

United States
Environmental Protection
Agency

Region I
New England Regional Laboratory
Lexington, MA 02173

July 1988

Air

1987 Annual Report on Air Quality in New England



July 1988

TABLE OF CONTENTS

| | |
|--|----|
| INTRODUCTION..... | 1 |
| NATIONAL AIR QUALITY STANDARDS..... | 3 |
| 1987 SUMMARY OF NEW ENGLAND NAMS/SLAMS. (TABLE 1)..... | 4 |
| NUMBER OF STATIONS VIOLATING NATIONAL AIR QUALITY STANDARDS. (TABLE 2)..... | 5 |
| ABBREVIATIONS AND SYMBOLS USED IN TABLE 3..... | 6 |
| AMBIENT AIR QUALITY DATA INCLUDING STATIONS THAT EXCEED NATIONAL AIR QUALITY STANDARDS. (TABLE 3)..... | 8 |
| NUMBER OF STATIONS VIOLATING NATIONAL AMBIENT AIR QUALITY STANDARDS BY AIR QUALITY CONTROL REGION. (TABLE 4)..... | 31 |
| AIR QUALITY CONTROL REGIONS..... | 33 |
| STATIONS WHERE READINGS EXCEED EPISODE LEVELS. (TABLE 5)..... | 34 |
| 1987 PRECISION AND ACCURACY DATA..... | 36 |
| 1987 PRECISION DATA FOR NEW ENGLAND ANNUAL AVERAGE PROBABILITY LIMITS. (TABLE 6)..... | 37 |
| 1987 ACCURACY DATA FOR NEW ENGLAND ANNUAL AVERAGE PROBABILITY LIMITS. (TABLE 7)..... | 38 |
| REGION I 1987 PERFORMANCE AUDIT PROGRAM..... | 39 |
| REGION I PERFORMANCE AUDIT PROGRAM. (TABLE 8)..... | 40 |
| REGION I NONATTAINMENT AREAS. (TABLE 9)..... | 41 |
| REGION I ATTAINMENT AND UNCLASSIFIED AREAS AS OF DECEMBER 31, 1987. (TABLE 10)..... | 44 |
| AIR QUALITY SUMMARIES AND TRENDS..... | 46 |
| 1987 CONNECTICUT AMBIENT AIR QUALITY SUMMARY..... | 46 |
| 1987 MAINE AMBIENT AIR QUALITY SUMMARY..... | 47 |
| 1987 MASSACHUSETTS AMBIENT AIR QUALITY SUMMARY..... | 48 |
| 1987 NEW HAMPSHIRE AMBIENT AIR QUALITY SUMMARY..... | 50 |
| 1987 RHODE ISLAND AMBIENT AIR QUALITY SUMMARY..... | 51 |
| 1987 VERMONT AMBIENT AIR QUALITY SUMMARY..... | 52 |
| 1987 FIVE YEAR TRENDS..... | 53 |

1987 ANNUAL REPORT ON AIR QUALITY
IN NEW ENGLAND

This report represents 1987 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 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 has 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.

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.

Table 2 shows the number of stations violating the National Ambient Air Quality Standards (NAAQS) and the total number of stations reporting data during 1987. There were no stations in violation of the SO₂ standards. For particulates, three stations were in violation of the 24 hour primary standard, and 20 stations were in violation of the 24 hour secondary standard. The annual primary standard was violated at six stations. Two stations were in violation of the CO 8-hour primary standard, and no stations were in violation of the 1-hour primary standard. For ozone, there were 21 stations in violation of the 1-hour primary standard. No stations violated the NO₂ annual primary standard. No stations violated the quarterly mean for lead.

Table 3 lists every state site in New England. 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 (geometric mean for TSP, arithmetic mean or average for SO₂, PM₁₀ and NO₂). Those stations reporting a maximum above the standard, but a second high below the standard are included in this table. For intermittent data, an annual mean is not valid unless there are four valid quarters. To be considered valid for TSP, a quarter must have at least five values; and if any one month is missing, each of the other two months must have two or more values. For PM₁₀, 75% of the scheduled samples must be available for a quarter to be validated. For continuous data, 75 percent of the year must be available to calculate a valid annual average.

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 (Figure 1).

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 CO at one site.

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.

Table 8 lists the results from the Region I audit program for TSP, SO₂, CO, NO₂, PM₁₀ and O₃. 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. This discussion includes several charts of selected air quality monitoring sites which show a linear regression for TSP, Pb, CO, CO₂, and NO₂ during the last five years. For ozone, a chart of the number of days exceeding the standard each year for the last five years is used.

NATIONAL AIR QUALITY STANDARDS^a

| <u>Pollutant</u> | <u>Averaging Time</u> | <u>Primary Standards^b</u> | <u>Secondary Standards^c</u> |
|-------------------------------|----------------------------------|--------------------------------------|--|
| SO ₂ | Annual Arithmetic Mean | 80 ug/m ³ (0.03 ppm) | |
| | 24 hours | 365 ug/m ³ (0.14 ppm) | |
| | 3 hours | — | 1300 ug/m ³ (0.5 ppm) |
| TSP | Annual Geometric Mean | 75 ug/m ³ | 60 ug/m ³ |
| | 24 hours | 260 ug/m ³ | 150 ug/m ³ |
| PM ₁₀ ^d | Annual Arithmetic Mean | 50 ug/m ³ | Same as Primary Standard |
| | 24 hours | 150 ug/m ³ | Same as Primary Standard |
| CO | 8 hours | 9 ppm | Same as Primary Standard |
| | 1 hour | 35 ppm | Same as Primary Standard |
| O ₃ | 1 hour | 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 or annual geometric 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.

^d 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.

TABLE 1

1987 SUMMARY OF NEW ENGLAND NAMS/SLAMS

| | <u>CT</u> | <u>ME</u> | <u>MA</u> | <u>NH</u> | <u>RI</u> | <u>VT</u> | <u>TOTALS</u> |
|--|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| <u>NAMS^a</u> | | | | | | | |
| <u>Number Operating^c</u> | 36/36 | 3/3 | 41/41 | 3/3 | 14/14 | 2/2 | 66/66 |
| Number NOT meet- ing EPA's minimum data capture <u>requirements^d</u> | 1 | 0 | 4 | 0 | 0 | 0 | 19 |
| <u>SLAMS^b</u> | | | | | | | |
| <u>Number Operating^c</u> | 66/66 | 15/15 | 16/16 | 32/32 | 10/10 | 11/11 | 154/154 |
| Number NOT meet- ing EPA's minimum data capture <u>requirements^d</u> | 1 | 0 | 0 | 2 | 0 | 0 | 17 |
| <u>NAMS/SLAMS</u> | | | | | | | |
| Percent of required: | | | | | | | |
| <u>Precision Data</u> | 100 | 100 | 100 | 100 | 100 | 100 | |
| <u>Accuracy Data</u> | 100 | 100 | 100 | 100 | 100 | 100 | |

^a NAMS - National Air Monitoring Sites

^b SLAMS - State/Local air Monitoring Sites

^c x/y - x is the number of sites operating

y is the total number of sites required to be operated

^d Adjusted for seasonal monitoring and site start-ups and terminations

TABLE 2
NUMBER OF STATIONS VIOLATING
NATIONAL AMBIENT AIR QUALITY STANDARDS

| <u>Standard</u> | | | <u>CT</u> | <u>ME</u> | <u>MA</u> | <u>NH</u> | <u>RI</u> | <u>VT</u> |
|------------------------|--------------------|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| <u>SO₂</u> | Annual Primary | 80 ug/m ³ | 0/20 | 0/18 | 0/11 | 0/14 | 0/3 | 0/3 |
| | 24-hour Primary* | 365 ug/m ³ | 0/20 | 0/18 | 0/11 | 0/14 | 0/3 | 0/3 |
| | 3-hour Secondary* | 1300 ug/m ³ | | | | | 0/3 | |
| <u>TSP (1)</u> | Annual Primary | 75 ug/m ³ | 0/47 | 0/50 | 3/20 | 1/21 | 0/12 | 0/6 |
| | 24-hour Primary* | 260 ug/m ³ | 0/47 | 1/50 | 1/20 | 0/21 | 0/12 | 0/6 |
| | 24-hour Secondary* | 150 ug/m ³ | 2/47 | 13/50 | 3/20 | 1/21 | 1/12 | 1/6 |
| <u>PM₁₀</u> | Annual Primary | 50 ug/m ³ | 1/4 | 0/13 | 0/7 | 0/3 | 0/2 | 0/4 |
| | 24-hour Primary | 150 ug/m ³ | 1/4 | 1/13 | 0/7 | 0/3 | 0/2 | 0/4 |
| <u>CO</u> | 8-hour Primary* | 9 ppm | 1/5 | 0/1 | 0/8 | 1/2 | 0/2 | 0/1 |
| | 1-hour Primary* | 35 ppm | 0/5 | 0/1 | 0/8 | 0/2 | 0/2 | 0/1 |
| <u>O₃</u> | 1-hour Primary* | 0.12 ppm | 9/10 | 5/10 | 3/14 | 1/6 | 2/2 | 0/2 |
| <u>NO₂</u> | Annual Primary | 100 ug/m ³ | 0/4 | 0/0 | 0/6 | 0/1 | 0/1 | 0/1 |
| <u>Pb</u> | Quarterly Mean | 1.5 ug/m ³ | 0/47 | 0/5 | 0/6 | 0/8 | 0/5 | 0/0 |

*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.

(1) Includes special study monitoring sites which do not meet TSP siting criteria

TABLE 3

ABBREVIATIONS AND SYMBOLS USED IN TABLE 3

| | | |
|------------------------|-----|--|
| SITE I.D. | | Site Identification number |
| POC | | Parameter Occurrence Code - differentiates between monitors for a given pollutant |
| #OBS | | Number of Observations |
| MAX 24-HR: | | |
| | 1ST | Highest 24-hour value recorded in the year |
| | 2ND | Second highest 24-hour value recorded in the year |
| OBS > 260 | | Number of 24-hour values greater than 260 $\mu\text{g}/\text{m}^3$ for TSP |
| OBS > 150 | | Number of 24-hour values greater than 150 $\mu\text{g}/\text{m}^3$ for TSP |
| ARITH MEAN | | Arithmetic mean |
| GEO MEAN | | Geometric mean |
| GEO STD | | Geometric standard deviation |
| QUARTERLY ARITH MEANS: | | |
| | 1ST | First quarter arithmetic mean |
| | 2ND | Second quarter arithmetic mean |
| | 3RD | Third quarter arithmetic mean |
| | 4TH | Fourth quarter arithmetic mean |
| MEANS > 1.5 | | Number of quarterly means greater than 1.5 $\mu\text{g}/\text{m}^3$ for lead |
| MAX VALUES: | | |
| | 1ST | Highest 24-hour value recorded for the year (except Connecticut and New Hampshire, which are monthly values). |
| | 2ND | Second highest 24-hour value recorded for the year (except Connecticut and New Hampshire, which are monthly values). |
| METH | | Method |
| 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 mg/m ³ 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 averages greater than 9 ppm for CO |
| OBS > 365 | Number of 24-hour averages greater than 365 ug/m ³ for SO ₂ |
| 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 averages greater than 1300 ug/m ³ for SO ₂ |
| NUM MEAS | The valid number of days measured |
| NUM REQ | The valid number of days in the ozone season |
| VALID DAILY 1-HR MAXIMUM: | |
| 1ST | Maximum hourly ozone value for the highest day |
| 2ND | Maximum hourly ozone value for the second highest day |
| 3RD | Maximum hourly ozone value for the third highest day |
| VALS > .125: | |
| MEAS | Number of measured daily maxima greater than or equal to 0.125 ppm for O ₃ |
| EST | Number of expected violations for O ₃ |
| MISS DAYS ASSUMED < STANDARD | |
| | Number of missing days assumed to be less than the standard |
| INT | Interval Code, 1 = Hourly, C = Composite, and 7 = Weekly |

THE DATA IN TABLE 3 CONSISTS OF BOTH STATE AND PRIVATE NETWORKS.

TABLE 3

| SUSPENDED PARTICULATE | | CONNECTICUT | | UNITS: 001 UG/CU METER (25 C) | | | | | | | | |
|-----------------------|---|---------------|---------------|-------------------------------|------|------------|--------------|-------------|-------------|---------------|-------------|------------|
| P O | | | | | | | | | | | | |
| SITE ID | C | CITY | COUNTY | ADDRESS | #OBS | MAX 1ST | 24-HR 2ND | OBS> 260 | OBS> 150 | ARITH MEAN | GEO MEAN | GEO STD |
| 09-001-0001 | 2 | BRIDGEPORT | FAIRFIELD CO | CITY HALL, 47 LYON TERRACE | 60 | 107 | 96 | 0 | 0 | 45 | 42 | 1.5 |
| 09-001-0009 | 1 | BRIDGEPORT | FAIRFIELD CO | BASSICK HIGH SCHOOL | 35 | 93 | 83 | 0 | 0 | 41? | 36? | 1.6 |
| 09-001-0010 | 1 | BRIDGEPORT | FAIRFIELD CO | 680 PARK AVENUE | 58 | 113 | 109 | 0 | 0 | 51 | 47 | 1.5 |
| 09-001-0021 | 1 | STAMFORD | FAIRFIELD CO | COMMUNITY CENTER, HENRY ST. | 57 | 114 | 110 | 0 | 0 | 51 | 47 | 1.6 |
| 09-001-0123 | 1 | BRIDGEPORT | FAIRFIELD CO | TRAILER, HALLET STREET | 58 | 117 | 115 | 0 | 0 | 56 | 51 | 1.5 |
| 09-001-0123 | 3 | BRIDGEPORT | FAIRFIELD CO | TRAILER, HALLET STREET | 57 | 124 | 122 | 0 | 0 | 55 | 50 | 1.6 |
| 09-001-1002 | 1 | DANBURY | FAIRFIELD CO | DANBURY PUBLIC LIBRARY | 60 | 135 | 122 | 0 | 0 | 55 | 49 | 1.6 |
| 09-001-1008 | 1 | GREENWICH | FAIRFIELD CO | COS COB PUMPING STATION | 58 | 86 | 85 | 0 | 0 | 40 | 37 | 1.5 |
| 09-001-1123 | 1 | DANBURY | FAIRFIELD CO | TRAILER, W. CONNECTICUT ST. | 61 | 106 | 95 | 0 | 0 | 49 | 44 | 1.6 |
| 09-001-2007 | 1 | STAMFORD | FAIRFIELD CO | DPW, MAGEE AVENUE | 59 | 117 | 102 | 0 | 0 | 50 | 46 | 1.5 |
| 09-001-2012 | 1 | NORWALK | FAIRFIELD CO | U.S.POST OFFICE, WASHINGTON | 60 | 110 | 94 | 0 | 0 | 47 | 43 | 1.5 |
| 09-001-3005 | 1 | NORWALK | FAIRFIELD CO | NORWALK HEALTH DEPT. | 56 | 206 | 154 | 0 | 2 | 61 | 53 | 1.7 |
| 09-001-5005 | 1 | STRATFORD | FAIRFIELD CO | HEALTH + WELFARE BUILDING | 61 | 100 | 99 | 0 | 0 | 49 | 45 | 1.5 |
| 09-001-6001 | 1 | NORWALK | FAIRFIELD CO | BOARD OF EDUCATION | 30 | 95 | 89 | 0 | 0 | 50? | 46? | 1.6 |
| 09-001-8001 | 1 | STAMFORD | FAIRFIELD CO | CENTRAL FIRE STATION | 57 | 124 | 113 | 0 | 0 | 51 | 46 | 1.6 |
| 09-003-0008 | 1 | NEW BRITAIN | HARTFORD CO | FIRE HEADQUARTERS, BEAVER ST | 57 | 78 | 76 | 0 | 0 | 39 | 35 | 1.6 |
| 09-003-0013 | 1 | HARTFORD | HARTFORD CO | 401 FLATBUSH AVENUE | 59 | 83 | 77 | 0 | 0 | 46 | 43 | 1.5 |
| 09-003-0014 | 1 | HARTFORD | HARTFORD CO | FIRE STATION, 510 FRANKLIN | 60 | 77 | 76 | 0 | 0 | 46 | 42 | 1.5 |
| 09-003-0015 | 2 | HARTFORD | HARTFORD CO | HELCO, 400 SHELTON STREET | 58 | 240 | 205 | 0 | 2 | 71 | 63 | 1.6 |
| 09-003-1001 | 1 | BRISTOL | HARTFORD CO | CITY HALL, MAIN STREET | 57 | 74 | 72 | 0 | 0 | 39 | 36 | 1.5 |
| 09-003-1004 | 1 | EAST HARTFORD | HARTFORD CO | CITY HALL, 740 MAIN STREET | 56 | 92 | 79 | 0 | 0 | 45 | 41 | 1.6 |
| 09-003-1007 | 1 | NEW BRITAIN | HARTFORD CO | FIRE STATION NO.2, S. MAIN | 60 | 72 | 64 | 0 | 0 | 40 | 36 | 1.6 |
| 09-003-1009 | 1 | NEW BRITAIN | HARTFORD CO | CHAMBERLAIN SCHOOL | 58 | 74 | 69 | 0 | 0 | 36 | 33 | 1.6 |
| 09-003-2001 | 2 | BURLINGTON | HARTFORD CO | FISH HATCHERY, PUNCH BROOK | 60 | 64 | 54 | 0 | 0 | 22 | 19 | 1.7 |
| 09-003-2003 | 1 | HARTFORD | HARTFORD CO | HARTFORD LIBRARY, MAIN ST. | 59 | 109 | 96 | 0 | 0 | 54 | 51 | 1.5 |
| 09-003-2003 | 3 | HARTFORD | HARTFORD CO | HARTFORD LIBRARY, MAIN ST. | 58 | 104 | 86 | 0 | 0 | 54 | 50 | 1.5 |
| 09-003-7001 | 1 | MANCHESTER | HARTFORD CO | TOWN HALL, 41 CENTER STREET | 59 | 82 | 73 | 0 | 0 | 38 | 35 | 1.5 |
| 09-005-2001 | 1 | | LITCHFIELD CO | MORRIS DAM, ROUTE 109 | 60 | 72 | 56 | 0 | 0 | 26 | 24 | 1.6 |
| 09-005-6001 | 1 | TORRINGTON | LITCHFIELD CO | 140 MAIN STREET | 50 | 121 | 92 | 0 | 0 | 43 | 38 | 1.7 |
| 09-007-0002 | 2 | HADDAM | MIDDLESEX CO | CRIMINAL JUSTICE ACADEMY | 59 | 76 | 67 | 0 | 0 | 30 | 27 | 1.6 |
| 09-007-1003 | 1 | MIDDLETOWN | MIDDLESEX CO | CITY HALL, DEKOVEN DRIVE | 61 | 112 | 111 | 0 | 0 | 48 | 43 | 1.6 |
| 09-009-0004 | 1 | ANSONIA | NEW HAVEN CO | PUBLIC WORKS, DIVISION ST. | 59 | 83 | 81 | 0 | 0 | 43 | 39 | 1.6 |
| 09-009-0013 | 1 | NEW HAVEN | NEW HAVEN CO | FIRE HEADQUARTERS, GRAND AVE | 59 | 93 | 91 | 0 | 0 | 48 | 45 | 1.4 |

