurston	47.028889	-122.82083
530710005	Correlated Radiance Research M903-Nephelometry	WA	Walla Walla	46.060833	-118.34833

530730015	Correlated Radiance Research M903-Nephelometry	WA	Whatcom	48.762778	-122.44028
530750003	Correlated Radiance Research M903-Nephelometry	WA	Whitman	46.724722	-117.17944
530750005	Correlated Radiance Research M903-Nephelometry	WA	Whitman	46.81728	-117.87403
530750006	Correlated Radiance Research M903-Nephelometry	WA	Whitman	47.233063	-117.36908
530770009	Correlated Radiance Research M903-Nephelometry	WA	Yakima	46.59678	-120.51222
530770015	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Yakima	46.385259	-120.31358
530770015	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Yakima	46.385259	-120.31358
540511002	PM2.5 SCC-FDMS-Gravimetric	WV	Marshall	39.91597	-80.734057
800020012	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MX	Baja California**	32.629167	-115.44694

(N. B.: The state abbreviations MX refers to Mexico.)
****Approximately 3 km south of the California border near Mexicali, Baja California, Mexico.**

Table B11. Atmospheric SC Geographic Information for 2007

AQS_ID	SC_Method	State	County	Latitude	Longitude
040130019	PM2.5 SCC-FDMS-Gravimetric	AZ	Maricopa	33.48385	-112.14257
040139812	PM2.5 SCC-FDMS-Gravimetric	AZ	Maricopa	33.4265	-112.11814
040139997	PM2.5 VSCC-FDMS-Gravimetric	AZ	Maricopa	33.503643	-112.095
060271023	PM2.5 VSCC-FDMS-Gravimetric	CA	Inyo	37.362194	-118.41654
080131001	PM2.5 VSCC-FDMS-Gravimetric	CO	Boulder	40.01297	-105.26719
080310002	PM2.5 SCC-FDMS-Gravimetric	CO	Denver	39.751185	-104.98762
080310013	PM2.5 SCC-FDMS-Gravimetric	CO	Denver	39.73858	-104.93996
080310025	PM2.5 SCC-FDMS-Gravimetric	CO	Denver	39.704407	-104.99808
080350004	PM2.5 SCC-FDMS-Gravimetric	CO	Douglas	39.53448	-105.07035
090010010	PM2.5 VSCC-FDMS-Gravimetric	CT	Fairfield	41.170833	-73.194722
090031003	PM2.5 VSCC-FDMS-Gravimetric	CT	Hartford	41.784722	-72.631667
090050004	PM2.5 VSCC-FDMS-Gravimetric	CT	Litchfield	41.64486	-73.07908
090090027	PM2.5 VSCC-FDMS-Gravimetric	CT	New Haven	41.301111	-72.902778
190170011	PM2.5 SCC-FDMS-Gravimetric	IA	Bremer	42.743056	-92.513056
190170011	PM2.5 VSCC-FDMS-Gravimetric	IA	Bremer	42.743056	-92.513056
190450021	PM2.5 VSCC-FDMS-Gravimetric	IA	Clinton	41.874972	-90.177444
191130037	PM2.5 SCC-FDMS-Gravimetric	IA	Linn	42.008333	-91.678611
191130037	PM2.5 VSCC-FDMS-Gravimetric	IA	Linn	42.008333	-91.678611
191370002	PM2.5 VSCC-FDMS-Gravimetric	IA	Montgomery	40.971211	-95.043868
191471002	PM2.5 VSCC-FDMS-Gravimetric	IA	Palo Alto	43.123333	-94.693333
191530030	PM2.5 VSCC-FDMS-Gravimetric	IA	Polk	41.603132	-93.643234
191630015	PM2.5 VSCC-FDMS-Gravimetric	IA	Scott	41.53	-90.5875
191630019	PM2.5 VSCC-FDMS-Gravimetric	IA	Scott	41.517778	-90.618611
191770006	PM2.5 VSCC-FDMS-Gravimetric	IA	Van Buren	40.695078	-92.006318
202090021	PM2.5 SCC-FDMS-Gravimetric	KS	Wyandotte	39.1175	-94.635556
260170014	PM2.5 SCC-FDMS-Gravimetric	MI	Bay	43.571389	-83.890833
260490021	PM2.5 SCC-FDMS-Gravimetric	MI	Genesee	43.04722	-83.670278
260650012	PM2.5 SCC-FDMS-Gravimetric	MI	Ingham	42.738611	-84.534722
260770008	PM2.5 SCC-FDMS-Gravimetric	MI	Kalamazoo	42.278056	-85.541944
260810020	PM2.5 SCC-FDMS-Gravimetric	MI	Kent	42.984167	-85.671389
261130001	PM2.5 SCC-FDMS-Gravimetric	MI	Missaukee	44.310556	-84.891944
261470005	PM2.5 SCC-FDMS-Gravimetric	MI	St Clair	42.953333	-82.456389
261530001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Schoolcraft	46.28888	-85.95027
261530001	PM2.5 SCC-FDMS-Gravimetric	MI	Schoolcraft	46.28888	-85.95027
261610008	PM2.5 SCC-FDMS-Gravimetric	MI	Washtenaw	42.240556	-83.599722
261630001	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.228611	-83.208333
261630033	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.306666	-83.148889
261630039	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.323333	-83.068611
290210005	PM2.5 SCC-FDMS-Gravimetric	MO	Buchanan	39.741667	-94.858333
290390001	PM2.5 SCC-FDMS-Gravimetric	MO	Cedar	37.695833	-94.0375
290470005	PM2.5 SCC-FDMS-Gravimetric	MO	Clay	39.303056	-94.376389
290470005	PM2.5 VSCC-FDMS-Gravimetric	MO	Clay	39.303056	-94.376389
290950034	PM2.5 SCC-FDMS-Gravimetric	MO	Jackson	39.104722	-94.570556
290990012	PM2.5 SCC-FDMS-Gravimetric	MO	Jefferson	38.437778	-90.361389
290990012	PM2.5 VSCC-FDMS-Gravimetric	MO	Jefferson	38.437778	-90.361389
291860005	PM2.5 SCC-FDMS-Gravimetric	MO	Ste Genevieve	37.896944	-90.422222
291893001	PM2.5 SCC-FDMS-Gravimetric	MO	St Louis	38.641389	-90.345833
330150014	PM2.5 VSCC-FDMS-Gravimetric	NH	Rockingham	43.075278	-70.748056
340010006	PM2.5 SCC-FDMS-Gravimetric	NJ	Atlantic	39.464967	-74.448902

340030004	PM2.5 SCC-FDMS-Gravimetric	NJ	Bergen	40.85435	-73.96825
340070003	PM2.5 SCC-FDMS-Gravimetric	NJ	Camden	39.92304	-75.09762
340110007	PM2.5 SCC-FDMS-Gravimetric	NJ	Cumberland	39.42227	-75.0252
340171003	PM2.5 SCC-FDMS-Gravimetric	NJ	Hudson	40.72545	-74.05229
340190001	PM2.5 SCC-FDMS-Gravimetric	NJ	Hunterdon	40.51527	-74.80666
340230006	PM2.5 SCC-FDMS-Gravimetric	NJ	Middlesex	40.47279	-74.42251
340390004	PM2.5 SCC-FDMS-Gravimetric	NJ	Union	40.64144	-74.20836
360810124	PM2.5 SCC-FDMS-Gravimetric	NY	Queens	40.7362	-73.82317
361010003	PM2.5 SCC-FDMS-Gravimetric	NY	Steuben	42.09071	-77.21025
371190041	PM2.5 SCC-FDMS-Gravimetric	NC	Mecklenburg	35.240278	-80.785556
390250022	PM2.5 SCC-FDMS-Gravimetric	OH	Clermont	39.082319	-84.144193
390350060	PM2.5 SCC-FDMS-Gravimetric	OH	Cuyahoga	41.493955	-81.678542
390490029	PM2.5 SCC-FDMS-Gravimetric	OH	Franklin	40.086667	-82.815556
390490034	PM2.5 SCC-FDMS-Gravimetric	OH	Franklin	40.0025	-82.994444
390610040	PM2.5 SCC-FDMS-Gravimetric	OH	Hamilton	39.128611	-84.504167
390810017	PM2.5 SCC-FDMS-Gravimetric	OH	Jefferson	40.366104	-80.615002
390853002	PM2.5 SCC-FDMS-Gravimetric	OH	Lake	41.7225	-81.241944
390933002	PM2.5 SCC-FDMS-Gravimetric	OH	Lorain	41.463056	-82.114444
391030003	PM2.5 SCC-FDMS-Gravimetric	OH	Medina	41.102778	-81.911667
391530017	PM2.5 SCC-FDMS-Gravimetric	OH	Summit	41.063333	-81.468611
400190297	PM2.5 VSCC-FDMS-Gravimetric	OK	Carter	34.257125	-97.474341
400270049	PM2.5 VSCC-FDMS-Gravimetric	OK	Cleveland	35.320105	-97.484099
400430860	PM2.5 VSCC-FDMS-Gravimetric	OK	Dewey	36.158414	-98.931973
400710602	PM2.5 VSCC-FDMS-Gravimetric	OK	Kay	36.705328	-97.087656
401091037	PM2.5 VSCC-FDMS-Gravimetric	OK	Oklahoma	35.614131	-97.475083
401210415	PM2.5 VSCC-FDMS-Gravimetric	OK	Pittsburg	34.90227	-95.784375
401430174	PM2.5 VSCC-FDMS-Gravimetric	OK	Tulsa	35.953708	-96.004975
401431127	PM2.5 VSCC-FDMS-Gravimetric	OK	Tulsa	36.204902	-95.976537
420070014	PM2.5 SCC-FDMS-Gravimetric	PA	Beaver	40.747778	-80.316667
420110010	PM2.5 SCC-FDMS-Gravimetric	PA	Berks	40.392694	-75.925222
420110011	PM2.5 SCC-FDMS-Gravimetric	PA	Berks	40.38335	-75.9686
420710007	PM2.5 SCC-FDMS-Gravimetric	PA	Lancaster	40.046667	-76.283333
420910013	PM2.5 SCC-FDMS-Gravimetric	PA	Montgomery	40.112222	-75.309167
421330008	PM2.5 SCC-FDMS-Gravimetric	PA	York	39.965278	-76.699444
450450008	PM2.5 SCC-FDMS-Gravimetric	SC	Greenville	34.838814	-82.402914
500030004	PM2.5 VSCC-FDMS-Gravimetric	VT	Bennington	42.88759	-73.24984
500070007	PM2.5 VSCC-FDMS-Gravimetric	VT	Chittenden	44.52839	-72.86884
500070014	PM2.5 VSCC-FDMS-Gravimetric	VT	Chittenden	44.4762	-73.2106
500210002	PM2.5 VSCC-FDMS-Gravimetric	VT	Rutland	43.608056	-72.982778
550090005	PM2.5 SCC-FDMS-Gravimetric	WI	Brown	44.516667	-87.993889
550250041	PM2.5 SCC-FDMS-Gravimetric	WI	Dane	43.100833	-89.357222
550270007	PM2.5 SCC-FDMS-Gravimetric	WI	Dodge	43.435	-88.527778
550590019	PM2.5 SCC-FDMS-Gravimetric	WI	Kenosha	42.504722	-87.8093
550710007	PM2.5 SCC-FDMS-Gravimetric	WI	Manitowoc	44.138611	-87.616111
550790026	PM2.5 SCC-FDMS-Gravimetric	WI	Milwaukee	43.061111	-87.9125
550790059	PM2.5 SCC-FDMS-Gravimetric	WI	Milwaukee	42.955	-87.934167
550890009	PM2.5 SCC-FDMS-Gravimetric	WI	Ozaukee	43.498056	-87.81
551091002	PM2.5 SCC-FDMS-Gravimetric	WI	St Croix	45.124444	-92.6625
551110007	PM2.5 SCC-FDMS-Gravimetric	WI	Sauk	43.435556	-89.680278
551198001	PM2.5 SCC-FDMS-Gravimetric	WI	Taylor	45.203889	-90.6
551330027	PM2.5 SCC-FDMS-Gravimetric	WI	Waukesha	43.020278	-88.215

Table B12. Raw SC Geographic Information for 2007

AQS_ID	SC_Method	State	County	Latitude	Longitude
010890014	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	AL	Madison	34.68767	-86.58637
010970003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	AL	Mobile	30.769722	-88.0875
011190002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Sumter	32.363889	-88.201944
021100004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	AK	Juneau	58.388889	-134.56556
040191030	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	31.87952	-110.99644
040191032	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	32.17295	-110.98005
040191034	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	32.38082	-111.12716
040191113	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	32.2518	-110.9653
040198031	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Pima	31.8273	-111.0113
040230004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Santa Cruz	31.337204	-110.93672
040278011	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Yuma	32.690278	-114.61444
050350005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Crittenden	35.196667	-90.191111
051191008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Pulaski	34.681667	-92.328333
051390006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Union	33.215	-92.668889
051430004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Washington	36.045751	-94.168978
051430005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Washington	36.179708	-94.116687
060070002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Butte	39.7575	-121.84222
060074001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Butte	39.321667	-121.66861
060111002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Colusa	39.203056	-122.01667
060152003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Del Norte	41.513803	-123.99628
060190008	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Fresno	36.781389	-119.77222
060193002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Fresno	36.60722	-119.53972
060210003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Glenn	39.533889	-122.19083
060232002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Humboldt	41.191944	-123.69028
060250005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Imperial	32.676111	-115.48333
060250006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Imperial	32.677778	-115.38972
060271018	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CA	Inyo	36.595556	-118.04917
060290014	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Kern	35.356111	-119.04028
060379034	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Los Angeles	34.813056	-118.88389
060410003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Marin	38.126944	-122.91389
060431001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Mariposa	37.745833	-119.60278
060610006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Placer	38.745833	-121.26528
060631006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Plumas	39.937222	-120.93778
060631007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Plumas	40.31	-121.21806
060631009	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Plumas	39.808333	-120.47167
060670006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.614167	-121.36694
060670010	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.558333	-121.49194
060670011	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.301944	-121.42222
060670012	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.683889	-121.16278
060730003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Diego	32.791389	-116.94167
060731002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Diego	33.127778	-117.07417
060731006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Diego	32.833333	-116.75
060731010	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Diego	32.701389	-117.15278
060771002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Joaquin	37.950833	-121.2675
060990005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Stanislaus	37.641667	-120.99361
061010003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sutter	39.138889	-121.6175
061072002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Tulare	36.332222	-119.29028
061110007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.21	-118.86944
061110009	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.404611	-118.81
061111004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.448333	-119.23028

061112002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.2775	-118.68472
061113001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.255	-119.1425
061130004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Yolo	38.533333	-121.775
080010006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Adams	39.825739	-104.93699
080130003	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Boulder	40.165833	-105.10111
080130003	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Boulder	40.165833	-105.10111
080770017	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Mesa	39.063625	-108.56102
080770017	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Mesa	39.063625	-108.56102
081230006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Weld	40.414722	-104.70611
081230006	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Weld	40.414722	-104.70611
081230006	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Weld	40.414722	-104.70611
090011123	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Fairfield	41.399167	-73.443056
090050005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Litchfield	41.821389	-73.297222
090090027	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.301111	-72.902778
090092123	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.550556	-73.043611
090110124	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New London	41.6	-72.07887
100010002	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	Kent	38.984722	-75.555556
100031012	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	New Castle	39.691944	-75.761667
100032004	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	New Castle	39.739444	-75.558056
100051002	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	Sussex	38.644444	-75.613056
120090007	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Brevard	28.053889	-80.628611
120090011	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Brevard	28.46938	-80.66683
120111002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Broward	26.082778	-80.237778
120210004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Collier	26.27	-81.711
120230002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Columbia	30.178056	-82.619444
120310098	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Duval	30.135556	-81.634167
120310100	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Duval	30.261	-81.454
120470015	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hamilton	30.411111	-82.783611
120570030	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.931944	-82.509722
120571065	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.892222	-82.538611
120573002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.96565	-82.2304
120590004	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Holmes	30.8475	-85.604444
120690003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Lake	29.014	-81.64119
120730012	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Leon	30.439722	-84.348333
120731005	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Leon	30.266944	-84.428333
120830003	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Marion	29.170278	-82.100833
120861016	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Miami-Dade	25.794167	-80.206111
120866001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Miami-Dade	25.471389	-80.483333
120952002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Orange	28.599444	-81.363056
120990009	Met-One BAM W/PM2.5 SCC-Beta Attenuation	FL	Palm Beach	26.731	-80.234
121030018	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Pinellas	27.785556	-82.74
121035002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Pinellas	28.09	-82.700833
121056006	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Polk	28.029167	-81.972222
121111002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	St Lucie	27.448889	-80.40833
121275002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Volusia	29.206667	-81.053056
160010010	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Ada	43.607568	-116.34843
160010010	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Ada	43.607568	-116.34843
160010017	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Ada	43.577603	-116.17816
160010017	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Ada	43.577603	-116.17816
160090010	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Benewah	47.316667	-116.57028
160090010	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Benewah	47.316667	-116.57028
160170005	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Bonner	48.2675	-116.57222
160170005	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Bonner	48.2675	-116.57222

160270008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Canyon	43.787147	-116.95958
160270008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.787147	-116.95958
160490003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Idaho	46.2094	-116.0275
160690013	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Nez Perce	46.3972	-116.8062
160690014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Nez Perce	46.335	-116.5359
170310001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.672745	-87.732457
170310022	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.689195	-87.539318
170310057	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.914733	-87.722725
170310076	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.751369	-87.713745
170314201	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	42.14	-87.799167
170316006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.874944	-87.825876
170434002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Du Page	41.771195	-88.152502
170650002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Hamilton	38.083942	-88.624942
170990007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	La Salle	41.293125	-89.049242
171110001	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Mc Henry	42.221421	-88.2421
171150013	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Macon	39.866944	-88.925556
171430037	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Peoria	40.698886	-89.584741
171630010	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	St Clair	38.612222	-90.160278
180431004	PM2.5 SCC-FDMS-Gravimetric	IN	Floyd	38.308056	-85.834167
180970078	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
180970081	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.788903	-86.214628
181270024	PM2.5 SCC-FDMS-Gravimetric	IN	Porter	41.6175	-87.199167
181410015	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IN	St Joseph	41.696692	-86.214683
181670018	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IN	Vigo	39.486111	-87.401389
191130037	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IA	Linn	42.008333	-91.678611
201070002	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	KS	Linn	38.135833	-94.731944
201950001	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	KS	Trego	38.770278	-99.763611
211110027	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.137222	-85.578333
211110043	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.233222	-85.825278
211110048	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.240556	-85.731667
211110051	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.060833	-85.896111
212218001	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	KY	Trigg	36.783889	-87.851944
230010011	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Androscoggin	44.089444	-70.215
230090103	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Hancock	44.37705	-68.2609
230190002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Penobscot	44.798849	-68.769745
230210004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Piscataquis	45.464926	-69.592266
240150003	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Cecil	39.701111	-75.86
240230002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Garrett	39.705916	-79.012028
240330030	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Prince Georges	39.055277	-76.878333
240430009	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Washington	39.565556	-77.721944
245100040	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Baltimore City	39.298056	-76.604722
260170014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Bay	43.571389	-83.890833
260170014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Bay	43.571389	-83.890833
260490021	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Genesee	43.04722	-83.670278
260490021	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Genesee	43.04722	-83.670278
260650012	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Ingham	42.738611	-84.534722
260650012	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Ingham	42.738611	-84.534722
260770008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Kalamazoo	42.278056	-85.541944
260770008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Kalamazoo	42.278056	-85.541944
260810020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Kent	42.984167	-85.671389
260810020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Kent	42.984167	-85.671389
261130001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Missaukee	44.310556	-84.891944
261130001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Missaukee	44.310556	-84.891944

261470005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	St Clair	42.953333	-82.456389
261470005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	St Clair	42.953333	-82.456389
261530001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Schoolcraft	46.28888	-85.95027
261530001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Schoolcraft	46.28888	-85.95027
261610008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Washtenaw	42.240556	-83.599722
261610008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Washtenaw	42.240556	-83.599722
261630001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Wayne	42.228611	-83.208333
261630001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.228611	-83.208333
261630033	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Wayne	42.306666	-83.148889
261630033	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.306666	-83.148889
261630038	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Wayne	42.335	-83.1097
261630038	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.335	-83.1097
261630039	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Wayne	42.323333	-83.068611
261630039	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.323333	-83.068611
295100085	PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 30 deg C	MO	St Louis City	38.6563	-90.1981
330050007	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NH	Cheshire	42.930556	-72.277778
330074002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NH	Coos	44.290556	-71.225
330090010	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NH	Grafton	43.62957	-72.226083
330110020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NH	Hillsborough	43.000556	-71.468056
330115001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NH	Hillsborough	42.861901	-71.878613
350359017	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Otero	33.15346	-105.7726
350559016	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Taos	36.4417	-105.5469
360010005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Albany	42.6424	-73.75453
360050110	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81616	-73.90207
360050112	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81564	-73.8851
360050113	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.80838	-73.92604
360290005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.87684	-78.80988
360291013	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.988443	-78.918589
360291014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.998125	-78.899264
360291015	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.981312	-78.906425
360296002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.968563	-78.943842
360310003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Essex	44.39309	-73.85892
360470052	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.64154	-74.01835
360470118	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.69457	-73.92778
360470121	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Kings	40.68577	-73.99243
360551007	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Monroe	43.146198	-77.54813
360590005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Nassau	40.7432	-73.58543
360610062	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72052	-74.00409
360610115	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.8489	-73.93068
360610117	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72333	-73.98231
360610119	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.81148	-73.95316
360610125	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.71163	-74.00514
360610128	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.73003	-73.98446
360610134	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.7139	-73.9956
360610135	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.81833	-73.95083
360632008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Niagara	43.08216	-79.00099
360652001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Oneida	43.0994	-75.22519
360710002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Orange	41.49947	-74.00973
360810120	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.72695	-73.89314
360810124	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.7362	-73.82317
360850111	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Richmond	40.57997	-74.19872
360850114	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Richmond	40.63136	-74.15717
361010003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Steuben	42.09071	-77.21025

361030009	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	NY	Suffolk	40.8275	-73.05694
361030010	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	NY	Suffolk	40.82686	-73.05734
361192004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Westchester	41.052	-73.76398
370010002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Alamance	36.089004	-79.407821
370210034	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Buncombe	35.609722	-82.350833
370330001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Caswell	36.307033	-79.467417
370350004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Catawba	35.728889	-81.365556
370510009	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Cumberland	35.041416	-78.953112
370570002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Davidson	35.814444	-80.2625
370670022	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.110556	-80.226667
370670030	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.026	-80.342
370710016	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Gaston	35.253056	-81.153333
370810013	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Guilford	36.109167	-79.801111
371110004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mc Dowell	35.687404	-81.993789
371170001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Martin	35.81069	-76.89782
371170001	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Martin	35.81069	-76.89782
371190041	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.240278	-80.785556
371190041	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.240278	-80.785556
371190042	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.151389	-80.866944
371190042	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.151389	-80.866944
371290002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	New Hanover	34.364167	-77.838611
371590021	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Rowan	35.551868	-80.395039
371730002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Swain	35.435509	-83.443697
371830014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Wake	35.856111	-78.574167
371910005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Wayne	35.369214	-77.993893
380070002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Billings	46.8943	-103.37853
380130004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Burke	48.64193	-102.4018
380150003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Burleigh	46.825425	-100.76821
380171004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Cass	46.933754	-96.85535
380250003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Dunn	47.3132	-102.5273
380530002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	McKenzie	47.5812	-103.2995
380570004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Mercer	47.298611	-101.76694
380650002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Oliver	47.185833	-101.42806
390010001	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Adams	38.795	-83.535278
390171004	Met-One BAM W/PM2.5 SCC-Beta Attenuation	OH	Butler	39.53	-84.3925
390230005	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Clark	39.928889	-83.809722
390490028	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Franklin	39.914167	-82.957222
390570005	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Greene	39.808056	-83.886944
390610006	Met-One BAM W/PM2.5 SCC-Beta Attenuation	OH	Hamilton	39.278499	-84.365974
390950024	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Lucas	41.644167	-83.546667
390990014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Mahoning	41.095868	-80.658426
391130032	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Montgomery	39.760278	-84.187778
391351001	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Preble	39.835556	-84.720833
391510020	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Stark	40.800556	-81.373333
391550007	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Trumbull	41.214167	-80.7875
391650007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	OH	Warren	39.427797	-84.202208
400979014	PM2.5 SCC-FDMS-Gravimetric	OK	Mayes	36.2284	-95.25
401159004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Ottawa	36.922222	-94.838889
401359015	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Sequoyah	35.58175	-94.829
410597001	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OR	Umatilla	45.667889	-118.64588
420010001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Adams	39.92	-77.31
420030008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.465556	-79.961111
420030064	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.323611	-79.868333

420050001	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Armstrong	40.814167	-79.565
420210011	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Cambria	40.309722	-78.915
420430401	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Dauphin	40.245	-76.844722
420450002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Delaware	39.835556	-75.3725
420950025	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Northampton	40.628056	-75.341111
421250005	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Washington	40.146667	-79.902222
440030002	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Kent	41.6156	-71.7199
440070022	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Providence	41.807949	-71.415
440090007	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Washington	41.491667	-71.427778
450190046	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Charleston	32.941023	-79.657187
450190046	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	SC	Charleston	32.941023	-79.657187
450250001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Chesterfield	34.615367	-80.198787
450290002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Colleton	33.009562	-80.965042
450370001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Edgefield	33.741693	-81.853633
450450009	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.901046	-82.31307
450450009	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.901046	-82.31307
450450010	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.869374	-82.422593
450630008	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Lexington	34.052805	-81.15495
450730001	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Oconee	34.805261	-83.2377
450770002	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Pickens	34.655221	-82.838653
460330132	Andersen BAM w/PM2.5 SCC-Beta Attenuation	SD	Custer	43.5578	-103.4839
460330132	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	SD	Custer	43.5578	-103.4839
460710001	Andersen BAM w/PM2.5 SCC-Beta Attenuation	SD	Jackson	43.74561	-101.94122
460710001	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	SD	Jackson	43.74561	-101.94122
461030020	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	SD	Pennington	44.087397	-103.27378
461030020	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	SD	Pennington	44.087397	-103.27378
470090011	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Blount	35.768333	-83.942222
470090101	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Blount	35.631389	-83.943611
470370036	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Davidson	36.118251	-86.873547
470450004	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Dyer	36.052778	-89.381944
470654002	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Hamilton	35.050928	-85.292975
470654002	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Hamilton	35.050928	-85.292975
470750003	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Haywood	35.468056	-89.167778
470931013	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Knox	35.98055	-83.93277
470990002	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Lawrence	35.116111	-87.47
471071002	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	McMinn	35.451111	-84.599167
471130006	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Madison	35.653651	-88.809084
471410004	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Putnam	36.205	-85.399444
471450004	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Roane	35.9386	-84.5438
471631007	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Sullivan	36.540654	-82.521667
471650007	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Sumner	36.297778	-86.652778
481419018	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.687006	-106.32294
510591005	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Fairfax	38.837517	-77.163231
510690010	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Frederick	39.282778	-78.081389
510870014	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Henrico	37.558333	-77.400278
511130003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Madison	38.521944	-78.436111
516500004	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Hampton City	37.003333	-76.399167
517700015	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Roanoke City	37.297178	-79.95557
560391012	Andersen BAM w/PM2.5 SCC-Beta Attenuation	WY	Teton	44.457778	-110.82917
720170003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PR	Barceloneta	18.436111	-66.580556
720170003	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 50 deg C	PR	Barceloneta	18.436111	-66.580556
720250003	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PR	Caguas	18.232499	-66.037023
720250003	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 50 deg C	PR	Caguas	18.232499	-66.037023

720330008	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PR	Catano	18.440028	-66.127076
720330009	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PR	Catano	18.449964	-66.149043
720570010	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PR	Guyama	17.959005	-66.166681
720590017	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PR	Guyanilla	18.025175	-66.770175
720590017	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 50 deg C	PR	Guyanilla	18.025175	-66.770175
800020012	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MX	Baja California**	32.629167	-115.44694

(N. B.: State abbreviations PR and MX refer to Puerto Rico and Mexico, respectively.)
****Approximately 3 km south of the California border near Mexicali, Baja California, Mexico.**

Appendix C

Table C1. Collocated Acceptable Geographic Information for 2004

AQS_ID	FRM_Method	SC_Method	State	County	Latitude	Longitude
010730023	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.553056	-86.815
010730023	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.553056	-86.815
010731005	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.331111	-87.003611
010731009	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.459722	-87.305556
010731009	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.459722	-87.305556
010731010	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.545278	-86.549167
010731010	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.545278	-86.549167
010732003	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.499722	-86.924167
010732003	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.499722	-86.924167
010732006	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.386389	-86.816667
010735002	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.704722	-86.669167
010735003	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.801667	-86.9425
060010007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Alameda	37.6875	-121.7842
060750005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Francisco	37.766	-122.3991
060811001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Mateo	37.4829	-122.2034
060850005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Santa Clara	37.3485	-121.895
060950004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Solano	38.1027	-122.2382
110010043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	DC	District Of Columbia	38.918889	-77.0125
120330004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Escambia	30.525	-87.204167
130210012	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Bibb	32.805244	-83.543628
130210012	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	GA	Bibb	32.805244	-83.543628
130890002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	De Kalb	33.688007	-84.290325
131350002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Gwinnett	33.963074	-84.069193
131350002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Gwinnett	33.963074	-84.069193
132150008	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Muscogee	32.521099	-84.944695
132150008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Muscogee	32.521099	-84.944695
132230003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Paulding	33.92855	-85.04548
132450091	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Richmond	33.433883	-82.022414
160010011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Ada	43.636111	-116.27028
160010011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Ada	43.636111	-116.27028
160090011	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Benewah	47.338702	-116.88461
160270004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Canyon	43.562401	-116.56323
160270004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.562401	-116.56323
160770011	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Power	42.9125	-112.53556

160790017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric	ID	Shoshone	47.536389	-116.23667
160790017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Shoshone	47.536389	-116.23667
160790017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Shoshone	47.536389	-116.23667
180030004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Allen	41.094722	-85.101944
180890022	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Lake	41.606667	-87.304722
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
181630012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Vanderburgh	38.021667	-87.569444
220511001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Jefferson	30.043333	-90.275
220710012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Orleans	29.994444	-90.102778
221210001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	West Baton Rouge	30.501944	-91.209722
245100040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MD	Baltimore City	39.298056	-76.604722
250051004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Bristol	41.6857	-71.1698
250095005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Essex	42.762778	-71.105833
250130016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Hampden	42.108889	-72.591389
250250042	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.329444	-71.082778
250250043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.362778	-71.054167
250270023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Worcester	42.265802	-71.794835
270370470	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Dakota	44.740751	-93.237293
270530963	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Hennepin	44.955396	-93.25827
271095008	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Olmsted	43.996908	-92.450366
271230871	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Ramsey	44.961451	-93.035894
271377551	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	St Louis	46.766667	-92.133056
271453052	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Stearns	45.549839	-94.13345
280110001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Bolivar	33.746056	-90.723028
280470008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Harrison	30.390139	-89.049722
280490018	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Hinds	32.296806	-90.188306
280810005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Lee	34.264917	-88.766222
300310013	BGI Models PQ200-VSCC or PQ200A-VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Gallatin	44.657778	-111.09083
350130017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	31.795833	-106.5575
350490020	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Santa Fe	35.671111	-105.95361
370210034	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Buncombe	35.609722	-82.350833
410090004	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Columbia	45.768056	-122.77194
410170120	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Deschutes	44.063904	-121.31258
410290133	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.314078	-122.87924
410294001	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.426389	-122.85083
410330114	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Josephine	42.434139	-123.34849

410350004	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Klamath	42.188889	-121.7225
410390060	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.026312	-123.08374
410391009	R & P Model 2000 PM2.5 Sampler w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.046696	-123.0177
410392013	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Lane	43.744352	-122.48052
410430009	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Linn	44.615648	-123.0916
410510080	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Multnomah	45.496667	-122.60222
410510246	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Multnomah	45.561301	-122.67878
410610119	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Union	45.338972	-117.9048
410650007	R & P Model 2000 PM2.5 Sampler w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Wasco	45.602399	-121.20335
410670111	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Washington	45.4702	-122.81585
410671003	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Washington	45.518294	-122.96705
470370023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Davidson	36.176326	-86.738902
471570038	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Shelby	35.184167	-89.930278
530050002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Benton	46.218611	-119.20556
530050002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Benton	46.218611	-119.20556
530110013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Clark	45.648333	-122.58694
530110013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Clark	45.648333	-122.58694
530251002	R & P Model 2000 PM2.5 Sampler w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Grant	47.130336	-119.2726
530272002	R & P Model 2000 PM2.5 Sampler w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Grays Harbor	46.972696	-123.83047
530330017	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	King	47.489722	-121.77333
530330017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.489722	-121.77333
530330017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.489722	-121.77333
530330023	R & P Model 2000 PM2.5 Sampler w/WINS	Correlated Radiance Research M903-Nephelometry	WA	King	47.141111	-121.93306
530330024	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	King	47.755	-122.2806
530330024	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.755	-122.2806
530330024	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.755	-122.2806
530330037	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	King	47.613056	-122.20167
530330057	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	King	47.563333	-122.3406
530330057	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.563333	-122.3406
530330057	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.563333	-122.3406
530330080	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	King	47.570273	-122.3086
530330080	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.570273	-122.3086
530330080	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.570273	-122.3086
530470009	R & P Model 2000 PM2.5 Sampler w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Okanogan	48.364267	-120.12112
530530029	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.1864	-122.4517
530530029	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Pierce	47.1864	-122.4517
530530029	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Pierce	47.1864	-122.4517
530611007	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	48.055556	-122.1758

530611007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Snohomish	48.055556	-122.1758
530611007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Snohomish	48.055556	-122.1758
530630016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Spokane	47.660833	-117.35722
530630016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Spokane	47.660833	-117.35722
530630016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Spokane	47.660833	-117.35722
530630016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Spokane	47.660833	-117.35722
530630047	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Spokane	47.701111	-117.425
530670013	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Thurston	47.028889	-122.82083
530730015	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Whatcom	48.762778	-122.44028
530770009	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Yakima	46.59678	-120.51222
551330027	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	WI	Waukesha	43.020278	-88.215

Table C2. Collocated Atmospheric Geographic Information for 2004

AQS_ID	FRM_Method	SC_Method	State	County	Latitude	Longitude
080310002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	CO	Denver	39.751185	-104.98762
191130037	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IA	Linn	42.008333	-91.678611
202090021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	KS	Wyandotte	39.1175	-94.635556
260050003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Allegan	42.767778	-86.148611
260490021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Genesee	43.04722	-83.670278
260650012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Ingham	42.738611	-84.534722
260770008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Kalamazoo	42.278056	-85.541944
260810020	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Kent	42.984167	-85.671389
261130001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Missaukee	44.310556	-84.891944
261450018	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Saginaw	43.508333	-83.968056
261470005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	St Clair	42.953333	-82.456389
261610008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Washtenaw	42.240556	-83.599722
261630001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.228611	-83.208333
261630033	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.306666	-83.148889
290390001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Cedar	37.695833	-94.0375
330150014	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 VSCC-FDMS-Gravimetric	NH	Rockingham	43.075278	-70.748056
390810017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Jefferson	40.366104	-80.615002
391530017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Summit	41.063333	-81.468611
420070014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Beaver	40.747778	-80.316667
420110009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Berks	40.320278	-75.926667
420710007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Lancaster	40.046667	-76.283333
420910013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Montgomery	40.112222	-75.309167
421330008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	York	39.965278	-76.699444
450450008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	SC	Greenville	34.838814	-82.402914
500030004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	VT	Bennington	42.88759	-73.24984
500070014	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	VT	Chittenden	44.4762	-73.2106
500210002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	VT	Rutland	43.608056	-72.982778
550090005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Brown	44.516667	-87.993889
550270007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	WI	Dodge	43.435	-88.527778
550270007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Dodge	43.435	-88.527778
550590019	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Kenosha	42.504722	-87.8093
550710007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Manitowoc	44.138611	-87.616111
550790026	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Milwaukee	43.061111	-87.9125
550790059	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Milwaukee	42.955	-87.934167
550890009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Ozaukee	43.498056	-87.81

551091002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	St Croix	45.124444	-92.6625
551110007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Sauk	43.435556	-89.680278
551198001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Taylor	45.203889	-90.6
551330027	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Waukesha	43.020278	-88.215

Table C3. Collocated Raw Geographic Information for 2004

AQS_ID	FRM_Method	SC_Method	State	County	Latitude	Longitude
010890014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	AL	Madison	34.68767	-86.58637
010970003	R & P Model 2025 PM2.5 Sequential w/WINS	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	AL	Mobile	30.769722	-88.0875
011190002	R & P Model 2025 PM2.5 Sequential w/WINS	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	AL	Sumter	32.363889	-88.201944
060070002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Butte	39.7575	-121.84222
060111002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Colusa	39.203056	-122.01667
060170011	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	El Dorado	38.945	-119.96889
060190008	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Fresno	36.781389	-119.77222
060250005	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Imperial	32.676111	-115.48333
060290014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Kern	35.356111	-119.04028
060290014	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Kern	35.356111	-119.04028
060610006	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Placer	38.745833	-121.26528
060631009	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Plumas	39.808333	-120.47167
060670006	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.614167	-121.36694
060670010	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.558333	-121.49194
060990005	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Stanislaus	37.641667	-120.99361
061010003	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sutter	39.138889	-121.6175
061072002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Tulare	36.332222	-119.29028
061072002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Tulare	36.332222	-119.29028
061112002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.2775	-118.68472
080010006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	CO	Adams	39.825739	-104.93699
080010006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Adams	39.825739	-104.93699
080010006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Adams	39.825739	-104.93699
081230006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	CO	Weld	40.414722	-104.70611
081230006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Weld	40.414722	-104.70611
081230006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Weld	40.414722	-104.70611
090010010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Fairfield	41.170833	-73.194722
090031018	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Hartford	41.760833	-72.670833
090090027	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.301111	-72.902778
090091123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.310833	-72.916944
090092123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.550556	-73.043611
100010002	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	Kent	38.984722	-75.555556
100032004	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	New Castle	39.739444	-75.558056
120111002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Broward	26.082778	-80.237778
120310098	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Duval	30.135556	-81.634167
120570030	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.931944	-82.509722

120730012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Leon	30.439722	-84.348333
120861016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Miami-Dade	25.794167	-80.206111
120866001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Miami-Dade	25.471389	-80.483333
120952002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Orange	28.599444	-81.363056
121030018	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Pinellas	27.785556	-82.74
160010011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Ada	43.636111	-116.27028
160050015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ID	Bannock	42.876725	-112.46035
160050015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Bannock	42.876725	-112.46035
160050015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Bannock	42.876725	-112.46035
160150002	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Boise	44.104498	-115.97239
160170005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Bonner	48.2675	-116.57222
160170005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Bonner	48.2675	-116.57222
160190013	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ID	Bonneville	43.518267	-112.02071
160190013	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Bonneville	43.518267	-112.02071
160190013	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Bonneville	43.518267	-112.02071
160270004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.562401	-116.56323
160290003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ID	Caribou	42.661298	-111.59144
160290003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Caribou	42.661298	-111.59144
160290003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Caribou	42.661298	-111.59144
160450001	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ID	Gem	43.856442	-116.51546
160490002	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Idaho	45.931389	-116.11528
160490003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Idaho	46.2094	-116.0275
160590004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ID	Lemhi	45.170556	-113.89222
160590004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Lemhi	45.170556	-113.89222
160590004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Lemhi	45.170556	-113.89222
160690012	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Nez Perce	46.404722	-116.96889
160790017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Shoshone	47.536389	-116.23667
170310022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.689195	-87.539318
170310057	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.914733	-87.722725
170310076	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.751369	-87.713745
170314007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	42.060278	-87.863333
170434002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Du Page	41.771195	-88.152502
171150013	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Macon	39.866944	-88.925556
171630010	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	St Clair	38.612222	-90.160278
180030004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Allen	41.094722	-85.101944
180431004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Floyd	38.308056	-85.834167
180892004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Lake	41.585278	-87.474444
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469

180970078	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Marion	39.811097	-86.114469
181270024	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Porter	41.6175	-87.199167
181411008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	St Joseph	41.693611	-86.236667
181630012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Vanderburgh	38.021667	-87.569444
181670018	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Vigo	39.486111	-87.401389
191130037	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IA	Linn	42.008333	-91.678611
191370002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	IA	Montgomery	40.971211	-95.043868
191370002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Montgomery	40.971211	-95.043868
191530030	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IA	Polk	41.603132	-93.643234
191630015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IA	Scott	41.53	-90.5875
191630015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC-FDMS-Gravimetric	IA	Scott	41.53	-90.5875
191770005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	IA	Van Buren	40.689167	-91.994444
191770005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Van Buren	40.689167	-91.994444
191770006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Van Buren	40.695078	-92.006318
201070002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	KS	Linn	38.135833	-94.731944
211110043	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.233222	-85.825278
211110048	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.240556	-85.731667
211110051	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.060833	-85.896111
230010011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Androscoggin	44.089444	-70.215
230050027	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Cumberland	43.661944	-70.265833
230090103	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Hancock	44.37705	-68.2609
230190002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Penobscot	44.798849	-68.769745
245100040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Baltimore City	39.298056	-76.604722
260650012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Ingham	42.738611	-84.534722
260810020	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Kent	42.984167	-85.671389
261130001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Missaukee	44.310556	-84.891944
261470005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	St Clair	42.953333	-82.456389
261610008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Washtenaw	42.240556	-83.599722
261630001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.228611	-83.208333
261630033	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.306666	-83.148889
295100085	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 30 deg C	MO	St Louis City	38.6563	-90.1981
330090008	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NH	Grafton	44.083889	-72.01
330110020	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NH	Hillsborough	43.000556	-71.468056
330115001	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NH	Hillsborough	42.861901	-71.878613
340070003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Camden	39.92304	-75.09762
340070003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Camden	39.92304	-75.09762
340230006	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Middlesex	40.47279	-74.42251

340390004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Union	40.64144	-74.20836
340390004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Union	40.64144	-74.20836
350439004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 VSCC-FDMS-Gravimetric	NM	Sandoval	35.615278	-106.72444
360010005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Albany	42.6424	-73.75453
360050110	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81616	-73.90207
360290005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.87684	-78.80988
360310003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Essex	44.39309	-73.85892
360551007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Monroe	43.146198	-77.54813
360556001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Monroe	43.161	-77.60357
360610062	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72052	-74.00409
360632008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Niagara	43.08216	-79.00099
360632008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NY	Niagara	43.08216	-79.00099
360710002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Orange	41.49947	-74.00973
360810124	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.7362	-73.82317
360810124	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NY	Queens	40.7362	-73.82317
370210034	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Buncombe	35.609722	-82.350833
370350004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Catawba	35.728889	-81.365556
370510009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Cumberland	35.041416	-78.953112
370570002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Davidson	35.814444	-80.2625
370570003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Davidson	35.77881	-80.30236
370670022	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.110556	-80.226667
370810013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Guilford	36.109167	-79.801111
371110004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mc Dowell	35.687404	-81.993789
371170001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Martin	35.81069	-76.89782
371190041	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.240278	-80.785556
371190042	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.151389	-80.866944
371290002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	New Hanover	34.364167	-77.838611
371730002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Swain	35.435509	-83.443697
371830014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Wake	35.856111	-78.574167
380070002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ND	Billings	46.8943	-103.37853
380070002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ND	Billings	46.8943	-103.37853
380130002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Burke	48.9904	-102.7815
380130002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ND	Burke	48.9904	-102.7815
380171004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ND	Cass	46.933754	-96.85535
380171004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ND	Cass	46.933754	-96.85535
380530002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ND	McKenzie	47.5812	-103.2995
380530002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ND	McKenzie	47.5812	-103.2995
380570004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	ND	Mercer	47.298611	-101.76694

380570004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ND	Mercer	47.298611	-101.76694
390171004	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	OH	Butler	39.53	-84.3925
390610040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Hamilton	39.128611	-84.504167
390933002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Lorain	41.463056	-82.114444
390950024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Lucas	41.644167	-83.546667
390990014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Mahoning	41.095868	-80.658426
391130031	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Montgomery	39.759444	-84.144444
391130032	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Montgomery	39.760278	-84.187778
391351001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Preble	39.835556	-84.720833
391510020	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Stark	40.800556	-81.373333
391530017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Summit	41.063333	-81.468611
400979014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	OK	Mayes	36.2284	-95.25
401091037	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Oklahoma	35.614131	-97.475083
401431127	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Tulsa	36.204902	-95.976537
420010001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Adams	39.92	-77.31
420030008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.465556	-79.961111
420030064	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.323611	-79.868333
420210011	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Cambria	40.309722	-78.915
420430401	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Dauphin	40.245	-76.844722
420950025	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Northampton	40.628056	-75.341111
450250001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Chesterfield	34.615367	-80.198787
450250001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Chesterfield	34.615367	-80.198787
450370001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Edgefield	33.741693	-81.853633
450450008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.838814	-82.402914
450450008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	SC	Greenville	34.838814	-82.402914
450450009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.901046	-82.31307
450730001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Oconee	34.805261	-83.2377
461030020	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	SD	Pennington	44.087397	-103.27378
470654002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Hamilton	35.050928	-85.292975
470931013	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Knox	35.98055	-83.93277
470990002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Lawrence	35.116111	-87.47
471650007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Sumner	36.297778	-86.652778
481130069	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Dallas	32.819952	-96.860082
481350003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Ector	31.826578	-102.34198
481390015	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Ellis	32.436944	-97.025
481410053	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.758516	-106.50105
481670014	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Galveston	29.263319	-94.856568
481670014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Galveston	29.263319	-94.856568

482010024	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.901111	-95.326944
482010024	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.901111	-95.326944
482010026	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.8025	-95.12555
482010026	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.8025	-95.12555
482011034	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.767993	-95.220576
482011035	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.733713	-95.257591
482011035	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.733713	-95.257591
482030002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Harrison	32.669003	-94.167449
482150043	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Hidalgo	26.226238	-98.291064
482450021	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	29.922778	-93.908889
482450021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	29.922778	-93.908889
482450022	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	29.863951	-94.317757
482570005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Kaufman	32.569167	-96.315833
482730314	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Kleberg	27.42694	-97.29861
483030001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Lubbock	33.590851	-101.84759
483390078	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Montgomery	30.3503	-95.425135
483390078	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Montgomery	30.3503	-95.425135
483611100	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Orange	30.194167	-93.866944
483750005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Potter	35.209963	-101.83192
484391006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TX	Tarrant	32.758889	-97.342222
490353006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 30 deg C	UT	Salt Lake	40.736389	-111.87222
490353006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 50 deg C	UT	Salt Lake	40.736389	-111.87222
510591005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Fairfax	38.837517	-77.163231
510870014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Henrico	37.558333	-77.400278
516500004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Hampton City	37.003333	-76.399167

