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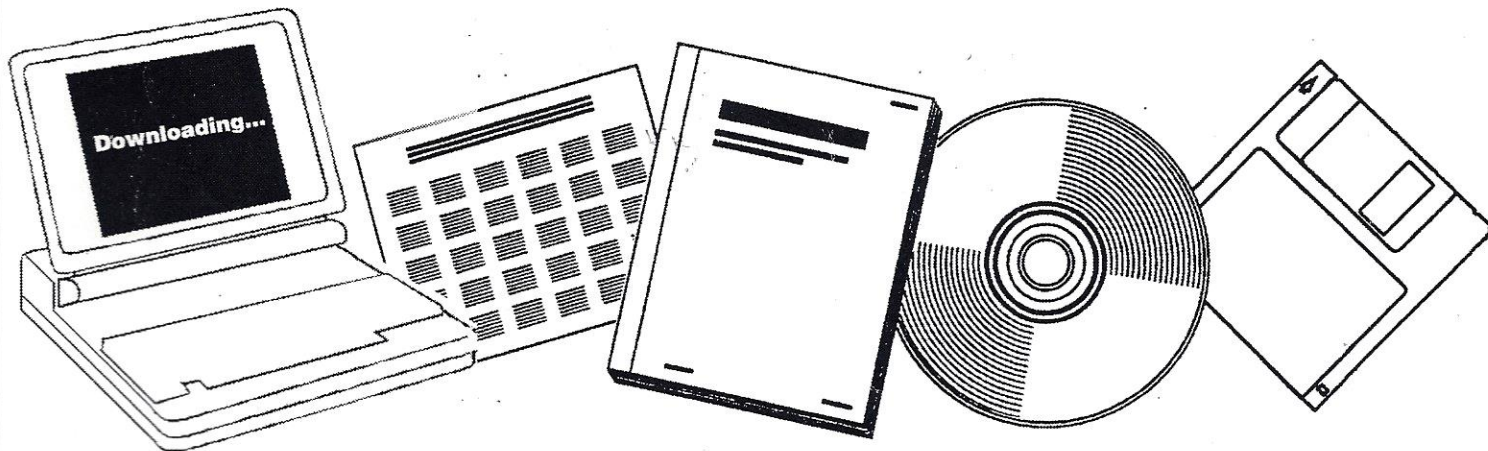
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**INHALABLE PARTICULATE NETWORK REPORT:
OPERATION AND DATA SUMMARY (MASS
CONCENTRATIONS ONLY). VOL. 1. APRIL
1979-DECEMBER 1982**

ENVIRONMENTAL MONITORING SYSTEMS LAB.
RESEARCH TRIANGLE PARK, NC

NOV 1984



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EPA-600/4-84-088a
November 1984

INHALABLE PARTICULATE NETWORK REPORT:
OPERATION AND DATA SUMMARY (MASS CONCENTRATIONS ONLY)

Vol. I

APRIL 1979 - DECEMBER 1982

by

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ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
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U. S. ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NORTH CAROLINA 27711

