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# **STATE AND LOCAL AIR MONITORING STATIONS (SLAMS) NETWORK**

**INCLUDING  
NATIONAL AIR MONITORING STATIONS (NAMS)  
AND  
SPECIAL PURPOSE MONITORS (SPM)**

**1990 STATUS REPORT**

*March 1991*

**MONITORING SECTION  
MONITORING AND REPORTS BRANCH  
TECHNICAL SUPPORT DIVISION  
OFFICE OF AIR QUALITY PLANNING AND STANDARDS  
U.S. ENVIRONMENTAL PROTECTION AGENCY  
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## **1. Introduction**

This status report represents information gathered primarily for calendar year 1990 and provides a summarization of data submitted to the Technical Support Division (TSD) as of December 31, 1990. Please note that for the purposes of this report, SLAMS monitors are defined as to exclude NAMS monitors. The information includes the status of each pollutant for the State and Local Air Monitoring Stations (SLAMS), the National Air Monitoring Stations (NAMS), and special purpose monitors (SPM).

The primary purpose of this report is to provide an indication of the number and the status of the aforementioned categories of monitors as were operating on December 31, 1990, as well as a Regional estimation of the number of monitors planned for operation during the current year of 1991. The information is presented by pollutant type for each Region, State, and local agency.

The final section of this report will provide an indication of the cumulative status history for the years 1983-1990 for each State and Region.

## **2. 1990 Status for SLAMS, NAMS, and SPM**

Table 1 provides a summary by Region and pollutant of the number of SLAMS and SPM operating on December 31, 1990 and for those planned for 1991. While the Table 1 information for the NAMS shows the number of monitors operating on December 31, 1990, as well as the number of monitors required to meet Part 58 Regulations. There were a reported 4,756 monitors operating on December 31, 1990; this represents an increase of 52 monitors (1 percent) from the 4,704 monitors operating on December 31,

1989. Three Regions had significant increases in the number of monitors they operated. These monitor increases totaled 126, while one other Region increased their number of monitors by nine. Three Regions reported significant decreases totaling 64 monitors with the other three Regions having decreases totaling only 19. The Regional breakdown is; Regions I, IV, V, and IX report increases of 9, 50, 30, and 46, respectively. Regions II, III, VI, VII, VIII, and X reported decreases of 7, 24, 9, 13, 3, and 27, respectively. The majority of the changes are represented by the reductions in TSP of 112 samplers (10 percent), SO<sub>2</sub> of 30 monitors (5 percent), and increases of 113 PM-10 samplers (11 percent), 15 Pb samplers (4 percent), 35 O<sub>3</sub> monitors (5 percent), and 29 NO<sub>2</sub> monitors (10 percent). Modifications to the TSP and PM-10 networks continue to reflect the 1987 promulgation change of the particulate standard from TSP to PM-10.

There are 4,845 monitors reportedly planned for operation in 1991; an increase of about two percent (89 monitors). TSP samplers are projected to decrease by 38 samplers (4 percent), while increases are planned to include 40 PM-10 sites (3 percent), 12 Pb sites (3 percent), 2 SO<sub>2</sub> sites (<1 percent), 9 CO sites (2 percent), 41 O<sub>3</sub> sites (5 percent), and 23 NO<sub>2</sub> sites (8 percent).

The SLAMS monitors operating at the end of 1990 numbered 2,813, or 31 less than were reported as operating at the end of 1989. There was only one "major" change in the quantity of operating SLAMS monitors in the Regions; Region X reported a 45 monitor decrease. However, five Regions; I, III, IV, V, and VIII had increases in the number of SLAMS operated of 3, 14, 21, 6, and 3, respectively. Regions showing decreases were II, VI, VII, IX, and X with 5, 7, 8, 13, and 45.

The number of NAMS monitors operating nationally in December 1990 totaled 970, 12 less (one percent) than the 982 reported as operating in December 1989. There were no "major" alterations in the number of NAMS monitors operated in 1990; one Region had an increase of six monitors, six Regions had decreases totaling 18 monitors with three Regions remaining unchanged. These changes include only small reductions; three TSP, two PM-10, five SO<sub>2</sub>, one CO, two O<sub>3</sub> monitors, and the addition of one Pb sampler, with the number of NO<sub>2</sub> sites remaining unchanged.