| SUSPENDED PARTICULATE Continued | | | | CONNECTICUT | UNITS: 001 UG/CU METER (25 C) | | | | | | | | |
|---------------------------------|---|-------------|---------------|-----------------------------|-------------------------------|---------|-----------|----------|----------|------------|----------|---------|--|
| | P | | | | | | | | | | | | |
| | O | | | | | | | | | | | | |
| SITE ID | C | CITY | COUNTY | ADDRESS | #OBS | MAX 1ST | 24-HR 2ND | OBS> 260 | OBS> 150 | ARITH MEAN | GEO MEAN | GEO STD | |
| 09-009-0013 | 1 | NEW HAVEN | NEW HAVEN CO | GRAND AVE FIRE HOUSE | 59 | 93 | 91 | 0 | 0 | 48 | 45 | 1.4 | |
| 09-009-0018 | 1 | NEW HAVEN* | NEW HAVEN CO | STILES STREET. | 39 | 1121 | 930 | 17 | 22 | 297? | 213? | 2.3 | |
| 09-009-0018 | 2 | NEW HAVEN* | NEW HAVEN CO | STILES STREET. | 129 | 722 | 418 | 19 | 72 | 171? | 144? | 1.9 | |
| 09-009-2123 | 2 | WATERBURY | NEW HAVEN CO | TRAILER AT DOT | 55 | 143 | 120 | 0 | 0 | 61 | 57 | 1.5 | |
| 09-009-2123 | 3 | WATERBURY | NEW HAVEN CO | TRAILER AT DOT | 55 | 150 | 140 | 0 | 0 | 63 | 57 | 1.6 | |
| 09-009-3006 | 1 | WATERBURY | NEW HAVEN CO | FIREHOUSE NO.6 , WILLOW ST. | 58 | 77 | 68 | 0 | 0 | 37 | 34 | 1.5 | |
| 09-009-3007 | 1 | WATERBURY | NEW HAVEN CO | EAST END FIREHOUSE | 59 | 158 | 108 | 0 | 1 | 58 | 52 | 1.6 | |
| 09-009-3007 | 2 | WATERBURY | NEW HAVEN CO | EAST END FIREHOUSE | 60 | 160 | 113 | 0 | 1 | 58 | 52 | 1.6 | |
| 09-009-4002 | 1 | MERIDEN | NEW HAVEN CO | STODDARD BUILDING, 165 MILL | 60 | 130 | 116 | 0 | 0 | 50 | 45 | 1.6 | |
| 09-009-4005 | 1 | WATERBURY | NEW HAVEN CO | COURTHOUSE, GRAND STREET | 57 | 124 | 100 | 0 | 0 | 46 | 41 | 1.7 | |
| 09-009-5001 | 1 | NAUGATUCK | NEW HAVEN CO | 229 CHURCH STREET | 57 | 87 | 78 | 0 | 0 | 44 | 40 | 1.6 | |
| 09-009-5002 | 1 | MILFORD | NEW HAVEN CO | DEVON COMMUNITY CENTER | 11 | 63 | 57 | 0 | 0 | 47? | 45? | 1.4 | |
| 09-009-7002 | 1 | NEW HAVEN | NEW HAVEN CO | CLINTON SCHOOL, CLINTON AVE | 53 | 134 | 104 | 0 | 0 | 51 | 46 | 1.6 | |
| 09-009-8003 | 1 | WEST HAVEN | NEW HAVEN CO | 195 TOLL | 60 | 154 | 121 | 0 | 1 | 56 | 51 | 1.5 | |
| 09-009-9001 | 1 | WALLINGFORD | NEW HAVEN CO | TOWN HALL, 350 CENTER ST. | 61 | 94 | 88 | 0 | 0 | 45 | 41 | 1.6 | |
| 09-011-0006 | 1 | GROTON | NEW LONDON CO | GROTON HIGHWAY GARAGE | 58 | 98 | 96 | 0 | 0 | 41 | 36 | 1.7 | |
| 09-011-1101 | 2 | WATERFORD | NEW LONDON CO | NEW LONDON COUNTRY CLUB | 59 | 106 | 91 | 0 | 0 | 33 | 28 | 1.8 | |
| 09-011-3002 | 1 | NORWICH | NEW LONDON CO | 22 COURT HOUSE SQUARE | 59 | 101 | 82 | 0 | 0 | 46 | 42 | 1.5 | |
| 09-011-9001 | 2 | VOLUNTOWN | NEW LONDON CO | PACHAUG STATE FOREST VOLUN. | 59 | 73 | 55 | 0 | 0 | 22 | 20 | 1.5 | |
| 09-015-1002 | 1 | WILLIMANTIC | WINDHAM CO | 108 VALLEY STREET | 47 | 106 | 106 | 0 | 0 | 50 | 45 | 1.6 | |

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

Method: Gravimetric, 24-hour Hi-volume Filter Sample-91

* Does not meet siting criteria for TSP

| LEAD | | CONNECTICUT | | | | UNITS: 001 UG/CU METER (25 C) | | | | | | | |
|-------------|--------------|--------------|-----------------------|------|-----|-------------------------------|-----|-----|------|------------------|-----|------|--|
| P | | | | | | ----QUARTERLY ARITH MEANS---- | | | | MEANS MAX VALUES | | | |
| O | | | | | | | | | | | | | |
| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | 1ST | 2ND | 3RD | 4TH | >1.5 | 1ST | 2ND | METH | |
| 09-001-0001 | 5 BRIDGEPORT | FAIRFIELD CO | CITY HALL, 47 LYON ST | 12 | .06 | .04 | .04 | .05 | 0 | .08 | .07 | 092 | |
| 09-001-0009 | 1 BRIDGEPORT | FAIRFIELD CO | BASSICK HIGH SCHOOL | 10 | .05 | .05 | .04 | .02 | 0 | .06 | .06 | 092 | |
| 09-001-0010 | 1 BRIDGEPORT | FAIRFIELD CO | 680 PARK AVENUE | 12 | .07 | .07 | .05 | .05 | 0 | .08 | .08 | 092 | |
| 09-001-0021 | 1 STAMFORD | FAIRFIELD CO | COMMUNITY CENTER | 12 | .06 | .05 | .08 | .10 | 0 | .23 | .10 | 092 | |
| 09-001-0123 | 1 BRIDGEPORT | FAIRFIELD CO | TRAILER, HALLET ST | 12 | .08 | .07 | .05 | .06 | 0 | .09 | .08 | 092 | |

LEAD (Continued)

CONNECTICUT

UNITS: 001 UG/CU METER (25 C)

| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | ----QUARTERLY ARITH MEANS---- | | | | | MEANS MAX VALUES | | |
|-------------|-----------------|---------------|-----------------------|------|-------------------------------|-----|-----|-----|------|------------------|-----|------|
| | | | | | 1ST | 2ND | 3RD | 4TH | >1.5 | 1ST | 2ND | METH |
| 09-001-1002 | 1 DANBURY | FAIRFIELD CO | DANBURY PUBLIC LIB | 12 | .05 | .10 | .06 | .04 | 0 | .24 | .15 | 092 |
| 09-001-1008 | 1 GREENWICH | FAIRFIELD CO | COS COB PUMPING ST. | 12 | .05 | .03 | .03 | .03 | 0 | .07 | .05 | 092 |
| 09-001-1123 | 1 DANBURY | FAIRFIELD CO | TRAILER, W. CON. | 12 | .05 | .03 | .03 | .04 | 0 | .07 | .06 | 092 |
| 09-001-2007 | 1 STAMFORD | FAIRFIELD CO | DPW, MAGEE AVE. | 12 | .07 | .06 | .05 | .08 | 0 | .12 | .08 | 092 |
| 09-001-2012 | 1 NORWALK | FAIRFIELD CO | US POST OFFICE | 12 | .05 | .05 | .04 | .05 | 0 | .06 | .06 | 092 |
| 09-001-3005 | 1 NORWALK | FAIRFIELD CO | NORWALK HEALTH DEP | 12 | .06 | .04 | .06 | .04 | 0 | .10 | .07 | 092 |
| 09-001-5005 | 1 STRATFORD | FAIRFIELD CO | HEALTH & WELFARE | 12 | .13 | .05 | .04 | .10 | 0 | .18 | .16 | 092 |
| 09-001-6001 | 1 NORWALK | FAIRFIELD CO | BOARD OF EDUCATION | 6 | .04 | .04 | | | 0 | .06 | .04 | 092 |
| 09-001-8001 | 2 STAMFORD | FAIRFIELD CO | CENTRAL FIRE STATION | 12 | .05 | .06 | .05 | .04 | 0 | .07 | .07 | 092 |
| 09-003-0008 | 1 NEW BRITAIN | HARTFORD CO | FIRE HEADQUARTERS | 12 | .06 | .04 | .03 | .03 | 0 | .08 | .06 | 092 |
| 09-003-0013 | 1 HARTFORD | HARTFORD CO | 401 FLATBUSH AVE. | 12 | .07 | .05 | .04 | .07 | 0 | .09 | .08 | 092 |
| 09-003-0014 | 1 HARTFORD | HARTFORD CO | FIRE SATION | 12 | .07 | .04 | .04 | .04 | 0 | .09 | .08 | 092 |
| 09-003-0015 | 2 HARTFORD | HARTFORD CO | HELCO, 400 SHELTON ST | 12 | .11 | .08 | .05 | .07 | 0 | .13 | .11 | 092 |
| 09-003-0016 | 1 HARTFORD | HARTFORD CO | AETNA INSURANCE | 12 | .10 | .10 | .08 | .08 | 0 | .12 | .12 | 094 |
| 09-003-1001 | 1 BRISTOL | HARTFORD CO | CITY HALL, MAIN ST. | 12 | .06 | .03 | .03 | .03 | 0 | .08 | .05 | 092 |
| 09-003-1004 | 1 EAST HARTFORD | HARTFORD CO | CITY HALL, 740 MAIN | 12 | .06 | .04 | .04 | .04 | 0 | .09 | .06 | 092 |
| 09-003-1007 | 1 NEW BRITAIN | HARTFORD CO | FIRE STAION # 2 | 12 | .05 | .03 | .03 | .03 | 0 | .07 | .05 | 092 |
| 09-003-1009 | 1 NEW BRITAIN | HARTFORD CO | CHAMBERLAIN SCHOOL | 12 | .06 | .03 | .03 | .03 | 0 | .08 | .05 | 092 |
| 09-003-2001 | 1 BURLINGTON | HARTFORD CO | FISH HATCHERY | 12 | .02 | .01 | .02 | .01 | 0 | .02 | .02 | 092 |
| 09-003-2003 | 2 HARTFORD | HARTFORD CO | HARTFORD LIBRARY | 12 | .07 | .06 | .07 | .06 | 0 | .10 | .09 | 092 |
| 09-003-2003 | 4 HARTFORD | HARTFORD CO | HARTFORD LIBRARY | 12 | .07 | .05 | .08 | .05 | 0 | .11 | .09 | 092 |
| 09-003-7001 | 1 MANCHESTER | HARTFORD CO | TOWN HALL | 12 | .04 | .03 | .03 | .03 | 0 | .06 | .04 | 092 |
| 09-005-2001 | 1 | LITCHFIELD CO | MORRIS DAM | 12 | .02 | .01 | .02 | .02 | 0 | .03 | .02 | 092 |
| 09-005-6001 | 1 TORRINGTON | LITCHFIELD CO | 140 MAIN STREET | 12 | .06 | .03 | .07 | .05 | 0 | .11 | .07 | 092 |
| 09-007-0002 | 2 HADDAM | MIDDLESEX CO | CRIMINAL JUSTICE | 12 | .02 | .02 | .02 | .02 | 0 | .04 | .03 | 092 |
| 09-007-1003 | 1 MIDDLETOWN | MIDDLESEX CO | CITY HALL, DEKOVEN ST | 12 | .07 | .04 | .03 | .04 | 0 | .11 | .03 | 092 |
| 09-009-0004 | 1 ANSONIA | NEW HAVEN CO | PUBLIC WORKS | 12 | .06 | .04 | .04 | .05 | 0 | .10 | .06 | 092 |
| 09-009-0013 | 1 NEW HAVEN | NEW HAVEN CO | FIRE HEADQUARTERS | 12 | .06 | .05 | .05 | .05 | 0 | .08 | .08 | 092 |
| 09-009-0018 | 1 NEW HAVEN | NEW HAVEN CO | STILES STREET | 12 | .22 | .15 | .10 | .11 | 0 | .30 | .21 | 092 |
| 09-009-0018 | 3 NEW HAVEN | NEW HAVEN CO | STILES STREET | 6 | .22 | .17 | | | 0 | .27 | .23 | 092 |
| 09-009-2123 | 2 WATERBURY | NEW HAVEN CO | TRAILER AT DOT | 12 | .14 | .07 | .08 | .07 | 0 | .18 | .14 | 092 |
| 09-009-2123 | 3 WATERBURY | NEW HAVEN CO | TRAILER AT DOT | 12 | .14 | .06 | .06 | .08 | 0 | .18 | .15 | 092 |
| 09-009-3006 | 1 WATERBURY | NEW HAVEN CO | FIREHOUSE NO. 6 | 12 | .05 | .02 | .06 | .04 | 0 | .08 | .07 | 092 |
| 09-009-3007 | 1 WATERBURY | NEW HAVEN CO | EAST END FIREHOUSE | 12 | .10 | .07 | .09 | .08 | 0 | .16 | .13 | 092 |
| 09-009-3007 | 2 WATERBURY | NEW HAVEN CO | EAST END FIREHOUSE | 12 | .11 | .07 | .06 | .09 | 0 | .15 | .11 | 092 |

| LEAD (Continued) | | | | CONNECTICUT | | UNITS: 001 UG/CU METER (25 C) | | | | | | |
|------------------|-------------|---------------|----------------------|-------------|-----|-------------------------------|-----|-----|------|-----|-----|------|
| P | | | | | | | | | | | | |
| O | | | | | | | | | | | | |
| | | | | | | ----QUARTERLY ARITH MEANS---- | | | | | | |
| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | 1ST | 2ND | 3RD | 4TH | >1.5 | 1ST | 2ND | METH |
| 09-009-4002 1 | MERIDEN | NEW HAVEN CO | STODDARD BUILDING | 12 | .08 | .06 | .05 | .04 | 0 | .11 | .08 | 092 |
| 09-009-4005 2 | WATERBURY | NEW HAVEN CO | COURTHOUSE | 12 | .10 | .04 | .07 | .06 | 0 | .16 | .09 | 092 |
| 09-009-5001 1 | NAUGATUCK | NEW HAVEN CO | 229 CHURCH STREET | 12 | .09 | .04 | .05 | .05 | 0 | .14 | .08 | 092 |
| 09-009-5002 1 | MILFORD | NEW HAVEN CO | DEVON COMMUNITY CTR | 4 | .05 | .03? | | | 0 | .07 | .06 | 092 |
| 09-009-7002 2 | NEW HAVEN | NEW HAVEN CO | CLINTON SCHOOL | 12 | .09 | .04 | .05 | .04 | 0 | .13 | .09 | 092 |
| 09-009-8003 1 | WEST HAVEN | NEW HAVEN CO | 195 TOLL | 12 | .12 | .05 | .04 | .05 | 0 | .16 | .11 | 092 |
| 09-009-9001 1 | WALLINGFORD | NEW HAVEN CO | TOWN HALL, 350 CENT. | 12 | .05 | .04 | .04 | .04 | 0 | .09 | .05 | 092 |
| 09-011-0006 1 | GROTON | NEW LONDON CO | GROTON HIGHWAY | 12 | .02 | .02 | .02 | .02 | 0 | .04 | .03 | 092 |
| 09-011-1101 2 | WATERFORD | NEW LONDON CO | NEW LONDON COUNTRY | 12 | .03 | .02 | .02 | .01 | 0 | .04 | .03 | 092 |
| 09-011-3002 1 | NORWICH | NEW LONDON CO | 22 COURT HOUSE SQ. | 12 | .06 | .04 | .04 | .03 | 0 | .07 | .06 | 092 |
| 09-011-9001 1 | VOLUNTOWN | NEW LONDON CO | PACHAUG STATE FOREST | 12 | .01 | .01 | .02 | .01 | 0 | .02 | .02 | 092 |
| 09-011-1002 1 | WILLIMANTIC | WINDHAM CO | 108 VALLEY STREET | 11 | .12 | .03 | .02 | .08 | 0 | .19 | .11 | 092 |

| CARBON MONOXIDE | | | CONNECTICUT | UNITS: 007 PARTS PER MILLION | | | | | | | |
|-----------------|------------|--------------|--------------------------|------------------------------|----------|------|------|----------|------|------|------|
| P | | | | | MAX 1-HR | | OBS> | MAX 8-HR | | OBS> | |
| O | | | | | 1ST | 2ND | 35 | 1ST | 2ND | 9 | METH |
| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | 1ST | 2ND | 35 | 1ST | 2ND | 9 | METH |
| 09-001-0004 1 | BRIDGEPORT | FAIRFIELD CO | JASPER MCLEVY HALL | 8357 | 10.5 | 8.8 | 0 | 6.3 | 5.3 | 0 | 011 |
| 09-001-0020 1 | STAMFORD | FAIRFIELD CO | LIBRARY 96 BROAD ST. | 8686 | 10.5 | 10.2 | 0 | 6.4 | 6.3 | 0 | 011 |
| 09-003-0013 1 | HARTFORD | HARTFORD CO | 401 FLATBUSH AVENUE | 7039 | 6.0 | 5.6 | 0 | 3.9 | 3.6 | 0 | 011 |
| 09-003-0017 1 | HARTFORD | HARTFORD CO | COURTHOUSE, 155 MORGAN S | 8523 | 30.0 | 23.0 | 0 | 15.8 | 11.4 | 7 | 011 |
| 09-009-0019 1 | NEW HAVEN | NEW HAVEN CO | 80 TEMPLE STREET | 8445 | 12.8 | 12.1 | 0 | 7.8 | 7.5 | 0 | 011 |

Method: Hourly values, Nondispersive Infrared (NDIR) Continuous-11

| SULFUR DIOXIDE | | | | CONNECTICUT | | | | UNITS: 001 | | UG/CU METER (25 C) | | | | | | | | | |
|---|---|---------------|---------------|-------------------|------|-----|-----|------------|-----|--------------------|------|----------|-----|------|------|----------|--|------|--|
| P | | | | | | | | OBS | | OBS | | | | | | | | | |
| O | | | | | | | | MAX 24-HR | | > | | MAX 3-HR | | > | | MAX 1-HR | | ARIT | |
| SITE ID | C | CITY | COUNTY | ADDRESS | #OBS | 1ST | 2ND | 365 | 1ST | 2ND | 1300 | 1ST | 2ND | MEAN | METH | | | | |
| 09-001-0012 | 1 | BRIDGEPORT | FAIRFIELD CO | 115 BOSTON TERRAC | 8212 | 129 | 117 | 0 | 314 | 297 | 0 | 333 | 333 | 33 | 020 | | | | |
| 09-001-0017 | 1 | GREENWICH | FAIRFIELD CO | GREENWICH POINT | 8061 | 77 | 56 | 0 | 114 | 114 | 0 | 162 | 141 | 12 | 020 | | | | |
| 09-001-0025 | 1 | STAMFORD | FAIRFIELD CO | CORTLAND AVENUE | 7818 | 150 | 111 | 0 | 231 | 211 | 0 | 252 | 241 | 28 | 020 | | | | |
| 09-001-0113 | 1 | BRIDGEPORT | FAIRFIELD CO | 30 CONGRESS ST. | 682 | 108 | 104 | 0 | 146 | 142 | 0 | 183 | 181 | 53? | 020 | | | | |
| 09-001-0123 | 2 | BRIDGEPORT | FAIRFIELD CO | TRAILER,HALLET ST | 7219 | 138 | 109 | 0 | 238 | 173 | 0 | 307 | 293 | 28 | 020 | | | | |
| 09-001-1013 | 1 | NORWALK | FAIRFIELD CO | ROGERS SQUARE | 8112 | 142 | 129 | 0 | 207 | 206 | 0 | 265 | 254 | 24 | 020 | | | | |
| 09-001-1123 | 2 | DANBURY | FAIRFIELD CO | TRAILER, W. CT | 8027 | 121 | 91 | 0 | 237 | 190 | 0 | 272 | 257 | 21 | 020 | | | | |
| 09-001-2123 | 3 | STAMFORD | FAIRFIELD CO | TRAILER , N. SR. | 8162 | 159 | 109 | 0 | 236 | 218 | 0 | 249 | 244 | 29 | 020 | | | | |
| 09-003-0005 | 1 | EAST HARTFORD | HARTFORD CO | FIRE STATION | 7763 | 164 | 142 | 0 | 251 | 236 | 0 | 267 | 259 | 26 | 020 | | | | |
| 09-003-1005 | 1 | ENFIELD | HARTFORD CO | SHAKER ROAD | 7944 | 105 | 86 | 0 | 133 | 128 | 0 | 160 | 147 | 17 | 020 | | | | |
| 09-003-1011 | 1 | NEW BRITAIN | HARTFORD CO | 531 EAST MAIN ST. | 8332 | 136 | 118 | 0 | 288 | 205 | 0 | 356 | 307 | 26 | 020 | | | | |
| 09-003-1123 | 3 | HARTFORD | HARTFORD CO | TRAILER, WEST ST. | 7993 | 129 | 117 | 0 | 255 | 207 | 0 | 320 | 244 | 27 | 020 | | | | |
| 09-009-0010 | 1 | MILFORD | NEW HAVEN CO | LENOX AV SCHOOL | 7808 | 134 | 113 | 0 | 402 | 260 | 0 | 409 | 409 | 25 | 020 | | | | |
| 09-009-0017 | 1 | NEW HAVEN | NEW HAVEN CO | LOMBARD STREET | 7935 | 184 | 173 | 0 | 294 | 274 | 0 | 341 | 322 | 36 | 020 | | | | |
| 09-009-1003 | 1 | EAST HAVEN | NEW HAVEN CO | ANIMAL SHELTER | 8119 | 135 | 106 | 0 | 265 | 213 | 0 | 286 | 278 | 25 | 020 | | | | |
| 09-009-1123 | 2 | NEW HAVEN | NEW HAVEN CO | 715 STATE STREET | 8049 | 206 | 179 | 0 | 367 | 313 | 0 | 398 | 375 | 40 | 020 | | | | |
| 09-009-2123 | 2 | WATERBURY | NEW HAVEN CO | TRAILER AT DOT | 8092 | 99 | 99 | 0 | 214 | 197 | 0 | 307 | 275 | 24 | 020 | | | | |
| 09-009-3008 | 1 | WATERBURY | NEW HAVEN CO | LYDIA STREET | 7938 | 159 | 154 | 0 | 286 | 256 | 0 | 377 | 341 | 31 | 020 | | | | |
| 09-009-5002 | 4 | MILFORD | NEW HAVEN CO | DEVON COMMUNITY C | 191 | 70 | 66 | 0 | 121 | 115 | 0 | 141 | 134 | 45? | 020 | | | | |
| 09-011-0007 | 1 | GROTON | NEW LONDON CO | FIRE HEADQUARTERS | 8102 | 77 | 75 | 0 | 158 | 155 | 0 | 278 | 238 | 19 | 020 | | | | |
| ? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA | | | | | | | | | | | | | | | | | | | |
| Method: Hourly values, Pulsed Flourescent-20 | | | | | | | | | | | | | | | | | | | |

| PM TOTAL 0-10UM | | CONNECTICUT | | UNITS: 001 UG/CU METER (25 C) | | | | | | | | | |
|-----------------|--------------|--------------|-------------------------|-------------------------------|-----|-----|-----|-----|------|------|-----|--|--|
| P | | | | MAXIMUM VALUES | | | | | | | | | |
| O | | | | ARITH | | | | | | | | | |
| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | 1ST | 2ND | 3RD | 4TH | MEAN | METH | INT | | |
| 09-001-0010 | 1 BRIDGEPORT | FAIRFIELD CO | 680 PARK AVENUE | 59 | 82 | 65 | 61 | 46 | 30.6 | 052 | 7 | | |
| 09-009-0018 | 1 NEW HAVEN | NEW HAVEN CO | STILES STREET | 158 | 274 | 202 | 168 | 145 | 58.1 | 052 | 7 | | |
| 09-009-2123 | 1 WATERBURY | NEW HAVEN CO | TRAILER AT DOT ENTRANCE | 59 | 68 | 66 | 64 | 59 | 33.4 | 052 | 7 | | |
| 09-009-8003 | 1 WEST HAVEN | NEW HAVEN CO | 195 TOLL | 57 | 71 | 65 | 58 | 57 | 30.7 | 052 | 7 | | |