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16. ABSTRACT This report is intended to serve as an operations overview and data summary covering the operation of the 157 Inhalable Particulate (IP) Network sites within the United States. Volume I discusses the scope of the Network and instrumentation utilized in the Network. Data (mass only) are traced from measurement through processing and storage to routine reporting. Quality assurance practices are also given. Data summaries are provided. Volume II is a list of individual data upon which Volume I is based. Analyses, conclusions, and examples, either listed or indicated by reference, should provide the reader with both suggested uses and possible limitations of the data. Chemical analysis of the collected particulate (sulfate, nitrate, and selected metals) is part of IP Network objectives but those data will be the subject of a separate report.		
17. KEY WORDS AND DOCUMENT ANALYSIS		
2. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Inhalable Particulate Network PM ₁₀ , PM ₁₅ Particulate Data Particulate Monitoring		
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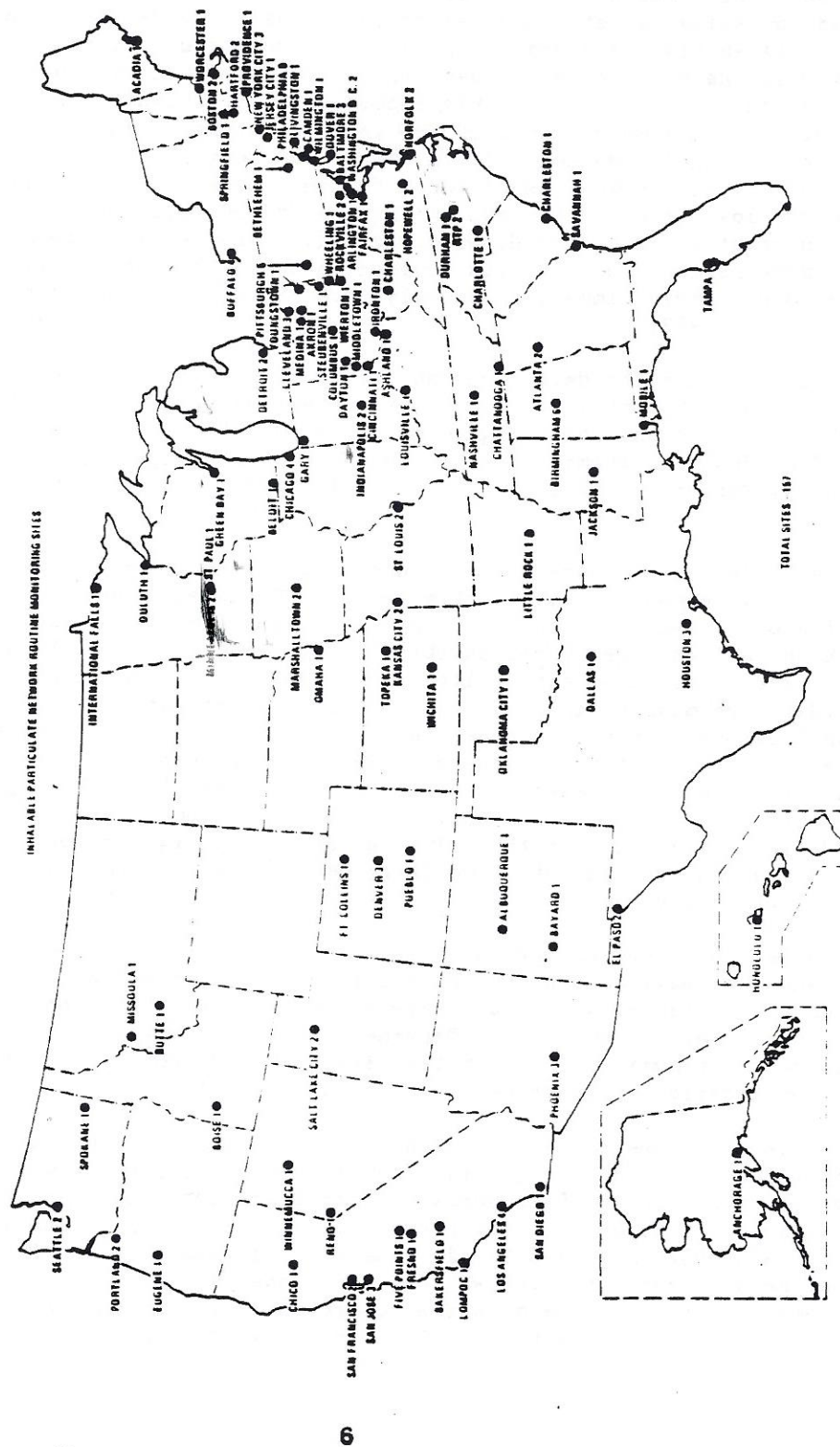


Figure 3. IP sites (PM₁₀ and PM₁₅) operated during 1979 - 1982.

