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1989 ANNUAL REPORT ON AIR QUALITY IN NEW ENGLAND

This report represents 1989 annual air quality information for all states in New England. The majority of the data included in this report were submitted to EPA by the states from their ambient monitoring networks in accordance with $\underline{40~CFR~58}$. The only data from industrial monitors which have been included are from EPA-required networks in New Hampshire and from Maine's licensing program which supplements the state network.

This report is intended to list potential nonattainment areas for planning purposes. The majority of data used have been evaluated and verified by EPA; however, for the areas listed as nonattainment, the data may require further evaluation by both EPA and the states. This report reflects the status of the AIRS database as of 4/30/90.

Table 1 is a summary of the status of the National Air Monitoring Sites (NAMS) and the State/Local Air Monitoring Sites (SLAMS) submitting data to Region I. This table lists the number of sites operating, the required number of sites, the number of sites reporting precision and accuracy data, and the number of sites not meeting EPA minimum data capture requirements. Following Table 1 is a list of health effects of the criteria pollutants.

Table 2 shows the number of stations violating the National Ambient Air Quality Standards (NAAQS) and the total number of stations reporting data during 1989.

Table 3 lists, by pollutant, the sites in every state in New England, and industrial sites from New Hampshire and Maine. The information presented compares the measured values to each NAAQS. The information included is the number of exceedences, the maximum and second high values, and the annual means (arithmetic mean or average for SO_2 , PM_{10} and NO_2). For intermittent data, an annual mean is not valid unless there are four valid quarters. For PM_{10} , 75% of the scheduled samples must be available for a quarter to be considered valid. For continuous data, 75 percent of the year must be available to calculate a valid annual average.

This table includes several charts of selected air quality monitoring sites which show a linear regression for TSP, Pb, CO, SO_2 , and NO_2 during the last five years. For ozone, a chart of the number of days exceeding the standard each year for the last five years are used.

Table 4 shows the number of stations violating the NAAQS by Air Quality Control Region (AQCR), as well as the total number of monitors in each AQCR. A map delineating the AQCRs in Region I is included at the end of this table.

Table 5 has been developed to point out areas where air quality levels have exceeded the emergency, warning, or alert episode levels. An air pollution alert, warning or emergency will be called when specified pollutant concentrations are reached provided that meteorological conditions are such that these levels can be expected to persist for 12 hours or more. In the case of ozone, an alert, warning or emergency will be called if the situation is likely to recur within the next 24 hours. Episode levels were reached or exceeded for O_3 , in Connecticut, during 1989.

Tables 6 and 7 list the precision and accuracy data submitted by the six New England states. The 95% probability limits for six criteria pollutants are given as a network average for each state.

Figure 8 lists the results from the Region I audit program for Particulates, SO_2 , and O_3 . The results presented on a state-by-state basis give the number of satisfactory, marginal, and unsatisfactory audits.

Table 9 and 10, respectively, list the nonattainment areas in New England with the last reported violation and the attainment and unclassified areas in which there were recent violations of the NAAQS.

Following Table 10 is a discussion of air quality in New England for the criteria pollutants.

Appendix A is a list of AIRS/Air Quality Regional Contacts, their addresses and phone numbers.

NATIONAL AIR QUALITY STANDARDS

<u>Pollutant</u>	Averaging Time	Primary Standards ^b	<u>Secondary Standards</u> ^c
SO ₂	Annual Arithmetic Mean	80 ug/m ³ (0.03 ppm)	
	24 hours (0.14 ppm)	365 ug/m ³	
	3 hours (0.5 ppm)		1300 ug/m ³
PM ₁₀ ^d	Annual Arithmetic Mean	50 ug/m ³	Same as Primary Standard
	24 hours ^e	150 ug/m ³	Same as Primary Standard
СО	8 hours	9 ppm	Same as Primary Standard
	1 hour	35 ppm	Same as Primary Standard
03	1 hour ^e	0.12 ppm	Same as Primary Standard
NO ₂	Annual Arithmetic Mean	100 ug/m ³ (0.05 ppm)	Same as Primary Standard
Pb	Calendar Quarter Arithmetic Mean	1.5 ug/m ³	Same as Primary Standard

a National standards other than those based on annual arithmetic means are not to be exceeded more than once a year.

b National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.

^c National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

PM₁₀ replaced TSP as the ambient particulate standard effective July 31, 1987, and includes only those particles with an aerodynamic diameter of less than or equal to a nominal 10 microns.

Standard based upon an expected exceedance calculation.

TABLE 1

1989 SUMMARY OF NEW ENGLAND NAMS/SLAMS

	CT	ME	MA	NH	RI	VT	TOTALS
NAMS - National Air	Monito	ring Si	<u>tes</u>				
Number Operating ^a	26/20	3/3	34/34	3/3	10/10	2/2	78/72
Number NOT meet- ing EPA's minimum data capture requirements ^b	0	0	3	0	0	0	3
Ave. comp. all monitors	95%	91%	91%	97%	88%	84%	
SIAMS - State/Local	Air Mo	<u>nitorin</u>	g Sites				
Number Operating ^a	57/60	27/27	38/38	33/33	14/14	15/15	184/187
Number NOT meet- ing EPA's minimun data capture <u>requirements</u> b	0	9	3	6	1	2	21
NAMS/SLAMS							
Percent of required	:						
<u>Precision Data</u>	80	85	85	57	100	100	
Accuracy Data	92	95	96	89	86	89	

a x/y - x is the number of sites operating
y is the total number of sites required to be operated
b Adjusted for seasonal monitoring and site start-ups and termination

Health Effects of Criteria Pollutants

Lead (Pb)

Lead causes retardation and brain damage, especially in children. Lead also causes liver disease, interferes with blood formation, the nervous system and the renal system and can affect the normal functions of the reproduction and cardiovascular systems. The sources of lead pollution are motor-vehicle exhaust, lead smelters and battery manufacturing plants.

Ozone (O₃)

Respiratory tract problems such as difficult breathing and reduced lung function may be caused by high ozone levels. Ozone also causes asthma, eye irritation, nasal congestion, reduced resistance to infection and premature aging of lung tissue. It injures vegetation, and has adverse effects on materials. Ozone is generally highest on sultry summer afternoons. Ozone is formed in the atmosphere by the reaction of nitrogen oxides, and hydrocarbons in the presence of sunlight.

Nitrogen Oxides (NO,)

The health effects of this pollutant include respiratory illness, lung damage, and increased airway resistance. It may make one more susceptible to respiratory infection. Nitrogen oxides can cause edema (in concentrations of 10ppm for 8 hours); concentrations of 20-30 ppm for 8 hours can produce fatal lung damage. NO_x also reacts with hydrocarbons to form photochemical oxidants. The sources of nitrogen oxides are: Motor-vehicle exhaust, heat and power generation, nitric acid, explosives, fertilizer plants, and combustion of fuels.

Carbon Monoxide (CO)

Carbon Monoxide acts in the bloodstream to deprive the heart and brain of oxygen. It impairs ability of the blood to carry oxygen, and affects the cardiovascular, nervous, and pulmonary system. Moderate concentrations significantly reduce brain functions, and can cause angina. Carbon Monoxide is caused by the incomplete combustion of carbon, which occurs in motor-vehicles, and some industrial processes.

Sulfur Dioxide (SO₂)

This pollutant causes respiratory tract problems, eye irritation, and permanent harm to lung tissue. It combines with water to form acid aerosols and sulfuric acid mist which falls to earth as acid rain, causing plant and structural damage, and acidifying bodies of water. Sources of sulfur dioxide include heat and power generation facilities, combustion processes that use oil or coal containing sulfur, sulfuric acid plants, petroleum refineries and smelters of sulfur-containing ore.

Suspended Particulate Matter (PM₁₀)

This pollutant causes eye and throat irritation, bronchitis, lung damage, and impaired visibility. It soils materials, causes corrosion, and acts as a carrier of toxics adsorbed or absorbed in it. Motor vehicle exhaust, industrial processes, incinerators, heat and power generation, steel mills, smelters, demolition, wood burning stoves, fugitive dust, and plants are sources of suspended particulate matter.

TABLE 2

NUMBER OF STATIONS VIOLATING
NATIONAL AMBIENT AIR QUALITY STANDARDS

	<u>Standard</u>		CT	ME	MA	NH	RI	VT
<u>so</u> ₂	Annual Primary 24-hour Primary* 3-hour Secondary*	80 ug/m³ 365 ug/m³ 1300 ug/m³	0/18 0/18 0/18	0/15 0/15 0/15	0/11 0/11 0/11	0/13 0/13 0/13	0/3 0/3 0/3	0/2 0/2 0/2
<u>PM</u> ₁₀	Annual Primary 24-hour Primary*	50 ug/m³ 150 ug/m³	0/46 0/46	0/33 0/33	0/14 0/14	0/8 0/8	0/2 0/2	0/5 0/5
<u>CO</u>	8-hour Primary* 1-hour Primary*	9 ppm 35 ppm	0/5 0/5	0/1 0/1	0/7 0/7	0/3 0/3	0/2 0/2	0/1 0/1
<u>O</u> ₃	1-hour Primary*	0.12 ppm	10/10	2/8	4/15	1/5	1/2	0/2
<u>NO</u> 2	Annual Primary	100 ug/m ³	0/3		0/6	0/1	0/1	0/2
<u>Pb</u>	Quarterly Mean	1.5 ug/m ³	0/2	0/6	0/4	0/7	0/4	0/4

^{*}Unless the second highest average exceeds the NAAQS, there is no violation.

x/y - x is the number of stations in violation. y is the total number of stations.

⁻⁻⁻ This pollutant is not monitored in the state.

ABBREVIATIONS AND SYMBOLS USED IN TABLE 3 This table is arranged by parameter. Within each section, there is a map of site locations, a data table, and a 5-year trend graph.

Site Identification number SITE ID

Parameter Occurrence Code - differentiates between POC

monitors for a given pollutant

Monitor type (1=NAMS, 2=SLAMS, 3=Other, 0=Unknown) MT

YR Year

Reporting Organization REP ORG

Number of Observations #OBS

MAX 24-HR:

Highest 24-hour value recorded in the year 1ST Second highest 24-hour value for the year 2ND Third highest 24-hour value for the year 3RD

Fourth highest 24-hour value for the year 4TH

Arithmetic mean ARITH MEAN

Weighted arithmetic mean WTD ARITH MEAN

Geometric mean GEO MEAN

Geometric standard deviation GEO STD

OUARTERLY ARITH MEANS:

First quarter arithmetic mean 1ST Second quarter arithmetic mean 2ND Third quarter arithmetic mean 3RD Fourth quarter arithmetic mean 4TH

Number of quarterly means greater than 1.5 ug/m3 MEANS > 1.5

for lead

MAX VALUES:

Highest 24-hour value recorded for the year 1ST (except Pb for Connecticut and New Hampshire,

which are monthly values).

Second highest 24-hour value recorded for the 2ND year (except Pb for Connecticut and New Hampshire, which are monthly values).

Method METH

MAX 1-HR:

1ST Highest 1-hour value recorded in the year

2ND Second highest 1-hour value recorded in the year

OBS > 35 Number of observations greater than 35 ppm for CO

MAX 8-HR

1ST Highest 8-hour value recorded in the year

2ND Second highest 8-hour value recorded in the year

OBS > 9 Number of 8-hour ave. greater than 9 ppm for CO

OBS > 365 Number of 24-hour ave. greater than 365 ug/m³ for

SO,

MAX 3-HR:

1ST Highest 3-hour value recorded in the year

2ND Second highest 3-hour value recorded in the year

Obs > 1300 Number of 3-hour ave. greater than 1300 ug/m³ for SO₂

NUM MEAS The valid number of days measured

NUM REQ The valid number of days in the ozone season

NUM OBS Number of Observations

SCHEDULED NUM OBS

Number of observations scheduled

% OBS Percent completed of number of observations
scheduled

VALID DAILY 1-HR MAXIMUM:

1ST	Maximum	hourly	value	for	the	highest day
2ND	Maximum	hourly	value	for	the	second highest day
3RD	Maximum	hourly	value	for	the	third highest day
4TH	Maximum	hourly	value	for	the	fourth highest day

VALS > .125:

MEAS Number of measured daily maximum greater than or equal to 0.125 ppm

EST Number of expected violations

MISS DAYS ASSUMED < STANDARD

Number of missing days assumed to be less than the standard THE DATA IN TABLE 3 CONSISTS OF BOTH STATE AND PRIVATE NETWORKS.

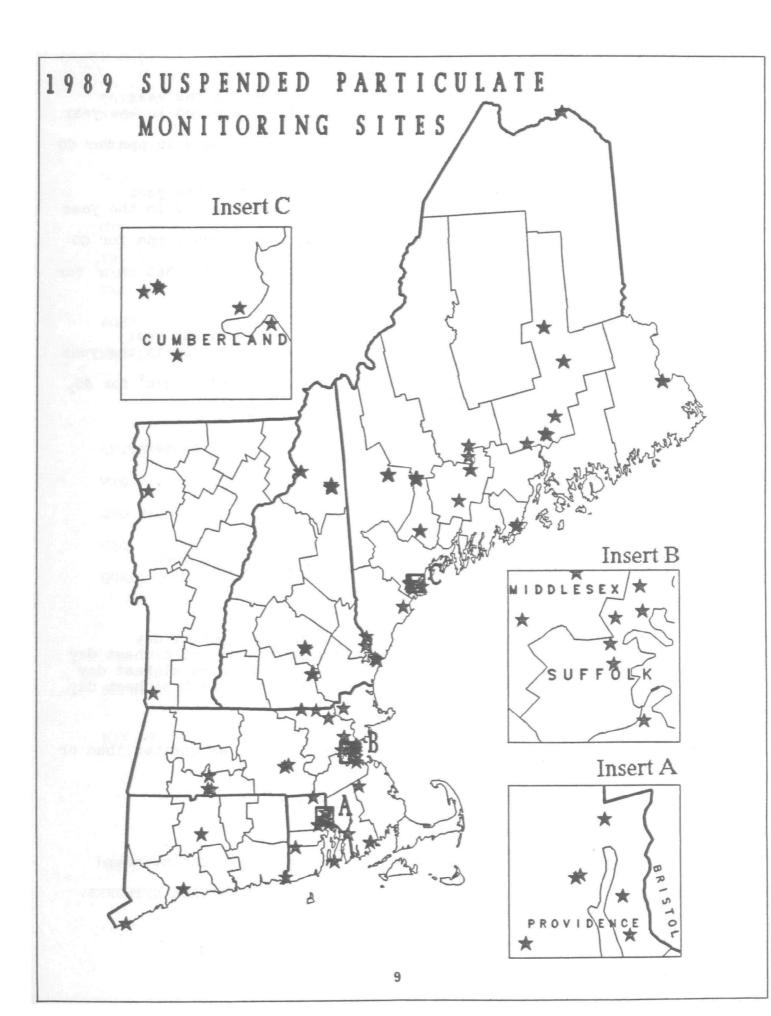


TABLE 3

\$	SUSPENDED PARTICULAT	E (11101)	CONNECTICUT			ι	JNITS:	001 U	G/CU ME	ETER (25 C)		
	O M				REP		MAXII	MUM 24-	HR VAI	UES	ARITH	GEO	GEO
SITE ID	C T CITY	COUNTY	ADDRESS	YR		#OBS	1ST	2ND	3RD	4TH	MEAN	MEAN	STD
09-003-0013	3 1 2 HARTFORD	HARTFORD CO	401 FLATBUSH AVENUE	 89	001	27	104	84	68	63	45?	41?	1.6
09-009-0013	3 1 2 NEW HAVEN	NEW HAVEN CO	FIRE HEADQUARTERS, GRAND AV	89	001	27	104	88	82	80	52?	47?	1.6
09-001-002	1 1 2 STAMFORD	FAIRFIELD CO	COMMUNITY CENTER, HENRY ST	89	001	29	96	93	85	84	48?	43?	1.7
? INDICATES	S THAT THE MEAN DOES	NOT SATISFY SUMMA	ARY CRITERIA										
	SUSPENDED PARTICULAT	E (11101)	MAINE	*********		l	JNITS:	001 U	/CU ME	TER (25 C)		
	P												
	0 M				REP		-MAXI	1UM 24-	HR VAL	UES	ARITH	GEO	GEO
SITE ID	C T CITY	COUNTY	ADDRESS	YR	ORG	#OBS	187	2ND	3RD	4TH	MEAN	MEAN	STD
23-019-4005	5 1 3	PENOBSCOT CO	NEWBURGH CONSOLIDATED SCH	89	001	271	103	72	69	64	23	19	1.7
23-029-0008	3 1 4	WASHINGTON CO	WOODLAND HIGH SCHOOL	89	112	162	146	121	119	107	32	26	1.9
23-029-0018	3 1 4	WASHINGTON CO	PIPLELINE WEST OF RT. 1 - W	89	000	56	45	37	34	34	16	14	1.6
23-001-0008	3 1 2 AUBURN	ANDROSCOGGIN CO	LEPAGE BAKERY-60 SECOND ST	89	001	43	115	111	80	79	46?	42?	1.6
23-011-0005	5 1 3 AUGUSTA	KENNEBEC CO	FIRE HOUSE-HARTFORD SQUARE	89	001	20	159	132	92	81	63?	55?	1.7
23-029-0007	7 1 4 BAILEYVILLE	WASHINGTON CO	SEC. TREAT, PIPELINE-WOODLA	89	112	55	108	57	52	52	26	22	1.7
23-019-0001	1 1 3 BANGOR	PENOBSCOT CO	BANGOR OFFICE-31 CENTRAL ST	89	001	19	143	125	125	113	70?	61?	1.7
23-019-0002	2 1 3 BANGOR	PENOBSCOT CO	PUMP STATION-WASHINGTON ST.	89	001	61	177	164	150	133	65	56	1.8
23-031-0001	1 1 3 BERWICK	YORK CO	SCHOOL STREET	89	001	25	128	118	118	116	78?	73?	1.5
23-031-0002	2 1 2 BIDDEFORD	YORK CO	TREATMENT PLANT-WATER ST.	89	001	61	83	78	68	65	35	32	1.6
23-019-1002	2 1 2 BREWER	PENOBSCOT CO	JUNIOR HIGH SCH-SOMERSET ST	89	001	59	92	82	80	75	41	37	1.6
23-007-0003	5 1 3 JAY	FRANKLIN CO	JEWELL PROPERTY-CRASH ROAD	89	103	153	78	60	59	57	24	20	2.0
23-007-0004	1 3 JAY	FRANKLIN CO	BOMASTER PROPERTY-JAY HILL	89	103	148	105	97	86	86	31	25	1.9
23-007-0008		FRANKLIN CO	IP - BURNHAM SITE	89	103	146	106	105	96	89	40	33	1.9
23-007-2001	l 1 3 JAY	FRANKLIN CO	INT. PAPER COLAGOON HILL	89	103	142	144	112	109	90	41	35	1.8
23-001-0011	1 1 3 LEWISTON	ANDROSCOGGIN CO	COUNTRY KITCHEN LOT	89	001	30	114	107	96	93	55?	51?	1.5
23-019-1007	7 1 0 LINCOLN	PENOBSCOT CO	THOMAS MOT. TRA. PRK.	89	109	283	374	157	154	116	41	34	1.9

SUSPENDED PARTICULATE (11101)

MAINE (continued)

UNITS: 001 UG/CU METER (25 C)