Method: Gravimetric, 24-hour Filter Sample, 01 - Low-volume SA244E, 51 - Hi-volume SA321, 52 - Hi-volume SA321A,
53 - Hi-volume GMW 9000, 54 - Hi-volume W10

NITROGEN DIOXIDE
P
O

CONNECTICUT

UNITS: 007 PARTS PER MILLION

| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | MAX 1ST | 1-HR 2ND | MAX 1ST | 24-HR 2ND | ARIT MEAN | METH |
|-------------|-----------------|--------------|----------------------------|------|---------|----------|---------|-----------|-----------|------|
| 09-001-0113 | 1 BRIDGEPORT | FAIRFIELD CO | 30 CONGRESS ST. BRIDGEPORT | 713 | .087 | .082 | | | .025? | 014 |
| 09-001-0123 | 1 BRIDGEPORT | FAIRFIELD CO | TRAILER, HALLET STREET | 7711 | .121 | .115 | | | .026 | 014 |
| 09-003-1003 | 1 EAST HARTFORD | HARTFORD CO | 30 REMINGTON ROAD | 8524 | .097 | .095 | | | .020 | 014 |
| 09-009-1123 | 1 NEW HAVEN | NEW HAVEN CO | 715 STATE STREET | 8270 | .141 | .131 | | | .028 | 014 |

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA
Method: Hourly values, Chemiluninescence-14

OZONE

CONNECTICUT

UNITS: 007 PARTS PER MILLION

OZONE SEASON: APR TO OCT

* VALID DAILY 1-HR MAXIMUM * MISS DAYS

| SITE ID | C CITY | COUNTY | ADDRESS | *NUM | NUM | -----MAXIMA----- | 1ST | 2ND | 3RD | 4TH | MEAS | EST | * ASSUMED < | * STANDARD | METH |
|-------------|-----------------|---------------|------------------|-------|-----|------------------|------|------|------|-----|------|-----|-------------|------------|------|
| | | | | *MEAS | REQ | | | | | | | | | | |
| 09-001-0017 | 2 GREENWICH | FAIRFIELD CO | GREENWICH POINT | 201 | 214 | .172 | .167 | .148 | .145 | 10 | 10.5 | 3 | | | 014 |
| 09-001-0123 | 2 BRIDGEPORT | FAIRFIELD CO | TRAILER, HALLET | 196 | 214 | .126 | .126 | .124 | .121 | 5 | 5.1 | 3 | | | 014 |
| 09-001-1123 | 2 DANBURY | FAIRFIELD CO | TRAILER, W. CONN | 196 | 214 | .162 | .150 | .150 | .143 | 6 | 6.4 | 4 | | | 014 |
| 09-001-3007 | 2 STRATFORD | FAIRFIELD CO | USCG LIGHTHOUSE | 195 | 214 | .201 | .174 | .169 | .152 | 18 | 19.2 | 6 | | | 014 |
| 09-003-1003 | 2 EAST HARTFORD | HARTFORD CO | 30 REMINGTON RD. | 211 | 214 | .113 | .111 | .102 | .097 | 0 | 0.0 | 3 | | | 014 |
| 09-007-0007 | 2 MIDDLETOWN | MIDDLESEX CO | CONN. VALLEY HOS | 209 | 214 | .195 | .167 | .134 | .130 | 5 | 5.1 | 1 | | | 014 |
| 09-009-1123 | 2 NEW HAVEN | NEW HAVEN CO | 715 STATE STREET | 197 | 214 | .192 | .145 | .145 | .143 | 9 | 9.7 | 1 | | | 014 |
| 09-009-3002 | 2 MADISON | NEW HAVEN CO | HAMMONASSET ST. | 185 | 214 | .170 | .156 | .154 | .145 | 6 | 6.8 | 5 | | | 014 |
| 09-011-0008 | 1 GROTON | NEW LONDON CO | UNIVERSITY OF CO | 200 | 214 | .196 | .159 | .155 | .149 | 11 | 11.6 | 3 | | | 014 |
| 09-013-1001 | 2 STAFFORD | TOLLAND CO | ROUTE 190 | 207 | 214 | .150 | .140 | .124 | .117 | 2 | 2.1 | 1 | | | 014 |

Method: Hourly Values, Ultra Violet Dasibi Corporation-14

| SUSPENDED PARTICULATE | | | MAINE | UNITS: 001 UG/CU METER (25 C) | | | | | | | | |
|-----------------------|-------------|-----------------|-----------------|-------------------------------|------|-----|-------|------|------|-------|------|-----|
| SITE ID | P O C | CITY | COUNTY | ADDRESS | #OBS | MAX | 24-HR | OBS> | OBS> | ARITH | GEO | GEO |
| | | | | | | 1ST | 2ND | 260 | 150 | MEAN | MEAN | STD |
| 23-001-0008 | 1 | AUBURN | ANDROSCOGGIN CO | LEPAGE BAKERY-60 SECOND ST | 60 | 127 | 87 | 0 | 0 | 45? | 41? | 1.6 |
| 23-003-0011 | 1 | MADAWASKA | AROOSTOOK CO | ST. JARRE'S-11TH AVENUE | 116 | 342 | 231 | 1 | 6 | 55 | 45 | 1.8 |
| 23-003-1005 | 1 | PRESQUE ISLE | AROOSTOOK CO | NORTHEASTLAND HOTEL-MAIN ST | 210 | 476 | 334 | 2 | 6 | 54 | 44 | 1.8 |
| 23-003-2001 | 1 | FORT FAIRFIELD | AROOSTOOK CO | 264 MAIN STREET | 69 | 117 | 82 | 0 | 0 | 38? | 34? | 1.6 |
| 23-003-3001 | 1 | FORT KENT | AROOSTOOK CO | UMFK-CYR HALL PHYSICAL PLAN | 9 | 53 | 45 | 0 | 0 | 23? | 18? | 2.2 |
| 23-005-0002 | 1 | BRIDGTON | CUMBERLAND CO | UPPER RIDGE ROAD, ROUTE #2 | 113 | 65 | 58 | 0 | 0 | 16 | 13 | 1.9 |
| 23-005-0003 | 1 | BRUNSWICK | CUMBERLAND CO | RT 24-BT. CUMBERLAND FARM | 87 | 143 | 128 | 0 | 0 | 49? | 44? | 1.6 |
| 23-005-0014 | 1 | PORTLAND | CUMBERLAND CO | SHELTER SITE-OXFORD&ELM ST | 119 | 160 | 130 | 0 | 1 | 51 | 48 | 1.5 |
| 23-005-0019 | 1 | PORTLAND | CUMBERLAND CO | (PYWCA) YWCA, 187 SPRING ST | 112 | 102 | 95 | 0 | 0 | 44 | 41 | 1.4 |
| 23-005-1008 | 1 | WESTBROOK | CUMBERLAND CO | RESEARCH BUILDING-WARREN AV | 180 | 232 | 227 | 0 | 11 | 86 | 71 | 1.7 |
| 23-005-1012 | 1 | WESTBROOK | CUMBERLAND CO | WAREHOUSE NO. 5, MAIN ST. | 189 | 172 | 159 | 0 | 4 | 66 | 60 | 1.5 |
| 23-005-6002 | 1 | SOUTH PORTLAND | CUMBERLAND CO | SMVTI-HILDRETH HALL-FORT RD | 116 | 67 | 64 | 0 | 0 | 31 | 29 | 1.6 |
| 23-005-7002 | 2 | WESTBROOK | CUMBERLAND CO | N.E.T.&T. CO.-ASH STREET | 112 | 128 | 82 | 0 | 0 | 41 | 38 | 1.6 |
| 23-007-0003 | 1 | JAY | FRANKLIN CO | JEWELL PROPERTY-CRASH ROAD | 357 | 103 | 87 | 0 | 0 | 24 | 19 | 1.9 |
| 23-007-0004 | 1 | JAY | FRANKLIN CO | BOMASTER PROPERTY-JAY HILL | 357 | 118 | 116 | 0 | 0 | 31 | 25 | 2.0 |
| 23-007-0008 | 1 | JAY | FRANKLIN CO | IDBURNAM SITE ANDRO MILL | 362 | 131 | 127 | 0 | 0 | 40 | 34 | 1.9 |
| 23-007-2001 | 1 | JAY | FRANKLIN CO | INT. PAPER CO.-LAGOON HILL | 354 | 175 | 147 | 0 | 1 | 41 | 34 | 2.0 |
| 23-009-0003 | 1 | ACADIA NAT PARK | HANCOCK CO | MCFARLAND HILL, RANGER HDQT | 116 | 44 | 39 | 0 | 0 | 15 | 13 | 1.8 |
| 23-009-1003 | 1 | BUCKSPORT | HANCOCK CO | BUCKS MILL ROAD | 175 | 64 | 53 | 0 | 0 | 17? | 13? | 2.3 |
| 23-009-1004 | 1 | BUCKSPORT | HANCOCK CO | PUBLIC LANDING | 176 | 259 | 181 | 0 | 4 | 40? | 32? | 2.0 |
| 23-011-0005 | 1 | AUGUSTA | KENNEBEC CO | FIRE HOUSE-HARTFORD SQUARE | 165 | 189 | 185 | 0 | 2 | 45 | 40 | 1.7 |
| 23-011-1003 | 1 | WATERVILLE | KENNEBEC CO | STERN'S DEPT. STORE-93 MAIN | 60 | 261 | 117 | 1 | 1 | 62 | 55 | 1.5 |
| 23-011-2003 | 1 | WINSLOW | KENNEBEC CO | (GHR) GULLEY HILL ROAD | 232 | 184 | 155 | 0 | 2 | 50 | 44 | 1.7 |
| 23-013-1007 | 1 | THOMASTON | KNOX CO | MARSH ROAD, THOMASTON, MAIN | 197 | 141 | 115 | 0 | 0 | 27 | 23 | 1.7 |
| 23-013-2001 | 2 | THOMASTON | KNOX CO | MITCHELL PROP.-2 DEXTER AVE | 200 | 156 | 155 | 0 | 2 | 29 | 22 | 2.2 |
| 23-013-2003 | 2 | THOMASTON | KNOX CO | SANDERS PROP-OLD COUNTRY RD | 197 | 133 | 96 | 0 | 0 | 28 | 23 | 2.0 |
| 23-013-2004 | 2 | THOMASTON | KNOX CO | PEASE PROP-BUTTERMILK LANE | 199 | 111 | 101 | 0 | 0 | 33 | 28 | 1.8 |
| 23-017-0008 | 1 | MEXICO | OXFORD CO | LABONVILLE'S-ROUTE#2 | 223 | 136 | 123 | 0 | 0 | 47 | 41 | 1.8 |
| 23-017-2005 | 1 | RUMFORD | OXFORD CO | TAYLOR MOUNTAIN-1 | 226 | 121 | 89 | 0 | 0 | 35 | 30 | 1.8 |
| 23-017-2006 | 1 | RUMFORD | OXFORD CO | TAYLOR MOUNTAIN-2 | 225 | 116 | 72 | 0 | 0 | 27 | 23 | 1.8 |
| 23-017-2007 | 2 | RUMFORD | OXFORD CO | VILLAGE GREEN-ROUTE#108 | 226 | 129 | 96 | 0 | 0 | 31 | 27 | 1.7 |
| 23-019-0001 | 1 | BANGOR | PENOBSCOT CO | BANGOR OFFICE-31 CENTRAL ST | 58 | 153 | 128 | 0 | 1 | 49 | 44 | 1.6 |
| 23-019-0002 | 1 | BANGOR | PENOBSCOT CO | PUMP STATION-WASHINGTON ST. | 114 | 190 | 153 | 0 | 2 | 61 | 53 | 1.8 |

UNITS: 001 UG/CU METER (25 C)

P

0

| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | 1ST | 2ND | 260 | 150 | MEAN | MEAN | STD |
|-------------|-------------------|---------------|------------------------------|------|-----|-----|-----|-----|------|------|-----|
| 23-019-1002 | 1 BREWER | PENOBSCOT CO | JUNIOR HIGH SCH-SOMERSET ST | 57 | 117 | 82 | 0 | 0 | 41 | 37 | 1.6 |
| 23-019-1007 | 1 LINCOLN | PENOBSCOT CO | THOMAS MOT. TRA. PRK.-BROAD | 361 | 143 | 108 | 0 | 0 | 40 | 34 | 1.8 |
| 23-019-2002 | 1 EAST MILLINOCKE | PENOBSCOT CO | KATAHDIN SCHOOL-BIRCH ST. | 115 | 137 | 123 | 0 | 0 | 26 | 19 | 2.3 |
| 23-019-2003 | 2 LINCOLN | PENOBSCOT CO | POST OFFICE-50 FLEMING ST. | 354 | 186 | 153 | 0 | 2 | 35 | 30 | 1.7 |
| 23-019-2009 | 1 MILLINOCKET | PENOBSCOT CO | YORK STREET-MILLINOCKET | 189 | 179 | 176 | 0 | 4 | 41 | 34 | 1.8 |
| 23-019-3002 | 2 LINCOLN | PENOBSCOT CO | VOCA. EDU. BLDG-W. BROADWAY | 354 | 121 | 120 | 0 | 0 | 34 | 29 | 1.8 |
| 23-019-3005 | 1 OLD TOWN | PENOBSCOT CO | PENOBSCOT SHOE-450 N. MAIN | 18 | 137 | 131 | 0 | 0 | 58? | 47? | 2.0 |
| 23-019-3007 | 1 MILFORD | PENOBSCOT CO | SHUMWAY FIELD-RTE. 178 | 322 | 91 | 87 | 0 | 0 | 30 | 25 | 1.8 |
| 23-019-4003 | 1 OLD TOWN | PENOBSCOT CO | MARSH ISLAND APTS-S. MAIN S | 61 | 198 | 99 | 0 | 1 | 42 | 36 | 1.7 |
| 23-019-4005 | 1 NEWBURGH | PENOBSCOT CO | NEWBURGH CONSOLIDATED SCH. | 341 | 69 | 60 | 0 | 0 | 18 | 15 | 1.8 |
| 23-025-2001 | 1 SKOWHEGAN | SOMERSET CO | HINKLEY FARM SCHOOL, HINKLEY | 119 | 93 | 76 | 0 | 0 | 23 | 18 | 2.1 |
| 23-025-2002 | 1 SKOWHEGAN | SOMERSET CO | EATON RIDGE-SCOTT PAPER CO. | 111 | 56 | 47 | 0 | 0 | 19 | 16 | 1.9 |
| 23-029-0007 | 1 WOODLAND | WASHINGTON CO | SEC. TREAT, PIPELINE | 352 | 245 | 186 | 0 | 3 | 31 | 24 | 2.0 |
| 23-029-0008 | 1 WOODLAND | WASHINGTON CO | WOODLAND HIGH SCHOOL | 351 | 181 | 176 | 0 | 5 | 38 | 29 | 2.0 |
| 23-029-0018 | 1 WOODLAND | WASHINGTON CO | PIPELINE WEST OF ROUTE #1 | 344 | 58 | 57 | 0 | 0 | 16 | 14 | 1.7 |
| 23-031-0001 | 1 BERWICK | YORK CO | SCHOOL STREET | 117 | 189 | 183 | 0 | 3 | 73 | 60 | 1.7 |
| 23-031-0002 | 1 BIDDEFORD | YORK CO | TREATMENT PLANT-WATER ST. | 115 | 110 | 99 | 0 | 0 | 39 | 36 | 1.5 |

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

Method: Gravimetric, 24-hour Hi-volume Filter Sample-91

LEAD

MAINE

UNITS: 001 UG/CU METER (25 C)

P

0

| SITE ID | O C CITY | COUNTY | ADDRESS | #OBS | ----QUARTERLY ARITH MEANS---- | | | | MEANS MAX VALUES | | | |
|-------------|----------------|----------------|---------------------|------|-------------------------------|-----|-----|-----|------------------|-----|-----|------|
| | | | | | 1ST | 2ND | 3RD | 4TH | >1.5 | 1ST | 2ND | METH |
| 23-001-0008 | 1 AUBURN | ANDROSCOGGIN C | LEPAGE BAKERY | 60 | .08 | .06 | .07 | .04 | 0 | .25 | .19 | 092 |
| 23-003-1005 | 1 PRESQUE ISLE | AROOSTOOK CO | NORTHEASTLAND HOTEL | 58 | .08 | .04 | .02 | .03 | 0 | .15 | .12 | 092 |
| 23-005-0014 | 2 PORTLAND | CUMBERLAND CO | SHELTER SITE-OXFORD | 117 | .12 | .07 | .05 | .06 | 0 | .27 | .22 | 092 |
| 23-005-0019 | 1 PORTLAND | CUMBERLAND CO | (PYWCA) YWCA, 187 | 112 | .07 | .04 | .04 | .04 | 0 | .06 | .06 | 092 |
| 23-019-0002 | 1 BANGOR | PENOBSCOT CO | PUMP STATION-WASH. | 59 | .07 | .04 | .03 | .04 | 0 | .12 | .10 | 092 |