Table C4. Collocated Acceptable Geographic Information for 2005

AQS_ID	FRM_Method	SC_Method	State	County	Latitude	Longitude
010730023	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.553056	-86.815
010730023	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.553056	-86.815
010730023	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC-FDMS-Gravimetric	AL	Jefferson	33.553056	-86.815
010730023	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC-FDMS-Gravimetric	AL	Jefferson	33.553056	-86.815
010731005	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.331111	-87.003611
010731009	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.459722	-87.305556
010731009	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.459722	-87.305556
010731010	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.545278	-86.549167
010732003	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.499722	-86.924167
010732003	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.499722	-86.924167
010732006	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.386389	-86.816667
010732006	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.386389	-86.816667
010735002	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.704722	-86.669167
010735002	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.704722	-86.669167
010735003	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.801667	-86.9425
060010007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Alameda	37.6875	-121.7842
060750005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Francisco	37.766	-122.3991
060811001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Mateo	37.4829	-122.2034
060850005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Santa Clara	37.3485	-121.895
060950004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Solano	38.1027	-122.2382
110010043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	DC	District Of Columbia	38.918889	-77.0125
120330004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Escambia	30.525	-87.204167
130210012	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Bibb	32.805244	-83.543628
130590002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Clarke	33.917925	-83.344512
130890002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	De Kalb	33.688007	-84.290325
131350002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Gwinnett	33.963074	-84.069193
132150008	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Muscogee	32.521099	-84.944695
132150008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Muscogee	32.521099	-84.944695
132230003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Paulding	33.92855	-85.04548
132450091	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Richmond	33.433883	-82.022414
160010011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Ada	43.636111	-116.27028
160010011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Ada	43.636111	-116.27028
160050015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Bannock	42.876725	-112.46035

160050015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Bannock	42.876725	-112.46035
160090011	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Benewah	47.338702	-116.88461
160270004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Canyon	43.562401	-116.56323
160270004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.562401	-116.56323
160590004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Lemhi	45.170556	-113.89222
160770011	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Power	42.9125	-112.53556
160790017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Shoshone	47.536389	-116.23667
160790017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Shoshone	47.536389	-116.23667
180030004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Allen	41.094722	-85.101944
180890022	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Lake	41.606667	-87.304722
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
181570008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Tippecanoe	40.431639	-86.8525
181630012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Vanderburgh	38.021667	-87.569444
220330009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	East Baton Rouge	30.461111	-91.176944
220511001	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Jefferson	30.043333	-90.275
220511001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Jefferson	30.043333	-90.275
220710012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Orleans	29.994444	-90.102778
221210001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	West Baton Rouge	30.501944	-91.209722
245100040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MD	Baltimore City	39.298056	-76.604722
250051004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Bristol	41.6857	-71.1698
250051004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Bristol	41.6857	-71.1698
250092006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Essex	42.474444	-70.9725
250092006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Essex	42.474444	-70.9725
250095005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Essex	42.762778	-71.105833
250095005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Essex	42.762778	-71.105833
250130016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Hampden	42.108889	-72.591389
250250042	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.329444	-71.082778
250250042	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.329444	-71.082778
250250043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.362778	-71.054167
250270023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Worcester	42.265802	-71.794835
250270023	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Worcester	42.265802	-71.794835
270370470	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Dakota	44.740751	-93.237293
270530963	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Hennepin	44.955396	-93.25827
271095008	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Olmsted	43.996908	-92.450366

271230871	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Ramsey	44.961451	-93.035894
271377551	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	St Louis	46.766667	-92.133056
271453052	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Stearns	45.549839	-94.13345
280110001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Bolivar	33.746056	-90.723028
280470008	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Harrison	30.390139	-89.049722
280470008	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Harrison	30.390139	-89.049722
280470008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Harrison	30.390139	-89.049722
280490018	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Hinds	32.296806	-90.188306
280810005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Lee	34.264917	-88.766222
300310013	BGI Models PQ200-VSCC or PQ200A-VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Gallatin	44.657778	-111.09083
300530018	BGI Models PQ200-VSCC or PQ200A-VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Lincoln	48.384167	-115.54806
300810007	BGI Models PQ200-VSCC or PQ200A-VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Ravalli	46.245633	-114.15886
310550019	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	NE	Douglas	41.247222	-95.975556
350130017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	31.795833	-106.5575
350250008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Lea	32.726656	-103.12292
350490020	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Santa Fe	35.671111	-105.95361
370210034	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Buncombe	35.609722	-82.350833
371190041	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.240278	-80.785556
371190042	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.151389	-80.866944
410090004	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Columbia	45.768056	-122.77194
410190002	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Douglas	43.22769	-123.3644
410290133	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.314078	-122.87924
410294001	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.426389	-122.85083
410330011	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Josephine	42.289722	-123.2325
410350004	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Klamath	42.188889	-121.7225
410390060	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.026312	-123.08374
410391009	R & P Model 2000 PM2.5 Sampler w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.046696	-123.0177
410392013	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Lane	43.744352	-122.48052
410430009	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Linn	44.615648	-123.0916
410510080	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Multnomah	45.496667	-122.60222
410510246	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Multnomah	45.561301	-122.67878
410610119	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Union	45.338972	-117.9048
410650007	R & P Model 2000 PM2.5 Sampler w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Wasco	45.602399	-121.20335
410670004	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Washington	45.52853	-122.97244
410670111	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Washington	45.4702	-122.81585
450450008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	SC	Greenville	34.838814	-82.402914
470370023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Davidson	36.176326	-86.738902
471570038	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Shelby	35.184167	-89.930278

481130069	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Dallas	32.819952	-96.860082
481350003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ector	31.826578	-102.34198
481390015	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ellis	32.436944	-97.025
481410037	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.768274	-106.5012
481410044	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.765673	-106.45523
481410053	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.758516	-106.50105
481410055	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.746752	-106.40281
481670014	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Galveston	29.263319	-94.856568
482010024	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.901111	-95.326944
482010026	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.8025	-95.12555
482011034	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.767993	-95.220576
482011035	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.733713	-95.257591
482030002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harrison	32.669003	-94.167449
482150043	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Hidalgo	26.226238	-98.291064
482450021	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	29.922778	-93.908889
482450022	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	29.863951	-94.317757
482570005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Kaufman	32.569167	-96.315833
482730314	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Kleberg	27.42694	-97.29861
483030001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Lubbock	33.590851	-101.84759
483390078	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Montgomery	30.3503	-95.425135
483611100	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Orange	30.194167	-93.866944
483750005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Potter	35.209963	-101.83192
483750320	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Potter	35.201588	-101.90924
484391006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Tarrant	32.758889	-97.342222
484530020	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Travis	30.483159	-97.872266
530050002	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Benton	46.218611	-119.20556
530050002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Benton	46.218611	-119.20556
530050002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Benton	46.218611	-119.20556
530110013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Clark	45.648333	-122.58694
530110013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Clark	45.648333	-122.58694
530330024	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	King	47.755	-122.2806
530330024	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.755	-122.2806
530330024	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.755	-122.2806
530330057	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	King	47.563333	-122.3406
530330057	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.563333	-122.3406
530330057	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.563333	-122.3406
530330080	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	King	47.570273	-122.3086
530330080	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.570273	-122.3086

530330080	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.570273	-122.3086
530470009	R & P Model 2000 PM2.5 Sampler w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Okanogan	48.364267	-120.12112
530530029	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.1864	-122.4517
530530029	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Pierce	47.1864	-122.4517
530530029	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Pierce	47.1864	-122.4517
530610005	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	47.8064	-122.3167
530610005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Snohomish	47.8064	-122.3167
530610005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Snohomish	47.8064	-122.3167
530611007	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	48.055556	-122.1758
530611007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Snohomish	48.055556	-122.1758
530611007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Snohomish	48.055556	-122.1758
530630016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Spokane	47.660833	-117.35722
530630016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Spokane	47.660833	-117.35722
530630047	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Spokane	47.701111	-117.425

Table C5. Collocated Atmospheric Geographic Information for 2005

AQS_ID	FRM_Method	SC_Method	State	County	Latitude	Longitude
010730023	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC-FDMS-Gravimetric	AL	Jefferson	33.553056	-86.815
010730023	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC-FDMS-Gravimetric	AL	Jefferson	33.553056	-86.815
040130019	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	AZ	Maricopa	33.48385	-112.14257
040139997	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	AZ	Maricopa	33.503643	-112.095
080310002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	CO	Denver	39.751185	-104.98762
080350004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	CO	Douglas	39.53448	-105.07035
191130037	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IA	Linn	42.008333	-91.678611
202090021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	KS	Wyandotte	39.1175	-94.635556
260050003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Allegan	42.767778	-86.148611
260170014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Bay	43.571389	-83.890833
260490021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Genesee	43.04722	-83.670278
260650012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Ingham	42.738611	-84.534722
260770008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Kalamazoo	42.278056	-85.541944
260810020	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Kent	42.984167	-85.671389
261130001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Missaukee	44.310556	-84.891944
261450018	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Saginaw	43.508333	-83.968056
261470005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	St Clair	42.953333	-82.456389
261610008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Washtenaw	42.240556	-83.599722
261630001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.228611	-83.208333
261630033	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.306666	-83.148889
261630039	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.323333	-83.068611
290390001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Cedar	37.695833	-94.0375
290470005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Clay	39.303056	-94.376389
290990012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Jefferson	38.437778	-90.361389
330090010	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 VSCC-FDMS-Gravimetric	NH	Grafton	43.62957	-72.226083
330110020	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 VSCC-FDMS-Gravimetric	NH	Hillsborough	43.000556	-71.468056
330150014	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 VSCC-FDMS-Gravimetric	NH	Rockingham	43.075278	-70.748056
371190041	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NC	Mecklenburg	35.240278	-80.785556
390250022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Clermont	39.082319	-84.144193
390810017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Jefferson	40.366104	-80.615002
391030003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Medina	41.102778	-81.911667
391530017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Summit	41.063333	-81.468611
401091037	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC-FDMS-Gravimetric	OK	Oklahoma	35.614131	-97.475083
401210415	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC-FDMS-Gravimetric	OK	Pittsburg	34.90227	-95.784375
401431127	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC-FDMS-Gravimetric	OK	Tulsa	36.204902	-95.976537

420070014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Beaver	40.747778	-80.316667
420110009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Berks	40.320278	-75.926667
420710007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Lancaster	40.046667	-76.283333
420910013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Montgomery	40.112222	-75.309167
421330008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	York	39.965278	-76.699444
450450008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	SC	Greenville	34.838814	-82.402914
500030004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	VT	Bennington	42.88759	-73.24984
500070014	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	VT	Chittenden	44.4762	-73.2106
500210002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	VT	Rutland	43.608056	-72.982778
550090005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Brown	44.516667	-87.993889
550270007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Dodge	43.435	-88.527778
550590019	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Kenosha	42.504722	-87.8093
550710007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Manitowoc	44.138611	-87.616111
550790026	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Milwaukee	43.061111	-87.9125
550790059	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Milwaukee	42.955	-87.934167
550890009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Ozaukee	43.498056	-87.81
551091002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	St Croix	45.124444	-92.6625
551110007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Sauk	43.435556	-89.680278
551198001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Taylor	45.203889	-90.6
551330027	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Waukesha	43.020278	-88.215

Table C6. Collocated Raw Geographic Information for 2005

AQS_ID	FRM_Method	SC_Method	State	County	Latitude	Longitude
010890014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	AL	Madison	34.68767	-86.58637
010970003	R & P Model 2025 PM2.5 Sequential w/WINS	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	AL	Mobile	30.76972	-88.0875
011190002	R & P Model 2025 PM2.5 Sequential w/WINS	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	AL	Sumter	32.36389	-88.201944
040230004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Santa Cruz	31.3372	-110.93672
050350005	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Crittenden	35.19667	-90.191111
051191005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Pulaski	34.67627	-92.337164
051390006	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Union	33.215	-92.668889
060070002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Butte	39.7575	-121.84222
060111002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Colusa	39.20306	-122.01667
060190008	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Fresno	36.78139	-119.77222
060250005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Imperial	32.67611	-115.48333
060290014	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Kern	35.35611	-119.04028
060610006	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Placer	38.74583	-121.26528
060631009	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Plumas	39.80833	-120.47167
060670006	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.61417	-121.36694
060670010	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.55833	-121.49194
060771002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Joaquin	37.95083	-121.2675
060990005	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Stanislaus	37.64167	-120.99361
061010003	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sutter	39.13889	-121.6175
061072002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Tulare	36.33222	-119.29028
061072002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Tulare	36.33222	-119.29028
061112002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.2775	-118.68472
061113001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.255	-119.1425
080010006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Adams	39.82574	-104.93699
080010006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Adams	39.82574	-104.93699
081230006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Weld	40.41472	-104.70611
081230006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Weld	40.41472	-104.70611
090010010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Fairfield	41.17083	-73.194722
090050005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Litchfield	41.82139	-73.297222
090090027	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.30111	-72.902778
090092123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.55056	-73.043611
100010002	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	Kent	38.98472	-75.555556
100032004	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	New Castle	39.73944	-75.558056
120111002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Broward	26.08278	-80.237778
120310098	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Duval	30.13556	-81.634167

120570030	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.93194	-82.509722
120573002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.96565	-82.2304
120730012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Leon	30.43972	-84.348333
120861016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Miami-Dade	25.79417	-80.206111
120866001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Miami-Dade	25.47139	-80.483333
120952002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Orange	28.59944	-81.363056
121030018	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Pinellas	27.78556	-82.74
121111002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	St Lucie	27.44889	-80.40833
160050015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Bannock	42.87673	-112.46035
160190013	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Bonneville	43.51827	-112.02071
160270008	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Canyon	43.78715	-116.95958
160270008	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.78715	-116.95958
160450001	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Gem	43.85644	-116.51546
160450001	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Gem	43.85644	-116.51546
160490003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Idaho	46.2094	-116.0275
160590004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Lemhi	45.17056	-113.89222
170310022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.6892	-87.539318
170310057	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.91473	-87.722725
170310076	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.75137	-87.713745
170314007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	42.06028	-87.863333
170434002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Du Page	41.7712	-88.152502
170650002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Hamilton	38.08394	-88.624942
170990007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	La Salle	41.29313	-89.049242
171110001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Mc Henry	42.22142	-88.2421
171150013	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Macon	39.86694	-88.925556
171430037	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Peoria	40.69889	-89.584741
171630010	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	St Clair	38.61222	-90.160278
180431004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Floyd	38.30806	-85.834167
180892004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Lake	41.58528	-87.474444
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.8111	-86.114469
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Marion	39.8111	-86.114469
181270024	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Porter	41.6175	-87.199167
181411008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	St Joseph	41.69361	-86.236667
181670018	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Vigo	39.48611	-87.401389
190450021	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Clinton	41.87497	-90.177444
191370002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Montgomery	40.97121	-95.043868
191471002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Palo Alto	43.12333	-94.693333
191530030	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IA	Polk	41.60313	-93.643234

191630015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC-FDMS-Gravimetric	IA	Scott	41.53	-90.5875
191630019	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Scott	41.51778	-90.618611
191770006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Van Buren	40.69508	-92.006318
201070002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	KS	Linn	38.13583	-94.731944
211110043	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.23322	-85.825278
211110048	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.24056	-85.731667
211110051	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.06083	-85.896111
230010011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Androscoggin	44.08944	-70.215
230050027	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Cumberland	43.66194	-70.265833
230090103	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Hancock	44.37705	-68.2609
230190002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Penobscot	44.79885	-68.769745
240330030	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Prince Georges	39.05528	-76.878333
240430009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Washington	39.56556	-77.721944
245100040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Baltimore City	39.29806	-76.604722
261630038	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.335	-83.1097
261630039	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.32333	-83.068611
295100085	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 30 deg C	MO	St Louis City	38.6563	-90.1981
320030298	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	NV	Clark	36.05222	-115.05694
320030298	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.05222	-115.05694
320030561	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.16399	-115.11393
320032002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.19111	-115.12222
330090010	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NH	Grafton	43.62957	-72.226083
330110020	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NH	Hillsborough	43.00056	-71.468056
330115001	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NH	Hillsborough	42.8619	-71.878613
340070003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Camden	39.92304	-75.09762
340070003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Camden	39.92304	-75.09762
340230006	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Middlesex	40.47279	-74.42251
340390004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Union	40.64144	-74.20836
340390004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NJ	Union	40.64144	-74.20836
350439004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 VSCC-FDMS-Gravimetric	NM	Sandoval	35.61528	-106.72444
360010005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Albany	42.6424	-73.75453
360050110	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81616	-73.90207
360290005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.87684	-78.80988
360310003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Essex	44.39309	-73.85892
360551007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Monroe	43.1462	-77.54813
360610062	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72052	-74.00409
360632008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Niagara	43.08216	-79.00099

360632008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NY	Niagara	43.08216	-79.00099
360710002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Orange	41.49947	-74.00973
360810124	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.7362	-73.82317
360810124	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NY	Queens	40.7362	-73.82317
370210034	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Buncombe	35.60972	-82.350833
370350004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Catawba	35.72889	-81.365556
370510009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Cumberland	35.04142	-78.953112
370570002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Davidson	35.81444	-80.2625
370570003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Davidson	35.77881	-80.30236
370670022	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.11056	-80.226667
370670030	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.026	-80.342
370810013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Guilford	36.10917	-79.801111
371110004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mc Dowell	35.6874	-81.993789
371170001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Martin	35.81069	-76.89782
371190041	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.24028	-80.785556
371190042	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.15139	-80.866944
371290002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	New Hanover	34.36417	-77.838611
371730002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Swain	35.43551	-83.443697
371830014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Wake	35.85611	-78.574167
380070002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Billings	46.8943	-103.37853
380070002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ND	Billings	46.8943	-103.37853
380130002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Burke	48.9904	-102.7815
380150003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Burleigh	46.82543	-100.76821
380171004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Cass	46.93375	-96.85535
380530002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	McKenzie	47.5812	-103.2995
380570004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Mercer	47.29861	-101.76694
390171004	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	OH	Butler	39.53	-84.3925
390230005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Clark	39.92889	-83.809722
390570005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Greene	39.80806	-83.886944
390610040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Hamilton	39.12861	-84.504167
390933002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Lorain	41.46306	-82.114444
390950024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Lucas	41.64417	-83.546667
390990014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Mahoning	41.09587	-80.658426
391130031	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Montgomery	39.75944	-84.144444
391130032	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Montgomery	39.76028	-84.187778
391351001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Preble	39.83556	-84.720833
391510020	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Stark	40.80056	-81.373333
391550007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Trumbull	41.21417	-80.7875

400979014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	OK	Mayes	36.2284	-95.25
420010001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Adams	39.92	-77.31
420030008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.46556	-79.961111
420030064	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.32361	-79.868333
420210011	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Cambria	40.30972	-78.915
420430401	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Dauphin	40.245	-76.844722
420950025	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Northampton	40.62806	-75.341111
440030002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Kent	41.6156	-71.7199
440070022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Providence	41.80795	-71.415
450250001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Chesterfield	34.61537	-80.198787
450370001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Edgefield	33.74169	-81.853633
450450009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.90105	-82.31307
450450009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.90105	-82.31307
450730001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Oconee	34.80526	-83.2377
460330132	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	SD	Custer	43.5578	-103.4839
460710001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	SD	Jackson	43.74561	-101.94122
461030020	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	SD	Pennington	44.0874	-103.27378
470090011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Blount	35.76833	-83.942222
470450004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Dyer	36.05278	-89.381944
470654002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Hamilton	35.05093	-85.292975
470990002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Lawrence	35.11611	-87.47
470990002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Lawrence	35.11611	-87.47
471071002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	McMinn	35.45111	-84.599167
471130006	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Madison	35.65365	-88.809084
471130006	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Madison	35.65365	-88.809084
471251010	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Montgomery	36.625	-87.169167
471450004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Roane	35.9386	-84.5438
471450004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Roane	35.9386	-84.5438
471631007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Sullivan	36.54065	-82.521667
471650007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Sumner	36.29778	-86.652778
471650007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Sumner	36.29778	-86.652778
490050004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	UT	Cache	41.73111	-111.8375
490353006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	UT	Salt Lake	40.73639	-111.87222
490570002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	UT	Weber	41.20639	-111.97472
510591005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Fairfax	38.83752	-77.163231
510870014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Henrico	37.55833	-77.400278
516500004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Hampton City	37.00333	-76.399167

Table C7. Collocated Acceptable Geographic Information for 2006

AQS_ID	FRM_Method	SC_Method	State	County	Latitude	Longitude
010730023	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.553056	-86.815
010730023	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.553056	-86.815
010730023	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC-FDMS-Gravimetric	AL	Jefferson	33.553056	-86.815
010730023	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC-FDMS-Gravimetric	AL	Jefferson	33.553056	-86.815
010731005	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.331111	-87.003611
010731005	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.331111	-87.003611
010731009	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.459722	-87.305556
010731009	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.459722	-87.305556
010731010	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.545278	-86.549167
010731010	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.545278	-86.549167
010732003	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.499722	-86.924167
010732003	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.499722	-86.924167
010732006	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.386389	-86.816667
010735002	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.704722	-86.669167
010735002	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.704722	-86.669167
010735003	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.801667	-86.9425
010735003	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.801667	-86.9425
060010007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Alameda	37.6875	-121.7842
060750005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Francisco	37.766	-122.3991
060811001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Mateo	37.4829	-122.2034
060850005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Santa Clara	37.3485	-121.895
060950004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Solano	38.1027	-122.2382
110010043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	DC	District Of Columbia	38.918889	-77.0125
120330004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Escambia	30.525	-87.204167
130210012	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Bibb	32.805244	-83.543628
130590002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Clarke	33.917925	-83.344512
130890002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	De Kalb	33.688007	-84.290325
131350002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Gwinnett	33.963074	-84.069193
132150008	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Muscogee	32.521099	-84.944695
132150008	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Muscogee	32.521099	-84.944695
132230003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Paulding	33.92855	-85.04548
132450091	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Richmond	33.433883	-82.022414
160010011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Ada	43.636111	-116.27028

160010011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Ada	43.636111	-116.27028
160050015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Bannock	42.876725	-112.46035
160050015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Bannock	42.876725	-112.46035
160090011	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Benewah	47.338702	-116.88461
160270004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Canyon	43.562401	-116.56323
160270004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Canyon	43.562401	-116.56323
160270004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.562401	-116.56323
160270004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.562401	-116.56323
160790017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Shoshone	47.536389	-116.23667
160790017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Shoshone	47.536389	-116.23667
180030004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Allen	41.094722	-85.101944
180890022	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Lake	41.606667	-87.304722
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
181570008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Tippecanoe	40.431639	-86.8525
181630012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Vanderburgh	38.021667	-87.569444
220330009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	East Baton Rouge	30.461111	-91.176944
220511001	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Jefferson	30.043333	-90.275
220511001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Jefferson	30.043333	-90.275
220710012	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Orleans	29.994444	-90.102778
221210001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	West Baton Rouge	30.501944	-91.209722
245100040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MD	Baltimore City	39.298056	-76.604722
250051004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Bristol	41.6857	-71.1698
250092006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Essex	42.474444	-70.9725
250095005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Essex	42.762778	-71.105833
250130016	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Hampden	42.108889	-72.591389
250130016	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Hampden	42.108889	-72.591389
250250042	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.329444	-71.082778
250250043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.362778	-71.054167
250250043	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.362778	-71.054167
250270023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Worcester	42.265802	-71.794835
250270023	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Worcester	42.265802	-71.794835
270370470	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Dakota	44.740751	-93.237293
270530963	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Hennepin	44.955396	-93.25827
271095008	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Olmsted	43.996908	-92.450366

271230871	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Ramsey	44.961451	-93.035894
271377551	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	St Louis	46.766667	-92.133056
271453052	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Stearns	45.549839	-94.13345
280110001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Bolivar	33.746056	-90.723028
280470008	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Harrison	30.390139	-89.049722
280470008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Harrison	30.390139	-89.049722
280490010	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Hinds	32.385583	-90.140917
280490018	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Hinds	32.296806	-90.188306
280590006	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Jackson	30.378194	-88.533944
280590006	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Jackson	30.378194	-88.533944
280750003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Lauderdale	32.364389	-88.731444
280810005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Lee	34.264917	-88.766222
290210005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Buchanan	39.741667	-94.858333
290390001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Cedar	37.695833	-94.0375
290470005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Clay	39.303056	-94.376389
290950034	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	MO	Jackson	39.104722	-94.570556
290990012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Jefferson	38.437778	-90.361389
295100085	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 30 deg C	MO	St Louis City	38.6563	-90.1981
300310013	BGI Models PQ200-VSCC or PQ200A-VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Gallatin	44.657778	-111.09083
300530018	BGI Models PQ200-VSCC or PQ200A-VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Lincoln	48.384167	-115.54806
300810007	BGI Models PQ200-VSCC or PQ200A-VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Ravalli	46.245633	-114.15886
310550019	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	NE	Douglas	41.247222	-95.975556
340070003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Camden	39.92304	-75.09762
340070003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Camden	39.92304	-75.09762
340171003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Hudson	40.72545	-74.05229
340171003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Hudson	40.72545	-74.05229
340230006	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Middlesex	40.47279	-74.42251
340390004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Union	40.64144	-74.20836
340390004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Union	40.64144	-74.20836
340392003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Union	40.60607	-74.27498
340392003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NJ	Union	40.60607	-74.27498
350130017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	31.795833	-106.5575
350250008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Lea	32.726656	-103.12292
350490020	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Santa Fe	35.671111	-105.95361
360010005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Albany	42.6424	-73.75453
360050110	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81616	-73.90207
360290005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.87684	-78.80988
360310003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Essex	44.39309	-73.85892

360551007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Monroe	43.146198	-77.54813
360610062	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72052	-74.00409
360632008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Niagara	43.08216	-79.00099
360710002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Orange	41.49947	-74.00973
360810124	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.7362	-73.82317
361010003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Steuben	42.09071	-77.21025
370210034	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Buncombe	35.609722	-82.350833
370330001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Caswell	36.307033	-79.467417
370350004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Catawba	35.728889	-81.365556
370510009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Cumberland	35.041416	-78.953112
370570002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Davidson	35.814444	-80.2625
370670030	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.026	-80.342
370710016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Gaston	35.253056	-81.153333
370810013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Guilford	36.109167	-79.801111
371110004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mc Dowell	35.687404	-81.993789
371170001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Martin	35.81069	-76.89782
371190041	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.240278	-80.785556
371190042	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.151389	-80.866944
371290002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	New Hanover	34.364167	-77.838611
371590021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Rowan	35.551868	-80.395039
371730002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Swain	35.435509	-83.443697
371830014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Wake	35.856111	-78.574167
371910005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Wayne	35.369214	-77.993893
410190002	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Douglas	43.22769	-123.3644
410290133	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.314078	-122.87924
410294001	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.426389	-122.85083
410330114	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Josephine	42.434139	-123.34849
410350004	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Klamath	42.188889	-121.7225
410390060	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.026312	-123.08374
410391009	R & P Model 2000 PM2.5 Sampler w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.046696	-123.0177
410392013	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Lane	43.744352	-122.48052
410510080	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Multnomah	45.496667	-122.60222
410510246	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Multnomah	45.561301	-122.67878
410590121	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Umatilla	45.651944	-118.81861
410610119	R & P Model 2000 PM2.5 Sampler w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Union	45.338972	-117.9048
410610119	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Union	45.338972	-117.9048
410670004	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Washington	45.52853	-122.97244

420030008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.465556	-79.961111
420030064	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.323611	-79.868333
421010004	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Philadelphia	40.008889	-75.097778
421010004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Philadelphia	40.008889	-75.097778
421010024	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Philadelphia	40.076389	-75.011944
421010024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Philadelphia	40.076389	-75.011944
450450008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	SC	Greenville	34.838814	-82.402914
470370023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Davidson	36.176326	-86.738902
471570024	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Shelby	35.150833	-90.041389
471570038	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Shelby	35.184167	-89.930278
481130069	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Dallas	32.819952	-96.860082
481350003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ector	31.826578	-102.34198
481350003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ector	31.826578	-102.34198
481390016	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ellis	32.481944	-97.0275
481410037	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.768274	-106.5012
481410044	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.765673	-106.45523
481410053	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.758516	-106.50105
482010024	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.901111	-95.326944
482011035	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.733713	-95.257591
482030002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harrison	32.669003	-94.167449
482030002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harrison	32.669003	-94.167449
482150043	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Hidalgo	26.226238	-98.291064
482150043	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Hidalgo	26.226238	-98.291064
482450021	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	29.922778	-93.908889
483750320	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Potter	35.201588	-101.90924
484391006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Tarrant	32.758889	-97.342222
484530020	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Travis	30.483159	-97.872266
490050004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	UT	Cache	41.731111	-111.8375
490353006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	UT	Salt Lake	40.736389	-111.87222
490494001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	UT	Utah	40.341389	-111.71361
490570002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	UT	Weber	41.206389	-111.97472
530330024	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	King	47.755	-122.2806
530330024	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.755	-122.2806
530330024	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.755	-122.2806
530330057	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	King	47.563333	-122.3406
530330057	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.563333	-122.3406
530330057	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.563333	-122.3406
530330080	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	King	47.570273	-122.3086

530330080	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.570273	-122.3086
530530029	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.1864	-122.4517
530530029	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Pierce	47.1864	-122.4517
530530029	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Pierce	47.1864	-122.4517
530610005	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	47.8064	-122.3167
530610005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Snohomish	47.8064	-122.3167
530610005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Snohomish	47.8064	-122.3167
530610020	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	48.2469	-121.6031
530611007	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	48.055556	-122.1758
530611007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Snohomish	48.055556	-122.1758
530611007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Snohomish	48.055556	-122.1758
530630016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Spokane	47.660833	-117.35722
530630016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Spokane	47.660833	-117.35722
540511002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	WV	Marshall	39.91597	-80.734057

Table C8. Collocated Atmospheric Geographic Information for 2006

AQS_ID	FRM_Method	SC_Method	State	County	Latitude	Longitude
010730023	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC-FDMS-Gravimetric	AL	Jefferson	33.553056	-86.815
010730023	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC-FDMS-Gravimetric	AL	Jefferson	33.553056	-86.815
040130019	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	AZ	Maricopa	33.48385	-112.14257
040139997	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	AZ	Maricopa	33.503643	-112.095
080310002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	CO	Denver	39.751185	-104.98762
080350004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	CO	Douglas	39.53448	-105.07035
080350004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	CO	Douglas	39.53448	-105.07035
090010010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	CT	Fairfield	41.170833	-73.194722
090050004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	CT	Litchfield	41.64486	-73.07908
090090027	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	CT	New Haven	41.301111	-72.902778
190170011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IA	Bremer	42.743056	-92.513056
190450021	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Clinton	41.874972	-90.177444
191130037	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IA	Linn	42.008333	-91.678611
191370002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Montgomery	40.971211	-95.043868
191471002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Palo Alto	43.123333	-94.693333
191530030	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IA	Polk	41.603132	-93.643234
191630015	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Scott	41.53	-90.5875
191630015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC-FDMS-Gravimetric	IA	Scott	41.53	-90.5875
191630019	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Scott	41.517778	-90.618611
191770006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Van Buren	40.695078	-92.006318
202090021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	KS	Wyandotte	39.1175	-94.635556
260050003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Allegan	42.767778	-86.148611
260170014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Bay	43.571389	-83.890833
260490021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Genesee	43.04722	-83.670278
260650012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Ingham	42.738611	-84.534722
260770008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Kalamazoo	42.278056	-85.541944
260810020	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Kent	42.984167	-85.671389
261130001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Missaukee	44.310556	-84.891944
261470005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	St Clair	42.953333	-82.456389
261610008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Washtenaw	42.240556	-83.599722
261630001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.228611	-83.208333
261630033	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.306666	-83.148889
261630039	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.323333	-83.068611
290210005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Buchanan	39.741667	-94.858333
290390001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Cedar	37.695833	-94.0375

290470005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Clay	39.303056	-94.376389
290950034	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MO	Jackson	39.104722	-94.570556
290950034	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Jackson	39.104722	-94.570556
290990012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Jefferson	38.437778	-90.361389
330090010	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 VSCC-FDMS-Gravimetric	NH	Grafton	43.62957	-72.226083
330150014	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 VSCC-FDMS-Gravimetric	NH	Rockingham	43.075278	-70.748056
340070003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC-FDMS-Gravimetric	NJ	Camden	39.92304	-75.09762
340070003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NJ	Camden	39.92304	-75.09762
340171003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC-FDMS-Gravimetric	NJ	Hudson	40.72545	-74.05229
340171003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NJ	Hudson	40.72545	-74.05229
340230006	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NJ	Middlesex	40.47279	-74.42251
340390004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC-FDMS-Gravimetric	NJ	Union	40.64144	-74.20836
340390004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NJ	Union	40.64144	-74.20836
360632008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NY	Niagara	43.08216	-79.00099
360810124	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NY	Queens	40.7362	-73.82317
361010003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NY	Steuben	42.09071	-77.21025
371190041	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NC	Mecklenburg	35.240278	-80.785556
390250022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Clermont	39.082319	-84.144193
390350060	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Cuyahoga	41.493955	-81.678542
390610040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Hamilton	39.128611	-84.504167
390810017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Jefferson	40.366104	-80.615002
390853002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Lake	41.7225	-81.241944
390933002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Lorain	41.463056	-82.114444
391030003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Medina	41.102778	-81.911667
391530017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Summit	41.063333	-81.468611
401091037	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC-FDMS-Gravimetric	OK	Oklahoma	35.614131	-97.475083
401210415	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC-FDMS-Gravimetric	OK	Pittsburg	34.90227	-95.784375
401431127	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC-FDMS-Gravimetric	OK	Tulsa	36.204902	-95.976537
420070014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Beaver	40.747778	-80.316667
420110009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Berks	40.320278	-75.926667
420110010	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Berks	40.392694	-75.925222
420710007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Lancaster	40.046667	-76.283333
420910013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Montgomery	40.112222	-75.309167
421330008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	York	39.965278	-76.699444
450450008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	SC	Greenville	34.838814	-82.402914
500030004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	VT	Bennington	42.88759	-73.24984
500070014	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	VT	Chittenden	44.4762	-73.2106
500210002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	VT	Rutland	43.608056	-72.982778

550090005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Brown	44.516667	-87.993889
550270007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Dodge	43.435	-88.527778
550590019	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Kenosha	42.504722	-87.8093
550710007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Manitowoc	44.138611	-87.616111
550790026	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Milwaukee	43.061111	-87.9125
550790059	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Milwaukee	42.955	-87.934167
550890009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Ozaukee	43.498056	-87.81
551091002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	St Croix	45.124444	-92.6625
551110007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Sauk	43.435556	-89.680278
551198001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Taylor	45.203889	-90.6
551330027	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Waukesha	43.020278	-88.215

Table C9. Collocated Raw Geographic Information for 2006

AQS_ID	FRM_Method	SC_Method	State	County	Latitude	Longitude
010890014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	AL	Madison	34.68767	-86.58637
010970003	R & P Model 2025 PM2.5 Sequential w/WINS	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	AL	Mobile	30.769722	-88.0875
010970003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	AL	Mobile	30.769722	-88.0875
011190002	R & P Model 2025 PM2.5 Sequential w/WINS	AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	AL	Sumter	32.363889	-88.201944
021100004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	AK	Juneau	58.388889	-134.56556
040230004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Santa Cruz	31.337204	-110.93672
050350005	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Crittenden	35.196667	-90.191111
051191005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Pulaski	34.676268	-92.337164
051390006	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Union	33.215	-92.668889
060070002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Butte	39.7575	-121.84222
060111002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Colusa	39.203056	-122.01667
060190008	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Fresno	36.781389	-119.77222
060190008	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Fresno	36.781389	-119.77222
060250005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Imperial	32.676111	-115.48333
060250005	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Imperial	32.676111	-115.48333
060290014	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Kern	35.356111	-119.04028
060610006	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Placer	38.745833	-121.26528
060631009	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Plumas	39.808333	-120.47167
060670006	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.614167	-121.36694
060670010	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.558333	-121.49194
060771002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Joaquin	37.950833	-121.2675
060990005	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Stanislaus	37.641667	-120.99361
061010003	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sutter	39.138889	-121.6175
061072002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Tulare	36.332222	-119.29028
061072002	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Tulare	36.332222	-119.29028
061110009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.404611	-118.81
061112002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.2775	-118.68472
061113001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.255	-119.1425
080010006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Adams	39.825739	-104.93699
080010006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Adams	39.825739	-104.93699
080130003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Boulder	40.165833	-105.10111
080130003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Boulder	40.165833	-105.10111
080130003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Boulder	40.165833	-105.10111
080770017	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Mesa	39.063625	-108.56102
080770017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Mesa	39.063625	-108.56102

080770017	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Mesa	39.063625	-108.56102
080770017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Mesa	39.063625	-108.56102
080770017	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Mesa	39.063625	-108.56102
081230006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Weld	40.414722	-104.70611
081230006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Weld	40.414722	-104.70611
090010010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Fairfield	41.170833	-73.194722
090011123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Fairfield	41.399167	-73.443056
090050005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Litchfield	41.821389	-73.297222
090090027	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.301111	-72.902778
090090027	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.301111	-72.902778
090092123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.550556	-73.043611
100010002	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	Kent	38.984722	-75.555556
100031012	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	New Castle	39.691944	-75.761667
100032004	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	New Castle	39.739444	-75.558056
100051002	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	Sussex	38.644444	-75.613056
120111002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Broward	26.082778	-80.237778
120310098	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Duval	30.135556	-81.634167
120570030	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.931944	-82.509722
120573002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.96565	-82.2304
120730012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Leon	30.439722	-84.348333
120861016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Miami-Dade	25.794167	-80.206111
120866001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Miami-Dade	25.471389	-80.483333
120952002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Orange	28.599444	-81.363056
121030018	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Pinellas	27.785556	-82.74
121111002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	St Lucie	27.448889	-80.40833
160010010	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Ada	43.607568	-116.34843
160010010	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Ada	43.607568	-116.34843
160090010	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Benewah	47.316667	-116.57028
160090010	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Benewah	47.316667	-116.57028
160490003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Idaho	46.2094	-116.0275
170310022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.689195	-87.539318
170310057	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.914733	-87.722725
170310076	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.751369	-87.713745
170314007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	42.060278	-87.863333
170434002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Du Page	41.771195	-88.152502
170650002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Hamilton	38.083942	-88.624942
170990007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	La Salle	41.293125	-89.049242
171110001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Mc Henry	42.221421	-88.2421

171150013	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Macon	39.866944	-88.925556
171430037	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Peoria	40.698886	-89.584741
171630010	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	St Clair	38.612222	-90.160278
180431004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Floyd	38.308056	-85.834167
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Marion	39.811097	-86.114469
181270024	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Porter	41.6175	-87.199167
181410015	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IN	St Joseph	41.696692	-86.214683
181411008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	St Joseph	41.693611	-86.236667
181670018	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IN	Vigo	39.486111	-87.401389
181670018	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Vigo	39.486111	-87.401389
201070002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	KS	Linn	38.135833	-94.731944
211110043	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.233222	-85.825278
211110048	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.240556	-85.731667
211110051	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.060833	-85.896111
230010011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Androscoggin	44.089444	-70.215
230050027	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Cumberland	43.661944	-70.265833
230090103	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Hancock	44.37705	-68.2609
230190002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Penobscot	44.798849	-68.769745
240150003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Cecil	39.701111	-75.86
240330030	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Prince Georges	39.055277	-76.878333
240430009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Washington	39.565556	-77.721944
245100040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Baltimore City	39.298056	-76.604722
260170014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Bay	43.571389	-83.890833
260490021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Genesee	43.04722	-83.670278
260650012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Ingham	42.738611	-84.534722
260770008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Kalamazoo	42.278056	-85.541944
260810020	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Kent	42.984167	-85.671389
261130001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Missaukee	44.310556	-84.891944
261470005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	St Clair	42.953333	-82.456389
261610008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Washtenaw	42.240556	-83.599722
261630001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.228611	-83.208333
261630033	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.306666	-83.148889
261630038	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.335	-83.1097
261630039	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.323333	-83.068611
295100085	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 30 deg C	MO	St Louis City	38.6563	-90.1981
320030298	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.052222	-115.05694

320030561	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.163994	-115.11393
320032002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.191111	-115.12222
330090010	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NH	Grafton	43.62957	-72.226083
350439004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 VSCC-FDMS-Gravimetric	NM	Sandoval	35.615278	-106.72444
360010005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Albany	42.6424	-73.75453
360050110	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81616	-73.90207
360290005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.87684	-78.80988
360310003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Essex	44.39309	-73.85892
360551007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Monroe	43.146198	-77.54813
360610062	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72052	-74.00409
360632008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Niagara	43.08216	-79.00099
360710002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Orange	41.49947	-74.00973
360810124	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.7362	-73.82317
361010003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Steuben	42.09071	-77.21025
370210034	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Buncombe	35.609722	-82.350833
370330001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Caswell	36.307033	-79.467417
370350004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Catawba	35.728889	-81.365556
370510009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Cumberland	35.041416	-78.953112
370570002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Davidson	35.814444	-80.2625
370670022	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.110556	-80.226667
370670030	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.026	-80.342
370710016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Gaston	35.253056	-81.153333
370810013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Guilford	36.109167	-79.801111
371110004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mc Dowell	35.687404	-81.993789
371170001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Martin	35.81069	-76.89782
371190041	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.240278	-80.785556
371190042	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.151389	-80.866944
371290002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	New Hanover	34.364167	-77.838611
371590021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Rowan	35.551868	-80.395039
371730002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Swain	35.435509	-83.443697
371830014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Wake	35.856111	-78.574167
371910005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Wayne	35.369214	-77.993893
380070002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Billings	46.8943	-103.37853
380150003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Burleigh	46.825425	-100.76821
380150003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Burleigh	46.825425	-100.76821
380171004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Cass	46.933754	-96.85535
380530002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	McKenzie	47.5812	-103.2995
380570004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Mercer	47.298611	-101.76694

390171004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	OH	Butler	39.53	-84.3925
390230005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Clark	39.928889	-83.809722
390570005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Greene	39.808056	-83.886944
390610006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	OH	Hamilton	39.278499	-84.365974
390950024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Lucas	41.644167	-83.546667
390990014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Mahoning	41.095868	-80.658426
391130031	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Montgomery	39.759444	-84.144444
391130032	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Montgomery	39.760278	-84.187778
391351001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Preble	39.835556	-84.720833
391510020	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Stark	40.800556	-81.373333
391550007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Trumbull	41.214167	-80.7875
400979014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	OK	Mayes	36.2284	-95.25
401159004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Ottawa	36.922222	-94.838889
401359015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Sequoyah	35.58175	-94.829
401359015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	OK	Sequoyah	35.58175	-94.829
420010001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Adams	39.92	-77.31
420030008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.465556	-79.961111
420030064	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.323611	-79.868333
420210011	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Cambria	40.309722	-78.915
420430401	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Dauphin	40.245	-76.844722
420450002	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Delaware	39.835556	-75.3725
420950025	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Northampton	40.628056	-75.341111
421250005	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Washington	40.146667	-79.902222
440030002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Kent	41.6156	-71.7199
440070022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Providence	41.807949	-71.415
440070022	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Providence	41.807949	-71.415
450250001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Chesterfield	34.615367	-80.198787
450370001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Edgefield	33.741693	-81.853633
450450009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.901046	-82.31307
450450009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.901046	-82.31307
450730001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Oconee	34.805261	-83.2377
460330132	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	SD	Custer	43.5578	-103.4839
460710001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	SD	Jackson	43.74561	-101.94122
461030020	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	SD	Pennington	44.087397	-103.27378
470090011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Blount	35.768333	-83.942222
470370036	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Davidson	36.118251	-86.873547
470450004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Dyer	36.052778	-89.381944
470654002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Hamilton	35.050928	-85.292975

470990002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Lawrence	35.116111	-87.47
471071002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	McMinn	35.451111	-84.599167
471130006	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Madison	35.653651	-88.809084
471251010	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Montgomery	36.625	-87.169167
471450004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Roane	35.9386	-84.5438
471631007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Sullivan	36.540654	-82.521667
471650007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Sumner	36.297778	-86.652778
490050004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	UT	Cache	41.731111	-111.8375
510591005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Fairfax	38.837517	-77.163231
510870014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Henrico	37.558333	-77.400278
511130003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Madison	38.521944	-78.436111
516500004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Hampton City	37.003333	-76.399167
517700015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Roanoke City	37.297178	-79.95557

Table C10. Collocated Acceptable Geographic Information for 2007

AQS_ID	FRM_Method	SC_Method	State	County	Latitude	Longitude
010730023	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.553056	-86.815
010730023	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.553056	-86.815
010731005	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.331111	-87.003611
010731009	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.459722	-87.305556
010731010	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.545278	-86.549167
010732003	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.499722	-86.924167
010732003	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.499722	-86.924167
010732006	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.386389	-86.816667
010735002	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.704722	-86.669167
010735003	BGI Models PQ200-VSCC or PQ200A-VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AL	Jefferson	33.801667	-86.9425
060010007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Alameda	37.6875	-121.7842
060195001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Fresno	36.819167	-119.71639
060290010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Kern	35.385556	-119.01472
060310004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Kings	36.101389	-119.56583
060570005	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Nevada	39.234444	-121.05556
060571001	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Nevada	39.338611	-120.17028
060571001	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Nevada	39.338611	-120.17028
060750005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Francisco	37.766	-122.3991
060811001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Mateo	37.4829	-122.2034
060850005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Santa Clara	37.3485	-121.895
060950004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Solano	38.1027	-122.2382
110010043	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	DC	District Of Columbia	38.918889	-77.0125
120330004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Escambia	30.525	-87.204167
130210012	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Bibb	32.805244	-83.543628
130590002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Clarke	33.917925	-83.344512
130890002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	De Kalb	33.688007	-84.290325
131350002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Gwinnett	33.963074	-84.069193
131350002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Gwinnett	33.963074	-84.069193
132150008	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Muscogee	32.521099	-84.944695
132230003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Paulding	33.92855	-85.04548
132450091	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	GA	Richmond	33.433883	-82.022414
132950002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	GA	Walker	34.966557	-85.297229
132950002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	GA	Walker	34.966557	-85.297229

160010011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Ada	43.636111	-116.27028
160010011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Ada	43.636111	-116.27028
160090011	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Benewah	47.338702	-116.88461
160270004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Canyon	43.562401	-116.56323
160270004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Canyon	43.562401	-116.56323
160590004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Lemhi	45.170556	-113.89222
160590004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Lemhi	45.170556	-113.89222
160590004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Lemhi	45.170556	-113.89222
160790017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 30 deg C	ID	Shoshone	47.536389	-116.23667
160790017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 50 deg C	ID	Shoshone	47.536389	-116.23667
160790017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC-FDMS-Gravimetric	ID	Shoshone	47.536389	-116.23667
170310022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.689195	-87.539318
170310057	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.914733	-87.722725
170310076	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.751369	-87.713745
170314201	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	42.14	-87.799167
170434002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Du Page	41.771195	-88.152502
170650002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Hamilton	38.083942	-88.624942
170990007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	La Salle	41.293125	-89.049242
171110001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Mc Henry	42.221421	-88.2421
171150013	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Macon	39.866944	-88.925556
171430037	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Peoria	40.698886	-89.584741
171630010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	St Clair	38.612222	-90.160278
180030004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Allen	41.094722	-85.101944
180890022	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Lake	41.606667	-87.304722
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.811097	-86.114469
180970081	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.788903	-86.214628
181570008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Tippecanoe	40.431639	-86.8525
181630012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Vanderburgh	38.021667	-87.569444
191530030	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 VSCC-Beta Attenuation	IA	Polk	41.603132	-93.643234
202090021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	KS	Wyandotte	39.1175	-94.635556
210190017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Boyd	38.459167	-82.640556
210290006	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Bullitt	37.985556	-85.713056
210373002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Campbell	39.021806	-84.474453
210590005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Daviess	37.780833	-87.075556
210670012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Fayette	38.065	-84.5
210930006	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Hardin	37.706389	-85.851667
211170007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Kenton	39.0725	-84.525