APPENDIX C

ENVIRONMENTAL PROTECTION AGENCY
 INHALABLE PARTICULATE NETWORK
 NETWORK DATA SUMMARY

RATIO15=DICHOT15/HIVOL RATIO10=DICHOT10/HIVOL

----- SITE=010380003A07 NAME=SOUTH BIRMINGHAM -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	80	74.2151	36.0512	20.95	242.10	790801	810317
SSI	38	61.1068	17.4928	25.19	93.52	810323	811124
DICHOT15	0	.	.	.	.	.	.
FINE15	0	.	.	.	.	.	.
COARSE15	0	.	.	.	.	.	.
RATIO15	0	.	.	.	.	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

----- SITE=010380023A07 NAME=NORTH BIRMINGHAM (S 20TH) -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	178	109.613	63.4217	25.9200	368.600	790708	821231
SSI	146	84.313	43.0757	27.7200	238.200	800421	821231
DICHOT15	147	57.914	32.2247	13.3900	182.300	790708	821231
FINE15	147	28.675	13.5179	6.8900	73.900	790708	821231
COARSE15	147	29.236	22.6011	2.8600	125.100	790708	821231
RATIO15	136	0.557	0.1263	0.1554	0.848	.	.
DICHOT10	41	53.247	35.4951	15.7100	172.500	820324	821231
FINE10	41	30.410	17.2730	7.7800	79.800	820324	821231
COARSE10	41	22.838	20.3282	4.5300	100.000	820324	821231
RATIO10	40	0.515	0.1208	0.2854	0.939	.	.

----- SITE=010380023A57 NAME=NORTH BIRMINGHAM (COL) -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	40	116.739	61.7199	37.2900	276.000	810317	811218
SSI	38	86.909	43.7502	29.1200	205.200	810311	811124
DICHOT15	89	64.430	36.8960	18.4300	187.800	810323	821231
FINE15	89	28.989	14.1894	7.9300	71.500	810323	821231
COARSE15	89	35.442	27.3802	1.0000	147.200	810323	821231
RATIO15	33	0.632	0.0912	0.4987	0.879	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

ENVIRONMENTAL PROTECTION AGENCY
 INHALABLE PARTICULATE NETWORK
 NETWORK DATA SUMMARY
 RATIO15=DICHOT15/HIVOL RATIO10=DICHOT10/HIVOL

----- SITE=010380026A07 NAME=INGLENOOK -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	74	97.9834	53.1816	25.74	306.3	790726	810510
SSI	32	65.5609	27.0276	24.22	141.9	810516	811124
DICHOT15	0	.	.	.	.	.	.
FINE15	0	.	.	.	.	.	.
COARSE15	0	.	.	.	.	.	.
RATIO15	0	.	.	.	.	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

----- SITE=010570001A07 NAME=HUFFMAN -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	89	60.1009	19.8754	20.7900	132.800	800503	811031
SSI	90	49.0081	15.3273	19.3300	95.940	800503	811031
DICHOT15	84	43.0185	18.3638	12.9200	95.190	800509	811031
FINE15	84	23.6720	9.8021	6.6100	51.460	800509	811031
COARSE15	84	19.3462	12.6506	3.2900	58.140	800509	811031
RATIO15	82	0.7050	0.1954	0.3767	1.544	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

----- SITE=012380029A07 NAME=MOBILE (WKRG STA TOWER) -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	0	.	.	.	.	.	.
SSI	0	.	.	.	.	.	.
DICHOT15	60	39.2513	16.2769	16.45	86.05	810907	821231
FINE15	60	20.3378	10.0071	6.58	47.57	810907	821231
COARSE15	60	18.9138	10.5015	5.18	56.88	810907	821231
RATIO15	0	.	.	.	.	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

ENVIRONMENTAL PROTECTION AGENCY
 INHALABLE PARTICULATE NETWORK
 NETWORK DATA SUMMARY
 RATIO15=DICHOT15/HIVOL RATIO10=DICHOT10/HIVOL