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

Method: Atomic Absorbtion-92

OZONE MAINE UNITS: 007 PARTS PER MILLION
OZONE SEASON: APR TO OCT

| SITE ID | C | CITY | COUNTY | ADDRESS | *NUM *MEAS | NUM REQ | VALID DAILY 1-HR MAXIMUM | | | | * MISS DAYS | | | |
|-------------|---|---------------|---------------|------------------------|---------------|------------|--------------------------|------|------|------|-------------|-----|-------------|------|
| | | | | | | | 1ST | 2ND | 3RD | 4TH | MEAS | EST | * ASSUMED < | METH |
| 23-005-2003 | 1 | CAPE ELIZABET | CUMBERLAND CO | SHELTER SITE | 213 | 214 | .156 | .141 | .138 | .136 | 4 | 4.0 | 0 | 011 |
| 23-007-1001 | 1 | BIGELOW | FRANKLIN CO | SUGARLOAF MT. | 140 | 214 | .093 | .092 | .087 | .085 | 0 | 0.0 | 1 | 011 |
| 23-007-1002 | 2 | BIGELOW | FRANKLIN CO | SKI TOUR AREA | 96 | 214 | .079 | .073 | .072 | .071 | 0 | 0.0 | 0 | 014 |
| 23-009-0003 | 1 | ACADIA NTL PK | HANCOCK CO | MCFARLAND HILL, | 205 | 214 | .130 | .121 | .117 | .112 | 1 | 1.0 | 2 | 014 |
| 23-009-2003 | 2 | DEDHAM | HANCOCK CO | BALD MTN. | 200 | 214 | .125 | .110 | .104 | .097 | 1 | 1.1 | 1 | 014 |
| 23-011-2001 | 1 | GARDINER | KENNEBEC CO | GARDINER H.S. | 205 | 214 | .119 | .093 | .092 | .087 | 0 | 0.0 | 1 | 011 |
| 23-013-0003 | 1 | ISLE AU HAUT | KNOX CO | FIRE STATION | 130 | 214 | .154 | .128 | .127 | .126 | 4 | 6.5 | 2 | 011 |
| 23-013-0004 | 2 | PORT CLYDE | KNOX CO | MARSHAL PT. LIGHT | 138 | 214 | .149 | .142 | .129 | .120 | 3 | 4.7 | 0 | 014 |
| 23-031-2002 | 1 | KENNEBUNKPORT | YORK CO | OCEAN AVE/PARSON WY176 | 214 | 214 | .152 | .142 | .135 | .131 | 4 | 4.8 | 1 | 011 |
| 23-031-6001 | 1 | YORK | YORK CO | NUBBLE POINT | 69 | 214 | .134 | .125 | .119 | .100 | 2 | 6.1 | 2 | 014 |

Method: Hourly values, Chemiluminescence-11, Ultra Violet Dasibi Corporation-14

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

| SITE ID | C | CITY | COUNTY | ADDRESS | #OBS | MAXIMUM VALUES | | | | #DAYS >150 | ARITH MEAN | METH | INT |
|-------------|---|----------------|---------------|-------------------------|------|----------------|-----|-----|------|---------------|---------------|------|-----|
| | | | | | | 1ST | 2ND | 3RD | >150 | | | | |
| 23-003-0013 | 1 | MADAWASKA | AROOSTOOK CO | BIG DADDY'S RESTAURANT | 130 | 222 | 143 | 92 | 0 | 21.8 | 052 | 7 | |
| 23-003-1005 | 2 | PRESQUE ISLE | AROOSTOOK CO | NORTHEASTLAND HOTEL | 316 | 231 | 172 | 153 | 3 | 29.2 | 052 | 7 | |
| 23-005-0002 | 2 | BRIDGTON | CUMBERLAND CO | UPPER RIDGE ROAD | 40 | 60 | 28 | 27 | 0 | 16.2 | 052 | 7 | |
| 23-005-0014 | 2 | PORTLAND | CUMBERLAND CO | SHELTER SITE - OXFORD | 50 | 77 | 60 | 58 | 0 | 30.9 | 052 | 7 | |
| 23-005-0020 | 1 | PORTLAND | CUMBERLAND CO | 1945 CONGRESS STREET | 65 | 55 | 43 | 42 | 0 | 21.9 | 059 | 7 | |
| 23-005-1012 | 1 | WESTBROOK | CUMBERLAND CO | WAREHOUSE #5, MAIN ST. | 91 | 94 | 71 | 58 | 0 | 28.4 | 053 | 7 | |
| 23-007-0004 | 1 | JAY | FRANKLIN CO | BOMASTER PROPERTY | 115 | 61 | 49 | 49 | 0 | 18.9 | 052 | 7 | |
| 23-009-0003 | 1 | ARCADIA NTL PK | HANCOCK CO | MCFARLAND HILL | 111 | 41 | 37 | 36 | 0 | 12.4 | 001 | 7 | |
| 23-011-0005 | 1 | AUGUSTA | KENNEBEC CO | FIRE HOUSE | 150 | 89 | 68 | 67 | 0 | 25.3 | 052 | 7 | |
| 23-011-2003 | 1 | WINSLOW | KENNEBEC CO | (GHR) GULLEY HILL RD. | 49 | 73 | 69 | 60 | 0 | 28.6 | 052 | 7 | |
| 23-017-0008 | 2 | MEXICO | OXFORD CO | LEBONVILLE'S ROUTE #2 | 87 | 107 | 85 | 67 | 0 | 30.3 | 055 | 7 | |
| 23-019-1007 | 2 | LINCOLN | PENOBSCOT CO | THOMAS MOT. TRAILER PK. | 89 | 71 | 63 | 59 | 0 | 30.8? | 051 | 7 | |
| 23-029-0008 | 1 | WOODLAND | WASHINGTON CO | WOODLAND HIGH SCHOOL | 116 | 92 | 73 | 65 | 0 | 23.4 | 052 | 7 | |

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

Method: Gravimetric, 24-hour Filter Sample, 01 - Low-volume SA244E, 51 - Hi-volume SA321, 52 - Hi-volume SA321A,
53 - Hi-volume GMW 9000, 54 - Hi-volume W10

| SUSPENDED PARTICULATE | | | | MASSACHUSETTS | | UNITS: 001 UG/CU METER (25 C) | | | | | | |
|-----------------------|---|-----------------|--------------|------------------------------|------|-------------------------------|-----------|----------|----------|------------|----------|---------|
| P | | | | | | | | | | | | |
| O | | | | | | | | | | | | |
| SITE ID | C | CITY | COUNTY | ADDRESS | #OBS | MAX 1ST | 24-HR 2ND | OBS> 260 | OBS> 150 | ARITH MEAN | GEO MEAN | GEO STD |
| 25-005-2004 | 1 | NEW BEDFORD | BRISTOL CO | YMCA, 25 WATER STREET | 56 | 73 | 71 | 0 | 0 | 40 | 37 | 1.4 |
| 25-005-3001 | 2 | FALL RIVER | BRISTOL CO | CENTRAL FIRE STATION, 165 B | 58 | 93 | 69 | 0 | 0 | 43 | 40 | 1.5 |
| 25-009-0005 | 1 | LAWRENCE | ESSEX CO | HIGH STREET, STORROW PARK | 30 | 79 | 78 | 0 | 0 | 46? | 43? | 1.5 |
| 25-013-0011 | 1 | SPRINGFIELD | HAMPDEN CO | 59 HOWARD STREET | 61 | 107 | 100 | 0 | 0 | 54 | 51 | 1.5 |
| 25-013-1007 | 1 | HOLYOKE | HAMPDEN CO | ONE COURT SQUARE | 60 | 91 | 88 | 0 | 0 | 49 | 46 | 1.5 |
| 25-013-2007 | 1 | SPRINGFIELD* | HAMPDEN CO | EAST COLUMBUS AVENUE | 39 | 206 | 199 | 0 | 15 | 131? | 124? | 1.5 |
| 25-013-5003 | 1 | WEST SPRINGFIEL | HAMPDEN CO | W. SPRINGFIELD FIRE DEPT., | 57 | 94 | 90 | 0 | 0 | 48 | 45 | 1.5 |
| 25-015-4002 | 1 | WARE | HAMPSHIRE CO | QUABBIN SUMMIT | 105 | 61 | 60 | 0 | 0 | 20 | 16 | --- |
| 25-017-0006 | 1 | LOWELL | MIDDLESEX CO | LOWELL YMCA, 35 YMCA DRIVE | 58 | 143 | 120 | 0 | 0 | 49 | 44 | 1.6 |
| 25-017-3002 | 1 | MEDFORD | MIDDLESEX CO | 100 TO 120 MAIN STREET | 49 | 150 | 124 | 0 | 0 | 64? | 59? | 1.6 |
| 25-017-7002 | 1 | WOBURN | MIDDLESEX CO | WOBURN STREET AND MONTVALE | 58 | 124 | 96 | 0 | 0 | 49 | 46 | 1.5 |
| 25-021-0007 | 1 | QUINCY | NORFOLK CO | HANCOCK STREET | 57 | 90 | 88 | 0 | 0 | 44 | 42 | 1.4 |
| 25-023-0003 | 1 | BROCKTON | PLYMOUTH CO | CRESCENT STREET (ROUTE 27) | 59 | 81 | 65 | 0 | 0 | 40 | 37 | 1.5 |
| 25-025-0002 | 1 | BOSTON* | SUFFOLK CO | KENMORE SQUARE, 590 COMMELTH | 5 | 147 | 122 | 0 | 0 | 99? | 95? | 1.4 |
| 25-025-0012 | 1 | BOSTON | SUFFOLK CO | 115 SOUTHAMPTON STREET | 54 | 190 | 174 | 0 | 2 | 69? | 63? | 1.5 |
| 25-025-0021 | 1 | BOSTON | SUFFOLK CO | 340 BREMAN STREET, EAST BOS | 61 | 118 | 103 | 0 | 0 | 62 | 59 | 1.4 |
| 25-025-0024 | 1 | BOSTON | SUFFOLK CO | 200 COLUMBUS AVENUE | 59 | 132 | 112 | 0 | 0 | 66 | 63 | 1.4 |
| 25-025-0027 | 1 | BOSTON | SUFFOLK CO | ONE CITY SQUARE, CHARLESTOWN | 61 | 313 | 290 | 3 | 17 | 124 | 107 | 1.8 |
| 25-025-1003 | 1 | CHELSEA | SUFFOLK CO | POWDER HORN HILL | 59 | 95 | 85 | 0 | 0 | 47 | 44 | 1.5 |
| 25-027-0013 | 1 | WORCESTER | WORCESTER CO | 419 BELMONT STREET | 58 | 92 | 77 | 0 | 0 | 44 | 39 | 1.7 |
| 25-027-0016 | 1 | WORCESTER | WORCESTER CO | 2 WASHINGTON STREET | 48 | 119 | 110 | 0 | 0 | 59? | 56? | 1.4 |

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

Method: Gravimetric, 24-hour Hi-volume Filter Sample-91

* Micro scale Pb site, does not meet siting criteria for TSP

| LEAD P O | | | | MASSACHUSETTS | | UNITS: 001 UG/CU METER (25 C) | | | | | | | |
|----------------|-------------|--------------|----------------------|---------------|-------------------------------|-------------------------------|------|------|------|------------------|-----|------|--|
| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | ----QUARTERLY ARITH MEANS---- | | | | | MEANS MAX VALUES | | | |
| | | | | | 1ST | 2ND | 3RD | 4TH | >1.5 | 1ST | 2ND | METH | |
| 25-013-0011 2 | SPRINGFIELD | HAMPDEN CO | 59 HOWARD STREET | 50 | .11 | .06 | .06 | .07? | 0 | .21 | .21 | 092 | |
| 25-013-2007 1 | SPRINGFIELD | HAMPDEN CO | EAST COLUMBUS AVE. | 54 | .16 | .11 | .08 | .11 | 0 | .40 | .34 | 092 | |
| 25-017-0006 2 | LOWELL | MIDDLESEX CO | LOWELL YMCA, 35 YMCA | 53 | .09 | .04 | .04 | .06? | 0 | .20 | .20 | 092 | |
| 25-025-0002 1 | BOSTON | SUFFOLK CO | KENMORE SQUARE | 44 | .11 | .09? | .11 | .08? | 0 | .29 | .23 | 092 | |
| 25-025-0027 2 | BOSTON | SUFFOLK CO | ONE CITY SQUARE | 50 | .10 | .12 | .12 | .07? | 0 | .27 | .26 | 092 | |
| 25-027-0016 2 | WORCESTER | WORCESTER CO | 2 WASHINGTON ST. | 44 | .06 | .05 | .04? | .04? | 0 | .16 | .11 | 092 | |

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

92

| CARBON MONOXIDE P O | | | | MASSACHUSETTS | | UNITS: 007 PARTS PER MILLION | | | | | | | |
|---------------------------|-------------|--------------|--------------------------|---------------|----------|------------------------------|------------|----------|-----|-----------|------|--|--|
| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | MAX 1-HR | | OBS> 35 | MAX 8-HR | | OBS> 9 | METH | | |
| | | | | | 1ST | 2ND | | 1ST | 2ND | | | | |
| 25-013-0014 1 | SPRINGFIELD | HAMPDEN CO | FERNBANK STREET NEAR BOS | 8430 | 10.0 | 8.0 | 0 | 4.9 | 4.7 | 0 | 011 | | |
| 25-013-2007 1 | SPRINGFIELD | HAMPDEN CO | EAST COLUMBUS AVENUE | 8646 | 14.0 | 14.0 | 0 | 9.5 | 8.9 | 1 | 011 | | |
| 25-025-0002 1 | BOSTON | SUFFOLK CO | KENMORE SQUARE, 590 COM. | 8213 | 12.0 | 11.0 | 0 | 8.8 | 6.3 | 0 | 011 | | |
| 25-025-0016 1 | BOSTON | SUFFOLK CO | VISCONTI STREET, E.BOST. | 1937 | 10.0 | 10.0 | 0 | 6.6 | 6.6 | 0 | 011 | | |
| 25-025-0021 1 | BOSTON | SUFFOLK CO | 340 BREMAN STREET, E.BOS | 8431 | 15.0 | 12.0 | 0 | 9.1 | 5.9 | 0 | 011 | | |
| 25-025-0022 1 | BOSTON | SUFFOLK CO | 600 WASHINGTON STREET | 8631 | 11.0 | 11.0 | 0 | 7.1 | 7.1 | 0 | 011 | | |
| 25-027-0020 1 | WORCESTER | WORCESTER CO | CENTRAL STREET FIRE STA. | 8562 | 17.0 | 17.0 | 0 | 8.8 | 7.1 | 0 | 011 | | |

Method: Hourly values, Nondispersive Infrared (NDIR) Continuous-11

| SULFUR DIOXIDE | | MASSACHUSETTS | | | UNITS: 001 UG/CU METER (25 C) | | | | | | | | | |
|----------------|---------------|---------------|---------------------|------|-------------------------------|-----|-----|-----|-----|----------|-----|-----|------|----------|
| P | | | | | OBS | | | | | OBS | | | | |
| O | | | | | MAX 24-HR | | | > | | MAX 3-HR | | > | | MAX 1-HR |
| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | 1ST | 2ND | 365 | 1ST | 2ND | 1300 | 1ST | 2ND | MEAN | METH |
| 25-005-1004 | 2 FALL RIVER | BRISTOL CO | GLOBE STREET | 8392 | 147 | 139 | 0 | 341 | 314 | 0 | 472 | 435 | 26 | 020 |
| 25-009-0005 | 2 LAWRENCE | ESSEX CO | HIGH STREET | 8459 | 125 | 119 | 0 | 210 | 210 | 0 | 293 | 272 | 26 | 020 |
| 25-013-0015 | 2 SPRINGFIELD | HAMPDEN CO | SPRINGFEILD COM.COL | 7525 | 182 | 138 | 0 | 299 | 280 | 0 | 417 | 354 | 31 | 020 |
| 25-013-1009 | 2 SPRINGFIELD | HAMPDEN CO | LONGHILL ST. | 8486 | 154 | 137 | 0 | 312 | 265 | 0 | 338 | 330 | 29 | 020 |
| 25-015-4002 | 1 WARE | HAMPSHIRE CO | QUABBIN SUMMIT | 8635 | 53 | 52 | 0 | 105 | 90 | 0 | 131 | 131 | 12 | 020 |
| 25-017-1005 | 2 WATERTOWN | MIDDLESEX CO | VICTORY FIELD | 8587 | 144 | 118 | 0 | 288 | 232 | 0 | 325 | 304 | 23 | 020 |
| 25-025-0002 | 3 BOSTON | SUFFOLK CO | KENMORE SQUARE | 8039 | 145 | 128 | 0 | 293 | 272 | 0 | 448 | 443 | 44 | 020 |
| 25-025-0021 | 3 BOSTON | SUFFOLK CO | 340 BREMAN STREET | 8294 | 131 | 121 | 0 | 259 | 232 | 0 | 296 | 291 | 34 | 020 |
| 25-025-1003 | 1 CHELSEA | SUFFOLK CO | POWDER HORN HILL | 8039 | 122 | 118 | 0 | 299 | 267 | 0 | 322 | 314 | 30 | 020 |
| 25-027-0019 | 2 WORCESTER | WORCESTER CO | DPW YARD, BELMONT | 8399 | 88 | 78 | 0 | 119 | 114 | 0 | 144 | 139 | 15 | 020 |
| 25-027-0020 | 2 WORCESTER | WORCESTER CO | CENTRAL ST. | 8551 | 136 | 101 | 0 | 262 | 196 | 0 | 333 | 314 | 23 | 020 |

| NITROGEN DIOXIDE | | MASSACHUSETTS | | | UNITS: 007 PARTS PER MILLION | | | | | | |
|------------------|---------------|---------------|----------------------------|------|------------------------------|------|-----|-----|-----------|------|-----|
| P | | | | | MAX 1-HR | | | | MAX 24-HR | | |
| O | | | | | 1ST | | 2ND | | 1ST | | 2ND |
| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | 1ST | 2ND | 1ST | 2ND | MEAN | METH | |
| 25-013-0015 | 1 SPRINGFIELD | HAMPDEN CO | SPRINGFIELD COMMUNITY COLL | 8509 | .139 | .112 | | | .022 | 014 | |
| 25-015-4002 | 1 WARE | HAMPSHIRE CO | QUABBIN SUMMIT | 7596 | .064 | .060 | | | .008 | 014 | |
| 25-025-0002 | 3 BOSTON | SUFFOLK CO | KENMORE SQUARE, 590 COMM. | 7496 | .172 | .172 | | | .038 | 014 | |
| 25-025-0021 | 1 BOSTON | SUFFOLK CO | 340 BREMAN STREET, E.BOST. | 8072 | .117 | .117 | | | .034 | 014 | |
| 25-025-1003 | 2 CHELSEA | SUFFOLK CO | POWDER HORN HILL | 8003 | .108 | .105 | | | .024 | 014 | |
| 25-027-0020 | 1 WORCESTER | WORCESTER CO | CENTRAL STREET FIRE STA. | 8517 | .168 | .163 | | | .034 | 014 | |

Method: Hourly values, Chemiluminescence-14

| OZONE | | MASSACHUSETTS | | | | UNITS: 007 PARTS PER MILLION | | | | | | | | |
|-------------|---------------|--------------------------|-------------------|-------|-----|--|------|------|------|------|-----|------------|------|--|
| | | OZONE SEASON: APR TO OCT | | | | | | | | | | | | |
| P | | * | | | | VALID DAILY 1-HR MAXIMUM | | | | | | | | |
| O | | | | | | * MISS DAYS | | | | | | | | |
| | | | | | | * NUM NUM -----MAXIMA----- VALS>.125 * ASSUMED < | | | | | | | | |
| SITE ID | C CITY | COUNTY | ADDRESS | *MEAS | REQ | 1ST | 2ND | 3RD | 4TH | MEAS | EST | * STANDARD | METH | |
| 25-001-0002 | 1 TRURO | BARNSTABLE CO | FOX BOTTOM AREA | 179 | 214 | .115 | .115 | .114 | .110 | 0 | 0.0 | 3 | 014 | |
| 25-005-1001 | 2 EASTON | BRISTOL CO | NORTH EASTON PO | 194 | 214 | .136 | .120 | .108 | .105 | 1 | 1.1 | 4 | 014 | |
| 25-005-1002 | 2 FAIRHAVEN | BRISTOL CO | LEROY WOOD SCH. | 211 | 214 | .134 | .124 | .124 | .122 | 1 | 1.0 | 3 | 014 | |
| 25-009-0005 | 1 LAWRENCE | ESSEX CO | HIGH STREET | 212 | 214 | .126 | .110 | .091 | .088 | 1 | 1.0 | 0 | 011 | |
| 25-009-4003 | 2 NEWBURYPORT | ESSEX CO | PARKER RIVER NWR | 184 | 214 | .136 | .127 | .119 | .101 | 2 | 2.3 | 0 | 014 | |
| 25-013-0003 | 2 AGAWAM | HAMPDEN CO | 152 S.WESTFIELD | 210 | 214 | .103 | .102 | .098 | .095 | 0 | 0.0 | 1 | 014 | |
| 25-013-0008 | 1 CHICOPEE | HAMPDEN CO | ANDERSON ROAD | 208 | 214 | .141 | .121 | .113 | .103 | 1 | 1.0 | 0 | 014 | |
| 25-015-0002 | 2 AMHERST | HAMPSHIRE CO | SOLAR HABITAT | 208 | 214 | .110 | .097 | .097 | .090 | 0 | 0.0 | 0 | 014 | |
| 25-015-4002 | 1 WARE | HAMPSHIRE CO | QUABBIN SUMMIT | 210 | 214 | .118 | .105 | .103 | .096 | 0 | 0.0 | 3 | 014 | |
| 25-017-1801 | 2 SUDBURY | MIDDLESEX CO | WATER ROW RD | 197 | 214 | .143 | .138 | .126 | .126 | 4 | 4.3 | 3 | 014 | |
| 25-017-6001 | 2 LEXINGTON | MIDDLESEX CO | N.E.REGIONAL OFS. | 165 | 214 | .129 | .128 | .113 | .112 | 2 | 2.5 | 7 | 014 | |
| 25-023-2001 | 1 SCITUATE | PLYMOUTH CO | SCITUATE POLICE | 166 | 214 | .118 | .113 | .098 | .097 | 0 | 0.0 | 2 | 000 | |
| 25-025-1003 | 2 CHELSEA | SUFFOLK CO | POWDER HORN HILL | 212 | 214 | .126 | .116 | .115 | .107 | 1 | 1.0 | 2 | 014 | |
| 25-027-0019 | 2 WORCESTER | WORCESTER CO | DPW YARD,BELMONT | 210 | 214 | .111 | .111 | .110 | .101 | 0 | 0.0 | 1 | 014 | |