Р REP GEO GEO 0 M --MAXIMUM 24-HR VALUES-- ARITH YR ORG #OBS 1ST STD SITE ID C T CITY COUNTY ADDRESS 2ND 3RD 4TH MEAN MEAN 23-019-2003 1 0 LINCOLN PENOBSCOT CO POST OFFICE-50 FLEMING ST. 89 109 318 284 213 142 210 44 38 1.8 VOCA. EDU. BLDG-W. BROADWAY 89 001 295 141 23-019-3002 1 0 LINCOLN PENOBSCOT CO 197 122 119 41 35 1.8 23-003-0011 1 2 MADAWASKA AROOSTOOK CO 11TH AVE - MADAWASKA 89 001 93 268 166 136 121 55? 48? 1.7 LABONVILLE'S-ROUTE#2 89 104 121 154 142 OXFORD CO 176 122 23-017-0008 1 4 MEXICO 55 47 1.8 89 110 112 130 109 87 23-019-2009 1 4 MILLINOCKET PENOBSCOT CO YORK STREET-MILLINOCKET 84 37 32 1.8 89 000 29 43 35 23-019-4002 1 4 MILLINOCKET PENOBSCOT CO AIRPORT-MEDWAY ROAD 56 51 212 197 1.6 77 212 167 88 82 23-019-4003 1 2 OLD TOWN PENOBSCOT CO MARSH ISLAND APTS-S. MAIN S 89 001 37? 312 1.8 CUMBERLAND CO SHELTER SITE-OXFORD & ELM S 89 001 105 97 91 90 56? 52? 1.5 23-005-0014 1 3 PORTLAND 23-017-2005 1 4 RUMFORD OXFORD CO TAYLOR MOUNTAIN-1 89 104 158 118 108 98 95 39 34 1.8 76 23-017-2006 1 4 RUMFORD OXFORD CO TAYLOR MOUNTAIN-2 89 104 143 111 85 70 28 24 1.8 74 23-017-2007 1 4 RUMFORD OXFORD CO VILLAGE GREEN-ROUTE#108 89 001 174 89 81 78 34 30 1.7 110 98 77 71 29 1.8 23-017-2008 1 4 RUMFORD OXFORD CO TAYLOR HILL 3 89 104 171 25 23-017-2009 1 4 RUMFORD OXFORD CO TAYLOR HILL 4 89 104 174 122 109 94 84 36 30 1.8 48 42 41 40 20 1.9 23-025-2001 1 4 SKOWHEGAN SOMERSET CO HINKLEY FARM SCHOOL 89 107 60 17 38 38 38 20? 18? 1.7 23-025-2002 1 4 SKOWHEGAN SOMERSET CO EATON RIDGE-SCOTT PAPER CO. 89 107 46 49 100 MAINE MALL RD 89 001 37 256 196 97 86 54? 44? 1.8 23-005-0021 1 3 SOUTH PORTLAND CUMBERLAND CO SMVTI-HILDRETH HALL-FORT RD 89 001 63 69 67 62 56 30 27 1.5 23-005-6002 1 2 SOUTH PORTLAND CUMBERLAND CO 23-013-1007 1 4 THOMASTON KNOX CO MARSH ROAD, THOMASTON 89 017 119 73 67 61 59 26 23 1.6 99 94 92 89 1.9 23-013-2001 1 4 THOMASTON KNOX CO MITCHELL PROP.-2 DEXTER AVE 89 000 122 31 25 143 118 105 47? 412 1.7 23-011-1003 1 2 WATERVILLE KENNEBEC CO STERN'S DEPT. STORE-93 MAIN 89 001 54 167 196 187 182 179 70 62 1.7 23-005-1008 1 4 WESTBROOK RESEARCH BUILDING-WARREN AV 89 101 104 CUMBERLAND CO 56 201 136 133 105 59 1.5 23-005-1012 1 4 WESTBROOK CUMBERLAND CO WAREHOUSE NO. 5, MAIN ST 89 101 64 23-005-7002 1 4 WESTBROOK CUMBERLAND CO N.E.T.&T. CO.-ASH STREET 89 001 57 101 94 94 89 50 46 1.5 89 107 131 195 162 161 59 52 1.6 23-011-2003 1 3 WINSLOW KENNEBEC CO (GHR) GULLEY HILL ROAD 160

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

	0 M				REP		-MAXIM	IUM 24-	HR VAL	UES	ARITH	GEO	GEO
SITE ID	C T CITY	COUNTY	ADDRESS	YR	ORG	#OBS	15T	2ND	3RD	4TH	MEAN	MEAN	STD
25-025-0012	1 1 BOSTON	SUFFOLK CO	115 SOUTHAMPTON STREET	89	001	59	176	124	109	109	66	62	1.4
25-025-0021	1 1 BOSTON	SUFFOLK CO	340 BREMAN STREET	89	001	60	111	86	78	77	53	50	1.4
25-025-0024	1 2 BOSTON	SUFFOLK CO	200 COLUMBUS AVENUE	89	001	56	140	93	91	88	58	55	1.4
25-025-0027	1 2 BOSTON	SUFFOLK CO	ONE CITY SQUARE, CHARLESTOW	89	001	61	187	158	157	150	84	76	1.5
25-023-0003	1 2 BROCKTON	PLYMOUTH CO	CRESCENT STREET (ROUTE 27)	89	001	60	92	71	62	62	39	36	1.5
25-025-1003	1 2 CHELSEA	SUFFOLK CO	POWDER HORN HILL	89	001	60	96	96	79	75	42	40	1.5
25-013-0006	1 O CHICOPEE	HAMPDEN CO	CORNER OF GRATTAN AND MEAD	89	000	4	73	67	42	29	53?	49?	1.5
25-005-3001	1 2 FALL RIVER	BRISTOL CO	CENTRAL FIRE STATION	89	001	16	72	57	53	53	44?	42?	1.5
25-005-3001	2 2 FALL RIVER	BRISTOL CO	CENTRAL FIRE STATION	89	001	56	92	72	69	63	42	39	1.5
25-013-1007	1 2 HOLYOKE	HAMPDEN CO	ONE COURT SQUARE	89	001	60	112	110	101	92	49	44	1.6
25-009-0005	1 2 LAWRENCE	ESSEX CO	HIGH STREET, STORROW PARK	89	001	60	114	78	72	65	40	37	1.5
25-017-0006	1 2 LOWELL	MIDDLESEX CO	LOWELL YMCA, 35 YMCA DRIVE	89	001	61	120	77	74	69	44	41	1.5
25-017-3002	1 2 MEDFORD	MIDDLESEX CO	100 TO 120 MAIN STREET	89	001	57	336	243	215	164	63	52	1.7
25-005-2004	1 2 NEW BEDFORD	BRISTOL CO	YMCA, 25 WATER STREET	89	001	58	143	83	67	66	42	39	1.5
25-015-0003	1 3 NORTHAMPTON	HAMPSHIRE CO	ZISKIND HALL, SMITH COLLEGE	89	000	5	70	59	51	28	47?	44?	1.5
25-021-0007	1 1 QUINCY	NORFOLK CO	HANCOCK STREET	89	001	60	117	75	62	60	41	38	1.5
25-013-0011	1 2 SPRINGFIELD	HAMPDEN CO	59 HOWARD STREET	89	001	58	111	110	99	88	52	47	1.5
25-013-0012	1 0 SPRINGFIELD	HAMPDEN CO	CIVIC CENTER	89	000	5	91	68	60	50	61?	58?	1.4
25-013-0013	1 0 SPRINGFIELD	HAMPDEN CO	ROSE STREET	89	000	5	127	94	88	51	78?	697	1.8
25-013-1009	1 0 SPRINGFIELD	HAMPDEN CO	LONGHILL STREET SUBSTATION	89	000	5	99	85	75	69	74?	71?	1.4
25-017-1005	1 2 WATERTOWN	MIDDLESEX CO	VICTORY FIELD	89	001	60	153	118	66	60	42	38	1.5
25-013-5003	1 2 WEST SPRINGFIE	L HAMPDEN CO	W. SPRINGFIELD FIRE DEPT	89	001	56	113	103	98	80	49	46	1.5
25-017-7002	1 1 WOBURN	MIDDLESEX CO	WOBURN STREET AND MONTVALE	89	001	57	94	86	66	66	40	37	1.5
25-027-0013	1 2 WORCESTER	WORCESTER CO	419 BELMONT STREET	89	001	58	123	88	82	81	44	39	1.7
25-027-0016	1 2 WORCESTER	WORCESTER CO	2 WASHINGTON STREET	89	001	60	127	107	106	96	55	50	1.6
? INDICATES	THAT THE MEAN DOES	NOT SATISFY SUM	MARY CRITERIA										

SUSPENDED PARTICULATE (11101)

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

NEW HAMPSHIRE

UNITS: 001 UG/CU METER (25 C)

-	Р		••••							,,		,		
	O M					REP	-	-MAXIM	UM 24-	HR VAL	.UES	ARITH	GEO	GEO
SITE ID	C T	CITY	COUNTY	ADDRESS	YR	ORG	#OBS	1ST	SND	3RD	4TH	MEAN	MEAN	STD
33-007-0001	1 2	BERLIN	coos co	ANGEL GUARDIAN SCHOOL	89	001	17	139	127	79	75	60?	52?	1.8
33-007-0001	2 3	BERLIN	coos co	ANGEL GUARDIAN SCHOOL	89	902	104	135	121	109	106	51	46	1.6
33-007-0008	1 3	BERLIN	coos co	OFF HUTCHINS STREET	89	902	5	30	29	28	22	23?	21?	1.8
33-007-0014	1 3	BERLIN	coos co	LANCASTER STREET TRAILER	89	001	30	193	174	171	145	88?	75?	1.9
33-007-0014	2 3	BERLIN	coos co	LANCASTER STREET TRAILER	89	902	92	303	270	242	232	98?	81?	1.9
33-007-0016	1 3	BERLIN	coos co	200 ENMAN HILL ROAD	89	902	31	66	59	48	47	29?	26?	1.6
33-007-0019	1 3	BERLIN	coos co	CATES HILL RD	89	000	27	55	47	46	42	29?	27?	1.6
33-013-0003	1 2	CONCORD	MERRIMACK CO	NO. STATE HOUSE	89	001	57	85	80	75	60	35	30	1.7
33-013-0004	1 0	CONCORD	MERRIMACK CO	JUNCTION RTS. 3 AND 93	89	001	56	170	140	130	128	57	46	2.0
33-013-0004	2 0	CONCORD	MERRIMACK CO	JUNCTION RTS. 3 AND 93	89	001	56	164	161	151	131	55	40	2.6
33-017-0001	1 2	DOVER	STRAFFORD CO	CENTRAL AVE	89	001	57	270	101	99	89	49	41	1.7
33-011-0008	1 2	MANCHESTER	HILLSBOROUGH CO	NOTRE DAME AVENUE	89	001	59	110	75	64	63	41	37	1.5
33-011-0015	1 2	MANCHESTER	HILLSBOROUGH CO	351 CHESTNUT STREET	89	001	59	91	73	64	63	40	37	1.6
33-011-0015	2 3	MANCHESTER	HILLSBOROUGH CO	351 CHESTNUT STREET	89	001	58	101	63	62	60	41	38	1.5
33-011-0016	1 3	MANCHESTER	HILLSBOROUGH CO	HARNETT PARK, MUNICIPAL PK	89	001	58	100	72	64	63	42	39	1.5
33-011-0016	2 3	MANCHESTER	HILLSBOROUGH CO	HARNETT PARK, MUNICIPAL PK	89	001	55	99	92	89	73	45	41	1.5
33-011-1010	1 3	NASHUA	HILLSBOROUGH CO	SANDERS ASSOCIATES	89	001	59	95	86	71	68	36	32	1.7
33-007-1005	1 2	NORTHUMBERLAND	coos co	ST. FRANCIS HALL, STATE ST	89	001	37	66	58	57	46	32?	30?	1.4
33-007-2003	2 3	NORTHUMBERLAND	coos co	BROOKLYN STREET	89	001	44	63	59	57	55	33?	31?	1.4
33-015-0006	1 2	PORTSMOUTH	ROCKINGHAM CO	COURT STREET	89	001	50	159	93	74	70	43?	38?	1.7
33-015-0009	1 2	PORTSMOUTH	ROCKINGHAM CO	VAUGHAN STREET	89	001	57	122	98	80	80	47?	43?	1.6
33-015-0011	1 0	PORTSMOUTH	ROCKINGHAM CO	SCHILLER SUB STATION - PSCN	89	001	57	150	91	70	64	35	30	1.8

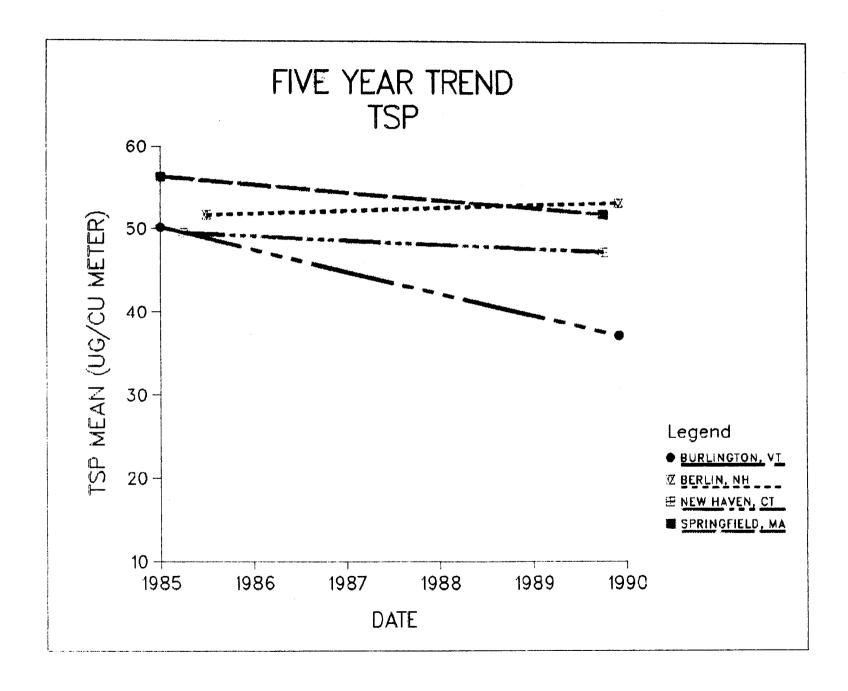
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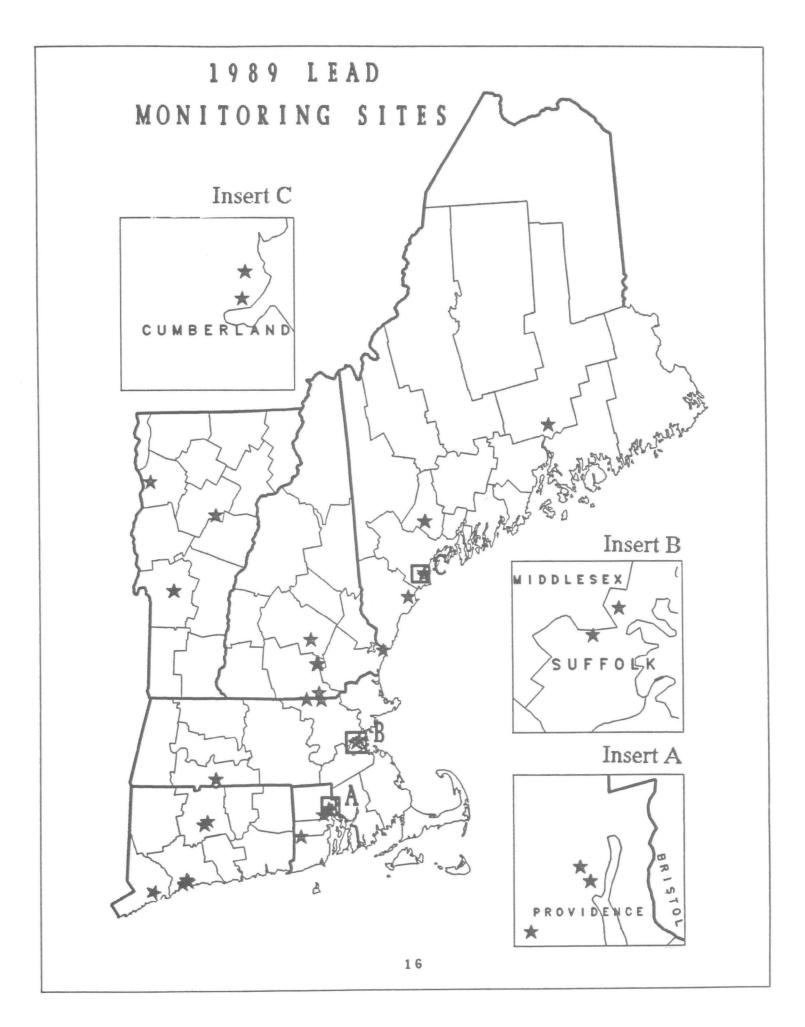
091

HI-VOL

	SUSPENDED PARTICULA	TE (11101)	RHODE ISLAND			ι	JNITS:	001 UG	/CU ME	TER (25 C)		
	, O M				REP		MAXIM	UM 24-	HR VAL	.UES	ARITH	GEO	GE
SITE ID	C T CITY	COUNTY	ADDRESS	YR	ORG	#OBS	1ST	2ND	3RD	4 T H	MEAN	MEAN	ST
44-003-000	2 1 2	KENT CO	W. ALTON JONES CAMPUS URI	89	001	60	70	62	54	41	22	19	1.
44-007-000	3 1 1 CRANSTON	PROVIDENCE CO	CRANSTON FIRE DEPT	89	001	57	118	77	76	74	46	43	1.5
44-007-000	8 1 1 EAST PROVIDEN	CE PROVIDENCE CO	E. PROV. FIRE STATION NORTH	89	001	59	117	84	80	79	45	41	1.6
44-007-000	9 1 2 EAST PROVIDEN	CE PROVIDENCE CO	PAWTUCKET AVENUE	89	001	60	109	90	85	69	40	36	1.7
44-005-200	1 1 2 NEWPORT	NEWPORT CO	NEWPORT CITY HALL	89	001	60	67	63	61	59	37	34	1.5
44-007-100	4 1 1 PAWTUCKET	PROVIDENCE CO	HOSPITAL TRUST 215 MAIN ST	89	001	59	119	105	89	87	50	46	1.5
44-007-001	5 1 1 PROVIDENCE	PROVIDENCE CO	DEPT. OF HEALTH BUILDING	89	001	58	121	108	106	88	53	49	1.6
44-007-001	7 1 1 PROVIDENCE	PROVIDENCE CO	SABIN STREET PROVIDENCE	89	001	59	118	107	94	92	55	50	1.6
44-009-400	2 1 2 WESTERLY	WASHINGTON CO	WESTERLY POLICE DEPARTMENT	89	001	45	89	83	81	80	51?	47?	1.5
44-007-400	2 1 2 WOONSOCKET	PROVIDENCE CO	127 SOCIAL STREET	89	001	61	139	104	100	96	50	44	1.7
? INDICATE	S THAT THE MEAN DOE	S NOT SATISFY SUMM	ARY CRITERIA										
	SUSPENDED PARTICULA	TE (11101)	VERMONT			U	NITS:	001 UG	/CU ME	TER (2	25 C)		
	P												
	0 M				REP	-	-MAXIM	JM 24-	HR VAL	UES	ARITH	GEO	GEC
SITE ID	C T CITY	COUNTY	ADDRESS	YR	ORG	#OBS	157	2ND	3RD	4TH	MEAN	MEAN	STD
50-003-000	3 1 2 BENNINGTON	BENNINGTON CO	ROUTE 7, BENNINGTON	89	001	19	69	63	62	59	40?	37?	1.6
50-007-000	5 1 2 BURLINGTON	CHITTENDEN CO	39 PEARL STREET	89	001	60	84	81	79	68	40	37	1.5
? INDICATE	S THAT THE MEAN DOE	S NOT SATISFY SUMM	ARY CRITERIA										
		SUSPENDED PARTI	CULATE (11101)										
METHODS:	CODE	COLLECTION ME	THOD ANALY	SIS	METH	IOD							
	====	=======================================	=======================================	====	====	=====	:=== = :	===					
	000	MULTIPLE METHODS	MULTIPLE MET										

