

AQS APPENDICES

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Note to Users:

The most reliable list of codes may be found by viewing the code tables themselves. For the most up-to-date lists, access the database tables by using Oracle Discoverer, or browse the application itself. While not every list of codes is available through drop-down menus from the client application, many are, especially the large tables like Parameter Codes and Method Codes. These large tables are not included in these Appendices. The code tables also include status indicators, which show codes that are used in production (P), or codes that are now inactive (I).

Inactive codes are also not included in these Appendices. Inactive codes are maintained on the tables as historic data, but are no longer used for new data input, so they are not included in the Data Coding Manual or Appendices.

APPENDIX A
ACCURACY TYPES

Accuracy Type
PE

APPENDIX B

ACRONYMS¹

A

AQ	Air Quality
AQCR	Air Quality Control Region
AQS	Air Quality System

B

C

CFR	Code of Federal Regulations
CMSA	Consolidated Metropolitan Statistical Area
CO	Carbon Monoxide
CR	Critical Review

D

DC	District of Columbia
----	----------------------

E

EPA	Environmental Protection Agency
-----	---------------------------------

F

FIPS	Federal Information Processing Standards
FRM	Federal Reference Method
FTP	File Transfer Protocol

G

GPS	Global Positioning System
-----	---------------------------

H

HQ	Headquarters
----	--------------

I

ID	Identity, Identifier
----	----------------------

J

¹Note: Transaction Types (AA, AB, AC, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, RA, RC, RD, RP, RS) are arbitrary codes, not acronyms.

K**L**

LC Local Conditions
LDP Locational Data Policy

M

MDL Method Detectable Limit
MP Monitor Protocol
MSA Metropolitan Statistical Area
MSL Mean Sea Level

N

NAAQS National Ambient Air Quality Standards
NAD North Atlantic Datum
NAMS National Air Monitoring System
NO₂ Nitrogen Dioxide

O

O₃ Ozone
OAQPS Office of Air Quality Planning and Standards

P

PAMS Photochemical Assessment Monitoring System
Pb Lead (Latin: Plumbum)
PDF Portable Document Format
PM Particulate Matter (usually PM-2.5 or PM-10)
POC Parameter Occurrence Code
PPB Parts per Billion
PPHM Parts per Hundred Million
PPM Parts per Million

Q**R**

RCF Required Collection Frequency

S

SLAMS State and Local Air Monitoring System
SO₂ Sulfur Dioxide

T

TTN Technology Transfer Network

TSP	Total Suspended Particulate
U	
UA	Upper Air (meteorological site)
US	United States
USC	United States Code
USGS	United States Geological Survey
UTM	Universal Transverse Mercator
V	
W	
WGS	World Geodetic Survey
X	
Y	
Z	
ZIP Code	Zone Improvement Plan

APPENDIX C

ACTION TYPES

Action Type
APPROVED
DISCONT
REDESIG

APPENDIX D

AGENCY TYPES

Agency Type	Agency Type Desc
A	EPA HQ ATM
B	EPA HQ MET
C	EPA HQ EFFECTS
D	EPA HQ ATM RES
E	EPA HQ ABATE
F	STATE AGENCY
G	COUNTY AGENCY
H	CITY AGENCY
I	DISTRICT AGENCY
J	PRIVATE
K	INSTITUTION
L	MILITARY
M	INTERNATIONAL AGENCY
N	FED NONMILITARY
P	EPA REGION
T	TRIBAL
Z	OTHER

APPENDIX E

AIR QUALITY CONTROL REGIONS

<u>Aqcr Code</u>	<u>Aqcr Desc</u>	<u>Aqcr Population</u>	<u>Aqcr Area</u>
001	ALABAMA AND TOMBIGBEE RIVERS	208692	8691
002	COLUMBUS-PHENIX CITY	792096	11237
003	EAST ALABAMA	451021	6228
004	METROPOLITAN BIRMINGHAM	1168098	11000
005	MOBILE-PENSACOLA-PANAMA CITY-SOUTHERN MISSISSIPPI	2512539	33841
006	SOUTHEAST ALABAMA	262147	4838
007	TENNESSEE RIVER VALLEY-CUMBERLAND MOUNTAINS	1143626	15918
008	COOK INLET	217529	590391
009	NORTHERN ALASKA	83099	377579
010	SOUTH CENTRAL ALASKA	83710	967970
011	SOUTHEASTERN ALASKA	53794	771173
012	ARIZONA-NEW MEXICO-SOUTHERN BORDER	167792	23127
013	CLARK-MOHAVE	609506	31092
014	FOUR CORNERS	645599	113798
015	PHOENIX-TUCSON	2189162	29858
016	CENTRAL ARKANSAS	868919	13487
017	METROPOLITAN FORT SMITH	431379	6553
018	METROPOLITAN MEMPHIS	880542	1839
019	MONROE-EL DORADO	490397	12915
020	NORTHEAST ARKANSAS	514856	13283
021	NORTHWEST ARKANSAS	266128	12846
022	SHREVEPORT-TEXARKANA-TYLER	1568288	31569
023	GREAT BASIN VALLEY	27569	13880
024	METROPOLITAN LOS ANGELES	11201922	36747
025	NORTH CENTRAL COAST	503590	5161
026	NORTH COAST	249510	18821
027	NORTHEAST PLATEAU	70049	18715
028	SACRAMENTO VALLEY	1598583	21823
029	SAN DIEGO	1859655	4262
030	SAN FRANCISCO BAY AREA	5179784	6995
031	SAN JOAQUIN VALLEY	2082850	32769
032	SOUTH CENTRAL COAST	283273	5922
033	SOUTHEAST DESERT	611117	48019
034	COMANCHE	73190	17926
035	GRAND MESA	198341	19071

<u>Aqcr Code</u>	<u>Aqcr Desc</u>	<u>Aqcr Population</u>	<u>Aqcr Area</u>
036	METROPOLITAN DENVER	1628210	5046
037	PAWNEE	337729	15842
038	SAN ISABEL	522361	17200
039	SAN LUIS	37914	8180
040	YAMPA	42130	13812
041	EASTERN CONNECTICUT	574561	1745
042	HARTFORD-NEW HAVEN-SPRINGFIELD	3372067	3534
043	NEW JERSEY-NEW YORK-CONNECTICUT	16525701	4976
044	NORTHWESTERN CONNECTICUT	122546	871
045	METROPOLITAN PHILADELPHIA	5487472	4585
046	SOUTHERN DELAWARE	196202	1544
047	NATIONAL CAPITAL	2956793	2353
048	CENTRAL FLORIDA	1336646	5559
049	JACKSONVILLE-BRUNSWICK	1673617	24171
050	SOUTHEAST FLORIDA	3515388	8742
051	SOUTHWEST FLORIDA	643104	7712
052	WEST CENTRAL FLORIDA	2201939	7956
053	AUGUSTA-AIKEN	599181	9147
054	CENTRAL GEORGIA	570219	9852
055	CHATTANOOGA	817606	5991
056	METROPOLITAN ATLANTA	2126658	5903
057	NORTHEAST GEORGIA	511731	6656
058	SAVANNAH-BEAUFORT	467979	6335
059	SOUTHWEST GEORGIA	523383	10126
060	HAWAII	964547	6401
061	EASTERN IDAHO	255147	18920
062	EASTERN WASHINGTON-NORTHERN IDAHO	625936	19591
063	IDAHO	282842	55556
064	METROPOLITAN BOISE	256792	1621
065	BURLINGTON-KEOKUK	672360	7181
066	EAST CENTRAL ILLINOIS	667277	10084
067	METROPOLITAN CHICAGO	7917109	6087
068	METROPOLITAN DUBUQUE	212602	3788
069	METROPOLITAN QUAD CITIES	597606	4942
070	METROPOLITAN ST. LOUIS	2423778	6541
071	NORTH CENTRAL ILLINOIS	215428	3586
072	PADUCAH-CAIRO	453172	8101
073	ROCKFORD-JANESVILLE-BELOIT	589432	3485
074	SOUTHEAST ILLINOIS	507297	9392
075	WEST CENTRAL ILLINOIS	674551	9456
076	EAST CENTRAL INDIANA	547057	3087

<u>Aqcr Code</u>	<u>Aqcr Desc</u>	<u>Aqcr Population</u>	<u>Aqcr Area</u>
077	EVANSVILLE-OWENSBORO-HENDERSON	554017	5704
078	LOUISVILLE	834608	908
079	METROPOLITAN CINCINNATI	1712725	3816
080	METROPOLITAN INDIANAPOLIS	1166575	3080
081	NORTHEAST INDIANA	530459	3579
082	SOUTH BEND-ELKHART-BENTON HARBOR	873878	4198
083	SOUTHERN INDIANA	621479	8696
084	WABASH VALLEY	851203	10271
085	METROPOLITAN OMAHA-COUNCIL BLUFFS	569614	1537
086	METROPOLITAN SIOUX CITY	183951	3207
087	METROPOLITAN SIOUX FALLS	151972	3164
088	NORTHEAST IOWA	507462	7195
089	NORTH CENTRAL IOWA	297419	8445
090	NORTHWEST IOWA	171554	6184
091	SOUTHEAST IOWA	242020	5244
092	SOUTH CENTRAL IOWA	709758	10107
093	SOUTHWEST IOWA	233408	9858
094	METROPOLITAN KANSAS CITY	1469803	4211
095	NORTHEAST KANSAS	393673	8709
096	NORTH CENTRAL KANSAS	276133	11670
097	NORTHWEST KANSAS	157785	19818
098	SOUTHEAST KANSAS	274660	10423
099	SOUTH CENTRAL KANSAS	602705	9972
100	SOUTHWEST KANSAS	161867	20378
101	APPALACHIAN	543753	7800
102	BLUEGRASS	547199	4316
103	HUNTINGTON-ASHLAND-PORTSMOUTH-IRONTON	676351	8154
104	NORTH CENTRAL KENTUCKY	337057	4869
105	SOUTH CENTRAL KENTUCKY	388090	7644
106	SOUTHERN LOUISIANA-SOUTHEAST TEXAS	3921588	39611
107	ANDROSCOGGIN VALLEY	453200	7424
108	AROOSTOOK	91331	4033
109	DOWN EAST	231393	7610
110	METROPOLITAN PORTLAND	433218	2346
111	NORTHWEST MAINE	367441	11397
112	CENTRAL MARYLAND	114792	665
113	CUMBERLAND-KEYSER	257576	2354
114	EASTERN SHORE	296620	3393
115	METROPOLITAN BALTIMORE	2174023	2261
116	SOUTHERN MARYLAND	167284	1049
117	BERKSHIRE	145110	929

<u>Aqcr Code</u>	<u>Aqcr Desc</u>	<u>Aqcr Population</u>	<u>Aqcr Area</u>
118	CENTRAL MASSACHUSETTS	559334	1514
119	METROPOLITAN BOSTON	2858273	1422
120	METROPOLITAN PROVIDENCE	1573662	2614
121	MERRIMACK VALLEY-SOUTHERN NEW HAMPSHIRE	1267944	5031
122	CENTRAL MICHIGAN	2448634	18052
123	METROPOLITAN DETROIT-PORT HURON	4183086	2675
124	METROPOLITAN TOLEDO	713772	1519
125	SOUTH CENTRAL MICHIGAN	1564288	7873
126	UPPER MICHIGAN	643822	25963
127	CENTRAL MINNESOTA	321716	6214
128	SOUTHEAST MINNESOTA-LA CROSSE	1203296	24064
129	DULUTH-SUPERIOR	513651	28569
130	METROPOLITAN FARGO-MOORHEAD	137574	2794
131	MINNEAPOLIS-ST. PAUL	1985873	2820
132	NORTHWEST MINNESOTA	444889	27455
133	SOUTHWEST MINNESOTA	304276	12011
134	MISSISSIPPI DELTA	322798	7235
135	NORTHEAST MISSISSIPPI	720427	17260
136	NORTHERN PIEDMONT	1114750	5458
137	NORTHERN MISSOURI	710677	24209
138	SOUTHEAST MISSOURI	513400	14486
139	SOUTHWEST MISSOURI	931788	24527
140	BILLINGS	160234	25631
141	GREAT FALLS	143510	24082
142	HELENA	185125	28430
143	MILES CITY	98122	47852
144	MISSOULA	199633	19339
145	LINCOLN-BEATRICE-FAIRBURY	234739	2857
146	NEBRASKA	835460	72845
147	NEVADA	77243	92503
148	NORTHWEST NEVADA	260163	9511
149	NEW HAMPSHIRE	93737	2651
150	NEW JERSEY	755289	1978
151	NORTHEAST PENNSYLVANIA-UPPER DELAWARE VALLEY	2180554	11345
152	ALBUQUERQUE-MID RIO GRANDE	500331	10539
153	EL PASO-LAS CRUCES-ALAMOGORDO	660806	41284
154	NORTHEASTERN PLAINS	58425	22739
155	PECOS-PERMIAN BASIN	225696	23927
156	SOUTHWESTERN MOUNTAINS-AUGUSTINE PLAINS	117654	24610
157	UPPER RIO GRANDE VALLEY	141697	10122
158	CENTRAL NEW YORK	1205051	8816