Method: Hourly values, Chemiluminescence-11, Ultra Violet Dasibi Corporation-14

| PM TOTAL 0-10UM | | MASSACHUSETTS | | | | UNITS: 001 UG/CU METER (25 C) | | | | | | | | |
|-----------------|---------------|---------------|---------------------------|------|-----|-------------------------------|-----|-----|-------|------|-----|--|--|--|
| P | | | | | | | | | | | | | | |
| O | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | 1ST | 2ND | 3RD | 4TH | MEAN | METH | INT | | | |
| 25-009-0005 | 1 LAWRENCE | ESSEX CO | HIGH ST. STORROW PARK | 19 | 65 | 47 | 44 | 39 | 29.0? | 000 | 7 | | | |
| 25-013-0011 | 1 SPRINGFIELD | HAMPDEN CO | 59 HOWARD STREET | 50 | 123 | 90 | 84 | 52 | 31.6? | 000 | 7 | | | |
| 25-013-2007 | 1 SPRINGFIELD | HAMPDEN CO | EAST COLUMBUS STREET | 57 | 105 | 98 | 82 | 75 | 41.9? | 000 | 7 | | | |
| 25-025-0002 | 1 BOSTON | SUFFOLK CO | KENMORE SQ. 590 COMM AVE. | 37 | 68 | 66 | 61 | 55 | 32.8? | 058 | 7 | | | |
| 25-025-0024 | 1 BOSTON | SUFFOLK CO | 200 COLUMBUS AVE. | 53 | 86 | 59 | 58 | 52 | 29.5? | 000 | 7 | | | |
| 25-025-0027 | 1 BOSTON | SUFFOLK CO | ONE CITY SQUARE | 57 | 75 | 72 | 68 | 64 | 39.0 | 000 | 7 | | | |
| 25-027-0016 | 1 WORCESTER | WORCESTER CO | 2 WASHINGTON STREET | 43 | 54 | 53 | 49 | 48 | 29.2? | 000 | 7 | | | |

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

Method: Gravimetric, 24-hour Filter Sample, 01 - Low-volume SA244E, 51 - Hi-volume SA321, 52 - Hi-volume SA321A, 53 - Hi-volume GMW 9000, 54 - Hi-volume W10

| SUSPENDED PARTICULATE | | | NEW HAMPSHIRE | UNITS: 001 UG/CU METER (25 C) | | | | | | | |
|---|------------------|-----------------|------------------------------|-------------------------------|-----|-------|------|------|-------|------|-----|
| SITE ID | P O C CITY | COUNTY | ADDRESS | #OBS | MAX | 24-HR | OBS> | OBS> | ARITH | GEO | GEO |
| | | | | | 1ST | 2ND | 260 | 150 | MEAN | MEAN | STD |
| 33-007-0001 1 | BERLIN | COOS CO | ANGEL GUARDIAN SCHOOL | 57 | 99 | 95 | 0 | 0 | 53 | 51 | 1.4 |
| 33-007-0001 2 | BERLIN | COOS CO | ANGEL GUARDIAN SCHOOL | 21 | 98 | 82 | 0 | 0 | 61? | 57? | 1.5 |
| 33-007-0008 1 | BERLIN | COOS CO | OFF HUTCHINS STREET | 19 | 88 | 68 | 0 | 0 | 37? | 32? | 1.9 |
| 33-007-0010 1 | BERLIN | COOS CO | BURGESS SCHOOL, SCHOOL ST. | 3 | 65 | 63 | 0 | 0 | 57? | 56? | 1.3 |
| 33-007-0014 1 | BERLIN | COOS CO | LANCASTER STREET TRAILER | 59 | 250 | 194 | 0 | 4 | 88 | 78 | 1.7 |
| 33-007-0014 3 | BERLIN | COOS CO | LANCASTER STREET TRAILER | 21 | 154 | 126 | 0 | 1 | 69? | 56? | 2.2 |
| 33-007-0016 1 | BERLIN | COOS CO | 200 ENMAN HILL ROAD | 11 | 54 | 51 | 0 | 0 | 38? | 36? | 1.5 |
| 33-007-0019 1 | BERLIN | COOS CO | CATES HILL RD | 8 | 38 | 25 | 0 | 0 | 20? | 19? | 1.5 |
| 33-007-1005 1 | NORTHUMBERLAND | COOS CO | ST. FRANCIS HALL, STATE ST. | 56 | 63 | 61 | 0 | 0 | 33 | 31 | 1.5 |
| 33-007-1006 1 | NORTHUMBERLAND | COOS CO | WEMYSS DRIVE POWER LINE PO | 58 | 72 | 66 | 0 | 0 | 35 | 32 | 1.6 |
| 33-007-2003 2 | NORTHUMBERLAND | COOS CO | BROOKLYN STREET | 58 | 79 | 72 | 0 | 0 | 35 | 32 | 1.7 |
| 33-011-0008 1 | MANCHESTER | HILLSBOROUGH CO | NOTRE DAME AVENUE | 58 | 83 | 80 | 0 | 0 | 45 | 41 | 1.5 |
| 33-011-0015 1 | MANCHESTER | HILLSBOROUGH CO | 351 CHESTNUT STREET | 60 | 76 | 76 | 0 | 0 | 43 | 40 | 1.5 |
| 33-011-0015 2 | MANCHESTER | HILLSBOROUGH CO | 351 CHESTNUT STREET | 59 | 78 | 76 | 0 | 0 | 44 | 41 | 1.5 |
| 33-011-0016 2 | MANCHESTER | HILLSBOROUGH CO | HARNETT PARK, MUNICIPAL PARK | 56 | 110 | 102 | 0 | 0 | 47? | 43? | 1.5 |
| 33-011-0016 3 | MANCHESTER | HILLSBOROUGH CO | HARNETT PARK, MUNICIPAL PARK | 54 | 113 | 102 | 0 | 0 | 48? | 44? | 1.5 |
| 33-011-1007 1 | NASHUA | HILLSBOROUGH CO | MAIN STREET | 58 | 71 | 66 | 0 | 0 | 40 | 38 | 1.4 |
| 33-011-1007 2 | NASHUA | HILLSBOROUGH CO | MAIN STREET | 59 | 97 | 71 | 0 | 0 | 43 | 40 | 1.5 |
| 33-011-1010 1 | NASHUA | HILLSBOROUGH CO | SANDERS ASSOCIATES, PARKING | 56 | 125 | 88 | 0 | 0 | 45 | 40 | 1.7 |
| 33-011-2001 1 | HOLLIS | HILLSBOROUGH CO | RTE. 122, SILVER LAKE RD. | 52 | 106 | 100 | 0 | 0 | 35? | 29? | 1.9 |
| 33-013-0003 1 | CONCORD | MERRIMACK CO | NO. STATE HOUSE | 59 | 71 | 67 | 0 | 0 | 36 | 33 | 1.6 |
| 33-013-0004 1 | CONCORD | MERRIMACK CO | JUNCTION RTS. 3 AND 93 | 46 | 102 | 97 | 0 | 0 | 55? | 52? | 1.4 |
| 33-015-0006 1 | PORTSMOUTH | ROCKINGHAM CO | COURT STREET | 58 | 105 | 97 | 0 | 0 | 48 | 45 | 1.5 |
| 33-015-0009 1 | PORTSMOUTH | ROCKINGHAM CO | VAUGHAN STREET | 56 | 118 | 107 | 0 | 0 | 57 | 52 | 1.6 |
| 33-015-0011 1 | PORTSMOUTH | ROCKINGHAM CO | SCHILLER SUB STATION - PSCN | 54 | 84 | 66 | 0 | 0 | 39? | 35? | 1.6 |
| 33-017-0001 1 | DOVER | STRAFFORD CO | CENTRAL AVE | 50 | 139 | 120 | 0 | 0 | 50? | 45? | 1.6 |
| ? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA | | | | | | | | | | | |
| Method: Gravimetric, 24-hour Hi-volume Filter Sample-91 | | | | | | | | | | | |

UNITS: 001 UG/CU METER (25 C)

P

0

----QUARTERLY ARITH MEANS---- MEANS MAX VALUES

| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | 1ST | 2ND | 3RD | 4TH | >1.5 | 1ST | 2ND | METH |
|-------------|--------------|---------------|---------------------|------|-----|-----|-----|-----|------|-----|-----|------|
| 33-007-0001 | 1 BERLIN | COOS CO | ANGEL GUAR. SCHOOL | 12 | .03 | .02 | .01 | .02 | 0 | .04 | .03 | 092 |
| 33-011-0015 | 1 MANCHESTER | HILLSBOROUGH | 351 CHESTNUT ST. | 12 | .06 | .03 | .02 | .04 | 0 | .11 | .04 | 092 |
| 33-011-0015 | 2 MANCHESTER | HILLSBOROUGH | 351 CHESTNUT ST. | 12 | .06 | .03 | .02 | .04 | 0 | .12 | .04 | 092 |
| 33-011-1007 | 1 NASHUA | HILLSBOROUGH | MAIN STREET | 11 | .05 | .03 | .02 | .03 | 0 | .09 | .04 | 092 |
| 33-011-1007 | 3 NASHUA | HILLSBOROUGH | MAIN STREET | 11 | .05 | .04 | .02 | .04 | 0 | .08 | .04 | 092 |
| 33-011-1010 | 2 NASHUA | HILLSBOROUGH | SANDERS ASSOC. | 12 | .04 | .02 | .01 | .02 | 0 | .06 | .03 | 092 |
| 33-011-2001 | 1 HOLLIS | HILLSBOROUGH | RT.122, SILVER LAKE | 12 | .02 | .02 | .01 | .02 | 0 | .03 | .03 | 092 |
| 33-013-0003 | 1 CONCORD | MERRIMACK CO | NO. STATE HOUSE | 12 | .05 | .03 | .02 | .03 | 0 | .08 | .04 | 092 |
| 33-013-0004 | 1 CONCORD | MERRIMACK CO | JUNCTION RTE.3 & | 12 | .09 | .06 | .04 | .06 | 0 | .13 | .08 | 092 |
| 33-015-0006 | 1 PORTSMOUTH | ROCKINGHAM CO | COURT STREET | 11 | .06 | .04 | .02 | .03 | 0 | .08 | .04 | 092 |

UNITS: 007 PARTS PER MILLION

P

Q

MAX 1-HR OBS> MAX 8-HR OBS>

| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | 1ST | 2ND | 35 | 1ST | 2ND | 9 | METH |
|-------------|--------------|-----------------|--------------------------|------|------|------|----|------|------|---|------|
| 33-011-0017 | 1 MANCHESTER | HILLSBOROUGH CO | 1170 ELM STREET | 8151 | 16.5 | 14.8 | 0 | 10.4 | 10.3 | 4 | 011 |
| 33-011-1009 | 1 NASHUA | HILLSBOROUGH CO | 25 MAIN STREET, MATARAZZ | 8105 | 20.0 | 16.0 | 0 | 9.2 | 9.1 | 0 | 011 |

Method: Hourly values, Nondispersive Infrared (NDIR) Continuous-11

| SULFUR DIOXIDE | | | | NEW HAMPSHIRE | | | | UNITS: 001 UG/CU METER (25 C) | | | | | | | |
|----------------|------------------|----------------|-------------------|---------------|-----|-----|-----|-------------------------------|-----|------|-----|------------|------|------|------|
| P | | | | | | | | OBS | | | | OBS | | | |
| O | | | | | | | | MAX 24-HR > | | | | MAX 3-HR > | | | |
| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | 1ST | 2ND | 365 | 1ST | 2ND | 1300 | 1ST | 2ND | ARIT | MEAN | METH |
| 33-007-0011 | 7 BERLIN | COOS CO | 116 POPLAR STREET | 6527 | 98 | 94 | 0 | 288 | 262 | 0 | 437 | 419 | 19? | 020 | |
| 33-007-0014 | 6 BERLIN | COOS CO | LANCASTER STREET | 8424 | 68 | 65 | 0 | 301 | 276 | 0 | 515 | 393 | 17 | 020 | |
| 33-007-0016 | 1 BERLIN | COOS CO | 200 ENMAN HILL RD | 8182 | 130 | 111 | 0 | 426 | 345 | 0 | 737 | 589 | 18 | 020 | |
| 33-007-0017 | 1 BERLIN | COOS CO | EAST HILL | 5579 | 69 | 66 | 0 | 256 | 207 | 0 | 307 | 306 | 10? | 020 | |
| 33-007-0019 | 1 BERLIN | COOS CO | CATES HILL RD | 8664 | 106 | 103 | 0 | 404 | 378 | 0 | 598 | 537 | 16 | 020 | |
| 33-007-1006 | 1 NORTHUMBERLAND | COOS CO | WEMYSS DRIVE POW | 8611 | 72 | 71 | 0 | 183 | 171 | 0 | 317 | 296 | 13 | 023 | |
| 33-007-1007 | 1 NORTHUMBERLAND | COOS CO | ROUTES 110 AND 3, | 8602 | 163 | 140 | 0 | 344 | 277 | 0 | 490 | 466 | 12 | 023 | |
| 33-007-2008 | 1 NORTHUMBERLAND | COOS CO | WEMYSS DRIVE, POW | 8535 | 60 | 60 | 0 | 162 | 154 | 0 | 280 | 267 | 12 | 023 | |
| 33-011-0016 | 1 MANCHESTER | HILLSBOROUGH C | HARNETT PARK | 8365 | 132 | 104 | 0 | 232 | 210 | 0 | 304 | 275 | 23 | 023 | |
| 33-011-1005 | 3 NASHUA | HILLSBOROUGH C | 18 MULLBERRY ST | 8445 | 92 | 90 | 0 | 171 | 145 | 0 | 178 | 178 | 21 | 023 | |
| 33-011-1010 | 1 NASHUA | HILLSBOROUGH C | SANDERS ASSOCIATE | 8339 | 104 | 80 | 0 | 187 | 140 | 0 | 204 | 191 | 32? | 023 | |
| 33-013-0006 | 1 BOW | MERRIMACK CO | SOUTH BOW AND DUN | 8553 | 79 | 65 | 0 | 214 | 199 | 0 | 385 | 356 | 15 | 023 | |
| 33-013-1003 | 1 PEMBROKE | MERRIMACK CO | PEMBROKE HILL | 8451 | 171 | 170 | 0 | 457 | 455 | 0 | 707 | 681 | 18 | 023 | |
| 33-015-0009 | 2 PORTSMOUTH | ROCKINGHAM CO | VAUGHAN STREET | 8530 | 67 | 65 | 0 | 182 | 142 | 0 | 262 | 236 | 14 | 023 | |

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

Method: Hourly values, Pulsed Fluorescent-20, Ultra Violet Stimulated Fluorecence-23

| NITROGEN DIOXIDE | | | | NEW HAMPSHIRE | | | | UNITS: 007 PARTS PER MILLION | | | | | | | |
|------------------|--------------|-----------------|----------------------------|---------------|------|------|--|------------------------------|-----|--|--|-----------|-----|------|------|
| P | | | | | | | | MAX 1-HR | | | | MAX 24-HR | | | |
| O | | | | | | | | | | | | | | | |
| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | 1ST | 2ND | | 1ST | 2ND | | | 1ST | 2ND | ARIT | METH |
| 33-011-0016 | 1 MANCHESTER | HILLSBOROUGH CO | HARNETT PARK, MUNICIPAL PA | 6815 | .312 | .294 | | | | | | | | .020 | 014 |

Method: Hourly values, Chemiluminescence-14

OZONE NEW HAMPSHIRE UNITS: 007 PARTS PER MILLION
OZONE SEASON: APR TO OCT
P * VALID DAILY 1-HR MAXIMUM * MISS DAYS
O *
SITE ID C CITY COUNTY ADDRESS *NUM NUM -----MAXIMA----- VALS>.125 * ASSUMED <
*MEAS REQ 1ST 2ND 3RD 4TH MEAS EST * STANDARD METH

| | | | | | | | | | | | | | | |
|-------------|---|------------|---------------|------------------|-----|-----|------|------|------|------|---|-----|---|-----|
| 33-007-0014 | 1 | BERLIN | COOS CO | LANCASTER STREET | 209 | 214 | | | | .090 | 0 | 0.0 | 1 | 011 |
| 33-011-0016 | 1 | MANCHESTER | HILLSBOROUGH | HARNETT PARK | 207 | 214 | .095 | .088 | .087 | .081 | 0 | 0.0 | 7 | 011 |
| 33-011-1010 | 2 | NASHUA | HILLSBOROUGH | SANDERS ASSOCIAT | 206 | 214 | .109 | .101 | .101 | .095 | 0 | 0.0 | 4 | 011 |
| 33-013-0006 | 1 | BOW | MERRIMACK CO | S. BOW AND DUN | 207 | 214 | .097 | .095 | .092 | .092 | 0 | 0.0 | 2 | 011 |
| 33-015-0009 | 1 | PORTSMOUTH | ROCKINGHAM CO | VAUGHAN STREET | 211 | 214 | .125 | .120 | .115 | .090 | 1 | 1.0 | 3 | 011 |
| 33-015-0012 | 1 | RYE | ROCKINGHAM CO | RYE HARBOR STATE | 190 | 214 | .180 | .155 | .127 | .125 | 4 | 4.5 | 0 | 011 |

Method: Hourly values, Chemiluminescence-14

PM TOTAL 0-10UM NEW HAMPSHIRE UNITS: 001 UG/CU METER (25 C)
P
O
SITE ID C CITY COUNTY ADDRESS #OBS 1ST 2ND 3RD 4TH ARITH MEAN METH INT
MAXIMUM VALUES

| | | | | | | | | | | | | |
|-------------|---|------------|-----------------|--------------------------|----|----|----|----|----|-------|-----|---|
| 33-007-0008 | 1 | BERLIN | COOS CO | OFF HUTCHINS STREET | 40 | 49 | 49 | 46 | 41 | 24.9? | 052 | 7 |
| 33-007-0014 | 1 | BERLIN | COOS CO | LANCASTER STREET TRAILER | 60 | 67 | 60 | 58 | 56 | 35.1? | 052 | 7 |
| 33-007-0014 | 2 | BERLIN | COOS CO | LANCASTER STREET TRAILER | 13 | 64 | 51 | 47 | 45 | 34.0? | 054 | 7 |
| 33-011-0015 | 1 | MANCHESTER | HILLSBOROUGH CO | 351 CHESTNUT STREET | 14 | 63 | 62 | 39 | 33 | 26.5? | 052 | 7 |
| 33-011-0015 | 2 | MANCHESTER | HILLSBOROUGH CO | 351 CHESTNUT STREET | 28 | 66 | 42 | 35 | 35 | 22.6? | 058 | 7 |
| 33-011-0015 | 3 | MANCHESTER | HILLSBOROUGH CO | 351 CHESTNUT STREET | 26 | 70 | 42 | 32 | 27 | 21.3? | 058 | 7 |

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

Method: Gravimetric, 24-hour Filter Sample, 01 - Low-volume SA244E, 51 - Hi-volume SA321, 52 - Hi-volume SA321A,
53 - Hi-volume GMW 9000, 54 - Hi-volume W10

| CARBON MONOXIDE | | | | RHODE ISLAND | | UNITS: 007 PARTS PER MILLION | | | | | | | |
|-----------------|---|------------|---------------|--------------------------|------|------------------------------|------|------|----------|-----|------|-----|------|
| P | | | | | | MAX 1-HR | | OBS> | MAX 8-HR | | OBS> | | |
| O | | | | | | #OBS | 1ST | 2ND | 35 | 1ST | 2ND | 9 | METH |
| SITE ID | C | CITY | COUNTY | ADDRESS | | | | | | | | | |
| 44-007-0015 | 1 | PROVIDENCE | PROVIDENCE CO | DEPT. OF HEALTH BUILDING | 8357 | 11.4 | 11.4 | 0 | 8.1 | 7.4 | 0 | 011 | |
| 44-007-1009 | 1 | PROVIDENCE | PROVIDENCE CO | 76 DORRANCE STREET | 8603 | 12.2 | 12.2 | 0 | 8.6 | 8.1 | 0 | 011 | |