GRAVIMETRIC





	P	(12128)		CONN	ECT	ICUT			UI	NITS: 001	UG/CU P	METER (25 C)		
	0 M					REP		Q U	ARTERLY	ARITH ME	ANS	MEANS	MAX V	ALUES	
SITE ID	СТ	CITY	COUNTY	ADDRESS	YR	ORG	#OBS	1ST	2ND	3RD	4TH		15T	2ND	MET
09-003-0013	1 2	HARTFORD	HARTFORD CO	401 FLATBUSH AVE	89	001	6	. 03	.02			0	.04	.03	092
09-009-0013	1 2	NEW HAVEN	NEW HAVEN CO	FIRE HEADQUARTERS		001	6	.02	.03			0	.03	.03	092
09-001-0010	1 2	BRIDGEPORT	ROOSEVELT SC		89	001	12	.06	.04	.07	.03	0	.14	.09	094
09-003-0015	1 2	HARTFORD	HELCO, 400 S	HELDON ST	89	001	5	.01	.03	.01	.03	0	.04	.03	094
09-003-0016	1 1	HARTFORD	AETNA GARAGE		89	001	12	.03	.04	.09	.03	0	.12	.10	094
09-003-1004	1 1	E HARTFORD	CITY HALL, 7	40 MAIN ST	89	001	3			,	.03	0	.02	.01	094
09-009-0018	1 2	NEW HAVEN	STILES STREE	Т	89	001	11	.08	.06	.04	.06	0	.02	.09	094
09-009-0018	2 2	NEW HAVEN	STILES STREE	Т	89	001	12	.08	.05	.05	.06	0	.09	.09	094
09-009-2123	2 2	WATERBURY	MEADOW ST OF	F RAMP	89	001	11	.04	.04	.05	.06	0	.10		094
L		(12128)		MAIN	E			*************	UN	IITS: 001	UG/CU M	ETER (25 C)		
	P												,		
	0 M					REP		QU/	ARTERLY	ARITH ME	ANS	MEANS		ALUES	
SITE ID	0 M	CITY	COUNTY	ADDRESS	YR		#OBS	QU/	ARTERLY 2ND	ARITH ME 3RD	ANS 4TH	MEANS		ALUES 2nd	METH
23-001-0008	0 M C T	AUBURN		ADDRESS LEPAGE BAKERY-60 S		ORG	#0BS					MEANS	MAX V/	SND	
23-001-0008	0 M C T	AUBURN	ANDROSCOGGIN		89	0RG		1ST	2ND	3RD		MEANS >1.5	MAX V/ 1ST	2ND .05	092
23-001-0008 23-019-0002	0 M C T 1 0 1 0	CITY AUBURN BANGOR	ANDROSCOGGIN	LEPAGE BAKERY-60 S	89 89	0RG	44	1ST 	2ND .02	3RD .02	4TH	MEANS >1.5	MAX V/ 1ST .06	2ND .05 .08	092 092
23-001-0008 23-019-0002 23-031-0002 23-001-0011	0 M C T 1 0 1 0 1 3 1 2	AUBURN BANGOR BIDDEFORD LEWISTON	ANDROSCOGGIN PENOBSCOT CO YORK CO	LEPAGE BAKERY-60 S PUMP STATION-WASHI	89 89 89	0RG 000 001	44 61	.03 .04	.02 .02	.02 .01	4TH 	MEANS >1.5 0	MAX V/ 1ST .06 .09 .82	.05 .08 .74	092 092 092
23-001-0008 23-019-0002 23-031-0002 23-001-0011 23-005-0014	0 M C T 1 0 1 0 1 3 1 2 2 2	AUBURN BANGOR BIDDEFORD LEWISTON PORTLAND	ANDROSCOGGIN PENOBSCOT CO YORK CO ANDROSCOGGIN	LEPAGE BAKERY-60 S PUMP STATION-WASHI TREATMENT PLANT	89 89 89 89	000 001 001 001	44 61 41	.03 .04	.02 .02 .12	.02 .01 .04	.02 .02?	MEANS >1.5 0 0	MAX V/ 1ST .06	.05 .08 .74	092 092 092 092
	0 M C T 1 0 1 0 1 3 1 2 2 2	AUBURN BANGOR BIDDEFORD LEWISTON PORTLAND	ANDROSCOGGIN PENOBSCOT CO YORK CO ANDROSCOGGIN CUMBERLAND C	LEPAGE BAKERY-60 S PUMP STATION-WASHI TREATMENT PLANT COUNTRY KITCHEN	89 89 89 89	000 001 001 001	44 61 41 32	.03 .04 .02?	.02 .02 .12 .09?	.02 .01 .04	.02 .02? .02?	MEANS >1.5 0 0 0	.06 .09 .82	.05 .08 .74	092 092 092 092 092

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LI	EAD ((12128)		MASS	ACHU	USET	TS		UN	ITS: 001	UG/CU M	ETER (25 C)		
	0 M					REP		QL	JARTERLY	ARITH ME	ANS	MEANS	MAX V	ALUES	
SITE ID	C T	CITY	COUNTY	ADDRESS	YR	ORG	#OBS	157	2ND	3RD	4TH	>1.5	157	2ND	METH
25-025-0002	1 1	BOSTON	SUFFOLK CO	KENMORE SQUARE	89	001	56	.08	.05	.06	.03	0	.30	.13	092
25-025-0027	2 1	BOSTON	SUFFOLK CO	ONE CITY SQUARE	89	001	61	.06	.04	.04	.04	0	.23	.09	092
25-013-0011	2 1	SPRINGFIELD	HAMPDEN CO	59 HOWARD STREET	89	001	56	.05	.03	.04	.03?	0	.08	.07	092
25-013-2007	1 1	SPRINGFIELD	HAMPDEN CO	EAST COLUMBUS AVE	89	001	52	.06	.05	.05	.04	0	.13	.09	092
? INDICATES	THAT	THE MEAN DOES	NOT SATISFY	SUMMARY CRITERIA											
SITE ID	P O M	(12128) CITY	COUNTY	NEW I		REP	#OBS	qu 1st	JARTERLY A		UG/CU M ANS 4TH			ALUES 2nd	METH
33-013-0004	1 2	CONCORD	MEDDINACK CO	JUNCTION RTS. 3,93	90	001	 12	.03	.03	.02	.03	0	.04		092
33-013-0004		_		JUNCTION RTS. 3,93			12	.03	.03	.02	.03	0	.04	.04	
33-011-2001				RTE. 122, SILVER L			12	.02	.02	.01	.01	0	.03		092
33-011-0008				NOTRE DAME AVENUE			12	.03	.02	.02	.02	0	.04	.03	
33-011-0015	1 2	MANCHESTER		351 CHESTNUT ST		001	12	.02	.03	.02	.03	0	.04	.03	
33-011-0015	2 0	MANCHESTER				001	12	.02	.02	.02	.02	0	.04	.04	
33-011-1007			HILLSBOROUGH	MAIN STREET	89	001	12	.02	.03	.02	.01	0	.04	.03	092
33-011-1010	1 0	NASHUA	HILLSBOROUGH	SANDERS ASSOCIATES	89	001	12	.02	.02	.01	.01	0	.04	.03	092
33-011-1010 33-015-0006				SANDERS ASSOCIATES COURT STREET		001	12 12	.02 .04	.02 .04	.01 .02	.01 .02	0	.04 .07	.03 .06	092 092

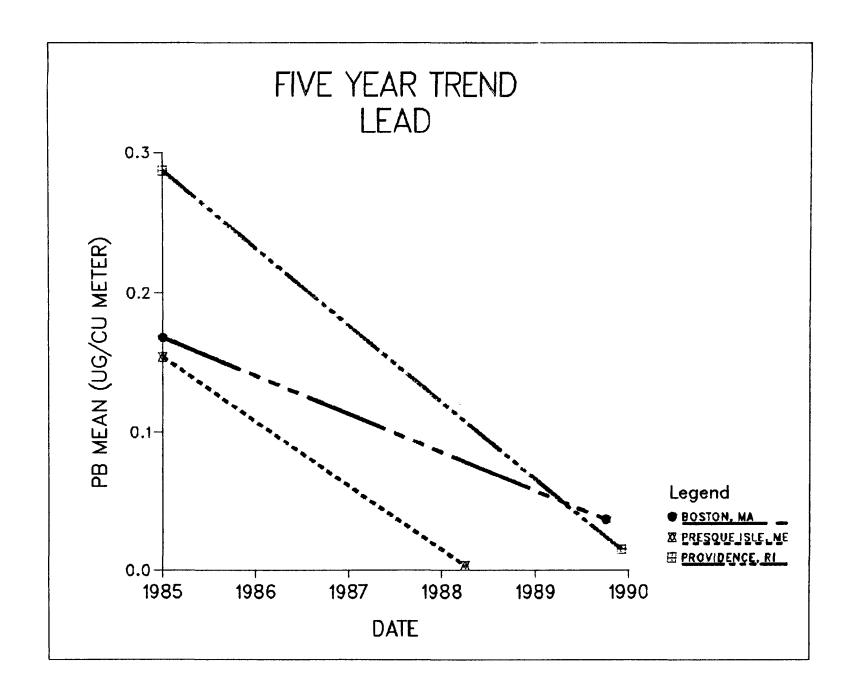
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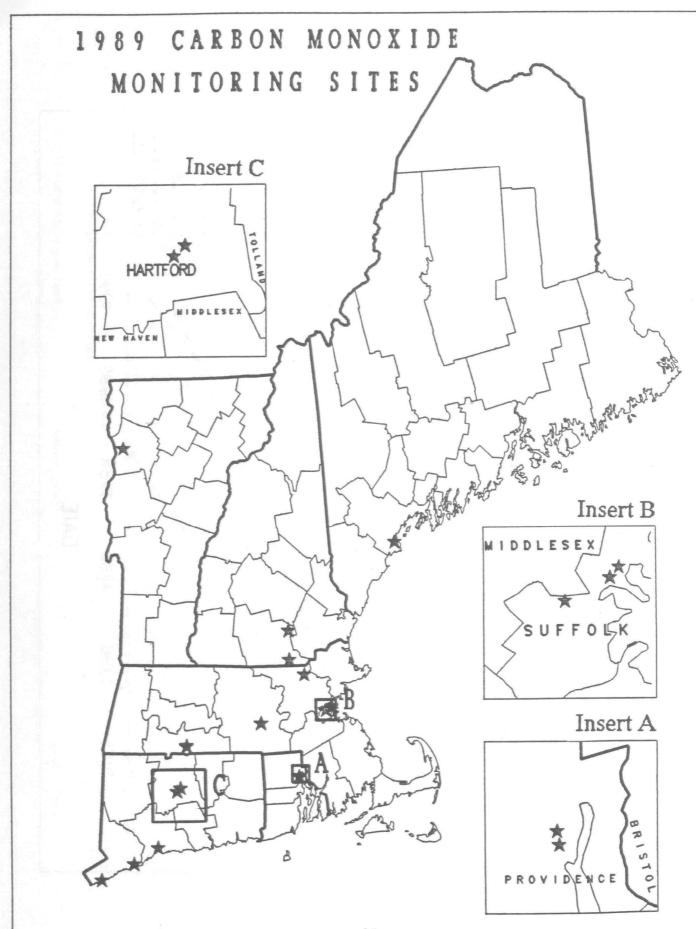
092

HI-VOL

		(12128)			RHOD	E I	SLAN	D		Ui	NITS: 001	UG/CU M	IETER (25 C)		
	P O M	 					REP		QU	ARTERLY	ARITH ME	ANS	MEANS	MAX V	ALUES	
SITE ID	C T	CITY	COUNTY	ADDRESS		YR	ORG	#OBS	15T	2ND	3RD	4TH	>1.5	157	2ND	METH
44-003-0002	2 2		KENT CO	W. ALTON	JONES CAM	89	800	60	.02	.02	.02	.02	0	.03	.02	090
44-007-0003	1 0	CRANSTON	PROVIDENCE	CRANSTON	FIRE DEPT	89	001	57	.05	.02	.03	.03	0	.36	.09	090
44-007-0017	2 1	PROVIDENCE	PROVIDENCE	SABIN ST	REET	89	001	59	.04	.04	.04	.04	0	.11	.08	090
44-007-1007	1 1	PROVIDENCE	PROVIDENCE	TRAILER,	120 DYER	89	001	60	.21	.06	.06	.05	0	.87	.74	090
		(12128)			VERM	ONT				U	NITS: 001	UG/CU N	METER (25 C)		
	P O M						REP		QU	ARTERLY	ARITH ME	ANS	MEANS	MAX V	ALUES	
		CITY	COUNTY	ADDRESS -		YR	ORG	#08\$	15T	2ND	3RD	4TH	>1.5		2ND	MET
50-023-0003	1 3	BARRE	WASHINGTON	SOUTH SER	MINARY ST	89	001	43	.02	.02?	.017	.02?	0	.10	.04	092
50-023-0003	2 3	BARRE	WASHINGTON	SOUTH SEM	INARY ST	89	001	2				.01?	0	.01	.01	092
50-007-0003	4 3	BURLINGTON	CHITTENDEN	ADJ. TO 8	32 S. WING	89	001	40	.02		.01	.02	0	.05	.04	092
50-021-0002	1 2	RUTLAND	RUTLAND CO	PARKING L	LOT	89	001	40		.02	.02	.03	0	.08	.05	092
50-021-0004	1 3	RUTLAND	RUTLAND CO	15-19 WAL	ES STREET	89	001	10	.03?				0	.04	.04	092
? INDICATES	THA	T THE MEAN DOE	S NOT SATISFY	SUMMARY CF	RITERIA											
			LEAD (121	28)												
METHODS:		CODE	COLLECTIO	N METHOD				ANAL	YSIS ME	THOD						
		====	==========			=	====	=====	======	======	=======	=				
		090	HI-VOL			E	MISS	ION SP	ECTRA I	CAP						

ATOMIC ABSORPTION





C	ARBO	N MONOXIDE (42	101)	CONNECTICUT				UN	ITS: 007	PPM				
	O M					REP		MAX	1-HR	OBS>	MAX	8-HR	OBS>	
SITE ID	C T	CITY	COUNTY	ADDRESS	YR	ORG	#OBS	151	2ND	35	1ST	2ND	9	METH
09-001-0004	1 2	BRIDGEPORT	FAIRFIELD CO	JASPER MCLEVY HALL	89	001	8518	8.3	8.3	0	5.9	5.2	0	011
09-003-0013	1 1	HARTFORD	HARTFORD CO	401 FLATBUSH AVENUE	89	001	8065	7.2	6.3	0	4.9	4.4	0	011
09-003-0017	1 1	HARTFORD	HARTFORD CO	COURTHOUSE, 155 MORGAN	89	001	8306	21.3	15.3	0	9.6	9.0	1	011
09-009-0019	1 2	NEW HAVEN	NEW HAVEN CO	80 TEMPLE STREET	89	000	8524	10.1	9.2	0	6.4	6.0	0	011
09-001-0020	1 2	STAMFORD	FAIRFIELD CO	LIBRARY 96 BROAD ST	89	001	8672	9.6	9.4	0	6.4	6.0	0	011
C	ARBOI P	N MONOXIDE (42	101)	MAINE				UN	ITS: 007	'PPM				
	0 M					REP		MAX	1 - HR	OBS>	MAX	8-HR	OBS>	
SITE ID	C T	CITY	COUNTY	ADDRESS	YR	ORG	#OBS	181	2ND	35	1ST	2ND	9	METH
23-005-0018	1 2	PORTLAND	CUMBERLAND CO	529 CONGRESS STREET	89	001	1610	10.5	6.4	0	4.2	4.2	0	011
C	ARBOI	N MONOXIDE (42	101)	MASSACHUSETTS				UN	ITS: 007	PPM				
	0 M					REP		MAX	1-HR	OBS>	MAX	8-HR	OBS>	
SITE ID	C T	CITY	COUNTY	ADDRESS	YR	ORG	#OBS	1ST	2ND	35	1ST	2ND	9	METH
25-025-0002	1 2	BOSTON	SUFFOLK CO	KENMORE SQUARE	89	001	8532	10.0	9.0	0	6.6	6.1	0	011
25-025-0016	1 2	BOSTON	SUFFOLK CO	VISCONTI STREET	89	000	8043	11.0	10.0	0	5.3	4.9	0	011
25-025-0021	1 1	BOSTON	SUFFOLK CO	340 BREMAN STREET	89	001	8718	8.0	7.0	0	4.8	4.5	0	011
25-017-0007	1 2	LOWELL	MIDDLESEX CO	OLD CITY HALL, MERRIMACK	89	001	8545	11.0	9.0	0	5.4	5.3	0	011
25-013-0016	1 2	SPRINGFIELD	HAMPDEN CO	LIBERTY ST PARKING LOT	89	001	7074	10.0	9.0	0	7.6	7.6	0	011

EAST COLUMBUS AVENUE

CENTRAL ST FIRE STATION 89 001 8664 14.0

89 001 8077 11.0

10.0

14.0

0 7.4

0 8.0

6.5

7.9

011

011

25-013-2007 1 1 SPRINGFIELD

25-027-0020 1 2 WORCESTER

HAMPDEN CO

WORCESTER CO

CARBON MONOXIDE (42101)

NEW HAMPSHIRE

UNITS: 007 PPM

	P	N HONOXIDE (42	1017	'	NEW HAM OHIRE				0						
	r O M						REP		MAX	1-HR	OBS>	MAX	8-HR	OBS>	
SITE ID	СТ	CITY	COUNTY	ADDRESS		YR	ORG	#OBS	1ST	2ND	35	1ST	2ND	9	METH
33-011-0017	1 2	MANCHESTER	HILLSBOROUGH CO	1170 ELM S	TREET	89	001	3422	14.1	12.1	0	7.2	7.0	0	011
33-011-0018	1 2	MANCHESTER	HILLSBOROUGH CO	20 BRIDGE	STREET	89	001	5001	10.4	8.8	0	5.3	4.8	0	011
33-011-1009	1 2	NASHUA	HILLSBOROUGH CO	25 MAIN ST	REET	89	001	5955	11.5	9.2	0	5.1	4.9	0	011
CA	RBO	N MONOXIDE (42	101)		RHODE ISLAND				UN	TS: 007	PPM		********	*************	**********
	P									4 45					
	O M						REP			1-HR	OBS>		8-HR	OB\$>	
SITE ID	C T	CITY	COUNTY	ADDRESS		YR	ORG	#OBS	1ST	2ND	35	151	2ND	9	METH
44-007-0015	1 1	PROVIDENCE	PROVIDENCE CO	DEPT. OF H	EALTH BUILDING	89	001	8521	14.5	13.5	0	8.4	7.5	0	011
44-007-1009	1 1	PROVIDENCE	PROVIDENCE CO	76 DORRANC	E STREET	89	001	8160	11.7	11.4	0	7.3	6.2	0	011
CA	RBO	N MONOXIDE (42	101)		VERMONT				UN	TS: 007	PPM				
	P						REP		MAV	1-HR	OBS>	MAV	8-HR	085>	
	O M							# 000							
SITE ID	CT	CITY	COUNTY	ADDRESS		YR	ORG	#OBS	1ST	2ND	35	15T	2ND	9	METH
50-007-0003	1 2	BURLINGTON	CHITTENDEN CO	ADJ. TO 82	S. WINOOSKI A	89	001	7741	9.7	7.5	0	5.4	3.7	0	011