<u>Aqcr Code</u>	<u>Aqcr Desc</u>	<u>Aqcr Population</u>	<u>Aqcr Area</u>
159	CHAMPLAIN VALLEY	633480	13769
160	GENESEE-FINGER LAKES	1125717	4746
161	HUDSON VALLEY	1720239	7968
162	NIAGARA FRONTIER	1242826	1590
163	SOUTHERN TIER EAST	483858	5598
164	SOUTHERN TIER WEST	586008	6099
165	EASTERN MOUNTAIN	621804	5871
166	EASTERN PIEDMONT	1082284	8143
167	METROPOLITAN CHARLOTTE	1216719	6002
168	NORTHERN COASTAL PLAIN	315166	6299
169	SANDHILLS	685278	6954
170	SOUTHERN COASTAL PLAIN	671511	7721
171	WESTERN MOUNTAIN	395294	4903
172	NORTH DAKOTA	564470	67532
173	DAYTON	1035402	2715
174	GREATER METROPOLITAN CLEVELAND	3212885	3495
175	MANSFIELD-MARION	517691	4054
176	METROPOLITAN COLUMBUS	1274865	3994
177	NORTHWEST OHIO	633563	6531
178	NORTHWEST PENNSYLVANIA-YOUNGSTOWN	1645244	12306
179	PARKERSBURG-MARIETTA	319419	3578
180	SANDUSKY	299507	1979
181	STEUBENVILLE-WEIRTON-WHEELING	480254	2516
182	WILMINGTON-CHILlicothe-LOGAN	249833	3746
183	ZANESVILLE-CAMBRIDGE	301062	3515
184	CENTRAL OKLAHOMA	941247	7234
185	NORTH CENTRAL OKLAHOMA	193198	4448
186	NORTHEASTERN OKLAHOMA	942281	10749
187	NORTHWESTERN OKLAHOMA	136595	16434
188	SOUTHEASTERN OKLAHOMA	352758	14175
189	SOUTHWESTERN OKLAHOMA	302354	10425
190	CENTRAL OREGON	193220	25740
191	EASTERN OREGON	160698	41038
192	NORTHWEST OREGON	88917	2906
193	PORTLAND	2163767	19950
194	SOUTHWEST OREGON	366098	12731
195	CENTRAL PENNSYLVANIA	1084726	10410
196	SOUTH CENTRAL PENNSYLVANIA	1412388	5122
197	SOUTHWEST PENNSYLVANIA	2781748	6706
198	CAMDEN-SUMTER	173651	2461
199	CHARLESTON	430462	2618

<u>Aqcr Code</u>	<u>Aqcr Desc</u>	<u>Aqcr Population</u>	<u>Aqcr Area</u>
200	COLUMBIA	462030	2786
201	FLORENCE	307937	3519
202	GREENVILLE-SPARTANBURG	791895	3964
203	GREENWOOD	174163	2948
204	GEORGETOWN	182106	2901
205	BLACKHILLS-RAPID CITY	132228	12594
206	SOUTH DAKOTA	408526	60337
207	EASTERN TENNESSEE-SOUTHWESTERN VIRGINIA	1772573	16114
208	MIDDLE TENNESSEE	1276354	13179
209	WESTERN TENNESSEE	535351	9927
210	ABILENE-WICHITA FALLS	530790	28026
211	AMARILLO-LUBBOCK	735737	38617
212	AUSTIN-WACO	1348102	24650
213	BROWNSVILLE-LAREDO	648865	9715
214	CORPUS CHRISTI-VICTORIA	622379	16425
215	METROPOLITAN DALLAS-FORT WORTH	3257903	15360
216	METROPOLITAN HOUSTON-GALVESTON	3276239	12445
217	METROPOLITAN SAN ANTONIO	1374108	28959
218	MIDLAND-ODESSA-SAN ANGELO	473365	38828
219	UTAH	221709	38451
220	WASATCH FRONT	1154361	10579
221	VERMONT	268768	6285
222	CENTRAL VIRGINIA	524599	9502
223	HAMPTON ROADS	1161942	2392
224	NORTHEASTERN VIRGINIA	446760	8311
225	STATE CAPITAL	708173	4014
226	VALLEY OF VIRGINIA	492367	8131
227	NORTHERN WASHINGTON	141214	16151
228	OLYMPIA-NORTHWEST WASHINGTON	529337	12304
229	PUGET SOUND	2240288	6298
230	SOUTH CENTRAL WASHINGTON	405111	12748
231	ALLEGHENY	183992	6976
232	CENTRAL WEST VIRGINIA	164103	4917
233	EASTERN PANHANDLE	87788	760
234	KANAWHA VALLEY	327458	1918
235	NORTH CENTRAL WEST VIRGINIA	282206	2254
236	SOUTHERN WEST VIRGINIA	446655	4540
237	LAKE MICHIGAN	982945	10414
238	NORTH CENTRAL WISCONSIN	383485	9824
239	SOUTHEASTERN WISCONSIN	1764673	2623
240	SOUTHERN WISCONSIN	636154	6842

<u>Aqcr Code</u>	<u>Aqcr Desc</u>	<u>Aqcr Population</u>	<u>Aqcr Area</u>
241	CASPER	124917	18820
242	METROPOLITAN CHEYENNE	121726	11265
243	WYOMING	222914	67197
244	PUERTO RICO	3196520	3459
245	AMERICAN SAMOA	32297	77
246	GUAM	105979	209
247	U.S. VIRGIN ISLANDS	96569	132
250	COUNTRY OF MEXICO	34923129	760373
000	Not in a AQCR	1	1

APPENDIX F
AUDIT CLASSES

Audit Class
ANALYTICAL
FLOW

APPENDIX G

AUDIT TYPES

Audit Type

AUDIT AND CERT BY RO

AUDIT ONLY BY RO

AUDIT NOT BY RO

AUDIT BY REP ORG

APPENDIX H

CLASS ONE AREAS

<u>Class 1 Area Code</u>	<u>Class 1 Area Name</u>	<u>Class 1 Area Type</u>
ACADIA	Acadia Park	National Park
AGUTIB	Agua Tibia Wilderness	Wilderness Area
ALPLAK	Alpine Lakes Wilderness	Wilderness Area
ARCHES	Arches Park	National Park
BADLAN	Badlands Park	National Park
BALDYP	Baldy Peak Wilderness	Wilderness Area
BANDLR	Bandelier Monument	National Monument
BAPACH	Bosque del Apache Refuge	Wilderness Refuge
BIGBEN	Big Bend Park	National Park
BITLAK	Bitter Lake Refuge	Wilderness Refuge
BNDWAT	Boundary Waters Canoe Area	Wilderness Area
BRDWEL	Broadwell Bay Wilderness	Wilderness Area
BRETON	Breton Refuge	Wilderness Refuge
BRIDGR	Bridger Wilderness	Wilderness Area
BRIGAN	Brigantine Refuge	Wilderness Refuge
BRYCAN	Bryce Canyon Park	National Park
BVRHED	Beaverhead Deerlodge Forest	National Forest
CABMTN	Cabinet Mountains Wilderness	Wilderness Area
CANLAN	Canyonlands Park	National Park
CAPREF	Capitol Reef Park	National Park
CAPROM	Cape Romain Refuge	Wilderness Refuge
CARLBD	Carlsbad Caverns Park	National Park
CASTIL	Castillo de San Marcos Monument	National Monument
CHASHW	Chassahowitzka Refuge	Wilderness Refuge
CHIRIC	Chiricahua Monument	National Monument
COHUTA	Cohutta Wilderness	Wilderness Area
COLRAD	Colorado Forest	National Forest
CORONA	Coronado Forest	National Forest
CRATLK	Crater Lake Park	National Park
CRATMN	Craters of the Moon Monument	National Monument
CUCAMN	Cucamonga Wilderness	Wilderness Area
CURCAN	Curecanti Recreation Area	Recreation Area
DESLAT	Desolation Wilderness	Wilderness Area
DOLSOD	Dolly Sods Wilderness	Wilderness Area
DOMLND	Dome Land Wilderness	Wilderness Area
EGLCAP	Eagle Cap Wilderness	Wilderness Area

<u>Class 1 Area Code</u>	<u>Class 1 Area Name</u>	<u>Class 1 Area Type</u>
EGLNST	Eagles Nest Wilderness	Wilderness Area
ELKREF	National Elk Refuge	Wilderness Refuge
EMGRNT	Emigrant Wilderness	Wilderness Area
EVGLAD	Everglades Park	National Park
FLTOPS	Flat Tops Wilderness	Wilderness Area
GABREL	San Gabriel Wilderness	Wilderness Area
GARITA	La Garita Wilderness	Wilderness Area
GATMTN	Gates of the Mountains Wildernes	Wilderness Area
GCANYN	Grand Canyon Park	National Park
GEARHT	Gearhart Mountain Wilderness	Wilderness Area
GILA	Gila Wilderness	Wilderness Area
GLACER	Glacier Park	National Park
GLACPK	Glacier Peak Wilderness	Wilderness Area
GLFLST	Great Gulf Lost River Wilderness	Wilderness Area
GOATRK	Goat Rocks Wilderness	Wilderness Area
GORGON	San Gorgonio Wilderness	Wilderness Area
GSDUNE	Great Sand Dunes Monument	National Monument
GSMOKY	Great Smoky Mountains Park	National Park
GTETON	Grand Teton Park	National Park
GUADAL	Guadalupe Mountains Park	National Park
HELCAN	Hell's Canyon Recreation Area	Recreation Area
HERCUL	Hercules Glades Wilderness	Wilderness Area
HOOVER	Hoover Wilderness	Wilderness Area
HTSPRG	Hot Springs Park	National Park
IROYAL	Isle Royal Park	National Park
JACINT	San Jacinto Wilderness	Wilderness Area
JAMRIV	James River Face Wilderness	Wilderness Area
JARBRG	Jarbridge Wilderness	Wilderness Area
JNJUIR	John Muir Wilderness	Wilderness Area
JOSTRE	Joshua Tree Monument	National Monument
JUAN	San Juan Primitive Area	Primitive Area
KAIBAB	Kaibab Forest	National Forest
KAISER	Kaiser Wilderness	Wilderness Area
KALMIO	Kalmiopsis Wilderness	Wilderness Area
KILMER	Joyce Kilmer Forest	National Forest
KNGCAN	Kings Canyon Park	National Park
LASSEN	Lassen Volcanic Park	National Park
LAVABD	Lava Beds Monument	National Monument
LINVIL	Linville Gorge Wilderness	Wilderness Area
LOSTWD	Lostwood Refuge	Wilderness Refuge
LYEBRK	Lye Brook Wilderness	Wilderness Area
MAMOTH	Mammoth Cave Park	National Park