Method: Hourly values, Nondispersive Infrared (NDIR) Continuous-11

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| SULFUR DIOXIDE | | | | RHODE ISLAND | | UNITS: 001 UG/CU METER (25 C) | | | | | | | | | |
|----------------|---|------------|---------------|-----------------|------|-------------------------------|-----|-----|----------|-----|------|----------|-----|------|------|
| P | | | | | | OBS | | | OBS | | | | | | |
| O | | | | | | MAX 24-HR | | > | MAX 3-HR | | > | MAX 1-HR | | ARIT | |
| SITE ID | C | CITY | COUNTY | ADDRESS | #OBS | 1ST | 2ND | 365 | 1ST | 2ND | 1300 | 1ST | 2ND | MEAN | METH |
| 44-007-0015 | 1 | PROVIDENCE | PROVIDENCE CO | DEPT. OF HEALTH | 8469 | 158 | 132 | 0 | 378 | 303 | 0 | 381 | 378 | 31 | 023 |
| 44-007-1005 | 2 | PAWTUCKET | PROVIDENCE CO | SUMMIT STREET | 8147 | 134 | 130 | 0 | 290 | 248 | 0 | 402 | 351 | 32 | 023 |
| 44-007-1009 | 1 | PROVIDENCE | PROVIDENCE CO | 76 DORRANCE ST. | 8216 | 171 | 137 | 0 | 415 | 390 | 0 | 439 | 432 | 41 | 020 |

Method: Hourly values, Pulsed Fluorescent-20, Ultra Violet Stimulated Fluorencence-23

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| NITROGEN DIOXIDE | | | | RHODE ISLAND | | UNITS: 007 PARTS PER MILLION | | | | | | |
|------------------|---|------------|---------------|----------------------------|------|------------------------------|------|-----------|-----|------|------|------|
| P | | | | | | MAX 1-HR | | MAX 24-HR | | ARIT | | |
| O | | | | | | #OBS | 1ST | 2ND | 1ST | 2ND | MEAN | METH |
| SITE ID | C | CITY | COUNTY | ADDRESS | | | | | | | | |
| 44-007-0012 | 2 | PROVIDENCE | PROVIDENCE CO | ROCKEFELLER LIBRARY, PROSP | 7629 | .164 | .100 | | | | .025 | 014 |

Method: Hourly value, Chemiluminescence-14

OZONE RHODE ISLAND UNITS: 007 PARTS PER MILLION
 OZONE SEASON: APR TO OCT
 P * VALID DAILY 1-HR MAXIMUM * MISS DAYS
 O *NUM NUM -----MAXIMA----- VALS>.125 * ASSUMED <
 SITE ID C CITY COUNTY ADDRESS *MEAS REQ 1ST 2ND 3RD 4TH MEAS EST * STANDARD METH

| | | | | | | | | | | | | | |
|-------------|---|------------|--------------------------------|-----|-----|------|------|------|------|---|-----|---|---------|
| 44-003-0002 | 2 | KENT CO | W. ALTON JONES C | 184 | 214 | .163 | .162 | .151 | .145 | 7 | 8.1 | 0 | 014 |
| 44-007-0012 | 1 | PROVIDENCE | PROVIDENCE CO ROCKEFELLER LIB. | 166 | 214 | .155 | .135 | .124 | .115 | 2 | 2.6 | 0 | 011,014 |

Method: Hourly values, Chemiluminescence-11, Ultra Violet Dasibi Corporation-14

PM TOTAL 0-10UM RHODE ISLAND UNITS: 001 UG/CU METER (25 C)
 P
 O MAXIMUM VALUES ARITH
 SITE ID C CITY COUNTY ADDRESS #OBS 1ST 2ND 3RD 4TH MEAN METH INT

| | | | | | | | | | | | | |
|-------------|---|------------|---------------|--------------------------|----|----|----|----|----|------|-----|---|
| 44-007-0011 | 1 | PROVIDENCE | PROVIDENCE CO | HEALTH DEPT. PARKING LOT | 58 | 62 | 59 | 57 | 57 | 31.0 | 053 | 7 |
| 44-007-1005 | 1 | PAWTUCKET | PROVIDENCE CO | SUMMIT ST. SAMPLING STA. | 57 | 72 | 65 | 56 | 55 | 30.1 | 053 | 7 |

Method: Gravimetric, 24-hour Filter Sample, 01 - Low-volume SA244E, 51 - Hi-volume SA321, 52 - Hi-volume SA321A,
 53 - Hi-volume GMW 9000, 54 - Hi-volume W10

| SUSPENDED PARTICULATE | | | | VERMONT | | UNITS: 001 UG/CU METER (25 C) | | | | | | |
|-----------------------|---------------|---------------|---------------------------|---------|---------|-------------------------------|----------|----------|------------|----------|---------|--|
| P | | | | | | | | | | | | |
| O | | | | | | | | | | | | |
| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | MAX 1ST | 24-HR 2ND | OBS> 260 | OBS> 150 | ARITH MEAN | GEO MEAN | GEO STD | |
| 50-003-0003 | 1 BENNINGTON | BENNINGTON CO | ROUTE 7, BENNINGTON | 55 | 77 | 73 | 0 | 0 | 40 | 37 | 1.6 | |
| 50-007-0005 | 1 BURLINGTON | CHITTENDEN CO | 39 PEARL STREET | 59 | 138 | 75 | 0 | 0 | 45 | 41 | 1.5 | |
| 50-017-1001 | 2 RANDOLPH | ORANGE CO | VERMONT TECHNICAL COLLEGE | 55 | 65 | 64 | 0 | 0 | 28 | 26 | 1.5 | |
| 50-021-0004 | 1 RUTLAND | RUTLAND CO | 15-19 WALES STREET | 45 | 183 | 177 | 0 | 2 | 68? | 60? | 1.6 | |
| 50-023-0003 | 1 BARRE | WASHINGTON CO | SOUTH SEMINARY STREET | 56 | 151 | 144 | 0 | 1 | 63 | 57 | 1.6 | |
| 50-025-0003 | 1 BRATTLEBORO | WINDHAM CO | 232 MAIN STREET | 57 | 92 | 90 | 0 | 0 | 43 | 40 | 1.5 | |

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

Method: Gravimetric, 24-hour Hi-volume Filter Sample-91

| CARBON MONOXIDE | | | | VERMONT | | UNITS: 007 PARTS PER MILLION | | | | | | |
|-----------------|--------------|---------------|-------------------|---------|---------|------------------------------|---------|--------------|-----|--------|------|--|
| P | | | | | | | | | | | | |
| O | | | | | | | | | | | | |
| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | MAX 1ST | 1-HR 2ND | OBS> 35 | MAX 8-HR 1ST | 2ND | OBS> 9 | METH | |
| 50-007-0003 | 1 BURLINGTON | CHITTENDEN CO | 82 S.WINOOSKI AVE | 8079 | 11.9 | 10.3 | 0 | 6.6 | 4.7 | 0 | 011 | |

Method: Hourly values, Nondispersive Infrared (NDIR) Continuous-11

| SULFUR DIOXIDE | | | VERMONT | | UNITS: 001 UG/CU METER (25 C) | | | | | | | | | |
|----------------|--------------|---------------|-------------------|------|-------------------------------|-----|-----|-----|----------|------|-----|----------|------|------|
| P | | | | | OBS | | | | | OBS | | | | |
| O | | | | | MAX 24-HR | | | > | MAX 3-HR | | > | MAX 1-HR | | ARIT |
| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | 1ST | 2ND | 365 | 1ST | 2ND | 1300 | 1ST | 2ND | MEAN | METH |
| 50-007-0003 | 2 BURLINGTON | CHITTENDEN CO | 82 S.WINOOSKI AVE | 7784 | 49 | 48 | 0 | 101 | 66 | 0 | 128 | 123 | 15 | 020 |
| 50-021-0002 | 2 RUTLAND | RUTLAND CO | PARKING LOT | 5148 | 101 | 100 | 0 | 218 | 183 | 0 | 280 | 236 | 32? | 020 |
| 50-023-0003 | 2 BARRE | WASHINGTON CO | SOUTH SEMINARY ST | 5355 | 68 | 52 | 0 | 101 | 100 | 0 | 126 | 105 | 19? | 020 |

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

Method: Hourly values, Pulsed Fluorescent-20

NITROGEN DIOXIDE VERMONT UNITS: 007 PARTS PER MILLION

P

O

| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | MAX 1ST | 1-HR 2ND | MAX 1ST | 24-HR 2ND | ARIT MEAN | METH |
|---------------|------------|---------------|----------------------------|------|---------|----------|---------|-----------|-----------|------|
| 50-007-0003 1 | BURLINGTON | CHITTENDEN CO | ADJ. TO 82 S. WINOOSKI AVE | 7845 | .081 | .075 | | | .019 | 014 |

Method: Hourly value, Chemiluminescence-14

=====

OZONE VERMONT UNITS: 007 PARTS PER MILLION

OZONE SEASON: APR TO OCT

P

O

* VALID DAILY 1-HR MAXIMUM * MISS DAYS

| SITE ID | C CITY | COUNTY | ADDRESS | *NUM | NUM | -----MAXIMA----- | 1ST | 2ND | 3RD | 4TH | MEAS | EST | * ASSUMED < | * STANDARD | METH |
|---------------|------------|---------------|--------------|------|-----|------------------|------|------|------|-----|------|-----|-------------|------------|------|
| 50-003-0004 1 | BENNINGTON | BENNINGTON CO | AIRPORT RD | 196 | 214 | .101 | .100 | .095 | .092 | 0 | 0.0 | 1 | 014 | | |
| 50-007-0006 1 | BURLINGTON | CHITTENDEN CO | SPEAR STREET | 205 | 214 | .089 | .089 | .087 | .080 | 0 | 0.0 | 5 | 014 | | |

Method: Hourly values, Ultra Violet Dasibi Corporation-14

=====

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

P

O

| SITE ID | C CITY | COUNTY | ADDRESS | #OBS | 1ST | 2ND | 3RD | 4TH | MAXIMUM VALUES | ARITH MEAN | METH | INT |
|---------------|-------------|---------------|-----------------------|------|-----|-----|-----|-----|----------------|------------|------|-----|
| 50-007-0003 1 | BURLINGTON | CHITTENDEN CO | 82 S.WINOOSKI AVE | 45 | 64 | 48 | 48 | 44 | 27.6? | 000 | 7 | |
| 50-007-0003 2 | BURLINGTON | CHITTENDEN CO | 82 S.WINOOSKI AVE | 6 | 51 | 42 | 38 | 38 | 35.3? | 052 | 7 | |
| 50-007-0003 3 | BURLINGTON | CHITTENDEN CO | 82 S.WINOOSKI AVE | 44 | 68 | 52 | 48 | 44 | 30.1? | 058 | 7 | |
| 50-021-0002 1 | RUTLAND | RUTLAND CO | PARKING LOT | 45 | 78 | 57 | 53 | 48 | 30.6? | 000 | 7 | |
| 50-021-0002 2 | RUTLAND | RUTLAND CO | PARKING LOT | 4 | 57 | 48 | 41 | 24 | 42.5? | 052 | 7 | |
| 50-021-0002 4 | RUTLAND | RUTLAND CO | PARKING LOT | 42 | 83 | 51 | 51 | 44 | 31.5? | 058 | 7 | |
| 50-023-0003 2 | BARRE | WASHINGTON CO | SOUTH SEMINARY STREET | 105 | 75 | 70 | 65 | 65 | 29.8 | 000 | 7 | |
| 50-025-0003 1 | BRATTLEBORO | WINDHAM CO | 232 MAIN STREET | 52 | 62 | 42 | 39 | 39 | 24.8? | 000 | 7 | |

? INDICATES THAT THE MEAN DOES NOT SATISFY SUMMARY CRITERIA

Method: Gravimetric, 24-hour Filter Sample, 01 - Low-volume SA244E, 51 - Hi-volume SA321, 52 - Hi-volume SA321A, 53 - Hi-volume GMW 9000, 54 - Hi-volume W10

TABLE 4

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

| AQCR | AQCR No. | State | TSP | | | PM ₁₀ | | CO | | SO ₂ | | NO ₂ | O ₃ | Pb |
|---------------------------------------|-------------|-------|---|---|--|--------------------------------------|---|--------------------|---------------------|--------------------------------------|--|---|------------------------|--|
| | | | 24-Hour* Secondary 150ug/m ³ | 24-Hour* Primary 260ug/m ³ | Annual Geometric Mean 75ug/m ³ | * 24-hour 150ug/m ³ | Annual Arithmetic Mean 50ug/m ³ | * Hour 35ppm | * 8-Hour 9ppm | * 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 |
| Eastern Connecticut | 041 | CT | 0/5 | 0/5 | 0/5 | --- | --- | --- | --- | 0/1 | 0/1 | --- | 2/2 | 0/5 |
| Hartford New Haven Springfield | 042 | CT | 1/26 | 0/26 | 0/26 | 1/3 | 1/3 | 0/3 | 1/3 | 0/11 | 0/11 | 0/2 | 3/4 | 0/26 |
| Hartford New Haven Springfield | 042 | MA | 0/4 | 0/4 | 1/4 | 0/2 | 0/2 | 0/3 | 0/3 | 0/3 | 0/3 | 0/2 | 0/4 | 0/2 |
| New Jersey New York Connecticut | 043 | CT | 1/14 | 0/14 | 0/14 | 0/1 | 0/1 | 0/2 | 0/2 | 0/8 | 0/8 | 0/2 | 4/4 | 0/14 |
| Northwestern Connecticut | 044 | CT | 0/2 | 0/2 | 0/2 | --- | --- | --- | --- | --- | --- | --- | --- | 0/2 |
| Androscoggin Valley | 107 | ME | 2/18 | 0/18 | 0/18 | 0/4 | 0/4 | --- | --- | 0/6 | 0/6 | --- | 2/3 | 0/1 |
| Androscoggin Valley | 107 | NH | 1/9 | 0/9 | 1/9 | 0/2 | 0/2 | --- | --- | 0/8 | 0/8 | --- | 0/1 | 0/1 |
| Aroostook | 108 | ME | 2/4 | 1/4 | 0/4 | 1/2 | 0/2 | --- | --- | 0/3 | 0/3 | --- | --- | 0/1 |
| Down East | 109 | ME | 6/18 | 0/18 | 0/18 | 0/3 | 0/3 | --- | --- | 0/8 | 0/8 | --- | 0/2 | 0/1 |
| Metropolitan Portland | 110 | ME | 3/10 | 0/10 | 0/10 | 0/4 | 0/4 | 0/1 | 0/1 | 0/1 | 0/1 | --- | 3/3 | 0/2 |

* 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
BY AIR QUALITY CONTROL REGION

| AQCR | AQCR No. | State | TSP | | | PM ₁₀ | | CO | | SO ₂ | | NO ₂ | O ₃ | Pb |
|----------------------------|----------|-------|---|---|--|--------------------------------------|---|--------------------|---------------------|--------------------------------------|--|---|------------------------|--|
| | | | 24-Hour* Secondary 150ug/m ³ | 24-Hour* Primary 260ug/m ³ | Annual Geometric Mean 75ug/m ³ | * 24-hour 150ug/m ³ | Annual Arithmetic Mean 50ug/m ³ | * Hour 35ppm | * 8-Hour 9ppm | * 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 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0/2 | --- |
| Berkshire | 117 | MA | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Central Massachusetts | 118 | MA | 0/2 | 0/2 | 0/2 | 0/1 | 0/1 | 0/1 | 0/1 | 0/2 | 0/2 | 0/1 | 0/1 | 0/1 |
| Metropolitan Boston | 119 | MA | 2/9 | 1/9 | 2/9 | 0/3 | 0/3 | 0/4 | 0/4 | 0/4 | 0/4 | 0/3 | 2/3 | 0/2 |
| Metropolitan Providence | 120 | MA | 0/3 | 0/3 | 0/3 | --- | --- | --- | --- | 0/1 | 0/1 | --- | 0/4 | --- |
| Metropolitan Providence | 120 | RI | 1/12 | 0/12 | 0/12 | 0/2 | 0/2 | 0/2 | 0/2 | 0/3 | 0/3 | 0/1 | 2/2 | 0/5 |
| Merrimack Valley | 121 | MA | 0/2 | 0/2 | 0/2 | 0/1 | 0/1 | --- | --- | 0/1 | 0/1 | --- | 1/2 | 0/1 |
| Merrimack Valley | 121 | NH | 0/12 | 0/12 | 0/12 | 0/1 | 0/1 | 0/2 | 1/2 | 0/6 | 0/6 | 0/1 | 1/5 | 0/7 |
| Central New Hampshire | 149 | NH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Champlain Valley | 159 | VT | 1/2 | 0/2 | 0/2 | 0/2 | 0/2 | 0/1 | 0/1 | 0/2 | 0/2 | 0/1 | 0/1 | --- |
| Vermont | 221 | VT | 0/4 | 0/4 | 0/4 | 0/2 | 0/2 | --- | --- | 0/1 | 0/1 | --- | 0/1 | --- |

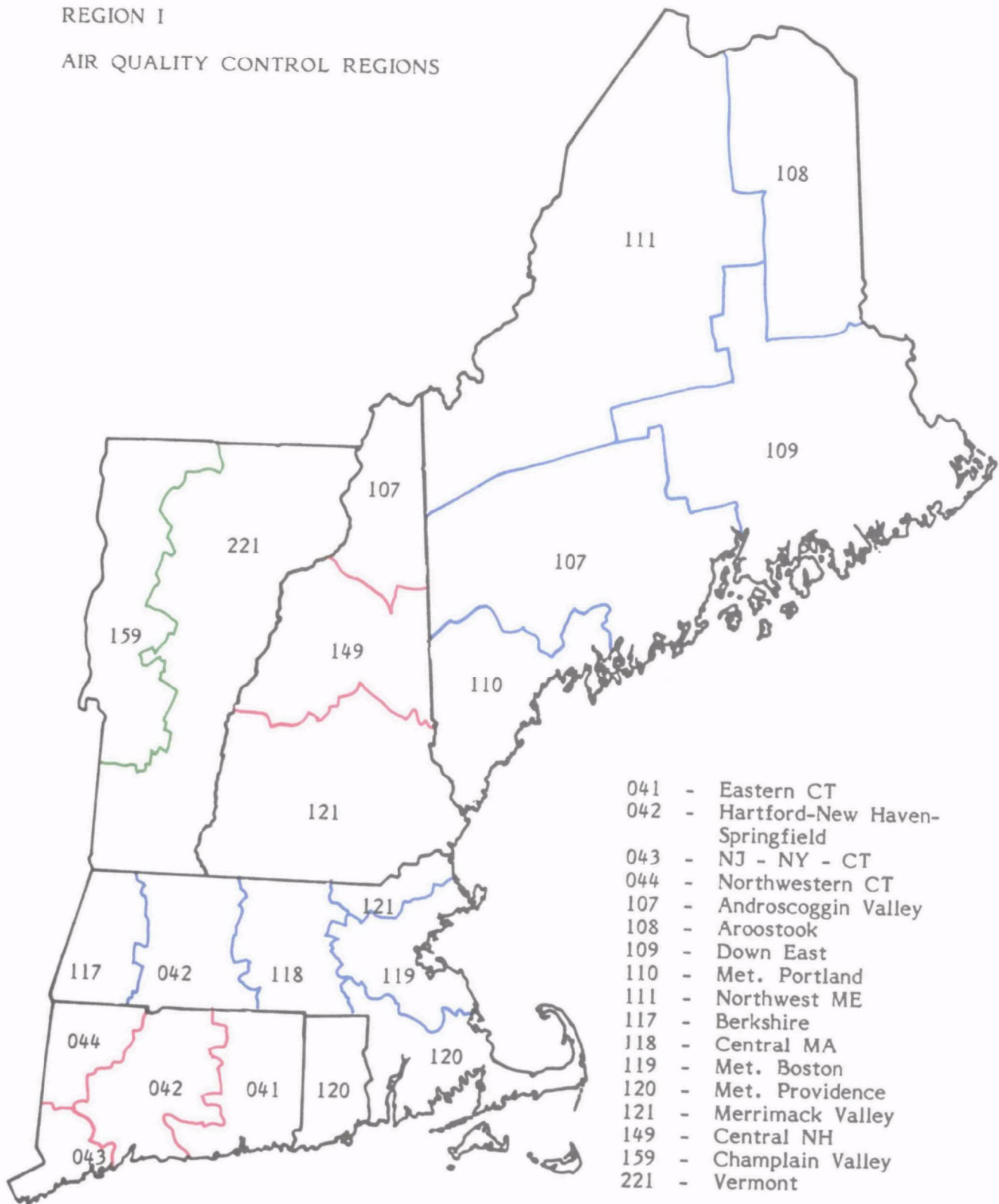
* Unless the second highest average exceeds the NAAQS, there is no violation.