CARBON MONOXIDE (42101)

METHODS:

CODE

COLLECTION METHOD

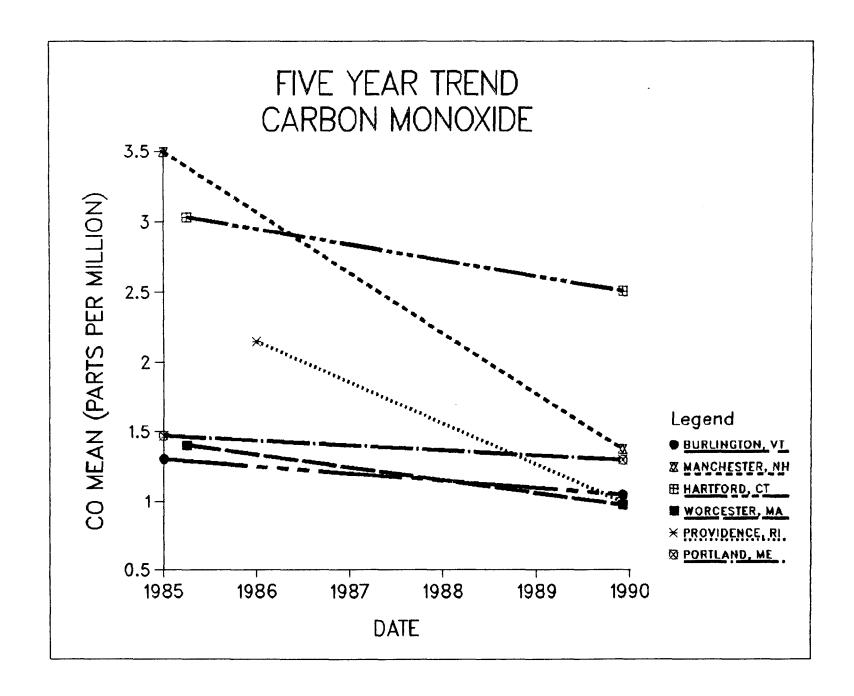
ANALYSIS METHOD

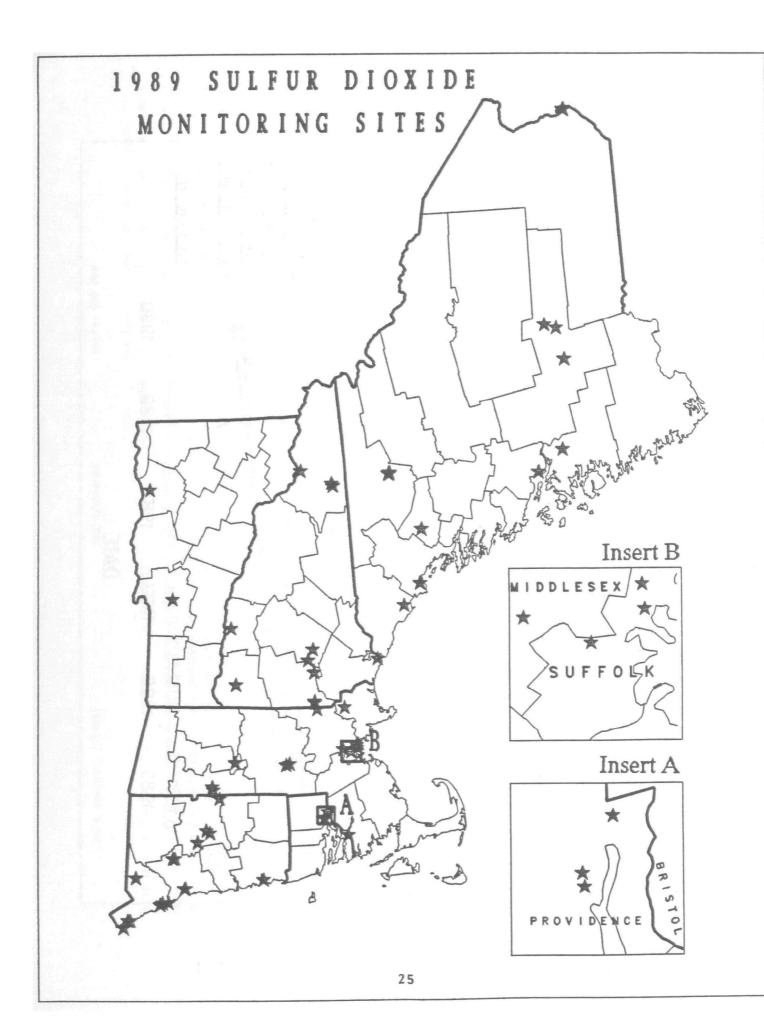
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011

INSTRUMENTAL

NONDISPERSIVE INFRA-RED





	OM					REP		MAX 2	24 - HR	>	MAX	3-HR	>	MAX	1 - HR	ARIT	
SITE ID	C T	CITY	COUNTY	ADDRESS	YR	ORG	#OBS	1S T	2ND	365	15T	2ND	1300	15T	2ND	MEAN	METH
09-001-0012	1 2	BRIDGEPORT	FAIRFIELD CO	115 BOSTON TERRAC	89	001	8337	178	133	0	264	227	0	351	330	36	020
09-001-0113	1 2	BRIDGEPORT	FAIRFIELD CO	30 CONGRESS ST	89	001	7994	132	110	0	257	228	0	280	267	26	020
09-001-1123	1 2	DANBURY	FAIRFIELD CO	TRAILER, W. CT	89	001	8304	120	93	0	218	210	0	233	233	22	020
09-003-0005	1 1	EAST HARTFORD	HARTFORD CO	FIRE STATION	89	001	4391	149	119	0	216	208	0	241	223	27?	020
09-003-2006	1 2	EAST HARTFORD	HARTFORD CO	85 HIGH STREET	89	001	3206	109	105	0	175	170	0	197	194	27?	020
09-009-1003	1 2	EAST HAVEN	NEW HAVEN CO	ANIMAL SHELTER	89	001	8232	146	142	0	327	272	0	356	335	22	020
09-003-1005	1 2	ENFIELD	HARTFORD CO	SHAKER ROAD	89	001	8317	112	98	0	152	140	0	228	186	18	020
09-001-0017	1 2	GREENWICH	FAIRFIELD CO	GREENWICH POINT	89	001	8273	94	76	0	132	126	0	139	136	16	020
09-011-0007	1 2	GROTON	NEW LONDON C	FIRE HEADQUARTERS	89	001	7990	84	71	0	160	148	0	212	199	20	020
09-003-1018	1 2	HARTFORD	HARTFORD CO	CORNER OF SHELDON	89	001	8014	122	120	0	208	183	0	241	220	28	020
09-009-0010	1 2	MILFORD	NEW HAVEN CO	EGAN CENTER	89	001	8187	174	111	0	335	302	0	409	406	26	020
09-003-1011	1 2	NEW BRITAIN	HARTFORD CO	531 EAST MAIN ST	89	001	8234	153	127	0	256	210	0	301	241	24	020
09-009-0017	1 2	NEW HAVEN	NEW HAVEN CO	LOMBARD STREET	89	001	5955	194	169	0	289	284	0	388	369	30?	020
09-009-1123	2 1	NEW HAVEN	NEW HAVEN CO	715 STATE STREET	89	001	8808	257	231	0	606	534	0	765	584	41	020
09-001-0025	1 2	STAMFORD	FAIRFIELD CO	CORTLAND AVENUE	89	001	8306	181	122	0	235	214	0	267	259	29	020
09-001-2123	1 2	STAMFORD	FAIRFIELD CO	TRAILER , NORTH S	89	001	8342	160	120	0	207	207	0	238	217	25	020
09-009-2123	1 2	. WATERBURY	NEW HAVEN CO	MEADOW ST OFF RAM	89	001	8010	143	127	0	329	245	0	438	333	26	020
09-009-3008	1 2	WATERBURY	NEW HAVEN CO	LYDIA STREET EXTE	89	000	8295	207	168	0	323	293	0	362	348	30	020

CONNECTICUT

UNITS: 001 UG/CU METER (25 C)

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

SULFUR DIOXIDE (42401)

			•												,		
	P									OBS			OBS				
	0 M	1				REP		MAX 2	24-HR	>	MAX	3-HR	>	MAX	1-HR	ARIT	
SITE ID	C T	CITY	COUNTY	ADDRESS	YR	ORG	#OBS	157	2ND	365	151	2ND	1300	1ST	2ND	MEAN	METH
23-009-2003	1 3		HANCOCK CO	BALD MTN., DUANE	89	001	1299	59	26	0	75	74	0	79	79	11?	020
23-031-0002	1 2	BIDDEFORD	YORK CO	TREATMENT PLANT	89	001	7979	80	66	0	174	124	0	225	199	19	020
23-019-2012	1 4	EAST MILLINOCK	PENOBSCOT CO	MAIN STREET/MILL	89	110	8693	29	21	0	125	49	0	335	60	8	060
23-001-0011	1 1	LEWISTON	ANDROSCOGGIN	COUNTRY KITCHEN	89	001	7747	100	91	0	199	187	0	259	238	21	020
23-019-1007	1 3	LINCOLN	PENOBSCOT CO	THOMAS MOT. TRA.	89	109	6794	72	54	0	197	164	0	314	236	10	020
23-003-0009	1 3	MADAWASKA	AROOSTOOK CO	PORTABLE SHELTER	89	000	5538	126	66	0	302	242	0	587	563	15?	020
23-003-0012	1 3	MADAWASKA	AROOSTOOK CO	U.S.POST OFFICE	89	113	8285	158	149	0	427	345	0	616	459	22	020
23-003-1003	1 3	MADAWASKA	AROOSTOOK CO	HIGH SCHOOL-ST.	89	000	8225	84	71	0	217	211	0	388	375	8	020
23-017-0011	1 4	MEXICO	OXFORD CO	HUNT'S PROPERTY	89	104	6753	138	136	0	342	333	. 0	668	479	31	020
23-019-2009	1 2	MILLINOCKET	PENOBSCOT CO	YORK STREET	89	110	8342	115	105	0	507	247	0	686	534	21	060
23-005-0014	1 1	PORTLAND	CUMBERLAND C	SHELTER SITE-OXFO	89	001	8257	116	103	0	164	160	0	210	202	25	020
23-017-2005	1 4	RUMFORD	OXFORD CO	TAYLOR MOUNTAIN-1	89	104	6861	106	106	0	313	290	0	500	482	32	020
23-017-2006	1 4	RUMFORD	OXFORD CO	TAYLOR MOUNTAIN-2	89	104	6832	117	97	0	321	311	0	663	561	28	020
23-017-2007	2 2	RUMFORD	OXFORD CO	VILLAGE GREEN	89	104	8227	97	95	0	414	291	0	618	616	19	020
23-027-0008	1 3	SEARSPORT	WALDO CO	TURNPIKE RD	89	114	6883	66	52	0	229	199	0	529	472	14	020
? INDICATES	THA	T THE MEAN DOES	NOT SATISFY	SUMMARY CRITERIA													

:	SULFUR DIOXIDE	(42401)		MASSACHUSETTS		UN	NITS: 001 UG	/CU ME	TER (25 C)
	P					OBS		OBS	
	0 M			REP	MAX 24-HR	>	MAX 3-HR	>	MAX 1-HR
SITE ID	C T CITY	COUNTY	ADDRESS	YR ORG #OBS	1ST 2ND	365	1ST 2ND	1300	1ST 2ND

SITE ID	O M C T	CITY	COUNTY	ADDRESS	YR	REP ORG	#OBS	MAX 1ST	24-HR 2ND	> 365	MAX 1st	3-HR 2ND	> 1300	MAX 1st	1-HR 2ND	ARIT MEAN	METH
25-025-0002	2 1	BOSTON	SUFFOLK CO	KENMORE SQUARE	89	001	8654	154	132	0	228	208	0	469	307	38	020
25-025-0021	1 1	BOSTON	SUFFOLK CO	340 BREMAN STREET	89	001	8624	140	129	0	249	213	0	291	257	32	020
25-025-1003	1 1	CHELSEA	SUFFOLK CO	POWDER HORN HILL	89	001	8027	147	132	0	246	231	0	299	265	28	020
25-005-1004	1 1	FALL RIVER	BRISTOL CO	GLOBE STREET	89	001	8710	187	92	0	527	356	0	537	532	23	020
25-009-0005	1 1	LAWRENCE	ESSEX CO	HIGH STREET	89	001	8423	112	107	0	243	208	0	270	267	26	000
25-013-0016	1 2	SPRINGFIELD	HAMPDEN CO	LIBERTY STREET	89	001	7866	156	145	0	246	236	0	280	262	33	020
25-013-1009	1 1	SPRINGFIELD	HAMPDEN CO	LONGHILL STREET	89	001	8454	111	108	0	259	216	0	301	301	24	020
25-015-4002	1 2	WARE	HAMPSHIRE CO	QUABBIN SUMMIT	89	001	8495	96	59	0	154	127	0	267	165	13	020
25-017-1005	1 1	WATERTOWN	MIDDLESEX CO	VICTORY FIELD	89	001	8046	135	123	0	227	194	0	249	238	20	020
25-027-0019	2 2	WORCESTER	WORCESTER CO	DPW YARD, BELMONT	89	000	8503	78	68	0	101	100	0	123	113	15	020
25-027-0020	2 1	WORCESTER	WORCESTER CO	CENTRAL STREET	89	001	8151	140	105	0	249	231	Ô	307	301	27	020

SULFUR DIOXIDE (42401)

NEW HAMPSHIRE

UNITS: 001 UG/CU METER (25 C)

	P									OBS			OBS				
	0 M					REP		MAX	24-HR	>	MAX	3-HR	>	MAX	1-HR	ARIT	
SITE ID	C T	CITY	COUNTY	ADDRESS	YR.	ORG	#OBS	157	2ND	365	1ST	2ND	1300	157	2ND	MEAN	METH
33-007-0014	2 2	BERLIN	coos co	LANCASTER STREET	89	902	8448	153	79	0	579	307	0	709	590	21	020
33-007-0016	1 3	BERLIN	coos co	200 ENMAN HILL RD	89	902	7946	71	60	0	243	219	0	435	423	10	020
33-007-0019	1 3	BERLIN	coos co	CATES HILL RD	89	902	8466	114	113	0	462	443	0	783	760	23	020
33-013-0006	1 3	BOW	MERRIMACK CO	SOUTH BOW AND DUN	89	001	8376	59	57	0	224	189	0	333	328	13	023
33-019-0003	1 2	CLAREMONT	SULLIVAN CO	SOUTH STREET	89	001	1443	87	7 74	0	155	141	0	267	228	29?	023
33-005-0007	1 2	KEENE	CHESHIRE CO	RAILROAD STREET	89	001	1328	99	95	0	203	156	0	215	204	39?	023
33-011-0016	1 1	MANCHESTER	HILLSBOROUGH	HARNETT PARK	89	001	8554	126	5 113	0	243	200	0	521	417	24	023
33-011-1005	1 2	NASHUA	HILLSBOROUGH	18 MULLBERRY ST	89	001	4255	51	1 40	0	81	78	0	100	93	12?	023
33-011-1009	1 0	NASHUA	HILLSBOROUGH	25 MAIN STREET	89	001	8546	113	3 111	0	190	179	0	244	238	22	023
33-011-1010	1 2	NASHUA	HILLSBOROUGH	SANDERS ASSOCIATE	89	001	8424	110	87	0	194	190	0	362	241	18	023
33-007-1007	1 3	NORTHUMBERLAND	coos co	ROUTES 110 AND 3,	89	001	4471	142	2 76	0	302	293	0	461	409	15?	023
33-007-1007	2 3	NORTHUMBERLAND	coos co	ROUTES 110 AND 3,	89	001	3345	80	78	0	224	218	0	498	335	13?	020
33-013-1003	1 2	PEMBROKE	MERRIMACK CO	PEMBROKE HILL	89	001	8384	228	3 131	0	496	447	0	697	692	21	023
33-015-0009	1 2	PORTSMOUTH	ROCKINGHAM C	VAUGHAN STREET	89	001	8632	82	2 75	0	227	227	0	346	333	21	023
			NOT SATISFY	SUMMARY CRITERIA													

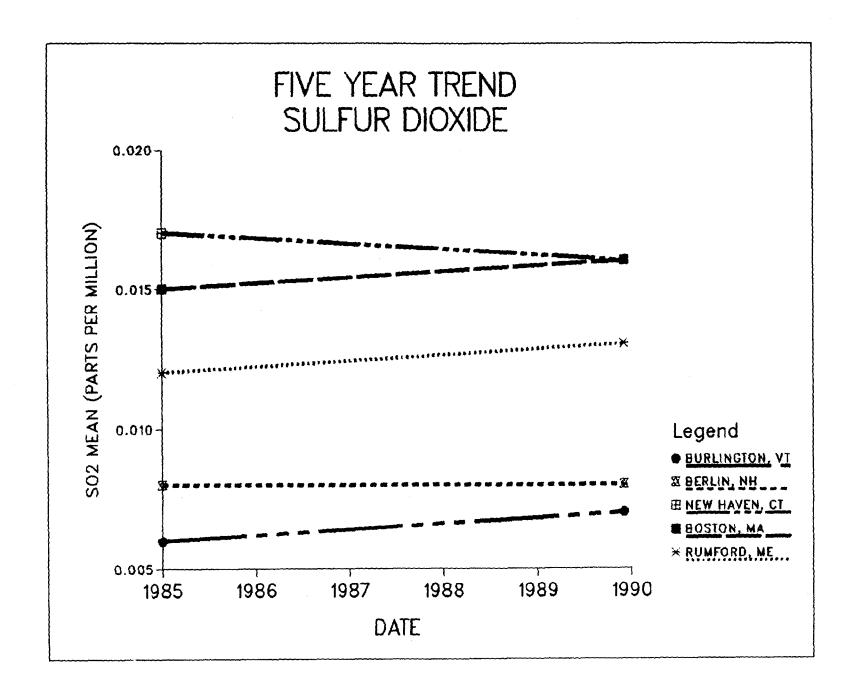
SI	LFUF	R DIOXIDE (4	2401)		RHODE	ISLA	ND			UN	ITS:	001 UG,	CU ME	TER (25 C)		
	Ρ									OBS			OBS				
	0 M					REF	ı	MAX	24-HR	>	MAX	3-HR	>	MAX	1-HR	ARIT	
SITE ID	C T	CITY	COUNTY	ADDRESS	Y	R ORG	#OBS	151	2ND	365	1ST	2ND	1300	151	2ND	MEAN	METH
44-007-1005	1 1	PAWTUCKET	PROVIDENCE C	SUMMIT STREET	8	9. 001	7629	135	104	0	244	237	0	256	252	28	023
44-007-0015	1 1	PROVIDENCE	PROVIDENCE C	DEPT. OF HEAL	TH 8	9 001	8194	108	3 107	0	212	211	0	398	329	28	023
44-007-1009	1 1	PROVIDENCE	PROVIDENCE C	76 DORRANCE S	т 8	9 001	8290	155	122	0	260	237	0	325	302	38	020