----- SITE=030440006A07 NAME=CAREFREE AIRPORT -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	116	41.3222	17.7390	10.2400	98.2600	790813	821014
SSI	41	30.9524	12.1812	10.8900	67.6400	801205	811130
DICHOT15	82	23.9704	11.2229	3.4030	68.1700	810504	821014
FINE15	82	7.3344	3.0555	1.2080	16.5500	810504	821014
COARSE15	82	16.6365	9.8213	1.6250	57.4900	810504	821014
RATIO15	68	0.5035	0.1008	0.2684	0.8563	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

----- SITE=030600002A07 NAME=PHOENIX (ROOSEVELT ST) -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	146	114.879	43.5056	28.8800	270.900	790831	821231
SSI	96	80.294	32.5482	22.5500	179.100	800720	821231
DICHOT15	95	66.479	30.8640	12.3900	148.400	801223	821225
FINE15	95	24.158	18.0797	6.0900	106.900	801223	821225
COARSE15	95	42.322	19.5586	5.5800	106.000	801223	821225
RATIO15	90	0.584	0.1839	0.2995	1.528	.	.
DICHOT10	49	39.229	17.8777	12.8100	99.540	820129	821225
FINE10	49	15.264	9.7582	5.5300	66.910	820129	821225
COARSE10	49	23.965	11.1009	3.2300	51.340	820129	821225
RATIO10	47	0.383	0.0823	0.1899	0.577	.	.

----- SITE=030600004A07 NAME=NORTH PHOENIX -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	71	110.158	43.0318	24.78	239.3	790813	810504
SSI	75	74.795	28.8708	28.17	155.7	800316	811124
DICHOT15	50	53.652	21.2844	14.06	112.9	810603	820511
FINE15	50	15.852	8.7184	4.86	37.0	810603	820511
COARSE15	50	37.799	17.0454	5.65	75.9	810603	820511
RATIO15	0	.	.	.	.	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

ENVIRONMENTAL PROTECTION AGENCY
 INHALABLE PARTICULATE NETWORK
 NETWORK DATA SUMMARY
 RATIO15=DICHOT15/HIVOL RATIO10=DICHOT10/HIVOL

----- SITE=030600004A57 NAME=NORTH PHOENIX (COL) -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	0	.	.	.	.	.	.
SSI	24	70.8133	26.6832	38.61	127.7	810703	811124
DICHOT15	0	.	.	.	.	.	.
FINE15	0	.	.	.	.	.	.
COARSE15	0	.	.	.	.	.	.
RATIO15	0	.	.	.	.	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

----- SITE=041440001A07 NAME=LITTLE ROCK -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	114	62.3267	22.4546	27.6500	133.900	801129	821231
SSI	63	52.2378	19.1933	20.3000	124.100	801123	811212
DICHOT15	32	34.9144	13.4013	10.0400	69.320	820523	821207
FINE15	32	18.6606	8.5927	5.0600	41.100	820523	821207
COARSE15	32	16.2537	6.9797	3.8400	32.820	820523	821207
RATIO15	31	0.5791	0.1194	0.3109	0.829	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

----- SITE=050500002A07 NAME=AZUSA (LOREN AVE) -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	113	126.717	49.9182	20.3500	273.600	790813	810925
SSI	68	98.411	41.7206	15.8800	216.300	790813	811118
DICHOT15	92	57.189	39.8249	3.8450	303.600	791018	821107
FINE15	92	28.765	19.1999	2.0240	90.800	791018	821107
COARSE15	92	28.426	31.9222	1.0000	283.600	791018	821107
RATIO15	52	0.535	0.1988	0.2148	1.312	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

ENVIRONMENTAL PROTECTION AGENCY
 INHALABLE PARTICULATE NETWORK
 NETWORK DATA SUMMARY
 RATIO15=DICHOT15/HIVOL RATIO10=DICHOT10/HIVOL