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).

REGION I

AIR QUALITY CONTROL REGIONS



- 041 - Eastern CT
- 042 - Hartford-New Haven-Springfield
- 043 - NJ - NY - CT
- 044 - Northwestern CT
- 107 - Androscoggin Valley
- 108 - Aroostook
- 109 - Down East
- 110 - Met. Portland
- 111 - Northwest ME
- 117 - Berkshire
- 118 - Central MA
- 119 - Met. Boston
- 120 - Met. Providence
- 121 - Merrimack Valley
- 149 - Central NH
- 159 - Champlain Valley
- 221 - Vermont

TABLE 5

STATIONS WHERE READINGS EXCEEDED EPISODE LEVELS

January-December 1987
Total Suspended Particulates

| Standard | State | AOCR | City (Address) | Site No. | Mo./Day | Duration | Highest Level Reached |
|-----------------------|-------|------|-------------------|----------|---------|----------|--------------------------|
| Emergency | | | | | | | |
| 24-hour avg. | None | | | | | | |
| 875 ug/m ³ | | | | | | | |
| Warning | | | | | | | |
| 24-hour avg. | None | | | | | | |
| 625 ug/m ³ | | | | | | | |
| Alert | | | | | | | |
| 24-hour avg. | None | | | | | | |
| 375 ug/m ³ | | | | | | | |

January-December 1987
PM₁₀

| Standard | State | AOCR | City (Address) | Site No. | Mo./Day | Duration | Highest Level Reached |
|-----------------------|-------|------|-------------------|----------|---------|----------|--------------------------|
| Emergency | | | | | | | |
| 24-hour avg. | None | | | | | | |
| 500 ug/m ³ | | | | | | | |
| Warning | | | | | | | |
| 24-hour avg. | None | | | | | | |
| 420 ug/m ³ | | | | | | | |
| Alert | | | | | | | |
| 24-hour avg. | None | | | | | | |
| 350 ug/m ³ | | | | | | | |

January-December 1987
Nitrogen Dioxide

| Standard | State | AOCR | City (Address) | Site No. | Mo./Day | Duration | Highest Level Reached |
|------------------------|-------|------|-------------------|----------|---------|----------|--------------------------|
| Emergency | | | | | | | |
| 1.6ppm - 1-hour avg. | None | | | | | | |
| 0.4ppm - 24-hour avg. | | | | | | | |
| Warning | | | | | | | |
| 1.2ppm - 1-hour avg. | None | | | | | | |
| 0.3ppm - 24-hour avg. | | | | | | | |
| Alert | | | | | | | |
| 0.6ppm - 1-hour avg. | None | | | | | | |
| 0.15ppm - 24-hour avg. | | | | | | | |

TABLE 5 (Continued)

STATIONS WHERE READINGS EXCEEDED EPISODE LEVELS

January-December 1987
Carbon Monoxide

| Standard | State | AOCR | City (Address) | Site No. | Mo./Day | Duration | Highest Level Reached |
|--|-------|------|--|-------------|---------|----------|--------------------------|
| Emergency 8-hour avg. 46 mg/m ³ | None | | | | | | |
| Warning 8-hour avg. 34 mg/m ³ | None | | | | | | |
| Alert 8-hour avg. 17 mg/m ³ | CT | 042 | Courthouse 155 Morgan St. Hartford, CT | 09-003-0017 | 2/2+3 | 5 hours | 18.1 |

January-December 1987
Sulfur Dioxide

| Standard | State | AOCR | City (Address) | Site No. | Mo./Day | Duration | Highest Level Reached |
|--|-------|------|-------------------|----------|---------|----------|--------------------------|
| Emergency 3-hour avg. 2100 ug/m ³ | None | | | | | | |
| Warning 3-hour avg. 1600 ug/m ³ | None | | | | | | |
| Alert 3-hour avg. 800 ug/m ³ | None | | | | | | |

January-December 1987
Ozone

| Standard | State | AOCR | City (Address) | Site No. | Mo./Day | Duration | Highest Level Reached |
|----------------------------------|-------|------|-------------------|----------|---------|----------|--------------------------|
| Alert 1-hour avg. 0.204ppm | None | | | | | | |

1987 PRECISION AND ACCURACY DATA

Current Federal Regulations require that each state report both precision and accuracy data from National Air Monitoring sites (NAMS) and State/Local Monitoring Sites (SLAMS). Tables 6 and 7 list the precision and accuracy data submitted by the six New England States. The data listed in these tables are calculated from a known standard and are arithmetic averages of quarterly summary data. The accuracy data in Table 7 are only for the lowest report concentration range. For TSP, the accuracy limits apply only to the flow measurement, and the precision limits are the 95% confidence limits between co-located monitors.

From these tables, CO has the lowest probability limits; they are generally within $\pm 10\%$. All the other pollutants reported are, in general, within approximately $\pm 17\%$. Although no acceptance criteria have been set by EPA to date, Region I expects this type of performance to be satisfactory. For comparison, the 1986 National Statistics are also included in Tables 6A and 7A.

Several States have shown a deterioration in these parameters. This is primarily a result of aging equipment.

TABLE 6

1987 PRECISION DATA FOR NEW ENGLAND
ANNUAL AVERAGE PROBABILITY LIMITS IN PERCENT

| | CT* | ME | MA | NH | RI | VT |
|------------------|------------|------------|------------|------------|------------|------------|
| SO ₂ | -09 to +08 | -13 to +08 | -16 to +08 | -12 to +10 | -09 to +06 | -11 to +04 |
| CO | -09 to +07 | -03 to +02 | -04 to +05 | -09 to +06 | -04 to +07 | -05 to +01 |
| NO ₂ | -10 to +08 | — | -13 to +10 | — | -02 to +11 | — |
| O ₃ | -09 to +07 | -09 to +09 | -09 to +08 | | -11 to +01 | -04 to +04 |
| TSP | -09 to +11 | -08 to +12 | -15 to +15 | -08 to +15 | -10 to +13 | -06 to +05 |
| Pb (analysis) | ** | -12 to +10 | -16 to +17 | — | -07 to +06 | — |

* partial data

** insufficient data

TABLE 6A

1986 NATIONAL STATISTICS

| | |
|-----------------|------------|
| SO ₂ | -10 to +10 |
| CO | -09 to +09 |
| NO ₂ | -11 to +11 |
| O ₃ | -10 to +08 |
| TSP | -12 to +13 |
| Pb | -20 to +20 |

TABLE 7

1987 ACCURACY DATA FOR NEW ENGLAND ANNUAL AVERAGE PROBABILITY LIMITS
FOR THE LOWEST CONCENTRATION (CONTINUOUS METHODS),
FLOW RATE (TSP), AND ANALYSIS (Pb) REPORTED IN PERCENT

| | CT* | ME | MA | NH | RI | VT |
|-----------------|------------|------------|------------|------------|------------|------------|
| SO ₂ | -08 to +08 | -08 to +13 | -13 to +13 | | -12 to +11 | -08 to +07 |
| CO | -10 to +06 | -14 to +07 | -06 to +10 | -10 to +02 | -01 to +09 | -15 to +09 |
| NO ₂ | ** | — | -13 to +14 | — | -22 to +24 | — |
| O ₃ | -08 to +06 | -11 to +11 | -09 to +03 | -05 to +10 | -04 to +05 | -13 to +09 |
| TSP | -06 to +03 | -03 to +08 | -08 to +05 | -07 to +07 | -06 to +05 | -05 to +04 |
| Pb | -07 to +02 | -12 to +17 | -17 to +15 | — | -11 to +08 | — |

* Partial data

** Insufficient data

TABLE 7A

1986 NATIONAL STATISTICS

| | |
|-----------------|------------|
| SO ₂ | -13 to +12 |
| CO | -08 to +08 |
| NO ₂ | -13 to +11 |
| O ₃ | -17 to +16 |
| TSP | -08 to +08 |
| Pb | -11 to +09 |

REGION I 1987 PERFORMANCE AUDIT PROGRAM

Region I conducts an audit program to determine the performance of ambient air monitoring systems and to provide their operators with technical assistance in improving data quality. Continuous air monitors are audited by allowing them to sample gas mixtures containing known concentrations of specific pollutants and noting the analyzers' responses. High-volume air samplers for TSP, lead and inhalable particulates (PM₁₀) are audited by attaching a flow reference device and comparing a known air flow rate with the rate recorded or indicated by the sampler.

A total of 74 audits were conducted in the six New England states for particulates (TSP, lead, and PM₁₀), SO₂, CO, NO₂ and ozone by personnel from Region I. In general, the results were very good with 70 audits (95%) satisfactory, 3 audits (4%) marginal, and only 1 audit (1%) unsatisfactory. These results are similar to those achieved in 1986.

Particulate sampler audit results were relatively unchanged from 1986, during which 4% of the audits were marginal and 3% were unsatisfactory. In 1987, 5% were marginal, and 3% were unsatisfactory.

Sulfur Dioxide and ozone audits were generally good in all six states.

Table 8 summarizes the results of the audit program on a state-by-state basis.

TABLE 8

REGION 1 PERFORMANCE AUDIT PROGRAM¹ - 1987

| <u>Pollutant/Parameter</u> | <u>CT</u> | <u>ME</u> | <u>MA</u> | <u>NH</u> | <u>RI</u> | <u>VT</u> |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| <u>Particulates²</u> | | | | | | |
| Number of Audits | 9 | 15 | 16 | 0 | 0 | 8 |
| Number of Satisfactory Audits | 8 | 14 | 15 | 0 | 0 | 8 |
| Number of Marginal Audits | 1 | 1 | 0 | 0 | 0 | 0 |
| Number of Unsatisfactory Audits | 0 | 0 | 1 | 0 | 0 | 0 |
| <u>SO₂</u> | | | | | | |
| Number of Audits | 2 | 0 | 3 | 1 | 0 | 3 |
| Number of Satisfactory Audits | 2 | 0 | 3 | 1 | 0 | 3 |
| Number of Marginal Audits | 0 | 0 | 0 | 0 | 0 | 0 |
| Number of Unsatisfactory Audits | 0 | 0 | 0 | 0 | 0 | 0 |
| <u>CO</u> | | | | | | |
| Number of Audits | 0 | 0 | 0 | 0 | 0 | 1 |
| Number of Satisfactory Audits | 0 | 0 | 0 | 0 | 0 | 1 |
| Number of Marginal Audits | 0 | 0 | 0 | 0 | 0 | 0 |
| Number of Unsatisfactory Audits | 0 | 0 | 0 | 0 | 0 | 0 |
| <u>NO₂</u> | | | | | | |
| Number of Audits | 0 | 0 | 0 | 0 | 0 | 1 |
| Number of Satisfactory Audits | 0 | 0 | 0 | 0 | 0 | 1 |
| Number of Marginal Audits | 0 | 0 | 0 | 0 | 0 | 0 |
| Number of Unsatisfactory Audits | 0 | 0 | 0 | 0 | 0 | 0 |
| <u>O₃</u> | | | | | | |
| Number of Audits | 8 | 0 | 3 | 2 | 2 | 0 |
| Number of Satisfactory Audits | 7 | 0 | 3 | 2 | 2 | 0 |
| Number of Marginal Audits | 1 | 0 | 0 | 0 | 0 | 0 |
| Number of Unsatisfactory Audits | 0 | 0 | 0 | 0 | 0 | 0 |

¹Seven of the reported audits were performed by an EPA contractor (RTI). The remainder were done by Region I personnel. Includes only state operated NAMS, SLAMS, and special study monitors.

²Flow rate audits of high-volume air samplers including those sampling for lead, TSP, and PM₁₀.

Satisfactory audit is defined as an average percent difference less than 6% for TSP; 10% for SO₂, CO, and O₃; and 15% for NO₂.

Marginal audit is defined as an average percent difference between 6 - 10% for TSP; 10 - 15% for SO₂, CO, and O₃; and 15 - 20% for NO₂.

Unsatisfactory audit is defined as an average percent difference of greater than 10% for TSP; 15% for SO₂, CO, and O₃; and 20% for NO₂.

TABLE 9

REGION I NONATTAINMENT AREAS

AS OF DECEMBER 31, 1987

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 Last Reported Violation to NAAQS | |
|--|---|-------------------------|
| <u>CONNECTICUT</u> | | |
| - Secondary 24-hour Standards for TSP | | |
| AQCR 41 | 1976 | 163 ug/m ³ a |
| AQCR 42 | 1987 | 205 ug/m ³ |
| AQCR 43 | 1987 | 154 ug/m ³ |
| AQCR 44 | 1986 | 449 ug/m ³ |
| - Primary 8-hour Standards for CO | | |
| AQCR 42 | 1987 | 11.4 ppm |
| AQCR 43 (Exceedence only) | 1986 | 12.5 mg/m ³ |
| - Primary 1-hour Standard for O ₃ | | |
| AQCR 41 | 1987 | 0.159 ppm |
| AQCR 42 | 1987 | 0.167 ppm |
| AQCR 43 | 1987 | 0.174 ppm |
| AQCR 44 | 1980 | 0.211 ppm |
| -Primary 24-hour Standard for PM ₁₀ * | | |
| AQCR 42 New Haven | 1987 | 202 ug/m ³ |
| <u>MAINE</u> | | |
| - Secondary Standards for TSP | | |
| AQCR 107 Augusta (Exceedence only) | 1987 | 185 ug/m ³ |
| AQCR 109 | | |
| Woodland | 1987 | 186 ug/m ³ |
| Bangor-Brewer | 1987 | 153 ug/m ³ |
| Lincoln | 1987 | 153 ug/m ³ |
| - Primary 24-hour Standard for SO ₂ | | |
| AQCR 109 Millinocket | 1980 | 548 ug/m ³ |
| - Primary 24-hour Standards for O ₃ | | |
| AQCR 107 | 1987 | 0.142 ppm |
| AQCR 110 | 1987 | 0.141 ppm |
| -Primary 24-hour Standard for PM ₁₀ | | |
| AQCR 108 | 1987 | 172 ug/m ³ |

a This site does not meet EPA TSP siting criteria, TSP monitor collocated with PM₁₀ monitor for special study only.

b Exceedence only: No violations in the last five years.

* Group 1 area - not technically a nonattainment area.

TABLE 9 (Continued)

REGION I NONATTAINMENT AREAS
AS OF DECEMBER 31, 1987MASSACHUSETTS

- Secondary 24-hour Standards for TSP

| | | |
|--|------|-------------------------|
| AQCR 042 Springfield | 1987 | 199 ug/m ³ a |
| AQCR 117 | | |
| Adams b | 1977 | 152 ug/m ³ |
| North Adams b | 1977 | 197 ug/m ³ |
| Pittsfield (Exceedence only) | 1986 | 152 ug/m ³ |
| AQCR 118 | | |
| Athol b | 1980 | 158 ug/m ³ |
| Worcester | 1981 | 156 ug/m ³ |
| AQCR 119 | | |
| Cambridge b | 1978 | 237 ug/m ³ |
| Danvers b | 1975 | 185 ug/m ³ |
| Framingham | 1973 | 151 ug/m ³ |
| Lynn b | 1975 | 159 ug/m ³ |
| Marblehead b | 1975 | 171 ug/m ³ |
| Medford b | 1978 | 167 ug/m ³ |
| Norwood b | 1973 | 235 ug/m ³ |
| Peabody b | 1977 | 190 ug/m ³ |
| Quincy b | 1982 | 182 ug/m ³ |
| Revere b | 1980 | 166 ug/m ³ |
| Swampscott (No sites at this location) | | |
| Waltham | 1978 | 184 ug/m ³ |
| AQCR 120 Fall River | 1975 | 188 ug/m ³ |
| AQCR 121 | | |
| Haverhill | 1975 | 163 ug/m ³ |
| Lawrence (Exceedence only) | 1978 | 172 ug/m ³ |

- Primary 8-hour Standards for CO

| | | |
|--|------|-------------------------|
| AQCR 042 Springfield (Exceedence only) | 1987 | 9.5 ppm |
| AQCR 118 Worcester (Exceedence only) | 1986 | 16.7 mcg/m ³ |
| AQCR 119 | | |
| Boston | 1986 | 11.2 mcg/m ³ |
| Cambridge | 1978 | 10.9 mcg/m ³ |
| Medford | 1980 | 12.2 mcg/m ³ |
| Quincy | 1977 | 10.9 mcg/m ³ |
| Waltham | 1978 | 10.6 mcg/m ³ |
| AQCR 121 Lowell | 1984 | 12.8 mcg/m ³ |

a This site does not meet EPA TSP siting criteria, TSP monitor collocated with PM₁₀ monitor for special study only.

b Exceedence only: No violations in the last five years.

TABLE 9 (Continued)

REGION I NONATTAINMENT AREAS
AS OF DECEMBER 31, 1987MASSACHUSETTS

| | | |
|--|------|-----------|
| - Primary 1-hour Standard for O ₃ | | |
| AQCR 042 (Exceedence only) | 1987 | 0.141 ppm |
| AQCR 117 | 1983 | 0.135 ppm |
| AQCR 118 | 1985 | 0.140 ppm |
| AQCR 119 | 1987 | 0.138 ppm |
| AQCR 120 (Exceedence only) | 1987 | 0.136 ppm |
| AQCR 121 | 1987 | 0.127 ppm |

New Hampshire

| | | |
|--|------|------------------------|
| - Primary 24-hour Standard for TSP | | |
| AQCR 107 Metropolitan Berlin | 1986 | 224 ug/m ³ |
| - Secondary 24-hour Standard for TSP | | |
| AQCR 121 Metropolitan Manchester | 1980 | 156 ug/m ³ |
| - Primary 8-hour Standard for CO | | |
| AQCR 121 | | |
| City of Manchester | 1987 | 10.3 ppm |
| Nashua | 1986 | 11.8 mg/m ³ |
| - Primary 1-hour Standard for O ₃ | | |
| AQCR 121 | 1987 | 0.155 ppm |

RHODE ISLAND

| | | |
|--|------|------------------------|
| - Secondary 24-hour Standard for TSP | | |
| AQCR 120 Providence | 1987 | 163 ug/m ³ |
| - Primary 8-hour Standard for CO | | |
| AQCR 120 Providence (Exceedence only) | 1986 | 10.7 mg/m ³ |
| - Primary 1-hour Standard for O ₃ | | |
| AQCR 120 | 1987 | 0.162 ppm |

VERMONT

| | | |
|--------------------------------------|------|-----------------------|
| - Secondary 24-hour Standard for TSP | | |
| AQCR 159 | | |
| Burlington and adjacent | | |
| cities and towns | 1984 | 156 ug/m ³ |
| AQCR 221 Barre | 1987 | 151 ug/m ³ |

TABLE 10

REGION I ATTAINMENT AND UNCLASSIFIED AREAS AS OF
DECEMBER 31, 1987, WITH VIOLATIONS IN THE LAST THREE YEARS

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 Last Reported Violation to NAAQS | |
|--|---|-----------------------|
| <u>MAINE</u> | | |
| - Primary 24-hour Standard for TSP | | |
| AQCR 107 (Exceedence only) | 1987 | 261 ug/m ³ |
| AQCR 108 | 1987 | 342 ug/m ³ |
| - Secondary 24-hour Standard for TSP | | |
| AQCR 107 | | |
| Lewiston-Auburn (Exceedence only) | 1986 | 156 ug/m ³ |
| Oxford County | 1986 | 213 ug/m ³ |
| Winslow | 1987 | 155 ug/m ³ |
| Jay (Exceedence only) | 1987 | 175 ug/m ³ |
| Waterville (Exceedence only) | 1987 | 161 ug/m ³ |
| AQCR 108 | | |
| Madawaska | 1987 | 231 ug/m ³ |
| Presque Isle | 1987 | 334 ug/m ³ |
| AQCR 109 | | |
| Millinocket | 1987 | 176 ug/m ³ |
| Old Town (Exceedence only) | 1987 | 198 ug/m ³ |
| Bucksport | 1987 | 181 ug/m ³ |
| AQCR 110 | | |
| Berwick | 1987 | 183 ug/m ³ |
| Westbrook | 1987 | 227 ug/m ³ |
| Portland (Exceedence only) | 1987 | 160 ug/m ³ |
| AQCR 111 Jay | 1984 | 160 ug/m ³ |
| - Primary 1-hour Standard for O ₃ | | |
| AQCR 109 (Exceedence only) | 1987 | 0.130 ppm |
| <u>MASSACHUSETTS</u> | | |
| - Primary 24-hour Standard for TSP | | |
| AQCR 119 Boston | 1987 | 290ug/m ³ |
| - Secondary 24-hour Standard for TSP | | |
| AQCR 119 Boston | 1987 | 290 ug/m ³ |

TABLE 10 (Continued)

REGION I ATTAINMENT AND UNCLASSIFIED AREAS AS OF
DECEMBER 31, 1987, WITH VIOLATIONS IN THE LAST THREE YEARS

All values listed are the second highest values reported.
Only data currently in the EPA system are listed.