<u>Class 1 Area Code</u>	<u>Class 1 Area Name</u>	<u>Class 1 Area Type</u>
MARBEL	Maroon Bells Snowmass Wilderness	Wilderness Area
MARSHL	Bob Marshall Wilderness	Wilderness Area
MAZATZ	Mazatzal Wilderness	Wilderness Area
MEDLAK	Medicine Lake Refuge	Wilderness Refuge
MESVRD	Mesa Verde Park	National Park
MINGO	Mingo Refuge	Wilderness Refuge
MINRET	Minaret Wilderness	Wilderness Area
MOKLUM	Mokelumne Wilderness	Wilderness Area
MOOSHN	Moosehorn Refuge (North)	Wilderness Refuge
MOOSHS	Moosehorn Refuge (South)	Wilderness Refuge
MRBLMT	Marble Mountain Wilderness	Wilderness Area
MSNMTN	Mission Mountain Wilderness	Wilderness Area
MTADAM	Mt. Adams Wilderness	Wilderness Area
MTHOOD	Mt. Hood Wilderness	Wilderness Area
MTJEFF	Mt. Jefferson Wilderness	Wilderness Area
MTNLAK	Mountain Lakes Wilderness	Wilderness Area
MTRAIN	Mt. Rainier Park	National Park
MTWASH	Mt. Washington Wilderness	Wilderness Area
MTZION	Mt. Zion Park	National Park
MTZIRK	Mt. Zirkel Wilderness	Wilderness Area
NABSAR	North Absaroka Wilderness	Wilderness Area
NORCAS	North Cascades Park	National Park
OKEFEN	Okefenokee Swamp	Wilderness Area
OLYMPI	Olympic Park	National Park
OTTERC	Otter Creek Wilderness	Wilderness Area
PAYSAY	Paysayten Wilderness	Wilderness Area
PECOS	Pecos Wilderness	Wilderness Area
PEDRO	San Pedro Wilderness	Wilderness Area
PETFOR	Petrified Forest Park	National Park
PINACL	Pinnacles Monument	National Monument
PRESID	Presidential Range Wilderness	Wilderness Area
PTREYS	Pt. Reyes Seashore	National Seashore
RAFAEL	San Rafael Wilderness	Wilderness Area
REDWOD	Redwood Park	National Park
RKYMTN	Rocky Mountain Park	National Park
RNORET	River of No Return Wilderness	Wilderness Area
RRLAKE	Red Rock Lakes Refuge	Wilderness Refuge
RUCKER	Rucker Canyon Recreation Area	Recreation Area
SABSAR	South Absaroka Wilderness	Wilderness Area
SAWTOT	Sawtooth Recreation Area	Recreation Area
SCAPGT	Scapegoat Wilderness	Wilderness Area
SELWAY	Selway Bitterroot Wilderness	Wilderness Area

<u>Class 1 Area Code</u>	<u>Class 1 Area Name</u>	<u>Class 1 Area Type</u>
SENEY	Seney Refuge	Wilderness Refuge
SEQUOA	Sequoia Park	National Park
SGUARR	Saguaro Monument (Rincon Mt.)	National Monument
SGUART	Saguaro Monument (Tuscon Mt.)	National Monument
SHENAN	Shenandoah Park	National Park
SHINRK	Shining Rock Wilderness	Wilderness Area
SIERAN	Sierra Ancha Wilderness	Wilderness Area
SIPSEY	Sipsey Wilderness	Wilderness Area
STMARK	St. Marks Refuge	Wilderness Refuge
STRAMT	Strawberry Mtn. Wilderness	Wilderness Area
SUPERS	Superstition Wilderness	Wilderness Area
SWANQT	Swanquarter Refuge	Wilderness Refuge
SWARNR	South Warner Wilderness	Wilderness Area
TETON	Teton Wilderness	Wilderness Area
THLAKE	Thousand Lakes Wilderness	Wilderness Area
THREES	Three Sisters Wilderness	Wilderness Area
TROSVE	T. Roosevelt Park (Elkhorn)	National Park
TROSVN	T. Roosevelt Park (North)	National Park
TROSVS	T. Roosevelt Park (South)	National Park
TUZIGT	Tuzigoot Monument	Monument
UBUFLO	Upper Buffalo Wilderness	Wilderness Area
ULBEND	U.L. Bend Refuge	Wilderness Refuge
VNTANA	Ventana Wilderness	Wilderness Area
VOYGER	Voyageurs Park	National Park
WHLRPK	Wheeler Peak Wilderness	Wilderness Area
WHTMTN	White Mountain Wilderness	Wilderness Area
WICHMT	Wichita Mountain Refuge	Wilderness Refuge
WNDCAV	Wind Cave Park	National Park
WOLFIS	Wolf Island Wilderness-Refuge	Wilderness Area
WSTELK	West Elk Wilderness	Wilderness Area
YELSTN	Yellowstone Park	National Park
YOLBOL	Yolla Bolly Middle Eel Wildernes	Wilderness Area
YOSEMT	Yosemite Park	National Park

APPENDIX I

COLLECTION FREQUENCIES

Coll Freq Code	Coll Freq Desc	Daily Sample Num	Daily Interval
A	DAILY: 24 - 1 HR SAMPLES - PAMS	24	1
B	DAILY: 8 - 3 HR SAMPLES - PAMS	8	1
C	DAILY: 1 - 3 HR SAMPLE - PAMS	1	1
D	DAILY: 1 - 24 HR SAMPLE - PAMS	1	1
E	DAILY: 4 - 6 HR SAMPLES - PAMS	4	1
F	DAILY: 4 - 3 HR SAMPLES - PAMS	4	1
G	EVERY 3RD DAY:24-1 HR - PAMS	24	3
H	EVERY 3RD DAY:8-3 HOUR - PAMS	8	3
I	EVERY 3RD DAY:1-3 HR - PAMS	1	3
J	EVERY 3RD DAY:1-24 HR - PAMS	1	3
K	EVERY 3RD DAY:4-6 HR - PAMS	4	3
L	EVERY 3RD DAY:4-3 HR - PAMS	4	3
M	EVERY 6TH DAY:24-1 HR - PAMS	24	6
N	EVERY 6TH DAY:8-3 HR - PAMS	8	6
O	EVERY 6TH DAY:1-3 HR - PAMS	1	6
P	EVERY 6TH DAY:1-24 HR - PAMS	1	6
Q	EVERY 6TH DAY:4-3 HR - PAMS	4	6
S	SEASONAL		
T	5 OUT OF 7 DAYS (FOR PSI)		
1	EVERY DAY		1
2	EVERY OTHER DAY		2
3	EVERY 3RD DAY		3
4	EVERY 4TH DAY		4
5	EVERY 5TH DAY		5
6	EVERY 6TH DAY		6
7	EVERY 12TH DAY		12
8	STRATIFIED RANDOM		
9	RANDOM		
R	EPISODIC SAMPLING		
10	EVERY 24TH DAY		

APPENDIX J

CMSAS

<u>Cmsa Code</u>	<u>Cmsa Name</u>	<u>Cmsa Population</u>
1122	Boston-Worcester-Lawrence,MA-NH-ME-CT	5819100
1602	Chicago-Gary-Kenosha,IL-IN-WI	9157540
1642	Cincinnati-Hamilton,OH-KY-IN	1979202
1692	Cleveland-Akron,OH	2945831
1922	Dallas-Fort Worth,TX	5221801
2082	Denver-Boulder-Greeley,CO	2581506
2162	Detroit-Ann Arbor-Flint,MI	5456428
3362	Houston-Galveston-Brazoria,TX	4669571
4472	Los Angeles-Riverside-Orange County,CA	16373645
4992	Miami-Fort Lauderdale,FL	3876380
5082	Milwaukee-Racine,WI	1689572
5602	New York-N New Jersey-Long Island,NY-NJ-CT-PA	21199865
6162	Philadelphia-Wilmington-Atlantic City,PA-NJ-DE-MD	6188463
6442	Portland-Salem,OR-WA	2265223
6922	Sacramento-Yolo,CA	1796857
7362	San Francisco-Oakland-San Jose,CA	7039362
7442	San Juan-Caguas-Arecibo,PR	2450292
7602	Seattle-Tacoma-Bremerton,WA	3554760
8872	Washington-Baltimore,DC-MD-VA-WV	7608070

APPENDIX K

COMPASS SECTORS

Compass
Sector

E

ENE

ESE

N

NE

NNE

NNW

NW

S

SE

SSE

SSW

SW

W

WNW

WSW

APPENDIX L

COMPOSITE TYPES

<u>Comp Type</u>	Max Sample <u>Cnt</u>	Min <u>Period</u>	Max <u>Period</u>
QUARTERLY	92	1	4
SEASONAL	92	1	4
MONTHLY	31	1	12
WEEKLY	7	1	53

APPENDIX M

DATA INPUT FORMATS

Input transaction formats are available at the following URL:
<http://www.epa.gov/ttn/airs/airsaqs/manuals/manuals.htm> .

APPENDIX N

DOMINANT SOURCES

Dominant Source

POINT

AREA

MOBILE

APPENDIX O

EPA REGIONS

<u>Epa Region Code</u>	<u>Epa Region Name</u>	<u>Epa Region Population</u>	<u>Epa Region Area</u>	<u>EPA Region- Name</u>
01	BOSTON	28613365	63012	Region 01
02	NEW YORK CITY	28894193	58436	Region 02
03	PHILADELPHIA	26002091	120542	Region 03
04	ATLANTA	44707766	370079	Region 04
05	CHICAGO	46384041	323509	Region 05
06	DALLAS	28400026	548606	Region 06
07	KANSAS CITY	11949787	283335	Region 07
08	DENVER	7604701	573301	Region 08
09	SAN FRANCISCO	50894785	386411	Region 09
10	SEATTLE	9258681	815941	Region 10
25	NORTH AMERICA	277000000	9400000	Region 25

APPENDIX P

LAND USE TYPES

Land Use Type

RESIDENTIAL

COMMERCIAL

INDUSTRIAL

AGRICULTURAL

FOREST

DESERT

MOBILE

BLIGHTED AREAS

MILITARY RESERVATION

APPENDIX Q

LDP COLLECTION METHODS

<u>Ldp Coll Method Code</u>	<u>Ldp Coll Method Desc</u>
001	ADDRESS MATCHING-HOUSE NUMBER
002	ADDRESS MATCHING-BLOCK FACE
003	ADDRESS MATCHING-STREET CENTERLINE
004	ADDRESS MATCHING-NEAREST INTERSECTION
005	ADDRESS MATCHING-PRIMARY NAME
006	ADDRESS MATCHING-DIGITIZED
007	ADDRESS MATCHING-OTHER
008	CENSUS BLOCK-1990-CENTROID
009	CENSUS BLOCK/GROUP-1990-CENTROID
010	CENSUS BLOCK/TRACT-1990-CENTROID
011	CENSUS-OTHER
012	GPS CARRIER PHASE STATIC RELATIVE POSITION
013	GPS CARRIER PHASE KINEMATIC RELATIVE POSITION
014	GPS CODE (PSEUDO RANGE) DIFFERENTIAL
015	GPS CODE (PSEUDO RANGE) PRECISE POSITION
016	GPS CODE (PSEUDO RANGE) STANDARD POSITION (SA OFF)
017	GPS CODE (PSEUDO RANGE) STANDARD POSITION (SA ON)
018	INTERPOLATION-MAP
019	INTERPOLATION-PHOTO
020	INTERPOLATION-SATELLITE
021	INTERPOLATION-OTHER
022	LORAN C
023	PUBLIC-LAND-SURVEY-QUARTER SECTION
024	PUBLIC-LAND-SURVEY-FOOTING
025	CLASSICAL SURVEYING TECHNIQUES
026	ZIP CODE-CENTROID
027	UNKNOWN
028	GPS - UNSPECIFIED
029	GPS - WITH CANADIAN ACTIVE CONTROL SYSTEM
030	INTERPOLATION - DIGITAL MAP SRCE (TIGER)
031	INTERPOLATION - SPOT
032	INTERPOLATION-MSS
033	INTERPOLATION-TM
034	PUBLIC LAND SURVEY - EIGHTH SECTION
035	PUBLIC LAND SURVEY - SIXTEENTH SECTION
036	PUBLIC LAND SURVEY - FOOTING
037	ZIP+4 CENTROID

<u>Ldp Coll Method Code</u>	<u>Ldp Coll Method Desc</u>
038	ZIP+2 CENTROID

APPENDIX R

LDP HORIZONTAL DATA

Ldp Horiz Datum

NAD27

NAD83

WGS84

APPENDIX S

LOCAL PRIMARY STANDARDS

Local Pri Std

NBS SRM

EMSL REFERENCE GAS

COMMERCIAL CRM

PHOTOMETER (UNVERIFIED)

OTHER GAS STANDARDS

PHOTOMETER (VERIFIED)

LAMINAR FLOW ELEMENT

ROOTSMETER (CERTIFIED)

ROOTSMETER (NOT CERTIFIED)