----- SITE=012540001A07 NAME=MTN BROOK -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	84	51.5505	20.3411	12.1600	138.400	790726	810510
SSI	33	44.6270	14.0137	24.0500	73.140	810516	811124
DICHOT15	126	28.0009	11.4076	8.7020	64.650	790726	820312
FINE15	126	19.0584	8.5956	4.7460	51.040	790726	820312
COARSE15	126	8.9423	6.2113	0.6700	41.240	790726	820312
RATIO15	83	0.5630	0.1308	0.3272	1.055	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

----- SITE=013200001A07 NAME=TARRANT (PINSON ST) -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	92	120.169	51.2384	28.74	324.60	790720	810516
SSI	92	84.368	31.9175	22.10	173.50	800421	811124
DICHOT15	5	29.294	11.3451	18.26	45.32	821201	821231
FINE15	5	14.890	9.3585	7.58	29.78	821201	821231
COARSE15	5	14.404	3.5746	10.59	19.10	821201	821231
RATIO15	0	.	.	.	.	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

----- SITE=020040003A07 NAME=ANCHORAGE -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	85	56.1208	47.2029	5.321	260.30	800831	820722
SSI	49	38.2945	27.1213	8.263	118.40	800831	811118
DICHOT15	11	20.8199	27.6299	7.156	103.10	821002	821231
FINE15	11	8.2345	3.8746	2.590	15.68	821002	821231
COARSE15	11	12.5743	26.7941	1.121	92.70	821002	821231
RATIO15	0	.	.	.	.	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

ENVIRONMENTAL PROTECTION AGENCY
 INHALABLE PARTICULATE NETWORK
 NETWORK DATA SUMMARY
 RATIO15=DICHOT15/HIVOL RATIO10=DICHOT10/HIVOL

----- SITE=030440006A07

NAME=CAREFREE AIRPORT -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	116	41.3222	17.7390	10.2400	98.2600	790813	821014
SSI	41	30.9524	12.1812	10.8900	67.6400	801205	811130
DICHOT15	82	23.9704	11.2229	3.4030	68.1700	810504	821014
FINE15	82	7.3344	3.0555	1.2080	16.5500	810504	821014
COARSE15	82	16.6365	9.8213	1.6250	57.4900	810504	821014
RATIO15	68	0.5035	0.1008	0.2684	0.8563	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

----- SITE=030600002A07

NAME=PHOENIX (ROOSEVELT ST) -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	146	114.879	43.5056	28.8800	270.900	790831	821231
SSI	96	80.294	32.5482	22.5500	179.100	800720	821231
DICHOT15	95	66.479	30.8640	12.3900	148.400	801223	821225
FINE15	95	24.158	18.0797	6.0900	106.900	801223	821225
COARSE15	95	42.322	19.5586	5.5800	106.000	801223	821225
RATIO15	90	0.584	0.1839	0.2995	1.528	.	.
DICHOT10	49	39.229	17.8777	12.8100	99.540	820129	821225
FINE10	49	15.264	9.7582	5.5300	66.910	820129	821225
COARSE10	49	23.965	11.1009	3.2300	51.340	820129	821225
RATIO10	47	0.383	0.0823	0.1899	0.577	.	.

----- SITE=030600004A07

NAME=NORTH PHOENIX -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	71	110.158	43.0318	24.78	239.3	790813	810504
SSI	75	74.795	28.8708	28.17	155.7	800316	811124
DICHOT15	50	53.652	21.2844	14.06	112.9	810603	820511
FINE15	50	15.852	8.7184	4.86	37.0	810603	820511
COARSE15	50	37.799	17.0454	5.65	75.9	810603	820511
RATIO15	0	.	.	.	.	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

ENVIRONMENTAL PROTECTION AGENCY
 INHALABLE PARTICULATE NETWORK
 NETWORK DATA SUMMARY
 RATIO15=DICHOT15/HIVOL RATIO10=DICHOT10/HIVOL