New Hampshire

| | | |
|--------------------------------------|------|-----------------------|
| - Secondary 24-hour Standard for TSP | | |
| AQCR 107 | 1987 | 194 ug/m ³ |
| AQCR 121 | | |
| Hollis (Exceedence only) | 1986 | 188 ug/m ³ |
| Nashua (Exceedence only) | 1986 | 172 ug/m ³ |

VERMONT

| | | |
|--------------------------------------|------|-----------------------|
| - Primary 1-hour Standard for TSP | | |
| AQCR 159 Rutland (Exceedence only) | 1986 | 278 ug/m ³ |
| - Secondary 24-hour Standard for TSP | | |
| AQCR 159 Rutland | 1987 | 177 ug/m ³ |

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.

1987 CONNECTICUT AMBIENT AIR QUALITY SUMMARY

TSP/PM₁₀

The highest annual geometric mean for TSP was measured in Hartford at 63 ug/m³ or 84% of the annual primary NAAQS. Annual geometric means were 76% of the standard in Waterbury, 71% in Norwalk. The maximum second highest daily average was measured in Hartford and was 79% of the primary daily NAAQS.

There are four PM₁₀ sites, in Bridgeport, New Haven, Waterbury and West Haven. Only the site in New Haven reported levels above the new PM₁₀ annual standard. The other sites' values ranged from 61% to 67% of the new standard.

Pb

There were no violations of the NAAQS reporting in 1987. The highest quarterly average was measured in New Haven at 15% of the NAAQS. Waterbury had the second highest quarterly average at 9% of the standard. In general, lead levels are lower than those reported in 1986, 1985, and 1984.

CO

There were no exceedences of violations of the 1 hour NAAQS reported in 1987. Hartford reported violations of the 8-hour NAAQS. In total, seven 8-hour violations were reported in 1987. The CO trend plot shows a slight downward trend in mean CO levels over the past five years, in Hartford.

SO₂

No violations or exceedences to the NAAQS were reported in 1987. The maximum SO₂ annual averages occurred in New Haven at 50% and 45% of the standard. The highest second high 24-hour average occurred in New Haven at 49% of the NAAQS. The SO₂ trend plot shows and increase in mean SO₂ levels in New Haven over the past five years.

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 1986, 1985 and 1984.

O₃

Every site in Connecticut measured either exceedences or violations of the primary NAAQS, except one site in East Hartford. The highest second high daily maximum reading during 1987 was .174 ppm, which occurred in Stratford. The O₃ trend plot shows the five year trend in readings over the NAAQS for the Stratford site.

1987 MAINE AMBIENT AIR QUALITY SUMMARY

TSP/PM₁₀

A Primary National Ambient Air Quality Standards (NAAQS) TSP violation and three exceedences were measured in Maine. The violation was in Presque Isle. Secondary TSP standards violations were reported in Bucksport, Winslow, Thomaston, Millinocket, Auburn, Bangor, Madawaska, Oxford County, Presque Isle, Washington County, and Westbrook. Exceedences were reported in Augusta, Berwick, Lincoln and Portland. There were no violations of the annual standard. The annual geometric mean was 71% of the NAAQS in Bangor, and 59% in Presque Isle. The TSP sites with the best air quality were Acadia National Park and Bridgton which both reported levels of 17% of the annual NAAQS.

Thirteen sites were operated to measure PM₁₀. Only Presque Isle had a violation of the standard. There was one exceedence measured in Madawaska.

Lead

There were no violations of the quarterly lead NAAQS. The highest statewide concentration was measured in Portland and was 18% of the standard. Maximum levels, measured in Bangor and Presque Isle, were approximately 8% of the standard. Lead levels generally followed a decreasing trend throughout the State.

CO

The only CO monitoring site in the State is located in Portland. There were no violations to the Maximum 1-hour standard measured levels were 24% of the national standard. The maximum 8-hour measurement was 63% of the standard. The five year trend in Portland shows a very slight upward trend.

S02

There were no violations or exceedences of the standard in 1987. The highest annual arithmetic mean was in Lewiston, at 29% of the standard. The highest 24-hour average was in Rumford, at 70% of the standard. The five year trend in Lewiston shows a decreasing trend, which is consistant with previous years.

NO2

Maine is not required to monitor NO2.

O3

Of the ten sites operated in Maine, seven monitors had exceedences or violations of the NAAQS.

The highest value recorded (.156 ppm) was measured at the Cape Elizabeth site. The value was 130% of the NAAQS. The site measuring the lowest values is located in Bigelow. This site measured a maximum value of .079 ppm or 66% of the NAAQS. The five year trend of the number of days over the NAAQS shows a consistant pattern for the last five years of 1 to 4 days per year over the standard.

1987 MASSACHUSETTS AMBIENT AIR QUALITY SUMMARY

TSP/PM₁₀

The primary annual and the secondary 24-hour TSP NAAQS were violated at only one site in Massachusetts, the City Square site in the Charlestown section of Boston. Two other sites, the Southhampton Street site in Boston and the East Columbus Avenue site in Springfield, reported violations to the secondary 24-hour NAAQS. TSP sites with the highest annual geometric means were located in Boston, measuring 143% and 84% of the NAAQS. The highest second maximum daily TSP values were measured in Boston at 112% of the secondary NAAQS. The lowest TSP levels were measured at a rural background site in Ware with levels at 21% of the primary annual geometric mean, and 23% of the secondary NAAQS.

For PM₁₀ there are seven sites operating in Boston, Lawrence, Springfield and Worcester. No sites are in violation of the new PM₁₀ standard.

Lead

Routine monitoring for lead began in 1982 with sites established in Boston, Lowell, Springfield and Worcester. No violations to the quarterly lead NAAQS have been reported from the present network to date. Maximum quarterly lead levels decreased from 1985 and 1986 levels at all sites. The highest site in the State was in Springfield with a maximum quarterly average of 11% of the NAAQS. Maximum quarterly lead levels from other urban areas in the state ranged from 3% to 8% of the NAAQS.

CO

No exceedences to the 1-hour NAAQS were reported for the seven sites which monitored CO in the State for 1987. One site in Worcester and one in Springfield reported exceedences of the 8-hour standard.

The highest second maximum 1-hour average for the State in 1987 was measured at the Central Street Fire Station in Worcester, at 49% of the 1-hour NAAQS. The highest second maximum 8-hour average for the State was measured at the East Columbus Ave site in Springfield, at 99% of the NAAQS.

SO₂

There were no violations of the NAAQS at any of the eleven sites which reported SO₂ data for 1987 in Massachusetts. Maximum SO₂ levels for Massachusetts on an annual basis were reported in Boston at the Kenmore Square site at 55% of the the annual NAAQS. Minimum SO₂ levels on an annual basis were measured in Ware at 15% of the NAAQS. Highest second maximum daily SO₂ levels were reported for Fall River and Springfield at 38% of the NAAQS.

NO₂

In 1987, six sites collected NO₂ data in Massachusetts. The maximum site in the State was located in Kenmore Square, Boston, where the annual mean was 76% of the NAAQS.

O₃

As in past years, ozone violations were reported throughout Massachusetts for 1987. Exceedances were recorded at eight out of fourteen sites which operated in 1987. The maximum daily value for 1987 in Massachusetts was recorded in Sudbury at .143 ppm.

1987 NEW HAMPSHIRE AMBIENT AIR QUALITY SUMMARY

TSP/PM₁₀

New Hampshire had no violations or exceedences of the primary TSP NAAQS in 1987. There were one violation and two exceedences of the secondary standard.

The air quality in Berlin is influenced by manufacturing activity at a local paper mill. The annual geometric means for other areas in New Hampshire were 55% of the standard in Manchester, 53% in Nashua and 76% in Portsmouth. Background levels in Hollis are 39% of the annual standard.

Three PM₁₀ sites were operated in New Hampshire in 1987. Three in Berlin, one in Manchester (with two samplers), and a new site in Portsmouth. None reported any violations of the standards.

Lead

There were no lead violations reported in 1987 at the eight sites which monitor this pollutant in New Hampshire. The highest site--a microscale site in Concord--reported a maximum quarterly average which was 6% 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 NAAQS were reported in 1987; however, a total of four violations of the 8-hour NAAQS were monitored in Manchester for 1987, compared to nine violations reported for 1986. The maximum 8-hour level was 116% of the standard in 1987. For Manchester, the frequency of violations decreased in 1987 while the magnitude of the violations increased significantly.

SO₂

No violations of the NAAQS were monitored in 1987. The last violation measured in New Hampshire occurred in 1980 at a site in Berlin.

NO₂

Only one site in Manchester collected NO₂ data in 1987. This site was 40% of the annual arithmetic mean.

O₃

There were two sites with violations for O₃ and another with an exceedence of the 1-hour standard. The highest 1-hour maximum was in Rye Harbor at 150% of the standard.

1987 RHODE ISLAND AMBIENT AIR QUALITY SUMMARY

TSP/PM₁₀

For TSP, one violation and two exceedences of the secondary 24-hour NAAQS were reported in 1987; all were measured in Providence. An annual geometric mean equal to the annual secondary standard was reported at the Health Dept. Parking Lot (State Street) site. This value is equivalent to 80% of the primary TSP annual standard. The Sabin St. site, also in Providence, had the highest 24-hour average, at 84% of the primary 24-hour TSP standard. The lowest levels in the state were measured at the University of Rhode Island's Alton Jones campus. At 24% of the primary annual NAAQS and 25% of the 24-hour standard, these background levels are slightly lower than last years.'

For PM₁₀, two sites in Providence and Pawtucket were operated. Both sites reported levels below standards.

Lead

There were no calendar quarter arithmetic means measured which were greater either than the primary or the secondary NAAQS in 1987. The second highest quarterly average occurred at Westminster Street at 9% of the standard. Pb levels have shown a decrease from 1982 to 1987.

CO

There were no exceedences of the 1-hour NAAQS in 1987. CO levels measured at the Dorrance Street site in Providence continue to show a downward trend.

SO₂

No violations of NAAQS were reported in Rhode Island over the past six years. The second highest 24-hour value was reported in Providence at 43% of the 24-hour standard. Levels at the Dorrance Street site showed no significant increase over those measured in 1986.

NO₂

The only NO₂ site in Rhode Island, located in Providence, reported an annual average which was 50% of the standard. This annual average equaled last year's value.

O₃

The highest second high daily maximum value reported in Kent County (Alton Jones) was .162 ppm, (130% of the NAAQS) which is the same as the 1986 value of .162 ppm. The highest second high daily maximum value in Providence was .135 ppm or approximately 108% of the NAAQS. Seven days were measured over the standard at the Alton Jones site, while 2 days over the standard were measured at the Rockefeller Library site in Providence. The five year trend illustrated is for the Alton Jones site.

1987 VERMONT AMBIENT AIR QUALITY SUMMARY

TSP/PM₁₀

There was one exceedence and one violation of the secondary TSP 24-hour standards (150 ug/m³) observed in Vermont for 1987. The violation occurred at the Rutland site where a value of 183 ug/m³ was recorded. The next highest value at this site was 177 ug/m³. The exceedence occurred at the Barre site, where the value was 151 ug/m³. Maximum 24-hour TSP levels for the rest of Vermont were below the NAAQS. The 1987 daily maxima for each of these sites ranged from 138 ug/m³ in Burlington to 65 ug/m³ in Randolph. The annual geometric mean for Barre was 76% of the primary annual NAAQS, while Burlington TSP levels averaged 55% of the standard. Levels at the remaining sites were all less than 53% of the standard with the lowest levels measured at the Randolph site, at 35% of the standard.

For PM₁₀, eight sites are being operated. All show attainment.

Lead

Vermont is not required to and does not operate a monitoring network for lead.

CO

Carbon monoxide is monitored only in Burlington. Maximum levels at this site were 34% of the 1-hour NAAQS and 73% of the 8-hour standard. These levels were lower than 1986 maxima. The five year trend line for Burlington shows a slight upward trend.

SO₂

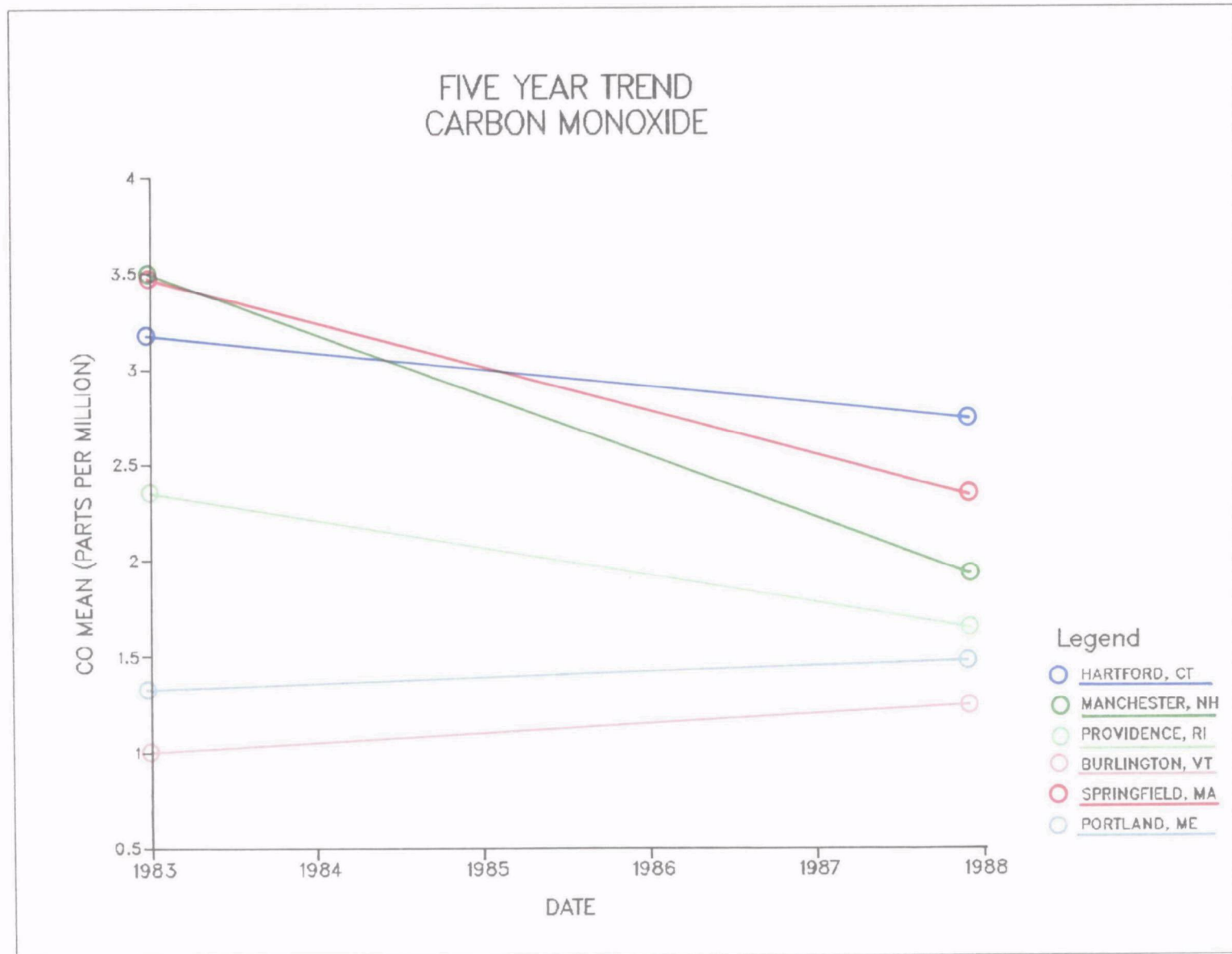
The Burlington site is the only site which monitors SO₂ year-round in Vermont. Levels at this site for 1987 were 13% of the daily NAAQS and 19% of the annual NAAQS. Monitors in Barre and Rutland operate from September through April each heating season. Maximum levels at these two sites were 19% of the daily standard in Barre and 28% of the daily standard in Rutland. The five year trend line for Burlington shows a slight downward trend.

NO₂

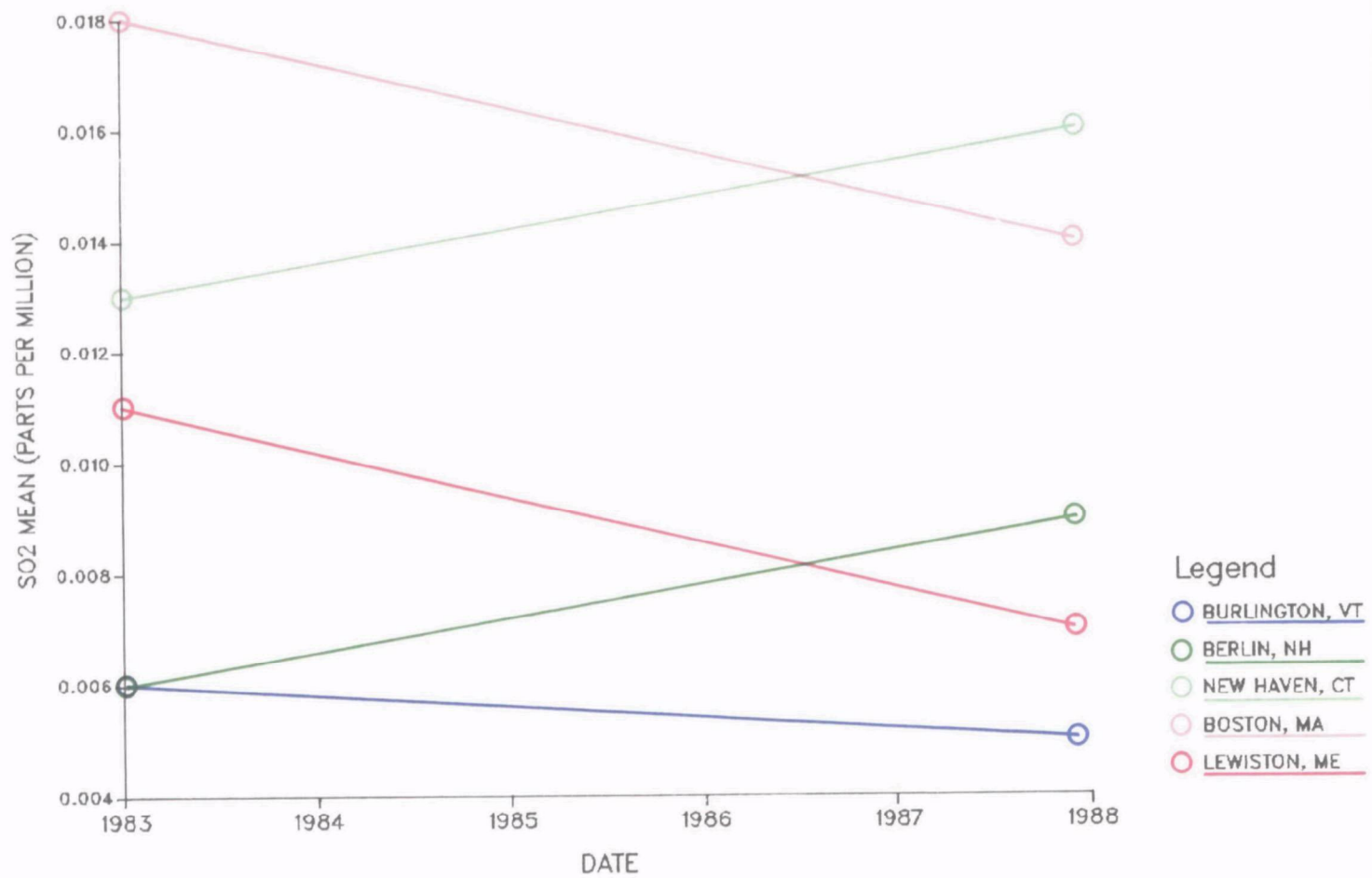
NO₂ is monitored at one site in Burlington. The arithmetic mean for 1987 is 38% of the annual NAAQS.

O₃

No violations of the ozone NAAQS were monitored in Vermont for 1987. The maximum daily values for the year were 0.101 ppm for Bennington and 0.089 ppm for Burlington. Ozone levels have remained relatively stable in Vermont since 1981 and show attainment through 1987.



FIVE YEAR TREND SULFUR DIOXIDE



FIVE YEAR TREND OZONE