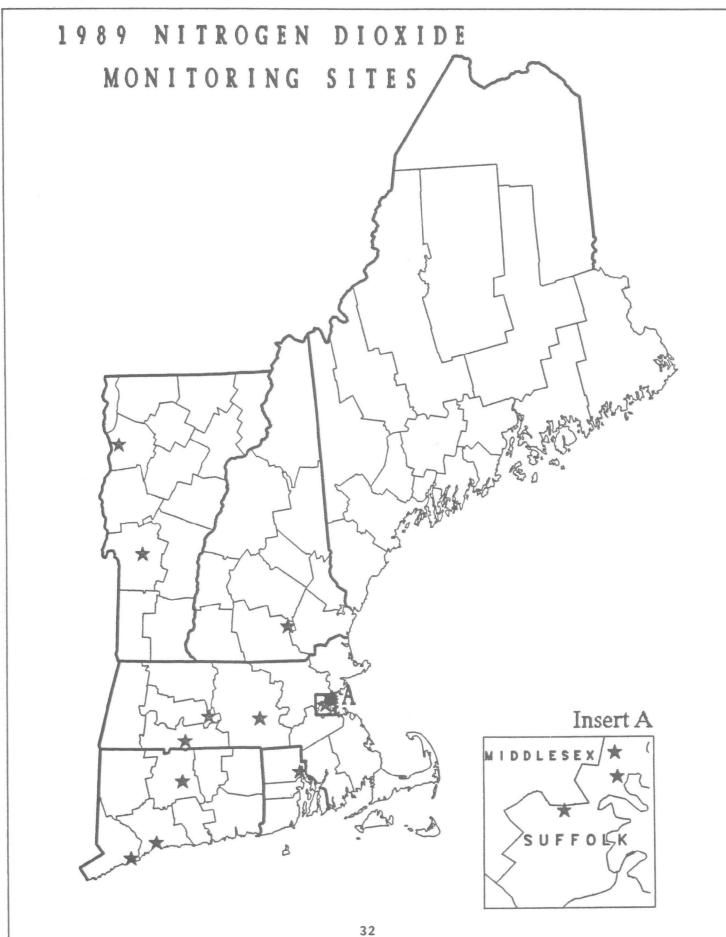
\$	ULFUR	DIOXIDE (4240	1)			VERM	ONT					UNI	TS: 00)1 UG/	CU MET	ER (25	5 C)		
	P											OBS			OBS				
	0 M							REP		MAX	24-HR	>	MAX	3-HR	>	MAX	1-HR	ARIT	
SITE ID	СТ	CITY	COUNTY	ADDRESS			YR	ORG	#OBS	1ST	2ND	365	1ST	2ND	1300	1st	2ND	MEAN	METH
50-007-000	3 1 1	BURLINGTON	CHITTENDEN C	ADJ. TO	82 S	. WIN	89	001	8026	98	82	0	258	177	0	330	304	19	020
50-021-000	2 1 2	RUTLAND	RUTLAND CO	PARKING	LOT		89	001	5304	103	97	0	180	174	0	220	204	27?	020
? INDICATE	S THA	T THE MEAN DOE	S NOT SATISFY	SUMMARY (CRITE	RIA													
			SULFUR DIC	XIDE (42	401)														
METHODS:		CODE	COLLECTIO	N METHOD					ANA	LYSIS	METHO	D							
		====	=========	=======	====	===		====		=====	=====	====	=====	===					
		000	MULTIPLE METHO	DS			1	MULT	IPLE M	ETHODS	S								
		020	INSTRUMENTAL				_												
		020	INSTRUMENTAL				F	PULSI	ED FLU	ORESCI	ENT								

PULSED FLUORESCENT

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N1	ITROGEN DIOXIDE (42	2602)	CONNECTICUT				UNITS	: 007 P	PM			
	P O M				REP		MAX	1-HR	MAY	24-HR	ARIT	
SITE ID	C T CITY	COUNTY	ADDRESS	YR			1ST			2ND	MEAN	MET
09-001-0113	1 2 BRIDGEPORT	FAIRFIELD CO	30 CONGRESS ST (REAR)	89	001	7894	.121	.117	·····		.026	014
09-003-1003	1 2 EAST HARTFORD	HARTFORD CO	30 REMINGTON ROAD	89	001	8161	.075	.074			.020	014
09-009-1123	1 2 NEW HAVEN	NEW HAVEN CO	715 STATE STREET	89	001	8248	.119	.111			.028	014
N:	ITROGEN DIOXIDE (42	2602)	MASSACHUSETTS				UNITS	: 007 P	PM			
	P O M				DED		MAV	1-HR	MAV	24 112		
SITE ID		COUNTY	ADDRESS	YR			1ST		******	24 - HR 2ND	ARIT Mean	MET
25 - 025 - 0002	2 3 BOSTON	SUFFOLK CO	KENMORE SQUARE, 590 COMMON	89	001	8427	.135	.134			.032	014
25-025-0021	1 1 BOSTON	SUFFOLK CO	340 BREMAN STREET	89	001	8637	.115	.105			.032	014
25-025-1003	1 1 CHELSEA	SUFFOLK CO	POWDER HORN HILL	89	001	8312	.178	.157			.030	014
25-013-0016	1 2 SPRINGFIELD	HAMPDEN CO	LIBERTY STREET PARKING LOT	89	001	6797	.150	.130			.029	014
25-015-4002	1 2 WARE	HAMPSHIRE CO	QUABBIN SUMMIT	89	001	8268	.091	.077			.008	014
25-027-0020	1 2 WORCESTER	WORCESTER CO	CENTRAL STREET FIRE STATIC	89	001	8485	.122	.115			.026	014
N	ITROGEN DIOXIDE (4	2602)	NEW HAMPSHIRE				UNITS	6: 007 P	PM			
	P							_				
	O M							1 - HR	•	24 - HR		
SITE ID	C T CITY	COUNTY	ADDRESS	YR	ORG	#OBS	1ST	2ND	15T	2ND	MEAN	MET

P		GEN DIOXIDE (426	02)			ł	RHC	DDE ISLA	ND					UNITS	: 007 P	PM			
0	M	CITY	COUNTY	ADD	RESS	;					YR	REP ORG	#OBS	MAX 1st	1-HR 2ND	MAX 1st	24-HR 2ND	ARIT MEAN	METH
44-007-0012 2			PROVIDENCE CO	ROC	KEFE			LIBRARY,	PRO)SP	89	000	7912		.108	DM		.024	014
D NIII	KUL	GEN DIOXIDE (426	02)			,	VEN	KMUN I						UNIIS	: 007 P	rm			
•	М											REP		MAX	1 - HR	MAX	24-HR	ARIT	
SITE ID C	T	CITY	COUNTY	ADD	RESS	;					YR	ORG	#OBS	1ST	2ND	1ST	2ND	MEAN	METH
50-007-0003 1	2	BURLINGTON	CHITTENDEN CO	ADJ	. TO	82	s.	. WINOOS	KI /	VE	89	001	7745	.066	.066			.019	014
50-021-0002 1	2	RUTLAND	RUTLAND CO	PAR	KING	LO	T A	ADJ. TO	9 ME	RC	89	001	7008	.080	.076			.015	014

METHODS:

CODE

COLLECTION METHOD ====

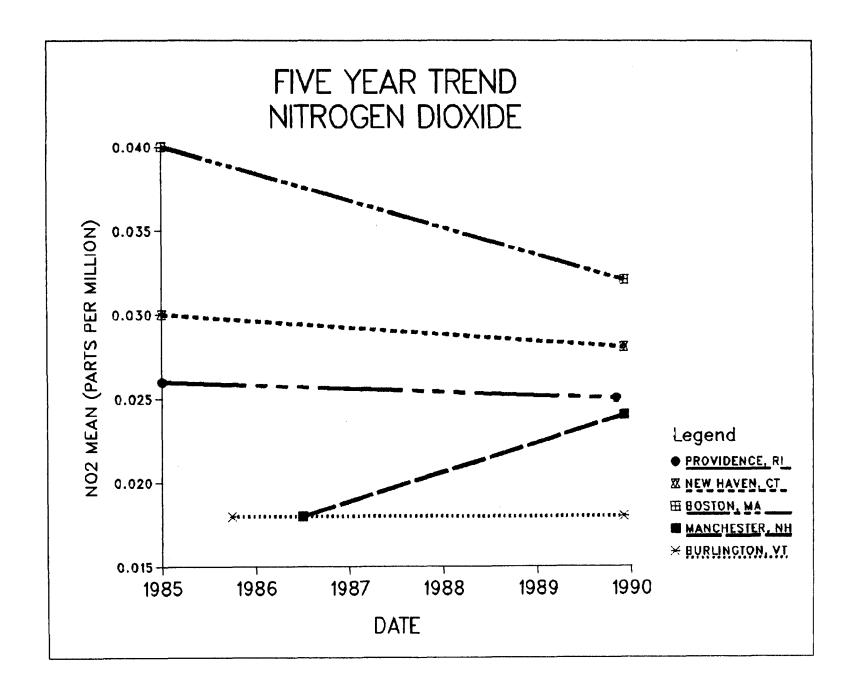
NITROGEN DIOXIDE (42602)

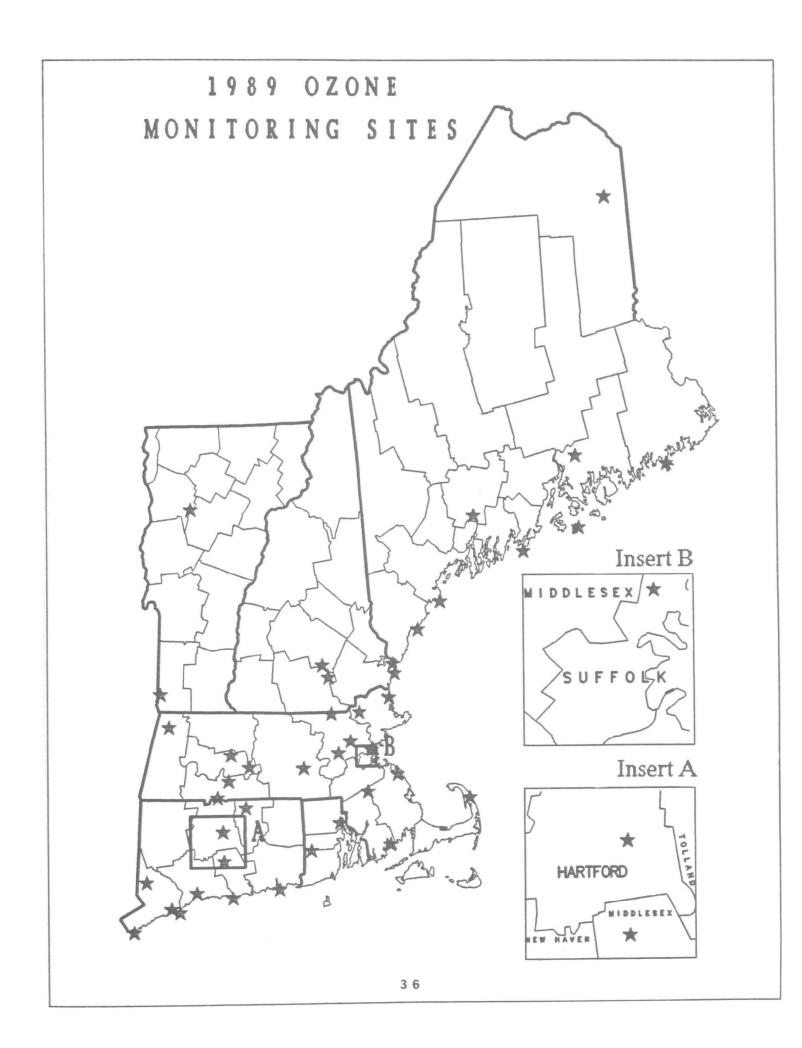
ANALYSIS METHOD -------

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INSTRUMENTAL

CHEMILUMINESCENCE





OZONE SEASON: APR 01 TO OCT 31

	P						*		VALID	DAILY	1-HR MA	KIMUM		*	MISS DAYS	S
	OM					REP	*NUM	NUM		MAX	IMA		VALS>	.125 *	ASSUMED 4	<
SITE ID	C T	CITY	COUNTY	ADDRESS	YR	ORG	*MEAS	REQ	1ST	2ND	3RD	4TH	MEAS	EST *	STANDARD	METH
09-001-0113	1 2	BRIDGEPORT	FAIRFIELD C	30 CONGRESS ST	89	001	213	214	.156	.147	. 145	.131	4	4.0	1	014
09-001-1123	1 2	DANBURY	FAIRFIELD C	TRAILER	89	001	209	214	. 134	.127	.124	.123	2	2.0	1	014
09-003-1003	1 1	EAST HARTFORD	HARTFORD CO	30 REMINGTON RD	89	001	203	214	.166	.140	. 134	.133	5	5.2	1	014
09-001-0017	1 2	GREENWICH	FAIRFIELD C	GREENWICH POINT	89	001	203	214	. 187	.162	.150	.149	7	7.3	1	014
09-011-0008	1 2	GROTON	NEW LONDON	UNIVERSITY OF CT	89	001	197	214	.145	.142	. 137	.132	6	6.4	3	014
09-009-3002	1 3	MADISON	NEW HAVEN C	HAMMONASSET STAT	89	000	192	214	.149	.148	. 136	.126	4	4.3	10	014
09-007-0007	1 1	MIDDLETOWN	MIDDLESEX C	CT VALLEY HOSP	89	001	205	214	.172	. 167	.149	.128	5	5.1	3	014
09-009-1123	1 1	NEW HAVEN	NEW HAVEN C	715 STATE STREET	89	001	195	214	.156	.149	.141	.129	4	4.3	3	014
09-013-1001	1 1	STAFFORD	TOLLAND CO	ROUTE 190	89	001	181	214	.159	. 128	.126	.123	3	3.4	9	014
09-001-3007	1 1	STRATFORD	FAIRFIELD C	USCG LIGHTHOUSE	89	001	203	214	.202	. 175	.165	.156	10	10.4	3	014

OZONE (44201) MAINE UNITS: 007 PPM

OZONE SEASON: APR 01 TO OCT 31

-	P					*		VALID	DAILY	1-HR MA	KIMUM		*	MISS DAYS	5
	0 M				REP	*NUM	NUM		MAX	IMA		VALS>	.125 *	ASSUMED -	<
SITE ID	C T CITY	COUNTY	ADDRESS	YR	ORG	*MEAS	REQ	1ST	2ND	3RD	4TH	MEAS	EST *	STANDARD	METH
23-009-2003	1 2	HANCOCK CO	BALD MTN., DUANE	89	001	134	214	.108	.099	.091	.087	0	0.0	2	000
23-013-0003	1 3	KNOX CO	ISLE AU HAUT	89	000	127	214	.118	.108	.108	.107	0	0.0	1	011
23-013-0004	1 3	KNOX CO	PORT CLYDE	89	001	182	214	.134	.120	.120	.119	1	1.2	2	014
23-031-2002	1 2	YORK CO	OCEAN AVE/PARSON	89	001	159	214	.154	.147	.140	.122	3	4.0	1	011
23-005-2003	1 2 CAPE ELIZABET	CUMBERLAND	SHELTER SITE	89	001	203	214	.146	.130	.125	.113	3	3.2	0	011
23-011-2001	2 2 GARDINER	KENNEBEC CO	GARDINER H.S.	89	001	186	214	.126	.108	.100	.098	1	1.1	2	014
23-029-0019	1 2 JONESPORT	WASHINGTON	JONESPORT	89	001	119	214	.100	.093	.092	.092	0	0.0	0	011
23-003-1008	1 3 PRESQUE ISLE	AROOSTOOK C	PI REGIONAL OFC	89	110	95	214	.061	.060	.057	.057	0	0.0	3	014
23-009-0101	1 3	HANCOCK CO	ACADIA NP	89	815	202	214	.130	.103	.103	.088	1	1.0	5	014

33-011-1010 1 2 NASHUA

33-015-0012 1 2 RYE

33-015-0009 1 1 PORTSMOUTH

OZONE (44201) MASSACHUSETTS UNITS: 007 PPM

HILLSBOROUG SANDERS ASSOCIAT 89 001 211 214 .121

ROCKINGHAM VAUGHAN STREET 89 001 213 214 .114

ROCKINGHAM RYE HARBOR STATE 89 001 213 214 .165

OZONE SEASON: APR 01 TO OCT 31

			UZUNE SENSU	N:	APK	01 10	UL I	31							
	P					*		VALID	DAILY	1-HR MA	MUMIX		*	MISS DAY	s
	0 M				REP	*NUM	NUM		MAX	(IMA		VALS>	.125 *	ASSUMED	<
SITE ID	C T CITY	COUNTY	ADDRESS	YR	ORG	*MEAS	REQ	18T	2ND	3RD	4TH	MEAS	EST *	STANDARD	METI
25-003-4002	1 2 ADAMS	BERKSHIRE C	MT, GREYLOCK	89	001	163	214	.102	.086	.085	.083	0	0.0	1	014
25-013-0003	1 2 AGAWAM	HAMPDEN CO	152 SOUTH WESTFI	89	001	191	214	.148	.125	.119	.118	2	2.2	1	014
25-015-0103	1 3 AMHERST	HAMPSHIRE C	NORTH PLEASANT S	89	001	207	214	.112	.107	.103	.097	0	0.0	2	000
25-025-1003	1 1 CHELSEA	SUFFOLK CO	POWDER HORN HILL	89	001	211	214	.123	.114	.113	.090	0	0.0	1	014
25-013-0008	1 1 CHICOPEE	HAMPDEN CO	ANDERSON ROAD	89	001	204	214	.117	.115	.110	. 109	0	0.0	2	014
25-005-1001	1 1 EASTON	BRISTOL CO	NORTH EASTON	89	001	211	214	.136	.132	.113	.103	2	2.0	3	014
25-005-1002	1 2 FAIRHAVE	N BRISTOL CO	LEROY WOOD SCH	89	001	176	214	.150	.122	.108	.100	1	1.2	0	014
25-009-0005	1 1 LAWRENCE	ESSEX CO	HIGH STREET	89	001	201	214	.118	.106	.103	. 102	0	0.0	2	011
25-017-6001	1 3 LEXINGTO	N MIDDLESEX C	NEW ENGLAND REGI	89	801	146	214	.107	.106	.100	.099	0	0.0	1	014
25-009-4003	1 1 NEWBURYPO	ORT ESSEX CO	PARKER RIVER NWR	89	001	193	214	.123	.123	. 101	.098	0	0.0	1	014
25-023-2001	1 3 SCITUATE	PLYMOUTH CO	SCITUATE POLICE	89	001	203	214	.131	.118	.118	.115	1	1.1	0	014
25-017-1801	1 1 SUDBURY	MIDDLESEX C	WATER ROW RD	89	001	200	214	.122	.120	.111	. 107	0	0.0	3	014
25-001-0002	1 3 TRURO	BARNSTABLE	FOX BOTTOM AREA	89	001	198	214	.144	.128	.127	.127	4	4.3	1	014
25-015-4002	1 1 WARE	HAMPSHIRE C	QUABBIN SUMMIT	89	001	211	214	.168	. 133	.126	. 123	3	3.0	2	014
25-027-0019	1 1 WORCESTE	R WORCESTER C	DPW YARD, BELMON	89	001	214	214	.127	.103	.095	.095	1	1.0	0	014
			-												
020	NE (44201)				AMPSI				UNI	TS: 00	7 PPM				
	_		OZONE SEASO	N: /	APR (ОСТ								
	P					*				1-HR MAX				MISS DAYS	
	0 M					*NUM	NUM			IMA				ASSUMED <	
SITE ID	C T CITY	COUNTY	ADDRESS	YR	ORG	*MEAS	REQ	15T	2ND	3RD	4TH	MEAS	EST *	STANDARD	METH
33-013-0006	1 3 BOW	MERRIMACK C	SOUTH BOW	89	001	200	214	.122	.103	.091	.090	0	0.0	2	011
33-011-0016	1 2 MANCHESTI	ER HILLSBOROUG	HARNETT PARK	89	001	210	214	.117	.089	.085	.080	0	0.0	4	011