211830032	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Ohio	37.319725	-86.956097
211950002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Pike	37.482778	-82.535278
212270008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Warren	37.036667	-86.250556
220330009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	East Baton Rouge	30.461111	-91.176944
220511001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	Jefferson	30.043333	-90.275
220870007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	St Bernard	29.94475	-89.976263
221210001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	LA	West Baton Rouge	30.501944	-91.209722
245100040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MD	Baltimore City	39.298056	-76.604722
250051004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Bristol	41.6857	-71.1698
250092006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Essex	42.474444	-70.9725
250095005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Essex	42.762778	-71.105833
250130016	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Hampden	42.108889	-72.591389
250250042	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.329444	-71.082778
250250043	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Suffolk	42.362778	-71.054167
250270023	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MA	Worcester	42.265802	-71.794835
270370470	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Dakota	44.740751	-93.237293
270530963	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Hennepin	44.955396	-93.25827
271095008	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Olmsted	43.996908	-92.450366
271230871	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Ramsey	44.961451	-93.035894
271377551	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	St Louis	46.766667	-92.133056
271453052	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MN	Stearns	45.549839	-94.13345
280110001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Bolivar	33.746056	-90.723028
280470008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Harrison	30.390139	-89.049722
280490010	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Hinds	32.385583	-90.140917
280590006	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Jackson	30.378194	-88.533944
280750003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Lauderdale	32.364389	-88.731444
280810005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	MS	Lee	34.264917	-88.766222
290210005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Buchanan	39.741667	-94.858333
290470005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Clay	39.303056	-94.376389
290950034	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Jackson	39.104722	-94.570556
290990012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Jefferson	38.437778	-90.361389
295100085	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 WINS w/Correction Factor-TEOM Gravimetric 30 deg C	MO	St Louis City	38.6563	-90.1981
300310013	BGI Models PQ200-VSCC or PQ200A-VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Gallatin	44.657778	-111.09083
300310016	BGI Models PQ200-VSCC or PQ200A-VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Gallatin	44.661481	-111.10507

300490018	BGI Models PQ200-VSCC or PQ200A-VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Lewis And Clark	46.603889	-112.03528
300530018	BGI Models PQ200-VSCC or PQ200A-VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Lincoln	48.384167	-115.54806
300810007	BGI Models PQ200-VSCC or PQ200A-VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MT	Ravalli	46.245633	-114.15886
310550019	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	NE	Douglas	41.247222	-95.975556
320030022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.390775	-114.90681
320030298	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.052222	-115.05694
320030561	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.163994	-115.11393
320030561	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.163994	-115.11393
320031019	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	35.785634	-115.35706
320031019	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	35.785634	-115.35706
320032002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.191111	-115.12222
320032002	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	NV	Clark	36.191111	-115.12222
340070003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Camden	39.92304	-75.09762
340070003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Camden	39.92304	-75.09762
340171003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Hudson	40.72545	-74.05229
340171003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Hudson	40.72545	-74.05229
340230006	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Middlesex	40.47279	-74.42251
340390004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Union	40.64144	-74.20836
340390004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Union	40.64144	-74.20836
340392003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NJ	Union	40.60607	-74.27498
350130017	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Dona Ana	31.795833	-106.5575
350250008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Lea	32.726656	-103.12292
350439004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 VSCC-FDMS-Gravimetric	NM	Sandoval	35.615278	-106.72444
350490020	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NM	Santa Fe	35.671111	-105.95361
360010005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Albany	42.6424	-73.75453
360050110	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81616	-73.90207
360290005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.87684	-78.80988
360310003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Essex	44.39309	-73.85892
360551007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Monroe	43.146198	-77.54813
360610062	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72052	-74.00409
360610128	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.73003	-73.98446
360610134	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.7139	-73.9956
360632008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Niagara	43.08216	-79.00099
360710002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Orange	41.49947	-74.00973
360810124	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.7362	-73.82317
361010003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NY	Steuben	42.09071	-77.21025
370010002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Alamance	36.089004	-79.407821

370210034	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Buncombe	35.609722	-82.350833
370330001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Caswell	36.307033	-79.467417
370350004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Catawba	35.728889	-81.365556
370510009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Cumberland	35.041416	-78.953112
370570002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Davidson	35.814444	-80.2625
370670022	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.110556	-80.226667
370670030	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.026	-80.342
370710016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Gaston	35.253056	-81.153333
370810013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Guilford	36.109167	-79.801111
371110004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mc Dowell	35.687404	-81.993789
371170001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Martin	35.81069	-76.89782
371190041	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.240278	-80.785556
371190041	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.240278	-80.785556
371190042	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.151389	-80.866944
371190042	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.151389	-80.866944
371290002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	New Hanover	34.364167	-77.838611
371590021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Rowan	35.551868	-80.395039
371730002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Swain	35.435509	-83.443697
371830014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Wake	35.856111	-78.574167
371910005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Wayne	35.369214	-77.993893
401159004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Ottawa	36.922222	-94.838889
410250002	R & P Model 2000 PM2.5 Sampler w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Harney	43.586389	-119.05111
410290133	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Jackson	42.314078	-122.87924
410330114	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Josephine	42.434139	-123.34849
410350004	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Klamath	42.188889	-121.7225
410370001	R & P Model 2000 PM2.5 Sampler w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Lake	42.188889	-120.35194
410370001	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Lake	42.188889	-120.35194
410390060	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.026312	-123.08374
410391009	R & P Model 2000 PM2.5 Sampler w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Lane	44.046696	-123.0177
410392013	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Lane	43.744352	-122.48052
410510080	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Multnomah	45.496667	-122.60222
410510246	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Multnomah	45.561301	-122.67878
410590121	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Umatilla	45.651944	-118.81861
410591003	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Umatilla	45.828889	-119.26331
410610119	R & P Model 2000 PM2.5 Sampler w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Union	45.338972	-117.9048
410670004	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	OR	Washington	45.52853	-122.97244
420030008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.465556	-79.961111

420030064	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.323611	-79.868333
421010004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Philadelphia	40.008889	-75.097778
421010004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Philadelphia	40.008889	-75.097778
421010024	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Philadelphia	40.076389	-75.011944
450450008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	SC	Greenville	34.838814	-82.402914
470370023	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Davidson	36.176326	-86.738902
471570038	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Shelby	35.184167	-89.930278
481130069	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Dallas	32.819952	-96.860082
481350003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ector	31.826578	-102.34198
481390016	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Ellis	32.481944	-97.0275
481410037	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.768274	-106.5012
481410044	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.765673	-106.45523
481410053	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	El Paso	31.758516	-106.50105
482010024	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.901111	-95.326944
482011035	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harris	29.733713	-95.257591
482030002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Harrison	32.669003	-94.167449
482150043	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Hidalgo	26.226238	-98.291064
482450021	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Jefferson	29.922778	-93.908889
483750320	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Potter	35.201588	-101.90924
484391006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Tarrant	32.758889	-97.342222
484530020	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TX	Travis	30.483159	-97.872266
490050004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	UT	Cache	41.731111	-111.8375
490353006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	UT	Salt Lake	40.736389	-111.87222
490450003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	UT	Tooele	40.543371	-112.29881
490494001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	UT	Utah	40.341389	-111.71361
490570002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	UT	Weber	41.206389	-111.97472
530030004	R & P Model 2000 PM2.5 Sampler w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Asotin	46.425571	-117.05973
530070006	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Chelan	47.412222	-120.31833
530110013	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Clark	45.648333	-122.58694
530110013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Clark	45.648333	-122.58694
530110013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Clark	45.648333	-122.58694
530330024	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	King	47.755	-122.2806
530330024	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.755	-122.2806
530330024	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.755	-122.2806
530330057	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	King	47.563333	-122.3406
530330080	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	King	47.570273	-122.3086
530330080	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	King	47.570273	-122.3086
530330080	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	King	47.570273	-122.3086

530370002	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Kittitas	46.996111	-120.54528
530530029	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Pierce	47.1864	-122.4517
530530029	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Pierce	47.1864	-122.4517
530530029	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Pierce	47.1864	-122.4517
530610020	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	48.2469	-121.6031
530611007	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Snohomish	48.055556	-122.1758
530611007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Snohomish	48.055556	-122.1758
530611007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Snohomish	48.055556	-122.1758
530630016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	WA	Spokane	47.660833	-117.35722
530630016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	WA	Spokane	47.660833	-117.35722
530770009	R & P Model 2025 PM2.5 Sequential w/WINS	Correlated Radiance Research M903-Nephelometry	WA	Yakima	46.59678	-120.51222
540511002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	WV	Marshall	39.91597	-80.734057
540511002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WV	Marshall	39.91597	-80.734057

Table C11. Collocated Atmospheric Geographic Information for 2007

AQS_ID	FRM_Method	SC_Method	State	County	Latitude	Longitude
040130019	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	AZ	Maricopa	33.48385	-112.14257
040139997	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	AZ	Maricopa	33.503643	-112.095
080310002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	CO	Denver	39.751185	-104.98762
080310025	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	CO	Denver	39.704407	-104.99808
080350004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	CO	Douglas	39.53448	-105.07035
090010010	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	CT	Fairfield	41.170833	-73.194722
090031003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	CT	Hartford	41.784722	-72.631667
090050004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	CT	Litchfield	41.64486	-73.07908
090090027	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	CT	New Haven	41.301111	-72.902778
090090027	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC-FDMS-Gravimetric	CT	New Haven	41.301111	-72.902778
190170011	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	IA	Bremer	42.743056	-92.513056
190170011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IA	Bremer	42.743056	-92.513056
190170011	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Bremer	42.743056	-92.513056
190450021	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Clinton	41.874972	-90.177444
191130037	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC-FDMS-Gravimetric	IA	Linn	42.008333	-91.678611
191130037	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IA	Linn	42.008333	-91.678611
191130037	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Linn	42.008333	-91.678611
191370002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Montgomery	40.971211	-95.043868
191471002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Palo Alto	43.123333	-94.693333
191530030	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Polk	41.603132	-93.643234
191630015	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Scott	41.53	-90.5875
191630019	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Scott	41.517778	-90.618611
191770006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	IA	Van Buren	40.695078	-92.006318
202090021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	KS	Wyandotte	39.1175	-94.635556
260170014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Bay	43.571389	-83.890833
260490021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Genesee	43.04722	-83.670278
260650012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Ingham	42.738611	-84.534722
260770008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Kalamazoo	42.278056	-85.541944
260810020	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Kent	42.984167	-85.671389
261130001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Missaukee	44.310556	-84.891944
261470005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	St Clair	42.953333	-82.456389
261610008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Washtenaw	42.240556	-83.599722
261630001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.228611	-83.208333
261630033	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.306666	-83.148889
261630039	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MI	Wayne	42.323333	-83.068611

290210005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Buchanan	39.741667	-94.858333
290470005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Clay	39.303056	-94.376389
290470005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC-FDMS-Gravimetric	MO	Clay	39.303056	-94.376389
290950034	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Jackson	39.104722	-94.570556
290990012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	MO	Jefferson	38.437778	-90.361389
290990012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC-FDMS-Gravimetric	MO	Jefferson	38.437778	-90.361389
330150014	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 VSCC-FDMS-Gravimetric	NH	Rockingham	43.075278	-70.748056
340070003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC-FDMS-Gravimetric	NJ	Camden	39.92304	-75.09762
340070003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NJ	Camden	39.92304	-75.09762
340171003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC-FDMS-Gravimetric	NJ	Hudson	40.72545	-74.05229
340171003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NJ	Hudson	40.72545	-74.05229
340230006	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NJ	Middlesex	40.47279	-74.42251
340390004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC-FDMS-Gravimetric	NJ	Union	40.64144	-74.20836
340390004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NJ	Union	40.64144	-74.20836
360810124	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NY	Queens	40.7362	-73.82317
361010003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NY	Steuben	42.09071	-77.21025
371190041	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	NC	Mecklenburg	35.240278	-80.785556
390250022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Clermont	39.082319	-84.144193
390350060	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Cuyahoga	41.493955	-81.678542
390610040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Hamilton	39.128611	-84.504167
390810017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Jefferson	40.366104	-80.615002
390853002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Lake	41.7225	-81.241944
390933002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Lorain	41.463056	-82.114444
391030003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Medina	41.102778	-81.911667
391530017	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC-FDMS-Gravimetric	OH	Summit	41.063333	-81.468611
401091037	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC-FDMS-Gravimetric	OK	Oklahoma	35.614131	-97.475083
401210415	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC-FDMS-Gravimetric	OK	Pittsburg	34.90227	-95.784375
401431127	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC-FDMS-Gravimetric	OK	Tulsa	36.204902	-95.976537
420070014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Beaver	40.747778	-80.316667
420110010	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Berks	40.392694	-75.925222
420110011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Berks	40.38335	-75.9686
420710007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Lancaster	40.046667	-76.283333
420910013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	Montgomery	40.112222	-75.309167
421330008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	PA	York	39.965278	-76.699444
450450008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	SC	Greenville	34.838814	-82.402914
500030004	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	VT	Bennington	42.88759	-73.24984
500070007	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	VT	Chittenden	44.52839	-72.86884
500210002	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC-FDMS-Gravimetric	VT	Rutland	43.608056	-72.982778

550090005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Brown	44.516667	-87.993889
550270007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Dodge	43.435	-88.527778
550590019	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Kenosha	42.504722	-87.8093
550710007	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Manitowoc	44.138611	-87.616111
550710007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Manitowoc	44.138611	-87.616111
550790026	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Milwaukee	43.061111	-87.9125
550790059	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Milwaukee	42.955	-87.934167
550890009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Ozaukee	43.498056	-87.81
551091002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	St Croix	45.124444	-92.6625
551110007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Sauk	43.435556	-89.680278
551198001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Taylor	45.203889	-90.6
551330027	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	WI	Waukesha	43.020278	-88.215

Table C12. Collocated Raw Geographic Information for 2007

AQS_ID	FRM_Method	SC_Method	State	County	Latitude	Longitude
010890014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	AL	Madison	34.68767	-86.58637
010970003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	AL	Mobile	30.76972	-88.0875
021100004	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	AK	Juneau	58.38889	-134.56556
040230004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	AZ	Santa Cruz	31.3372	-110.93672
050350005	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Crittenden	35.19667	-90.191111
051191008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Pulaski	34.68167	-92.328333
051390006	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	AR	Union	33.215	-92.668889
060070002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Butte	39.7575	-121.84222
060111002	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Colusa	39.20306	-122.01667
060190008	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Fresno	36.78139	-119.77222
060190008	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Fresno	36.78139	-119.77222
060250005	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Imperial	32.67611	-115.48333
060290014	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Kern	35.35611	-119.04028
060610006	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Placer	38.74583	-121.26528
060631006	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Plumas	39.93722	-120.93778
060631009	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Plumas	39.80833	-120.47167
060631009	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Plumas	39.80833	-120.47167
060670006	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.61417	-121.36694
060670006	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.61417	-121.36694
060670010	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sacramento	38.55833	-121.49194
060730003	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Diego	32.79139	-116.94167
060731002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Diego	33.12778	-117.07417
060731010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Diego	32.70139	-117.15278
060771002	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	San Joaquin	37.95083	-121.2675
060990005	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Stanislaus	37.64167	-120.99361
061010003	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sutter	39.13889	-121.6175
061010003	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Sutter	39.13889	-121.6175
061072002	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Tulare	36.33222	-119.29028
061110007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.21	-118.86944
061110009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.40461	-118.81
061112002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.2775	-118.68472
061113001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CA	Ventura	34.255	-119.1425
080010006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Adams	39.82574	-104.93699
080130003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Boulder	40.16583	-105.10111
080130003	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Boulder	40.16583	-105.10111

080770017	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Mesa	39.06363	-108.56102
080770017	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Mesa	39.06363	-108.56102
081230006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Weld	40.41472	-104.70611
081230006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	CO	Weld	40.41472	-104.70611
081230006	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	CO	Weld	40.41472	-104.70611
090011123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Fairfield	41.39917	-73.443056
090050005	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	Litchfield	41.82139	-73.297222
090090027	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.30111	-72.902778
090090027	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.30111	-72.902778
090092123	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.55056	-73.043611
090092123	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	CT	New Haven	41.55056	-73.043611
100010002	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	Kent	38.98472	-75.555556
100031012	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	New Castle	39.69194	-75.761667
100032004	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	New Castle	39.73944	-75.558056
100051002	Thermo Electron Model RAAS2.5-300 Sequential w/VSCC	Andersen BAM w/PM2.5 SCC-Beta Attenuation	DE	Sussex	38.64444	-75.613056
120090007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Brevard	28.05389	-80.628611
120111002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Broward	26.08278	-80.237778
120310098	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Duval	30.13556	-81.634167
120570030	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.93194	-82.509722
120573002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Hillsborough	27.96565	-82.2304
120730012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Leon	30.43972	-84.348333
120830003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Marion	29.17028	-82.100833
120861016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Miami-Dade	25.79417	-80.206111
120866001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Miami-Dade	25.47139	-80.483333
120952002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Orange	28.59944	-81.363056
120990009	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	FL	Palm Beach	26.731	-80.234
121030018	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Pinellas	27.78556	-82.74
121056006	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Polk	28.02917	-81.972222
121111002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	St Lucie	27.44889	-80.40833
121275002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	FL	Volusia	29.20667	-81.053056
160010010	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Ada	43.60757	-116.34843
160010010	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Ada	43.60757	-116.34843
160090010	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	ID	Benewah	47.31667	-116.57028
160090010	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Benewah	47.31667	-116.57028
160490003	R & P Model 2000 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ID	Idaho	46.2094	-116.0275
170310022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.6892	-87.539318
170310057	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.91473	-87.722725
170310076	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	41.75137	-87.713745

170314201	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Cook	42.14	-87.799167
170434002	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Du Page	41.7712	-88.152502
170650002	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Hamilton	38.08394	-88.624942
170990007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	La Salle	41.29313	-89.049242
171110001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Mc Henry	42.22142	-88.2421
171150013	R & P Model 2000 PM2.5 Sampler w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Macon	39.86694	-88.925556
171430037	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	Peoria	40.69889	-89.584741
171630010	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IL	St Clair	38.61222	-90.160278
180431004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Floyd	38.30806	-85.834167
180970078	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.8111	-86.114469
180970081	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IN	Marion	39.7889	-86.214628
181270024	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	IN	Porter	41.6175	-87.199167
181410015	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IN	St Joseph	41.69669	-86.214683
181670018	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	IN	Vigo	39.48611	-87.401389
191130037	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	IA	Linn	42.00833	-91.678611
201070002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	KS	Linn	38.13583	-94.731944
211110043	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.23322	-85.825278
211110048	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.24056	-85.731667
211110051	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	KY	Jefferson	38.06083	-85.896111
230010011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Androscoggin	44.08944	-70.215
230090103	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Hancock	44.37705	-68.2609
230190002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Penobscot	44.79885	-68.769745
230210004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	ME	Piscataquis	45.46493	-69.592266
240150003	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Cecil	39.70111	-75.86
240330030	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Prince Georges	39.05528	-76.878333
240430009	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Washington	39.56556	-77.721944
245100040	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	MD	Baltimore City	39.29806	-76.604722
260170014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Bay	43.57139	-83.890833
260170014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Bay	43.57139	-83.890833
260490021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Genesee	43.04722	-83.670278
260490021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Genesee	43.04722	-83.670278
260650012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Ingham	42.73861	-84.534722
260650012	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Ingham	42.73861	-84.534722
260770008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Kalamazoo	42.27806	-85.541944
260770008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Kalamazoo	42.27806	-85.541944
260810020	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Kent	42.98417	-85.671389
260810020	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Kent	42.98417	-85.671389

261130001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Missaukee	44.31056	-84.891944
261130001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Missaukee	44.31056	-84.891944
261470005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	St Clair	42.95333	-82.456389
261470005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	St Clair	42.95333	-82.456389
261610008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Washtenaw	42.24056	-83.599722
261610008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Washtenaw	42.24056	-83.599722
261630001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Wayne	42.22861	-83.208333
261630001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.22861	-83.208333
261630033	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Wayne	42.30667	-83.148889
261630033	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.30667	-83.148889
261630038	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Wayne	42.335	-83.1097
261630038	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.335	-83.1097
261630039	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	MI	Wayne	42.32333	-83.068611
261630039	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	MI	Wayne	42.32333	-83.068611
295100085	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 30 deg C	MO	St Louis City	38.6563	-90.1981
330050007	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NH	Cheshire	42.93056	-72.277778
330090010	BGI Model PQ200 PM2.5 Sampler w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	NH	Grafton	43.62957	-72.226083
360010005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Albany	42.6424	-73.75453
360050110	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Bronx	40.81616	-73.90207
360290005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Erie	42.87684	-78.80988
360310003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Essex	44.39309	-73.85892
360551007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Monroe	43.1462	-77.54813
360610062	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.72052	-74.00409
360610128	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.73003	-73.98446
360610134	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	New York	40.7139	-73.9956
360632008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Niagara	43.08216	-79.00099
360710002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Orange	41.49947	-74.00973
360810124	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Queens	40.7362	-73.82317
361010003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NY	Steuben	42.09071	-77.21025
370010002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Alamance	36.089	-79.407821
370210034	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Buncombe	35.60972	-82.350833
370330001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Caswell	36.30703	-79.467417
370350004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Catawba	35.72889	-81.365556
370510009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Cumberland	35.04142	-78.953112
370570002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Davidson	35.81444	-80.2625
370670022	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.11056	-80.226667
370670030	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	NC	Forsyth	36.026	-80.342
370710016	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Gaston	35.25306	-81.153333

370810013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Guilford	36.10917	-79.801111
371110004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mc Dowell	35.6874	-81.993789
371170001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Martin	35.81069	-76.89782
371170001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Martin	35.81069	-76.89782
371190041	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.24028	-80.785556
371190041	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.24028	-80.785556
371190042	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.15139	-80.866944
371190042	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Mecklenburg	35.15139	-80.866944
371290002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	New Hanover	34.36417	-77.838611
371590021	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Rowan	35.55187	-80.395039
371730002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Swain	35.43551	-83.443697
371830014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Wake	35.85611	-78.574167
371910005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	NC	Wayne	35.36921	-77.993893
380070002	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Billings	46.8943	-103.37853
380150003	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Burleigh	46.82543	-100.76821
380171004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Cass	46.93375	-96.85535
380570004	R & P Model 2000 PM-2.5 Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	ND	Mercer	47.29861	-101.76694
390171004	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	OH	Butler	39.53	-84.3925
390230005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Clark	39.92889	-83.809722
390570005	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Greene	39.80806	-83.886944
390610006	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	OH	Hamilton	39.2785	-84.365974
390950024	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Lucas	41.64417	-83.546667
390990014	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Mahoning	41.09587	-80.658426
391130032	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Montgomery	39.76028	-84.187778
391351001	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	OH	Preble	39.83556	-84.720833
391510020	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Stark	40.80056	-81.373333
391550007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OH	Trumbull	41.21417	-80.7875
391650007	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	OH	Warren	39.4278	-84.202208
400979014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC-FDMS-Gravimetric	OK	Mayes	36.2284	-95.25
401159004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Ottawa	36.92222	-94.838889
401359015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	OK	Sequoyah	35.58175	-94.829
420010001	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Adams	39.92	-77.31
420030008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.46556	-79.961111
420030064	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	PA	Allegheny	40.32361	-79.868333
420210011	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Cambria	40.30972	-78.915
420430401	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Dauphin	40.245	-76.844722
420450002	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Delaware	39.83556	-75.3725
420950025	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	PA	Northampton	40.62806	-75.341111

421250005	R & P Model 2025 PM2.5 Sequential w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	PA	Washington	40.14667	-79.902222
440030002	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Kent	41.6156	-71.7199
440070022	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Providence	41.80795	-71.415
440070022	R & P Model 2025 PM-2.5 Sequential Air Sampler w/VSCC	Met-One BAM W/PM2.5 SCC-Beta Attenuation	RI	Providence	41.80795	-71.415
450250001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Chesterfield	34.61537	-80.198787
450370001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Edgefield	33.74169	-81.853633
450450009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.90105	-82.31307
450450009	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	SC	Greenville	34.90105	-82.31307
450630008	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	SC	Lexington	34.05281	-81.15495
450730001	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	SC	Oconee	34.80526	-83.2377
460330132	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	SD	Custer	43.5578	-103.4839
460330132	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	SD	Custer	43.5578	-103.4839
460710001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Andersen BAM w/PM2.5 SCC-Beta Attenuation	SD	Jackson	43.74561	-101.94122
460710001	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	SD	Jackson	43.74561	-101.94122
461030020	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	Andersen BAM w/PM2.5 VSCC-Beta Attenuation	SD	Pennington	44.0874	-103.27378
461030020	Andersen RAAS2.5-100 PM2.5 SAM w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	SD	Pennington	44.0874	-103.27378
470090011	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Blount	35.76833	-83.942222
470370036	Andersen RAAS2.5-300 PM2.5 SEQ w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Davidson	36.11825	-86.873547
470450004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Dyer	36.05278	-89.381944
470654002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Hamilton	35.05093	-85.292975
470654002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	TN	Hamilton	35.05093	-85.292975
470931013	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	TN	Knox	35.98055	-83.93277
470990002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Lawrence	35.11611	-87.47
471071002	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	McMinn	35.45111	-84.599167
471130006	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Madison	35.65365	-88.809084
471450004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Roane	35.9386	-84.5438
471631007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Sullivan	36.54065	-82.521667
471650007	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	TN	Sumner	36.29778	-86.652778
510591005	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Fairfax	38.83752	-77.163231
510690010	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Frederick	39.28278	-78.081389
510870014	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Henrico	37.55833	-77.400278
511130003	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Madison	38.52194	-78.436111
516500004	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Hampton City	37.00333	-76.399167
517700015	R & P Model 2025 PM2.5 Sequential w/WINS	PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	VA	Roanoke City	37.29718	-79.95557

Appendix D

Figure D1. Box plot of FRM Summary Statistics of Acceptable Data by Method

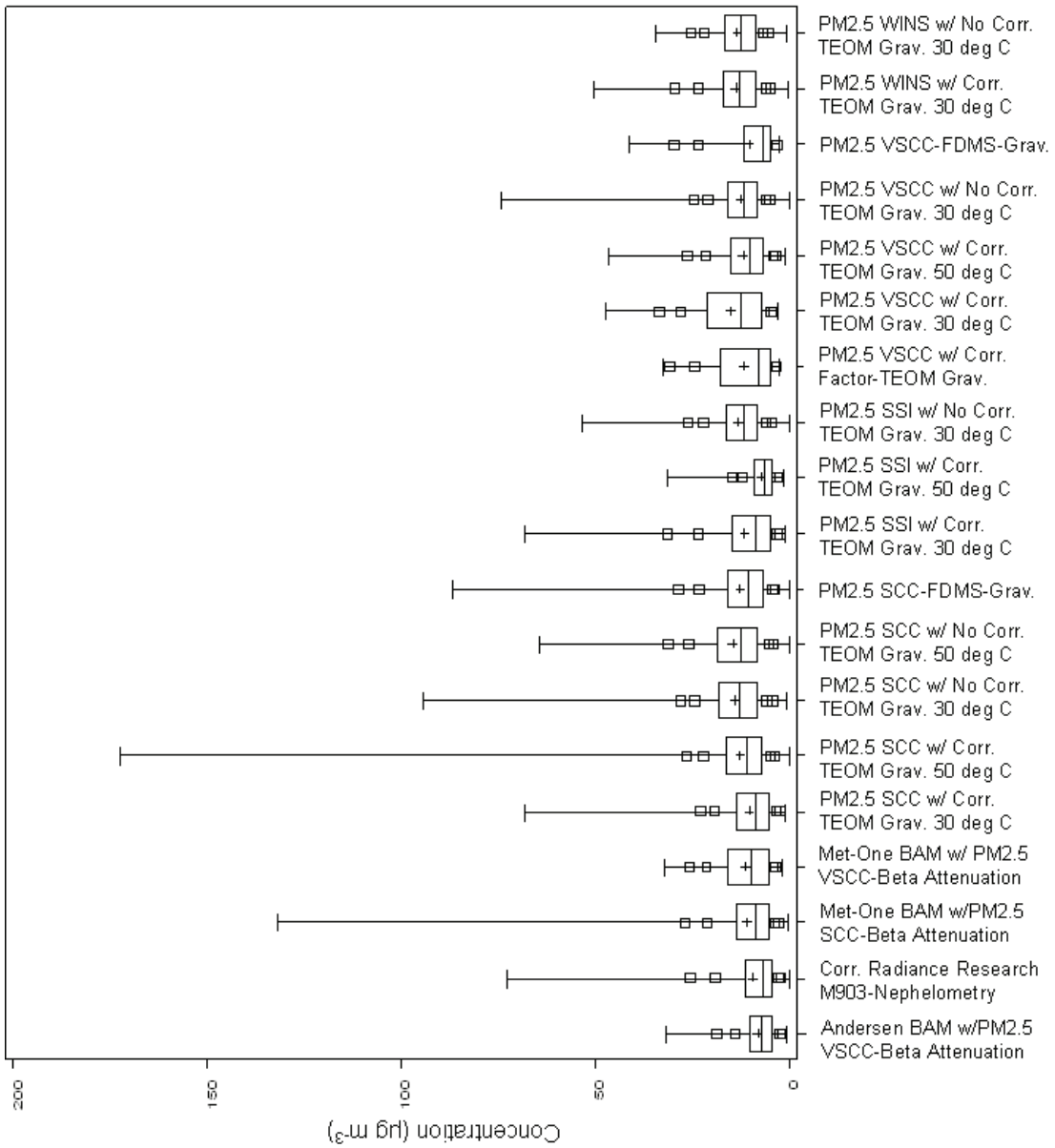

Table D1. FRM Summary Statistics of Acceptable Data by Method (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
Andersen BAM w/PM2.5 VSCC-Beta Attenuation	353	0.8	2.1	2.6	4.5	5.5	7.3	8.1	8.8	10.3	14.0	18.7	31.9
Correlated Radiance Research M903-Nephelometry	8758	0.0	2.4	3.0	4.3	4.8	6.7	9.3	8.0	11.1	19.1	25.6	73.0
Met-One BAM w/PM2.5 SCC-Beta Attenuation	12117	0.2	3.0	3.7	5.5	6.1	8.6	11.0	10.2	13.8	21.3	27.0	131.9
Met-One BAM w/PM2.5 VSCC-Beta Attenuation	86	2.0	3.6	4.2	5.3	5.9	9.8	11.3	12.2	15.7	21.5	26.0	32.2
PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	1931	1.3	2.7	3.4	5.5	6.0	8.5	10.2	10.1	13.4	19.3	23.0	68.3
PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	22085	0.1	3.9	5.0	7.4	8.1	11.0	12.7	12.9	16.4	22.3	26.6	172.3
PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	5395	0.5	4.6	5.9	8.4	9.2	12.7	14.1	14.8	18.3	24.5	28.2	94.1
PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	11834	0.0	4.3	5.4	8.2	9.1	12.6	14.5	14.6	18.7	26.1	31.4	64.4
PM2.5 SCC-FDMS-Gravimetric	5284	0.0	3.7	4.6	6.8	7.5	10.5	12.7	12.3	16.1	23.3	28.8	86.6
PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	1101	1.1	2.7	3.2	5.1	5.8	8.5	11.5	10.7	14.8	23.8	31.5	68.0
PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	1542	1.4	2.8	3.3	4.6	5.0	6.5	7.3	7.3	9.0	12.2	14.6	31.7
PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 30 deg C	1221	0.0	4.7	6.0	8.2	8.8	12.0	13.2	13.4	16.4	22.2	26.3	53.6
PM2.5 VSCC w/Correction	57	2.4	3.4	3.8	5.2	5.6	8.1	11.7	10.9	17.8	24.6	31.0	32.6

Factor-TEOM Gravimetric													
PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 30 deg C	162	2.9	4.3	4.8	7.3	8.1	12.5	15.1	15.4	21.1	28.2	33.5	47.3
PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 50 deg C	501	1.1	3.6	4.4	6.7	7.4	10.2	12.0	11.9	15.1	21.6	26.4	46.6
PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	4184	0.0	5.1	6.0	8.2	8.8	11.4	12.6	12.7	15.7	21.0	24.7	74.1
PM2.5 VSCC-FDMS-Gravimetric	96	2.5	3.2	3.9	4.7	5.1	6.6	10.2	7.3	11.9	23.7	29.8	41.2
PM2.5 WINS w/Correction Factor-TEOM Gravimetric 30 deg C	355	0.4	5.0	6.3	8.8	9.6	12.9	13.9	14.3	17.1	23.8	29.6	50.4
PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 30 deg C	323	0.9	5.5	7.0	8.8	9.6	12.5	13.4	13.3	16.7	22.1	25.4	34.6

Table D2. FRM Summary Statistics of Acceptable Data by Region (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
North Central	6900	0.0	3.4	4.3	6.2	6.9	9.5	11.0	11.1	14.2	19.4	23.5	61.8
Northeast	16493	0.0	3.8	4.8	7.1	7.9	11.3	13.3	13.5	17.4	24.7	29.7	100.7
Northwest	14872	0.0	2.4	3.0	4.3	4.8	6.7	9.2	7.9	10.9	18.8	25.1	172.3
South Central	12740	0.0	4.7	5.7	7.8	8.4	10.9	12.2	12.4	15.3	20.3	24.1	74.1
Southeast	19288	0.5	5.3	6.5	9.2	10.0	13.2	14.8	15.1	18.7	25.1	29.4	94.1
Southwest	7092	0.0	3.0	3.6	5.1	5.6	7.7	10.2	8.8	11.6	19.8	28.1	86.6

Table D3. FRM Summary Statistics of Acceptable Data by State (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
Alabama	5876	1.5	5.9	7.2	10.2	11.0	14.4	16.6	16.5	20.8	28.8	34.4	64.4
California	3066	0.6	3.3	4.0	5.5	6.1	8.4	11.7	9.9	13.7	25.1	32.8	86.6
District of Columbia	1344	0.0	4.5	5.2	7.8	8.6	12.1	13.8	14.6	18.2	24.8	28.9	45.6
Florida	456	1.7	4.6	5.2	7.2	7.9	10.2	11.7	11.5	14.3	19.9	24.9	44.9
Georgia	3472	0.5	6.0	7.2	9.7	10.5	13.8	15.0	15.6	19.0	24.6	28.0	94.1
Idaho	1468	0.0	2.3	2.7	4.2	4.5	6.3	9.2	7.5	11.1	20.7	25.3	172.3
Illinois	904	1.5	4.4	5.7	7.8	8.7	12.1	13.6	13.8	16.7	23.5	31.8	56.2
Indiana	3368	1.6	4.8	6.0	8.8	9.7	13.2	14.7	15.1	18.8	25.2	29.8	57.1
Iowa	86	2.0	3.6	4.2	5.3	5.9	9.8	11.3	12.2	15.7	21.5	26.0	32.2
Kansas	73	3.8	5.5	6.3	8.1	8.7	11.2	11.9	12.1	13.8	20.0	24.1	28.3
Kentucky	825	2.1	5.3	6.6	9.0	9.5	12.1	14.3	13.9	17.8	25.1	29.5	54.1
Louisiana	4184	0.0	5.1	6.0	8.2	8.8	11.4	12.6	12.7	15.7	21.0	24.7	74.1
Maryland	1288	2.3	5.0	5.9	8.7	9.7	13.8	15.7	16.3	21.0	27.9	32.8	49.5
Massachusetts	3850	0.3	3.1	4.0	6.0	6.6	9.2	11.1	10.9	14.4	21.0	25.2	49.7
Minnesota	2610	0.8	2.7	3.5	4.9	5.4	7.5	9.0	8.7	11.4	16.3	19.9	61.8
Mississippi	2172	2.1	4.6	5.5	7.7	8.5	10.9	12.4	12.5	15.5	21.0	25.0	49.5
Missouri	2350	0.0	4.9	5.9	8.1	8.8	11.5	12.6	13.0	15.8	20.8	24.6	50.4
Montana	917	0.2	1.6	2.2	3.5	3.8	5.6	8.8	6.9	10.3	20.3	26.7	131.9
Nebraska	856	1.8	3.3	4.0	5.6	6.0	8.0	9.5	9.2	12.1	16.8	20.5	38.7
Nevada	353	0.8	2.1	2.6	4.5	5.5	7.3	8.1	8.8	10.3	14.0	18.7	31.9
New Jersey	1858	1.0	4.1	4.8	7.0	7.7	11.0	13.2	13.1	17.3	24.7	29.6	51.0
New Mexico	1400	1.2	2.8	3.3	4.4	4.8	6.1	7.6	7.2	9.2	12.9	17.5	52.0
New York	2207	0.1	2.8	3.5	5.3	6.0	8.7	11.0	10.8	14.8	21.9	26.4	50.8
North Carolina	5576	0.5	4.5	5.6	8.2	8.9	12.1	13.4	14.2	17.5	22.9	26.4	44.1
Oklahoma	35	3.6	4.3	5.5	6.8	8.6	10.5	13.1	12.1	17.6	25.4	29.6	30.9
Oregon	4725	0.0	2.2	2.8	4.1	4.6	6.6	9.5	7.9	11.1	20.3	27.8	73.0
Pennsylvania	2126	1.7	4.5	5.5	8.1	9.0	12.9	15.7	15.2	20.0	29.8	36.9	100.7
South Carolina	682	2.4	5.8	7.5	10.5	11.2	14.8	15.8	16.7	20.4	25.5	28.1	39.9
Tennessee	2401	2.1	5.6	6.5	8.8	9.6	12.2	13.6	13.7	16.8	22.4	26.5	53.6
Texas	6349	1.2	4.4	5.5	7.6	8.1	10.6	11.8	12.0	14.9	19.6	23.3	47.0
Utah	2273	0.0	2.8	3.6	5.2	5.8	7.7	10.1	8.6	11.4	18.3	26.8	86.6

Washington	7762	0.7	2.7	3.2	4.6	5.1	6.9	9.0	8.1	10.8	17.3	23.1	71.6
West Virginia	452	3.2	5.2	6.4	9.1	9.7	13.1	14.9	14.9	18.9	26.0	32.6	47.5
Wisconsin	21	4.1	6.0	6.2	8.5	12.0	15.5	15.9	16.0	18.2	24.3	27.0	49.2

Table D4. FRM Summary Statistics of Acceptable Data by Season (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
Autumn	19375	0.0	3.5	4.4	6.5	7.2	10.1	12.0	11.9	15.6	22.3	26.8	100.7
Spring	19515	0.0	3.1	4.0	6.0	6.6	9.2	10.8	10.8	13.9	19.3	23.4	94.1
Summer	18965	0.0	3.4	4.5	7.1	7.9	11.6	13.7	14.0	18.6	26.0	30.7	172.3
Winter	19530	0.2	3.4	4.4	6.7	7.5	10.4	12.3	12.2	15.6	22.2	27.6	86.6

Table D5. SC Summary Statistics of Acceptable Data by Method (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
Andersen BAM w/PM2.5 VSCC-Beta Attenuation	353	1.6	3.5	4.2	6.2	6.8	8.9	9.5	10.0	11.6	15.0	18.2	45.2
Correlated Radiance Research M903-Nephelometry	8758	0.5	2.6	3.1	4.4	4.8	6.6	9.2	7.9	10.9	19.3	25.4	70.7
Met-One BAM W/PM2.5 SCC-Beta Attenuation	12117	1.5	2.9	3.8	5.9	6.5	9.5	11.7	11.2	15.0	22.5	28.6	143.4
Met-One BAM W/PM2.5 VSCC-Beta Attenuation	86	3.2	4.3	5.6	7.4	7.9	11.6	13.1	13.8	17.3	23.3	28.2	32.1
PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	1931	0.5	3.8	4.7	7.1	7.7	10.6	12.2	12.4	15.6	21.1	27.0	58.4
PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	22085	0.0	4.6	5.7	8.0	8.6	11.4	13.0	13.1	16.4	22.3	26.6	108.0
PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	5395	0.0	3.4	4.7	7.4	8.2	11.7	13.5	13.9	17.9	24.8	29.7	109.8
PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	11834	0.0	3.6	5.0	7.9	8.7	12.2	14.0	14.2	18.2	25.5	31.0	66.7
PM2.5 SCC-FDMS-Gravimetric	5284	0.0	3.9	5.0	7.3	7.9	10.9	13.0	12.7	16.5	23.4	28.9	91.2
PM2.5 SSI w/Correction Factor-TEOM Gravimetric 30 deg C	1101	1.2	4.1	4.7	6.3	6.8	9.0	11.2	10.5	13.7	20.9	26.8	55.8
PM2.5 SSI w/Correction Factor-TEOM Gravimetric 50 deg C	1542	2.8	4.2	4.8	6.0	6.4	8.0	8.7	8.8	10.4	13.3	15.9	40.7
PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	1221	0.5	6.0	7.4	9.9	10.7	13.8	15.4	15.6	18.7	25.4	31.1	60.3
PM2.5 VSCC w/Correction	57	3.6	4.7	5.3	6.7	7.3	9.8	12.9	12.2	17.0	26.6	32.9	35.1

Factor-TEOM Gravimetric													
PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 30 deg C	162	3.0	4.7	6.3	8.6	9.4	13.5	15.2	15.6	20.6	26.7	33.0	42.3
PM2.5 VSCC w/Correction Factor-TEOM Gravimetric 50 deg C	501	2.7	4.7	5.4	7.4	8.4	11.2	13.3	13.1	16.8	24.2	30.1	46.9
PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	4184	0.0	4.1	5.2	7.4	7.9	10.6	11.8	12.0	14.8	20.2	24.1	46.3
PM2.5 VSCC-FDMS-Gravimetric	96	3.7	5.7	6.5	8.6	9.3	13.9	15.3	15.1	16.7	28.2	35.0	48.5
PM2.5 WINS w/Correction Factor-TEOM Gravimetric 30 deg C	355	2.8	6.5	7.7	10.0	10.5	13.1	14.5	14.7	17.0	23.8	28.1	51.0
PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 30 deg C	323	2.8	6.8	8.0	10.4	11.0	13.5	14.4	14.8	17.3	21.8	26.1	37.3

Table D6. SC Summary Statistics of Acceptable Data by Region (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
North Central	6900	0.5	3.6	4.8	7.1	7.8	10.8	12.1	12.5	15.4	20.9	26.0	73.1
Northeast	16493	0.0	3.4	4.7	7.3	8.1	11.4	13.4	13.4	17.3	24.8	30.2	85.6
Northwest	14872	0.5	2.8	3.4	4.9	5.3	7.2	9.4	8.4	11.1	18.4	24.2	143.4
South Central	12740	0.0	4.5	5.4	7.5	8.1	10.5	11.7	11.9	14.7	19.7	23.4	50.3
Southeast	19288	0.5	5.5	6.7	9.3	10.1	13.4	15.1	15.3	19.0	25.6	30.3	109.8
Southwest	7092	0.0	2.6	3.4	5.2	5.8	8.4	10.9	9.8	13.1	20.7	28.6	92.6

Table D7. SC Summary Statistics of Acceptable Data by State (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
Alabama	5876	2.2	6.5	7.7	10.6	11.5	14.7	16.8	16.7	20.8	28.4	34.5	66.7
California	3066	1.5	3.0	3.9	6.0	6.7	9.8	12.7	11.6	15.6	25.5	33.0	92.6
District of Columbia	1344	0.0	3.0	3.9	5.7	6.3	9.3	11.2	11.4	14.8	21.2	26.0	46.8
Florida	456	2.8	5.5	6.5	8.5	9.1	11.6	13.0	12.8	15.4	21.5	27.2	50.0
Georgia	3472	1.1	4.6	5.8	8.5	9.2	12.9	14.5	14.9	18.9	25.0	29.5	109.8
Idaho	1468	1.2	3.1	3.8	5.3	5.8	7.5	9.8	8.8	11.9	18.9	24.0	108.0
Illinois	904	2.2	4.3	5.6	8.1	9.0	12.0	13.4	13.7	16.5	23.2	29.3	46.9
Indiana	3368	1.2	5.8	6.9	9.1	10.0	13.1	14.8	14.8	18.4	24.8	29.8	59.5
Iowa	86	3.2	4.3	5.6	7.4	7.9	11.6	13.1	13.8	17.3	23.3	28.2	32.1
Kansas	73	3.3	5.2	6.5	8.4	8.8	12.2	12.8	13.4	15.1	20.5	25.5	30.1
Kentucky	825	0.5	3.5	4.8	7.1	7.8	10.0	12.6	12.1	15.7	23.8	30.1	51.0
Louisiana	4184	0.0	4.1	5.2	7.4	7.9	10.6	11.8	12.0	14.8	20.2	24.1	46.3
Maryland	1288	4.5	7.2	8.1	10.4	11.1	14.1	15.8	16.1	19.7	25.7	30.0	46.8
Massachusetts	3850	1.5	2.9	3.9	6.2	6.9	9.8	11.9	11.5	15.7	23.2	27.8	54.5
Minnesota	2610	1.5	2.9	3.7	5.6	6.1	8.4	10.2	10.0	13.1	18.5	22.5	73.1
Mississippi	2172	1.8	5.7	6.6	8.5	9.1	11.5	12.9	12.9	15.6	21.2	25.1	50.3
Missouri	2350	1.3	5.0	6.1	8.6	9.4	12.1	13.0	13.5	16.1	21.0	24.6	51.0
Montana	917	1.5	2.3	2.7	4.0	4.3	6.3	9.6	7.6	11.3	21.5	28.3	143.4
Nebraska	856	0.5	4.4	5.7	8.4	9.0	12.6	14.4	14.5	18.5	26.9	30.4	51.7
Nevada	353	1.6	3.5	4.2	6.2	6.8	8.9	9.5	10.0	11.6	15.0	18.2	45.2
New Jersey	1858	0.0	2.4	3.5	6.0	6.7	10.2	12.4	12.1	16.3	25.1	30.5	56.4
New Mexico	1400	0.1	1.8	2.3	3.2	3.6	5.1	6.6	6.0	8.3	13.5	16.9	56.5
New York	2207	0.0	2.6	3.6	5.6	6.3	9.3	11.2	10.9	14.8	21.7	26.1	45.8
North Carolina	5576	1.5	5.4	6.5	8.9	9.6	12.7	13.9	14.5	17.7	23.3	26.6	50.7
Oklahoma	35	5.2	5.7	6.8	7.8	8.5	10.8	13.6	12.0	18.9	25.3	31.8	31.8
Oregon	4725	0.5	2.6	3.1	4.4	4.8	6.6	9.6	8.0	11.3	20.3	27.8	70.7
Pennsylvania	2126	1.5	4.5	5.9	9.2	10.1	13.8	16.8	15.9	21.5	31.7	39.5	85.6
South Carolina	682	1.1	4.7	6.2	9.5	10.7	14.5	15.4	16.7	20.3	25.8	29.5	41.4
Tennessee	2401	3.0	6.8	7.8	10.1	10.8	14.0	15.6	15.6	19.0	25.7	31.1	60.3
Texas	6349	1.4	4.4	5.3	7.3	7.8	10.1	11.3	11.5	14.2	18.7	22.0	46.1
Utah	2273	0.0	3.3	4.3	6.1	6.5	8.7	11.2	9.9	12.7	20.4	27.8	91.2