----- SITE=030600004A57 NAME=NORTH PHOENIX (COL) -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	0	.	.	.	.	.	.
SSI	24	70.8133	26.6832	38.61	127.7	810703	811124
DICHOT15	0	.	.	.	.	.	.
FINE15	0	.	.	.	.	.	.
COARSE15	0	.	.	.	.	.	.
RATIO15	0	.	.	.	.	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

----- SITE=041440001A07 NAME=LITTLE ROCK -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	114	62.3267	22.4546	27.6500	133.900	801129	821231
SSI	63	52.2378	19.1933	20.3000	124.100	801123	811212
DICHOT15	32	34.9144	13.4013	10.0400	69.320	820523	821207
FINE15	32	18.6606	8.5927	5.0600	41.100	820523	821207
COARSE15	32	16.2537	6.9797	3.8400	32.820	820523	821207
RATIO15	31	0.5791	0.1194	0.3109	0.829	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

----- SITE=050500002A07 NAME=AZUSA (LOREN AVE) -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	113	126.717	49.9182	20.3500	273.600	790813	810925
SSI	68	98.411	41.7206	15.8800	216.300	790813	811118
DICHOT15	92	57.189	39.8249	3.8450	303.600	791018	821107
FINE15	92	28.765	19.1999	2.0240	90.800	791018	821107
COARSE15	92	28.426	31.9222	1.0000	283.600	791018	821107
RATIO15	52	0.535	0.1988	0.2148	1.312	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

ENVIRONMENTAL PROTECTION AGENCY
 INHALABLE PARTICULATE NETWORK
 NETWORK DATA SUMMARY

RATIO15=DICHOT15/HIVOL RATIO10=DICHOT10/HIVOL

----- SITE=050520004A07 NAME=BAKERSFIELD (CHESTER AVE) -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	61	123.285	56.1972	40.8400	356.000	800924	821231
SSI	40	113.370	56.1752	27.0800	372.200	800918	810907
DICHOT15	53	64.036	38.9251	14.5500	195.100	801117	821201
FINE15	53	30.803	29.1900	7.4300	140.800	801117	821201
COARSE15	53	33.224	18.5061	5.5100	110.400	801117	821201
RATIO15	40	0.552	0.1644	0.3312	0.991	.	.
DICHOT10	5	69.550	8.2054	57.6700	79.920	821207	821231
FINE10	5	49.524	6.2518	43.1400	58.480	821207	821231
COARSE10	5	20.026	3.4830	14.5300	24.000	821207	821231
RATIO10	3	0.550	0.0421	0.5130	0.596	.	.

----- SITE=051260002A07 NAME=CHICO -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	116	57.0921	26.3039	16.1600	176.500	800831	821231
SSI	49	47.7724	25.6639	12.9000	147.800	800912	811130
DICHOT15	25	27.6988	11.9557	10.5300	47.360	820324	820815
FINE15	25	9.9920	4.0733	4.6400	24.220	820324	820815
COARSE15	25	17.7064	9.3564	3.1600	34.340	820324	820815
RATIO15	23	0.5236	0.0719	0.3654	0.644	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.

----- SITE=052220003A07 NAME=SAN DIEGO (EL CAJON) -----

SAMPLER	N	MEAN	STD	MIN	MAX	STARTED	END_DATE
TSP	58	57.6379	19.9620	13.2700	99.580	811218	821231
SSI	0	.	.	.	.	.	.
DICHOT15	66	39.4053	19.3135	7.3780	113.500	810925	821231
FINE15	66	19.8732	13.9289	4.9900	92.300	810925	821231
COARSE15	66	19.5286	12.4189	1.9770	76.500	810925	821231
RATIO15	51	0.6190	0.0876	0.3712	0.891	.	.
DICHOT10	0	.	.	.	.	.	.
FINE10	0	.	.	.	.	.	.
COARSE10	0	.	.	.	.	.	.
RATIO10	0	.	.	.	.	.	.