CERTIFIED ORIFICE DEVICE

WET TEST METER

DRY TEST METER

BUBBLE FLOW METER

OTHER FLOW STANDARDS

REAGENT-GRADE CHEMICAL

OTHER CHEMICAL STANDARDS

BIOS 20K

BIOS 40K

CHINOOK FTS

APPENDIX T

LOCAL REGIONS

Stt State Code	Local Region Code	Local Region Name
06	01	NORTH COAST
06	02	SAN FRANCISCO BAY AREA
06	03	NORTH CENTRAL COAST
06	04	SOUTH CENTRAL COAST
06	05	SOUTH COAST
06	06	SAN DIEGO
06	07	NORTHEAST PLATEAU
06	08	SACRAMENTO VALLEY
06	09	SAN JOAQUIN VALLEY
06	10	GREAT BASIN VALLEYS
06	11	SOUTHEAST DESERT
06	12	MOUNTAIN COUNTIES
06	13	LAKE COUNTY
06	14	LAKE TAHOE
06	15	Mojave
06	16	Salton Sea
37	01	COASTAL
37	02	PIEDMONT
37	03	FOOTHILLS
37	04	MOUNTAINS
45	1	Appalachia I
45	2	Appalachia II
45	3	Appalachia III
45	4	Catawba
45	5	Central Midlands
45	6	Low Country
45	7	Edisto Savannah
45	8	Pee Dee
45	9	Trident
45	10	Upper Savannah
45	11	Wacammaw
45	12	Wateree

APPENDIX U

LOCATION SETTINGS

Location Setting

URBAN AND CENTER CITY

SUBURBAN

RURAL

APPENDIX V

MEASUREMENT SCALES

<u>Measurement Scale</u>	<u>Measurement Scale Definition</u>
MICROSCALE	0 M TO 100 M
MIDDLE SCALE	100 M TO 500 M
NEIGHBORHOOD	500 M TO 4KM
URBAN SCALE	4 KM TO 50 KM
REGIONAL SCALE	50 TO HUNDREDS KM

APPENDIX W

MET SITE TYPES

Met Site Type

ON-SITE MET EQUIP

ON-SITE UA MET

OTHER AIRS SITE

NWS

AIRPORT

OTHER

APPENDIX X

MONITOR OBJECTIVE TYPES

Monitor Obj Type

EXTREME DOWNWIND

GENERAL/BACKGROUND

HIGHEST CONCENTRATION

MAX OZONE CONCENTRATION

MAX PRECURSOR EMISSIONS IMPACT

OTHER

POPULATION EXPOSURE

REGIONAL TRANSPORT

SOURCE ORIENTED

UPWIND BACKGROUND

WELFARE RELATED IMPACTS

APPENDIX Y

MONITOR TYPES

Monitor Type

INDEX SITE

INDUSTRIAL

NAMS

NON-EPA FEDERAL

NON-REGULATORY

OTHER

PAMS

SLAMS

SPECIAL PURPOSE

TRENDS SPECIATION

TRIBAL MONITORS

UNOFFICIAL PAMS

APPENDIX Z

MSAS (METROPOLITAN STATISTICAL AREAS)

Msa Code	Msa Name	Msa Population	Cmsa Code
0000	Not in a MSA		1 0000
0040	Abilene, TX	126555	
0060	Aguadilla, PR	146424	
0080	Akron, OH	694960	1692
0120	Albany, GA	120822	
0160	Albany-Schenectady-Troy, NY	875583	
0200	Albuquerque, NM	712738	
0220	Alexandria, LA	126337	
0240	Allentown-Bethlehem-Easton, PA	637958	
0280	Altoona, PA	129144	
0320	Amarillo, TX	217858	
0380	Anchorage, AK	260283	
0440	Ann Arbor, MI	578736	2162
0450	Anniston, AL	112249	
0460	Appleton-Oshkosh-Neenah, WI	358365	
0470	Arecibo, PR	174300	7442
0480	Asheville, NC	225965	
0500	Athens, GA	153444	
0520	Atlanta, GA	4112198	
0560	Atlantic-Cape May, NJ	354878	6162
0600	Augusta-Aiken, GA	477441	
0640	Austin-San Marcos, TX	1249763	
0680	Bakersfield, CA	661645	
0720	Baltimore, MD	2552994	8872
0730	Bangor, ME	90864	
0740	Barnstable-Yarmouth, MA	162582	
0760	Baton Rouge, LA	602864	
0840	Beaumont-Port Arthur, TX	385090	
0860	Bellingham, WA	166814	
0870	Benton Harbor, MI	162453	
0875	Bergen-Passaic, NJ	1373167	5602
0880	Billings, MT	129352	
0920	Biloxi-Gulfport-Pascagoula, MS	363988	
0960	Binghamton, NY	252320	

Msa Code	Msa Name	Msa Population	Cmsa Code
1000	Birmingham,AL	921106	
1010	Bismarck,ND	94719	
1020	Bloomington,IN	120563	
1040	Bloomington-Normal,IL	150433	
1080	Boise City,ID	432345	
1120	Boston,MA-NH	3406829	1122
1125	Boulder-Longmont,CO	291288	2082
1145	Brazoria,TX	241767	3362
1150	Bremerton,WA	231969	7602
1160	Bridgeport,CT	459479	5602
1200	Brockton,MA	255459	1122
1240	Brownsville-Harlingen-San Benito,TX	335227	
1260	Bryan-College Station,TX	152415	
1280	Buffalo-Niagara Falls,NY	1170111	
1305	Burlington,VT	169391	
1310	Caguas,PR	308365	7442
1320	Canton-Massillon,OH	406934	
1350	Casper,WY	66533	
1360	Cedar Rapids,IA	191701	
1400	Champaign-Urbana,IL	179669	
1440	Charleston-North Charleston,SC	549033	
1480	Charleston,WV	251662	
1520	Charlotte-Gastonia-Rock Hill,NC-SC	1499293	
1540	Charlottesville,VA	159576	
1560	Chattanooga,TN-GA	465161	
1580	Cheyenne,WY	81607	
1600	Chicago,IL	8272768	1602
1620	Chico-Paradise, CA	203171	
1640	Cincinnati,OH-KY-IN	1646395	1642
1680	Cleveland-Lorain-Elyria,OH	2250871	1692
1740	Columbia,MO	135454	
1760	Columbia,SC	536691	
1840	Columbus,OH	1540157	
1900	Cumberland,MD	102008	
1930	Danbury,CT	217980	5602
1950	Danville,VA	110156	
2020	Daytona Beach,FL	493175	
2030	Decatur,AL	145867	
2080	Denver,CO	2109282	2082
2160	Detroit,MI	4441551	2162

Msa Code	Msa Name	Msa Population	Cmsa Code
2180	Dothan,AL	137916	
2190	Dover,DE	126697	
2281	Dutchess County,NY	280150	5602
2320	El Paso,TX	679622	
2335	Elmira,NY	91070	
2340	Enid,OK	57813	
2360	Erie,PA	280843	
2520	Fargo-Moorhead,ND-MN	174367	
2560	Fayetteville,NC	302963	
2620	Flagstaff,AZ-UT	122366	
2640	Flint,MI	436141	2162
2650	Florence,AL	142950	
2680	Fort Lauderdale,FL	1623018	4992
2720	Fort Smith,AR-OK	207290	
2750	For Walton Beach,FL	170498	
2840	Fresno,CA	922516	
2880	Gadsden,AL	103459	
2900	Gainesville,FL	217955	
2960	Gary,IN	631362	1602
2975	Glens Fall,NY	124345	
2995	Grand Junction, CO	116255	
3040	Great Falls,MT	80357	
3060	Greeley,CO	180936	2082
3150	Greenville,NC	133798	
3180	Hagerstown,MD	131923	8872
3240	Harrisburg-Lebanon-Carlisle,PA	629401	
3285	Hattiesburg,MS	111674	
3320	Honolulu,HI	876156	
3350	Houma,LA	194477	
3440	Huntsville,AL	342376	
3480	Indianapolis,IN	1607486	
3520	Jackson,MI	158422	
3560	Jackson,MS	440801	
3600	Jacksonville,FL	1100491	
3610	Jamestown,NY	139750	
3640	Jersey City,NJ	608975	5602
3680	Johnstown,PA	232621	
3710	Joplin,MO	157322	

Msa Code	Msa Name	Msa Population	Cmsa Code
3740	Kankakee,IL	103833	1602
3760	Kansas City,MO-KS	1776062	
3810	Killeen-Temple,TX	312952	
3850	Kokomo,IN	101541	
3880	Lafayette,LA	385647	
3960	Lake Charles,LA	183577	
4000	Lancaster,PA	470658	
4080	Laredo,TX	193117	
4100	Las Cruces,NM	174682	
4150	Lawrence,KS	99962	
4200	Lawton,OK	114996	
4240	Lewiston Auburn,ME	90830	
4320	Lima.OH	155084	
4360	Lincoln,NE	250291	
4480	Los Angeles-Long Beach,CA	9519338	4472
4560	Lowell,MA-NH	301686	1122
4640	Lynchburg,VA	214911	
4720	Madison,WI	426526	
4800	Mansfield,OH	175818	
4840	Mayaguez,PR	253347	
4920	Memphis,TN-AR-MS	1135614	
4940	Merced,CA	210554	
5000	Miami,FL	2253362	4992
5080	Milwaukee-Waukesha,WI	1500741	5082
5160	Mobile,AL	540258	
5170	Modesto,CA	446997	
5200	Monroe,LA	147250	
5240	Montgomery,AL	333055	
5330	Myrtle Beach,SC	196629	
5350	Nashua,NH	190949	1122
5380	Nassau-Suffolk,NY	2753913	5602
5480	New Haven-Meriden,CT	542149	5602
5560	New Orleans,LA	1337726	
5640	Newark,NJ	2032989	5602
5775	Oakland,CA	2392557	7362
5790	Ocala,FL	258916	
5800	Odessa-Midland,TX	237132	

Msa Code	Msa Name	Msa Population	Cmsa Code
5910	Olympia,WA	207355	7602
5920	Omaha,NE-IA	716998	
5960	Orlando,FL	1644561	
5990	Owensboro,KY	91545	
6080	Pensacola,FL	412153	
6120	Peoria-Pekin,IL	347387	
6200	Phoenix-Mesa,AZ	3251876	
6280	Pittsburgh,PA	2358695	
6320	Pittsfield,MA	84699	
6360	Ponce,PR	361094	
6450	Portsmouth-Rochester,NH-ME	240698	1122
6520	Provo-Orem,UT	368536	
6560	Pueblo,CO	141472	
6600	Racine,WI	188831	5082
6660	Rapid City,SD	88565	
6680	Reading,PA	373638	
6720	Reno,NV	339486	
6760	Richmond-Petersburg,VA	996512	
6800	Roanoke,Va	235932	
6820	Rochester,MN	124277	
6880	Rockford,IL	371236	
6920	Sacramento,CA	1628197	6922
6980	St. Cloud,MN	167392	
7040	St, Louis,MO-IL	2603607	
7080	Salem,OR	347214	6442
7200	San Angelo,TX	104010	
7240	San Antonio,TX	1592383	
7360	San Francisco,CA	1731183	7362
7440	SanJuan-Bayamon,PR	1967627	7442
7485	Santa Cruz-Watsonville,CA	255602	7362
7500	Santa Rosa,CA	458614	7362
7520	Savannah,GA	293000	
7610	Sharon,PA	120293	
7620	Sheboygan,WI	112646	
7640	Sherman-Denison,TX	110595	
7720	Sioux City,IA-NE	124130	
7800	South Bend,IN	265559	

Msa Code	Msa Name	Msa Population	Cmsa Code
7880	Springfield,IL	201437	
8000	Springfield,MA	591932	
8050	State College,PA	135758	
8120	Stockton-Lodi,CA	563598	
8160	Syracuse,NY	732117	
8240	Tallahassee,FL	284539	
8320	Terre Haute,IN	149192	
8400	Toledo,OH	618203	
8440	Topeka,KS	169871	
8480	Trenton,NJ	350761	5602
8560	Tusla,OK	803235	
8640	Tyler,TX	174706	
8680	Utica-Rome,NY	299896	
8735	Ventura,CA	753197	4472
8750	Victoria,TX	84088	
8800	Waco,TX	213517	
8840	Washington,DC-MD-VA-WV	4923153	8872
8920	Waterloo-Cedar Falls,IA	128012	
8940	Wausau,WI	125834	
8960	West Palm Beach-Boca Raton,FL	1131184	
9000	Wheeling,WV-OH	153172	
9040	Wichita,KS	545220	
9080	Wichita Falls,TX	140518	
9140	Williamsport,PA	120044	
9160	Wilmington-Newark,DE-MD	586216	6162
9200	Wilmington,NC	233450	
9240	Worcester,MA	511389	1122
9260	Yakima,WA	222581	
9270	Yolo,CA	168660	6922
9280	York,PA	381751	
9320	Youngstown-Warren,OH	594746	
9340	Yuba City,CA	139149	
9360	Yuma,AZ	160026	
1660	Clarksville-Hopkinsville,TN	207033	
1720	Colorado Springs,CO	516929	
1800	Columbus,GA-AL	274624	
1880	Corpus Christi,TX	380783	