Washington	7762	0.7	2.9	3.8	5.3	5.7	7.5	9.2	8.6	10.9	16.7	22.0	63.3
West Virginia	452	2.3	5.4	6.4	9.0	9.6	13.1	14.5	14.8	18.1	24.5	30.1	47.8
Wisconsin	21	0.5	2.1	2.8	3.9	4.2	7.5	7.1	8.0	9.5	12.4	13.3	14.7

Table D8. SC Summary Statistics of Acceptable Data by Season (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
Autumn	19375	0.0	3.5	4.6	6.9	7.6	10.5	12.4	12.4	15.9	22.5	26.9	85.6
Spring	19515	0.1	3.2	4.2	6.4	7.1	9.8	11.2	11.4	14.5	19.8	23.9	109.8
Summer	18965	0.0	3.5	4.7	7.5	8.4	12.2	14.4	14.7	19.3	26.9	32.0	143.4
Winter	19530	0.0	3.5	4.5	6.7	7.4	10.0	11.8	11.6	14.6	20.7	26.3	92.6

Appendix E

Figure E1. Box plot of FRM Summary Statistics of Atmospheric Data by Method

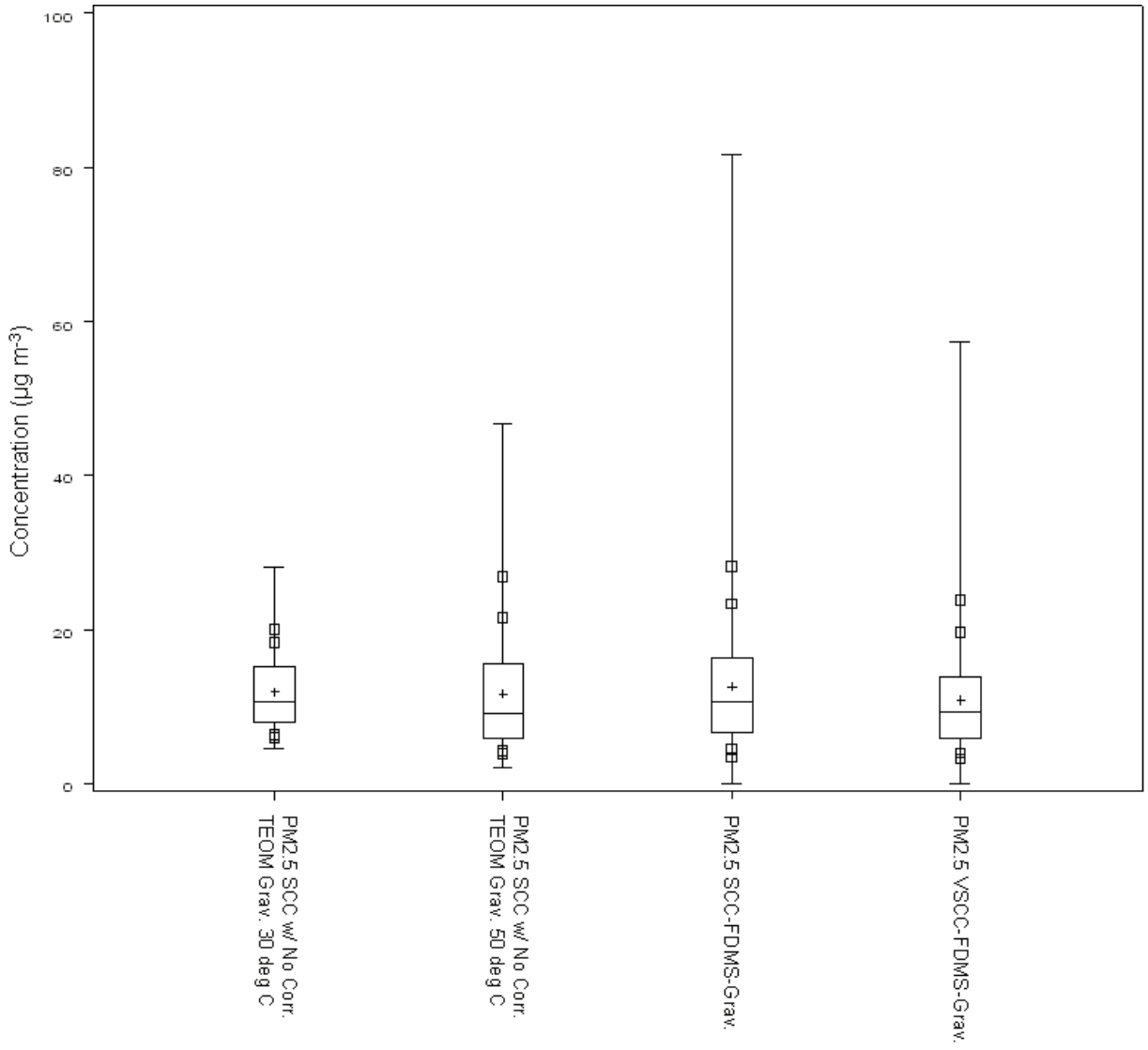

Table E1. FRM Summary Statistics of Atmospheric Data by Method (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
PM2.5 SCC w/ No Correction Factor – TEOM Gravimetric 30 deg C	104	4.7	6.0	6.5	8.1	8.6	10.6	11.9	12.8	15.2	18.4	20.0	28.0
PM2.5 SCC w/ No Correction Factor – TEOM Gravimetric 50 deg C	156	2.1	3.9	4.4	5.9	6.4	9.2	11.6	11.6	15.6	21.6	27.0	46.8
PM2.5 SCC-FDMS-Gravimetric	24224	0.0	3.5	4.5	6.6	7.4	10.7	12.6	12.7	16.5	23.4	28.2	81.6
PM2.5 VSCC-FDMS-Gravimetric	7892	0.0	3.3	4.1	6.0	6.6	9.3	10.8	10.8	13.9	19.7	23.9	57.2

Table E2. FRM Summary Statistics of Atmospheric Data by Region (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
North Central	12341	0.0	3.4	4.2	6.2	6.9	9.8	11.5	11.7	15.0	20.7	25.0	57.2
Northeast	14063	0.0	3.4	4.3	6.4	7.2	10.8	12.8	13.0	17.1	24.5	29.3	81.6
South Central	2164	0.0	3.9	4.8	6.9	7.5	10.0	11.0	11.3	13.8	18.6	22.0	37.4
Southeast	1726	0.5	5.7	7.3	10.2	11.0	14.8	16.3	17.0	20.8	27.4	31.0	63.0
Southwest	2082	0.0	3.7	4.5	6.2	6.6	8.2	9.5	9.0	11.0	15.7	19.7	71.6

Table E3. FRM Summary Statistics of Atmospheric Data by State (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
Alabama	463	3.9	6.9	8.6	11.9	12.7	16.8	19.3	19.6	24.3	32.6	39.2	63.0
Arizona	583	0.5	4.9	5.7	7.1	7.6	9.5	11.3	10.6	13.0	18.9	23.8	71.6
Colorado	1499	0.0	3.3	4.2	5.8	6.2	7.7	8.8	8.6	10.1	14.2	17.8	61.0
Connecticut	1151	1.0	3.1	3.8	5.5	6.1	9.0	11.1	11.0	14.7	21.5	26.3	45.8
Iowa	3694	1.1	3.5	4.3	6.2	6.9	9.5	11.1	11.2	14.5	20.2	24.0	57.2
Kansas	415	2.5	5.0	5.9	7.9	8.6	11.3	12.3	12.6	14.9	20.5	24.5	37.9
Michigan	4631	0.3	3.1	4.0	6.2	6.9	10.9	13.0	13.1	17.5	24.9	29.8	81.6
Missouri	2009	0.0	4.6	5.7	7.9	8.5	11.1	12.3	12.7	15.4	20.3	23.6	45.7
New Hampshire	503	0.1	2.8	3.5	4.9	5.2	7.2	8.9	8.9	11.5	15.7	19.1	38.4
New Jersey	1661	1.1	4.1	4.9	7.1	7.8	11.2	13.3	13.3	17.7	24.9	29.7	51.0
New York	614	1.4	2.8	3.5	5.0	5.7	7.8	9.8	9.2	13.1	18.9	22.1	38.3
North Carolina	561	0.5	4.7	6.0	8.9	9.6	13.0	14.3	15.3	18.6	24.3	28.0	42.0
Ohio	2370	2.3	4.8	5.8	8.3	9.2	12.7	14.4	14.7	18.9	25.0	30.0	56.6
Oklahoma	2164	0.0	3.9	4.8	6.9	7.5	10.0	11.0	11.3	13.8	18.6	22.0	37.4
Pennsylvania	1940	0.0	4.4	5.4	8.2	9.1	13.3	15.1	15.4	20.2	27.7	32.3	61.9
South Carolina	702	2.4	5.9	7.5	10.5	11.4	14.9	15.9	16.9	20.4	25.5	28.2	39.9
Vermont	1193	0.5	2.4	3.0	4.6	5.0	7.3	9.6	9.0	12.8	19.7	24.3	42.3
Wisconsin	6223	0.1	3.0	3.8	5.7	6.3	9.4	11.3	11.5	15.1	21.0	26.0	50.6

Table E4. FRM Summary Statistics of Atmospheric Data by Season (percentiles in μg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
Autumn	8549	0.3	3.0	3.8	5.7	6.3	9.3	11.3	11.1	14.8	21.4	26.0	63.0
Spring	8056	0.0	3.5	4.2	5.9	6.5	9.1	10.9	10.9	14.2	19.9	24.0	53.9
Summer	7742	0.0	4.0	5.1	7.5	8.2	11.5	13.7	13.7	18.2	25.2	29.6	63.0
Winter	8029	0.0	3.9	4.8	7.2	7.9	11.3	12.9	13.1	16.6	23.1	27.9	81.6

Table E5. SC Summary Statistics of Atmospheric Data by Method (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	104	5.8	7.0	7.5	8.7	9.1	10.6	11.5	11.3	13.7	17.2	18.5	20.2
PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	156	0.3	1.8	2.4	3.0	3.2	4.7	5.7	5.7	7.6	10.6	13.2	18.4
PM2.5 SCC-FDMS-Gravimetric	24224	0.0	2.9	4.3	7.6	8.5	12.7	14.8	15.0	19.7	28.1	34.0	84.7
PM2.5 VSCC-FDMS-Gravimetric	7892	0.2	3.4	4.5	7.2	7.9	11.5	13.2	13.6	17.6	24.2	28.6	65.3

Table E6. SC Summary Statistics of Atmospheric Data by Region (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
North Central	12341	0.0	2.5	3.7	6.5	7.3	10.8	12.3	12.7	16.3	22.7	27.4	59.1
Northeast	14063	0.0	3.1	4.5	7.8	8.8	13.4	15.6	16.0	21.2	30.0	35.7	84.7
South Central	2164	0.8	4.1	5.8	9.3	10.4	14.9	15.9	17.5	21.5	27.0	31.0	47.0
Southeast	1726	0.0	5.9	8.1	12.0	13.1	17.7	19.1	20.3	24.9	31.4	36.7	64.9
Southwest	2082	0.0	4.0	5.2	7.5	8.2	10.7	12.0	12.1	14.8	19.7	24.2	75.6

Table E7. SC Summary Statistics of Atmospheric Data by State (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
Alabama	463	2.9	7.0	10.0	13.1	14.0	18.7	21.2	22.3	27.2	36.7	41.4	64.9
Arizona	583	3.0	5.5	6.7	8.7	9.4	11.7	13.5	12.9	16.3	22.3	26.9	65.3
Colorado	1499	0.0	3.6	4.8	7.1	7.7	10.3	11.4	11.6	14.1	18.8	22.5	75.6
Connecticut	1151	0.8	2.6	3.7	6.0	6.6	9.9	12.3	11.9	16.7	24.3	29.9	54.5
Iowa	3694	0.1	3.0	4.1	6.6	7.3	10.5	12.0	12.2	15.9	21.8	25.8	59.1
Kansas	415	2.0	5.1	6.8	9.3	10.2	13.8	14.8	16.0	18.3	23.8	29.3	47.6
Michigan	4631	0.0	3.9	6.0	10.5	11.7	16.6	18.6	19.6	24.8	34.1	39.8	84.7
Missouri	2009	0.8	4.7	5.9	8.4	9.1	11.9	13.1	13.7	16.6	21.7	25.4	45.8
New Hampshire	503	0.5	2.5	3.4	5.8	6.5	9.6	10.8	11.5	14.3	19.2	24.2	44.0
New Jersey	1661	0.3	2.6	3.8	6.1	7.1	11.2	13.5	13.5	18.2	26.9	32.4	57.4
New York	614	0.0	0.8	1.3	3.0	3.7	6.1	8.7	8.0	12.7	19.3	25.1	40.9
North Carolina	561	3.4	9.5	10.7	13.9	15.1	20.0	21.1	22.6	27.2	32.7	37.3	52.2
Ohio	2370	0.5	3.9	5.3	8.7	9.8	13.9	16.0	16.5	21.2	29.3	34.5	73.3
Oklahoma	2164	0.8	4.1	5.8	9.3	10.4	14.9	15.9	17.5	21.5	27.0	31.0	47.0
Pennsylvania	1940	0.6	4.8	6.3	10.1	11.2	15.7	17.7	18.3	23.9	31.7	37.4	64.4
South Carolina	702	0.0	4.4	6.3	9.7	10.7	15.1	16.0	17.5	21.6	27.5	31.2	42.8
Vermont	1193	0.3	3.0	4.1	6.1	6.9	9.2	11.4	10.9	14.6	22.1	26.8	49.2
Wisconsin	6223	0.0	1.9	3.0	5.6	6.5	10.2	12.1	12.4	16.3	23.9	29.2	57.0

Table E8. SC Summary Statistics of Atmospheric Data by Season (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
Autumn	8549	0.0	2.6	3.9	6.8	7.6	11.4	13.6	13.7	18.2	26.0	31.9	73.3
Spring	8056	0.0	2.6	3.9	6.8	7.7	11.5	13.2	13.7	17.7	24.9	29.9	66.3
Summer	7742	0.0	4.1	5.7	9.1	10.1	14.3	16.6	17.1	22.4	30.7	36.1	74.0
Winter	8029	0.0	3.0	4.4	7.5	8.4	12.4	14.1	14.4	18.6	25.5	31.2	84.7

Appendix F

Figure F1. Box Plot of FRM Summary Statistics of Raw Data by Method

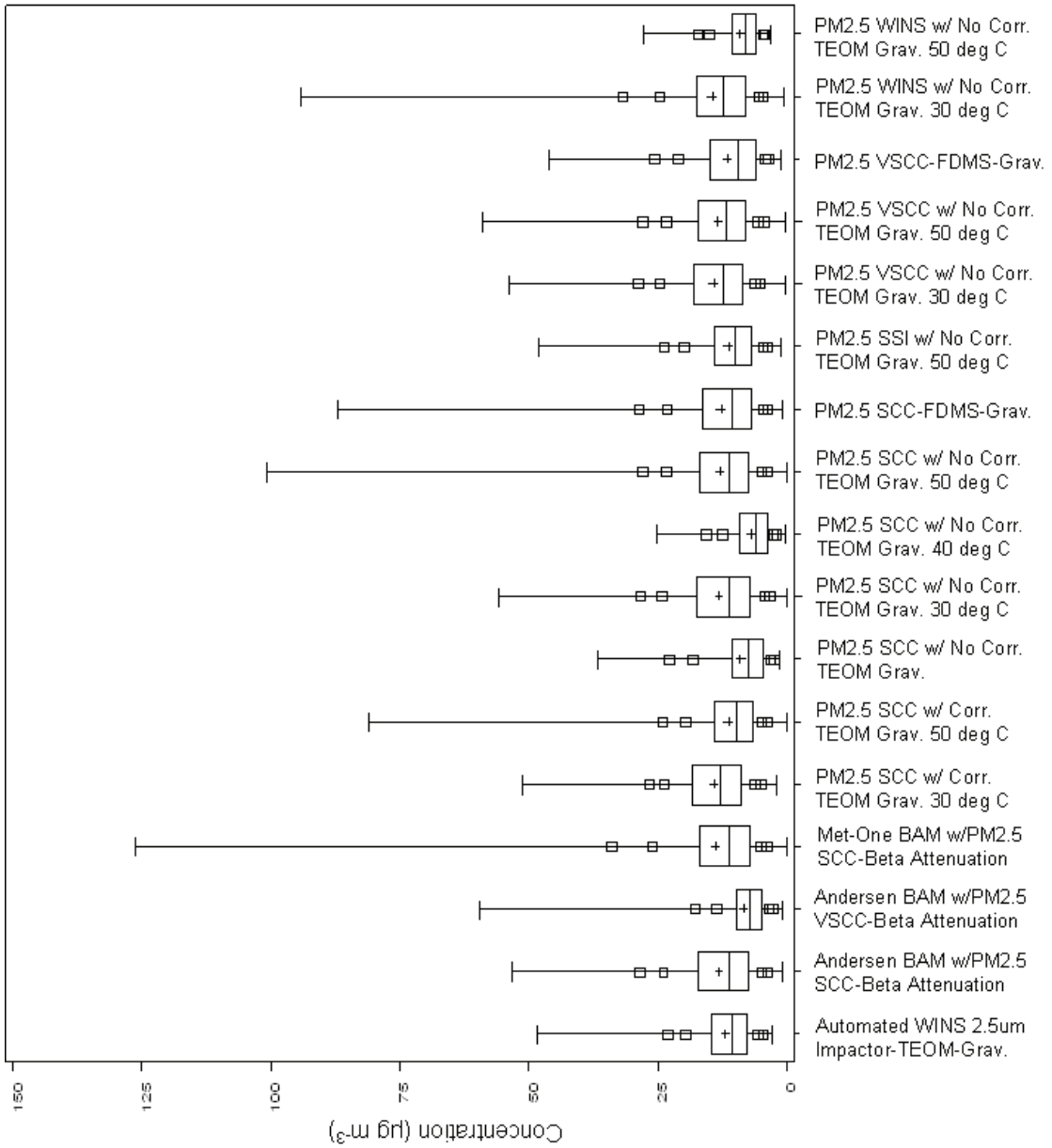

Table F1. FRM Summary Statistics of Raw Data by Method (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
Automated WINS 2.5um Impactor-TEOM-Gravimetric	427	2.5	4.5	5.6	7.8	8.4	10.7	11.8	11.9	14.4	19.6	23.0	48.3
Andersen BAM w/PM2.5 SCC-Beta Attenuation	4600	0.7	3.5	4.7	7.1	7.9	11.1	13.0	13.2	17.2	23.9	28.4	53.3
Andersen BAM w/PM2.5 VSCC-Beta Attenuation	1140	0.6	2.7	3.3	4.9	5.2	7.0	8.1	7.8	9.7	13.6	17.7	59.5
Met-One BAM w/PM2.5 SCC-Beta Attenuation	23266	0.0	3.9	4.8	7.0	7.8	11.0	13.7	12.8	17.0	26.0	33.9	126.2
PM2.5 SCC w/ Correction Factor-TEOM Gravimetric 30 deg C	1732	2.0	4.8	6.1	8.7	9.5	12.8	13.9	14.6	18.2	23.6	26.5	51.3
PM2.5 SCC w/ Correction Factor-TEOM Gravimetric 50 deg C	20725	0.0	3.8	4.7	6.5	7.1	9.6	11.1	11.0	14.0	19.6	24.0	81.1
PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	344	1.2	2.5	3.0	4.6	5.1	7.1	8.8	8.1	10.5	18.1	22.7	36.5
PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	4697	0.0	3.2	4.3	6.9	7.7	11.2	13.0	13.4	17.5	24.2	28.2	55.9
PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	1244	0.2	2.0	2.6	3.7	4.0	5.8	6.8	6.7	8.9	12.4	15.5	25.2
PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	30198	0.0	3.6	4.7	7.1	7.8	11.1	12.8	13.0	16.7	23.2	27.8	100.7
PM2.5 SCC-FDMS-Gravimetric	4599	0.7	3.6	4.5	6.7	7.3	10.5	12.6	12.2	16.1	23.1	28.7	86.9
PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	1443	1.0	3.6	4.5	6.7	7.5	9.8	11.2	11.2	14.0	19.9	23.6	48.0

PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	1279	0.2	5.0	6.0	8.4	9.2	12.4	14.0	14.2	17.9	24.6	28.8	53.7
PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	3212	0.1	4.4	5.6	7.9	8.6	11.5	13.2	13.3	17.2	23.2	27.9	58.7
PM2.5 VSCC-FDMS-Gravimetric	1434	0.9	3.4	4.2	6.1	6.8	9.5	11.4	11.3	14.6	21.1	25.6	45.9
PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 30 deg C	1667	0.4	4.5	5.5	8.0	8.8	12.2	14.3	13.9	17.5	24.6	31.7	94.2
PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 50 deg C	60	3.2	4.3	4.5	5.7	6.1	8.0	8.8	8.7	10.3	15.0	17.1	27.8

Table F2. FRM Summary Statistics of Raw Data by Region (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
North Central	9574	0.2	3.0	3.8	5.9	6.5	9.3	11.1	11.1	14.5	20.7	25.2	56.2
Northeast	37127	0.0	3.4	4.5	6.7	7.5	11.0	13.0	13.1	17.2	24.4	29.4	100.7
Northwest	666	1.1	2.7	3.2	4.5	5.1	7.2	10.1	8.6	12.8	20.8	25.6	55.2
South Central	5526	0.0	4.3	5.3	7.6	8.2	10.6	12.0	12.0	15.1	20.3	23.9	60.4
Southeast	34116	0.0	4.3	5.2	7.3	8.0	10.8	12.3	12.4	15.7	21.5	25.5	81.1
Southwest	14942	0.0	3.5	4.3	6.5	7.0	10.0	13.4	11.4	15.1	27.7	38.0	126.2

Table F3. FRM Summary Statistics of Raw Data by State (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
Alabama	1003	0.5	4.9	6.0	8.2	8.7	11.2	12.6	12.7	15.7	20.9	24.5	53.7
Alaska*	116	0.0	0.7	1.3	2.3	2.5	3.8	5.7	4.2	7.2	11.6	15.9	45.9
Arizona	139	3.7	5.1	6.1	8.5	9.3	11.8	14.9	14.4	18.3	27.9	32.3	91.5
Arkansas	1669	0.4	5.0	6.2	8.5	9.2	12.1	13.6	13.7	17.0	22.9	26.8	48.5
California	11443	0.0	4.0	4.9	7.0	8.0	10.8	14.4	12.2	16.3	30.0	40.0	126.2
Colorado	1029	0.5	3.5	4.5	6.2	6.5	8.3	9.5	9.3	11.1	15.8	20.4	50.7
Connecticut	2482	0.4	3.2	4.2	6.1	6.6	9.6	11.9	11.5	15.8	22.8	27.8	49.3
Delaware	2283	0.7	4.6	5.6	7.8	8.7	12.1	14.0	14.1	18.3	25.2	29.9	53.3
Florida	8455	0.7	3.9	4.6	6.3	6.7	8.7	9.8	9.8	11.9	15.8	18.8	81.1
Idaho	666	1.1	2.7	3.2	4.5	5.1	7.2	10.1	8.6	12.8	20.8	25.6	55.2
Illinois	3157	1.5	4.5	5.7	7.8	8.6	12.1	13.6	13.8	17.1	23.8	29.3	56.2
Indiana	3804	1.4	4.7	5.9	8.6	9.4	13.1	14.4	15.0	18.6	24.5	29.0	57.1
Iowa	2034	0.9	3.3	4.1	6.0	6.7	9.4	11.3	11.1	14.6	20.8	25.3	53.4
Kansas	439	1.5	3.5	4.3	6.3	6.9	9.2	10.3	10.5	13.2	17.7	21.6	34.5
Kentucky	2093	3.0	5.8	6.9	9.7	10.5	13.7	15.2	15.7	19.0	25.6	29.7	51.3
Maine	1721	0.2	2.2	3.0	4.6	5.1	7.2	8.6	8.3	11.0	16.8	20.2	37.5
Maryland	1553	1.0	4.6	5.4	7.9	8.7	12.0	14.1	14.4	19.1	25.1	29.8	49.5
Michigan	2416	0.0	2.9	3.9	6.2	7.1	10.8	12.4	13.0	16.7	23.3	26.9	66.3
Missouri	1370	0.4	5.0	6.5	9.0	9.6	12.9	14.1	14.2	17.5	23.5	27.9	50.4
Nevada	912	1.1	2.4	3.2	4.8	5.2	7.0	8.2	7.9	10.0	15.1	19.7	59.5
New Hampshire	443	0.0	1.8	2.8	4.2	4.6	6.7	8.5	7.6	10.3	17.7	22.5	44.9
New Jersey	1064	0.8	4.6	5.7	8.1	8.9	12.2	14.2	14.2	18.5	25.7	30.6	56.4
New Mexico	138	2.0	3.8	4.6	5.6	6.0	8.2	10.1	9.3	11.7	18.8	27.0	45.9
New York	8149	0.1	2.6	3.5	5.4	6.0	8.8	11.1	10.9	14.9	22.1	26.6	52.8
North Carolina	9986	0.0	4.6	5.7	8.4	9.2	12.5	13.6	14.4	17.6	23.1	26.8	44.1
North Dakota	1413	0.2	2.0	2.6	3.5	3.9	5.4	6.3	6.2	8.0	11.1	13.5	28.1
Ohio	4785	2.1	5.0	6.2	8.7	9.5	12.7	14.4	14.5	18.4	24.9	29.3	57.2
Oklahoma	1094	0.6	3.6	4.5	6.7	7.4	9.7	10.9	11.0	13.6	18.5	22.3	45.2
Pennsylvania	7237	0.0	4.2	5.3	8.0	8.9	12.9	15.4	15.3	20.0	28.6	34.9	100.7
Rhode Island	1190	0.7	2.9	3.6	5.0	5.3	7.6	9.8	9.4	12.7	19.0	23.4	44.1
South Carolina	3468	1.1	4.4	5.7	8.4	9.2	12.7	13.7	14.4	18.0	23.6	26.5	51.3

South Dakota	1161	0.6	2.3	2.8	4.3	4.7	6.3	6.8	7.0	8.6	11.3	13.4	35.5
Tennessee	3977	0.1	4.7	5.9	8.2	9.0	12.0	13.7	13.8	17.7	23.7	28.1	58.7
Texas	2763	0.0	4.2	5.3	7.5	8.1	10.2	11.5	11.7	14.4	19.5	22.2	60.4
Utah	1281	0.7	2.7	3.6	5.1	5.5	7.4	12.1	8.6	12.0	28.6	43.6	94.2
Virginia	2555	1.0	4.3	5.3	7.5	8.2	11.2	12.7	12.9	16.4	22.4	26.0	45.2

***Alaska was not included in the analysis.**

Table F4. FRM Summary Statistics of Raw Data by Season (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
Autumn	25962	0.0	3.3	4.2	6.3	7.0	9.8	12.0	11.6	15.3	22.4	27.6	126.2
Spring	25569	0.0	3.5	4.4	6.4	7.0	9.7	11.1	11.2	14.2	19.5	23.4	81.1
Summer	25746	0.0	4.3	5.4	8.0	8.8	12.2	14.3	14.5	18.9	26.0	30.7	104.0
Winter	24790	0.0	3.7	4.7	7.0	7.7	10.6	13.0	12.4	15.9	23.3	30.0	94.2

Table F5. SC Summary Statistics of Raw Data by Method (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
AUTOMATED WINS 2.5UM IMPACTOR-TEOM-GRAVIMETRIC	427	2.2	5.5	6.6	9.3	9.9	12.5	13.4	14.2	16.5	21.5	24.3	38.3
Andersen BAM w/PM2.5 SCC-Beta Attenuation	4600	1.0	3.2	4.9	8.8	9.9	14.1	15.5	16.4	20.5	28.1	32.8	63.4
Andersen BAM w/PM2.5 VSCC-Beta Attenuation	1140	1.0	3.0	3.6	5.7	6.3	8.5	9.5	9.7	12.0	16.6	19.8	61.8
Met-One BAM W/PM2.5 SCC-Beta Attenuation	23266	1.5	4.0	5.2	8.3	9.2	13.0	16.0	15.4	20.2	30.3	38.2	151.0
PM2.5 SCC w/Correction Factor-TEOM Gravimetric 30 deg C	1732	2.2	6.7	8.2	10.9	11.8	15.2	16.6	17.3	21.2	26.9	30.9	49.6
PM2.5 SCC w/Correction Factor-TEOM Gravimetric 50 deg C	20725	0.6	5.3	6.4	8.3	8.8	11.1	12.6	12.5	15.3	20.7	25.1	86.8
PM2.5 SCC w/No Correction Factor-TEOM Gravimetri	344	0.4	1.2	1.9	3.7	4.1	5.9	7.1	7.0	8.8	13.7	18.3	29.7
PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C	4697	0.0	3.1	4.5	7.0	7.7	10.7	12.5	12.5	16.3	23.1	27.8	59.7
PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 40 deg C	1244	0.0	1.1	1.7	2.8	3.2	4.6	5.9	5.4	7.5	11.9	15.5	38.5
PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 50 deg C	30198	0.0	3.4	4.6	6.9	7.6	10.6	12.5	12.3	16.0	22.9	28.1	83.8
PM2.5 SCC-FDMS-Gravimetric	4599	0.0	3.4	4.8	8.1	9.1	14.1	16.6	17.0	22.6	31.6	38.2	86.6
PM2.5 SSI w/No Correction Factor-TEOM Gravimetric 50 deg C	1443	0.0	3.2	4.2	6.8	7.4	10.2	11.6	12.0	15.3	20.4	24.1	46.8

PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 30 deg C	1279	1.7	5.9	6.9	9.3	10.2	13.9	15.9	16.0	20.0	28.0	32.6	60.2
PM2.5 VSCC w/No Correction Factor-TEOM Gravimetric 50 deg C	3212	2.6	5.8	6.9	8.9	9.6	12.5	14.2	14.2	18.0	24.1	28.8	53.3
PM2.5 VSCC-FDMS-Gravimetric	1434	0.3	3.7	4.9	7.9	8.8	11.9	13.6	14.1	17.4	24.5	28.6	47.8
PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 30 deg C	1667	0.0	4.8	6.2	9.0	9.8	12.8	14.4	14.6	17.9	24.6	30.1	58.1
PM2.5 WINS w/No Correction Factor-TEOM Gravimetric 50 deg C	60	2.9	3.6	3.7	4.7	5.0	6.5	6.6	7.0	7.7	9.5	11.4	19.5

Table F6. SC Summary Statistics of Raw Data by Region (percentiles in μg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
North Central	9574	0.0	2.4	3.4	6.2	7.0	10.6	12.4	12.8	16.6	23.3	28.5	62.2
Northeast	37127	0.0	3.7	4.8	7.3	8.0	11.6	14.0	13.8	18.4	26.6	32.5	83.8
Northwest	666	0.0	1.8	2.7	4.2	4.6	6.5	8.2	7.5	10.1	15.4	19.9	51.2
South Central	5526	0.0	3.2	4.2	6.6	7.3	9.9	11.2	11.5	14.5	19.6	23.7	53.5
Southeast	34116	0.4	5.7	6.7	8.8	9.4	12.1	13.7	13.7	16.9	23.0	27.3	86.8
Southwest	14942	0.0	3.4	4.6	7.3	8.1	11.6	15.0	13.6	18.1	30.1	40.3	151.0

Table F7. SC Summary Statistics of Raw Data by State (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
Alabama	1003	2.2	5.9	7.3	9.7	10.3	13.1	14.5	14.6	17.8	23.8	28.0	60.2
Alaska*	116	0.0	0.9	1.1	1.9	2.1	3.1	4.5	3.9	5.9	8.4	11.6	34.6
Arizona	139	2.9	3.8	5.0	6.7	7.1	9.9	13.3	12.0	15.8	25.3	29.4	110.4
Arkansas	1669	0.0	5.5	6.2	8.3	8.9	11.6	13.2	13.0	16.4	22.2	26.4	53.5
California	11443	1.5	3.8	5.1	8.4	9.3	12.9	16.5	15.1	20.0	32.9	42.6	151.0
Colorado	1029	0.8	3.0	3.7	5.2	5.6	7.1	8.0	8.0	9.8	13.3	16.0	43.6
Connecticut	2482	1.5	3.4	4.4	6.7	7.4	10.7	13.2	12.8	17.8	25.6	30.7	53.1
Delaware	2283	2.0	7.0	8.8	12.2	13.1	17.1	18.4	19.0	22.8	30.2	34.4	60.1
Florida	8455	1.2	5.6	6.4	8.1	8.6	10.5	11.6	11.6	13.7	17.5	20.6	86.8
Idaho	666	0.0	1.8	2.7	4.2	4.6	6.5	8.2	7.5	10.1	15.4	19.9	51.2
Illinois	3157	1.8	5.5	7.0	10.3	11.2	15.0	16.7	17.0	20.9	28.3	34.2	62.2
Indiana	3804	0.0	5.3	6.7	10.0	11.0	15.6	17.7	18.4	23.4	31.6	37.4	62.6
Iowa	2034	0.3	3.4	4.4	7.1	7.9	10.9	12.7	12.9	16.5	22.9	27.4	49.5
Kansas	439	3.1	4.8	5.5	7.2	7.9	10.0	11.3	11.2	14.2	19.5	22.8	36.9
Kentucky	2093	3.7	6.5	7.3	9.7	10.4	13.6	15.6	15.5	19.5	27.0	31.4	56.6
Maine	1721	0.0	1.0	1.6	2.8	3.2	4.8	6.1	5.7	7.9	12.5	15.7	39.2
Maryland	1553	1.5	5.1	6.8	10.3	11.4	16.3	18.6	19.0	24.7	34.0	39.6	66.2
Michigan	2416	0.0	3.7	4.7	6.6	7.2	10.2	11.9	11.9	15.3	22.0	27.0	57.3
Missouri	1370	4.4	7.2	8.0	10.3	10.9	13.8	15.4	15.6	18.6	24.9	29.7	56.7
Nevada	912	1.7	3.4	4.0	6.2	6.6	8.9	10.0	10.3	12.4	17.1	20.5	61.8
New Hampshire	443	0.0	1.1	1.8	3.1	3.5	5.0	7.0	6.2	9.1	15.1	19.3	42.5
New Jersey	1064	0.6	4.0	5.0	7.5	8.3	11.6	13.6	13.5	17.8	24.8	31.7	61.0
New Mexico	138	2.2	7.8	9.0	11.4	12.1	14.3	16.8	16.3	20.6	28.1	33.1	47.8
New York	8149	0.0	4.1	5.0	6.9	7.4	9.9	12.1	11.5	15.2	22.3	26.9	60.0
North Carolina	9986	2.1	6.1	7.2	9.7	10.4	13.6	14.9	15.5	18.7	24.6	28.2	52.7
North Dakota	1413	0.0	1.0	1.5	2.6	3.0	4.3	4.9	4.9	6.3	8.8	11.1	25.0
Ohio	4785	0.8	4.2	5.4	7.8	8.6	11.8	14.0	13.9	18.0	26.0	30.8	63.4
Oklahoma	1094	0.0	3.5	5.6	8.7	9.5	12.7	13.7	14.6	17.5	22.9	27.2	51.4
Pennsylvania	7237	0.2	4.4	5.6	8.1	8.8	12.6	15.6	14.9	20.1	29.7	36.5	83.8
Rhode Island	1190	1.6	3.3	4.0	5.7	6.2	8.8	11.2	10.7	14.3	22.2	27.2	50.3
South Carolina	3468	0.4	5.1	6.6	9.4	10.2	13.7	15.1	15.7	19.6	25.6	29.4	50.0

South Dakota	1161	1.0	1.9	2.3	3.3	3.8	5.5	6.2	6.4	8.2	10.8	12.5	30.0
Tennessee	3977	2.6	6.2	7.3	9.4	10.1	13.2	15.0	14.9	19.1	25.6	30.1	55.3
Texas	2763	0.1	2.6	3.5	5.4	5.9	8.2	9.1	9.5	11.7	15.9	18.9	44.8
Utah	1281	0.0	2.4	3.4	5.0	5.4	7.5	11.2	8.8	11.6	25.1	37.7	86.6
Virginia	2555	0.4	3.7	4.9	7.3	8.0	11.0	12.4	12.5	15.9	22.3	26.4	47.3

***Alaska was not included in the analysis.**

Table F8. SC Summary Statistics of Raw Data by Season (percentiles in µg m^{-3})

Method	N	Min	5th	10th	25th	30th	50th	Mean	60th	75th	90th	95th	Max
Autumn	25962	0.0	3.6	4.8	7.3	8.0	11.0	13.2	12.8	16.6	24.1	30.2	151.0
Spring	25569	0.0	3.7	4.9	7.4	8.1	11.1	12.6	12.8	16.0	21.8	26.2	86.8
Summer	25746	0.0	4.5	6.1	9.2	10.1	14.3	16.1	16.6	21.2	28.8	34.2	78.5
Winter	24790	0.0	3.6	4.9	7.3	7.9	10.5	12.9	12.1	15.3	23.0	31.0	110.4

Appendix G

Guidance for Use of SAS Programs Used to Predict FRM Values from Semi-Continuous Monitor Values

Section 1: Introduction

This document provides guidance for using the thirty (30) SAS programs developed to predict 'equivalent' $PM_{2.5}$ FRM values from semi-continuous monitors. The work was done by Alion Science and Technology, Inc. for the U. S. Environmental Protection Agency (EPA) under contract EP-D-05-065. Eric S. Hall, EPA/ORD/NERL, was the EPA principal investigator.

This guidance begins with a few general remarks about the SAS programs and some caveats concerning their use. Follow the general remarks and caveats, brief descriptions for each of the thirty (30) SAS programs are given. Each program is identified by its name in the accompanying SAS code files. The numeric designations in the names of the files correspond to the order in which these programs must be run to complete an analysis.

The descriptive text below is divided into two sections. The first section explains the SAS programs that are used to prepare the AQS data sets used for an analysis. The second section describes the SAS programs used to develop the predictive equations and the subsequent analysis.

Some of the SAS programs have the term "QA" in their name. These SAS programs are run just before or just after other "main" programs. For example, Program 7.9 is named "Program7-9QA_before_Program8_....". These "QA" programs are used to verify the content of the AQS data sets to ensure that the analysis proceeds to the subsequent SAS program(s).

A few caveats are appropriate before describing the SAS programs themselves. The programs use the following SAS modules: BASE, STAT, GRAPH, and ETS. The assumption when using these SAS programs is that the user has already downloaded both the semi-continuous monitor data and FRM monitor data from EPA's Air Quality System (AQS) database. If all FRM and semi-continuous sites in the Unites States are country are to be used for an analysis (as was the case here), the user is cautioned that these EPA AQS data files are very large files and can take a considerable amount of time to download onto a computer. We suggest that the user request assistance from EPA in downloading the data files from AQS. Eric S. Hall of EPA may be contacted in this regard.

In SAS program files, the semi-continuous data may be referenced as "non-FRM," "non-FRM," or "SC." These terms are all equivalent. Four semi-continuous monitor data types are available in AQS: acceptable, atmospheric, raw, and volatile. Only the first three data types were analyzed for this project.

With one obvious exception, the SAS code in the programs described below should be able to be run without alteration on a user's computer. The exception is that in every case the user will need to change the path in the "LIBNAME" statements to reflect the appropriate directory structure on the computer used for the analysis. While most of the data sets generated

by the SAS programs are used in subsequent SAS programs, the SAS code does retain some a few intermediate data sets as permanent SAS data sets which are not used for further analysis. This is done primarily as quality assurance verification and checking during the analysis process.

Section 2: AQS Data Set Preparation Programs

Program1_FRM_convert_text_SAS
This program converts the FRM data text files downloaded from AQS into SAS data sets.

Program2_FRM_convert_formats_1
This program modifies the formats of the pollutant parameter and POC variables from the FRM data and appends these to a site identifier.

Program3_FRM_convert_formats_2
This program modifies the format of the date variable and changes the names of site identifiers.

Program4_FRM_avg_by_site
This program averages the FRM data across POCs.

Program5_NonFRM_convert_text_SAS
This program converts the semi-continuous data text files downloaded from AQS into SAS data sets.

Program6_NonFRM_convert_formats
This program modifies the format of the date, time, and measurement uncertainty variables for the semi-continuous data.

Program7_NonFRM_datasets_by_type
This program divides the semi-continuous data into SAS data sets corresponding to the different data types (*i.e.*, acceptable, atmospheric, raw, and volatile).

Program7-9QA_before_Program8_check_sample_length
This program checks the sample duration of the semi-continuous data from AQS.

Program8_NonFRM_extract_hourly
This program generates semi-continuous (SAS) data sets consisting only of hourly data. (Some daily data values were discovered in AQS.)

Program8-1QA_NonFRM_after_Program8_check_missing
This program checks the semi-continuous hourly data sets for missing values of (monitor) measurement data and (monitor) detection limits.

Program9_NonFRM_correct_method_descrption
When it can be determined by context, this program corrects the truncated method descriptions for the semi-continuous data. (**Note:** For the year 2004, AQS truncated some of the method descriptions.)

Program10_NonFRM_adjust_for_BDL
This program adjusts the hourly semi-continuous values reported as below the detection limit (BDL) to half the detection limit or 0, whichever is greater. (**Note:** AQS reports 'negative' detection limits.)

Program10-5QA_after_Program10_Univariate_on_BDL_adjusted
This program compares the "before and after" results of the BDL adjustments through PROC UNIVARIATE.

Program11_NonFRM_avg_daily
This program calculates daily means from the hourly semi-continuous values.

Program12_merge_FRM_NonFRM
This program merges the FRM and semi-continuous data by date.

Program13_FRM_NonFRM_change_names
This program modifies some variable names in the merged data sets to better reflect a variable's meaning.

Program13-1QA_after_Program13_List_DataSourceReferenceID
This program lists all sites identified by the SAS variable DataSourceReferenceID.

Program13-2QA_after_Program13_List_Poc_Duplicates
This program lists all sites with multiple POCs identified by the SAS variable DataSourceReferenceID.

Program13-3QA_after_Program13_List_Site_IDs
This program lists all sites as identified by the SAS variable Site_ID.

Section 3: FRM/Semi-Continuous Data Analysis Programs

Program13-9QA_before_Program14_data_counts
This program provides counts of the number of observations available in different categories prior to developing the predictive equations.

Program14_variable_setup_summaries
This program 'joins' the merged data sets across years, creates some new variables required for an analysis, generates frequency counts and summary statistics, and calculates autocorrelation.

Program14-1QA_after_Program14_Autocorrelation_check
This program examines the degree of autocorrelation present in the data. This is done to assess whether this will be problematic in developing the predictive equations.

Program14-2QA_after_Program14_Frequency_check
This program simply checks the frequency of data for different explanatory variables, alone and in combination.

Program15_assign_method_number
This program assigns a method number to each unique semi-continuous monitoring method. Method numbers are required to track and maintain the distinct methods for the analysis.

Program16_FRM_on_SC_regression
This program develops the predictive equations for the three data types analyzed (*i.e.*, acceptable, atmospheric, and raw). Residual analysis and cross-validation are also included here.

Program16-1QA_after_Program16_Residuals_check
This program provides further checking of residuals from the regression analysis.

Program16-9_before _Program17_locate_regional_sites
This program searches for sites which may be used to assess the performance of the predictive models for specific (user-selected) geographic regions.

Program17_FRM_SC_Area_check
This program checks the performance of the predictive equations for specific (user-selected) geographic regions.

Program18_standard_violation_check
This program checks the performance of the predictive equations with respect to days when either the measured or predicted $PM_{2.5}$ value exceed the National Ambient Air Quality Standard (NAAQS) values.

Program19_histograms_CDFs_summaries
This program generates CDFs and side-by-side histograms to compare both the measured and predicted concentration values. In addition, data sets of summary statistics for different conditions are also generated.