## **2.1 1990 Pollutant Specific Status**

The 1990 pollutant specific status information, as presented in Sections 2.1.1 to 2.1.7, is provided as a comparison of the network changes for the years 1989 to 1990 for each pollutant.

### **2.1.1 Total Suspended Particulates (TSP)**

TSP had the second largest change of all the pollutants in the number of samplers operated in 1990 with a decrease of 112 (10 percent) from 1,129 to 1,017. For 1990 Region III had the largest decrease in the number of TSP samplers operating, from 190 to 157, (33 samplers, 17 percent), followed by Region X with 20 (from 44 to 24, for 45 percent), and by Region VI with 18 samplers (51 to 33, for 35 percent). In 1991 it is anticipated that there will continue to be reductions in the TSP network of a projected 38 samplers (4 percent) from 1017 to 979.



### **2.1.2 Particulate Matter-10 Micron (PM-10)**

During 1990, PM-10 had the largest overall change of the monitored pollutants in the number of operating samplers; an increase of 113 new PM-10 sites, from a reported 1,064 in 1989 to 1,177 (11 percent) in 1990. While all Regions reported increases in PM-10 sampling sites for 1990, Region IV had the largest increase with 32 sites, followed by Region IX with 26, and Region V with 17 sites. Table 1 also shows a projected increase in PM-10 samplers for 1991 of 40 sites (3 percent) from 1,177 to 1,217.

### **2.1.3 Lead (Pb)**

The number of Pb samplers operating in December 1990 was reported to be 405; an increase of 15 (4 percent) from the 390 samplers operating in December 1989. Seven Regions reported Pb sampler increases totaling 29 with the other three Regions showing decreases of 14 samplers. The projections for 1991 are for 417 Pb samplers; an increase of 12 from 1990.

### **2.1.4 Sulfur Dioxide (SO<sub>2</sub>)**

The quantity of SO<sub>2</sub> monitors operating nationwide in 1990, as opposed to those that were operated in 1989, has changed significantly. In December 1989 there were 613 monitors as compared to 583 reported operating in December 1990. Seven Regions indicated that they operated a total of 35 less SO<sub>2</sub> monitors in 1990 than in 1989 with

three Regions reporting increases of a total of five for the same period. The projections for 1991 are for 585 monitors, or an increase of only two.

### **2.1.5 Carbon Monoxide (CO)**

The number of CO monitors operated in 1990, as opposed to those operated in 1989, has changed very little. There were 481 reported operating in 1989 and there are 483 reported as operated in 1990, an increase of only two. These two monitors indicate reductions of four SLAMS, one NAMS, and increases of seven SPM. There are scheduled to be 492 monitors operating in 1991 for an increase of nine (2 percent) from the 483 operated in 1990.

### **2.1.6 Ozone (O3)**

There were 785 O3 monitors operating in December 1990, which represents an increase of 35 (5 percent) from the 750 monitors operating in December 1989. Overall, there were significant increases from 1989 to 1990 in the number of SLAMS and SPM of 3 and 34, however, NAMS monitors actually decreased by two. Regions I, II, III, IV, V, VI, IX, and X had O3 monitor increases of 4, 2, 1, 4, 5, 3, 15, and 3, respectively. Region VII and VIII report decreases of one monitor each. The projections for 1991 show an increase of 41 monitors (5 percent) from 785 to 826.

### **2.1.7 Nitrogen Dioxide (NO2)**

For the third year in a row, there were increases in the number of NO2 monitors operating. The number of monitors are reported to have increased from December 1989 to December 1990 by 29 (10 percent) from 277 to 306. This is mostly the result of a 67 percent increase in the number of SPM's, from 42 to 70 monitors, with SLAMS reporting an increase of only one monitor. It is also being reported that the number of NAMS NO2 monitors remained the same at 56. An additional 23 monitors are scheduled to begin operating 1991; bringing the total to 329.

## **2.2 1990 Regional Status**

Tables 2 through 12 show the summary of SLAMS, NAMS, and SPM monitors reported as operating in each Region by State, local agency, and pollutant. A discussion of each Region follows.