Msa Code	Msa Name	Msa Population	Cmsa Code
1920	Dallas, TX	3519176	1922
1960	Davenport-Moline-Rock Island, IA-IL	359062	
2000	Dayton-Springfield, OH	950558	
2040	Decatur, IL	114706	
2120	Des Moines, IA	456022	
2200	Dubuque, IA	89143	
2240	Duluth-Superior, MN-WI	243815	
2290	Eau Claire, WI	148337	
2330	Elkhart-Goshen, IN	182791	
2400	Eugene-Springfield, OR	322959	
2440	Evansville-Henderson, IN-KY	296195	
2580	Fayetteville-Springdale-Rogers, AR	311121	
2600	Fitchburg-Leominster, MA	142284	1122
2655	Florence, SC	125761	
2670	Fort Collins-Loveland, CO	251494	
2700	Fort Myers-Cape Coral, FL	440888	
2710	Fort Pierce-Port ST. Lucie, FL	319426	
2760	Fort Wayne, IN	502141	
2800	Fort Worth-Arlington, TX	1702625	1922
2920	Galveston-Texas City, TX	250158	3362
2980	Goldsboro, NC	113329	
2985	Grand Forks, ND	97478	
3000	Grand Rapids-Muskegon-Holland, MI	1088514	
3080	Green Bay, WI	226778	
3120	Greensboro-Winston Salem-High Point, NC	1251509	
3160	Greenville-Spartanburg-Anderson, SC	962441	
3200	Hamilton-Middletown, OH	332807	1642
3280	Hartford, CN	1183110	
3290	Hickory-Morganton-Lenoir, NC	341851	
3360	Houston, TX	4177646	3362
3400	Huntington-Ashland, WV-KY-OH	315538	
3500	Iowa City, IA	111006	
3580	Jackson, TN	107377	
3605	Jacksonville, NC	150355	
3620	Janesville-Beloit, WI	152307	
3660	Johnson City-Kingsport-Bristol, TN-VA	480091	
3700	Jonesboro, AR	82148	

Msa Code	Msa Name	Msa Population	Cmsa Code
3720	Kalamazoo-Battle Creek,MI	452851	
3800	Kenosha,WI	149577	1602
3840	Knoxville,TN	687249	
3870	La Crosse,WI-MN	126838	
3920	Lafayette,IN	182821	
3980	Lakeland-Winter Haven,FL	483924	
4040	Lansing-East Lansing,MI	447728	
4120	Las Vegas,NV-AZ	1563282	
4160	Lawrence,MA-NH	396230	1122
4280	Lexington,KY	479198	
4400	Little Rock-North Little Rock,AR	583845	
4420	Longview-Marshall,TX	208780	
4520	Louisville,KY-IN	1025598	
4600	Lubbock,TX	242628	
4680	Macon,GA	322549	
4760	Manchester,NH	198378	1122
4880	McAllen-Edinburg-Mission,TX	569463	
4890	Medford-Ashland,OR	181269	
4900	Melbourne-Titusville-Palm Bay,FL	476230	
5015	Middlesex-Somerset-Hunterdon,NJ	1169641	5602
5120	Minneapolis-St. Paul,MN-WI	2968806	
5190	Monmouth-Ocean,NJ	1126217	5602
5280	Muncie,IN	118769	
5345	Naples,FL	251377	
5360	Nashville,TN	1231311	
5400	New Bedford,MA	175198	1122
5520	New London-Norwich,CT-RI	293566	
5600	New York,NY	9314235	5602
5660	Newburgh,NY-PA	387669	5602
5720	Norfolk-Virginia Beach-Newport News,VA_NC	1569541	
5880	Oklahoma City,OK	1083346	
5945	Orange County,CA	2846289	4472
6015	Panama City,FL	148217	
6020	Parkersburg-Marietta,WV-OH	151237	
6160	Philadelphia,PA-NJ	5100931	6162
6240	Pine Bluff,AR	84278	
6340	Pocatello,ID	75565	

Msa Code	Msa Name	Msa Population	Cmsa Code
6400	Portland,ME	243537	
6440	Portland-Vancouver,OR-WA	1918009	6442
6480	Providence-Fall River-Warwick,RI-MA	1188613	
6580	Punta Gorda,FL	141627	
6640	Raleigh-Durham-Chapel Hill,NC	1187941	
6690	Redding,CA	163256	
6740	Richland-Kennewick-Pasco,Wa	191822	
6780	Riverside-San Bernardino,CA	3254821	4472
6840	Rochester,NY	1098201	
6895	Rocky Mount,NC	143026	
6960	Saginaw-Bay City-Midland,MI	403070	
7000	St. Joseph,MO	102490	
7120	Salinas,CA	401762	
7160	Salt Lake City-Ogden,UT	1333914	
7320	San Diego,CA	2813833	
7400	San Jose,CA	1682585	7362
7460	San Luis Obispo-Atascadero-Paso Robles,CA	246681	
7480	Santa Barbara-Santa Maria-Lompoc,CA	399347	
7490	Santa Fe,NM	147635	
7510	Sarasota-Bradenton,FL	589959	
7560	Scranton-Wilkes Barre-Hazleton,PA	624776	
7600	Seattle-Bellevue-Everett,WA	2414616	7602
7680	Shreveport-Bossier City,LA	392302	
7760	Sioux Falls,SD	172412	
7840	Spokane,WA	417939	
7920	Springfield,MO	325721	
8040	Stamford-Norwalk,CT	353556	5602
8080	Steubenville-Weirton,OH-WV	132008	
8140	Sumter,SC	104646	
8200	Tacoma,WA	700820	7602
8280	Tampa-St. Petersburg-Clearwater,FL	2395997	
8360	Texarkana,TX-Texarkana,AR	129749	
8520	Tucson,AZ	843746	
8600	Tuscaloosa,AL	164875	
8720	Vallejo-Fairfield-Napa,CA	518821	7362
8760	Vineland-Millville-Bridgeton,NJ	146438	6162
8780	Visalia-Tulare-Porterville,CA	368021	

<u>Msa Code</u>	<u>Msa Name</u>	<u>Msa Population</u>	<u>Cmsa Code</u>
8880	Waterbury,CT	228984	5602
0580	Auburn-Opelika,AL	115092	
5140	Missoula,MT	95802	
1890	Corvallis,OR	78153	

APPENDIX AA
NULL DATA QUALIFIER CODES

See Qualifiers.

APPENDIX BB

PARAMETER POLLUTANTS AREA TYPES

<u>Pollutant Area Type</u>	<u>Parameter Code</u>
MONITORING AREA	81102
MONITORING AREA	85101
STATUS AREA (O3)	44201
STATUS AREA (SO2)	42401
STATUS AREA (CO)	42101
STATUS AREA (PB)	12128
STATUS AREA (PM10)	81102
STATUS AREA (PM10)	85101
STATUS AREA (PM2.5)	88101
STATUS AREA (NO2)	42602
MONITOR PLANNING AREA	88101

APPENDIX CC

PARAMETERS

This is a large table, and not included in this document. The table can be obtained at the following URL: <http://www.epa.gov/ttn/airs/airsaqs/manuals/codedescs.htm> .

APPENDIX DD

PROBE LOCATIONS

Probe Location

TOP OF BUILDING

GROUND LEVEL SUPPORT

SIDE OF BUILDING

POLE

OTHER

TOWER

APPENDIX EE

PROBE OBSTRUCTION TYPES

Probe Obstr Type

BUILDINGS

TREES/BRUSH

RIDGES

CLIFFS

OTHER

APPENDIX FF
PROJECT TYPES

<u>Project Type Code</u>	<u>Project Type</u>
01	POPULATION-ORIENTED SURVEILLANCE
02	SOURCE-ORIENTED AMBIENT SURVEILLANCE
03	BACKGROUND SURVEILLANCE
04	COMPLAINT INVESTIGATION
05	SPECIAL STUDIES
06	EPISODE MONITORING
08	GLOBAL SURVEILLANCE
09	DUPLICATE SAMPLING
10	CONTINUOUS AIR MONITORING PROGRAM
50	EXPOSURE STUDIES

APPENDIX GG

QA AUDIT TYPES

Qa Audit Type

SITE

NETWORK

PERFORMANCE

APPENDIX HH

QUALIFIER TYPES

<u>Qualifier Type Desc</u>	<u>Qualifier Type</u>
Quality Assurance Qualifier	QA
Exceptional Event Qualifier	EX
Comment Qualifier	CM
Null Data Qualifier	NULL

APPENDIX II

QUALIFIERS

Qualifier Code	Qualifier Desc	Qualifier Type
A	HIGH WINDS	EX
B	STRATOSPHERIC OZONE INTRUSION	EX
C	VOLCANIC ERUPTIONS	EX
D	SANDBLASTING	EX
E	FOREST FIRE	EX
F	STRUCTURAL FIRE	EX
G	HIGH POLLEN COUNT	EX
H	CHEMICAL SPILLS & INDUST. ACCIDENTS	EX
I	UNUSUAL TRAFFIC CONGESTION	EX
J	CONSTRUCTION/DEMOLITION	EX
K	AGRICULTURAL TILLING	EX
L	HIGHWAY CONSTRUCTION	EX
M	REROUTING OF TRAFFIC	EX
N	SANDING/SALTING OF STREETS	EX
O	INFREQUENT LARGE GATHERINGS	EX
P	ROOFING OPERATIONS	EX
Q	PRESCRIBED BURNING	EX
R	CLEAN UP AFTER A MAJOR DISASTER	EX
S	SEISMIC ACTIVITY	EX
U	SAHARA DUST	EX
AA	SAMPLE PRESSURE OUT OF LIMITS	NULL
AB	TECHNICIAN UNAVAILABLE	NULL
AC	CONSTRUCTION/REPAIRS IN AREA	NULL
AD	SHELTER STORM DAMAGE	NULL
AE	SHELTER TEMPERATURE OUTSIDE LIMITS	NULL
AF	SCHEDULED BUT NOT COLLECTED	NULL
AG	SAMPLE TIME OUT OF LIMITS	NULL
AH	SAMPLE FLOW RATE OUT OF LIMITS	NULL
AI	INSUFFICIENT DATA (CANNOT CALCULATE)	NULL
AJ	FILTER DAMAGE	NULL
AK	FILTER LEAK	NULL
AL	VOIDED BY OPERATOR	NULL
AM	MISCELLANEOUS VOID	NULL
AN	MACHINE MALFUNCTION	NULL
AO	BAD WEATHER	NULL

Qualifier		
<u>Code</u>	<u>Qualifier Desc</u>	<u>Qualifier Type</u>
AP	VANDALISM	NULL
AQ	COLLECTION ERROR	NULL
AR	LAB ERROR	NULL
AS	POOR QUALITY ASSURANCE RESULTS	NULL
AT	CALIBRATION	NULL
AU	MONITORING WAIVED	NULL
AV	POWER FAILURE (POWR)	NULL
AW	WILDLIFE DAMAGE	NULL
AX	PRECISION CHECK (PREC)	NULL
AY	Q C CONTROL POINTS (ZERO/SPAN)	NULL
AZ	Q C AUDIT (AUDT)	NULL
BA	MAINTENANCE/ROUTINE REPAIRS	NULL
BB	UNABLE TO REACH SITE	NULL
BC	MULTI-POINT CALIBRATION	NULL
BD	AUTO CALIBRATION	NULL
BE	BUILDING/SITE REPAIR	NULL
BF	PRECISION/ZERO/SPAN	NULL
BG	Missing ozone data not likely to exceed level of standard	NULL
BH	Interference/co-elution	NULL
BI	Lost or damaged in transit	NULL
BJ	Operator Error	NULL
1	Deviation from a CFR/Critical Criteria Requirement	QA
2	Operational Deviation	QA
3	Field Issue	QA
4	Lab Issue	QA
5	Outlier	QA
6	QAPP Issue	QA
7	Below Lowest Calibration Level	QA
9	Negative value detected - zero reported	QA
V	VALIDATED VALUE	QA
W	FLOW RATE AVERAGE OUT OF SPEC.	QA
X	FILTER TEMPERATURE DIFFERENCE OUT OF SPEC.	QA
Y	ELAPSED SAMPLE TIME OUT OF SPEC.	QA