Program1_FRM_convert_text_SAS
This program converts the FRM data text files downloaded from AQS into SAS data sets.

```
**********************   PROGRAM NUMBER 1
****************************************;

*************************************************************************
*****************
Input File : rd_501_88101_YYYY-0.txt
Output File: pm25_YYYY, where YYYY is a year 2004 - 2007.

This program converts original FRM data files (text files downloaded from EPA
website,
http://www.epa.gov/ttn/airs/airsaqs/detaildata/downloadaqsdata.htm) into SAS
data sets.
*************************************************************************
*****************;

%macro pmyear(year);
libname aqs 'J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM Data\Grahams_FRM_DATA';
data aqs.pm25_&year;
   infile "J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM
Data\Grahams_FRM_DATA\rd_501_88101_&year-0.txt" lrecl=1000 dlm='|' dsd
firstobs=3 pad;
   length r $2 action $1 state $2 county $3 site $4 time $5 null $8;
   length q1 q2 q3 q4 q5 q6 q7 q8 q9 q10 mdl uncert $8;
   input r @;
   if (r='#') then delete;
   input action state county site param poc duration unit method date time
value @;
   input null freq mp q1 q2 q3 q4 q5 q6 q7 q8 q9 q10 mdl uncert;
run;
%mend;
%pmyear(2007);
```

Program2_FRM_convert_formats_1

This program modifies the formats of the pollutant parameter and POC variables from the FRM data and appends these to a site identifier.

```
**********************     PROGRAM NUMBER 2     ****************;

*************************************************************************
OriginalFRM: Prep #1
Input File : pm25_YYYY
Output File: pm25_YYYY_REVISED, where YYYY is a year 2004 - 2007.

This program is one of 2 prep tasks written to bring original FRM
data tables into appropriate formats.
*************************************************************************;


libname FRM "J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM Data\Grahams_FRM_DATA";

data FRM.PM25_2004_REVISED; set FRM.PM25_2004;
      param_char = input(param, $5.);
      format param_char $5.;
      param_char = param;
      poc_char = input(poc, $1.);
      format poc_char $1.;
      poc_char = poc;
      SITE_ID_A = state || county || site;
      SITE_ID_B = state || county || site || param_char || poc_char;
run;
Proc Sort out=FRM.PM25_2004_REVISED data=FRM.PM25_2004_REVISED;
      by SITE_ID_B date;
run;

data FRM.PM25_2005_REVISED; set FRM.PM25_2005;
      param_char = input(param, $5.);
      format param_char $5.;
      param_char = param;
      poc_char = input(poc, $1.);
      format poc_char $1.;
      poc_char = poc;
      SITE_ID_A = state || county || site;
      SITE_ID_B = state || county || site || param_char || poc_char;
run;
Proc Sort out=FRM.PM25_2005_REVISED data=FRM.PM25_2005_REVISED;
      by SITE_ID_B date;
run;

data FRM.PM25_2006_REVISED; set FRM.PM25_2006;
      param_char = input(param, $5.);
      format param_char $5.;
      param_char = param;
      poc_char = input(poc, $1.);
      format poc_char $1.;
      poc_char = poc;
      SITE_ID_A = state || county || site;
```

```
      SITE_ID_B = state || county || site || param_char || poc_char;
run;
Proc Sort out=FRM.PM25_2006_REVISED data=FRM.PM25_2006_REVISED;
      by SITE_ID_B date;
run;

data FRM.PM25_2007_REVISED; set FRM.PM25_2007;
      param_char = input(param, $5.);
      format param_char $5.;
      param_char = param;
      poc_char = input(poc, $1.);
      format poc_char $1.;
      poc_char = poc;
      SITE_ID_A = state || county || site;
      SITE_ID_B = state || county || site || param_char || poc_char;
run;
Proc Sort out=FRM.PM25_2007_REVISED data=FRM.PM25_2007_REVISED;
      by SITE_ID_B date;
run;
*************************************************************************;
```

Program3_FRM_convert_formats_2
This program modifies the format of the date variable and changes the names of site identifiers.

```
**************************      PROGRAM NUMBER 3      *******************;


*************************************************************************
OriginalFRM: Prep #2
Input File : Pm25_YYYY_REVISED
Output File: FRM_YYYY, where YYYY is a year 2004 - 2007.

This program is one of 2 prep tasks written to bring original FRM
data tables into appropriate formats.
*************************************************************************;


libname FRM "J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM Data\Grahams_FRM_DATA";
libname REVISED "J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM Data\REVISED";


data REVISED.FRM_2004; set FRM.Pm25_2004_REVISED;
      length Site_ID $17;
      Site_ID = SITE_ID_A;
      DataSourceReferenceID = SITE_ID_B;
      date_char = substr(date, 5, 4)||"-"||substr(date, 9, 2)||"-
"||substr(date, 11, 2);
      DATE_REVISED = input(date_char, yymmdd10.);
      format DATE_REVISED yymmdd10.;
      drop SITE_ID_A SITE_ID_B date_char;
run;

data REVISED.FRM_2005; set FRM.Pm25_2005_REVISED;
      length Site_ID $17;
      Site_ID = SITE_ID_A;
      DataSourceReferenceID = SITE_ID_B;
      date_char = substr(date, 5, 4)||"-"||substr(date, 9, 2)||"-
"||substr(date, 11, 2);
      DATE_REVISED = input(date_char, yymmdd10.);
      format DATE_REVISED yymmdd10.;
      drop SITE_ID_A SITE_ID_B date_char;
run;

data REVISED.FRM_2006; set FRM.Pm25_2006_REVISED;
      length Site_ID $17;
      Site_ID = SITE_ID_A;
      DataSourceReferenceID = SITE_ID_B;
      date_char = substr(date, 5, 4)||"-"||substr(date, 9, 2)||"-
"||substr(date, 11, 2);
      DATE_REVISED = input(date_char, yymmdd10.);
      format DATE_REVISED yymmdd10.;
      drop SITE_ID_A SITE_ID_B date_char;
run;
```

```
data REVISED.FRM_2007; set FRM.Pm25_2007_REVISED;
      length Site_ID $17;
      Site_ID = SITE_ID_A;
      DataSourceReferenceID = SITE_ID_B;
      date_char = substr(date, 5, 4)||"-"||substr(date, 9, 2)||"-
"||substr(date, 11, 2);
      DATE_REVISED = input(date_char, yymmdd10.);
      format DATE_REVISED yymmdd10.;
      drop SITE_ID_A SITE_ID_B date_char;
run;
*******************************************************************************
;
```

Program4_FRM_avg_by_site
This program averages the FRM data across POCs.

```
************************   PROGRAM NUMBER 4       **************;

************************************************************
Input File: FRM_YYYY
Output File: FRM_YYYY_FINAL, where YYYY is a year 2004 - 2007.

This program calculates the daily mean for those cases where the number
of daily values reported for the day (i.e., # of pocs) is 2 or more.
Each site now has only one record per day once this program is run.

Note: Please review "Data Set/Document Descriptions (ToReport_1215)"
for variable descriptions.
************************************************************;


libname FRM 'J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM Data\REVISED\MERGE\SAS FRM
Data';

Proc Sort data=FRM.FRM_2004;
      by Site_ID DATE_REVISED;
run;
Proc Sort data=FRM.FRM_2005;
      by Site_ID DATE_REVISED;
run;
Proc Sort data=FRM.FRM_2006;
      by Site_ID DATE_REVISED;
run;
Proc Sort data=FRM.FRM_2007;
      by Site_ID DATE_REVISED;
run;

proc means  data=FRM.FRM_2004 mean n noprint;
      by Site_ID DATE_REVISED;
      id param;
      var value;
      output out=FRM.FRM_2004_FINAL mean=mean n=n;
run;

proc means  data=FRM.FRM_2005 mean n noprint;
      by Site_ID DATE_REVISED;
      id param;
      var value;
      output out=FRM.FRM_2005_FINAL mean=mean n=n;
run;

proc means  data=FRM.FRM_2006 mean n noprint;
      by Site_ID DATE_REVISED;
      id param;
      var value;
      output out=FRM.FRM_2006_FINAL mean=mean n=n;
run;
```

```
proc means  data=FRM.FRM_2007 mean n noprint;
      by Site_ID DATE_REVISED;
      id param;
      var value;
      output out=FRM.FRM_2007_FINAL mean=mean n=n;
run;


** Renaming variables to avoid confusion. 02/06. **;

data FRM.frm_2004_final; set FRM.frm_2004_final;
      nPOC_FRM = n;
      CorrectedValue_FRM = mean;
      drop param n mean _TYPE_ _FREQ_;
run;

data FRM.frm_2005_final; set FRM.frm_2005_final;
      nPOC_FRM = n;
      CorrectedValue_FRM = mean;
      drop param n mean _TYPE_ _FREQ_;
run;

data FRM.frm_2006_final; set FRM.frm_2006_final;
      nPOC_FRM = n;
      CorrectedValue_FRM = mean;
      drop param n mean _TYPE_ _FREQ_;
run;

data FRM.frm_2007_final; set FRM.frm_2007_final;
      nPOC_FRM = n;
      CorrectedValue_FRM = mean;
      drop param n mean _TYPE_ _FREQ_;
run;
```

Program5_NonFRM_convert_text_SAS
This program converts the semi-continuous data text files downloaded from AQS into SAS data sets.

```
*************************      PROGRAM NUMBER 5
************************;

*****************************************************************************
*****************
Original Non-FRM: Prep #1
This program is one of 2 prep tasks written to bring original Non-FRM data
tables into
appropriate formats.
*****************************************************************************
*****************;

*****************************************************************************
*****************
Prep #1 converts original Non-FRM data files (text files obtained from AQS
Data Mart)into SAS
data sets. Though the Proc Import calls below could have been used for the
2007 data, the 2007
Non-FRM data tables were delivered after the other years as csv files and
were converted using
DBMSCOPY V8.

Input File : Porter_pm25_nonfrm_YYYY_Num.txt
Output File: pm25_YYYY, where YYYY is a year 2004 - 2006 and Num is 1 or 2.
(The size of the original text files led to the split into 1 and 2 files per
year.)
*****************************************************************************
*****************;


options ls=90 ps=100;
libname WA_97_O 'J:\EMD_II\WA_97_EPHT_Hall\Non-FRM Data\OriginalFromNick';
libname WA_97_S 'J:\EMD_II\WA_97_EPHT_Hall\Non-FRM Data\SAS_DataSet';


PROC IMPORT DATAFILE='J:\EMD_II\WA_97_EPHT_Hall\Non-FRM
Data\OriginalFromNick\Porter_pm25_nonfrm_2004_1.txt'
                  OUT=WA_97_S.pm25_2004_1
                  DBMS=DLM
            replace;
            delimiter=',';
            getnames=yes;
run;
PROC IMPORT DATAFILE='J:\EMD_II\WA_97_EPHT_Hall\Non-FRM
Data\OriginalFromNick\Porter_pm25_nonfrm_2004_2.txt'
                  OUT=WA_97_S.pm25_2004_2
                  DBMS=DLM
            replace;
```

```
    7             delimiter=',';
            getnames=yes;
run;
data WA_97_S.pm25_2004;
   set WA_97_S.pm25_2004_1 WA_97_S.pm25_2004_2;
run;

PROC IMPORT DATAFILE='J:\EMD_II\WA_97_EPHT_Hall\Non-FRM
Data\OriginalFromNick\Porter_pm25_nonfrm_2005_1.txt'
                  OUT=WA_97_S.pm25_2005_1
                  DBMS=DLM
            replace;
            delimiter=',';
            getnames=yes;
run;
PROC IMPORT DATAFILE='J:\EMD_II\WA_97_EPHT_Hall\Non-FRM
Data\OriginalFromNick\Porter_pm25_nonfrm_2005_2.txt'
                  OUT=WA_97_S.pm25_2005_2
                  DBMS=DLM
            replace;
            delimiter=',';
            getnames=yes;
run;
data WA_97_S.pm25_2005;
   set WA_97_S.pm25_2005_1 WA_97_S.pm25_2005_2;;
run;

PROC IMPORT DATAFILE='J:\EMD_II\WA_97_EPHT_Hall\Non-FRM
Data\OriginalFromNick\Porter_pm25_nonfrm_2006_1.txt'
                  OUT=WA_97_S.pm25_2006_1
                  DBMS=DLM
            replace;
            delimiter=',';
            getnames=yes;
run;
PROC IMPORT DATAFILE='J:\EMD_II\WA_97_EPHT_Hall\Non-FRM
Data\OriginalFromNick\Porter_pm25_nonfrm_2006_2.txt'
                  OUT=WA_97_S.pm25_2006_2
                  DBMS=DLM
            replace;
            delimiter=',';
            getnames=yes;
run;
data WA_97_S.pm25_2006;
   set WA_97_S.pm25_2006_1 WA_97_S.pm25_2006_2;;
run;

*************************************************************************
****************;
```

Program6_NonFRM_convert_formats
This program modifies the format of the date, time, and measurement uncertainty variables for the semi-continuous data.

```
************************     PROGRAM NUMBER 6         ***************;

*******************************************************************************
*****************
Original Non-FRM: Prep #2
This program is one of 2 prep tasks written to bring original Non-FRM data
tables into
appropriate formats for the date, time, and measurement uncertainty
variables.
*******************************************************************************
*****************;

*******************************************************************************
*****************
Input File : pm25_YYYY
Output File: pm25_YYYY_revised, where YYYY is a year 2004 - 2006.

Prep #2 brings original Non-FRM data tables into appropriate formats. The
2007 Non-FRM data
tables were delivered after the other years as csv files and were converted
using
DBMSCOPY V8 and do not appear here.
*******************************************************************************
*****************;


libname WA_97_S 'J:\EMD_II\WA_97_EPHT_Hall\Non-FRM Data\SAS_DataSet';

data WA_97_S.pm25_2004_REVISED;
set WA_97_S.pm25_2004;

DATE_REVISED = input(DATE, yymmdd10.);
format DATE_REVISED yymmdd10.;

Time24_REVISED = input(Time24, TIME8.0);
format Time24_REVISED TIME8.0;

MeasurementUncertainty_REVISED = input(MeasurementUncertainty, BEST12.);
format MeasurementUncertainty_REVISED BEST12.;

drop DATE Time24 MeasurementUncertainty;
RUN;


data WA_97_S.pm25_2005_REVISED;
set WA_97_S.pm25_2005;

DATE_REVISED = input(DATE, yymmdd10.);
format DATE_REVISED yymmdd10.;
```

```
Time24_REVISED = input(Time24, TIME8.0);
format Time24_REVISED TIME8.0;

MeasurementUncertainty_REVISED = input(MeasurementUncertainty, BEST12.);
format MeasurementUncertainty_REVISED BEST12.;

drop DATE Time24 MeasurementUncertainty;
RUN;


data WA_97_S.pm25_2006_REVISED;
set WA_97_S.pm25_2006;

DATE_REVISED = input(DATE, yymmdd10.);
format DATE_REVISED yymmdd10.;

Time24_REVISED = input(Time24, TIME8.0);
format Time24_REVISED TIME8.0;

MeasurementUncertainty_REVISED = input(MeasurementUncertainty, BEST12.);
format MeasurementUncertainty_REVISED BEST12.;

drop DATE Time24 MeasurementUncertainty;
RUN;
*******************************************************************************
*****************;
```

Program7_NonFRM_datasets_by_type

This program divides the semi-continuous data into SAS data sets corresponding to the different data types (*i. e.*, acceptable, atmospheric, raw, and volatile).

```
************************   PROGRAM NUMBER 7    **********************;


*************************************************************************
****
Input File : pm25_YYYY_revised
Output File: NonFRM_YYYY_PARAMETER, where YYYY is a year 2004 - 2007 and
PARAMETER is acceptable, atmospheric, volatile or raw.

This program breaks non-FRM data tables into subtables for each parameter
type.
Note that only 2006 and 2007 had volatile channel data. Note also the
variations
from year to year of the exact parameter description recorded in AQS.
*************************************************************************
****;

libname REVISED "J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM Data\REVISED";


data REVISED.NonFRM_2004; set REVISED.pm25_2004_revised;
      Site_ID = substr(DataSourceReferenceID, 1, 9);
run;
data REVISED.NonFRM_2005; set REVISED.pm25_2005_revised;
      Site_ID = substr(DataSourceReferenceID, 1, 9);
run;
data REVISED.NonFRM_2006; set REVISED.pm25_2006_revised;
      Site_ID = substr(DataSourceReferenceID, 1, 9);
run;
data REVISED.NonFRM_2007; set REVISED.pm25_2007_revised;
      Site_ID = substr(DataSourceReferenceID, 1, 9);
run;


data REVISED.NonFRM_2004_Acceptable; set REVISED.NonFRM_2004;
if AQSParameterDescription='Acceptable PM2.5 AQI & Speciation Mass';
run;
data REVISED.NonFRM_2004_Atmospheric; set REVISED.NonFRM_2004;
if AQSParameterDescription='PM2.5 Total Atmospheric';
run;
data REVISED.NonFRM_2004_Raw; set REVISED.NonFRM_2004;
if AQSParameterDescription='PM2.5 Raw Data';
run;

data REVISED.NonFRM_2005_Acceptable; set REVISED.NonFRM_2005;
if AQSParameterDescription='Acceptable PM2.5';
run;
data REVISED.NonFRM_2005_Atmospheric; set REVISED.NonFRM_2005;
if AQSParameterDescription='PM2.5 Total Atmo';
run;
```

```
data REVISED.NonFRM_2005_Raw; set REVISED.NonFRM_2005;
if AQSParameterDescription='PM2.5 Raw Data';
run;

data REVISED.NonFRM_2006_Acceptable; set REVISED.NonFRM_2006;
if AQSParameterDescription='Acceptable PM2.5';
run;
data REVISED.NonFRM_2006_Atmospheric; set REVISED.NonFRM_2006;
if AQSParameterDescription='PM2.5 Total Atmo';
run;
data REVISED.NonFRM_2006_Raw; set REVISED.NonFRM_2006;
if AQSParameterDescription='PM2.5 Raw Data';
run;
data REVISED.NonFRM_2006_Volatile; set REVISED.NonFRM_2006;
if AQSParameterDescription='PM2.5 Volatile C';
run;

data REVISED.NonFRM_2007_Acceptable; set REVISED.NonFRM_2007;
if AQSParameterDescription='Acceptable PM2.5' |
AQSParameterDescription='Acceptable PM2.5 AQI & Speciation Mass';
run;
data REVISED.NonFRM_2007_Atmospheric; set REVISED.NonFRM_2007;
if AQSParameterDescription='PM2.5 Total Atmo' |
AQSParameterDescription='PM2.5 Total Atmospheric' ;
run;
data REVISED.NonFRM_2007_Raw; set REVISED.NonFRM_2007;
if AQSParameterDescription='PM2.5 Raw Data';
run;
data REVISED.NonFRM_2007_Volatile; set REVISED.NonFRM_2007;
if AQSParameterDescription='PM2.5 Volatile C' |
AQSParameterDescription='PM2.5 Volatile Channel';
run;
*************************************************************************
**;
```

Program7-9QA_before_Program8_check_sample_length
This program checks the sample duration of the semi-continuous data from AQS.

```
**********************       PROGRAM NUMBER 7.9 -- QA
**********************;

*************************************************************************
*****************
This program reads in a Non-FRM data (nonfrm_YYYY_PARAMETER, where YYYY is a
year 2004 - 2007
and PARAMETER is acceptable, atmospheric, or raw) and counts the number of
DAILY values
(DurationDescription: 24 HOURS) which should not have been reported under
Parameter Code 88500,
88501, 88502, and 88503.

SAS Output File: ProcFreq_DurationDescription.lst
*************************************************************************
*****************;


libname DAILY 'J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM Data\REVISED\MERGE\SAS
Non-FRM with Daily Data';

Proc Freq data=DAILY.nonfrm_2004_acceptable;
      title '2004';
      table AQSParameterDescription*DurationDescription;
Proc Freq data=DAILY.nonfrm_2004_atmospheric;
      table AQSParameterDescription*DurationDescription;
Proc Freq data=DAILY.nonfrm_2004_raw;
      table AQSParameterDescription*DurationDescription;

Proc Freq data=DAILY.nonfrm_2005_acceptable;
      title '2005';
      table AQSParameterDescription*DurationDescription;
Proc Freq data=DAILY.nonfrm_2005_atmospheric;
      table AQSParameterDescription*DurationDescription;
Proc Freq data=DAILY.nonfrm_2005_raw;
      table AQSParameterDescription*DurationDescription;

Proc Freq data=DAILY.nonfrm_2006_acceptable;
      title '2006';
      table AQSParameterDescription*DurationDescription;
Proc Freq data=DAILY.nonfrm_2006_atmospheric;
      table AQSParameterDescription*DurationDescription;
Proc Freq data=DAILY.nonfrm_2006_raw;
      table AQSParameterDescription*DurationDescription;
Proc Freq data=DAILY.nonfrm_2006_volatile;
      table AQSParameterDescription*DurationDescription;

Proc Freq data=DAILY.nonfrm_2007_acceptable;
      title '2007';
      table AQSParameterDescription*DurationDescription;
```

```
Proc Freq data=DAILY.nonfrm_2007_atmospheric;
      table AQSParameterDescription*DurationDescription;
Proc Freq data=DAILY.nonfrm_2007_raw;
      table AQSParameterDescription*DurationDescription;
Proc Freq data=DAILY.nonfrm_2007_volatile;
      table AQSParameterDescription*DurationDescription;
run;
```

Program8_NonFRM_extract_hourly

This program generates semi-continuous (SAS) data sets consisting only of hourly data. (Some daily data values were discovered in AQS.)

```
**********************     PROGRAM NUMBER 8     ******************;

*************************************************************************
**********
Non-FRM: Prep #1
This program is one of 5 prep tasks written to bring original Non-FRM
data tables into clean and compatible forms with the corresponding FRM data.
The series
of 5 prep programs begins with input files named "nonfrm_YYYY_PARAMETER" and
ends with
output files named "nonfrm_YYYY_PARAMETER_Final", where YYYY is a year 2004 -
2007 and
PARAMETER is acceptable, atmospheric, raw, or volatile (2006 & 2007 only).
*************************************************************************
********** ;

*************************************************************************
**********
Prep #1 excludes daily data (DurationDescription=24hr) that should NOT have
been reported to begin with as Non-FRM. The second part of the program sorts
the
hourly data sets by site, date, and time.

Prep #1 Input File: NonFRM_YYYY_PARAMETER
Prep #1 Output File: NonFRM_YYYY_PARAMETER_Hourly, where YYYY is a year 2004
- 2007
and PARAMETER is acceptable, atmospheric, raw, or volatile (2006 & 2007
only).
*************************************************************************
********** ;


libname MERGE "J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM Data\REVISED\MERGE";

****************************************;
data MERGE.NonFRM_2004_acceptable_Hourly;
      SET MERGE.NonFRM_2004_acceptable;
      if DurationDescription='1 HOUR';
run;
data MERGE.NonFRM_2004_atmospheric_Hourly;
      SET MERGE.NonFRM_2004_atmospheric;
      if DurationDescription='1 HOUR';
run;
data MERGE.NonFRM_2004_raw_Hourly;
      SET MERGE.NonFRM_2004_raw;
      if DurationDescription='1 HOUR';
run;
****************************************;
data MERGE.NonFRM_2005_acceptable_Hourly;
      SET MERGE.NonFRM_2005_acceptable;
```

```
      if DurationDescription='1 HOUR';
run;
data MERGE.NonFRM_2005_atmospheric_Hourly;
      SET MERGE.NonFRM_2005_atmospheric;
      if DurationDescription='1 HOUR';
run;
data MERGE.NonFRM_2005_raw_Hourly;
      SET MERGE.NonFRM_2005_raw;
      if DurationDescription='1 HOUR';
run;
****************************************;
data MERGE.NonFRM_2006_acceptable_Hourly;
      SET MERGE.NonFRM_2006_acceptable;
      if DurationDescription='1 HOUR';
run;
data MERGE.NonFRM_2006_atmospheric_Hourly;
      SET MERGE.NonFRM_2006_atmospheric;
      if DurationDescription='1 HOUR';
run;
data MERGE.NonFRM_2006_raw_Hourly;
      SET MERGE.NonFRM_2006_raw;
      if DurationDescription='1 HOUR';
run;
data MERGE.NonFRM_2006_volatile_Hourly;
      SET MERGE.NonFRM_2006_volatile;
      if DurationDescription='1 HOUR';
run;
****************************************;
data MERGE.NonFRM_2007_acceptable_Hourly;
      SET MERGE.NonFRM_2007_acceptable;
      if DurationDescription='1 HOUR';
run;
data MERGE.NonFRM_2007_atmospheric_Hourly;
      SET MERGE.NonFRM_2007_atmospheric;
      if DurationDescription='1 HOUR';
run;
data MERGE.NonFRM_2007_raw_Hourly;
      SET MERGE.NonFRM_2007_raw;
      if DurationDescription='1 HOUR';
run;
data MERGE.NonFRM_2007_volatile_Hourly;
      SET MERGE.NonFRM_2007_volatile;
      if DurationDescription='1 HOUR';
run;
*************************************************************************
;
Proc Sort data=MERGE.NonFRM_2004_acceptable_Hourly;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;
Proc Sort data=MERGE.NonFRM_2004_atmospheric_Hourly;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;
Proc Sort data=MERGE.NonFRM_2004_raw_Hourly;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;
```

```
Proc Sort data=MERGE.NonFRM_2005_acceptable_Hourly;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;
Proc Sort data=MERGE.NonFRM_2005_atmospheric_Hourly;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;
Proc Sort data=MERGE.NonFRM_2005_raw_Hourly;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;
Proc Sort data=MERGE.NonFRM_2006_acceptable_Hourly;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;
Proc Sort data=MERGE.NonFRM_2006_atmospheric_Hourly;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;
Proc Sort data=MERGE.NonFRM_2006_raw_Hourly;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;
Proc Sort data=MERGE.NonFRM_2006_volatile_Hourly;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;
Proc Sort data=MERGE.NonFRM_2007_acceptable_Hourly;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;
Proc Sort data=MERGE.NonFRM_2007_atmospheric_Hourly;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;
Proc Sort data=MERGE.NonFRM_2007_raw_Hourly;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;
Proc Sort data=MERGE.NonFRM_2007_volatile_Hourly;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;
*************************************************************************
;
```

Program8-1QA_NonFRM_after_Program8_check_missing
This program checks the semi-continuous hourly data sets for missing values of (monitor) measurement data and (monitor) detection limits.

```
**************************     PROGRAM NUMBER 8.1 -- QA
*************;

*******************************************************************************
**********
Non-FRM: Prep #2
This program is one of 5 prep tasks written to bring original Non-FRM
data tables into clean and compatible forms with the corresponding FRM data.
The series
of 5 prep programs begins with input files named "nonfrm_YYYY_PARAMETER" and
ends with
output files named "nonfrm_YYYY_PARAMETER_Final", where YYYY is a year 2004 -
2007 and
PARAMETER is acceptable, atmospheric, raw, or volatile (2006 & 2007 only).
*******************************************************************************
********** ;

*******************************************************************************
**********
Prep #2 sorts the data to ascertain the extent of missing values for
detection limits and
measured values on the hourly data.

Prep #2 Input File: NonFRM_YYYY_PARAMETER_Hourly
Prep #2 Output File: NonFRM_YYYY_PARAMETER_Hourly_O and O2, where YYYY is a
year 2004 - 2007
and PARAMETER is acceptable, atmospheric, raw, or volatile (2006 & 2007
only).
*******************************************************************************
********** ;



libname MERGE "J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM Data\REVISED\MERGE";

*******************************************************************************
********** ;
proc sort data = MERGE.NonFRM_2004_acceptable_Hourly out =
NonFRM_2004_acceptable_Hourly_O;
      by MinimumDetectableLimit;
run;
proc sort data = MERGE.NonFRM_2004_acceptable_Hourly out =
NonFRM_2004_acceptable_Hourly_O2;
      by MeasurementValue;
run;
proc sort data = MERGE.NonFRM_2004_atmospheric_Hourly out =
NonFRM_2004_atmospheric_Hourly_O;
      by MinimumDetectableLimit;
run;
```

```
proc sort data = MERGE.NonFRM_2004_atmospheric_Hourly out =
NonFRM_2004_atmospheric_HR_O2;
      by MeasurementValue;
run;
proc sort data = MERGE.NonFRM_2004_raw_Hourly out = NonFRM_2004_raw_Hourly_O;
      by MinimumDetectableLimit;
run;
proc sort data = MERGE.NonFRM_2004_raw_Hourly out =
NonFRM_2004_raw_Hourly_O2;
      by MeasurementValue;
run;


proc sort data = MERGE.NonFRM_2005_acceptable_Hourly out =
NonFRM_2005_acceptable_Hourly_O;
      by MinimumDetectableLimit;
run;
proc sort data = MERGE.NonFRM_2005_acceptable_Hourly out =
NonFRM_2005_acceptable_Hourly_O2;
      by MeasurementValue;
run;
proc sort data = MERGE.NonFRM_2005_atmospheric_Hourly out =
NonFRM_2005_atmospheric_Hourly_O;
      by MinimumDetectableLimit;
run;
proc sort data = MERGE.NonFRM_2005_atmospheric_Hourly out =
NonFRM_2005_atmospheric_HR_O2;
      by MeasurementValue;
run;
proc sort data = MERGE.NonFRM_2005_raw_Hourly out = NonFRM_2005_raw_Hourly_O;
      by MinimumDetectableLimit;
run;
proc sort data = MERGE.NonFRM_2005_raw_Hourly out =
NonFRM_2005_raw_Hourly_O2;
      by MeasurementValue;
run;


proc sort data = MERGE.NonFRM_2006_acceptable_Hourly out =
NonFRM_2006_acceptable_Hourly_O;
      by MinimumDetectableLimit;
run;
proc sort data = MERGE.NonFRM_2006_acceptable_Hourly out =
NonFRM_2006_acceptable_Hourly_O2;
      by MeasurementValue;
run;
proc sort data = MERGE.NonFRM_2006_atmospheric_Hourly out =
NonFRM_2006_atmospheric_Hourly_O;
      by MinimumDetectableLimit;
run;
proc sort data = MERGE.NonFRM_2006_atmospheric_Hourly out =
NonFRM_2006_atmospheric_HR_O2;
      by MeasurementValue;
run;
proc sort data = MERGE.NonFRM_2006_raw_Hourly out = NonFRM_2006_raw_Hourly_O;
```

```
      by MinimumDetectableLimit;
run;
proc sort data = MERGE.NonFRM_2006_raw_Hourly out =
NonFRM_2006_raw_Hourly_O2;
      by MeasurementValue;
run;
proc sort data = MERGE.NonFRM_2006_volatile_Hourly out =
NonFRM_2006_volatile_Hourly_O;
      by MinimumDetectableLimit;
run;
proc sort data = MERGE.NonFRM_2006_volatile_Hourly out =
NonFRM_2006_volatile_Hourly_O2;
      by MeasurementValue;
run;

proc sort data = MERGE.NonFRM_2007_acceptable_Hourly out =
NonFRM_2007_acceptable_Hourly_O;
      by MinimumDetectableLimit;
run;
proc sort data = MERGE.NonFRM_2007_acceptable_Hourly out =
NonFRM_2007_acceptable_Hourly_O2;
      by MeasurementValue;
run;
proc sort data = MERGE.NonFRM_2007_atmospheric_Hourly out =
NonFRM_2007_atmospheric_Hourly_O;
      by MinimumDetectableLimit;
run;
proc sort data = MERGE.NonFRM_2007_atmospheric_Hourly out =
NonFRM_2007_atmospheric_HR_O2;
      by MeasurementValue;
run;
proc sort data = MERGE.NonFRM_2007_raw_Hourly out = NonFRM_2007_raw_Hourly_O;
      by MinimumDetectableLimit;
run;
proc sort data = MERGE.NonFRM_2007_raw_Hourly out =
NonFRM_2007_raw_Hourly_O2;
      by MeasurementValue;
run;
proc sort data = MERGE.NonFRM_2007_volatile_Hourly out =
NonFRM_2007_volatile_Hourly_O;
      by MinimumDetectableLimit;
run;
proc sort data = MERGE.NonFRM_2007_volatile_Hourly out =
NonFRM_2007_volatile_Hourly_O2;
      by MeasurementValue;
run;
*************************************************************************
********** ;
```

Program9_NonFRM_correct_method_description

When it can be determined by context, this program corrects the truncated method descriptions for the semi-continuous data. (**Note:** For the year 2004, AQS truncated some of the method descriptions.)

```
************************     PROGRAM NUMBER 9
*********************************;


*************************************************************************
**********
Non-FRM: Prep #3
This program is one of 5 prep tasks written to bring original Non-FRM
data tables into clean and compatible forms with the corresponding FRM data.
The series
of 5 prep programs begins with input files named "nonfrm_YYYY_PARAMETER" and
ends with
output files named "nonfrm_YYYY_PARAMETER_Final", where YYYY is a year 2004 -
2007 and
PARAMETER is acceptable, atmospheric, raw, or volatile (2006 & 2007 only).
*************************************************************************
********** ;

*************************************************************************
**********
Prep #3 corrects Method Description labeling errors found in the
2004_acceptable and
2004_raw data tables. The following modifications are made on Method
Description
after this run:

-------------------------------------------------------------------------
-----------------------------------
Before (Incorrect)                                  After (Correct)
-------------------------------------------------------------------------
-----------------------------------
PM2.5 SCC w/No Correction Factor-TEOM Gravimetri -> PM2.5 SCC w/No Correction
Factor-TEOM Gravimetric 30 deg C
                                    or
                                        PM2.5 SCC w/No Correction Factor-TEOM
Gravimetric 50 deg C
PM2.5 SCC w/Correction Factor-TEOM Gravimetric 3 -> PM2.5 SCC w/Correction
Factor-TEOM Gravimetric 30 deg C
PM2.5 SCC w/Correction Factor-TEOM Gravimetric 5 -> PM2.5 SCC w/Correction
Factor-TEOM Gravimetric 50 deg C
PM2.5 SSI w/Correction Factor-TEOM Gravimetric 3 -> PM2.5 SSI w/Correction
Factor-TEOM Gravimetric 30 deg C
PM2.5 SSI w/Correction Factor-TEOM Gravimetric 5 -> PM2.5 SSI w/Correction
Factor-TEOM Gravimetric 50 deg C
PM2.5 SSI w/No Correction Factor-TEOM Gravimetri -> PM2.5 SSI w/No Correction
Factor-TEOM Gravimetric 50 deg C
PM2.5 WINS w/No Correction Factor-TEOM Gravimetr -> PM2.5 WINS w/No
Correction Factor-TEOM Gravimetric 30 deg C
```

```
PM2.5 VSCC w/No Correction Factor-TEOM Gravimetr -> PM2.5 VSCC w/No
Correction Factor-TEOM Gravimetric 30 deg C
PM2.5 VSCC w/Correction Factor-TEOM Gravimetric  -> complete method name
could not be reliably determined
                                                    and not included in code
below
-------------------------------------------------------------------------------
----------------------------------

Note that "SCC w/No Correction Factor-TEOM Gravimetri" has been replaced with
either
"SCC w/No Correction Factor-TEOM Gravimetric 30 deg C" or "SCC w/No
Correction
Factor-TEOM Gravimetric 50 deg C" depending on the site location. Proc Freq
was run on
the 2004 data to establish which sites contained truncated method names. Proc
Freqs were
run on 2005-2007 data tables for those locations to learn whether the site
uses 30 deg
C or 50 deg C. An appropriate substitution could not always be determined.
(2005-2007
data tables indicated that the site uses both 30 deg C and 50 deg C methods.)
In such cases, the Method Description was left unaltered.

All method description corrections were done in consultation with Eric Hall
of EPA.

Prep #3 Input File: MERGE.nonfrm_YYYY_PARAMETER_hourly
Prep #3 Output File: MERGE.nonfrm_2004_PARAMETER_hourly_R, where
PARAMETER is acceptable or raw.
*******************************************************************************
********** ;


libname MERGE "J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM Data\REVISED\MERGE";



** The following code identifies sites with incorrect Method Description
labeling,
'PM2.5 SCC w/No Correction Factor-TEOM Gravimetri', from 2004_Acceptable data
set. **;

data nonfrm_2004_acceptable_hourly_G; set
MERGE.nonfrm_2004_acceptable_hourly;
      if MethodDescription = 'PM2.5 SCC w/No Correction Factor-TEOM
Gravimetri';
run;
proc freq data = nonfrm_2004_acceptable_hourly_G;
      title '2004_acceptable_hourly: Locations w/ Gravimetri';
      tables DataSourceReferenceID;
run;
data nonfrm_2004_acceptable_hourly_R; set
MERGE.nonfrm_2004_acceptable_hourly;
      if DataSourceReferenceID in
```

```
              ('010730023885023',
               '010731005885023',
               '010731009885023',
               '010731010885023',
               '010732003885023',
               '010732006885023',
               '010735002885023',
               '010735003885023',
               '110010043885023',
               '130210012885023',
               '130511002885023',
               '130590002885023',
               '130770002885023',
               '130890002885023',
               '131350002885023',
               '131510002885023',
               '132150008885023',
               '132230003885023',
               '132450091885023',
               '160090011885023',
               '180030004885023',
               '180890022885023',
               '180970078885023',
               '181630012885023',
               '270177416885023',
               '350130016885023',
               '350130017885023',
               '350130021885023',
               '350130022885023',
               '350151005885023',
               '350250008885023',
               '350490020885023',
               '350550005885023');
keep DataSourceReferenceID MethodDescription DATE_REVISED Time24_REVISED;
run;


** The following code creates 2005-2007 sub-tables containing only sites
found to be problematic for 2004. **;

data nonfrm_2005_acceptable_hourly_R; set
MERGE.nonfrm_2005_acceptable_hourly;
      if DataSourceReferenceID in
              ('010730023885023',
               '010731005885023',
               '010731009885023',
               '010731010885023',
               '010732003885023',
               '010732006885023',
               '010735002885023',
               '010735003885023',
               '110010043885023',
               '130210012885023',
               '130511002885023',
               '130590002885023',
```

```
                '130770002885023',
                '130890002885023',
                '131350002885023',
                '131510002885023',
                '132150008885023',
                '132230003885023',
                '132450091885023',
                '160090011885023',
                '180030004885023',
                '180890022885023',
                '180970078885023',
                '181630012885023',
                '270177416885023',
                '350130016885023',
                '350130017885023',
                '350130021885023',
                '350130022885023',
                '350151005885023',
                '350250008885023',
                '350490020885023',
                '350550005885023');
keep DataSourceReferenceID MethodDescription DATE_REVISED Time24_REVISED;
run;
data nonfrm_2006_acceptable_hourly_R; set
MERGE.nonfrm_2006_acceptable_hourly;
      if DataSourceReferenceID in
              ('010730023885023',
               '010731005885023',
               '010731009885023',
               '010731010885023',
               '010732003885023',
               '010732006885023',
               '010735002885023',
               '010735003885023',
               '110010043885023',
               '130210012885023',
               '130511002885023',
               '130590002885023',
               '130770002885023',
               '130890002885023',
               '131350002885023',
               '131510002885023',
               '132150008885023',
               '132230003885023',
               '132450091885023',
               '160090011885023',
               '180030004885023',
               '180890022885023',
               '180970078885023',
               '181630012885023',
               '270177416885023',
               '350130016885023',
               '350130017885023',
               '350130021885023',
               '350130022885023',
```

```
              '350151005885023',
              '350250008885023',
              '350490020885023',
              '350550005885023');
keep DataSourceReferenceID MethodDescription DATE_REVISED Time24_REVISED;
run;
data nonfrm_2007_acceptable_hourly_R; set
MERGE.nonfrm_2007_acceptable_hourly;
      if DataSourceReferenceID in
             ('010730023885023',
              '010731005885023',
              '010731009885023',
              '010731010885023',
              '010732003885023',
              '010732006885023',
              '010735002885023',
              '010735003885023',
              '110010043885023',
              '130210012885023',
              '130511002885023',
              '130590002885023',
              '130770002885023',
              '130890002885023',
              '131350002885023',
              '131510002885023',
              '132150008885023',
              '132230003885023',
              '132450091885023',
              '160090011885023',
              '180030004885023',
              '180890022885023',
              '180970078885023',
              '181630012885023',
              '270177416885023',
              '350130016885023',
              '350130017885023',
              '350130021885023',
              '350130022885023',
              '350151005885023',
              '350250008885023',
              '350490020885023',
              '350550005885023');
keep DataSourceReferenceID MethodDescription DATE_REVISED Time24_REVISED;
run;


** The following code creates Site_Method Description combinations from
the sub-tables created by the above code. These combinations are then
examined site by site to determine how to correct the truncated method
description (if possible)**;

proc freq data = nonfrm_2004_acceptable_hourly_R;
      title '2004_acceptable';
      tables DataSourceReferenceID*MethodDescription;
run;
```

```
proc freq data = nonfrm_2005_acceptable_hourly_R;
      title '2005_acceptable';
      tables DataSourceReferenceID*MethodDescription;
run;
proc freq data = nonfrm_2006_acceptable_hourly_R;
      title '2006_acceptable';
      tables DataSourceReferenceID*MethodDescription;
run;
proc freq data = nonfrm_2007_acceptable_hourly_R;
      title '2007_acceptable';
      tables DataSourceReferenceID*MethodDescription;
run;


** The following code replaces "PM2.5 SCC w/No Correction Factor-TEOM
Gravimetri"
with "PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C" or "PM2.5
SCC
w/No Correction Factor-TEOM Gravimetric 50 deg C" based on the Site_Method
Description combinations recognized from the previous Proc Freq results. **;

data MERGE.nonfrm_2004_acceptable_hourly_R; set
MERGE.nonfrm_2004_acceptable_hourly;
      if MethodDescription = 'PM2.5 SCC w/No Correction Factor-TEOM
Gravimetri' and
         DataSourceReferenceID in (
                     '130590002885023',
                     '130770002885023',
              '130890002885023',
              '131350002885023',
              '131510002885023',
              '132150008885023',
              '132230003885023',
              '132450091885023',
              '160090011885023')
      then MethodDescription = 'PM2.5 SCC w/No Correction Factor-TEOM
Gravimetric 30 deg C';
      if MethodDescription = 'PM2.5 SCC w/No Correction Factor-TEOM
Gravimetri' and
         DataSourceReferenceID in (
              '010730023885023',
              '010731005885023',
              '010731009885023',
              '010731010885023',
              '010732003885023',
              '010732006885023',
              '010735002885023',
              '010735003885023',
              '110010043885023',
              '130210012885023',
              '130511002885023',
              '180030004885023',
              '180890022885023',
              '180970078885023',
              '181630012885023',
```

```
                '270177416885023',
                '350130016885023',
                '350130017885023',
                '350130021885023',
                '350130022885023',
                '350151005885023',
                '350250008885023',
                '350490020885023',
                '350550005885023')
      then MethodDescription = 'PM2.5 SCC w/No Correction Factor-TEOM
Gravimetric 50 deg C';
run;


** The following code corrects the rest of the labeling errors. **;

data MERGE.nonfrm_2004_acceptable_hourly_R; set
MERGE.nonfrm_2004_acceptable_hourly_R;
      if MethodDescription = 'PM2.5 SCC w/Correction Factor-TEOM Gravimetric
3'
      then MethodDescription = 'PM2.5 SCC w/Correction Factor-TEOM
Gravimetric 30 deg C';
      if MethodDescription = 'PM2.5 SCC w/Correction Factor-TEOM Gravimetric
5'
      then MethodDescription = 'PM2.5 SCC w/Correction Factor-TEOM
Gravimetric 50 deg C';
      if MethodDescription = 'PM2.5 SSI w/Correction Factor-TEOM Gravimetric
3'
      then MethodDescription = 'PM2.5 SSI w/Correction Factor-TEOM
Gravimetric 30 deg C';
      if MethodDescription = 'PM2.5 SSI w/Correction Factor-TEOM Gravimetric
5'
      then MethodDescription = 'PM2.5 SSI w/Correction Factor-TEOM
Gravimetric 50 deg C';
      if MethodDescription = 'PM2.5 SSI w/No Correction Factor-TEOM
Gravimetri'
      then MethodDescription = 'PM2.5 SSI w/No Correction Factor-TEOM
Gravimetric 50 deg C';
      if MethodDescription = 'PM2.5 VSCC w/No Correction Factor-TEOM
Gravimetr'
      then MethodDescription = 'PM2.5 VSCC w/No Correction Factor-TEOM
Gravimetric 30 deg C';
run;
proc sort data = MERGE.nonfrm_2004_acceptable_hourly_R
              out = MERGE.nonfrm_2004_acceptable_hourly_R;
              by MethodDescription;
run;
*************************************************************************
************;
*********    The above approach is now repeated for the 2004 raw data type.
*************;

** The following code identifies sites with incorrect Method Description
labeling,
```

```
'PM2.5 SCC w/No Correction Factor-TEOM Gravimetri', from 2004_raw data set.
**;

data nonfrm_2004_raw_hourly_G; set MERGE.nonfrm_2004_raw_hourly;
      if MethodDescription = 'PM2.5 SCC w/No Correction Factor-TEOM
Gravimetri';
run;
proc freq data = nonfrm_2004_raw_hourly_G;
      title '2004_raw_hourly: Locations w/ Gravimetri';
      tables DataSourceReferenceID;
run;
data nonfrm_2004_raw_hourly_R; set MERGE.nonfrm_2004_raw_hourly;
      if DataSourceReferenceID in
            ('080010006885013',
             '080310013885013',
             '080350004885013',
             '081230006885013',
             '160050015885013',
             '160190013885013',
             '160270007885013',
             '160290003885013',
             '160450001885013',
             '160490003885013',
             '160590004885013',
             '160690013885013',
             '160690014885013',
             '180970078885013',
             '211110027885013',
             '211110043885013',
             '211110048885013',
             '211110051885013',
             '230010011885013',
             '230050027885013',
             '230090103885013',
             '230190002885013',
             '261530001885013',
             '330074002885013',
             '330090008885013',
             '330110020885013',
             '330115001885013',
             '370210034885013',
             '371190041885013',
             '371190042885013',
             '380070002885013',
             '380130002885013',
             '380130004885013',
             '380171004885013',
             '380250003885013',
             '380530002885013',
             '380570004885013',
             '380650002885013',
             '390610040885013',
             '390933002885013',
             '390950024885013',
             '390990014885013',
```

```
'401159005885013',
'420010001885013',
'420030008885013',
'420030064885013',
'420050001885013',
'420950025885013',
'450190046885014',
'450450008885014',
'461030020885013',
'470090101885013',
'480290053885013',
'480290055885013',
'480290059885013',
'480610006885013',
'481130069885013',
'481133003885013',
'481210034885013',
'481350003885013',
'481351014885013',
'481390015885013',
'481390017885013',
'481410037885013',
'481410053885013',
'481670014885013',
'482010024885013',
'482010026885013',
'482011034885013',
'482011035885013',
'482011039885013',
'482011042885013',
'482011050885013',
'482030002885013',
'482150043885013',
'482450020885013',
'482450021885013',
'482450022885013',
'482570005885013',
'482730314885013',
'483030001885013',
'483390078885013',
'483550025885013',
'483611100885013',
'483750005885013',
'484391006885013',
'484393008885013',
'484393009885013',
'484393011885013',
'484530014885013',
'484530020885013',
'484790313885013',
'510591005885013',
'510870014885013',
'511130003885013',
'516500004885013',
'517700015885013',
```

```
              '720170003885013');
keep DataSourceReferenceID MethodDescription DATE_REVISED Time24_REVISED;
run;



** The following code creates 2005-2007 sub-tables containing only
sites found to be problematic for 2004. **;

data nonfrm_2005_raw_hourly_R; set MERGE.nonfrm_2005_raw_hourly;
      if DataSourceReferenceID in
             ('080010006885013',
              '080310013885013',
              '080350004885013',
              '081230006885013',
              '160050015885013',
              '160190013885013',
              '160270007885013',
              '160290003885013',
              '160450001885013',
              '160490003885013',
              '160590004885013',
              '160690013885013',
              '160690014885013',
              '180970078885013',
              '211110027885013',
              '211110043885013',
              '211110048885013',
              '211110051885013',
              '230010011885013',
              '230050027885013',
              '230090103885013',
              '230190002885013',
              '261530001885013',
              '330074002885013',
              '330090008885013',
              '330110020885013',
              '330115001885013',
              '370210034885013',
              '371190041885013',
              '371190042885013',
              '380070002885013',
              '380130002885013',
              '380130004885013',
              '380171004885013',
              '380250003885013',
              '380530002885013',
              '380570004885013',
              '380650002885013',
              '390610040885013',
              '390933002885013',
              '390950024885013',
              '390990014885013',
              '401159005885013',
```