.093 .092

.106

.124

.107

.140

.085

.099

.121

0.0

2 2.0

0.0

011

011

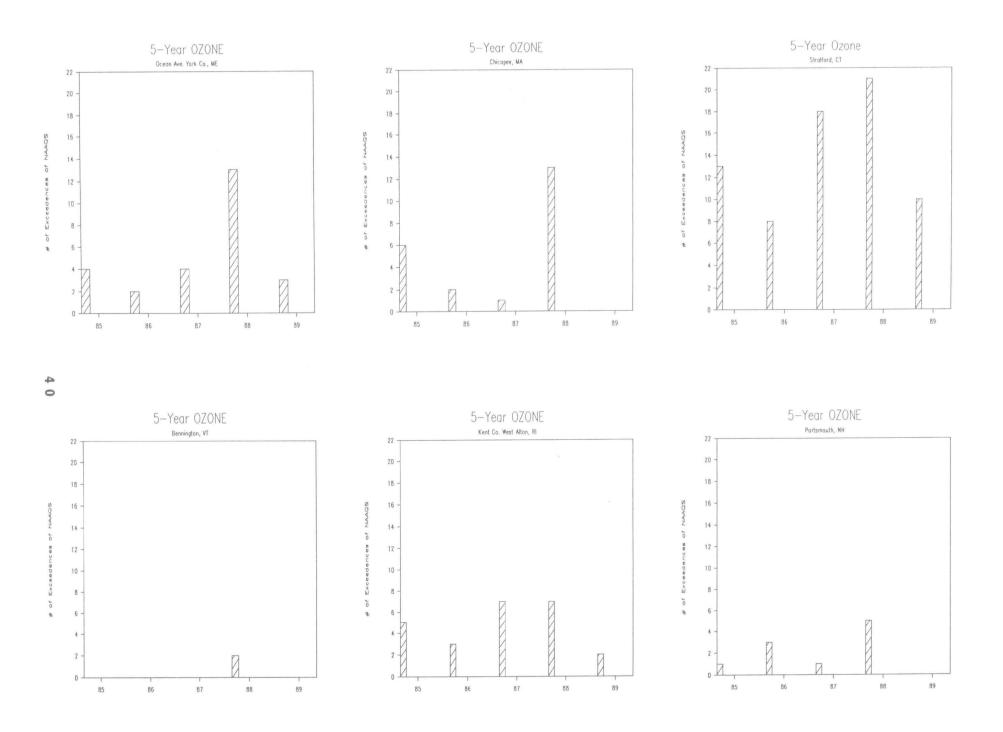
RHODE ISLAND UNITS: 007 PPM

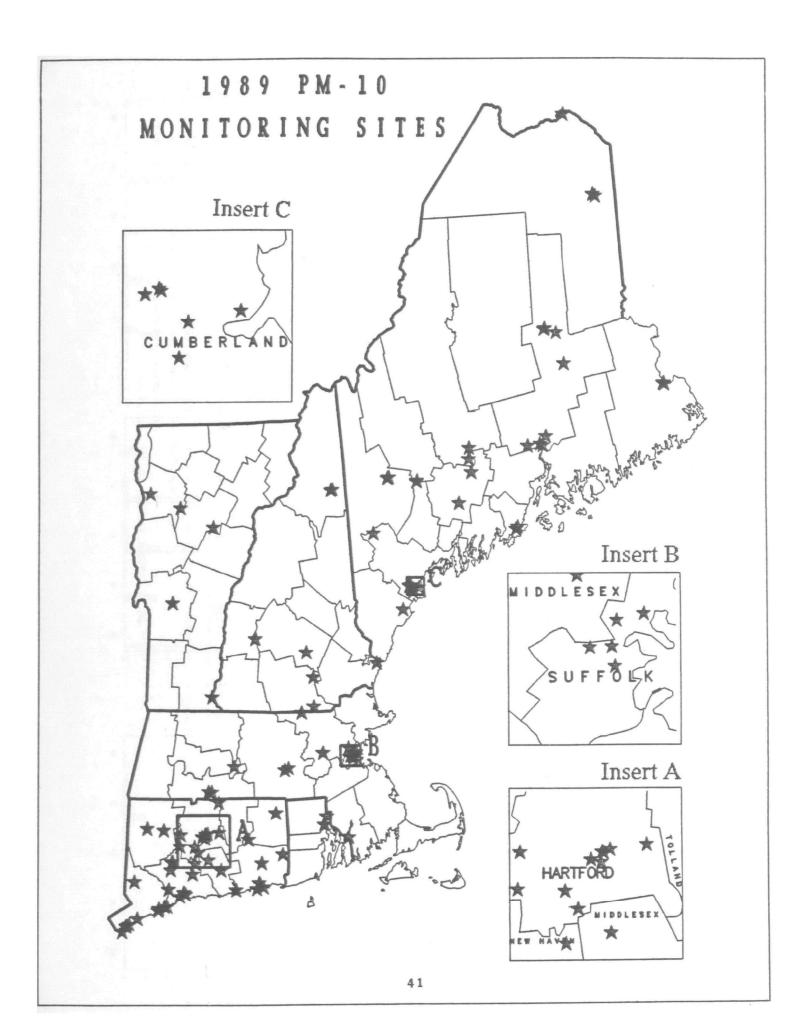
OZONE SEASON: APR 01 TO OCT 31

	P					*		VALID	DAILY	1-HR MAX	MUMI		*	MISS DAYS	
	0 M				REP	*NUM	NUM		MAX	[MA		VALS>	.125 *	ASSUMED	
SITE ID	C T CITY	COUNTY	ADDRESS	C T	YR O	RG *ME	AS REC	a 1st	2ND	3RD	4TH	MEA	S EST	* STANDAR	MET
44-003-0002	1 2	KENT CO	W. ALTON	JONES	89 001	162	214	.160	.132	.112	.107	2	2.6	1	014
44-007-0012	1 1 PROVIDENCE	PROVIDENCE	ROCKEFELL	ER LIB	89 001	198	214	.107	.105	. 099	.095	0	0.0	5	011
	P		OZON	E SEASON	: APR	01 TO *	OCT	-	DAILY	1-HR MA)	(IMUM		*	MISS DAYS	
	•					*									
	0 M					*NUM	NUM			IMA				ASSUMED <	
SITE ID	C T CITY	COUNTY	ADDRESS		YR ORG	*MEAS	REQ	1ST	2ND	3RD	4TH	MEAS	EST *	STANDARD	METH
50-007-0007	1 2	CHITTENDEN	PROCTOR M	APLE	89 001	173	214	.091	.088	.080	.076	0	0.0	4	014
50-003-0004	1 2 BENNINGTON	BENNINGTON	AIRPORT R	D	89 001	205	214	.106	.091	.090	.088	0	0.0	3	014

METHODS:	CODE	COLLECTION METHOD	ANALYSIS METHOD
	====	******************	************************
	000	MULTIPLE METHODS	MULTIPLE METHODS
	011	INSTRUMENTAL	CHEMILUMINESCENCE
	014	INSTRUMENTAL	ULTRA VIOLET

W





UNITS: 001 UG/CU METER (25 C)

	P		(0,	30				SCHI	EDULE	D			,		,		WTD	
	0	м				REP	NUM	NUM	%	NUM	MA	MUMIX	VALUES	3	VALS	> 150	ARITH	
SITE ID	С	T CITY	COUNTY	ADDRESS	YR	ORG	OBS	OBS	OBS	REQ	151	2ND	3RD	4TH	MEAS	EST	MEAN	METH
09-009-0004	1	2 ANSONIA	NEW HAVEN	DIVISION STREET TREAT	89	001	57	57	93	61	56	53	46	44	0	0.00	25	062
09-003-6002	1	3 BERLIN	HARTFORD (BERLIN HIGH SCHOOL	89	001	59	59	97	61	51	48	46	42	0	0.00	22	062
09-001-0010	1	1 BRIDGEPO	RT FAIRFIELD	ROOSEVELT SCHOOL PARK	89	001	57	57	93	61	61	56	56	54	0	0.00	27	062
09-001-0015	1	2 BRIDGEPO	RT FAIRFIELD	MYRTLE AVE	89	001	59	59	97	61	70	69	68	67	0	0.00	36	062
09-001-0113	1	3 BRIDGEPO	RT FAIRFIELD	30 CONGRESS ST (REAR)	89	001	57	57	93	61	63	61	54	53	0	0.00	27	062
09-003-100	1	2 BRISTOL	HARTFORD (CITY HALL 111 N. MAIN	89	001	60	60	98	61	50	44	44	40	0	0.00	23	062
09-003-200	1	2 BURLINGT	ON HARTFORD	PUNCH BROOK ROAD	89	001	58	58	95	61	41	32	29	28	0	0.00	15	062
09-005-000	1	2 CORNWALL	LITCHFIELD	MOHAWK MTN MICROWAVE	89	001	60	60	98	61	45	33	31	30	0	0.00	15	062
09-001-1123	1	3 DANBURY	FAIRFIELD	TRAILER, W. CONNECTIC	89	001	56	56	92	61	52	48	48	47	0	0.00	25	062
09-001-140	1	3 DARIEN	FAIRFIELD	1-95 AT BROOKSIDE DR	89	001	45	45	98	46	60	60	52	49	0	0.00	291	? 062
			TF HARTFORD	CITY HALL, 740 MAIN S	89	001	59	59	97	61	60	57	53	51	0	0.00	26	062
09-003-1009	1	2 ENFIELD	HARTFORD (SHAKER ROAD	89	001	58	58	95	61	48	40	36	36	0	0.00	20	062
09-001-001	1	3 GREENWIC	H FAIRFIELD	GREENWICH POINT PARK	89	001	56	56	92	61	57	48	48	44	0	0.00	21	062
09-011-000	5 1	2 GROTON	NEW LONDO!	GROTON HIGHWAY GARAGE	89	001	59	59	97	61	55	41	38	37	0	0.00	20	062
09-007-000	1	2 HADDAM	MIDDLESEX	CRIMINAL JUSTICE ACAD	89	001	58	58	95	61	51	39	36	34	0	0.00	19	062
09-003-0013	1	1 HARTFORD	HARTFORD (401 FLATBUSH AVENUE	89	001	56	56	92	61	47	47	46	44	0	0.00	231	9 062
09-003-001	1	3 HARTFORD	HARTFORD	FRANKLIN AVE. FIREHOU	89	001	58	58	95	61	63	54	52	50	0	0.00	24	062
09-003-001	5 1	1 HARTFORD	HARTFORD (HELCO, 400 SHELDON ST	89	001	59	59	97	61	65	59	54	47	0	0.00	30	062
09-003-1018	3 1	3 HARTFORD		CORNER OF SHELDON ST.			60	60	98	61	64	58	57	55	0	0.00	28	062
09-003-700	1 1	2 MANCHES	ER HARTFORD	TOWN HALL, 41 CENTER	89	001	59	59	97	61	51	50	38	36	0	0.00	21	062
09-009-400	2 1	2 MERIDEN	NEW HAVEN	STODDARD BUILDING, 16	89	001	48	48	79	61	57	50	42	42	0	0.00	23?	2 062
09-007-100	5 1	2 MIDDLETO	WN MIDDLESEX	CITY HALL, DEKOVEN DR	89	001	57	57	93	61	56	52	51	43	0	0.00	23	062
09-009-001			NEW HAVEN	EGAN CENTER		001	57	57	93	61	55	40	39	38	0	0.00	23	062
09-009-500	1 1	2 NAUGATU	K NEW HAVEN	229 CHURCH STREET	89	001	60	60	98	61	63	52	50	48	0	0.00	26	062
09-003-001	3 1	3 NEW BRIT	AI HARTFORD	NORTHEAST UTILITIES	89	001	61	60	98	61	60	54	53	45	0	0.00	24	062
09-009-001	1 1	2 NEW HAVE	N NEW HAVEN	HAMILTON AVE	89	001	59	59	97	61	62	57	50	49	0	0.00	29	062
09-009-001				FIRE HEADQUARTERS	89	001	57	57	93	61	57	43	42	42	0	0.00	25	062
09-009-001				STILES STREET	89	001	350	350	96	365	126	112	109	109	0	0.00	44	062
09-009-002	I 1	3 NEW HAVE	N NEW HAVEN	CORNER OF STILES ST	89	001	57	57	67	90	90	83	79	77	0	0.00	39?	7 062

PM-10 TOTAL 0-10UM (81102) CONNECTICUT (continued) UNITS: 001 UG/CU METER (25 C)

	P							SCHE	DULE	D							WTD	
	0 M					REP	NUM	NUM	*	NUM	MA	X I MUM	VALUES		VALS >	150	ARITH	
SITE ID	C T	CITY	COUNTY	ADDRESS	YR	ORG	OBS	OBS	OBS	REQ	15T	2ND	3RD	4TH	MEAS	EST	MEAN	METI
09-009-1123	1 2	NEW HAVEN	NEW HAVEN	715 STATE STREET	89	001	56	56	92	61	59	54	54	47	0	0.00	28	06
09-009-1123	2 3	NEW HAVEN	NEW HAVEN	715 STATE STREET	89	001	59	59	97	61	57	52	52	47	0	0.00	28	06
09-011-0009	1 3	NEW LONDON	NEW LONDON	PERKINS ST TURN-AROUN	89	001	42	42	91	46	55	39	39	37	0	0.00	223	7 06
09-001-2014	1 2	NORWALK	FAIRFIELD	I-95 AT WEST AVE	89	001	57	57	93	61	82	69	68	63	0	0.00	37	06
09-011-3002	1 2	NORWICH	NEW LONDON	22 COURT HOUSE SQUARE	89	001	60	60	98	61	54	47	45	44	0	0.00	23	06
09-007-0005	1 3	OLD SAYBRO	MIDDLESEX	I-95 NORTH BOUND	89	001	59	59	97	61	69	45	45	44	0	0.00	23	06
09-015-0002	1 2	PUTNAM	WINDHAM CO	115 CHURCH ST	89	001	59	59	97	61	50	40	39	37	0	0.00	20	06
09-001-0026	1 3	STAMFORD	FAIRFIELD	1-95 AT TRAIN STATION	89	001	5	5	33	15	48	38	36	27	0	0.00	331	? 06
09-001-8001	1 2	STAMFORD	FAIRFIELD	653 MAIN STREET	89	001	59	59	97	61	62	57	51	49	0	0.00	26	06
09-001-5005	1 2	STRATFORD	FAIRFIELD	730 MAIN STREET	89	001	60	60	98	61	57	52	46	44	0	0.00	25	06
09-005-6001	1 2	TORRINGTON	LITCHFIELD	140 MAIN STREET	89	001	60	60	98	61	48	48	44	43	0	0.00	23	06
09-011-9001			NEW LONDON		89	001	56	56	92	61	47	36	30	29	0	0.00	16	06
09-009-4006	1 2	WALLINGFOR	NEW HAVEN	45 SOUTH MAIN ST	89	001	58	58	95	61	46	45	44	37	0	0.00	22	06
09-009-2123			NEW HAVEN	MEADOW ST OFF RAMP	89	001	59	59	97	61	70	68	68	66	0	0.00	33	06
09-009-2123			NEW HAVEN	MEADOW ST OFF RAMP	89	001	56	56	92	61	71	64	63	62	. 0	0.00	32	06
09-009-3007	_		NEW HAVEN	519 EAST MAIN ST	89	001	57	57	93	61	70	60	56	55	0	0.00	27	06
09-011-1101				NEW LONDON COUNTRY CL		001	58	58	95	61	52	35	33	31	0	0.00	18	
09-009-8003				OLEANDER ST AT 1-95		001	60	60	98	61	59	50	49	47		0.00	28	
				108 VALLEY ST	-	001	60	60	98	61	45	43	41	38		0.00	21	
				TISFY SUMMARY CRITERIA	. ,	501	50	-	,,	01	7,5	70	71	50	•	5.00	- '	00

[?] INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

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SCHEDULED

WID

PI	M-10 P	TOTAL 0-10	UM (81102)			MAIN	E (cc	ntinu	-	DULE	D	UNI	TS: 00	1 UG/C	U MET	ER (25	C)	WTD	
SITE ID	0 M	CITY	COUNTY	ADDRESS		YR	REP ORG	NUM OBS	NUM			MA	XIMUM 2ND	VALUES 3RD		VALS :	150 EST	ARITH	METI
·																			
23-005-1008							001	331			365	66	64	58	57	_	0.00		
23-005-1012	-		CUMBERLAND				101		54	89	61	58	54	49	44	_	0.00		
			CUMBERLAND				101	57			61	42	39	38	37	-	0.00		
23-011-2003			KENNEBEC C				000	62	62	102	61	77	75	67	59	0	0.00	28	06
			DOES NOT SA	TISFY SUMM	IARY CRITI	ERIA	******												
PI	M-10	TOTAL 0-10	UM (81102)			MASS	ACHUS	SETTS				UNI	TS: 00	31 UG/C	U MET	ER (25	C)		
	P									EDULE	_							WTD	
	O M						REP		NUM			MA				VALS :	> 150	ARITH	
SITE ID	CT	CITY	COUNTY	ADDRESS		YR	ORG	OBS	OBS	OBS	REQ	18T	2ND	3RD	4TH	MEAS	EST	MEAN	MET
25 - 025 - 0002	1 1	BOSTON	SUFFOLK CO	KENMORE S	QUARE	89	001	50	50	82	61	55	54	53	51	0	0.00	32	7 06
25-025-0012	1 2	BOSTON	SUFFOLK CO	115 SOUTH	AMPTON S	T 89	001	57	57	93	61	58	53	48	46	0	0.00	26	06
25-025-0021	1 2	BOSTON	SUFFOLK CO	340 BREMA	N STREET	89	001	56	52	83	63	53	51	48	43	0	0.00	24	? 00
25-025-0024	1 1	BOSTON	SUFFOLK CO	200 COLUM	BUS AVEN	UE 89	001	55	55	90	61	58	54	53	52	0	0.00	30	06
25-025-0027	1 1	BOSTON	SUFFOLK CO	ONE CITY	SQUARE	89	001	58	58	95	61	78	75	65	58	0	0.00	36	06
25-005-3001	1 2	FALL RIVER	BRISTOL CO	CENTRAL F	IRE STAT	ION 89	001	66	61	100	61	54	42	37	36	0	0.00	22	06
25-017-3002	1 2	MEDFORD	MIDDLESEX	100 TO 12	O MAIN S	т 89	001	33	33	72	46	76	48	43	41	0	0.00	28	? 06
25-013-0011	2 2	SPRINGFIEL	HAMPDEN CO	59 HOWARD	STREET	89	001	56	56	92	61	60	53	46	44	0	0.00	29	06
			. HAMPDEN CO			NUE 89	001	54	54	89	61	79	58	54	52	0	0.00	31	06
25-017-1801				WATER ROV			001	60	60	98	61	49	43	34	29	0	0.00	17	06
25-015-4002	1 2	WARE	HAMPSHIRE	QUABBIN S	SUMMIT	89	001	111	61	100	61	57	45	42	37	0	0.00	15	06
			HAMPDEN CO	W. SPRING	FIELD FI	RE D 89	001	30	30	97	31	51	40	37	34	0	0.00	24	? 00
25-027-0013							001	55	55	90	61	57	53	53	38	0	0.00	25	? 06
25-027-0016			WORCESTER	2 WASHING	STON STRE	ET 89	001	59	58	95	61	58	56	53	51	0	0.00	27	06
			DOES NOT SA																