### **2.2.1 Region I**

Table 2 indicates that there were 344 monitors operating in Region I at the end of December 1990, an increase of only nine (3 percent) from the 335 reported as operated in 1989. These changes are the result of increases in all pollutant monitors, with the exception of TSP which decreased by seven sites. Maine, Massachusetts, and New Hampshire had increases in the number of monitors operated in 1990 of 11, 3, and 7, respectively, with Connecticut and Vermont reporting decreases of 9 and 3. There was no change reported for Rhode Island. The projections for Region I in 1991 are for a

network decrease of 22 monitors (6 percent) to 322, with decreases in TSP and PM-10 samplers again accounting for most of the changes.

### **2.2.2 Region II**

There were 276 monitors operating in Region II in December 1990 as shown in Table 3. This represents a decrease of seven monitors (2 percent) from the reported 283 monitors operating in 1989. The majority of the change is accounted for with the reduction of 13 TSP samplers. New York and the Virgin Islands had overall reductions of 16 and 2 monitors in 1990, while New Jersey and Puerto Rico had monitor increases of 4 and 7, respectively. The indicated projections for 1991 in Region II are for 312 monitors; an increase of 36 monitors (13 percent) from the 1990 total of 276.

### **2.2.3 Region III**

As shown in Table 4 there were 587 monitors operating in December 1990. This represents a decrease of 24 monitors (4 percent) from the 611 monitors operating in December 1989. These changes were the result of decreases of 33 TSP samplers, 2 Pb samplers, 4 SO<sub>2</sub> monitors, 1 NO<sub>2</sub> monitor, and the increases of 15 PM-10 samplers and 1 O<sub>3</sub> monitor. Maryland and Pennsylvania had increases in the number of monitors in 1990 of 6 and 3. Delaware, Virginia, and West Virginia had decreases of 6, 20, and 7, respectively, with only the District of Columbia remaining unchanged. The States in Region III plan to make no changes in the number of monitors proposed for operation in 1991 and have indicated they will continue to operate 587 monitors in 1991.

#### **2.2.4 Region IV**

Table 5 indicates that there were 905 monitors operating in Region IV in December 1990, or an increase of 50 (6 percent) from the 855 monitors listed as operating in 1989. These reported 905 monitors represent the largest Regional air monitoring network in the country: the national network totals 4,756 monitors. Once again, as was the case in 1989, the States in Region IV reported operating 381 TSP samplers. Furthermore, these 381 TSP samplers operating in Region IV represents 37 percent of the total 1,017 TSP samplers operating nationwide. The changes for 1990 in Region IV include increases of 32 for PM-10, 10 for Pb, 3 for CO, 4 for O3, and 3 for NO2, with the number of SO2 monitors decreasing by 2. Florida, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee increased their monitoring networks by 5, 6, 1, 21, 7, and 15, respectively. Alabama and Georgia have indicated a reduction in monitors operated in 1990 with decreases of three and two. For 1991 the projected number of monitors planned for operation in Region IV amount to 917; an increase of 12 monitors (1 percent) over the 905 reported as operated in December 1990.

#### **2.2.5 Region V**

There were 781 monitors operating in Region V in December 1990 as Table 6 indicates. This is a net increase of 30 monitors (4 percent) from the 751 monitors reported operating in 1989. Most of the changes are accounted for in the increase of 17 PM-10 samplers, and increases by 5 in both Pb samplers and O3 monitors. Region V with 219 PM-10 sites has the most of any Region, and represents 19 percent of the

1,177 samplers operated nationally. Michigan reported operating the same number of monitors in 1990 as they reported for 1989; 98. The remaining Region V States; Illinois, Indiana, Minnesota, Ohio, and Wisconsin reported increases in their networks of 8, 2, 10, 9, and 1 monitor, respectively. The Region V States are expecting to operate 781 monitors in 1991; the same as they operated in 1990.

### **2.2.6 Region VI**

As shown in Table 7, Region VI reported that 379 monitors were operating at the end of December 1990, a decrease of nine monitors (2 percent) from the 388 as reported operating in December 1989. Overall, Region VI changes amounted to increases of 3 PM-10 samplers, 1 Pb sampler, 1 SO<sub>2</sub> monitor, 3 O<sub>3</sub> monitors, and 1 NO<sub>2</sub> monitor, while the number of CO monitors remained at 37. A reduction of 18 TSP samplers was also reported. The New Mexico network remained unchanged for 1990 with the Louisiana network increasing by two monitors. However, the States of Arkansas, Oklahoma, and Texas reported that they all had net decreases in 1990 of three, five, and three monitors, respectively. It is projected that the Region VI network for 1991 will consist of 399 monitors, an increase of 20 (5 percent) from the 379 as operated operating in 1990.