'420010001885013',
'420030008885013',
'420030064885013',
'420050001885013',
'420950025885013',
'450190046885014',
'450450008885014',
'461030020885013',
'470090101885013',
'480290053885013',
'480290055885013',
'480290059885013',
'480610006885013',
'481130069885013',
'481133003885013',
'481210034885013',
'481350003885013',
'481351014885013',
'481390015885013',
'481390017885013',
'481410037885013',
'481410053885013',
'481670014885013',
'482010024885013',
'482010026885013',
'482011034885013',
'482011035885013',
'482011039885013',
'482011042885013',
'482011050885013',
'482030002885013',
'482150043885013',
'482450020885013',
'482450021885013',
'482450022885013',
'482570005885013',
'482730314885013',
'483030001885013',
'483390078885013',
'483550025885013',
'483611100885013',
'483750005885013',
'484391006885013',
'484393008885013',
'484393009885013',
'484393011885013',
'484530014885013',
'484530020885013',
'484790313885013',
'510591005885013',
'510870014885013',
'511130003885013',
'516500004885013',
'517700015885013',
'720170003885013'

```
);
keep DataSourceReferenceID MethodDescription DATE_REVISED Time24_REVISED;
run;
data nonfrm_2006_raw_hourly_R; set MERGE.nonfrm_2006_raw_hourly;
      if DataSourceReferenceID in
             ('080010006885013',
              '080310013885013',
              '080350004885013',
              '081230006885013',
              '160050015885013',
              '160190013885013',
              '160270007885013',
              '160290003885013',
              '160450001885013',
              '160490003885013',
              '160590004885013',
              '160690013885013',
              '160690014885013',
              '180970078885013',
              '211110027885013',
              '211110043885013',
              '211110048885013',
              '211110051885013',
              '230010011885013',
              '230050027885013',
              '230090103885013',
              '230190002885013',
              '261530001885013',
              '330074002885013',
              '330090008885013',
              '330110020885013',
              '330115001885013',
              '370210034885013',
              '371190041885013',
              '371190042885013',
              '380070002885013',
              '380130002885013',
              '380130004885013',
              '380171004885013',
              '380250003885013',
              '380530002885013',
              '380570004885013',
              '380650002885013',
              '390610040885013',
              '390933002885013',
              '390950024885013',
              '390990014885013',
              '401159005885013',
              '420010001885013',
              '420030008885013',
              '420030064885013',
              '420050001885013',
              '420950025885013',
              '450190046885014',
              '450450008885014',
```

```
                '461030020885013',
                '470090101885013',
                '480290053885013',
                '480290055885013',
                '480290059885013',
                '480610006885013',
                '481130069885013',
                '481133003885013',
                '481210034885013',
                '481350003885013',
                '481351014885013',
                '481390015885013',
                '481390017885013',
                '481410037885013',
                '481410053885013',
                '481670014885013',
                '482010024885013',
                '482010026885013',
                '482011034885013',
                '482011035885013',
                '482011039885013',
                '482011042885013',
                '482011050885013',
                '482030002885013',
                '482150043885013',
                '482450020885013',
                '482450021885013',
                '482450022885013',
                '482570005885013',
                '482730314885013',
                '483030001885013',
                '483390078885013',
                '483550025885013',
                '483611100885013',
                '483750005885013',
                '484391006885013',
                '484393008885013',
                '484393009885013',
                '484393011885013',
                '484530014885013',
                '484530020885013',
                '484790313885013',
                '510591005885013',
                '510870014885013',
                '511130003885013',
                '516500004885013',
                '517700015885013',
                '720170003885013');
keep DataSourceReferenceID MethodDescription DATE_REVISED Time24_REVISED;
run;
data nonfrm_2007_raw_hourly_R; set MERGE.nonfrm_2007_raw_hourly;
      if DataSourceReferenceID in
             ('080010006885013',
              '080310013885013',
              '080350004885013',
```

```
'081230006885013',
'160050015885013',
'160190013885013',
'160270007885013',
'160290003885013',
'160450001885013',
'160490003885013',
'160590004885013',
'160690013885013',
'160690014885013',
'180970078885013',
'211110027885013',
'211110043885013',
'211110048885013',
'211110051885013',
'230010011885013',
'230050027885013',
'230090103885013',
'230190002885013',
'261530001885013',
'330074002885013',
'330090008885013',
'330110020885013',
'330115001885013',
'370210034885013',
'371190041885013',
'371190042885013',
'380070002885013',
'380130002885013',
'380130004885013',
'380171004885013',
'380250003885013',
'380530002885013',
'380570004885013',
'380650002885013',
'390610040885013',
'390933002885013',
'390950024885013',
'390990014885013',
'401159005885013',
'420010001885013',
'420030008885013',
'420030064885013',
'420050001885013',
'420950025885013',
'450190046885014',
'450450008885014',
'461030020885013',
'470090101885013',
'480290053885013',
'480290055885013',
'480290059885013',
'480610006885013',
'481130069885013',
'481133003885013',
```

```
                '481210034885013',
                '481350003885013',
                '481351014885013',
                '481390015885013',
                '481390017885013',
                '481410037885013',
                '481410053885013',
                '481670014885013',
                '482010024885013',
                '482010026885013',
                '482011034885013',
                '482011035885013',
                '482011039885013',
                '482011042885013',
                '482011050885013',
                '482030002885013',
                '482150043885013',
                '482450020885013',
                '482450021885013',
                '482450022885013',
                '482570005885013',
                '482730314885013',
                '483030001885013',
                '483390078885013',
                '483550025885013',
                '483611100885013',
                '483750005885013',
                '484391006885013',
                '484393008885013',
                '484393009885013',
                '484393011885013',
                '484530014885013',
                '484530020885013',
                '484790313885013',
                '510591005885013',
                '510870014885013',
                '511130003885013',
                '516500004885013',
                '517700015885013',
                '720170003885013');
keep DataSourceReferenceID MethodDescription DATE_REVISED Time24_REVISED;
run;


** The following code creates Site_Method Description combinations from
the sub-tables created by the above code.  These combinations are then
examined site by site to determine how to correct the truncated method
description (if possible)**;

proc freq data = nonfrm_2004_raw_hourly_R;
      title '2004_raw';
      tables DataSourceReferenceID*MethodDescription;
run;
proc freq data = nonfrm_2005_raw_hourly_R;
      title '2005_raw';
```

```
      tables DataSourceReferenceID*MethodDescription;
run;
proc freq data = nonfrm_2006_raw_hourly_R;
      title '2006_raw';
      tables DataSourceReferenceID*MethodDescription;
run;
proc freq data = nonfrm_2007_raw_hourly_R;
      title '2007_raw';
      tables DataSourceReferenceID*MethodDescription;
run;
data nonfrm_raw_hourly_R; set nonfrm_2004_raw_hourly_R
nonfrm_2005_raw_hourly_R
nonfrm_2006_raw_hourly_R nonfrm_2007_raw_hourly_R;
run;
proc sort data = nonfrm_raw_hourly_R;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;
proc freq data = nonfrm_raw_hourly_R;
      title 'raw';
      tables DataSourceReferenceID*MethodDescription;
run;


** The following code replaces "PM2.5 SCC w/No Correction Factor-TEOM
Gravimetri"
with "PM2.5 SCC w/No Correction Factor-TEOM Gravimetric 30 deg C" or "PM2.5
SCC
w/No Correction Factor-TEOM Gravimetric 50 deg C" based on the Site_Method
Description combinations recognized from the previous Proc Freq results. **;

data MERGE.nonfrm_2004_raw_hourly_R; set MERGE.nonfrm_2004_raw_hourly;
      if MethodDescription = 'PM2.5 SCC w/No Correction Factor-TEOM
Gravimetri' and
         DataSourceReferenceID in
('330090008885013','330110020885013','420010001885013',

'420050001885013','420950025885013','450190046885014','470090101885013')
      then MethodDescription = 'PM2.5 SCC w/No Correction Factor-TEOM
Gravimetric 30 deg C';
      if MethodDescription = 'PM2.5 SCC w/No Correction Factor-TEOM
Gravimetri' and
         DataSourceReferenceID in (
              '080350004885013',
              '160270007885013',
              '160490003885013',
              '160690013885013',
              '160690014885013',
              '180970078885013',
              '211110027885013',
              '211110043885013',
              '211110048885013',
              '211110051885013',
              '230010011885013',
              '230050027885013',
              '230090103885013',
```

```
'230190002885013',
'261530001885013',
'330074002885013',
'330115001885013',
'370210034885013',
'371190041885013',
'371190042885013',
'380130002885013',
'380250003885013',
'390610040885013',
'390933002885013',
'390950024885013',
'390990014885013',
'401159005885013',
'420030008885013',
'420030064885013',
'461030020885013',
'480290053885013',
'480290055885013',
'480290059885013',
'480610006885013',
'481130069885013',
'481133003885013',
'481210034885013',
'481350003885013',
'481351014885013',
'481390015885013',
'481390017885013',
'481410037885013',
'481410053885013',
'481670014885013',
'482010024885013',
'482010026885013',
'482011034885013',
'482011035885013',
'482011039885013',
'482011042885013',
'482011050885013',
'482030002885013',
'482150043885013',
'482450020885013',
'482450021885013',
'482450022885013',
'482570005885013',
'482730314885013',
'483030001885013',
'483390078885013',
'483550025885013',
'483611100885013',
'483750005885013',
'484391006885013',
'484393008885013',
'484393009885013',
'484393011885013',
'484530014885013',
```

```
                '484530020885013',
                '484790313885013',
                '510591005885013',
                '510870014885013',
                '511130003885013',
                '516500004885013',
                '517700015885013',
                '720170003885013')
      then MethodDescription = 'PM2.5 SCC w/No Correction Factor-TEOM
Gravimetric 50 deg C';
run;




** The following code corrects the rest of the labeling errors. **;

data MERGE.nonfrm_2004_raw_hourly_R; set MERGE.nonfrm_2004_raw_hourly_R;
      if MethodDescription = 'PM2.5 SCC w/Correction Factor-TEOM Gravimetric
3'
      then MethodDescription = 'PM2.5 SCC w/Correction Factor-TEOM
Gravimetric 30 deg C';
      if MethodDescription = 'PM2.5 SCC w/Correction Factor-TEOM Gravimetric
5'
      then MethodDescription = 'PM2.5 SCC w/Correction Factor-TEOM
Gravimetric 50 deg C';
      if MethodDescription = 'PM2.5 SSI w/No Correction Factor-TEOM
Gravimetri'
      then MethodDescription = 'PM2.5 SSI w/No Correction Factor-TEOM
Gravimetric 50 deg C';
      if MethodDescription = 'PM2.5 WINS w/No Correction Factor-TEOM
Gravimetr'
      then MethodDescription = 'PM2.5 WINS w/No Correction Factor-TEOM
Gravimetric 30 deg C';
      if MethodDescription = 'PM2.5 VSCC w/No Correction Factor-TEOM
Gravimetr'
      then MethodDescription = 'PM2.5 VSCC w/No Correction Factor-TEOM
Gravimetric 30 deg C';
run;
*************************************************************************
************;
```

Program10_NonFRM_adjust_for_BDL

This program adjusts the hourly semi-continuous values reported as below the detection limit (BDL) to half the detection limit or 0, whichever is greater. (**Note:** AQS reports 'negative' detection limits.)

```
************************     PROGRAM NUMBER 10
*******************************;

*************************************************************************
**********
Non-FRM: Prep #4
This program is one of 5 prep tasks written to bring original Non-FRM
data tables into clean and compatible forms with the corresponding FRM data.
The series
of 5 prep programs begins with input files named "nonfrm_YYYY_PARAMETER" and
ends with
output files named "nonfrm_YYYY_PARAMETER_Final", where YYYY is a year 2004 -
2007 and
PARAMETER is acceptable, atmospheric, raw, or volatile (2006 & 2007 only).
*************************************************************************
********** ;

*************************************************************************
**********
Prep #4 replaces hourly measurement values reported as less than 0 and/or
less than MDL
with the larger of ½ *MDL or 0. (Note: AQS reported some detection limits as
< 0.)

Prep #4 Input File: NonFRM_YYYY_PARAMETER_Hourly
Prep #4 Output File: NonFRM_YYYY_PARAMETER_CORR, where YYYY is a year 2004 -
2007
and PARAMETER is acceptable, atmospheric, raw, or volatile (2006 & 2007
only).

For 2004_acceptable & 2004_raw,
Prep #4 Input File: NonFRM_2004_PARAMETER_Hourly_R
Prep #4 Output File: NonFRM_2004_PARAMETER_CORR_R.

All output data sets are sorted by site identifier, date, and time.
*************************************************************************
********** ;



libname MERGE "J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM Data\REVISED\MERGE";



** NOTE: "MinimumDetectableLimit" does NOT contain missing values for any
hourly data set. **;
** NOTE: "MeasurementValue" does NOT contain missing values for any hourly
data set. **;
```

```
data MERGE.NonFRM_2004_atmospheric_CORR; set
MERGE.NonFRM_2004_atmospheric_Hourly;
      if MinimumDetectableLimit < 0 then MDL_Corrected = 0;
      else MDL_Corrected = MinimumDetectableLimit;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2004_atmospheric_CORR out =
NonFRM_2004_atmospheric_CORR_S;
      by MDL_Corrected;
run;
data MERGE.NonFRM_2004_atmospheric_CORR; set
MERGE.NonFRM_2004_atmospheric_CORR;
      if MeasurementValue < MDL_Corrected then MeasurementValue_Corrected =
MDL_Corrected/2;
      else MeasurementValue_Corrected = MeasurementValue;
      keep AQSParameterDescription DataSourceReferenceID Year
MeasurementValue MethodDescription
            MinimumDetectableLimit DATE_REVISED Time24_REVISED Site_ID
MDL_Corrected MeasurementValue_Corrected;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2004_atmospheric_CORR out =
NonFRM_2004_atmospheric_CORR_S2;
      by MeasurementValue_Corrected;
run;
proc sort data = MERGE.NonFRM_2004_atmospheric_CORR out =
MERGE.NonFRM_2004_atmospheric_CORR;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;


data MERGE.NonFRM_2005_acceptable_CORR; set
MERGE.NonFRM_2005_acceptable_Hourly;
      if MinimumDetectableLimit < 0 then MDL_Corrected = 0;
      else MDL_Corrected = MinimumDetectableLimit;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2005_acceptable_CORR out =
NonFRM_2005_acceptable_CORR_S;
      by MDL_Corrected;
run;
data MERGE.NonFRM_2005_acceptable_CORR; set
MERGE.NonFRM_2005_acceptable_CORR;
      if MeasurementValue < MDL_Corrected then MeasurementValue_Corrected =
MDL_Corrected/2;
      else MeasurementValue_Corrected = MeasurementValue;
      keep AQSParameterDescription DataSourceReferenceID Year
MeasurementValue MethodDescription
            MinimumDetectableLimit DATE_REVISED Time24_REVISED Site_ID
MDL_Corrected MeasurementValue_Corrected;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2005_acceptable_CORR out =
NonFRM_2005_acceptable_CORR_S2;
      by MeasurementValue_Corrected;
```

```
run;
proc sort data = MERGE.NonFRM_2005_acceptable_CORR out =
MERGE.NonFRM_2005_acceptable_CORR;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;


data MERGE.NonFRM_2005_atmospheric_CORR; set
MERGE.NonFRM_2005_atmospheric_Hourly;
      if MinimumDetectableLimit < 0 then MDL_Corrected = 0;
      else MDL_Corrected = MinimumDetectableLimit;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2005_atmospheric_CORR out =
NonFRM_2005_atmospheric_CORR_S;
      by MDL_Corrected;
run;
data MERGE.NonFRM_2005_atmospheric_CORR; set
MERGE.NonFRM_2005_atmospheric_CORR;
      if MeasurementValue < MDL_Corrected then MeasurementValue_Corrected =
MDL_Corrected/2;
      else MeasurementValue_Corrected = MeasurementValue;
      keep AQSParameterDescription DataSourceReferenceID Year
MeasurementValue MethodDescription
            MinimumDetectableLimit DATE_REVISED Time24_REVISED Site_ID
MDL_Corrected MeasurementValue_Corrected;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2005_atmospheric_CORR out =
NonFRM_2005_atmospheric_CORR_S2;
      by MeasurementValue_Corrected;
run;
proc sort data = MERGE.NonFRM_2005_atmospheric_CORR out =
MERGE.NonFRM_2005_atmospheric_CORR;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;


data MERGE.NonFRM_2005_raw_CORR; set MERGE.NonFRM_2005_raw_Hourly;
      if MinimumDetectableLimit < 0 then MDL_Corrected = 0;
      else MDL_Corrected = MinimumDetectableLimit;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2005_raw_CORR out = NonFRM_2005_raw_CORR_S;
      by MDL_Corrected;
run;
data MERGE.NonFRM_2005_raw_CORR; set MERGE.NonFRM_2005_raw_CORR;
      if MeasurementValue < MDL_Corrected then MeasurementValue_Corrected =
MDL_Corrected/2;
      else MeasurementValue_Corrected = MeasurementValue;
      keep AQSParameterDescription DataSourceReferenceID Year
MeasurementValue MethodDescription
            MinimumDetectableLimit DATE_REVISED Time24_REVISED Site_ID
MDL_Corrected MeasurementValue_Corrected;
run;
```

```
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2005_raw_CORR out = NonFRM_2005_raw_CORR_S2;
      by MeasurementValue_Corrected;
run;
proc sort data = MERGE.NonFRM_2005_raw_CORR out = MERGE.NonFRM_2005_raw_CORR;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;


data MERGE.NonFRM_2006_acceptable_CORR; set
MERGE.NonFRM_2006_acceptable_Hourly;
      if MinimumDetectableLimit < 0 then MDL_Corrected = 0;
      else MDL_Corrected = MinimumDetectableLimit;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2006_acceptable_CORR out =
NonFRM_2006_acceptable_CORR_S;
      by MDL_Corrected;
run;
data MERGE.NonFRM_2006_acceptable_CORR; set
MERGE.NonFRM_2006_acceptable_CORR;
      if MeasurementValue < MDL_Corrected then MeasurementValue_Corrected =
MDL_Corrected/2;
      else MeasurementValue_Corrected = MeasurementValue;
      keep AQSParameterDescription DataSourceReferenceID Year
MeasurementValue MethodDescription
            MinimumDetectableLimit DATE_REVISED Time24_REVISED Site_ID
MDL_Corrected MeasurementValue_Corrected;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2006_acceptable_CORR out =
NonFRM_2006_acceptable_CORR_S2;
      by MeasurementValue_Corrected;
run;
proc sort data = MERGE.NonFRM_2006_acceptable_CORR out =
MERGE.NonFRM_2006_acceptable_CORR;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;


data MERGE.NonFRM_2006_atmospheric_CORR; set
MERGE.NonFRM_2006_atmospheric_Hourly;
      if MinimumDetectableLimit < 0 then MDL_Corrected = 0;
      else MDL_Corrected = MinimumDetectableLimit;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2006_atmospheric_CORR out =
NonFRM_2006_atmospheric_CORR_S;
      by MDL_Corrected;
run;
data MERGE.NonFRM_2006_atmospheric_CORR; set
MERGE.NonFRM_2006_atmospheric_CORR;
      if MeasurementValue < MDL_Corrected then MeasurementValue_Corrected =
MDL_Corrected/2;
      else MeasurementValue_Corrected = MeasurementValue;
```

```
      keep AQSParameterDescription DataSourceReferenceID Year
MeasurementValue MethodDescription
            MinimumDetectableLimit DATE_REVISED Time24_REVISED Site_ID
MDL_Corrected MeasurementValue_Corrected;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2006_atmospheric_CORR out =
NonFRM_2006_atmospheric_CORR_S2;
      by MeasurementValue_Corrected;
run;
proc sort data = MERGE.NonFRM_2006_atmospheric_CORR out =
MERGE.NonFRM_2006_atmospheric_CORR;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;


data MERGE.NonFRM_2006_raw_CORR; set MERGE.NonFRM_2006_raw_Hourly;
      if MinimumDetectableLimit < 0 then MDL_Corrected = 0;
      else MDL_Corrected = MinimumDetectableLimit;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2006_raw_CORR out = NonFRM_2006_raw_CORR_S;
      by MDL_Corrected;
run;
data MERGE.NonFRM_2006_raw_CORR; set MERGE.NonFRM_2006_raw_CORR;
      if MeasurementValue < MDL_Corrected then MeasurementValue_Corrected =
MDL_Corrected/2;
      else MeasurementValue_Corrected = MeasurementValue;
      keep AQSParameterDescription DataSourceReferenceID Year
MeasurementValue MethodDescription
            MinimumDetectableLimit DATE_REVISED Time24_REVISED Site_ID
MDL_Corrected MeasurementValue_Corrected;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2006_raw_CORR out = NonFRM_2006_raw_CORR_S2;
      by MeasurementValue_Corrected;
run;
proc sort data = MERGE.NonFRM_2006_raw_CORR out = MERGE.NonFRM_2006_raw_CORR;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;


data MERGE.NonFRM_2006_volatile_CORR; set MERGE.NonFRM_2006_volatile_Hourly;
      if MinimumDetectableLimit < 0 then MDL_Corrected = 0;
      else MDL_Corrected = MinimumDetectableLimit;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2006_volatile_CORR out =
NonFRM_2006_volatile_CORR_S;
      by MDL_Corrected;
run;
data MERGE.NonFRM_2006_volatile_CORR; set MERGE.NonFRM_2006_volatile_CORR;
      if MeasurementValue < MDL_Corrected then MeasurementValue_Corrected =
MDL_Corrected/2;
      else MeasurementValue_Corrected = MeasurementValue;
```

```
      keep AQSParameterDescription DataSourceReferenceID Year
MeasurementValue MethodDescription
            MinimumDetectableLimit DATE_REVISED Time24_REVISED Site_ID
MDL_Corrected MeasurementValue_Corrected;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2006_volatile_CORR out =
NonFRM_2006_volatile_CORR_S2;
      by MeasurementValue_Corrected;
run;
proc sort data = MERGE.NonFRM_2006_volatile_CORR out =
MERGE.NonFRM_2006_volatile_CORR;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;


data MERGE.NonFRM_2007_acceptable_CORR; set
MERGE.NonFRM_2007_acceptable_Hourly;
      if MinimumDetectableLimit < 0 then MDL_Corrected = 0;
      else MDL_Corrected = MinimumDetectableLimit;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2007_acceptable_CORR out =
NonFRM_2007_acceptable_CORR_S;
      by MDL_Corrected;
run;
data MERGE.NonFRM_2007_acceptable_CORR; set
MERGE.NonFRM_2007_acceptable_CORR;
      if MeasurementValue < MDL_Corrected then MeasurementValue_Corrected =
MDL_Corrected/2;
      else MeasurementValue_Corrected = MeasurementValue;
      keep AQSParameterDescription DataSourceReferenceID Year
MeasurementValue MethodDescription
            MinimumDetectableLimit DATE_REVISED Time24_REVISED Site_ID
MDL_Corrected MeasurementValue_Corrected;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2007_acceptable_CORR out =
NonFRM_2007_acceptable_CORR_S2;
      by MeasurementValue_Corrected;
run;
proc sort data = MERGE.NonFRM_2007_acceptable_CORR out =
MERGE.NonFRM_2007_acceptable_CORR;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;


data MERGE.NonFRM_2007_atmospheric_CORR; set
MERGE.NonFRM_2007_atmospheric_Hourly;
      if MinimumDetectableLimit < 0 then MDL_Corrected = 0;
      else MDL_Corrected = MinimumDetectableLimit;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2007_atmospheric_CORR out =
NonFRM_2007_atmospheric_CORR_S;
```

```
      by MDL_Corrected;
run;
data MERGE.NonFRM_2007_atmospheric_CORR; set
MERGE.NonFRM_2007_atmospheric_CORR;
      if MeasurementValue < MDL_Corrected then MeasurementValue_Corrected =
MDL_Corrected/2;
      else MeasurementValue_Corrected = MeasurementValue;
      keep AQSParameterDescription DataSourceReferenceID Year
MeasurementValue MethodDescription
            MinimumDetectableLimit DATE_REVISED Time24_REVISED Site_ID
MDL_Corrected MeasurementValue_Corrected;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2007_atmospheric_CORR out =
NonFRM_2007_atmospheric_CORR_S2;
      by MeasurementValue_Corrected;
run;
proc sort data = MERGE.NonFRM_2007_atmospheric_CORR out =
MERGE.NonFRM_2007_atmospheric_CORR;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;


data MERGE.NonFRM_2007_raw_CORR; set MERGE.NonFRM_2007_raw_Hourly;
      if MinimumDetectableLimit < 0 then MDL_Corrected = 0;
      else MDL_Corrected = MinimumDetectableLimit;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2007_raw_CORR out = NonFRM_2007_raw_CORR_S;
      by MDL_Corrected;
run;
data MERGE.NonFRM_2007_raw_CORR; set MERGE.NonFRM_2007_raw_CORR;
      if MeasurementValue < MDL_Corrected then MeasurementValue_Corrected =
MDL_Corrected/2;
      else MeasurementValue_Corrected = MeasurementValue;
      keep AQSParameterDescription DataSourceReferenceID Year
MeasurementValue MethodDescription
            MinimumDetectableLimit DATE_REVISED Time24_REVISED Site_ID
MDL_Corrected MeasurementValue_Corrected;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2007_raw_CORR out = NonFRM_2007_raw_CORR_S2;
      by MeasurementValue_Corrected;
run;
proc sort data = MERGE.NonFRM_2007_raw_CORR out = MERGE.NonFRM_2007_raw_CORR;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;


data MERGE.NonFRM_2007_volatile_CORR; set MERGE.NonFRM_2007_volatile_Hourly;
      if MinimumDetectableLimit < 0 then MDL_Corrected = 0;
      else MDL_Corrected = MinimumDetectableLimit;
run;
** CHECKING. Looks OK **;
```

```
proc sort data = MERGE.NonFRM_2007_volatile_CORR out =
NonFRM_2007_volatile_CORR_S;
      by MDL_Corrected;
run;
data MERGE.NonFRM_2007_volatile_CORR; set MERGE.NonFRM_2007_volatile_CORR;
      if MeasurementValue < MDL_Corrected then MeasurementValue_Corrected =
MDL_Corrected/2;
      else MeasurementValue_Corrected = MeasurementValue;
      keep AQSParameterDescription DataSourceReferenceID Year
MeasurementValue MethodDescription
            MinimumDetectableLimit DATE_REVISED Time24_REVISED Site_ID
MDL_Corrected MeasurementValue_Corrected;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2007_volatile_CORR out =
NonFRM_2007_volatile_CORR_S2;
      by MeasurementValue_Corrected;
run;
proc sort data = MERGE.NonFRM_2007_volatile_CORR out =
MERGE.NonFRM_2007_volatile_CORR;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;


data MERGE.NonFRM_2004_acceptable_CORR_R; set
MERGE.NonFRM_2004_acceptable_Hourly_R;
      if MinimumDetectableLimit < 0 then MDL_Corrected = 0;
      else MDL_Corrected = MinimumDetectableLimit;
run;
data MERGE.NonFRM_2004_acceptable_CORR_R; set
MERGE.NonFRM_2004_acceptable_CORR_R;
      if MeasurementValue < MDL_Corrected then MeasurementValue_Corrected =
MDL_Corrected/2;
      else MeasurementValue_Corrected = MeasurementValue;
      keep AQSParameterDescription DataSourceReferenceID Year
MeasurementValue MethodDescription
            MinimumDetectableLimit DATE_REVISED Time24_REVISED Site_ID
MDL_Corrected MeasurementValue_Corrected;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2004_acceptable_CORR_R out =
NonFRM_2004_acceptable_CORR_R;
      by MeasurementValue_Corrected;
run;
proc sort data = MERGE.NonFRM_2004_acceptable_CORR_R out =
MERGE.NonFRM_2004_acceptable_CORR_R;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;


data MERGE.NonFRM_2004_raw_CORR_R; set MERGE.NonFRM_2004_raw_Hourly_R;
      if MinimumDetectableLimit < 0 then MDL_Corrected = 0;
      else MDL_Corrected = MinimumDetectableLimit;
run;
```

```
data MERGE.NonFRM_2004_raw_CORR_R; set MERGE.NonFRM_2004_raw_CORR_R;
      if MeasurementValue < MDL_Corrected then MeasurementValue_Corrected =
MDL_Corrected/2;
      else MeasurementValue_Corrected = MeasurementValue;
      keep AQSParameterDescription DataSourceReferenceID Year
MeasurementValue MethodDescription
            MinimumDetectableLimit DATE_REVISED Time24_REVISED Site_ID
MDL_Corrected MeasurementValue_Corrected;
run;
** CHECKING. Looks OK **;
proc sort data = MERGE.NonFRM_2004_raw_CORR_R out = NonFRM_2004_raw_CORR_R;
      by MeasurementValue_Corrected;
run;
proc sort data = MERGE.NonFRM_2004_raw_CORR_R out =
MERGE.NonFRM_2004_raw_CORR_R;
      by DataSourceReferenceID DATE_REVISED Time24_REVISED;
run;
**************************************************************************
********** ;
```

Program10-5QA_after_Program10_Univariate_on_BDL_adjusted
This program compares the "before and after" results of the BDL adjustments through PROC UNIVARIATE.

```
************************    Program Number 10.5 -- QA
*******************************;

*************************************************************************
***********
This program gives data summary on "Before" and "After" the BDL adjustment
for the 14
non-FRM data sets.

SAS Output File: ProcUnivariate_CORRECTED.lst
*************************************************************************
***********
libname MERGE "J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM Data\REVISED\MERGE";

proc univariate data=MERGE.nonfrm_2004_acceptable_corr_R;
      var MeasurementValue MeasurementValue_Corrected;
      title 'NonFRM_2004_ACCEPTABLE';

proc univariate data=MERGE.nonfrm_2004_atmospheric_corr;
      var MeasurementValue MeasurementValue_Corrected;
      title 'NonFRM_2004_ATMOSPHERIC';

proc univariate data=MERGE.nonfrm_2004_raw_corr_R;
      var MeasurementValue MeasurementValue_Corrected;
      title 'NonFRM_2004_RAW';

proc univariate data=MERGE.nonfrm_2005_acceptable_corr;
      var MeasurementValue MeasurementValue_Corrected;
      title 'NonFRM_2005_ACCEPTABLE';

proc univariate data=MERGE.nonfrm_2005_atmospheric_corr;
      var MeasurementValue MeasurementValue_Corrected;
      title 'NonFRM_2005_ATMOSPHERIC';

proc univariate data=MERGE.nonfrm_2005_raw_corr;
      var MeasurementValue MeasurementValue_Corrected;
      title 'NonFRM_2005_RAW';

proc univariate data=MERGE.nonfrm_2006_acceptable_corr;
      var MeasurementValue MeasurementValue_Corrected;
      title 'NonFRM_2006_ACCEPTABLE';

proc univariate data=MERGE.nonfrm_2006_atmospheric_corr;
      var MeasurementValue MeasurementValue_Corrected;
      title 'NonFRM_2006_ATMOSPHERIC';

proc univariate data=MERGE.nonfrm_2006_raw_corr;
      var MeasurementValue MeasurementValue_Corrected;
      title 'NonFRM_2006_RAW';
```

```
proc univariate data=MERGE.nonfrm_2006_volatile_corr;
      var MeasurementValue MeasurementValue_Corrected;
      title 'NonFRM_2006_VOLATILE';

proc univariate data=MERGE.nonfrm_2007_acceptable_corr;
      var MeasurementValue MeasurementValue_Corrected;
      title 'NonFRM_2007_ACCEPTABLE';

proc univariate data=MERGE.nonfrm_2007_atmospheric_corr;
      var MeasurementValue MeasurementValue_Corrected;
      title 'NonFRM_2007_ATMOSPHERIC';

proc univariate data=MERGE.nonfrm_2007_raw_corr;
      var MeasurementValue MeasurementValue_Corrected;
      title 'NonFRM_2007_RAW';

proc univariate data=MERGE.nonfrm_2007_volatile_corr;
      var MeasurementValue MeasurementValue_Corrected;
      title 'NonFRM_2007_VOLATILE';
run;
```

Program11_NonFRM_avg_daily
This program calculates daily means from the hourly semi-continuous values.

```
*****************     PROGRAM NUMBER 11     ************************;


*************************************************************************
**********
Non-FRM: Prep #5
This program is one of 5 prep tasks written to bring original Non-FRM
data tables into clean and compatible forms with the corresponding FRM data.
Series of
5 prep programs begin with input files named "nonfrm_YYYY_PARAMETER" and end
with
output files named "nonfrm_YYYY_PARAMETER_Final", where YYYY is a year 2004 -
2007 and
PARAMETER is acceptable, atmospheric, raw, or volatile (2006 & 2007 only).
*************************************************************************
********** ;

*************************************************************************
**********
Prep #5 calculates daily mean values for each site. In other words, each site
will have
only one record per day once this program is run. This program then replaces
the values
with a decimal point (i.e., missing value) for those days with the number of
hourly
values reported as less than 18.
Note that 'volatile' has been excluded from this program as it was decided to
exclude
this method type from the further analyses.

Prep #5 Input File: nonfrm_YYYY_PARAMETER_corr
Prep #5 Output File: nonfrm_YYYY_PARAMETER_FINAL, where YYYY is a year 2004 -
2007
and PARAMETER is acceptable, atmospheric or raw.

For 2004_acceptable & 2004_raw,
Prep #5 Input File: nonfrm_2004_PARAMETER_corr_R
Prep #5 Output File: nonfrm_2004_PARAMETER_FINAL_R.
*************************************************************************
********** ;


libname MERGE "J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM Data\REVISED\MERGE";


Proc Sort data=MERGE.nonfrm_2004_atmospheric_corr;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
run;
proc means  data=MERGE.nonfrm_2004_atmospheric_corr mean n noprint;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
```

```
      id MethodDescription Site_ID;
      var MeasurementValue_Corrected;
      output out=nonfrm_2004_atmospheric_FINAL mean = CorrectedValue_NonFRM n
= n_NonFRM;
run;
data MERGE.nonfrm_2004_atmospheric_FINAL; set nonfrm_2004_atmospheric_FINAL;
      if n_NonFRM < 18 then  CorrectedValue_NonFRM = .;
      else CorrectedValue_NonFRM = CorrectedValue_NonFRM;
      drop _TYPE_ _FREQ_;
run;


Proc Sort data=MERGE.nonfrm_2005_acceptable_corr;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
run;
proc means  data=MERGE.nonfrm_2005_acceptable_corr mean n noprint;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
      id MethodDescription Site_ID;
      var MeasurementValue_Corrected;
      output out=nonfrm_2005_acceptable_FINAL mean = CorrectedValue_NonFRM n
= n_NonFRM;
run;
data MERGE.nonfrm_2005_acceptable_FINAL; set nonfrm_2005_acceptable_FINAL;
      if n_NonFRM < 18 then  CorrectedValue_NonFRM = .;
      else CorrectedValue_NonFRM = CorrectedValue_NonFRM;
      drop _TYPE_ _FREQ_;
run;


Proc Sort data=MERGE.nonfrm_2005_atmospheric_corr;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
run;
proc means  data=MERGE.nonfrm_2005_atmospheric_corr mean n noprint;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
      id MethodDescription Site_ID;
      var MeasurementValue_Corrected;
      output out=nonfrm_2005_atmospheric_FINAL mean = CorrectedValue_NonFRM n
= n_NonFRM;
run;
data MERGE.nonfrm_2005_atmospheric_FINAL; set nonfrm_2005_atmospheric_FINAL;
      if n_NonFRM < 18 then  CorrectedValue_NonFRM = .;
      else CorrectedValue_NonFRM = CorrectedValue_NonFRM;
      drop _TYPE_ _FREQ_;
run;


Proc Sort data=MERGE.nonfrm_2005_raw_corr;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
run;
proc means  data=MERGE.nonfrm_2005_raw_corr mean n noprint;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
      id MethodDescription Site_ID;
      var MeasurementValue_Corrected;
      output out=nonfrm_2005_raw_FINAL mean = CorrectedValue_NonFRM n =
n_NonFRM;
```

```
run;
data MERGE.nonfrm_2005_raw_FINAL; set nonfrm_2005_raw_FINAL;
      if n_NonFRM < 18 then  CorrectedValue_NonFRM = .;
      else CorrectedValue_NonFRM = CorrectedValue_NonFRM;
      drop _TYPE_ _FREQ_;
run;


Proc Sort data=MERGE.nonfrm_2006_acceptable_corr;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
run;
proc means  data=MERGE.nonfrm_2006_acceptable_corr mean n noprint;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
      id MethodDescription Site_ID;
      var MeasurementValue_Corrected;
      output out=nonfrm_2006_acceptable_FINAL mean = CorrectedValue_NonFRM n
= n_NonFRM;
run;
data MERGE.nonfrm_2006_acceptable_FINAL; set nonfrm_2006_acceptable_FINAL;
      if n_NonFRM < 18 then  CorrectedValue_NonFRM = .;
      else CorrectedValue_NonFRM = CorrectedValue_NonFRM;
      drop _TYPE_ _FREQ_;
run;


Proc Sort data=MERGE.nonfrm_2006_atmospheric_corr;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
run;
proc means  data=MERGE.nonfrm_2006_atmospheric_corr mean n noprint;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
      id MethodDescription Site_ID;
      var MeasurementValue_Corrected;
      output out=nonfrm_2006_atmospheric_FINAL mean = CorrectedValue_NonFRM n
= n_NonFRM;
run;
data MERGE.nonfrm_2006_atmospheric_FINAL; set nonfrm_2006_atmospheric_FINAL;
      if n_NonFRM < 18 then  CorrectedValue_NonFRM = .;
      else CorrectedValue_NonFRM = CorrectedValue_NonFRM;
      drop _TYPE_ _FREQ_;
run;


Proc Sort data=MERGE.nonfrm_2006_raw_corr;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
run;
proc means  data=MERGE.nonfrm_2006_raw_corr mean n noprint;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
      id MethodDescription Site_ID;
      var MeasurementValue_Corrected;
      output out=nonfrm_2006_raw_FINAL mean = CorrectedValue_NonFRM n =
n_NonFRM;
run;
data MERGE.nonfrm_2006_raw_FINAL; set nonfrm_2006_raw_FINAL;
      if n_NonFRM < 18 then  CorrectedValue_NonFRM = .;
      else CorrectedValue_NonFRM = CorrectedValue_NonFRM;
```

```
      drop _TYPE_ _FREQ_;
run;


Proc Sort data=MERGE.nonfrm_2007_acceptable_corr;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
run;
proc means  data=MERGE.nonfrm_2007_acceptable_corr mean n noprint;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
      id MethodDescription Site_ID;
      var MeasurementValue_Corrected;
      output out=nonfrm_2007_acceptable_FINAL mean = CorrectedValue_NonFRM n
= n_NonFRM;
run;
data MERGE.nonfrm_2007_acceptable_FINAL; set nonfrm_2007_acceptable_FINAL;
      if n_NonFRM < 18 then  CorrectedValue_NonFRM = .;
      else CorrectedValue_NonFRM = CorrectedValue_NonFRM;
      drop _TYPE_ _FREQ_;
run;


Proc Sort data=MERGE.nonfrm_2007_atmospheric_corr;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
run;
proc means  data=MERGE.nonfrm_2007_atmospheric_corr mean n noprint;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
      id MethodDescription Site_ID;
      var MeasurementValue_Corrected;
      output out=nonfrm_2007_atmospheric_FINAL mean = CorrectedValue_NonFRM n
= n_NonFRM;
run;
data MERGE.nonfrm_2007_atmospheric_FINAL; set nonfrm_2007_atmospheric_FINAL;
      if n_NonFRM < 18 then  CorrectedValue_NonFRM = .;
      else CorrectedValue_NonFRM = CorrectedValue_NonFRM;
      drop _TYPE_ _FREQ_;
run;


Proc Sort data=MERGE.nonfrm_2007_raw_corr;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
run;
proc means  data=MERGE.nonfrm_2007_raw_corr mean n noprint;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
      id MethodDescription Site_ID;
      var MeasurementValue_Corrected;
      output out=nonfrm_2007_raw_FINAL mean = CorrectedValue_NonFRM n =
n_NonFRM;
run;
data MERGE.nonfrm_2007_raw_FINAL; set nonfrm_2007_raw_FINAL;
      if n_NonFRM < 18 then  CorrectedValue_NonFRM = .;
      else CorrectedValue_NonFRM = CorrectedValue_NonFRM;
      drop _TYPE_ _FREQ_;
run;
Proc Sort data=MERGE.nonfrm_2004_acceptable_corr_R;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
```

```
run;
proc means  data=MERGE.nonfrm_2004_acceptable_corr_R mean n noprint;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
      id MethodDescription Site_ID;
      var MeasurementValue_Corrected;
      output out=nonfrm_2004_acceptable_FINAL_R mean = CorrectedValue_NonFRM
n = n_NonFRM;
run;
data MERGE.nonfrm_2004_acceptable_FINAL_R; set
nonfrm_2004_acceptable_FINAL_R;
      if n_NonFRM < 18 then  CorrectedValue_NonFRM = .;
      else CorrectedValue_NonFRM = CorrectedValue_NonFRM;
      drop _TYPE_ _FREQ_;
run;


Proc Sort data=MERGE.nonfrm_2004_raw_corr_R;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
run;
proc means  data=MERGE.nonfrm_2004_raw_corr_R mean n noprint;
      by DataSourceReferenceID MethodDescription DATE_REVISED;
      id MethodDescription Site_ID;
      var MeasurementValue_Corrected;
      output out=nonfrm_2004_raw_FINAL_R mean = CorrectedValue_NonFRM n =
n_NonFRM;
run;
data MERGE.nonfrm_2004_raw_FINAL_R; set nonfrm_2004_raw_FINAL_R;
      if n_NonFRM < 18 then  CorrectedValue_NonFRM = .;
      else CorrectedValue_NonFRM = CorrectedValue_NonFRM;
      drop _TYPE_ _FREQ_;
run;
**************************************************************************
********** ;
```

Program12_merge_FRM_NonFRM
This program merges the FRM and semi-continuous data by date.

```
*************************     PROGRAM NUMBER 12
*************************;

*******************************************************************************
*************
This program merges corresponding FRM and non-FRM data by date.

Input File : FRM_YYYY_FINAL & nonfrm_YYYY_PARAMETER_Final
                  (FRM_2004_FINAL & nonfrm_2004_PARAMETER_Final_R for
2004_acceptable & 2004_raw)
Output File: MERGED_YYYY_PARAMETER, where YYYY is a year 2004 - 2007 and
PARAMETER is
                 acceptable, atmospheric, or raw.

Final data sets are sorted by site identification and date.
*******************************************************************************
*************;


libname MERGE 'J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM Data\REVISED\MERGE';
libname FRM 'J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM Data\REVISED\MERGE\SAS FRM
Data';
libname FINAL 'J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM
Data\REVISED\MERGE\MERGE_FINAL';



Proc Sort data=MERGE.nonfrm_2004_atmospheric_final;
      by Site_ID DATE_REVISED;
run;
Proc Sort data=FRM.frm_2004_final;
      by Site_ID DATE_REVISED;
run;
data MERGED_2004_atmospheric;
      merge MERGE.nonfrm_2004_atmospheric_final(in=inNonFRM)
FRM.frm_2004_final(in=inFRM);
      by Site_ID DATE_REVISED;
      if inNonFRM and inFRM;
run;
data MERGED_2004_atmospheric;
      set MERGED_2004_atmospheric;
run;
Proc sort data = MERGED_2004_atmospheric out = FINAL.MERGED_2004_atmospheric;
      by DataSourceReferenceID DATE_REVISED;
run;


Proc Sort data=MERGE.nonfrm_2005_acceptable_final;
      by Site_ID DATE_REVISED;
run;
```

```
Proc Sort data=FRM.frm_2005_final;
      by Site_ID DATE_REVISED;
run;
data MERGED_2005_Acceptable;
      merge MERGE.nonfrm_2005_acceptable_final(in=inNonFRM)
FRM.frm_2005_final(in=inFRM);
      by Site_ID DATE_REVISED;
      if inNonFRM and inFRM;
run;
data MERGED_2005_Acceptable;
      set MERGED_2005_Acceptable;
run;
Proc sort data = MERGED_2005_Acceptable out = FINAL.MERGED_2005_Acceptable;
      by DataSourceReferenceID DATE_REVISED;
run;


Proc Sort data=MERGE.nonfrm_2005_atmospheric_final;
      by Site_ID DATE_REVISED;
run;
Proc Sort data=FRM.frm_2005_final;
      by Site_ID DATE_REVISED;
run;
data MERGED_2005_atmospheric;
      merge MERGE.nonfrm_2005_atmospheric_final(in=inNonFRM)
FRM.frm_2005_final(in=inFRM);
      by Site_ID DATE_REVISED;
      if inNonFRM and inFRM;
run;
data MERGED_2005_atmospheric;
      set MERGED_2005_atmospheric;
run;
Proc sort data = MERGED_2005_atmospheric out = FINAL.MERGED_2005_atmospheric;
      by DataSourceReferenceID DATE_REVISED;
run;


Proc Sort data=MERGE.nonfrm_2005_raw_final;
      by Site_ID DATE_REVISED;
run;
Proc Sort data=FRM.frm_2005_final;
      by Site_ID DATE_REVISED;
run;
data MERGED_2005_raw;
      merge MERGE.nonfrm_2005_raw_final(in=inNonFRM)
FRM.frm_2005_final(in=inFRM);
      by Site_ID DATE_REVISED;
      if inNonFRM and inFRM;
run;
data MERGED_2005_raw;
      set MERGED_2005_raw;
run;
Proc sort data = MERGED_2005_raw out = FINAL.MERGED_2005_raw;
      by DataSourceReferenceID DATE_REVISED;
run;
```

```
Proc Sort data=MERGE.nonfrm_2006_acceptable_final;
      by Site_ID DATE_REVISED;
run;
Proc Sort data=FRM.frm_2006_final;
      by Site_ID DATE_REVISED;
run;
data MERGED_2006_Acceptable;
      merge MERGE.nonfrm_2006_acceptable_final(in=inNonFRM)
FRM.frm_2006_final(in=inFRM);
      by Site_ID DATE_REVISED;
      if inNonFRM and inFRM;
run;
data MERGED_2006_Acceptable;
      set MERGED_2006_Acceptable;
run;
Proc sort data = MERGED_2006_Acceptable out = FINAL.MERGED_2006_Acceptable;
      by DataSourceReferenceID DATE_REVISED;
run;


Proc Sort data=MERGE.nonfrm_2006_atmospheric_final;
      by Site_ID DATE_REVISED;
run;
Proc Sort data=FRM.frm_2006_final;
      by Site_ID DATE_REVISED;
run;
data MERGED_2006_atmospheric;
      merge MERGE.nonfrm_2006_atmospheric_final(in=inNonFRM)
FRM.frm_2006_final(in=inFRM);
      by Site_ID DATE_REVISED;
      if inNonFRM and inFRM;
run;
data MERGED_2006_atmospheric;
      set MERGED_2006_atmospheric;
run;
Proc sort data = MERGED_2006_atmospheric out = FINAL.MERGED_2006_atmospheric;
      by DataSourceReferenceID DATE_REVISED;
run;


Proc Sort data=MERGE.nonfrm_2006_raw_final;
      by Site_ID DATE_REVISED;
run;
Proc Sort data=FRM.frm_2006_final;
      by Site_ID DATE_REVISED;
run;
data MERGED_2006_raw;
      merge MERGE.nonfrm_2006_raw_final(in=inNonFRM)
FRM.frm_2006_final(in=inFRM);
      by Site_ID DATE_REVISED;
      if inNonFRM and inFRM;
run;
data MERGED_2006_raw;
      set MERGED_2006_raw;
run;
```

```
Proc sort data = MERGED_2006_raw out = FINAL.MERGED_2006_raw;
      by DataSourceReferenceID DATE_REVISED;
run;


Proc Sort data=MERGE.nonfrm_2007_acceptable_final;
      by Site_ID DATE_REVISED;
run;
Proc Sort data=FRM.frm_2007_final;
      by Site_ID DATE_REVISED;
run;
data MERGED_2007_Acceptable;
      merge MERGE.nonfrm_2007_acceptable_final(in=inNonFRM)
FRM.frm_2007_final(in=inFRM);
      by Site_ID DATE_REVISED;
      if inNonFRM and inFRM;
run;
data MERGED_2007_Acceptable;
      set MERGED_2007_Acceptable;
run;
Proc sort data = MERGED_2007_Acceptable out = FINAL.MERGED_2007_Acceptable;
      by DataSourceReferenceID DATE_REVISED;
run;


Proc Sort data=MERGE.nonfrm_2007_atmospheric_final;
      by Site_ID DATE_REVISED;
run;
Proc Sort data=FRM.frm_2007_final;
      by Site_ID DATE_REVISED;
run;
data MERGED_2007_atmospheric;
      merge MERGE.nonfrm_2007_atmospheric_final(in=inNonFRM)
FRM.frm_2007_final(in=inFRM);
      by Site_ID DATE_REVISED;
      if inNonFRM and inFRM;
run;
data MERGED_2007_atmospheric;
      set MERGED_2007_atmospheric;
run;
Proc sort data = MERGED_2007_atmospheric out = FINAL.MERGED_2007_atmospheric;
      by DataSourceReferenceID DATE_REVISED;
run;


Proc Sort data=MERGE.nonfrm_2007_raw_final;
      by Site_ID DATE_REVISED;
run;
Proc Sort data=FRM.frm_2007_final;
      by Site_ID DATE_REVISED;
run;
data MERGED_2007_raw;
      merge MERGE.nonfrm_2007_raw_final(in=inNonFRM)
FRM.frm_2007_final(in=inFRM);
      by Site_ID DATE_REVISED;
```

```
      if inNonFRM and inFRM;
run;
data MERGED_2007_raw;
      set MERGED_2007_raw;
run;
Proc sort data = MERGED_2007_raw out = FINAL.MERGED_2007_raw;
      by DataSourceReferenceID DATE_REVISED;
run;


Proc Sort data=MERGE.nonfrm_2004_acceptable_final_R;
      by Site_ID DATE_REVISED;
run;
Proc Sort data=FRM.frm_2004_final;
      by Site_ID DATE_REVISED;
run;
data MERGED_2004_Acceptable;
      merge MERGE.nonfrm_2004_acceptable_final_R(in=inNonFRM)
FRM.frm_2004_final(in=inFRM);
      by Site_ID DATE_REVISED;
      if inNonFRM and inFRM;
run;
data MERGED_2004_Acceptable;
      set MERGED_2004_Acceptable;
run;
Proc sort data = MERGED_2004_Acceptable out = FINAL.MERGED_2004_Acceptable;
      by DataSourceReferenceID DATE_REVISED;
run;


Proc Sort data=MERGE.nonfrm_2004_raw_final_R;
      by Site_ID DATE_REVISED;
run;
Proc Sort data=FRM.frm_2004_final;
      by Site_ID DATE_REVISED;
run;
data MERGED_2004_raw;
      merge MERGE.nonfrm_2004_raw_final_R(in=inNonFRM)
FRM.frm_2004_final(in=inFRM);
      by Site_ID DATE_REVISED;
      if inNonFRM and inFRM;
run;
data MERGED_2004_raw;
      set MERGED_2004_raw;
run;
Proc sort data = MERGED_2004_raw out = FINAL.MERGED_2004_raw;
      by DataSourceReferenceID DATE_REVISED;
run;
*************************************************************************
*************;
```