APPENDIX JJ
REGULATIONS

<u>Regulation Code</u>	<u>Regulation Desc</u>	<u>Regulation Reference Id</u>
RM	Reference Method Used	40 CFR 58
SC	Siting Criteria Met	40 CFR 58
QC	Quality Assurance Criteria Met	
	First PM10 Exceedence	
FC	Correction	
ST	Short Term Satisfied	

APPENDIX KK

ROAD TYPES

Road Type

ARTERIAL

EXPRESSWAY

FREEWAY

MAJ ST OR HY

THRU ST OR HY

LOCAL ST OR HY

APPENDIX LL

ROLE TYPES

Role Type
MONITORS
SITES
AUDITS

APPENDIX MM

SAMPLE DURATIONS

Duration Code	Duration Desc	Duration Ind	Duration Length	Duration Unit
1	1 HOUR	O		1 HOURS
2	2 HOUR	O		2 HOURS
3	4 HOUR	O		4 HOURS
4	6 HOUR	O		6 HOURS
5	8 HOUR	O		8 HOURS
6	12 HOUR	O		12 HOURS
7	24 HOURS	O		1 DAYS
8	1 MONTH	O		1 MONTHS
9	3 MONTHS	O		3 MONTHS
A	1 WEEK	O		1 WEEKS
B	3 HOURS	O		3 HOURS
C	COMPOSITE DATA	O		1 DAYS
D	YEARLY	O		1 YEAR
G	ANNUAL GEOMETRIC MEAN	C		1 YEAR
H	5 MINUTES	O		5 MINUTES
I	10 MINUTES	O		10 MINUTES
M	ANNUAL ARITHMETIC MEAN	C		1 YEAR
Q	QUARTERLY ARITHMETIC MEAN	C		3 MONTHS
W	8-HR RUN AVG BEGIN HOUR	C		8 HOURS
X	24-HR BLK AVG	C		24 HOURS
Y	3-HR BLK AVG	C		3 HOURS
Z	8-HR RUN AVG END HOUR	C		8 HOURS

APPENDIX NN

SAMPLING METHODOLOGIES

This is a large table, and not included in this document. The table can be obtained at the following URL: <http://www.epa.gov/ttn/airs/airsaqs/manuals/codedescs.htm> .

APPENDIX OO

STATE TIME ZONES

<u>State Code</u>	<u>Time Zone Name</u>
01	CENTRAL
02	ALASKA
04	MOUNTAIN
05	CENTRAL
06	PACIFIC
08	MOUNTAIN
09	EASTERN
10	EASTERN
11	EASTERN
12	EASTERN
12	CENTRAL
13	EASTERN
15	HAWAII-ALEUTIAN
16	MOUNTAIN
16	PACIFIC
17	CENTRAL
18	EASTERN
18	CENTRAL
19	CENTRAL
20	CENTRAL
21	EASTERN
21	CENTRAL
22	CENTRAL
23	EASTERN
24	EASTERN
25	EASTERN
26	EASTERN
27	CENTRAL
28	CENTRAL
29	CENTRAL
31	CENTRAL
30	MOUNTAIN
31	MOUNTAIN
32	PACIFIC
33	EASTERN
34	EASTERN
35	MOUNTAIN

<u>State Code</u>	<u>Time Zone Name</u>
36	EASTERN
37	EASTERN
38	CENTRAL
38	MOUNTAIN
39	EASTERN
40	CENTRAL
41	PACIFIC
41	MOUNTAIN
42	EASTERN
44	EASTERN
45	EASTERN
46	CENTRAL
46	MOUNTAIN
47	CENTRAL
47	EASTERN
48	CENTRAL
48	MOUNTAIN
49	MOUNTAIN
50	EASTERN
51	EASTERN
53	PACIFIC
54	EASTERN
55	CENTRAL
56	MOUNTAIN
60	PACIFIC
66	GUAM
72	ATLANTIC
78	EASTERN
CC	EASTERN

APPENDIX PP

STATES

<u>State Code</u>	<u>State Abbr</u>	<u>State Name</u>	<u>Epa Region Code</u>	<u>State Area</u>	<u>State Population</u>	<u>State Min Latitude</u>	<u>State Max Latitude</u>	<u>State Min Longitude</u>	<u>State Max Longitude</u>
01	AL	ALABAMA	04	50767	4040587	30.194167	35.007778	-88.47278	-84.88889
02	AK	ALASKA	10	570833	550043	51.218611	71.395833	-180	-129.9878
04	AZ	ARIZONA	09	113508	3665228	31.331667	37.002778	-114.8128	-109.0442
05	AR	ARKANSAS	06	52078	2350725	33.004167	36.499167	-94.61694	-89.64194
06	CA	CALIFORNIA	09	156299	29760021	32.533611	42.0075	-124.4178	-114.1292
08	CO	COLORADO	08	103595	3294394	36.993056	41.0025	-109.0592	-102.0408
09	CT	CONNECTICUT	01	4872	3287116	40.990556	42.049444	-73.72806	-71.7875
10	DE	DELAWARE	03	1932	666168	38.451111	39.838889	-75.78861	-75.04944
11	DC	DISTRICT OF COLUMBIA	03	63	606900	38.804167	38.995556	-77.11944	-76.90917
12	FL	FLORIDA	04	54153	12937926	24.539722	31.000556	-87.63222	-80.03139
13	GA	GEORGIA	04	58056	6478216	30.355278	35.000278	-85.605	-80.845
15	HI	HAWAII	09	6425	1108229	18.914444	22.233056	-160.2403	-154.8092
16	ID	IDAHO	10	82413	1006749	41.993889	49.000556	-117.2414	-111.0428
17	IL	ILLINOIS	05	55645	11430602	36.969444	42.507778	-91.51278	-87.49528
18	IN	INDIANA	05	35932	5544159	37.771667	41.76	-88.09694	-84.78389
19	IA	IOWA	07	55965	2776755	40.375833	43.500556	-96.63722	-90.14
20	KS	KANSAS	07	81781	2477574	36.993056	40.002778	-102.0511	-94.58778
21	KY	KENTUCKY	04	39669	3685296	36.496944	39.147222	-89.57056	-81.96667
22	LA	LOUISIANA	06	44521	4219973	28.908611	33.018889	-94.0425	-88.81583
23	ME	MAINE	01	30995	1227928	43.058333	47.459167	-71.08389	-66.95583
24	MD	MARYLAND	03	9837	4781468	37.914444	39.7225	-79.48694	-75.04944
25	MA	MASSACHUSETTS	01	7824	6016425	41.235833	42.885833	-73.50861	-69.93056
26	MI	MICHIGAN	05	56954	9295297	41.695833	48.189167	-90.41722	-82.4125
27	MN	MINNESOTA	05	79548	4375099	43.498889	49.384444	-97.23722	-89.49667
28	MS	MISSISSIPPI	04	47233	2573216	30.173056	34.995	-91.655	-88.0975
29	MO	MISSOURI	07	68945	5117073	35.996111	40.613611	-95.77389	-89.09833
30	MT	MONTANA	08	145392	799065	44.358333	49.001111	-116.0481	-104.0389
31	NE	NEBRASKA	07	76644	1578385	39.999444	43.001667	-104.0558	-95.30167
32	NV	NEVADA	09	109893	1201833	35.001389	42.0025	-120.0042	-114.0403
33	NH	NEW HAMPSHIRE	01	8993	1109252	42.696667	45.305556	-72.55583	-70.70361
34	NJ	NEW JERSEY	02	7468	7730188	38.928333	41.356667	-75.56	-73.89361

<u>State Code</u>	<u>State Abbr</u>	<u>State Name</u>	<u>Epa Region Code</u>	<u>State Area</u>	<u>State Population</u>	<u>State Min Latitude</u>	<u>State Max Latitude</u>	<u>State Min Longitude</u>	<u>State Max Longitude</u>
35	NM	NEW MEXICO	06	121335	1515069	31.332222	37	-109.0486	-103.0011
36	NY	NEW YORK	02	47377	17990455	40.498333	45.009722	-79.76194	-71.85806
37	NC	NORTH CAROLINA	04	48843	6628637	33.838333	36.588056	-84.32167	-75.45167
38	ND	NORTH DAKOTA	08	69300	638800	45.935278	49.000556	-104.0172	-96.55472
39	OH	OHIO	05	41004	10847115	38.4025	41.978889	-84.81944	-80.51889
40	OK	OKLAHOMA	06	68655	3145585	33.615556	37.002222	-103.0011	-94.43139
41	OR	OREGON	10	96184	2842321	41.993889	46.298333	-124.585	-116.4622
42	PA	PENNSYLVANIA	03	44888	11881643	39.719722	42.269444	-80.51944	-74.69083
44	RI	RHODE ISLAND	01	1055	1003464	41.145278	42.018333	-71.89806	-71.12056
45	SC	SOUTH CAROLINA	04	30203	3486703	32.046667	35.214444	-83.35333	-78.55083
46	SD	SOUTH DAKOTA	08	75952	696004	42.479722	45.945	-104.0567	-96.43611
47	TN	TENNESSEE	04	41155	4877185	34.9825	36.677778	-90.30944	-81.64694
48	TX	TEXAS	06	262017	16986510	25.75	36.500278	-106.6447	-93.50778
49	UT	UTAH	08	82073	1722850	36.998056	42.001111	-114.0511	-109.0406
50	VT	VERMONT	01	9273	562758	42.726667	45.013889	-73.43139	-71.46556
51	VA	VIRGINIA	03	39703	6187358	36.540278	39.465278	-83.67528	-75.27639
53	WA	WASHINGTON	10	66511	4866692	45.543889	49.002222	-124.7622	-116.9142
54	WV	WEST VIRGINIA	03	24119	1793477	37.201111	40.638056	-82.64333	-77.71889
55	WI	WISCONSIN	05	54426	4891769	42.491667	47.079444	-92.88833	-86.80639
56	WY	WYOMING	08	96989	453588	40.996944	45.003056	-111.0542	-104.0514
66	GU	GUAM	09	209	105979	13.255	13.513889	144.75278	145.00667
72	PR	PUERTO RICO	02	3459	319652	17.883056	18.518056	-67.94472	-65.22306
78	VI	VIRGIN ISLANDS	02	132	96569	17.680278	18.406944	-65.02194	-64.73528
80	MX	MEXICO	25	760373	34923129	14.5625	32.757222	-118.2392	-86.79694
CC	CC	Canada	25	3849000					

APPENDIX QQ

STATUS CLASSES

<u>Class Code</u>	<u>Class Desc</u>
M	NOT IN A STATUS AREA
N	NON-ATTAINMENT AREA
A	ATTAINMENT AREA

APPENDIX RR

TIME ZONES

<u>Time Zone Name</u>	<u>Gmt Diff</u>
ATLANTIC	-4
EASTERN	-5
CENTRAL	-6
MOUNTAIN	-7
PACIFIC	-8
ALASKA	-9
HAWAII-ALEUTIAN	-10
GUAM	8

APPENDIX SS

TRAFFIC VOLUME SOURCES

<u>Traffic Volume Source</u>	<u>Tvs Id</u>
DOT	1

APPENDIX TT

TRANSACTION REQUIREMENTS

1. The Monitor can be designated as a NAMS or PAMS only by headquarters personnel. Specific data is required on these transactions before the Monitor can be so designated.
2. Information on these transactions must be reported before a SLAMS is considered for NAMS or PAMS designation.
3. Open Path Information is required only if the sampling technology is utilized.
4. Required only for criteria pollutants.
5. Required only for PAMS.
6. Obstruction information is required only when Unrestricted Air Flow Indicator on the Basic Monitor Information is N or W.
7. Not required, but useful for evaluating QA data reporting from collocated monitors.
8. Monitor Protocol is required only when the Method MDL is different from the system default.