### **2.2.7 Region VII**

The 1990 status for Region VII, as reported in Table 8, shows the network to consist of 267 sites, which is a decrease of 13 (5 percent) from the 280 sites as reported in 1989. Most of this change was due to a decrease of 12 TSP and 4 SO<sub>2</sub> sites. Iowa,

Kansas, and Missouri had net decreases of eight, four, and five sites, respectively, with Nebraska indicating a net increase of four sites. The 1990 projections are for 271 sites, or a increase of 4 (1 percent) from the 267 sites operating in 1990.

### **2.2.8 Region VIII**

Region VIII reports that in December 1990 there were 231 monitoring sites operating, as shown in Table 9. This is a decrease of 3 sites (1 percent) from the 234 sites operating in 1989. These changes are the result of decreases in the TSP, SO<sub>2</sub>, and O<sub>3</sub> networks of 11, 1, and 1, respectively. The network additions include one PM-10, six Pb, two CO, and one NO<sub>2</sub>. All the States report only minor network changes; Colorado had a 4-monitor increase, Montana reported a 5-monitor decrease, North Dakota had a 2-monitor increase, with Utah and Wyoming reporting decreases of three and one, respectively. However, South Dakota indicates that they utilized the same number of six monitors, in both 1989 and 1990. In 1991, the projected network is for 251 sites, or an increase of 20 from the 231 sites operating in 1990.

### **2.2.9 Region IX**

There were 798 monitoring sites operating in Region IX in December 1990 as is shown in Table 10. This was an increase of 46 sites (6 percent) from the 752 sites operated in 1989. This was due to network pollutant increases of 4 TSP, 26 PM-10, 3 CO, 15 O<sub>3</sub>, and 24 NO<sub>2</sub> sites. The network also included decreases of 7 Pb, and 19 SO<sub>2</sub>. Arizona, California, and Nevada had net increases, in the number of sites in 1990,

of 18, 28, and 3, respectively. While, Guam reports a decrease of 3 monitors, Hawaii reported that their total of 18 has remained the same. The projections for 1991 are to be an additional 8 sites, which will result in a reported 806 sites.

### **2.2.10 Region X**

Table 11 indicates that there were 188 monitoring sites operating in Region X in December 1990, which was a decrease of 27 sites (13 percent) from the 215 that were operated in 1989. This network change resulted mostly from the decrease of 20 TSP samplers (45 percent). Other monitor changes were; decreases of five Pb, four SO<sub>2</sub>, six CO, one NO<sub>2</sub>, and increases of six PM-10 and three O<sub>3</sub> sites. Alaska, Idaho, and Washington had net decreases in 1990 of 2, 7, and 18 monitoring sites, respectively. With Oregon reporting that their monitoring sites remained at 59. The projections for 1991 are for increases of 11 sites for a total of 199.

### **3. 1983-1990 Historical Status**

Table 12 provides information detailing the Regional status, by pollutant, for each year from 1983 through 1990. This historical overview displays the number of SLAMS and NAMS by pollutant for 1983-1990. For 1988 to 1990, the number of SPM sites are also included for each pollutant. The number of PM-10 sites was first reported in 1987, and has continued through 1990. Figure 1 shows graphically the number of SLAMS and NAMS sites from 1983-1990. The SPM sites are also shown for years 1988-1990; the only years this information was tabulated. The totals shown in Figure 1 for 1983-1987



are for the combination of the SLAMS and NAMS, while the totals for 1988-1990 also includes the SPM sites.