Program13_FRM_NonFRM_change_names

This program modifies some variable names in the merged data sets to better reflect a variable's meaning.

```
************************   PROGRAM NUMBER 13  *****************;


*********************************************************************
Input File : MERGED_YYYY_PARAMETER
Output File: MERGED_YYYY_PARAMETER, where YYYY is a year 2004 - 2007
                 and PARAMETER is acceptable, atmospheric, or raw.

This program changes variable names to better reflect a variable's
meaning.
Note: Please review "Data Set/Document Descriptions (ToReport_1215)"
for variable descriptions.
********************************************************************* ;


libname FINAL 'J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM
Data\REVISED\MERGE\MERGE_FINAL';

data FINAL.merged_2004_acceptable; set FINAL.merged_2004_acceptable;
      SC_Mean_NonFRM = CorrectedValue_NonFRM;
      n_HRS_NonFRM = n_NonFRM;
      Mean_FRM = CorrectedValue_FRM;
      Num_POCs_FRM = nPOC_FRM;
      Date = DATE_REVISED;
      format Date yymmdd10.;
      drop CorrectedValue_NonFRM n_NonFRM CorrectedValue_FRM nPOC_FRM
DATE_REVISED;
run;

data FINAL.merged_2004_atmospheric; set FINAL.merged_2004_atmospheric;
      SC_Mean_NonFRM = CorrectedValue_NonFRM;
      n_HRS_NonFRM = n_NonFRM;
      Mean_FRM = CorrectedValue_FRM;
      Num_POCs_FRM = nPOC_FRM;
      Date = DATE_REVISED;
      format Date yymmdd10.;
      drop CorrectedValue_NonFRM n_NonFRM CorrectedValue_FRM nPOC_FRM
DATE_REVISED;
run;

data FINAL.merged_2004_raw; set FINAL.merged_2004_raw;
      SC_Mean_NonFRM = CorrectedValue_NonFRM;
      n_HRS_NonFRM = n_NonFRM;
      Mean_FRM = CorrectedValue_FRM;
      Num_POCs_FRM = nPOC_FRM;
      Date = DATE_REVISED;
      format Date yymmdd10.;
      drop CorrectedValue_NonFRM n_NonFRM CorrectedValue_FRM nPOC_FRM
DATE_REVISED;
```

```
run;

data FINAL.merged_2005_acceptable; set FINAL.merged_2005_acceptable;
      SC_Mean_NonFRM = CorrectedValue_NonFRM;
      n_HRS_NonFRM = n_NonFRM;
      Mean_FRM = CorrectedValue_FRM;
      Num_POCs_FRM = nPOC_FRM;
      Date = DATE_REVISED;
      format Date yymmdd10.;
      drop CorrectedValue_NonFRM n_NonFRM CorrectedValue_FRM nPOC_FRM
DATE_REVISED;
run;

data FINAL.merged_2005_atmospheric; set FINAL.merged_2005_atmospheric;
      SC_Mean_NonFRM = CorrectedValue_NonFRM;
      n_HRS_NonFRM = n_NonFRM;
      Mean_FRM = CorrectedValue_FRM;
      Num_POCs_FRM = nPOC_FRM;
      Date = DATE_REVISED;
      format Date yymmdd10.;
      drop CorrectedValue_NonFRM n_NonFRM CorrectedValue_FRM nPOC_FRM
DATE_REVISED;
run;

data FINAL.merged_2005_raw; set FINAL.merged_2005_raw;
      SC_Mean_NonFRM = CorrectedValue_NonFRM;
      n_HRS_NonFRM = n_NonFRM;
      Mean_FRM = CorrectedValue_FRM;
      Num_POCs_FRM = nPOC_FRM;
      Date = DATE_REVISED;
      format Date yymmdd10.;
      drop CorrectedValue_NonFRM n_NonFRM CorrectedValue_FRM nPOC_FRM
DATE_REVISED;
run;

data FINAL.merged_2006_acceptable; set FINAL.merged_2006_acceptable;
      SC_Mean_NonFRM = CorrectedValue_NonFRM;
      n_HRS_NonFRM = n_NonFRM;
      Mean_FRM = CorrectedValue_FRM;
      Num_POCs_FRM = nPOC_FRM;
      Date = DATE_REVISED;
      format Date yymmdd10.;
      drop CorrectedValue_NonFRM n_NonFRM CorrectedValue_FRM nPOC_FRM
DATE_REVISED;
run;

data FINAL.merged_2006_atmospheric; set FINAL.merged_2006_atmospheric;
      SC_Mean_NonFRM = CorrectedValue_NonFRM;
      n_HRS_NonFRM = n_NonFRM;
      Mean_FRM = CorrectedValue_FRM;
      Num_POCs_FRM = nPOC_FRM;
      Date = DATE_REVISED;
      format Date yymmdd10.;
      drop CorrectedValue_NonFRM n_NonFRM CorrectedValue_FRM nPOC_FRM
DATE_REVISED;
```

```
run;

data FINAL.merged_2006_raw; set FINAL.merged_2006_raw;
      SC_Mean_NonFRM = CorrectedValue_NonFRM;
      n_HRS_NonFRM = n_NonFRM;
      Mean_FRM = CorrectedValue_FRM;
      Num_POCs_FRM = nPOC_FRM;
      Date = DATE_REVISED;
      format Date yymmdd10.;
      drop CorrectedValue_NonFRM n_NonFRM CorrectedValue_FRM nPOC_FRM
DATE_REVISED;
run;

data FINAL.merged_2007_acceptable; set FINAL.merged_2007_acceptable;
      SC_Mean_NonFRM = CorrectedValue_NonFRM;
      n_HRS_NonFRM = n_NonFRM;
      Mean_FRM = CorrectedValue_FRM;
      Num_POCs_FRM = nPOC_FRM;
      Date = DATE_REVISED;
      format Date yymmdd10.;
      drop CorrectedValue_NonFRM n_NonFRM CorrectedValue_FRM nPOC_FRM
DATE_REVISED;
run;

data FINAL.merged_2007_atmospheric; set FINAL.merged_2007_atmospheric;
      SC_Mean_NonFRM = CorrectedValue_NonFRM;
      n_HRS_NonFRM = n_NonFRM;
      Mean_FRM = CorrectedValue_FRM;
      Num_POCs_FRM = nPOC_FRM;
      Date = DATE_REVISED;
      format Date yymmdd10.;
      drop CorrectedValue_NonFRM n_NonFRM CorrectedValue_FRM nPOC_FRM
DATE_REVISED;
run;

data FINAL.merged_2007_raw; set FINAL.merged_2007_raw;
      SC_Mean_NonFRM = CorrectedValue_NonFRM;
      n_HRS_NonFRM = n_NonFRM;
      Mean_FRM = CorrectedValue_FRM;
      Num_POCs_FRM = nPOC_FRM;
      Date = DATE_REVISED;
      format Date yymmdd10.;
      drop CorrectedValue_NonFRM n_NonFRM CorrectedValue_FRM nPOC_FRM
DATE_REVISED;
run;
```

Program13-1QA_after_Program13_List_DataSourceReferenceID
This program lists all sites identified by the SAS variable DataSourceReferenceID.

```
********************   Program Number 13.1 -- QA          ******************;

*************************************************************************
*****
This program lists all Data Source Reference IDs for each merged data set.

SAS Output File: ProcSQL_DataSourceReferenceID.lst
*************************************************************************
*****;

libname FINAL "J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM
Data\REVISED\MERGE\MERGE_FINAL";

*****************************************************************;
proc sql;
      title 'List of Data Source Reference IDs: merged_2004_acceptable';
      select distinct DataSourceReferenceID, COUNT(distinct
DataSourceReferenceID) as Num_DataSourceReferenceID
      from FINAL.merged_2004_acceptable;
proc sql;
      title 'List of Data Source Reference IDs: merged_2004_atmospheric';
      select distinct DataSourceReferenceID, COUNT(distinct
DataSourceReferenceID) as Num_DataSourceReferenceID
      from FINAL.merged_2004_atmospheric;
proc sql;
      title 'List of Data Source Reference IDs: merged_2004_raw';
      select distinct DataSourceReferenceID, COUNT(distinct
DataSourceReferenceID) as Num_DataSourceReferenceID
      from FINAL.merged_2004_raw;

*****************************************************************;
proc sql;
      title 'List of Data Source Reference IDs: merged_2005_acceptable';
      select distinct DataSourceReferenceID, COUNT(distinct
DataSourceReferenceID) as Num_DataSourceReferenceID
      from FINAL.merged_2005_acceptable;
proc sql;
      title 'List of Data Source Reference IDs: merged_2005_atmospheric';
      select distinct DataSourceReferenceID, COUNT(distinct
DataSourceReferenceID) as Num_DataSourceReferenceID
      from FINAL.merged_2005_atmospheric;
proc sql;
      title 'List of Data Source Reference IDs: merged_2005_raw';
      select distinct DataSourceReferenceID, COUNT(distinct
DataSourceReferenceID) as Num_DataSourceReferenceID
      from FINAL.merged_2005_raw;
*****************************************************************;
proc sql;
      title 'List of Data Source Reference IDs: merged_2006_acceptable';
      select distinct DataSourceReferenceID, COUNT(distinct
DataSourceReferenceID) as Num_DataSourceReferenceID
      from FINAL.merged_2006_acceptable;
```

```
proc sql;
      title 'List of Data Source Reference IDs: merged_2006_atmospheric';
      select distinct DataSourceReferenceID, COUNT(distinct
DataSourceReferenceID) as Num_DataSourceReferenceID
      from FINAL.merged_2006_atmospheric;
proc sql;
      title 'List of Data Source Reference IDs: merged_2006_raw';
      select distinct DataSourceReferenceID, COUNT(distinct
DataSourceReferenceID) as Num_DataSourceReferenceID
      from FINAL.merged_2006_raw;


*****************************************************************;
proc sql;
      title 'List of Data Source Reference IDs: merged_2007_acceptable';
      select distinct DataSourceReferenceID, COUNT(distinct
DataSourceReferenceID) as Num_DataSourceReferenceID
      from FINAL.merged_2007_acceptable;
proc sql;
      title 'List of Data Source Reference IDs: merged_2007_atmospheric';
      select distinct DataSourceReferenceID, COUNT(distinct
DataSourceReferenceID) as Num_DataSourceReferenceID
      from FINAL.merged_2007_atmospheric;
proc sql;
      title 'List of Data Source Reference IDs: merged_2007_raw';
      select distinct DataSourceReferenceID, COUNT(distinct
DataSourceReferenceID) as Num_DataSourceReferenceID
      from FINAL.merged_2007_raw;
quit;
```

Program13-2QA_after_Program13_List_Poc_Duplicates
This program lists all sites with multiple POCs identified by the SAS variable DataSourceReferenceID.

```
*****************************   Program Number 13.2 -- QA   ****************

*******************************************************************************
***************
This program lists Site IDs that have multiple DataSourceReferenceIDs
(multiple POCs)
for each merged data set.

SAS Output File: ProcSQL_PocDuplicates.lst
*******************************************************************************
***************;

libname FINAL "J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM
Data\REVISED\MERGE\MERGE_FINAL";

*******************************************************************************
***;
proc sort data = FINAL.merged_2004_acceptable out = merged_2004_acceptable_S;
      by date_REVISED site_ID DataSourceReferenceID;
run;
data  merged_2004_acceptable_Dup; set merged_2004_acceptable_S;
      by date_REVISED site_ID DataSourceReferenceID;
      if first.site_ID and last.site_ID then delete;
run;
proc sql;
      title 'List of Site with POC Duplicates: merged_2004_acceptable';
      select distinct site_ID, COUNT(distinct site_ID) as Num_Site
      from merged_2004_acceptable_Dup;
quit;

proc sort data = FINAL.merged_2004_atmospheric out =
merged_2004_atmospheric_S;
      by date_REVISED site_ID DataSourceReferenceID;
run;
data  merged_2004_atmospheric_Dup; set merged_2004_atmospheric_S;
      by date_REVISED site_ID DataSourceReferenceID;
      if first.site_ID and last.site_ID then delete;
run;
proc sql;
      title 'List of Site with POC Duplicates: merged_2004_atmospheric';
      select distinct site_ID, COUNT(distinct site_ID) as Num_Site
      from merged_2004_atmospheric_Dup;
quit;

proc sort data = FINAL.merged_2004_raw out = merged_2004_raw_S;
      by date_REVISED site_ID DataSourceReferenceID;
run;
data  merged_2004_raw_Dup; set merged_2004_raw_S;
      by date_REVISED site_ID DataSourceReferenceID;
```

```
      if first.site_ID and last.site_ID then delete;
run;
proc sql;
      title 'List of Site with POC Duplicates: merged_2004_raw';
      select distinct site_ID, COUNT(distinct site_ID) as Num_Site
      from merged_2004_raw_Dup;
quit;


*************************************************************************
***;
proc sort data = FINAL.merged_2005_acceptable out = merged_2005_acceptable_S;
      by date_REVISED site_ID DataSourceReferenceID;
run;
data  merged_2005_acceptable_Dup; set merged_2005_acceptable_S;
      by date_REVISED site_ID DataSourceReferenceID;
      if first.site_ID and last.site_ID then delete;
run;
proc sql;
      title 'List of Site with POC Duplicates: merged_2005_acceptable';
      select distinct site_ID, COUNT(distinct site_ID) as Num_Site
      from merged_2005_acceptable_Dup;
quit;

proc sort data = FINAL.merged_2005_atmospheric out =
merged_2005_atmospheric_S;
      by date_REVISED site_ID DataSourceReferenceID;
run;
data  merged_2005_atmospheric_Dup; set merged_2005_atmospheric_S;
      by date_REVISED site_ID DataSourceReferenceID;
      if first.site_ID and last.site_ID then delete;
run;
proc sql;
      title 'List of Site with POC Duplicates: merged_2005_atmospheric';
      select distinct site_ID, COUNT(distinct site_ID) as Num_Site
      from merged_2005_atmospheric_Dup;
quit;

proc sort data = FINAL.merged_2005_raw out = merged_2005_raw_S;
      by date_REVISED site_ID DataSourceReferenceID;
run;
data  merged_2005_raw_Dup; set merged_2005_raw_S;
      by date_REVISED site_ID DataSourceReferenceID;
      if first.site_ID and last.site_ID then delete;
run;
proc sql;
      title 'List of Site with POC Duplicates: merged_2005_raw';
      select distinct site_ID, COUNT(distinct site_ID) as Num_Site
      from merged_2005_raw_Dup;
quit;


*************************************************************************
***;
proc sort data = FINAL.merged_2006_acceptable out = merged_2006_acceptable_S;
```

```
      by date_REVISED site_ID DataSourceReferenceID;
run;
data  merged_2006_acceptable_Dup; set merged_2006_acceptable_S;
      by date_REVISED site_ID DataSourceReferenceID;
      if first.site_ID and last.site_ID then delete;
run;
proc sql;
      title 'List of Site with POC Duplicates: merged_2006_acceptable';
      select distinct site_ID, COUNT(distinct site_ID) as Num_Site
      from merged_2006_acceptable_Dup;
quit;

proc sort data = FINAL.merged_2006_atmospheric out =
merged_2006_atmospheric_S;
      by date_REVISED site_ID DataSourceReferenceID;
run;
data  merged_2006_atmospheric_Dup; set merged_2006_atmospheric_S;
      by date_REVISED site_ID DataSourceReferenceID;
      if first.site_ID and last.site_ID then delete;
run;
proc sql;
      title 'List of Site with POC Duplicates: merged_2006_atmospheric';
      select distinct site_ID, COUNT(distinct site_ID) as Num_Site
      from merged_2006_atmospheric_Dup;
quit;

proc sort data = FINAL.merged_2006_raw out = merged_2006_raw_S;
      by date_REVISED site_ID DataSourceReferenceID;
run;
data  merged_2006_raw_Dup; set merged_2006_raw_S;
      by date_REVISED site_ID DataSourceReferenceID;
      if first.site_ID and last.site_ID then delete;
run;
proc sql;
      title 'List of Site with POC Duplicates: merged_2006_raw';
      select distinct site_ID, COUNT(distinct site_ID) as Num_Site
      from merged_2006_raw_Dup;
quit;


*************************************************************************
***;
proc sort data = FINAL.merged_2007_acceptable out = merged_2007_acceptable_S;
      by date_REVISED site_ID DataSourceReferenceID;
run;
data  merged_2007_acceptable_Dup; set merged_2007_acceptable_S;
      by date_REVISED site_ID DataSourceReferenceID;
      if first.site_ID and last.site_ID then delete;
run;
proc sql;
      title 'List of Site with POC Duplicates: merged_2007_acceptable';
      select distinct site_ID, COUNT(distinct site_ID) as Num_Site
      from merged_2007_acceptable_Dup;
quit;
```

```
proc sort data = FINAL.merged_2007_atmospheric out =
merged_2007_atmospheric_S;
      by date_REVISED site_ID DataSourceReferenceID;
run;
data  merged_2007_atmospheric_Dup; set merged_2007_atmospheric_S;
      by date_REVISED site_ID DataSourceReferenceID;
      if first.site_ID and last.site_ID then delete;
run;
proc sql;
      title 'List of Site with POC Duplicates: merged_2007_atmospheric';
      select distinct site_ID, COUNT(distinct site_ID) as Num_Site
      from merged_2007_atmospheric_Dup;
quit;

proc sort data = FINAL.merged_2007_raw out = merged_2007_raw_S;
      by date_REVISED site_ID DataSourceReferenceID;
run;
data  merged_2007_raw_Dup; set merged_2007_raw_S;
      by date_REVISED site_ID DataSourceReferenceID;
      if first.site_ID and last.site_ID then delete;
run;
proc sql;
      title 'List of Site with POC Duplicates: merged_2007_raw';
      select distinct site_ID, COUNT(distinct site_ID) as Num_Site
      from merged_2007_raw_Dup;
quit;
```

Program13-3QA_after_Program13_List_Site_IDs
This program lists all sites as identified by the SAS variable Site_ID.

```
******************    Program Number 13.3 -- QA    ******************;

************************************************************
This program lists all Site IDs for each merged data set.

SAS Output File: ProcSQL_SiteID.lst
************************************************************;


libname FINAL "J:\EMD_II\WA_333_FRM_vs_FEM\Non-FRM
Data\REVISED\MERGE\MERGE_FINAL";

*********************************************************************;
proc sql;
      title 'List of Site ID: merged_2004_acceptable';
      select distinct Site_ID, COUNT(distinct Site_ID) as Num_SiteID
      from FINAL.merged_2004_acceptable;
proc sql;
      title 'List of Site ID: merged_2004_atmospheric';
      select distinct Site_ID, COUNT(distinct Site_ID) as Num_SiteID
      from FINAL.merged_2004_atmospheric;
proc sql;
      title 'List of Site ID: merged_2004_raw';
      select distinct Site_ID, COUNT(distinct Site_ID) as Num_SiteID
      from FINAL.merged_2004_raw;

*********************************************************************;
proc sql;
      title 'List of Site ID: merged_2005_acceptable';
      select distinct Site_ID, COUNT(distinct Site_ID) as Num_SiteID
      from FINAL.merged_2005_acceptable;
proc sql;
      title 'List of Site ID: merged_2005_atmospheric';
      select distinct Site_ID, COUNT(distinct Site_ID) as Num_SiteID
      from FINAL.merged_2005_atmospheric;
proc sql;
      title 'List of Site ID: merged_2005_raw';
      select distinct Site_ID, COUNT(distinct Site_ID) as Num_SiteID
      from FINAL.merged_2005_raw;


*********************************************************************;
proc sql;
      title 'List of Site ID: merged_2006_acceptable';
      select distinct Site_ID, COUNT(distinct Site_ID) as Num_SiteID
      from FINAL.merged_2006_acceptable;
proc sql;
      title 'List of Site ID: merged_2006_atmospheric';
      select distinct Site_ID, COUNT(distinct Site_ID) as Num_SiteID
      from FINAL.merged_2006_atmospheric;
```

```
proc sql;
      title 'List of Site ID: merged_2006_raw';
      select distinct Site_ID, COUNT(distinct Site_ID) as Num_SiteID
      from FINAL.merged_2006_raw;


**********************************************************************;
proc sql;
      title 'List of Site ID: merged_2007_acceptable';
      select distinct Site_ID, COUNT(distinct Site_ID) as Num_SiteID
      from FINAL.merged_2007_acceptable;
proc sql;
      title 'List of Site ID: merged_2007_atmospheric';
      select distinct Site_ID, COUNT(distinct Site_ID) as Num_SiteID
      from FINAL.merged_2007_atmospheric;
proc sql;
      title 'List of Site ID: merged_2007_raw';
      select distinct Site_ID, COUNT(distinct Site_ID) as Num_SiteID
      from FINAL.merged_2007_raw;
quit;
```

Program13-9QA_before_Program14_data_counts

This program provides counts of the number of observations available in different categories prior to developing the predictive equations.

```
**********************     Program Number 13.9 -- QA    ***************;

*******   This program simply provides observation counts of the FRM/Non-FRM
*******
*******   data sets prior to developing predictive equations. Counts are
generated ***
*******   by state within data type and year and by state-year combination
within ****
*******   data type, method, and region.
*******;
*******   Note that the reference to the "maps" libname refers to the library
*******
*******   that is part of the SAS GRAPH module.
********;


libname in 'T:\mariko frm_nonfrm\toreport_1215\sas data sets\merged';
options nomprint;

proc sql noprint;
   select statename,state into :statename separated by '#',
   :statenum separated by '#'
   from maps.us2;
quit;

%macro a(year,type);
%let t3 = %substr(&type,1,3);
data all&year&type;
   set in.merged_&year._&type;
   length state $20 season $2 stfips $2 type $12 region $13;
   if sc_mean_nonfrm NE . and mean_frm NE . and n_hrs_nonfrm>=18;
   if 1<=month(date_revised)<=3 then season='Q1';
   if 4<=month(date_revised)<=6 then season='Q2';
   if 7<=month(date_revised)<=9 then season='Q3';
   if 10<=month(date_revised)<=12 then season='Q4';
   stfips = substr(site_id,1,2);
   stnum = stfips*1;
   year = &year;
   type = "&type";
   select(stfips);
      %do i=1 %to 52;
         %let stnum = %scan(&statenum,&i,#);
             %if &stnum<10 %then %let stnum = 0&stnum;
           %let state = %scan(&statename,&i,#);
           when("&stnum") state="&state";
      %end;
        otherwise put "no state for " stfips;
   end;
   if stnum in (9,10,11,18,23,24,25,26,33,34,36,39,42,44,50,54)
      then region='Northeast';
```

```
   else if stnum in (1,12,13,21,37,45,47,51)
      then region='Southeast';
   else if stnum in (17,19,20,27,29,31,38,46,55)
      then region='North Central';
   else if stnum in (5,22,28,40,48)
      then region='South Central';
   else if stnum in (16,30,41,53,56)
      then region='Northwest';
   else if stnum in (4,6,8,32,35,49)
      then region='Southwest';
   else region = 'Other';
   rename methoddescription = method;
run;
/*
proc freq data=all&year&type noprint;
   tables site_ID*method /out=sitecount_&year&t3;
run;
data count2_&year&t3;
   set sitecount_&year&t3;
   length state $20 stfips $2;
   drop percent stfips;
   stfips = substr(site_id,1,2);
   select(stfips);
      %do i=1 %to 52;
         %let stnum = %scan(&statenum,&i,#);
             %if &stnum<10 %then %let stnum = 0&stnum;
           %let state = %scan(&statename,&i,#);
           when("&stnum") state="&state";
      %end;
        otherwise put "no state for " stfips;
   end;
run;
title "Number of site-method pairs by state, &year &type";
proc freq data=count2_&year&t3;
   tables state;
run;
*/
%mend;

%a(2004,acceptable);
%a(2004,atmospheric);
%a(2004,raw)
%a(2005,acceptable);
%a(2005,atmospheric);
%a(2005,raw)
%a(2006,acceptable);
%a(2006,atmospheric);
%a(2006,raw)
%a(2007,acceptable);
%a(2007,atmospheric);
%a(2007,raw)

%macro join;
   data all;
      set all2004acceptable all2004atmospheric all2004raw
```

```
          all2005acceptable all2005atmospheric all2005raw
          all2006acceptable all2006atmospheric all2006raw
          all2007acceptable all2007atmospheric all2007raw;
   run;
   proc sort data=all;
      by type method region;
   run;
   title 'Valid site-day pairs by type, method, and region';
   proc freq data=all;
      by type method region;
        tables state*year;
   run;
%mend;
%join;
```

Program14_variable_setup_summaries
This program 'joins' the merged data sets across years, creates some new variables required for an analysis, generates frequency counts and summary statistics, and calculates autocorrelation.

```
*******************************    Program Number 14    ******************;

*************    This program begins with the merged FRM/Non-FRM data sets,
*******
*************    combines them across years, adds the variables region,
season, ***
*************    state, county, and corrected variables to them, and saves
the ****
*************    resulting files as permanent SAS data sets. The "corrected"
******
*************    variable indicates whether AQS explicitly indicates that a
*******
*************    correction was applied to the original hourly data.
*******;

*************    The program also generates frequency counts and summary
*********
*************    statistics by several categories and saves the results to
*********
*************    permanent SAS data sets.
*********;
*************    Autocorrelation is also calculated and saved in permanent
*********
*************    SAS data sets.
*********;

*************   The region and season designations were determined in
*********
*************   collaboration with Eric Hall of EPA.
*********;

/*
NW    Northwest      Washington, Oregon, Idaho, Montana, Wyoming
NC    North Central  North Dakota, South Dakota, Nebraska, Kansas, Minnesota,
Iowa, Missouri,
                  Wisconsin, Illinois
NE    Northeast      Maine, New Hampshire, Vermont, Massachusetts, Rhode
Island, Connecticut,
                         New York, New Jersey, Pennsylvania, Maryland,
Delaware, D. C.,
                         West Virginia, Ohio, Michigan, Indiana
SW    Southwest      California, Nevada, Arizona, New Mexico, Utah, Colorado
SC    South Central  Texas,  Oklahoma, Arkansas, Louisiana, Mississippi
SE    Southeast      Kentucky, Virginia, Tennessee, North Carolina, South
Carolina, Alabama,
                         Georgia, Florida.
*/
```

```
libname in  "J:\emd_II\wa_333_FRM_vs_FEM\non-frm
data\revised\merge\merge_final";
libname out "J:\emd_II\wa_333_FRM_vs_FEM\non-frm
data\revised\merge\analysis";


/*
Notes for acc_a raw_a and atm_a data steps.

The set statement merges the acceptable data from the four years 2004-2007.
The IF statement deletes any non_FRM data with fewer than 18 hours on a given
day.
State and county are FIPS codes extracted from the site ID.
The seasons are meteorological, with winter being Dec, Jan, and Feb.
The other seasons are also 3 months each.
All of the method descriptions that were clearly corrected contained 'w/C'.
All clearly not corrected contained 'w/N'.  Others were marked 'Unk' for
unknown.
The mapping from state to region is indicated near the top of the program
*/

data acc_a;
   set in.merged_2004_acceptable in.merged_2005_acceptable
       in.merged_2006_acceptable in.merged_2007_acceptable;
   if n_hrs_nonFRM < 18 then delete;
   state  = substr(site_ID,1,2)*1;
   county = substr(site_ID,3,3)*1;
   length season $6 corrected $3 region $13;
   month = month(date);
   year  = year(date);
   if month in (12,1,2) then season="Winter";
   if month in (3,4,5)  then season="Spring";
   if month in (6,7,8)  then season="Summer";
   if month in (9,10,11)then season="Autumn";
   if index(MethodDescription,"w/C")>0 then corrected="Yes";
   else if index(MethodDescription,"w/N")>0 then corrected="No";
   else corrected="Unk";
   rename SC_Mean_nonFRM = SC_Mean
          MethodDescription = Method
          Mean_FRM = FRM_Mean;
   if state in (53,41,16,30,56)              then region = "Northwest";
   if state in (38,46,31,20,27,19,29,55,17) then region = "North Central";
   if state in (23,33,50,25,44,9,36,34,42,24,10,11,54,39,26,18)
        then region = "Northeast";
   if state in (6,32,4,35,49,8)          then region = "Southwest";
   if state in (48,40,5,22,28)           then region = "South Central";
   if state in (21,51,47,37,45,1,13,12) then region = "Southeast";
run;


data raw_a;
   set in.merged_2004_raw in.merged_2005_raw
       in.merged_2006_raw in.merged_2007_raw;
   if n_hrs_nonFRM < 18 then delete;
   state  = substr(site_ID,1,2)*1;
```

```
   county = substr(site_ID,3,3)*1;
   length season $6 corrected $3 region $13;
   month = month(date);
   year  = year(date);
   if month in (12,1,2) then season="Winter";
   if month in (3,4,5)  then season="Spring";
   if month in (6,7,8)  then season="Summer";
   if month in (9,10,11)then season="Autumn";
   if index(MethodDescription,"w/C")>0 then corrected="Yes";
   else if index(MethodDescription,"w/N")>0 then corrected="No";
   else corrected="Unk";
   rename SC_Mean_nonFRM = SC_Mean
          MethodDescription = Method
          Mean_FRM = FRM_Mean;
   if state in (53,41,16,30,56)              then region = "Northwest";
   if state in (38,46,31,20,27,19,29,55,17) then region = "North Central";
   if state in (23,33,50,25,44,9,36,34,42,24,10,11,54,39,26,18)
        then region = "Northeast";
   if state in (6,32,4,35,49,8)          then region = "Southwest";
   if state in (48,40,5,22,28)           then region = "South Central";
   if state in (21,51,47,37,45,1,13,12) then region = "Southeast";
run;

data atm_a;
   set in.merged_2004_atmospheric in.merged_2005_atmospheric
       in.merged_2006_atmospheric in.merged_2007_atmospheric;
   if n_hrs_nonFRM < 18 then delete;
   state  = substr(site_ID,1,2)*1;
   county = substr(site_ID,3,3)*1;
   length season $6 corrected $3 region $13;
   month = month(date);
   year  = year(date);
   if month in (12,1,2) then season="Winter";
   if month in (3,4,5)  then season="Spring";
   if month in (6,7,8)  then season="Summer";
   if month in (9,10,11)then season="Autumn";
   if index(MethodDescription,"w/C")>0 then corrected="Yes";
   else if index(MethodDescription,"w/N")>0 then corrected="No";
   else corrected="Unk";
   rename SC_Mean_nonFRM = SC_Mean
          MethodDescription = Method
          Mean_FRM = FRM_Mean;
   if state in (53,41,16,30,56)              then region = "Northwest";
   if state in (38,46,31,20,27,19,29,55,17) then region = "North Central";
   if state in (23,33,50,25,44,9,36,34,42,24,10,11,54,39,26,18)
        then region = "Northeast";
   if state in (6,32,4,35,49,8)          then region = "Southwest";
   if state in (48,40,5,22,28)           then region = "South Central";
   if state in (21,51,47,37,45,1,13,12) then region = "Southeast";
run;


/*
Notes for macro %a(t)
```

```
The macro argument 't' indicates the type of data (acc, raw, or atm).
The data are first sorted by state and county, and merged with a SAS library
data set
that contains the state and county names for each FIPS code.

The data are then re-sorted by Site_ID and date.  Proc Freq is used to create
tables
of the methods, state FIPS, state names, region, and season, to give an
indication of
the coverage.  The 'allyrs' data sets (one for each of the 3 types) are used
in the
regression program to relate the FRM and SC data.

Proc Arima is used to determine the amount of autocorrelation in the time
series for
each site.  Values up to 7 observations apart are paired.  These are checks
to see
whether the daily measurements are independent or not.  None of the results
were large
enough for concern, although there was a small non-zero effect at short lags.

The next 3 sections produce separate output data sets for FRM and SX data,
giving
statistical summaries by season, state, and region, respectively.  The final
section
produces summary statistics by site and year for the variables FRM_Mean and
SC_Mean.
Finally, two data sets of high values are created.  The first reports any
site-year
with a mean concentration at or above 15 for either the FRM or SC data.  The
second
data set reports site-days with either the FRM or SC data at or above 35.

*/


%macro a(t);
title "&t. data";
proc sort data=&t._a out=&t._b; by state county; run;
data &t._c;
   merge &t._b(in=ina) maps.cntyname(keep=state county statename countynm);
   by state county;
   if ina;
run;
proc sort data=&t._c out=out.&t._allyrs; by site_ID date; run;
proc freq data=out.&t._allyrs;
   tables method / out=out.&t._counts_method;
   tables state  / out=out.&t._counts_state;
   tables statename / out=out.&t._counts_statename;
   tables region /out=out.&t._counts_region;
   tables season / out=out.&t._counts_season;
run;
proc arima data=out.&t._allyrs;
   by site_ID;
   identify var=FRM_Mean nlag=7 noprint outcov=out.&t._arima_FRM;
```

```
   identify var=SC_mean  nlag=7 noprint outcov=out.&t._arima_SC;
run;
quit;

* By season;
proc sort data=out.&t._allyrs out=&t._d; by season; run;
proc means data=&t._d n min p5 p10 p25 p50 p75 p90 p95 p99 max mean lclm
uclm;
   by season;
   var FRM_Mean;
   output out=out.&t._means_season_FRM (drop=_TYPE_ _FREQ_)
         n=n min=min p5=p5 p10=p10 p25=p25 p50=p50
         p75=p75 p90=p90 p95=p95 p99=p99 mean=mean lclm=lclm uclm=uclm;
run;
proc means data=&t._d n min p5 p10 p25 p50 p75 p90 p95 p99 max mean lclm
uclm;
   by season;
   var SC_Mean;
   output out=out.&t._means_season_SC (drop=_TYPE_ _FREQ_)
         n=n min=min p5=p5 p10=p10 p25=p25 p50=p50
         p75=p75 p90=p90 p95=p95 p99=p99 mean=mean lclm=lclm uclm=uclm;
run;

*By state;
proc sort data=out.&t._allyrs out=&t._e; by state; run;
proc means data=&t._e n min p5 p10 p25 p50 p75 p90 p95 p99 max mean lclm
uclm;
   by state;
   var FRM_Mean;
   output out=out.&t._means_state_FRM (drop=_TYPE_ _FREQ_)
         n=n min=min p5=p5 p10=p10 p25=p25 p50=p50
         p75=p75 p90=p90 p95=p95 p99=p99 mean=mean lclm=lclm uclm=uclm;
run;
proc means data=&t._e n min p5 p10 p25 p50 p75 p90 p95 p99 max mean lclm
uclm;
   by state;
   var SC_Mean;
   output out=out.&t._means_state_SC (drop=_TYPE_ _FREQ_)
         n=n min=min p5=p5 p10=p10 p25=p25 p50=p50
         p75=p75 p90=p90 p95=p95 p99=p99 mean=mean lclm=lclm uclm=uclm;
run;

*By region;
proc sort data=out.&t._allyrs out=&t._f; by region; run;
proc means data=&t._f n min p5 p10 p25 p50 p75 p90 p95 p99 max mean lclm
uclm;
   by region;
   var FRM_Mean;
   output out=out.&t._means_region_FRM (drop=_TYPE_ _FREQ_)
         n=n min=min p5=p5 p10=p10 p25=p25 p50=p50
         p75=p75 p90=p90 p95=p95 p99=p99 mean=mean lclm=lclm uclm=uclm;
run;
proc means data=&t._f n min p5 p10 p25 p50 p75 p90 p95 p99 max mean lclm
uclm;
   by region;
```

```
   var SC_Mean;
   output out=out.&t._means_region_SC (drop=_TYPE_ _FREQ_)
         n=n min=min p5=p5 p10=p10 p25=p25 p50=p50
         p75=p75 p90=p90 p95=p95 p99=p99 mean=mean lclm=lclm uclm=uclm;
run;

* by site and year;
proc sort data=out.&t._allyrs out=&t._g; by site_ID year; run;
proc means data=&t._g n mean;
   by site_ID year;
   id state county region;
   var FRM_Mean SC_Mean;
   output out=out.&t._means_annual (drop=_TYPE_ _FREQ_)
          n=FRM_n SC_n mean=annual_FRM_mean annual_SC_mean;
run;
data out.&t._means_annual_high;
   set out.&t._means_annual;
   if annual_FRM_mean>=15 or annual_SC_mean>=15;
run;
data out.&t._allyrs_high;
   set out.&t._allyrs;
   if FRM_mean>=35 or SC_mean>=35;
   keep Site_ID state region season method county statename countynm sc_mean
frm_mean;
run;
%mend;

%a(acc);
%a(raw);
%a(atm);
```

Program14-1QA_after_Program14_Autocorrelation_check
This program examines the degree of autocorrelation present in the data. This is done to assess whether this will be problematic in developing the predictive equations.

```
******************     Program Number 14.1 -- QA      ******************;


*************************************************************************
*************
**** PROGRAM NAME=J:EMD_II/WA_333_FRM_VS_FEM/NON-FRM DATA/REVISED/MERGE/
****
****                        /ANALYSIS/SAS_CODE/LAG1
****
**********   TO DETERMINE WHETHER AUTOCORRELATION WILL BE A CONCERN IN THE
REGRESSIONS, **
**********   THIS PROGRAM EXTRACTS AND PRINTS OUT LAG ONE AUTOCORRELATIONS
FROM THE   ****
**********   FRM DATA.                                                L. SMITH
6-1-09  ****
*************************************************************************
*************;
OPTIONS NODATE NONUMBER;
***************   READ IN AUTOCORRELATIONS FROM PREVIOUSLY CALCULATED SAS
FILES.   ******
*************** ONLY LOOKING AT LAG ONE. PRINT OUT BY STATE. SEPARATE BY
ACCEPTABLE, ****
*************** ATMOSPHERIC AND RAW DATA FOR FRM. STORE EXTRACTED DATA IN
PERMANENT *****
*************** SAS DATA SETS.
*****;
LIBNAME TMP1 "J:\EMD_II\WA_333_FRM_VS_FEM\NON-FRM
DATA\REVISED\MERGE\ANALYSIS";
DATA TMP1.ACC_LAG1; SET TMP1.ACC_ARIMA_FRM;
    IF LAG=1;
      FIPS_ST=.; FIPS_ST=SUBSTR(SITE_ID,1,2);
      STATE=FIPNAME(FIPS_ST);
PROC SORT DATA=TMP1.ACC_LAG1; BY STATE SITE_ID;
PROC PRINT DATA=TMP1.ACC_LAG1; BY STATE;
   VAR SITE_ID N CORR;
 TITLE "LAG ONE AUTOCORRELATIONS FROM ACCEPTABLE FRM DATA";
 TITLE2 "N SUGGESTS WHETHER SAMPLING WAS DAILY OR EVERY THIRD DAY";

DATA TMP1.ATM_LAG1; SET TMP1.ATM_ARIMA_FRM;
    IF LAG=1;
      FIPS_ST=.; FIPS_ST=SUBSTR(SITE_ID,1,2);
      STATE=FIPNAME(FIPS_ST);
PROC SORT DATA=TMP1.ATM_LAG1; BY STATE SITE_ID;
PROC PRINT DATA=TMP1.ATM_LAG1; BY STATE;
   VAR SITE_ID N CORR;
 TITLE "LAG ONE AUTOCORRELATIONS FROM ATMOSPHERIC FRM DATA";
 TITLE2 "N SUGGESTS WHETHER SAMPLING WAS DAILY OR EVERY THIRD DAY";

DATA TMP1.RAW_LAG1; SET TMP1.RAW_ARIMA_FRM;
```

```
    IF LAG=1;
      FIPS_ST=.; FIPS_ST=SUBSTR(SITE_ID,1,2);
      STATE=FIPNAME(FIPS_ST);
PROC SORT DATA=TMP1.RAW_LAG1; BY STATE SITE_ID;
PROC PRINT DATA=TMP1.RAW_LAG1; BY STATE;
   VAR SITE_ID N CORR;
 TITLE "LAG ONE AUTOCORRELATIONS FROM RAW FRM DATA";
 TITLE2 "N SUGGESTS WHETHER SAMPLING WAS DAILY OR EVERY THIRD DAY";

*********  CALCULATE FRACTION OF TOTAL NUMBER OF OBSERVATIONS WITH LAG ONE
********
*********  BETWEEN DIFFERENT LEVELS.
********;
DATA ACC_BIG; SET TMP1.ACC_LAG1;
   IF CORR >= .495 THEN LAG1_OVER_50="YES"; ELSE LAG1_OVER_50="NO";
   IF CORR >= .595 THEN LAG1_OVER_60="YES"; ELSE LAG1_OVER_60="NO";
   IF CORR >= .695 THEN LAG1_OVER_70="YES"; ELSE LAG1_OVER_70="NO";
   IF CORR >= .795 THEN LAG1_OVER_80="YES"; ELSE LAG1_OVER_80="NO";
PROC FREQ DATA=ACC_BIG;
   TABLES LAG1_OVER_50 LAG1_OVER_60 LAG1_OVER_70 LAG1_OVER_80;
   WEIGHT N;
 TITLE "FREQUENCY OF TOTAL OBSERVATIONS FROM SITES WITH LAG ONE
AUTOCORRELATION OVER GIVEN %";
 TITLE2 "ACCEPTABLE DATA";

DATA ATM_BIG; SET TMP1.ATM_LAG1;
   IF CORR >= .495 THEN LAG1_OVER_50="YES"; ELSE LAG1_OVER_50="NO";
   IF CORR >= .595 THEN LAG1_OVER_60="YES"; ELSE LAG1_OVER_60="NO";
   IF CORR >= .695 THEN LAG1_OVER_70="YES"; ELSE LAG1_OVER_70="NO";
   IF CORR >= .795 THEN LAG1_OVER_80="YES"; ELSE LAG1_OVER_80="NO";
PROC FREQ DATA=ATM_BIG;
   TABLES LAG1_OVER_50 LAG1_OVER_60 LAG1_OVER_70 LAG1_OVER_80;
   WEIGHT N;
 TITLE "FREQUENCY OF TOTAL OBSERVATIONS FROM SITES WITH LAG ONE
AUTOCORRELATION OVER GIVEN %";
 TITLE2 "ATMOSPHERIC DATA";

DATA RAW_BIG; SET TMP1.RAW_LAG1;
   IF CORR >= .495 THEN LAG1_OVER_50="YES"; ELSE LAG1_OVER_50="NO";
   IF CORR >= .595 THEN LAG1_OVER_60="YES"; ELSE LAG1_OVER_60="NO";
   IF CORR >= .695 THEN LAG1_OVER_70="YES"; ELSE LAG1_OVER_70="NO";
   IF CORR >= .795 THEN LAG1_OVER_80="YES"; ELSE LAG1_OVER_80="NO";
PROC FREQ DATA=RAW_BIG;
   TABLES LAG1_OVER_50 LAG1_OVER_60 LAG1_OVER_70 LAG1_OVER_80;
   WEIGHT N;
 TITLE "FREQUENCY OF TOTAL OBSERVATIONS FROM SITES WITH LAG ONE
AUTOCORRELATION OVER GIVEN %";
 TITLE2 "RAW DATA";
RUN;
QUIT;
```

Program14-2QA_after_Program14_Frequency_check
This program simply checks the frequency of data for different explanatory variables, alone and in combination.

```
**************      Program Number 14.2 -- QA    ********************;

*************************************************************************
*************
****  PROGRAM NAME=J:/EMD_II/WA_333_FRM_VS_FEM/NON-FRM DATA/REVISED/
***
****                              MERGE/ANALYSIS/SAS_CODE/FREQ_CHECK
***
****   THIS PROGRAM CHECKS THE FREQUENCY OF THE VARIOUS EXPLANATORY VARIABLES
USED IN  ***
****   THE REGRESSIONS PREDICTING FRM VALUES FROM SEMI-CONTINUOUS DATA.
***
*************************************************************************
*************;
LIBNAME REGS "J:\EMD_II\WA_333_FRM_VS_FEM\NON-FRM
DATA\REVISED\MERGE\ANALYSIS";
OPTIONS NODATE NONUMBER;
%MACRO FREQ_CHECK(TYPE,DATA);
DATA ONE; SET REGS.&TYPE._ALLYRS;
    IF FRM_MEAN=. THEN DELETE;
RUN;
PROC FREQ DATA=ONE;
   TABLES METHOD REGION STATENAME SEASON CORRECTED;
   TABLES METHOD*REGION METHOD*SEASON METHOD*CORRECTED;
TITLE "FREQUENCY OF OBSERVATIONS FOR &DATA DATA";
RUN;

%MEND FREQ_CHECK;

%FREQ_CHECK(ACC,ACCEPTABLE)
%FREQ_CHECK(ATM,ATMOSPHERIC)
%FREQ_CHECK(RAW,RAW)

QUIT;
```