APPENDIX UU

UNITS

<u>Unit</u>	<u>Unit Desc</u>	<u>Unit Type</u>	<u>Unit Abbr</u>
066	MILLISIEMENS/METER		
067	MICROEQUIVALENCE/LITER		
068	MILLISIEMENS/CM		
069	MICRO SIEMENS/CM.		
070	MG. F/100 SQ. CM./DAY		
071	UG. F/100 SQ. CM./DAY		
072	CUBIC FEET/MINUTE	FLOW	
073	LITERS/MINUTE	FLOW	
074	PG/CU METER(25 C)		
075	MICROMOLES/LITER		
076	LITERS		
077	MICROGRAMS	LEAD ACCURACY	
078	Parts per billion carbon		ppb C
079	WATTS/SQ. METER		
080	MG. S03/100 SQ. CM./DAY		
081	UG. S02/SQ. CM./DAY		
082	UG. S02/SQ. M./DAY		
083	CUBIC METERS/MINUTE	FLOW	
084	MICROGRAMS / GRAM		
085	PASQUILL-GIFFORD STABILITY CLASSES		
086	KILOMETERS (VISIBILITY)		
087	PPTM		
088	CCAL/SQ. CM./MIN		
089	MG./SQ. METER/HOUR		
090	TONS/SQ. MI./MONTH		
091	MG./SQ. CM./MONTH		
092	UG./CU. M./MONTH		
093	GRAMS/SQ. METER/MONTH		
094	POUNDS/SQ. MI./MONTH		
095	MG./SQ.METER/WEEK		
096	UG/SQ. METER/HOUR		
097	UG/SQ. CM./30 DAYS		
098	MG. S04/SQ. CM./30 DAYS		
099	MG./SQ. CM./30 DAYS		
100	PERCENT HOUR WITH PRECIP		
101	PARTS PER MILLION - CARBON		ppm C

<u>Unit</u>	<u>Unit Desc</u>	<u>Unit Type</u>	<u>Unit Abbr</u>
102	PARTS PER BILLION - MOLE		
103	PPTM-C		
104	PP100M - CARBON		
105	UG/CU Meter (LC)		ug/m3 LC
106	MINUTES		minutes
107	PERCENT		percent
110	MGRAMS AS NITROGEN		
111	MGRAMS AS CaCO3		
112	MILLIGRAMS/LITER AS CaCO3		
113	MILLIGRAMS/LITER AS N		
114	INCHES (H2O)		
130	PICOCURRIES/LITER		
058	METERS		
059	MILLIMETERS (MERCURY)		mm (HG)
060	KILOMETERS/HOUR		
061	PH UNITS		
062	MILLIGRAMS/LITER		mg/l
063	MICROGRAMS/LITER		
064	MICROGRAMS/MILLILITER		
065	CUBIC METER		m3
054	PARTICLES/SQ. MM./WEEK		
055	NBS COLOR DIF. UNITS		
056	MICRONS/YEAR		
057	CONDEN. NUCLEI/CU. CM.		
001	UG/CU METER (25 C)		ug/m3 SC
002	Ug/cu meter (0 C)		
003	NG/CU METER (25 C)		ng/m3 SC
004	NG/CU METER (0 C)		
005	MG/CU METER (25 C)		mg/m3 SC
006	MG/CU METER (0 C)		
007	PPM		ppm
008	PARTS PER BILLION		ppb
009	COHS/1,000 LINEAR FEET		
010	RUDS/10,000 LINEAR FEET		
011	METERS/SECOND		
012	MILES/HOUR		
013	KNOTS		Knots
014	DEGREES, COMPASS		Deg Comp
015	DEGREES, FAHRENHEIT		Deg F
016	MILLIBARS		
017	DEGREES, CENTIGRADE		Deg C
018	LANGLEYS		

<u>Unit</u>	<u>Unit Desc</u>	<u>Unit Type</u>	<u>Unit Abbr</u>
019	PERCENT REL. HUMIDITY		
020	MICRONS		
021	INCHES (RAINFALL)		Inch(Rain)
022	INCHES (MERCURY)		
023	MCAL./SQ. CM./MIN.		
024	MILES (VISIBILITY)		
025	LANGLEYS/MINUTE		
026	DEGREES-RANKINE		
027	BETA SCATTER		Beta Scat
028	DEGREES CENTIGRADE/100M		
029	MILLIMETERS (RAINFALL)		
030	PICOCURIES/CU. METER		
031	MICROCURIES/CU. METER		
032	PICOCURIES/SQ. METER		
033	MICROCURIES/SQ. METER		
034	PICOCURIES/CU. CM.		
035	PICOCURIES/GRAM		
036	CALORIES/SQ. CM./HOUR		
037	DEGREES-KELVIN		
038	10,000 FIBERS/CU METER		
039	TENTHS OF SKY COVER		
040	PARTS PER HUNDRED MILLION		
041	MG. S03/100 SQ. CM./MO.		
042	RUDS/1,000 LINEAR FT.		
044	UG/SQ. MILE/MONTH		
045	TONS/SQ. MI./DAY		
046	GRAMS/SQ. METER/DAY		
047	UG/SQ. METER/DAY		
048	1000 PARTICULES/SQ. IN.		
049	100 PARTICULES/SQ. IN.		
050	NO. THRESHOLD LEVELS		
051	% LOSS IN REFLEC./MONTH		
052	MICRONS/WEEK		
053	# DEFECTS/7.7 SQ. IN./MO.		
108	NG/Cu Meter (LC)		
109	MG/Cu Meter (LC)		
115	Nanograms/liter		
116	Temp Difference, Centigrade		
117	Temp Difference, Fahrenheit		

APPENDIX VV

URBANIZED AREAS

Uar Code	Uar Name	Uar Population
0000	NOT IN AN URBAN AREA	50000
0040	ABILENE, TX	107836
0060	AGUADILLA, PR	99936
0080	AKRON, OH	527863
0120	ALBANY, GA	87223
0160	ALBANY-SCHENECTADY-TROY, NY	509106
0200	ALBUQUERQUE, NM	497120
0220	ALEXANDRIA, LA	86001
0240	ALLENTOWN-BETHLEHEM-EASTON, PA-NJ	410436
0275	ALTON, IL	86236
0280	ALTOONA, PA	76551
0320	AMARILLO, TX	157934
0380	ANCHORAGE, AK	221883
0400	ANDERSON, IN	74037
0405	ANDERSON, SC	52492
0435	ANNAPOLIS, MD	78590
0440	ANN ARBOR, MI	222061
0450	ANNISTON, AL	68150
0457	ANTIOCH-PITTSBURG, CA	153768
0459	APPLETON-NEENAH, WI	160918
0470	ARECIBO, PR	88967
0480	ASHEVILLE, NC	110429
0500	ATHENS, GA	73282
0520	ATLANTA, GA	2157806
0560	ATLANTIC CITY, NJ	169993
0580	AUBURN-OPELIKA, AL	56510
0600	AUGUSTA, GA-SC	286538
0619	AURORA, IL	192043
0640	AUSTIN, TX	562008
0680	BAKERSFIELD, CA	302605
0720	BALTIMORE, MD	1889873
0730	BANGOR, ME	61402
0760	BATON ROUGE, LA	365943
0780	BATTLE CREEK, MI	77921
0800	BAY CITY, MI	74118

Uar Code	Uar Name	Uar Population
0839	BEAUMONT, TX	122841
0860	BELLINGHAM, WA	59317
0865	BELOIT, WI-IL	56076
0870	BENTON HARBOR, MI	57744
0880	BILLINGS, MT	88181
0920	BILOXI-GULFPORT, MS	179643
0960	BINGHAMTON, NY	158405
1000	BIRMINGHAM, AL	622074
1010	BISMARCK, ND	66476
1020	BLOOMINGTON, IN	71440
1040	BLOOMINGTON-NORMAL, IL	94186
1080	BOISE CITY, ID	167941
1120	BOSTON, MA	2775370
1125	BOULDER, CO	98910
1150	BREMERTON, WA	112977
1160	BRIDGEPORT-MILFORD, CT	413863
1170	BRISTOL, CT	92418
1180	BRISTOL, TN-BRISTOL, VA	52563
1200	BROCKTON, MA	160910
1239	BROWNSVILLE, TX	117676
1250	BRUNSWICK, GA	50066
1260	BRYAN-COLLEGE STATION, TX	107599
1282	BUFFALO-NIAGARA FALLS, NY	954332
1300	BURLINGTON, NC	74053
1305	BURLINGTON, VT	87088
1310	CAGUAS, PR	190922
1320	CANTON, OH	244576
1350	CASPER, WY	52248
1355	CAYEY, PR	63945
1360	CEDAR RAPIDS, IA	136190
1400	CHAMPAIGN-URBANA, IL	115524
1440	CHARLESTON, SC	393956
1480	CHARLESTON, WV	164418
1510	CHARLOTTE, NC	455597
1540	CHARLOTTESVILLE, VA	67553
1560	CHATTANOOGA, TN-GA	296955
1580	CHEYENNE, WY	61890
1601	CHICAGO, IL-NORTHWESTERN INDIANA	6792087
1620	CHICO, CA	71831
1640	CINCINNATI, OH-KY	1212675
1659	CLARKSVILLE, TN-KY	97581

Uar Code	Uar Name	Uar Population
1680	CLEVELAND, OH	1677492
1720	COLORADO SPRINGS, CO	352989
1740	COLUMBIA, MO	75854
1760	COLUMBIA, SC	328349
1800	COLUMBUS, GA-AL	220698
1840	COLUMBUS, OH	945237
1880	CORPUS CHRISTI, TX	270006
1897	CRYSTAL LAKE, IL	72498
1900	CUMBERLAND, MD-WV	54655
1922	DALLAS-FORT WORTH, TX	3198259
1930	DANBURY, CT-NY	116240
1950	DANVILLE, VA	54315
1960	DAVENPORT-ROCK ISLAND-MOLINE, IA-IL	264018
1979	DAVIS, CA	52711
2000	DAYTON, OH	613467
2020	DAYTONA BEACH, FL	221341
2030	DECATUR, AL	63541
2040	DECATUR, IL	96039
2071	DELTONA, FL	58053
2075	DENTON, TX	66445
2080	DENVER, CO	1517977
2120	DES MOINES, IA	293666
2160	DETROIT, MI	3697529
2180	DOTHAN, AL	58925
2190	DOVER, DE	50787
2200	DUBUQUE, IA-IL-WI	63705
2240	DULUTH, MN-WI	122971
2280	DURHAM, NC	205355
2290	EAU CLAIRE, WI	80293
2297	ELGIN, IL	123899
2300	ELKHART-GOSHEN, IN	98787
2310	ELMIRA, NY	66612
2320	EL PASO, TX-NM	571017
2360	ERIE, PA	177668
2400	EUGENE-SPRINGFIELD, OR	189192
2440	EVANSVILLE, IN-KY	183087
2467	FAIRFIELD, CA	99964
2480	FALL RIVER, MA-RI	144358
2520	FARGO-MOORHEAD, ND-MN	121336
2560	FAYETTEVILLE, NC	241763
2580	FAYETTEVILLE-SPRINGDALE, AR	74880

<u>Uar Code</u>	<u>Uar Name</u>	<u>Uar Population</u>
2600	FITCHBURG-LEOMINSTER, MA	82249
2640	FLINT, MI	326023
2650	FLORENCE, AL	69186
2655	FLORENCE, SC	54659
2669	FORT COLLINS, CO	105809
2680	FORT LAUDERDALE-HOLLYWOOD-POMPANO BEACH, FL	1238134
2700	FORT MYERS-CAPE CORAL, FL	220552
2710	FORT PIERCE, FL	126342
2720	FORT SMITH, AR-OK	94486
2750	FORT WALTON BEACH, FL	112522
2760	FORT WAYNE, IN	248424
2820	FREDERICK, MD	58393
2825	FREDERICKSBURG, VA	56718
2840	FRESNO, CA	453388
2880	GADSDEN, AL	71630
2900	GAINESVILLE, FL	126215
2919	GALVESTON, TX	58263
2970	GASTONIA, NC	113637
2975	GLENS FALLS, NY	56475
2980	GOLDSBORO, NC	60230
2985	GRAND FORKS, ND-MN	58103
2995	GRAND JUNCTION, CO	71938
3000	GRAND RAPIDS, MI	436336
3040	GREAT FALLS, MT	63506
3060	GREELEY, CO	71578
3080	GREEN BAY, WI	161931
3115	GREENSBORO, NC	194508
3150	GREENVILLE,NC	55884
3155	GREENVILLE, SC	248173
3180	HAGERSTOWN, MD-PA-WV	70206
3199	HAMILTON, OH	118315
3235	HARLINGEN, TX	79309
3239	HARRISBURG, PA	292904
3280	HARTFORD-MIDDLETOWN, CT	546198
3285	HATTIESBURG, MS	59757
3288	HEMET-SAN JACINTO, CA	90929
3289	HESPERIA-APPLE VALLEY-VICTORVILLE, CA	153176
3290	HICKORY, NC	69914
3300	HIGH POINT, NC	108686
3317	HOLLAND, MI	62418