The total number of sites as reported for 1990, total 4,756 only 7 less than the total reported for 1983 (4,756 versus 4,763); however, significant changes have been made in the number of sites for some of the pollutants. Table 12 also shows the national totals for each pollutant for 1983-1990, and these numbers are also depicted graphically in Figure 2 and Figure 3. Figure 2 shows the number of O<sub>3</sub>, SO<sub>2</sub>, CO, and NO<sub>2</sub> sites from 1983 through 1990, and Figure 3 shows the number of TSP, PM-10, and Pb sites from 1983 through 1990. It should be noted that the large increases for O<sub>3</sub>, SO<sub>2</sub>, Pb, and to a lesser extent for CO and NO<sub>2</sub> (as shown in Figures 2 and 3 for 1987 to 1988) are mainly due to inclusion of SPM monitors in the tabulations for 1988. The number of SPM monitors were not included in the data base prior to year 1987 because they were not available.

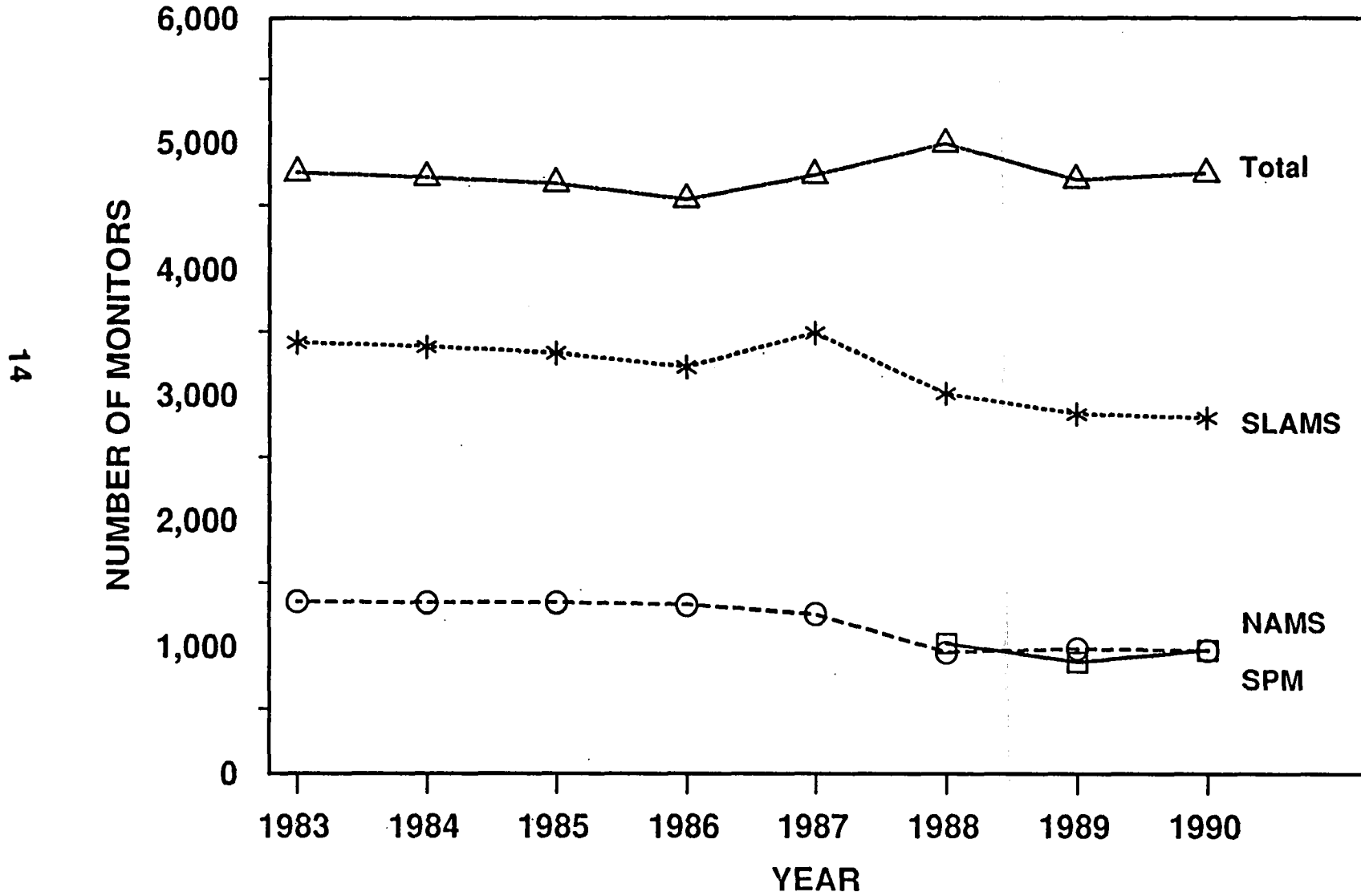
Table 12 shows that there were 2,502 TSP sites operating in 1983 as compared to 1,017 sites in 1990, for a reduction of 1,485 (59 percent). As previously mentioned, the changes in the number of TSP sites reflect the change in the form of the particulate standard promulgated in 1987 from TSP to PM-10. The PM-10 sites were first tabulated in 1987 at 583 sites. The number of PM-10 sites has increased by 594 (102 percent) to 1,177 in 1990. The number of Pb sites has shown a modest increase from 365 sites in 1983 to 405 sites in 1990 for an increase of 40 (11 percent). For SO<sub>2</sub> there was a small increase of 15 sites (3 percent) from 568 sites in 1983 to 583 in 1990. The increase of CO sites was 44 (10 percent) from 439 in 1983 to 483 in 1990. The number of O<sub>3</sub> sites