Program15_assign_method_number
This program assigns a method number to each unique semi-continuous monitoring method. Method numbers are required to track and maintain the distinct methods for the analysis.

```
*******************************  Program Name 15
***************************;

*************************************************************************
*************
*****  PROGRAM NAME=J:/EMD_II/WA_333_FRM_VS_FEM/FRM_SC_COMP_METHNUM
***                                                    ***
****   THIS PROGRAM ASSIGNS NUMBERS TO EACH UNIQUE SEMI-CONTINUOUS MONITORING
METHOD   ***
****   AND STORES THEM IN THE PERMANENT SAS DATA SETS TO BE USED FOR THE
REGRESSION    ***
****   ANALYSES. THIS IS DONE TO PREVENT SAS FROM COAGULATING THE METHODS IN
GLM.      ***
****   (THE DEFAULT IN GLM IS TO COMBINE LEVELS OF CLASS VARIABLES BASED ONLY
ON THE   ***
****   FIRST SIXTEEN CHARACTERS.)
***
****   CODED -- L. SMITH   06/2009
***
*************************************************************************
*************;

libname STORED "J:\EMD_II\WA_333_FRM_vs_FEM\NON-FRM
DATA\REVISED\MERGE\ANALYSIS";

%Macro GIVE_NUM(dsn,type);
PROC SORT DATA=&DSN._ALLYRS; BY METHOD;
RUN;

DATA FIRST; SET &DSN._ALLYRS; BY METHOD;
   IF FIRST.METHOD;
   KEEP METHOD;
RUN;

DATA FIRST; SET FIRST; BY METHOD;
    METHOD_NUM=_N_;
RUN;

PROC PRINT DATA=FIRST;
    VAR METHOD_NUM METHOD;
 TITLE "METHOD NUMBERING FOR SEMI-CONTINUOUS METHODS FOR &TYPE DATA";
RUN;

DATA &DSN._ALLYRS; MERGE &DSN._ALLYRS FIRST; BY METHOD;
RUN;

%MEND GIVE_NUM;

%GIVE_NUM(STORED.ACC,ACCEPTABLE)
```

```
%GIVE_NUM(STORED.ATM,ATMOSPHERIC)
%GIVE_NUM(STORED.RAW,RAW)

run;
quit;
```

Program16_FRM_on_SC_regression
This program develops the predictive equations for the three data types analyzed (*i. e.*, acceptable, atmospheric, and raw). Residual analysis and cross-validation are also included here.

```
**************************    Program Number 16
*************************;

*****************************************************************************
*************
*****  PROGRAM NAME=J:/EMD_II/WA_333_FRM_VS_FEM/FRM_SC_COMP_GLM
***                                                          ***
****   THIS PROGRAM RUNS REGRESSIONS ON THE MERGED FRM AND SEMI-CONTINUOUS
PARTICULATE  **
****   MATTER DATA FROM AQS. THE MACRO RUNS THE REGRESSION AND CONDUCTS
RESIDUAL AND    **
****   CROSS-VALIDATION ANALYSES. OUTPUT DATA SETS ARE ALSO STORED THAT
CONTAIN THE    ***
****   ORIGINAL DATA, PREDICTIONS, PARAMETER ESTIMATES WITH CONFIDENCE
INTERVALS, AND  ***
****   DIAGNOSTIC STATISTICS.
***
****   THE MACRO CODE IS RUN SEPARATELY FOR THE ACCEPTABLE, ATMOSPHERIC, AND
RAW AQS   ***
****   DATA.
***;
****   IN CONDUCTING THE ANALYSES, LSMEANS WERE ORIGINALLY SPECIFIED FOR
CHECKING      ***
****   DIFFERENCES BETWEEN THE CLASSIFICATION LEVELS. HOWEVER, ALL LSMEANS
WERE FOUND  ***
****   TO BE NON-ESTIMABLE. THEREFORE, THE CODE UTILIZES THE MEANS STATEMENT.
***
****   IN ADDITION, EACH DATA TYPE WAS RUN WITH THE INTERCEPT (INT) INCLUDED
IN THE    ***
****   MODEL. FOR THE 'ACCEPTABLE' DATA, THE INTERCEPT WAS NONSIGNIFICANT.
THEREFORE,  ***
****   IT IS RECOMMENDED THAT THE 'ACCEPTABLE' DATA BE RUN WITH THE 'NOINT'
OPTION.    ***
****   THE MACRO CODE NEED ONLY BE CHANGED TO REPLACE 'INT' WITH 'NOINT'IN
THE MODEL   ***
****   STATEMENT OPTIONS AND ADD _INT TO THE DATA SET NAME FOR THE OUTPUT
DATA SET (IF ***
****   DESIRED).
***
****   CODED -- L. SMITH  TYPED -- G. GLEN  06/2009
***
*****************************************************************************
*************;

libname out "J:\emd_II\wa_333_FRM_vs_FEM\non-frm
data\revised\merge\analysis";

%Macro frm_reg(dsn,type);
   proc glm data=&dsn._allyrs;
```

```
      class method_NUM region statename season;
      ******* INTERCEPT FOUND TO BE NONSIGNIFICANT IN INITIAL RUNS FOR ACC
AND RAW. ****;
      ******* USE NOINT OPTION FOR THESE DATA TYPES.
****;
        model frm_mean = sc_mean method_NUM region statename(region) season
              sc_mean*method_NUM sc_mean*region sc_mean*statename(region)
                  sc_mean*season / solution NOint clparm;
        means method_NUM region statename(region) season / tukey cldiff;
        output out=&dsn._frm_preds lcl=lower_95 ucl=upper_95 p=pred_frm
              r=resid student=stud_res rstudent=rstud dffits=dffits h=lev;
        title "FRM Regression"; title2 "&type";
   run;
   data diags;
      set &dsn._frm_preds;
        stddev_less_1 = resid/(rstud*sqrt(1-lev));
        pred_less_1   = pred_frm-dffits*stddev_less_1*sqrt(lev);
        std_pred_res  = (frm_mean-pred_less_1)/stddev_less_1;
   run;
   proc univariate data=diags plots;
      var std_pred_res;
        output out=crossval n=n mean=mean uss=uss;
        title "FRM cross-validation results: standardized prediction
residuals";
        title2 "&type";
   run;
   data crossval;
      set crossval;
        rms = sqrt(uss/n);
   run;
   proc print data=crossval;
      var mean rms;
        title "Mean and root mean square of FRM standardized predicted
residuals";
      title2 "&type";
   run;

   proc plot data=&dsn._frm_preds;
      plot resid*(method_NUM region season pred_frm) /vref=0;
        title "Residuals from FRM regression";
        title2 "&type";
   run;
   proc sort data=&dsn._frm_preds;
      by region statename;
   run;

   proc plot data=&dsn._frm_preds;
      by region;
        plot resid*statename /vref=0;
        title "Residuals from FRM regression";
        title2 "&type";
   run;

   proc univariate data=&dsn._frm_preds plots;
      var stud_res;
```

```
        histogram stud_res/normal;
        title "Studentized residuals from FRM regression";
      title2 "&type";
   run;

%mend FRM_REG;

%*frm_reg(out.acc,Acceptable);
%*frm_reg(out.atm,Atmospheric);
%frm_reg(out.raw,Raw);

run;
quit;
```

Program16-1QA_after_Program16_Residuals_check
This program provides further checking of residuals from the regression analysis.

```
**********************    Program Number 16.1 -- QA
*********************;

*******************************************************************************
*************
*****  PROGRAM NAME=J:/EMD_II/WA_333_FRM_VS_FEM/NON-FRM
DATA/REVISED/MERGE/SAS_CODE/    ***
****                    FRM_SC_COMP_RESIDUALS
***
****    THIS PROGRAM SIMPLY RUNS PROC UNIVARIATE ON THE RAW AND PERCENTAGE
RESIDUALS     ***
****    FROM THE FRM VS. SEMI-CONTINUOUS GLM REGRESSION/ANOVA. IT ALSO
GENERATES         ***
****    BOXPLOTS OF THE RESIDUALS.
***
*******************************************************************************
*************;

GOPTIONS COLORS=BLACK;
LIBNAME STORE "J:\EMD_II\WA_333_FRM_vs_FEM\NON-FRM
DATA\REVISED\MERGE\ANALYSIS";


**********    ACCEPTABLE DATA    ******************;
DATA ACC_RES; SET STORE.ACC_FRM_PREDS;
    RESID_PC=(RESID/FRM_MEAN)*100;
RUN;


 PROC UNIVARIATE DATA=ACC_RES;
    VAR RESID RESID_PC FRM_MEAN;
  TITLE "RESIDUALS FROM FRM VS. SC REGRESSION -- ACCEPTABLE DATA";
RUN;

PROC SORT DATA=ACC_RES; BY FRM_MEAN;
PROC BOXPLOT DATA=ACC_RES;
    PLOT (RESID RESID_PC)*FRM_MEAN / BOXSTYLE=SKELETAL CONTINUOUS HREF=0;
    *PLOT (RESID RESID_PC)*REGION / BOXSTYLE=SKELETAL HREF=0;
  TITLE "RESIDUALS FROM FRM VS. SC REGRESSION -- ACCEPTABLE DATA";



*****************   ATMOSPHERIC DATA   ****************;
DATA ATM_RES; SET STORE.ATM_FRM_PREDS;
    RESID_PC=(RESID/FRM_MEAN)*100;
RUN;


 PROC UNIVARIATE DATA=ATM_RES;
    VAR RESID RESID_PC FRM_MEAN;
```

```
  TITLE "RESIDUALS FROM FRM VS. SC REGRESSION -- ATMOSPHERIC DATA";
RUN;

PROC SORT DATA=ATM_RES; BY FRM_MEAN;
PROC BOXPLOT DATA=ATM_RES;
    PLOT (RESID RESID_PC)*FRM_MEAN / BOXSTYLE=SKELETAL CONTINUOUS HREF=0;
    *PLOT (RESID RESID_PC)*REGION / BOXSTYLE=SKELETAL HREF=0;
  TITLE "RESIDUALS FROM FRM VS. SC REGRESSION -- ATMOSPHERIC DATA";

*****************   RAW DATA   *****************;
DATA RAW_RES; SET STORE.RAW_FRM_PREDS;
    RESID_PC=(RESID/FRM_MEAN)*100;
RUN;


 PROC UNIVARIATE DATA=RAW_RES;
    VAR RESID RESID_PC FRM_MEAN;
  TITLE "RESIDUALS FROM FRM VS. SC REGRESSION -- RAW DATA";
RUN;

PROC SORT DATA=RAW_RES; BY FRM_MEAN;
PROC BOXPLOT DATA=RAW_RES;
    PLOT (RESID RESID_PC)*FRM_MEAN / BOXSTYLE=SKELETAL CONTINUOUS HREF=0;
    *PLOT (RESID RESID_PC)*REGION / BOXSTYLE=SKELETAL HREF=0;
  TITLE "RESIDUALS FROM FRM VS. SC REGRESSION -- RAW DATA";

RUN;
QUIT;
```

Program16-9_before _Program17_locate_regional_sites
This program searches for sites which may be used to assess the performance of the predictive models for specific (user-selected) geographic regions.

```
***************************  Program 16.9  ***********************;

*************************************************************************
*************
****  PROGRAM NAME=J:/EMD_II/WA_333_FRM_VS_FEM/NON-FRM DATA/REVISED/
                            MERGE/ANALYSIS/SAS_CODE/BALT_SITES
****                                                          ***
****   THIS PROGRAM EXTRACTS SITES (COLOCATED SC/FRM) FROM MARYLAND, DC,
PENNSYLVANIA,  **
****   AND VIRGINIA FOR POTENTIAL USE IN ASSESSING MODEL UTILITY IN THE
BALTIMORE AREA. **
****   DELAWARE AND NEW JERSEY ADDED LATER.
***
****   NEW YORK ADDED LATER.
***
*************************************************************************
*************;
****   The CITY and COMMENT variables are only for general reference in
helping to    ****
****   roughly describe the site locations.
****;
LIBNAME TMP1 "J:\EMD_II\WA_333_FRM_VS_FEM\NON-FRM
DATA\REVISED\MERGE\ANALYSIS";
OPTIONS NODATE NONUMBER;
%MACRO BALT_SITES(TYPE,DATA);
DATA BALT_&TYPE; SET TMP1.&TYPE._ALLYRS;
      IF STATE=36;
     *IF STATE IN (11, 24, 42, 51,10,34);
 PROC SORT DATA=BALT_&TYPE; BY SITE_ID;
DATA BALT_&TYPE; SET BALT_&TYPE; BY SITE_ID;
   IF FIRST.SITE_ID;
   LENGTH CITY $ 25 COMMENT $ 51; CITY=" "; COMMENT=" ";
  IF COUNTYNM="DISTRICT OF COLUMBIA" THEN DO;
        CITY="WASHINGTON, DC";
            COMMENT="DC";
  END;
  IF COUNTYNM="BALTIMORE CITY" THEN DO;
        CITY="BALTIMORE";
            COMMENT="BALTIMORE";
  END;
  IF COUNTYNM="ALLEGHENY" THEN DO;
        CITY="PITTSBURGH";
            COMMENT="WESTERN PA";
  END;
  IF COUNTYNM="PHILADELPHIA" THEN DO;
        CITY="PHILADELPHIA";
            COMMENT="PHILADELPHIA";
  END;
  IF COUNTYNM="CECIL" THEN DO;
```

```
        CITY="CHESTERTOWN";
            COMMENT="ACROSS CHESAPEAKE BAY FROM BALTIMORE";
  END;
  IF COUNTYNM="PRINCE GEORGES" THEN DO;
        CITY="GREENBELT";
            COMMENT="ABUTS WASHINGTON, DC";
  END;
  IF COUNTYNM="WASHINGTON" AND STATENAME="Maryland" THEN DO;
        CITY="HAGERSTOWN";
            COMMENT="IN THE MARYLAND PANHANDLE";
  END;
  IF COUNTYNM="ADAMS" THEN DO;
        CITY="GETTYSBURG";
            COMMENT="BORDERS FREDERICK CO., MD";
  END;
 IF COUNTYNM="CAMBRIA" THEN DO;
        CITY="JOHNSTOWN";
            COMMENT="WESTERN PA";
  END;
  IF COUNTYNM="DAUPHIN" THEN DO;
        CITY="HARRISBURG";
            COMMENT="NORTH OF YORK, PA";
  END;
  IF COUNTYNM="DELAWARE" THEN DO;
        CITY="BROOMALL";
            COMMENT="BORDERS PHILADELPHIA AND DE";
  END;
  IF COUNTYNM="NORTHAMPTON" THEN DO;
        CITY="BETHLEHEM";
            COMMENT="NORTH OF PHILADELPHIA, BORDERS NJ";
  END;
  IF COUNTYNM="WASHINGTON" AND STATENAME="Pennsylvania" THEN DO;
        CITY="WASHINGTON";
            COMMENT="SW OF PITTSBURGH, BORDERS WV PANHANDLE";
  END;
  IF COUNTYNM="FAIRFAX" THEN DO;
        CITY="FAIRFAX";
            COMMENT="DC AREA";
  END;
  IF COUNTYNM="FREDERICK" THEN DO;
        CITY="WINCHESTER";
            COMMENT="NO. VA MOUNTAINS";
  END;
IF COUNTYNM="HENRICO" THEN DO;
        CITY="--";
            COMMENT="NEAR RICHMOND";
  END;
  IF COUNTYNM="MADISON" THEN DO;
        CITY="MADISON";
            COMMENT="VA MOUNTAINS, SHENANDOAH NP";
  END;
  IF COUNTYNM="HAMPTON CITY" THEN DO;
        CITY="HAMPTON";
            COMMENT="SOUTH END OF CHESAPEAKE BAY";
  END;
```

```
  IF COUNTYNM="ROANOKE CITY" THEN DO;
        CITY="ROANOKE";
            COMMENT="WESTERN VA MOUNTAINS";
  END;
  IF COUNTYNM="BEAVER" THEN DO;
        CITY="ALIQUIPPA";
            COMMENT="WEST OF PITTSBURGH, BORDERS OH";
  END;
  IF COUNTYNM="BERKS" THEN DO;
        CITY="READING";
            COMMENT="NE OF LANCASTER";
  END;
  IF COUNTYNM="LANCASTER" THEN DO;
        CITY="LANCASTER";
            COMMENT="BORDERS YORK CO., PA AND CECIL CO., MD";
  END;
IF COUNTYNM="MONTGOMERY" THEN DO;
        CITY="NORRISTOWN";
            COMMENT="BORDERS PHILADELPHIA";
  END;
  IF COUNTYNM="YORK" THEN DO;
        CITY="YORK";
            COMMENT="BORDERS BALTIMORE CO., MD";
  END;
IF COUNTYNM="KENT" THEN DO;
        CITY="DOVER";
            COMMENT="MIDDLE DE";
  END;
  IF COUNTYNM="NEW CASTLE" THEN DO;
        CITY="WILMINGTON";
            COMMENT="NORTHERN DE";
  END;
IF COUNTYNM="SUSSEX" THEN DO;
        CITY="GEORGETOWN";
            COMMENT="SOUTHERN DE";
  END;
  IF COUNTYNM="CAMDEN" THEN DO;
        CITY="CAMDEN";
            COMMENT="BORDERS PHILADELPHIA";
  END;
  IF COUNTYNM="MIDDLESEX" THEN DO;
        CITY="NEW BRUNSWICK";
            COMMENT="BORDERS RARITAN BAY, ACROSS FROM STATEN IS., NY";
  END;
  IF COUNTYNM="UNION" THEN DO;
        CITY="ELIZABETH";
            COMMENT="BORDERS NEWARK BAY, ACROSS FROM STATEN IS., NY";
  END;
  IF COUNTYNM="HUDSON" THEN DO;
        CITY="JERSEY CITY";
            COMMENT="BORDERS HUDSON RIVER, ACROSS FROM MANHATTAN IS., NY";
  END;

  IF COUNTYNM="ALBANY" THEN DO;
        CITY="ALBANY";
```

```
            COMMENT="NEAR MASSACHUSETTS";
  END;
  IF COUNTYNM="BRONX" THEN DO;
        CITY="NEW YORK CITY";
            COMMENT="ABOVE MANHATTAN IS.";
  END;

  IF COUNTYNM="ERIE" THEN DO;
        CITY="BUFFALO";
            COMMENT="BORDERS LAKE ERIE";
  END;
  IF COUNTYNM="ESSEX" THEN DO;
        CITY="LAKE PLACID";
            COMMENT="NORTHEASTERN NY, BORDERS LAKE CHAMPLAIN AND VT";
  END;

  IF COUNTYNM="MONROE" THEN DO;
        CITY="ROCHESTER";
            COMMENT="BORDERS LAKE ONTARIO";
  END;
  IF COUNTYNM="NEW YORK" THEN DO;
        CITY="NEW YORK CITY";
            COMMENT="MANHATTAN IS.";
  END;

  IF COUNTYNM="NIAGARA" THEN DO;
        CITY="NIAGARA FALLS";
            COMMENT="ABOVE BUFFALO, BORDERS LAKE ONTARIO";
  END;
  IF COUNTYNM="ORANGE" THEN DO;
        CITY="WEST POINT";
            COMMENT="BORDERS NORTHERN NJ AND EASTERN PA";
  END;
  IF COUNTYNM="QUEENS" THEN DO;
        CITY="NEW YORK CITY";
            COMMENT="ON LONG ISLAND, BEWTEEN BROOKLYN AND NASSAU COUNTY";
  END;
  IF COUNTYNM="STEUBEN" THEN DO;
        CITY="CORNING";
            COMMENT="WESTERN NY, BORDERS NORTHERN PA";
  END;


PROC PRINT DATA=BALT_&TYPE;
   VAR SITE_ID STATENAME COUNTYNM CITY COMMENT REGION ;
TITLE "BALTIMORE AREA POTENTIAL CHECK SITES -- &DATA";
%MEND BALT_SITES;

%BALT_SITES(ACC,ACCEPTABLE)
%BALT_SITES(ATM,ATMOSPHERIC)
%BALT_SITES(RAW,RAW)

RUN;
QUIT;
```

Program17_FRM_SC_Area_check
This program checks the performance of the predictive equations for specific (user-selected) geographic regions.

```
************************   Program Number 17   ***************************;

*****************************************************************************
*************
*****  PROGRAM NAME=J:/EMD_II/WA_333_FRM_VS_FEM/NON-FRM
DATA/FRM_SC_COMP_CHECK          ***
***
****   THIS PROGRAM CHECKS THE RESULTS OF THE FRM ON SEMI-CONTINUOUS
REGRESSIONS.       ***
****   PREFORMANCE IS ASSESSED VIA PLOTS OF THE PREDICTED VALUES AND THEIR
UPPER AND   ***
****   LOWER 95% CONFIDENCE LIMITS AGAINST THE FRM MEASUREMENTS.
***
****   IN ADDITION, PLOTS ARE GENERATED FOR SITES IN THE GENERAL REGION
AROUND          ***
****   BALTIMORE AND A "BALTIMORE SPECIFIC" R2 IS CALCULATED.
***
****                    L. SMITH   06/2009
***
*****************************************************************************
*************;

LIBNAME REGS "J:\emd_II\wa_333_FRM_vs_FEM\non-frm
data\revised\merge\analysis";
LIBNAME MAPSITES
         "J:\emd_II\wa_333_FRM_vs_FEM\non-frm
data\revised\merge\analysis\MAPPING_SITES";

/*
**********  THE FOLLOWING MACRO PLOTS THE PREDICTED VALUES FOR ALL SITES
*********;
**********  POINTS ARE SO NUMEROUS AND CLOSELY SPACED THAT IT'S NOT VERY
USEFUL ****;
%MACRO PLOT_PREDS(DSN,TYPE,SITES);
PROC PLOT DATA=&DSN._FRM_PREDS;
      PLOT LOWER_95*FRM_MEAN="L"  UPPER_95*FRM_MEAN="U" PRED_FRM*FRM_MEAN="P"
             / OVERLAY;
     TITLE "PREDICTED FRM PM2.5 FROM SEMI-CONTINUOUS MONITORS";
       TITLE2 "WITH UPPER AND LOWER 95% CONFIDENCE LIMITS FOR PREDICTED
VALUES";
     TITLE3 "&TYPE -- &SITES SITES";
RUN;
%MEND PLOT_PREDS;
*/

***********  THE FOLLOWING MACRO SUBSETS THE REGRESSION RESULTS FOR A
PARTICULAR AREA *****;
%MACRO SUBSET_R2(DSN,AREA,TYPE);
DATA SUBSET; SET &DSN;
```

```
PROC UNIVARIATE DATA=SUBSET;
   VAR RESID FRM_MEAN;
   OUTPUT OUT=SUBSET_R2
              USS=SSE SSFRM
              CSS=RES_SS_C SST;
 TITLE "RESIDUALS AND FRM VALUES IN THE &AREA";
 TITLE2 "&TYPE DATA";
RUN;

DATA SUBSET_R2; SET SUBSET_R2;
    R2=1 - (SSE/SST);
PROC PRINT DATA=SUBSET_R2;
     VAR R2;
  TITLE "R2 CALCULATED ONLY FOR &AREA SITES";
  TITLE2 "&TYPE DATA";
RUN;

%MEND SUBSET_R2;

*********************  SUBSET BALTIMORE AREA   *******************;

*********   BEGIN WITH SETTING UP "LARGER" BALTIMORE AREA     ***
*********     -- EXTENDING TO NEWARK, ROANOKE, AND PITTSBURGH ***;
*********   DELETE SITES REJECTED BY ERIC HALL FOR THIS  CHECK
*************;
DATA BIGBALT_AREA_ACC; SET REGS.ACC_FRM_PREDS;
    IF STATE IN (11, 24, 42, 51,10,34);
DATA BIGBALT_AREA_ATM; SET REGS.ATM_FRM_PREDS;
    IF STATE IN (11, 24, 42, 51,10,34);
    IF SITE_ID="420070014" THEN DELETE;
DATA BIGBALT_AREA_RAW; SET REGS.RAW_FRM_PREDS;
    IF STATE IN (11, 24, 42, 51,10,34);
    IF SITE_ID="420950025" THEN DELETE;
    IF SITE_ID="421250005" THEN DELETE;

*******  NOW SET UP "NEAR" AREA, CLOSER TO BALTIMORE    *******
*******  COVERING MARYLAND, DELAWARE, DC AREA, AND UP TO PHILADELPHIA.  ****;
DATA NEARBALT_AREA_ACC; SET BIGBALT_AREA_ACC;
    IF SITE_ID IN ("420030008","420030064","340171003","340230006",
                   "340390004","340392003") THEN DELETE;
DATA NEARBALT_AREA_ATM; SET BIGBALT_AREA_ATM;
    IF SITE_ID IN ("340171003","340230006","340390004") THEN DELETE;
DATA NEARBALT_AREA_RAW; SET BIGBALT_AREA_RAW;
    IF SITE_ID IN ("420030008","420030064","420210011","420430401",

"420450002","510690010","510870014","511130003","516500004","517700015",
                  "340230006","340390004" ) THEN DELETE;

**** SUBSET FOR BALTIMORE CITY ONLY **********;
**** THERE IS ONLY ONE BALTIMORE CITY SITE (COLOCATED SC/FRM) ******;
**** SAME SITE NUMBER FOR BOTH ACCEPTABLE AND RAW. NONE FOR ATMOSPHERIC
*****;
DATA BALT_CITY_ACC; SET REGS.ACC_FRM_PREDS;
   IF SITE_ID="245100040";
DATA BALT_CITY_RAW; SET REGS.RAW_FRM_PREDS;
```

```
   IF SITE_ID="245100040";
RUN;

*********   EXTRACT NEW YORK STATE    *************;
DATA NEW_YORK_ACC; SET REGS.ACC_FRM_PREDS;
    IF STATE=36;
DATA NEW_YORK_ATM; SET REGS.ATM_FRM_PREDS;
    IF STATE=36;
DATA NEW_YORK_RAW; SET REGS.RAW_FRM_PREDS;
    IF STATE=36;

*******  NOW COMBINE NEW YORK WITH LARGER BALTIMORE AREA TO FORM MID-ATLANTIC
****;
DATA MID_ATLANTIC_ACC; SET BIGBALT_AREA_ACC NEW_YORK_ACC;
DATA MID_ATLANTIC_ATM; SET BIGBALT_AREA_ATM NEW_YORK_ATM;
DATA MID_ATLANTIC_RAW; SET BIGBALT_AREA_RAW NEW_YORK_RAW;

 /*
%PLOT_PREDS(REGS.ACC,ACCEPTABLE,BALTIMORE AREA);
%PLOT_PREDS(REGS.ATM,ATMOSPHERIC,BALTIMORE AREA);
%PLOT_PREDS(REGS.RAW,RAW,BALTIMORE AREA);

%SUBSET_R2(BIGBALT_AREA_ACC,LARGER BALTIMORE AREA, ACCEPTABLE)
%SUBSET_R2(BIGBALT_AREA_ATM,LARGER BALTIMORE AREA, ATMOSPHERIC)
%SUBSET_R2(BIGBALT_AREA_RAW,LARGER BALTIMORE AREA, RAW)

%SUBSET_R2(NEARBALT_AREA_ACC,NEAR BALTIMORE AREA, ACCEPTABLE)
%SUBSET_R2(NEARBALT_AREA_ATM,NEAR BALTIMORE AREA, ATMOSPHERIC)
%SUBSET_R2(NEARBALT_AREA_RAW,NEAR BALTIMORE AREA, RAW)

%SUBSET_R2(BALT_CITY_ACC,BALTIMORE CITY,ACCEPTABLE)
%SUBSET_R2(BALT_CITY_RAW,BALTIMORE CITY,RAW)
*/
%SUBSET_R2(MID_ATLANTIC_ACC,MID-ATLANTIC AREA, ACCEPTABLE)
%SUBSET_R2(MID_ATLANTIC_ATM,MID-ATLANTIC AREA, ATMOSPHERIC)
%SUBSET_R2(MID_ATLANTIC_RAW,MID-ATLANTIC AREA, RAW)

%SUBSET_R2(NEW_YORK_ACC,NEW YORK STATE, ACCEPTABLE)
%SUBSET_R2(NEW_YORK_ATM,NEW YORK STATE, ATMOSPHERIC)
%SUBSET_R2(NEW_YORK_RAW,NEW YORK STATE, RAW)
;

*********  OUTPUT SITE IDS FOR USE IN SETTING UP PLOTS OF SITES VIA GIS
**********;

DATA MAPSITES.MID_ATLANTIC_ACC_SITES; SET MID_ATLANTIC_ACC(KEEP=SITE_ID);
    PROC SORT DATA=MAPSITES.MID_ATLANTIC_ACC_SITES; BY SITE_ID;
  DATA MAPSITES.MID_ATLANTIC_ACC_SITES; SET MAPSITES.MID_ATLANTIC_ACC_SITES;
BY SITE_ID;
  IF FIRST.SITE_ID;
DATA MAPSITES.MID_ATLANTIC_ATM_SITES; SET MID_ATLANTIC_ATM(KEEP=SITE_ID);
     PROC SORT DATA=MAPSITES.MID_ATLANTIC_ATM_SITES; BY SITE_ID;
  DATA MAPSITES.MID_ATLANTIC_ATM_SITES; SET MAPSITES.MID_ATLANTIC_ATM_SITES;
BY SITE_ID;
  IF FIRST.SITE_ID;
```

```
DATA MAPSITES.MID_ATLANTIC_RAW_SITES; SET MID_ATLANTIC_RAW(KEEP=SITE_ID);
     PROC SORT DATA=MAPSITES.MID_ATLANTIC_RAW_SITES; BY SITE_ID;
  DATA MAPSITES.MID_ATLANTIC_RAW_SITES; SET MAPSITES.MID_ATLANTIC_RAW_SITES;
BY SITE_ID;
  IF FIRST.SITE_ID;

DATA MAPSITES.NEW_YORK_ACC_SITES; SET NEW_YORK_ACC(KEEP=SITE_ID);
    PROC SORT DATA=MAPSITES.NEW_YORK_ACC_SITES; BY SITE_ID;
  DATA MAPSITES.NEW_YORK_ACC_SITES; SET MAPSITES.NEW_YORK_ACC_SITES; BY
SITE_ID;
  IF FIRST.SITE_ID;
DATA MAPSITES.NEW_YORK_ATM_SITES; SET NEW_YORK_ATM(KEEP=SITE_ID);
     PROC SORT DATA=MAPSITES.NEW_YORK_ATM_SITES; BY SITE_ID;
  DATA MAPSITES.NEW_YORK_ATM_SITES; SET MAPSITES.NEW_YORK_ATM_SITES; BY
SITE_ID;
  IF FIRST.SITE_ID;
DATA MAPSITES.NEW_YORK_RAW_SITES; SET NEW_YORK_RAW(KEEP=SITE_ID);
     PROC SORT DATA=MAPSITES.NEW_YORK_RAW_SITES; BY SITE_ID;
  DATA MAPSITES.NEW_YORK_RAW_SITES; SET MAPSITES.NEW_YORK_RAW_SITES; BY
SITE_ID;
  IF FIRST.SITE_ID;

DATA MAPSITES.BALT_CITY_ACC_SITES; SET BALT_CITY_ACC(KEEP=SITE_ID);
    PROC SORT DATA=MAPSITES.BALT_CITY_ACC_SITES; BY SITE_ID;
  DATA MAPSITES.BALT_CITY_ACC_SITES; SET MAPSITES.BALT_CITY_ACC_SITES; BY
SITE_ID;
  IF FIRST.SITE_ID;
DATA MAPSITES.BALT_CITY_RAW_SITES; SET BALT_CITY_RAW(KEEP=SITE_ID);
     PROC SORT DATA=MAPSITES.BALT_CITY_RAW_SITES; BY SITE_ID;
  DATA MAPSITES.BALT_CITY_RAW_SITES; SET MAPSITES.BALT_CITY_RAW_SITES; BY
SITE_ID;
  IF FIRST.SITE_ID;

DATA MAPSITES.NEARBALT_AREA_ACC_SITES; SET NEARBALT_AREA_ACC(KEEP=SITE_ID);
   PROC SORT DATA=MAPSITES.NEARBALT_AREA_ACC_SITES; BY SITE_ID;
  DATA MAPSITES.NEARBALT_AREA_ACC_SITES; SET
MAPSITES.NEARBALT_AREA_ACC_SITES; BY SITE_ID;
  IF FIRST.SITE_ID;
DATA MAPSITES.NEARBALT_AREA_ATM_SITES; SET NEARBALT_AREA_ATM(KEEP=SITE_ID);
   PROC SORT DATA=MAPSITES.NEARBALT_AREA_ATM_SITES; BY SITE_ID;
  DATA MAPSITES.NEARBALT_AREA_ATM_SITES; SET
MAPSITES.NEARBALT_AREA_ATM_SITES; BY SITE_ID;
  IF FIRST.SITE_ID;
DATA MAPSITES.NEARBALT_AREA_RAW_SITES; SET NEARBALT_AREA_RAW(KEEP=SITE_ID);
   PROC SORT DATA=MAPSITES.NEARBALT_AREA_RAW_SITES; BY SITE_ID;
  DATA MAPSITES.NEARBALT_AREA_RAW_SITES; SET
MAPSITES.NEARBALT_AREA_RAW_SITES; BY SITE_ID;
  IF FIRST.SITE_ID;

DATA MAPSITES.BIGBALT_AREA_ACC_SITES; SET BIGBALT_AREA_ACC(KEEP=SITE_ID);
   PROC SORT DATA=MAPSITES.BIGBALT_AREA_ACC_SITES; BY SITE_ID;
  DATA MAPSITES.BIGBALT_AREA_ACC_SITES; SET MAPSITES.BIGBALT_AREA_ACC_SITES;
BY SITE_ID;
  IF FIRST.SITE_ID;
DATA MAPSITES.BIGBALT_AREA_ATM_SITES; SET BIGBALT_AREA_ATM(KEEP=SITE_ID);
```

```
  PROC SORT DATA=MAPSITES.BIGBALT_AREA_ATM_SITES; BY SITE_ID;
  DATA MAPSITES.BIGBALT_AREA_ATM_SITES; SET MAPSITES.BIGBALT_AREA_ATM_SITES;
BY SITE_ID;
  IF FIRST.SITE_ID;
DATA MAPSITES.BIGBALT_AREA_RAW_SITES; SET BIGBALT_AREA_RAW(KEEP=SITE_ID);
   PROC SORT DATA=MAPSITES.BIGBALT_AREA_RAW_SITES; BY SITE_ID;
  DATA MAPSITES.BIGBALT_AREA_RAW_SITES; SET MAPSITES.BIGBALT_AREA_RAW_SITES;
BY SITE_ID;
  IF FIRST.SITE_ID;


RUN;
QUIT;
```

Program18_standard_violation_check

This program checks the performance of the predictive equations with respect to days when either the measured or predicted $PM_{2.5}$ value exceed the National Ambient Air Quality Standard (NAAQS) values.

```
*****************************  Program Number 18    *************************;

/*   Violation.sas -
Analysis of violation days for both FRM and predicted.

The initial data step creates two data sets, one with FRM>=35
and the other with predicted>=35.  Each record corresponds to
one violation day and has an indicator showing whether the
other PM level also exceeds 35 or not.  Residuals plots are
also done.

*/
LIBNAME STORE "J:\EMD_II\WA_333_FRM_vs_FEM\NON-FRM
DATA\REVISED\MERGE\ANALYSIS";

%macro v(t);
data frm_high pred_high;
   set store.&t._frm_preds;
   if frm_mean=. then delete;
   if frm_mean>=35 then do;
      if pred_frm>=35 then predhi=1; else predhi=0;
      output frm_high;
   end;
   if pred_frm>=35 then do;
      if frm_mean>=35 then frmhi=1; else frmhi=0;
      output pred_high;
   end;
run;

title "&t FRM_high";
proc freq data=frm_high; tables predhi; run;
proc univariate data= frm_high; var resid; run;
proc gplot data=frm_high;
   plot resid*frm_mean;
run; quit;

title "&t Pred_high";
proc freq data=pred_high; tables frmhi; run;
proc univariate data= pred_high; var resid; run;
proc gplot data=pred_high;
   plot resid*pred_frm;
run; quit;
%mend;

%v(ACC)
%v(ATM)
%v(RAW)
```

Program19_histograms_CDFs_summaries

This program generates CDFs and side-by-side histograms to compare both the measured and predicted concentration values. In addition, data sets of summary statistics for different conditions are also generated.

```
*****************************   Program Number 19
***************************;

*******************************************************************************
*************
****   THIS PROGRAM GENERATES CDFs AND SIDE BY SIDE HISTOGRAMS OF THE
MEASURED AND   *****
****   PREDCITED FRM VALUES FOR DIFFERENT CASES. PERMANENT SAS DATA SETS ARE
ALSO    *****
****   CREATED CONTAINING SUMMARY STATISTICS FOR DIFFERENT CASES.
*****
*******************************************************************************
*************;
*GOPTIONS COLORS=BLACK;
LIBNAME STORE "J:\EMD_II\WA_333_FRM_vs_FEM\NON-FRM
DATA\REVISED\MERGE\ANALYSIS";

%macro plotall(t);

options notes;
*** First do all data of this type;
data &t._plot;
   set store.&t._frm_preds;
   length type $10;
   keep type frm region resid;
   if frm_mean>. and pred_frm>.;
   label frm='PM2.5 (ug/m3)';
   type = 'FRM';
   frm  = frm_mean;
   output;
   type = 'Predicted';
   frm  = pred_frm;
   output;
run;

title "&t PM2.5 data - observed and predicted";
proc univariate data=&t._plot noprint;
   var frm;
   class type;
   histogram /nrows=1 ncols=2 cfill=gray vaxis=0 5 10 15 20 25 30 35
midpoints=0 to 175 by 5;
run; quit;

proc univariate data=&t._plot noprint;
   var frm;
   class region type;
   histogram /nrows=6 ncols=2 cfill=gray vaxis=0 5 10 15 20 25 30 35
midpoints=0 to 175 by 5;
run; quit;
```

```
data &t._obs &t._pred;
   set &t._plot end=eof;
   if type='FRM'  then output &t._obs;
   if type='Predicted' then output &t._pred;
   if eof then call symput("&t._count",trim(left(_N_/2)));
run;
proc sort data=&t._obs;  by frm; run;
proc sort data=&t._pred; by frm; run;
data &t._obs;
   set &t._obs;
   pctl = 100*_N_/(&&&t._count+1);
   rename frm=frm_obs;
run;
data &t._pred;
   set &t._pred;
   pctl = 100*_N_/(&&&t._count+1);
   rename frm=frm_pred;
run;
data &t._obs_tiny;
   set &t._obs;
   if frm_obs<1;
run;
data &t._pred_tiny;
   set &t._pred;
   if frm_pred<1;
run;
data &t._both;
   merge &t._obs &t._pred;
   by pctl;
   label frm_obs = 'PM2.5 (ug/m3)';
run;
title "CDF for &t PM2.5 data";
proc gplot data=&t._both;
   plot pctl*frm_obs pctl*frm_pred /overlay haxis=0 to 100 by 10;
run; quit;

*** Next do days with FRM>=35;
data &t._high;
   set store.&t._frm_preds;
   length type $10;
   keep type frm region resid;
   if frm_mean>=35 and pred_frm>.;
   label frm='PM2.5 (ug/m3)';
   type = 'FRM';
   frm  = frm_mean;
   output;
   type = 'Predicted';
   frm  = pred_frm;
   output;
run;
title "&t PM2.5 data with FRM>=35 : observed and predicted";

proc univariate data=&t._high noprint;
   var frm;
   class type;
```

```
   histogram /nrows=1 ncols=2 cfill=gray vaxis=0 5 10 15 20 25 30 35
midpoints=0 to 175 by 5;
run; quit;

proc univariate data=&t._high noprint;
   var frm;
   class region type;
   histogram /nrows=6 ncols=2 cfill=gray vaxis=0 10 20 30 40 50 60
midpoints=0 to 175 by 5;
run; quit;

data &t._obs_high &t._pred_high;
   set &t._high end=eof;
   if type='FRM'  then output &t._obs_high;
   if type='Predicted' then output &t._pred_high;
   if eof then call symput("&t._count",trim(left(_N_/2)));
run;
proc sort data=&t._obs_high;  by frm; run;
proc sort data=&t._pred_high; by frm; run;
data &t._obs_high;
   set &t._obs_high;
   pctl = 100*_N_/(&&&t._count+1);
   rename frm=frm_obs;
run;
data &t._pred_high;
   set &t._pred_high;
   pctl = 100*_N_/(&&&t._count+1);
   rename frm=frm_pred;
run;
data &t._both_high;
   merge &t._obs_high &t._pred_high;
   by pctl;
   label frm_obs = 'PM2.5 (ug/m3)';
run;
title "CDF for &t PM2.5 data with FRM>=35";
proc gplot data=&t._both_high;
   plot pctl*frm_obs pctl*frm_pred /overlay haxis=0 to 100 by 10;
run; quit;

*** Finally, do days with FRM<35;
data &t._low;
   set store.&t._frm_preds;
   length type $10;
   keep type frm region resid;
   if .<frm_mean<35 and pred_frm>.;
   label frm='PM2.5 (ug/m3)';
   type = 'FRM';
   frm  = frm_mean;
   output;
   type = 'Predicted';
   frm  = pred_frm;
   output;
run;
title "&t PM2.5 data with FRM<35 : observed and predicted";
```

```
proc univariate data=&t._low noprint;
   var frm;
   class type;
   histogram /nrows=1 ncols=2 cfill=gray vaxis=0 5 10 15 20 25 30 35
midpoints=0 to 50 by 5;
run; quit;

proc univariate data=&t._low noprint;
   var frm;
   class region type;
   histogram /nrows=6 ncols=2 cfill=gray vaxis=0 10 20 30 40 50 60
midpoints=0 to 50 by 5;
run; quit;

data &t._obs_low &t._pred_low;
   set &t._low end=eof;
   if type='FRM'  then output &t._obs_low;
   if type='Predicted' then output &t._pred_low;
   if eof then call symput("&t._count",trim(left(_N_/2)));
run;
proc sort data=&t._obs_low;  by frm; run;
proc sort data=&t._pred_low; by frm; run;
data &t._obs_low;
   set &t._obs_low;
   pctl = 100*_N_/(&&&t._count+1);
   rename frm=frm_obs;
run;
data &t._pred_low;
   set &t._pred_low;
   pctl = 100*_N_/(&&&t._count+1);
   rename frm=frm_pred;
run;
data &t._both_low;
   merge &t._obs_low &t._pred_low;
   by pctl;
   label frm_obs = 'PM2.5 (ug/m3)';
run;
title "CDF for &t PM2.5 data with FRM<35";
proc gplot data=&t._both_low;
   plot pctl*frm_obs pctl*frm_pred /overlay haxis=0 to 100 by 10;
run; quit;

*** Next do days with Pred>=35;
data &t._highp;
   set store.&t._frm_preds;
   length type $10;
   keep type frm region resid;
   if frm_mean>. and pred_frm>=35;
   label frm='PM2.5 (ug/m3)';
   type = 'FRM';
   frm  = frm_mean;
   output;
   type = 'Predicted';
   frm  = pred_frm;
   output;
```

```
run;
title "&t PM2.5 data with Pred>=35 : observed and predicted";

proc univariate data=&t._highp noprint;
   var frm;
   class type;
   histogram /nrows=1 ncols=2 cfill=gray vaxis=0 5 10 15 20 25 30 35
midpoints=0 to 175 by 5;
run; quit;

proc univariate data=&t._highp noprint;
   var frm;
   class region type;
   histogram /nrows=6 ncols=2 cfill=gray vaxis=0 10 20 30 40 50 60
midpoints=0 to 175 by 5;
run; quit;

data &t._obs_highp &t._pred_highp;
   set &t._highp end=eof;
   if type='FRM'  then output &t._obs_highp;
   if type='Predicted' then output &t._pred_highp;
   if eof then call symput("&t._count",trim(left(_N_/2)));
run;
proc sort data=&t._obs_highp;  by frm; run;
proc sort data=&t._pred_highp; by frm; run;
data &t._obs_highp;
   set &t._obs_highp;
   pctl = 100*_N_/(&&&t._count+1);
   rename frm=frm_obs;
run;
data &t._pred_highp;
   set &t._pred_highp;
   pctl = 100*_N_/(&&&t._count+1);
   rename frm=frm_pred;
run;
data &t._both_highp;
   merge &t._obs_highp &t._pred_highp;
   by pctl;
   label frm_obs = 'PM2.5 (ug/m3)';
run;
title "CDF for &t PM2.5 data with Pred>=35";
proc gplot data=&t._both_highp;
   plot pctl*frm_obs pctl*frm_pred /overlay haxis=0 to 100 by 10;
run; quit;

%mend;
/*
%plotall(ACC)
%plotall(ATM)
%plotall(RAW)

title "ATM PM2.5 residuals";
proc univariate data=store.ATM_frm_preds;
   var resid;
run;
```

```
title "RAW PM2.5 residuals";
proc univariate data=store.RAW_frm_preds;
   var resid;
run;
*/

options notes;
%macro pct(t);
data &t;
   set store.&t._frm_preds;
   keep frm_mean sc_mean region method season statename;
   if frm_mean>. and sc_mean>.;
run;
proc sort data=&t; by method; run;
proc univariate data=&t;
   by method;
   var frm_mean;
   title "&t PM2.5 FRM data";
   output out=store.&t._frm_method n=n min=min mean=mean max=max pctlpts=5 10
25 30 50 60 75 90 95 pctlpre=p;
run;
proc univariate data=&t;
   by method;
   var sc_mean;
   title "&t PM2.5 SC data";
   output out=store.&t._sc_method n=n min=min mean=mean max=max pctlpts=5 10
25 30 50 60 75 90 95 pctlpre=p;
run;
proc sort data=&t; by region; run;
proc univariate data=&t;
   by region;
   var frm_mean;
   title "&t PM2.5 FRM data";
   output out=store.&t._frm_region n=n min=min mean=mean max=max pctlpts=5 10
25 30 50 60 75 90 95 pctlpre=p;
run;
proc univariate data=&t;
   by region;
   var sc_mean;
   title "&t PM2.5 SC data";
   output out=store.&t._sc_region n=n min=min mean=mean max=max pctlpts=5 10
25 30 50 60 75 90 95 pctlpre=p;
run;
proc sort data=&t; by statename; run;
proc univariate data=&t;
   by statename;
   var frm_mean;
   title "&t PM2.5 FRM data";
   output out=store.&t._frm_state n=n min=min mean=mean max=max pctlpts=5 10
25 30 50 60 75 90 95 pctlpre=p;
run;
proc univariate data=&t;
   by statename;
   var sc_mean;
   title "&t PM2.5 SC data";
```

```
   output out=store.&t._sc_state n=n min=min mean=mean max=max pctlpts=5 10
25 30 50 60 75 90 95 pctlpre=p;
run;
proc sort data=&t; by season; run;
proc univariate data=&t;
   by season;
   var frm_mean;
   title "&t PM2.5 FRM data";
   output out=store.&t._frm_season n=n min=min mean=mean max=max pctlpts=5 10
25 30 50 60 75 90 95 pctlpre=p;
run;
proc univariate data=&t;
   by season;
   var sc_mean;
   title "&t PM2.5 SC data";
   output out=store.&t._sc_season n=n min=min mean=mean max=max pctlpts=5 10
25 30 50 60 75 90 95 pctlpre=p;
run;
%mend;
%pct(ACC)
%pct(ATM)
%pct(RAW)
```

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Environmental Protection
Agency

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