44-007-0020 1 2 PROVIDENCE PROVIDENCE ALLENS AVE

	Р							SCH	EDULE	D							WTD	
	0 M					REP	NUM	NUM	%	NUM	MA	XIMUM	VALUES		VALS	> 150	ARITH	ŀ
SITE ID	C T	CITY	COUNTY	ADDRESS	YR	ORG	OBS	OBS	OBS	REQ	157	2ND	3RD	4TH	MEAS	EST	MEAN	MET
33-013-5001	1 3	والمناوي والكافات سي ووالا الأند سم ووا الانتدائي	MERRIMACK	MT. SUNAPEE	89	001	51	51	84	61	40	38	31	30	0	0.00	14	06
33-007-0008	2 3	BERLIN	coos co	OFF HUTCHINS STREET	89	000	89	30	100	30	150	98	96	71	0	0.00	32	? 06
33-007-0014	1 0	BERLIN	coos co	LANCASTER STREET TRAI	89	902	329	61	100	61	217	145	133	133	1	1.00	40	06
33-007-0014	4 3	BERLIN	coos co	LANCASTER STREET TRAI	89	902	110	101	163	62	70	63	63	62	0	0.00	35	06
33-013-0004	1 2	CONCORD	MERRIMACK	JUNCTION RTS. 3 AND 9	89	001	61	56	92	61	98	91	90	72	0	0.00	34	06
33-011-2001	2 2	HOLLIS	HILLSBOROU	RTE. 122, SILVER LAKE	89	001	1	1	7	15	23				0	0.00	23	? 06
33-011-0015	1 1	MANCHESTER	HILLSBOROU	351 CHESTNUT STREET	89	001	57	57	93	61	47	47	44	43	0	0.00	24	06
33-011-0015	2 3	MANCHESTER	HILLSBOROU	351 CHESTNUT STREET	89	001	3	3	20	15	29	22	16		0	0.00	22	? 06
33-011-0015	3 3	MANCHESTER	HILLSBOROU	351 CHESTNUT STREET	89	001	53	53	87	61	49	47	37	36	0	0.00	19	? 06
33-011-1007				MAIN STREET	89	001	59	59	97	61	86	52	50	48	0	0.00	24	06
33-015-0009	1 2	PORTSMOUTH	ROCKINGHAM	VAUGHAN STREET	89	001	52	52	85	61	86	47	44	40	0	0.00	23	? 06
				TISFY SUMMARY CRITERIA		E ISL	AND				UNT	TS: OC)1 UG/C	U META	R (25	C)		
.,	P	TOTAL O	011 (01102)	•			,,,,,	SCH	EDULE	D	0.11.		,, 65,6		(25	٠,	WTD	
	O M					REP	NUM			_	MA	XIMUM	VALUES		VALS	> 150	ARITH	
SITE ID		CITY	COUNTY	ADDRESS	YR	ORG	OBS				151	2ND	3RD		MEAS	EST	MEAN	MET
44-007-1005	1 1	PAWTUCKET	PROVIDENCE	SUMMIT STREET	89	001	61	61	100	61	59	57	56	52	0	0.00	32	064

89 001

61 61 100

61

83

80

78

73

0.00

PM-10 TOTAL 0-10UM (81102)				V	VERMONT					UNITS: 001 UG/CU METER (25 C)							
	P				SCHEDULED WTG							WTD					
	0 M					REP	NUM	NUM	X	NUM	MA	MUMIXA	VALUES		VALS >	150	ARITH
SITE ID	C T	CITY	COUNTY	ADDRESS	YR	ORG	OĖS	OBS	OBS	REQ	1ST	2ND	3RD	4TH	MEAS	EST	MEAN METH
50-007-0007	1 2		CHITTENDEN	PROCTOR MAPLE RESEARC	89	001	51	51	84	61	37	30	29	28	0	0.00	15? 062
50-023-0003	3 0	BARRE	WASHINGTON	SOUTH SEMINARY STREET	89	001	48	48	79	61	52	46	44	42	0	0.00	24? 062
50-025-0003	2 2	BRATTLEBOR	WINDHAM CO	232 MAIN STREET	89	001	54	54	89	61	45	41	40	38	0	0.00	237 062
50-007-0003	1 1	BURLINGTON	CHITTENDEN	ADJ. TO 82 S. WINOOSK	89	001	53	53	87	61	49	43	43	42	0	0.00	26? 062
50-007-0003	2 3	BURLINGTON	CHITTENDEN	ADJ. TO 82 S. WINOOSK	89	001	27	27	87	31	43	42	42	41	0	0.00	25? 062
50-021-0002	1 2	RUTLAND	RUTLAND CO	PARKING LOT ADJ. TO 9	89	001	44	44	96	46	70	60	52	47	0	0.00	277 062
50-021-0002	2 3	RUTLAND	RUTLAND CO	PARKING LOT ADJ. TO 9	89	001	16	16	100	16	71	60	53	50	0	0.00	337 062
50-021-0004				15-19 WALES STREET		001	11	11	73	15	47	46	44	36	0	0.00	32? 062
? INDICATES	THA	T THE MEAN	DOES NOT SA	TISFY SUMMARY CRITERIA													

		PM-10 TOTAL 0-10UM (81102)	
METHODS:	CODE	COLLECTION METHOD	ANALYSIS METHOD
	====	=======================================	
	000	MULTIPLE METHODS	MULTIPLE METHODS
	062	HI-VOL-WEDDING-INLET	GRAVIMETRIC
	063	HI-VOL-SA/GMW-1200	GRAVIMETRIC
	064	HI-VOL-SA/GMW-321-B	GRAVIMETRIC

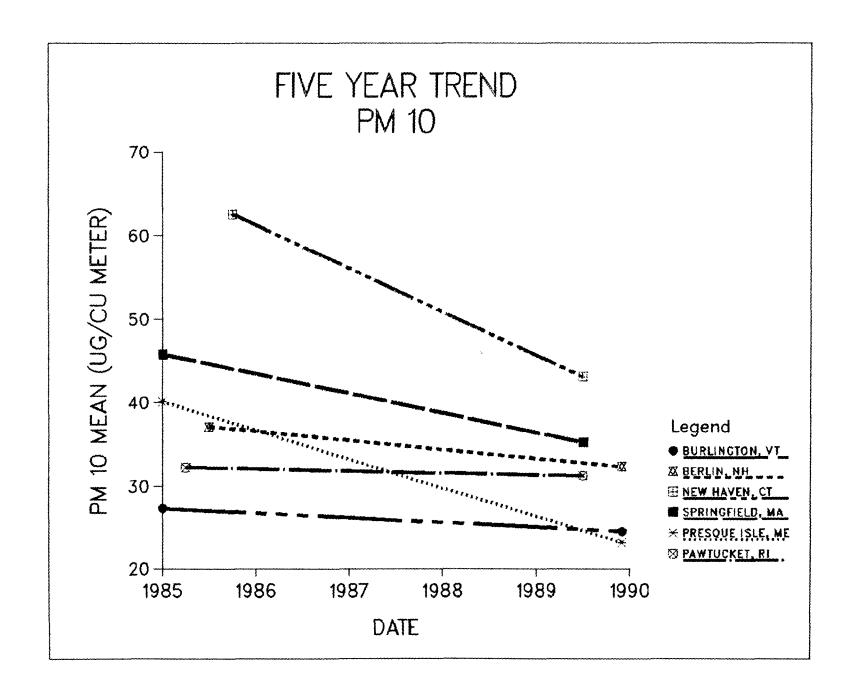


TABLE 4

NUMBER OF STATIONS VIOLATING NATIONAL AMBIENT AIR QUALITY STANDARDS IN 1989

BY AIR QUALITY CONTROL REGION

		٠	<u>PM</u> 10	Annual	co		*	so ₂		0	Pb	
AQCR	AGCR No.	State	24-hour	Mean 50ug/m	# Hour 35ppm	* 8-Hour 9ppm	* 24-Hour <u>365ug/m</u> 3		Annual Average 100ug/m ³	# 1-Hour 0.12ppm	Quarterly Average 1.5ug/m ³	
Eastern Connecticut	041	СТ	0/8	0/8			0/1	0/1		2/2		
Hartford New Haven Springfield	042	СТ	0/28	0/28	0/3	0/3	0/11	0/11	0/2	4/4	0/2	
Hartford New Haven Springfield	042	MA	0/4	0/4	0/2	0/2	0/3	0/3	0/2	2/4	0/2	
New Jersey New York Connecticut	043	CT	0/10	0/10	0/2	0/2	0/6	0/6	0/1	4/4		
Northwestern Connecticut	044	СТ	0/2	0/2	•••		•••	•••			•••	
Androscoggin Valley	107	ME	0/10	0/10			0/6	0/7		0/3	0/2	
Androscoggin Valley	107	NH	0/2	0/2			0/4	0/4			•••	
Aroostook	108	ME	0/4	0/4			0/3	0/3		0/1		
Down East	109	ME	0/11	0/11		•••	0/4	0/4		0/2	0/1	
Metropolitan Portland	110	ME	0/8	0/8	0/1	0/1	0/2	0/2	•••	2/2	0/3	

^{*} Unless the second highest average exceeds the NAAQS, there is no violation.

x/y: x is the number of stations in violation, y is the number of stations reporting data for time period.

--- This pollutant is not monitored in the AQCR (state portion).

TABLE 4 (Continued)

NUMBER OF STATIONS VIOLATING NATIONAL AMBIENT AIR QUALITY STANDARDS IN 1988
BY AIR QUALITY CONTROL REGION

			PM10—Annual		CO		<u>so</u> 2_		<u>NO</u> 2	<u>0</u> 3	Pb	
AQCR	AQCR No. State		24-hour	Annual Arithmetic Mean 50ug/m ³	* Hour 35ppm		* 24-Hour 365ug/m ³	Annual Average 80ug/m ³	Annual Average 100ug/m ³	* 1-Hour 0.12ppm	Quarterly Average 1.5ug/m ³	
Northwest Maine	111	ME					•••					
Berkshire	117	MA						•••		0/1		
Central Massachusetts	118	MA	0/2	0/2	0/1	0/1	0/2	0/2	0/1	0/1		
Metropolitan Boston	119	MA	0/7	0/7	0/3	0/3	0/4	0/4	0/3	0/3	0/2	
Metropolitan Providence	120	MA	0/1	0/1			0/1	0/1		2/4	•••	
Metropolitan Providence	120	RI	0/2	0/2	0/2	0/2	0/3	0/3	0/1	1/2	0/4	
Merrimack Valley	121	MA	•••		0/1	0/1	0/1	0/1		0/2		
Merrimack Valley	121	NH	0/6	0/6	0/3	0/3	0/9	0/9	0/1	1/5	0/7	
Central New Hampshire	149	NH								•••		
Champlain Valley	159	VT	0/4	0/4	0/1	0/1	0/2	0/2	0/2	0/1	0/3	
Vermont	221	VT	0/2	0/2			* = =			0/1	0/1	

^{*} Unless the second highest average exceeds the NAAQS, there is no violation. x/y: x is the number of stations in violation, y is the number of stations reporting data for time period. --- This pollutant is not monitored in the AQCR (state portion).

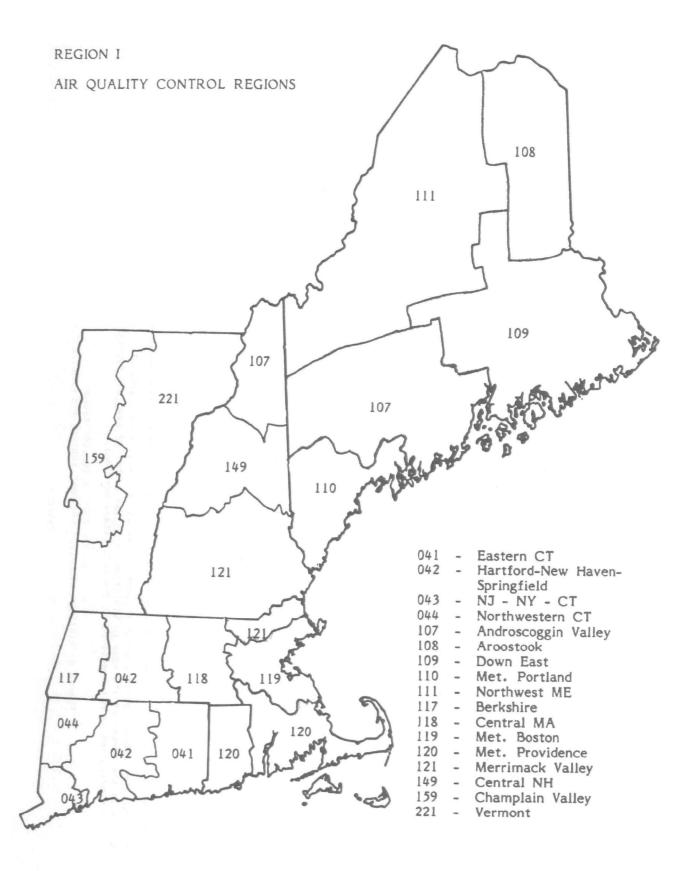


TABLE 5

STATIONS WHERE READINGS EXCEPTED EPISODE LEVELS

January-December 1989 PM₁₀

					10			
				City			Hi	ghest Level
	Standard	<u>State</u>	AQCR	(Address)	Site No.	Mo./Day	Duration	Reached
	Emergency	N T						
	24-hour avg. 500 ug/m ³	MODE						
	500 tag/m							
	Warning							
	24-hour avg.	Nane						
	420 ug/m ³							
	33 and							
F	Alert 24-hour avg.	None						
	350 ug/m ³	IME						
				January-	-December 19	89		
					gen Dioxide			
				air.			ui	aboat Tarni
	Standard	State	MOD	City (Address)	Site No.	Mo./Day	Duration	ghest Level Reached
	Emergency	state	<u> Aur</u>	(Autes)	DICE NO.	PD-/Luy	<u> </u>	- TRUCKE
	1.6ppm - 1-h	our avq.	Non	e				
	0.4ppm - 24-							
	Warning		37	_				
	1.2ppm - 1-h 0.3ppm - 24-			e				
	0.5pm - 24	ikat uv	•					
	Alert							
	0.6ppm - 1-h			e				
	0.15ppm - 24	-hour a	∕g.	T	D	200		
					-December 19 on Monoxide	18 9		
				Call				
				City				ghest Level
	<u>Standard</u>	State	AQCR	(Address)	Site No.	Mo./Day	Duration	Reached
	Emergency	37						
	8-hour avg.	None						
	46 mg/m ³							
	Warning							
	8-hour avg.	Nane						
r	34 mg/m ³							
	33 - -							
-	Alert	None						
1	8-hour avg. 17 mg/m ³	ME						
ŧ	T, 11-7/111							

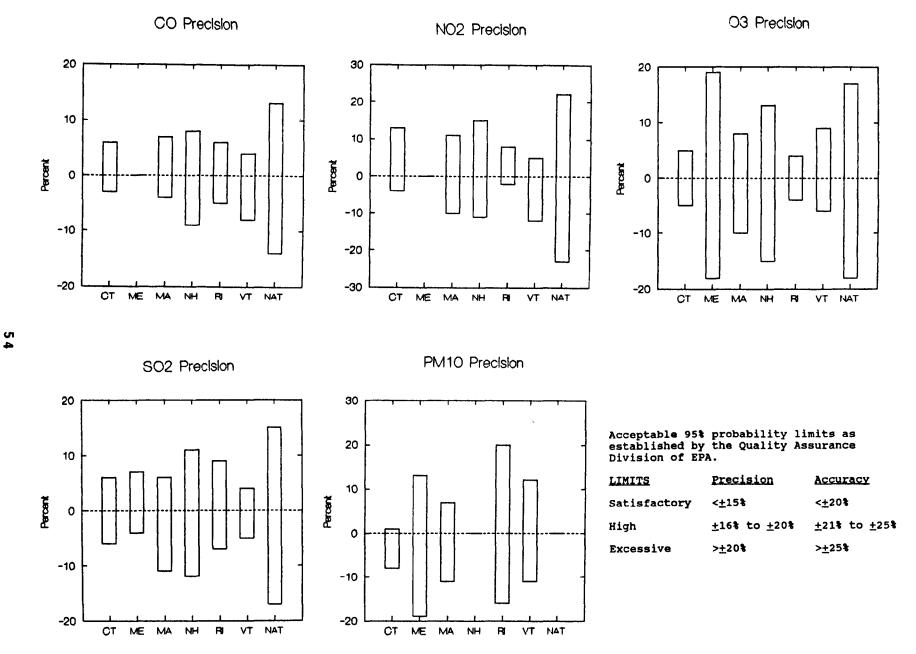
TABLE 5 (Continued)

STATIONS WHERE READINGS EXCEPDED EPISODE LEVELS January-December 1989 Sulfur Dioxide

			City			Hig	ghest Level
Standard	State	ACCR	(Address)	Site No.	Mo./Day	Duration	Reached
Emergency 3-hour avg. 2100 ug/m ³							
Warning 3-hour avg. 1600 ug/m³	None						
Alert 3-hour avg. 800 ug/m³	Nane						

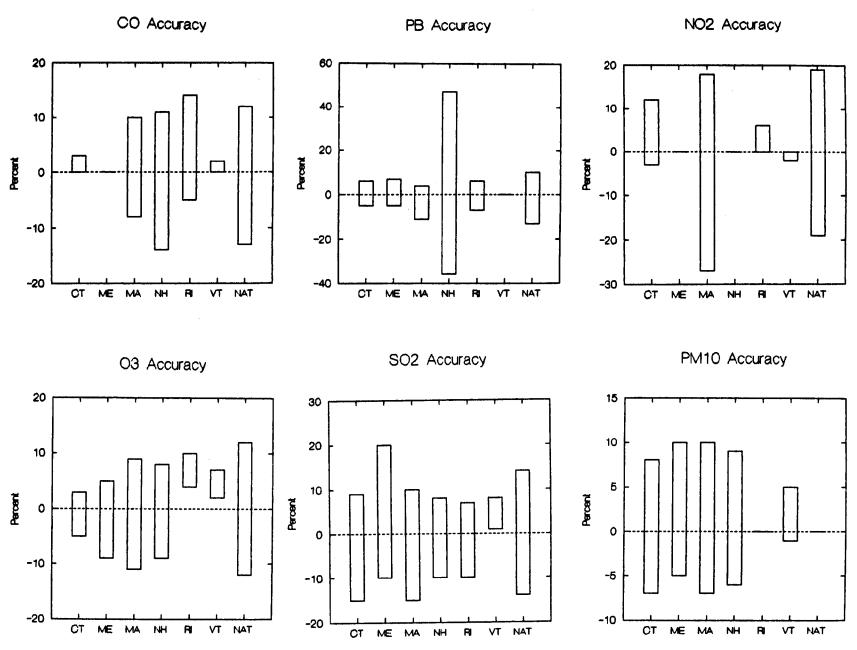
January-December 1989 Ozone

City Highest Level State ACCR (Address) Site No. Mo./Day/Time Reached Duration Energency 1-hour avg. None 0.5 ppm Warning 1-hour avg. None 0.4 ppm Alert **043** Stratford 09-001-3007 1-hour avg. CT 7/25/15 0.202ppm 1 hour 0.2 ppm



1989 PRECISION DATA FOR NEW ENGLAND: ANNUAL AVERAGE PROBABILITY LIMITS IN PERCENT

TABLE 7



1989 ACCURACY DATA FOR NEW ENGLAND ANNUAL AVERAGE PROBABILITY LIMITS
FOR LOWEST CONCENTRATION (CONTINUOUS METHODS),
FLOW RATE (PM10), AND ANALYSIS (Pb) REPORTED IN PERCENT

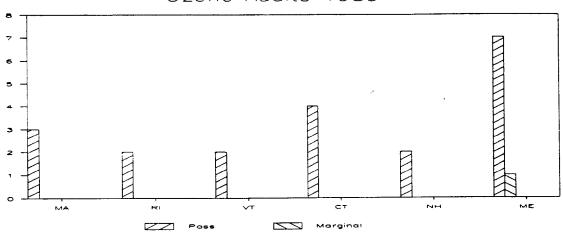
Region I 1989 Performance Audit Program

Region I conducts an audit program to assess the performance of Ambient Air Monitoring networks and provides operators of these systems with technical assistance to maintain and improve overall data quality. Procedures used in auditing continuous air monitoring sites are explained in Volume II, Section 2.0 of the U.S. EPA Quality Assurance Handbook. These performance audits are conducted by the EPA Region I Ambient Air and Emissions Monitoring Section in Lexington.