<u>Uar Code</u>	<u>Uar Name</u>	<u>Uar Population</u>
3320	HONOLULU, HI	632603
3350	HOUMA, LA	65879
3360	HOUSTON, TX	2901851
3390	HUMACAO, PR	57144
3400	HUNTINGTON-ASHLAND, WV-KY-OH	169594
3440	HUNTSVILLE, AL	180315
3455	HYANNIS, MA	66713
3460	IDAHO FALLS, ID	56356
3480	INDIANAPOLIS, IN	914761
3487	INDIO-COACHELLA, CA	56038
3500	IOWA CITY, IA	71372
3510	ITHACA, NY	50132
3520	JACKSON, MI	78126
3560	JACKSON, MS	289285
3580	JACKSON, TN	53031
3600	JACKSONVILLE, FL	738413
3605	JACKSONVILLE, NC	101297
3619	JANESVILLE, WI	52995
3659	JOHNSON CITY, TN	82382
3680	JOHNSTOWN, PA	77841
3690	JOLIET, IL	170717
3710	JOPLIN, MO	60208
3717	KAILUA, HI	114506
3720	KALAMAZOO, MI	164430
3740	KANKAKEE, IL	59695
3750	KANNAPOLIS, NC	78177
3760	KANSAS CITY, MO-KS	1275317
3800	KENOSHA, WI	94292
3809	KILLEEN, TX	137876
3815	KINGSPORT, TN-VA	87403
3833	KISSIMMEE, FL	55419
3840	KNOXVILLE, TN	304466
3850	KOKOMO, IN	57146
3870	LA CROSSE, WI-MN	78928
3880	LAFAYETTE, LA	129592
3920	LAFAYETTE-WEST LAFAYETTE, IN	100103
3960	LAKE CHARLES, LA	119067
3979	LAKELAND, FL	147628

Uar Code	Uar Name	Uar Population
4000	LANCASTER, PA	193583
4010	LANCASTER-PALMDALE, CA	187190
4040	LANSING-EAST LANSING, MI	265095
4080	LAREDO, TX	123651
4100	LAS CRUCES, NM	81471
4120	LAS VEGAS, NV	697348
4150	LAWRENCE, KS	65755
4160	LAWRENCE-HAVERHILL, MA-NH	237362
4200	LAWTON, OK	92634
4240	LEWISTON-AUBURN, ME	71598
4246	LEWISVILLE, TX	79433
4280	LEXINGTON-FAYETTE, KY	220701
4320	LIMA, OH	68621
4360	LINCOLN, NE	192558
4400	LITTLE ROCK-NORTH LITTLE ROCK, AR	305353
4403	LODI, CA	55590
4405	LOGAN, UT	50401
4407	LOMPOC, CA	56591
4411	LONGMONT, CO	52464
4413	LONGVIEW, TX	76429
4415	LONGVIEW, WA-OR	57123
4440	LORAIN-ELYRIA, OH	224087
4480	LOS ANGELES, CA	11402946
4520	LOUISVILLE, KY-IN	754956
4560	LOWELL, MA-NH	181651
4600	LUBBOCK, TX	187906
4640	LYNCHBURG, VA	98138
4660	MCALLEN-EDINBURG-MISSION, TX	263192
4679	MACON, GA	129496
4720	MADISON, WI	244336
4760	MANCHESTER, NH	114918
4800	MANSFIELD, OH	76521
4840	MAYAGUEZ, PR	110904
4890	MEDFORD, OR	66974
4899	MELBOURNE-PALM BAY, FL	305978
4920	MEMPHIS, TN-AR-MS	825193
4940	MERCED, CA	64742
5000	MIAMI-HIALEAH, FL	1914660

<u>Uar Code</u>	<u>Uar Name</u>	<u>Uar Population</u>
5025	MIDDLETOWN, OH	98822
5040	MIDLAND, TX	91999
5080	MILWAUKEE, WI	1226293
5120	MINNEAPOLIS-ST. PAUL, MN	2079676
5140	MISSOULA, MT	57196
5160	MOBILE, AL	300912
5170	MODESTO, CA	230609
5187	MONESSEN, PA	65072
5200	MONROE, LA	110737
5240	MONTGOMERY, AL	210007
5280	MUNCIE, IN	88073
5320	MUSKEGON, MI	106252
5330	MYRTLE BEACH, SC	58384
5343	NAPA, CA	68049
5345	NAPLES, FL	94344
5350	NASHUA, NH	96791
5360	NASHVILLE, TN	573294
5395	NEWARK, OH	54063
5400	NEW BEDFORD, MA	139082
5440	NEW BRITAIN, CT	143064
5465	NEWBURGH, NY	71584
5480	NEW HAVEN-MERIDEN, CT	451486
5520	NEW LONDON-NORWICH, CT	156286
5560	NEW ORLEANS, LA	1040226
5570	NEWPORT, RI	53481
5601	NEW YORK, NY-NORTHEASTERN NEW JERSEY	16044012
5720	NORFOLK-VIRGINIA BEACH-NEWPORT NEWS, VA	1323098
5760	NORWALK, CT	108888
5790	OCALA, FL	68004
5800	ODESSA, TX	113672
5840	OGDEN, UT	259147
5880	OKLAHOMA CITY, OK	784425
5910	OLYMPIA, WA	95471
5920	OMAHA, NE-IA	544292
5960	ORLANDO, FL	887126
5973	OSHKOSH, WI	58935
5990	OWENSBORO, KY	60645
6000	OXNARD-VENTURA, CA	480482

<u>Uar Code</u>	<u>Uar Name</u>	<u>Uar Population</u>
6012	PALM SPRINGS, CA	129025
6015	PANAMA CITY, FL	103667
6020	PARKERSBURG, WV-OH	58683
6025	PASCAGOULA, MS	59386
6080	PENSACOLA, FL	253558
6120	PEORIA, IL	242353
6140	PETERSBURG, VA	103526
6160	PHILADELPHIA, PA-NJ	4222211
6200	PHOENIX, AZ	2006239
6240	PINE BLUFF, AR	61941
6282	PITTSBURGH, PA	1678745
6320	PITTSFIELD, MA	55047
6340	POCATELLO, ID	53903
6360	PONCE, PR	190079
6377	PORT ARTHUR, TX	109560
6390	PORT HURON, MI	62774
6400	PORTLAND, ME	120220
6442	PORTLAND-VANCOUVER, OR-WA	1172158
6450	PORTSMOUTH-DOVER-ROCHESTER, NH-ME	114960
6454	POTTSTOWN, PA	53371
6460	POUGHKEEPSIE, NY	148527
6480	PROVIDENCE-PAWTUCKET, RI-MA	846293
6520	PROVO-OREM, UT	220556
6560	PUEBLO, CO	106155
6580	PUNTA GORDA, FL	67033
6600	RACINE, WI	121788
6639	RALEIGH, NC	305925
6660	RAPID CITY, SD	61124
6680	READING, PA	186267
6690	REDDING, CA	78364
6720	RENO, NV	213747
6740	RICHLAND-KENNEWICK-PASCO, WA	116118
6759	RICHMOND, VA	589980
6780	RIVERSIDE-SAN BERNARDINO, CA	1170196
6800	ROANOKE, VA	178277
6820	ROCHESTER, MN	73560
6840	ROCHESTER, NY	619653
6880	ROCKFORD, IL	207826

<u>Uar Code</u>	<u>Uar Name</u>	<u>Uar Population</u>
6885	ROCK HILL, SC	58757
6895	ROCKY MOUNT, NC	50870
6900	ROME, GA	51589
6911	ROUND LAKE BEACH-MCHENRY, IL-WI	112693
6920	SACRAMENTO, CA	1097005
6959	SAGINAW, MI	140079
6980	ST. CLOUD, MN	74037
7000	ST. JOSEPH, MO-KS	75395
7040	ST. LOUIS, MO-IL	1946526
7080	SALEM, OR	157079
7119	SALINAS, CA	122225
7159	SALT LAKE CITY, UT	789447
7200	SAN ANGELO, TX	85408
7240	SAN ANTONIO, TX	1129154
7320	SAN DIEGO, CA	2348417
7360	SAN FRANCISCO-OAKLAND, CA	3629516
7400	SAN JOSE, CA	1221086
7440	SAN JUAN, PR	122800
7460	SAN LUIS OBISPO, CA	50305
7479	SANTA BARBARA, CA	182163
7485	SANTA CRUZ, CA	152355
7490	SANTA FE, NM	63023
7497	SANTA MARIA, CA	88989
7500	SANTA ROSA, CA	194560
7511	SARASOTA-BRADENTON, FL	444385
7520	SAVANNAH, GA	198630
7560	SCRANTON-WILKES-BARRE, PA	388225
7572	SEASIDE-MONTEREY, CA	133188
7600	SEATTLE, WA	1744086
7610	SHARON, PA-OH	52816
7620	SHEBOYGAN, WI	61012
7640	SHERMAN-DENISON, TX	55522
7680	SHREVEPORT, LA	256489
7702	SIMI VALLEY, CA	128043
7720	SIOUX CITY, IA-NE-SD	96211
7760	SIOUX FALLS, SD	100843
7767	SLIDELL, LA	54084
7800	SOUTH BEND-MISHAWAKA, IN-MI	237932

<u>Uar Code</u>	<u>Uar Name</u>	<u>Uar Population</u>
7820	SPARTANBURG, SC	104801
7840	SPOKANE, WA	279038
7880	SPRINGFIELD, IL	124524
7920	SPRINGFIELD, MO	159086
7960	SPRINGFIELD, OH	88649
8000	SPRINGFIELD, MA-CT	532747
8020	SPRING HILL, FL	52056
8040	STAMFORD, CT-NY	187200
8050	STATE COLLEGE, PA	61239
8080	STEUBENVILLE-WEIRTON, OH-WV-PA	69118
8120	STOCKTON, CA	262046
8130	STUART, FL	80069
8140	SUMTER, SC	57632
8160	SYRACUSE, NY	388918
8200	TACOMA, WA	497210
8240	TALLAHASSEE, FL	155884
8280	TAMPA-ST. PETERSBURG-CLEARWATER, FL	1708710
8300	TAUNTON, MA	58884
8312	TEMPLE, TX	58710
8320	TERRE HAUTE, IN	77019
8360	TEXARKANA, TX-TEXARKANA, AR	65086
8382	TEXAS CITY, TX	128211
8395	TITUSVILLE, FL	51549
8400	TOLEDO, OH-MI	489155
8440	TOPEKA, KS	132711
8480	TRENTON, NJ-PA	298602
8520	TUCSON, AZ	579235
8560	TULSA, OK	474668
8600	TUSCALOOSA, AL	106428
8640	TYLER, TX	79703
8680	UTICA-ROME, NY	158553
8694	VACAVILLE, CA	71535
8730	VEGA BAJA-MANATI, PR	112272
8740	VERO BEACH, FL	64707
8750	VICTORIA, TX	55122
8760	VINELAND-MILLVILLE, NJ	94236
8779	VISALIA, CA	83594
8800	WACO, TX	144372

<u>Uar Code</u>	<u>Uar Name</u>	<u>Uar Population</u>
8835	WARNER ROBINS, GA	60976
8840	WASHINGTON, DC-MD-VA	3363031
8880	WATERBURY, CT	175067
8920	WATERLOO-CEDAR FALLS, IA	108260
8929	WATSONVILLE, CA	51378
8940	WAUSAU, WI	57352
8960	WEST PALM BEACH-BOCA RATON-DELRAY BEACH, FL	794848
9000	WHEELING, WV-OH	84507
9040	WICHITA, KS	338789
9080	WICHITA FALLS, TX	97151
9140	WILLIAMSPORT, PA	57425
9160	WILMINGTON, DE-NJ-MD-PA	449616
9200	WILMINGTON, NC	101357
9220	WINSTON-SALEM, NC	185184
9227	WINTER HAVEN, FL	86427
9240	WORCESTER, MA-CT	315666
9260	YAKIMA, WA	88054
9280	YORK, PA	142675
9320	YOUNGSTOWN-WARREN, OH	361627
9340	YUBA CITY, CA	77167
9360	YUMA, AZ-CA	70955