increased by 178 (29 percent) from 607 in 1983 to 785 in 1990. There has also been a moderate increase of 24 NO<sub>2</sub> sites (9 percent) from 282 in 1983 to 306 in 1990.

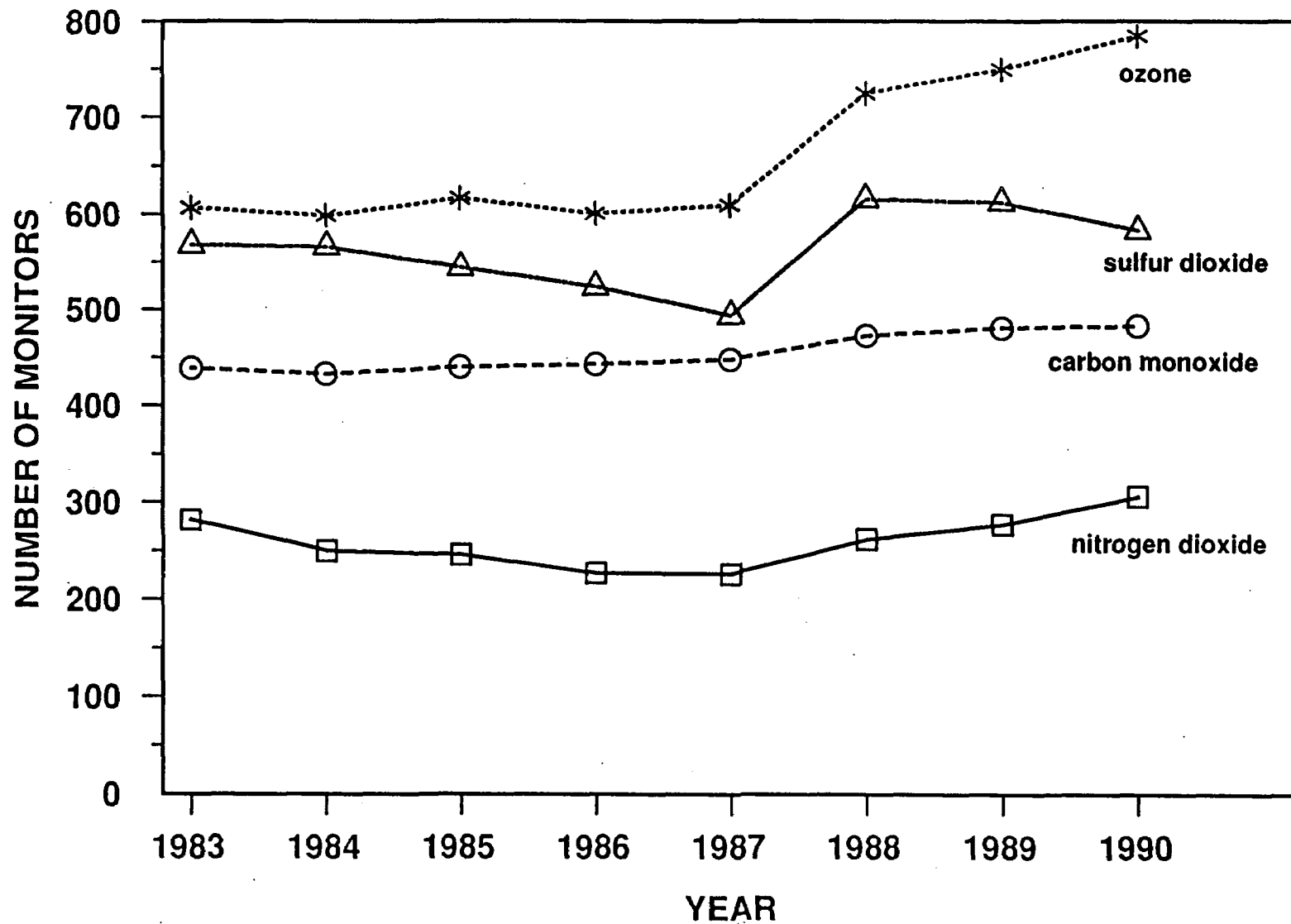
Tables 13 to 22 depict summaries from years 1983-1990 for each Region, State, and pollutant indicating the number of SLAMS, NAMS, and SPM monitors by year.