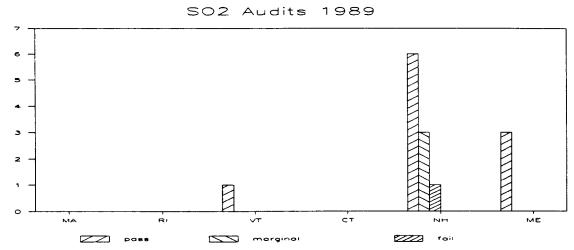
A total of 48 audits were conducted in the six New England States on instruments that measure Ozone, Sulfur Dioxide, and Particulate Matter. 1989 was a year of equipment problems. The Roots meter for measuring PM10 was inoperable as well as depleted SO2 Reim tubes.

Of the 20 Ozone Audits conducted, 19 passed, 1 was marginal, and none failed.

Ozone Audits 1989



14 SO2 audits were conducted in 1988; of these 10 passed, 3 were marginal, and 1 failed.



6 Particulate Audits were conducted, of which: 1 passed, 2 were marginal, and 3 failed.

TABLE 9

REGION I NONATTAINMENT AREAS AS OF DECEMBER 31,1989

All values listed are the second highest values reported.

(Except exceedence only)

Only data currently in the EPA system are listed.

	Date and Magnitude of Ias Reported Violation to NAV			
CONNECTICUT				
- Primary 8-hour Standard for CO				
AQCR 42 (Exceedence only)	1989	9.6 ppm		
AQCR 43 (Exceedence only)	1986	10.9 ppm		
- Primary 1-hour Standard for O ₃				
AQCR 41	1989	0.142 ppm		
AQCR 42	1989	0.167 ppm		
AQCR 43	1989	0.175 ppm		
AQCR 44	1980	0.211 ppm		
-Primary 24-hour Standard for FM ₁₀ * AQCR 42 New Haven	1987	202 ug/m ³		
		2 - 2 3/		
MATNE				
- Primary 24-hour Standard for SO ₂				
AQCR 109 Millinocket	1980	548 ug/m ³		
- Primary 1-hour Standard for O ₃				
AQCR 107 (Exceedence only)	1989	0.134 ppm		
AQCR 110	1989	0.147 ppm		
-Primary 24-hour Standard for PM ₁₀ *		3		
AQCR 108	1987	172 ug/m ³		
<u>MASSACHUSETTS</u>				
- Primary 8-hour Standard for CO				
AQCR 042 Springfield (Exceedence only)	1987	9.5 ppm		
AQCR 118 Worcester (Exceedence only) AQCR 119	1986	14.5 ppm		
Boston	1986	9.8 ppm		
Cambridge	1978	9.5 ppm		
Medford	1980	10.6 ppm		
Quincy	1977	9.5 ppm		
Waltham	1978	11.5 ppm		
AQCR 121 Lowell	1984	11.1 ppm		

^{*} Group 1 area - not technically a nonattainment area.

TABLE 9 (Continued) REGION I NONATTAINMENT AREAS AS OF DECEMBER 31,1989

MASSACHUSETTS		
- Primary 1-hour Standard for 03		
AQCR 042	1989	0.133 ppm
AQCR 117	1983	0.135 ppm
AQCR 118 (Exceedence only)	1989	0.127 ppm
AQCR 119	1988	0.169 ppm
AQCR 120	1989	0.132 ppm
AQCR 121	1988	0.159 ppm
NEW HAMPSHIRE		
- Primary 8-hour Standard for CO		
AQCR 121	1007	
City of Manchester	1987	10.3 ppm
Nashua	1986	10.3 ppm
- Primary 1-hour Standard for 03		
AQCR 121	1989	0.140 ppm
ASCA 121	1303	O.T.40 bbu
RHODE ISLAND		
- Primary 8-hour Standard for CO		
AQCR 120 Providence (Exceedence only)	1986	9.5 ppm
~ **		
- Primary 1-hour Standard for 03	,	
AQCR 120	1988	0.168 ppm

TABLE 10

REGION I ATTAINMENT AND UNCLASSIFIED AREAS AS OF DECEMBER 31, 1989, WITH VIOLATIONS IN THE LAST THREE YEARS

		Magnitude of Last Violation to NAAQS
MAINE - Primary 1-hour Standard for 03 AQCR 109	1988	0.153 ppm
NEW HAMPSHIRE - Primary PM ₁₀ Standard AQCR 107 (Exceedence only)	1989	217 ug/m3
VERMONT - Primary 1-hour Standard for O ₃ AQCR 221	1988	0.125 ppm

AIR QUALITY SUMMARIES AND TRENDS

The next several pages contain a discussion of the air quality for each of the New England States. The data for these analyses were collected by the New England States and were submitted to EPA in fulfillment of the Federal monitoring requirements.

1989 CONNECTICUT AMBIENT AIR QUALITY SUMMARY

PM₁₀

There were no violations of the NAAQS for PM_{10} reported in Connecticut in 1989. The highest 24-hour monitored concentration was reported at 5 Styles Street in New Haven at 126 ug/m³, or 84% of the standard. That same site had an annual average PM_{10} concentration of 44 ug/m³, or 88% of the NAAQS. Both these values are lower than their respective 1988 concentrations. All other sites in Connecticut are well below the NAAQS.

Pb

There were no violations of the NAAQS reporting in 1989. In general, lead levels are lower than those reported in the last five years, and less than 2% of the lead standard.

CO

There were no exceedences of the 1 hour NAAQS reported in 1989. Hartford reported one exceedence of the 8-hour NAAQS in 1989. The highest CO level reported was 107% of the NAAQS, which is an improvement over the 1988 levels.

80,

There were no violations or exceedences of the NAAQS reported in 1989. The maximum SO₂ annual averages occurred in New Haven at 51% of the standard. The highest second-high 24-hour average occurred in New Haven at 70% of the NAAQS.

NO2

The NO₂ sites in Bridgeport, East Hartford and New Haven reported values of 52%, 40% and 56% of the annual standard, respectively. These values are generally in line with those reported in the last five years.

٥,

Every site in Connecticut measured violations of the ozone NAAQS in 1989. The highest second high daily maximum reading during 1989 was 0.175 ppm, which occurred in Stratford. Ozone levels were much lower in 1989 compared to 1988, probably due to meteorological factors.

1989 MAINE AMBIENT AIR QUALITY SUMMARY

PM₁₀

Of the thirty-three PM_{10} sites in operation, the Presque Isle region produced the two highest values. A value of 144 ug/m³ at the Northeastland Hotel site and a 142 at 507 Main Street. These did not exceed the PM_{10} 24-hr NAAQS, since values are first rounded to the nearest 10 ug/m³ before comparison to the standard of 150 ug/m³. The highest valid arithmetic mean, 33 ug/m³, for PM_{10} was reported in Madawaska.

Pb

There were no violations of the quarterly lead NAAQS at any of the six sites in the state. The highest daily concentration measured statewide was in Biddeford, at 0.82 ug/m^3 , which was nearly twice as high as the 1988 maximum daily value. Quarterly averages were generally lower in 1989 than in 1988 and for the most part continue the five year downward statewide trend for this pollutant.

CO

The only CO monitoring site in the state for 1989 was located in Portland. This site was shutdown in early 1989 due to loss of the lease on the site. A new "background" CO site was opened in Hancock County in early 1990.

SO,

There were no violations or exceedances of the standard at any of the fifteen sites in 1989. The highest annual arithmetic mean was in Rumford, at 32 ug/m^3 or 40% of the standard. The highest 24-hour average was in Madawaska, at 158 ug/m^3 or 43% of the standard.

NO,

The State of Maine is not required to monitor NO2.

03

Of the eight sites in operation in Maine, four had violations or exceedances of the NAAQS. Highest numbers of exceedances were at the Cape Elizabeth and Ocean Avenue sites with 3 exceedances each. The highest hourly ozone value was recorded was at the Ocean Avenue site, and was 0.154 ppm or 128% of the standard.

1989 MASSACHUSETTS AMBIENT AIR QUALITY SUMMARY

TSP/PM₁₀

Four out of 24 sites reporting TSP data in Massachusetts, would have exceeded the now defunct TSP NAAQS in 1989. Sites in Watertown, Medford, Boston and Charlestown experienced high TSP values for at least one day in 1989. Massachusetts personnel attribute all these high TSP values to nearby road construction or high pollen levels on May 22, 1989. PM₁₀ levels across the state were well below the PM₁₀ annual and the 24-hour NAAQS. The highest 24-hour PM₁₀ levels measured in Massachusetts were recorded at East Columbus Avenue site in Springfield and the City Square site in Charlestown. The values, 79 and 78 ug/m³, respectively were less than 53% of the 24-hour standard. The highest arithmetic mean, 36 ug/m³, (72% of the standard) was recorded at the Charlestown site.

Pb

Routine monitoring for lead began in 1982 with sites established in Boston, Lowell, Springfield and Worcester. For 1989 lead monitoring is only conducted in Springfield and Boston since lead levels have dropped off drastically. No violations of the quarterly lead NAAQS have been reported from the present network to date. Maximum quarterly lead levels have steadily decreased at all sites since 1982. The site with the highest values in the State was the Kenmore Square Site in Boston with a maximum quarterly average of 5% of the NAAQS. Maximum quarterly lead levels from other sites in the state ranged from 2% to 4% of the NAAQS.

CO

No exceedences of the 1-hour or 24-hour NAAQS were reported at the seven sites which monitored CO in the State for 1989. The highest second maximum 1-hour average for the State in 1989 was measured at the Central Street Fire Station in Worcester, at 40% of the 1-hour NAAQS. The highest second maximum 8-hour average for the State was also measured at the Central Street Fire Station in Worcester, at 88% of the NAAQS. 1989 is the second year in a row in Massachusetts CO monitoring history that no site in the state recorded an exceedence of the NAAQS.

802

There were no violations of the NAAQS at any of the eleven sites which reported SO₂ data for 1989 in Massachusetts. Maximum SO₂ levels for Massachusetts on an annual basis were reported in Boston at the Kenmore Square site at 48% of the the annual NAAQS. The Kenmore Square site has reported the maximum annual average in the state every year since the site began SO₂ monitoring in 1971. Minimum SO₂ levels on an annual basis were measured in Ware at 16% of the NAAQS. The highest second maximum daily SO₂ level was reported in Springfield at 40% of the NAAQS, while the highest second maximum three hour SO₂ level was reported in Fall River.

NO,

In 1989, six sites collected NO_2 data in Massachusetts. The maximum sites in the State were located in Kenmore Square, Boston, and Brennan Street, East Boston where the annual means were 32% of the NAAQS. NO_2 levels in in other large cities such as Springfield, Worcester and Chelsea, ranged from 26% to 30% of the annual standard. Minimum NO_2 levels were reported for the Quabbin site in Ware at 8% of the standard.

O٦

As in past years, ozone standard exceedences were reported at multiple sites in Massachusetts for 1989. Exceedences were recorded at seven of the fifteen sites which operated in 1989. The maximum daily value for 1988 in Massachusetts was recorded at the Quabbin Reservoir site in Ware with a value of 0.168 ppm or 134% of the NAAQS. The Truro site on Cape Cod reported the most days over the standard for 1989, with 4 days in excess of the NAAQS. The Maximum levels decreased by 20% over 1988 levels and the maximum number of days over the standard decreased by 76% due in part to the relatively cooler 1989 summer temperatures as compared to the hotter 1988 summer season.

1989 NEW HAMPSHIRE AMBIENT AIR QUALITY SUMMARY

TSP/PM.

New Hampshire would have had a violation of the now defunct TSP NAAQS in 1989. This occurred at the Lancaster Street site in Berlin. There were several violations of the now defunct secondary 24-hour NAAQS in Berlin, also at the same site. Several other sites in New Hampshire recorded one or more exceedence of the 'old' TSP 24-hour standard; in Concord, Portsmouth and Dover. For PM₁₀, none of the eight sites in operation in New Hampshire violated the PM₁₀ NAAQS. The Lancaster Street site in Berlin, however, recorded an exceedence of 217 ug/m³, 145% of the primary 24-hour standard. The second highest value at this site, 145 ug/m³ was just below the standard of 150 ug/m³. The second maximum 24 hour value for other areas in New Hampshire varied from a high of 61% of the standard in Concord to a low of 25% of the standard at Mt. Sunapee. The highest arithmetic mean was recorded in Berlin at 80% of the standard and the lowest at Mt. Sunapee at 28% of the standard.

Pb

There were no lead violations reported in 1989 at the seven sites which monitor this pollutant in New Hampshire. The highest site—a neighborhood scale site in Portsmouth—reported a maximum quarterly average which was 3% of the NAAQS. The lowest site in the state, which is located in Hollis, had a maximum quarterly average of 1% of the standard.

CO

No violations of the 1-hour, or the 8-hour NAAQS were reported in 1989; as compared to one reported exceedence of the 8-hour standard in 1988. The maximum 8-hour concentration reported for 1989 in New Hampshire was from Manchester at 80% of the standard. This was the first year since CO monitoring was started in New Hampshire in 1973, that no exceedences of the CO standard were measured in the state.

80,

No violations of the NAAQS were monitored at any of the thirteen sites which monitored SO₂ in 1989. The last violation measured in New Hampshire occurred in 1980 at a site in Berlin. The maximum daily value for 1989 was measured in Pembroke at 62% of the 24-hour standard. The maximum annual mean in the state was measured in Manchester at 30% of the standard for 1989.

Only one site in Manchester collected NO₂ data in 1989. NO₂ values at this site were 44% of the annual standard.

Just one of the five ozone sites which collected data in 1989 exceeded the ozone standard. The Rye Harbor location recorded ozone values in excess of the standard on two separate days with ozone levels 132% and 112% of the standard. This contrasts with the summer of 1988 in which all five sites in New Hampshire recorded exceedences of the standard and Rye Harbor recorded 9 days in excess of the standard.

1989 RHODE ISLAND AMBIENT AIR QUALITY SUMMARY

 PM_{10}

Of the two PM_{10} sites in operation, none produced any violations or exceedances of the NAAQS. The highest 24-hour value recorded was in Providence at 83 ug/m³, or 55% of the standard.

Pb

None of the four sites recorded any Calendar Quarter Arithmetic Mean values approaching the standard of 1.5 ug/m^3 . The highest value recorded was 0.87 ug/m^3 at the Dyer Street trailer in Providence, or 58% of the standard.

CO

Neither of the two CO sites experienced any violations of either the 1-hour or 8-hour standards (the last exceedance of the 8-hour standard occurred in 1986). The highest 1-hour value occurred at the Dept. of Health Building in Providence, and was 14.5 ppm, or 41% of the standard. The highest 8-hour value occurred at the same site and was 8.4 ppm, or 93% of the standard.

SO₂

No violations of the NAAQS have been reported for the past eight years. The highest level recorded was measured at both the Dorrance Street site Providence and at the Summit Street site in Pawtucket, a value of 135 ug/m³, or 37% of the standard.

NO,

The sole NO₂ site at the Rockefeller Library in Providence experienced no violations. The Annual Arithmetic Mean was only 0.024 ppm, or 45% of the standard.

The second highest daily value reported was on the Alton Jones campus in Kent County, and was 0.132 ppm, or 10% above the standard. This is significantly lower than the second highest value for 1987 and 1988. The Rockefeller Library site in Providence experienced no violations or exceedances, with a highest value of 0.107 ppm, or 89% of the standard.

1989 VERMONT AMBIENT AIR QUALITY SUMMARY

TSP/PM..

Of the five PM_{10} sites in operation, none produced any violations or exceedances of the NAAQS. The highest value recorded was in Rutland, and was only 71 ug/m³ or 47% of the NAAQS.

Neither of the two TSP sites in Vermont (Burlington and Bennington) would have registered a violation of the (now defunct) standards. The highest value in the state was recorded at Barre, with an annual geometric mean of 37 ug/m3 and a second highest 24-hr value of 81 ug/m³.

Pb

None of the three sites in Vermont (Burlington, Rutland and Barre) experienced any violations of the NAAQS for lead. The highest reading recorded, in Barre, was $0.10~\text{ug/m}^3$, or 7% of the standard.

CO

The only CO monitoring site in the state is currently located in Burlington. There were no violations of either the 1-hour or 8-hour standards. The maximum 1-hour value measured was 9.7 ppm, or 28% of the standard. The maximum 8-hour measurement was 5.4 ppm, or 60% of the standard. Both maxima were marginally higher than in 1988.

so,

There were no violations or exceedances of the standard in 1988 at either of the two SO_2 sites. The highest annual arithmetic mean was at Rutland, at 27 ug/m³ or 34% of the standard. The highest 24-hour value, also in Rutland, was 103 ug/m³ or 28% of the standard. Lastly, the highest 3-hour average was in Burlington at 258 ug/m³, or 20% of the standard.

NO,

Neither of the two NO₂ sites in Vermont, located at Burlington and Rutland, experienced any violation of the standard of 0.053 ppm. They registered annual arithmetic means of 0.019 ppm, or 38% of the standard and 0.015 ppm, or 30% of the standard, respectively. Values in Burlington have remained essentially constant over the past 3 years. This, the second year of monitoring for Rutland, produced the same value as in 1988.

Neither of the two sites in operation in Vermont registered a violation of the NAAQS. The highest value at Burlington was 0.106 ppm, or 88% of the standard. The highest value at Bennington was 0.091 ppm, or 76% of the standard. Both high values were significantly lower than in 1988.

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