**Figure 1.**

**COMPARISON OF SLAMS, NAMS, SPM, AND TOTAL AIR MONITORS**

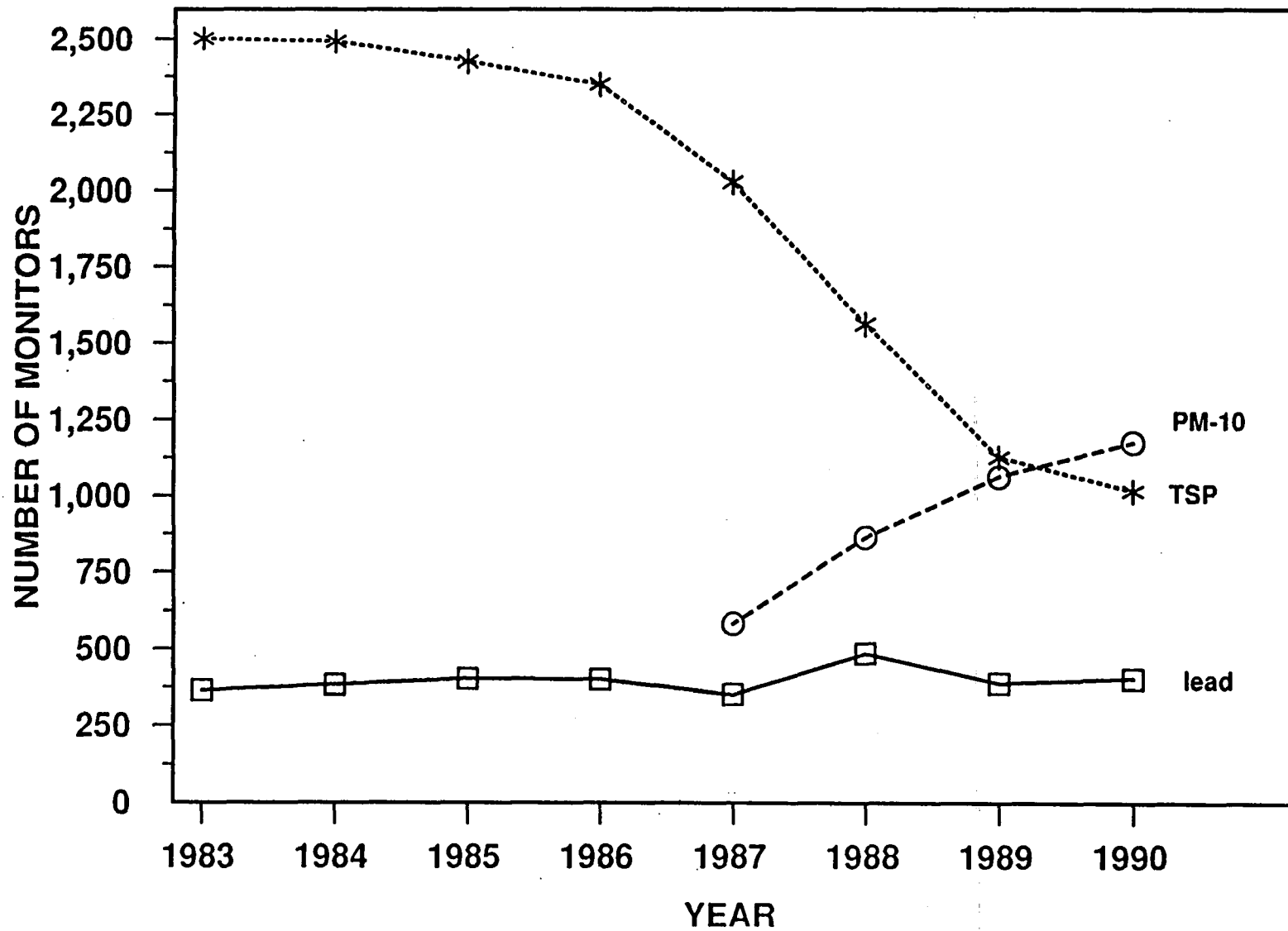


**Figure 2.**  
**COMPARISON OF CRITERIA POLLUTANT TOTAL MONITORS**



# Figure 3.

## COMPARISON OF PARTICULATE POLLUTANT TOTAL SAMPLERS



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TABLE 1. National 1990 Summary of SLAMS, NAMS, and SPM by Region and Pollutant

Mar 1991

Region	TSP			PM-10			Pb			SO2			
	a	b	c	a	b	c	a	b	c	a	b	c	
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubbler	SPM	
I	38 / 24 <sup>c</sup>	-	20 / 20	75 / 63 <sup>c</sup>	23 / 23	20 / 20	13 / 13 <sup>c</sup>	8 / 8	11 / 9	28 / 27 <sup>c</sup>	-	20 / 20	9 / 9
II	48 / 48	-	3 / 3	49 / 76	23 / 23	-	17 / 17	10 / 10	1 / 1	27 / 28	-	17 / 17	-
III	-	-	157 / 157	77 / 77	26 / 26	-	29 / 29	10 / 10	12 / 12	35 / 35	-	39 / 39	19 / 19
IV	320 / 310	-	61 / 55	94 / 98	26 / 28	18 / 19	17 / 18	20 / 22	43 / 43	44 / 49	2 / 2 <sup>c</sup>	13 / 14	21 / 21
V	53 / 11	-	65 / 100	140 / 134	59 / 59	20 / 19	34 / 34	20 / 20	20 / 23	59 / 55	-	44 / 45	16 / 16
VI	30 / 30	-	3 / 3	68 / 73	35 / 36	11 / 11	19 / 18	14 / 14	9 / 7	28 / 28	-	8 / 8	11 / 10
VII	50 / 50	-	30 / 30	34 / 33	16 / 16	8 / 8	9 / 9	8 / 8	12 / 17	16 / 16	-	10 / 10	7 / 7
VIII	25 / 23	-	8 / 9	57 / 71	16 / 16	16 / 16	10 / 10	4 / 4	3 / 2	10 / 10	-	4 / 4	17 / 17
IX	75 / 75	-	7 / 7	122 / 122	41 / 43	22 / 22	25 / 31	16 / 16	3 / 3	36 / 36	2 / 2	12 / 12	13 / 13
X	16 / 16	-	8 / 8	46 / 46	17 / 19	18 / 18	6 / 6	3 / 4	1 / 1	10 / 10	-	4 / 4	2 / 2
Total	655 / 587	0 / 0	362 / 392	762 / 793	282 / 289	133 / 135	179 / 185	113 / 114	115 / 119	293 / 294	4 / 4	171 / 173	115 / 114
Total (SLAMS+NAMS+SPM)	1017 / 970			1177 / 1217			405 / 417			593 / 585			

- a. Number of SLAMS monitors excluding NAMS.
- b. Number of monitors operating/required.
- c. Number of monitors operating in 1990/planned in 1991.

TABLE 1. National 1990 Summary of SLAMS, NAMS, and SPM by Region and Pollutant  
(continued)

Mar 1991

Region	CO			O3			NO2			Subtotals			Total
	a	b	c	a	b	c	a	b	c	a	b	c	
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	
I	11 / 11 <sup>c</sup>	8 / 8	-	17 / 23 <sup>c</sup>	16 / 16	12 / 13	9 / 10 <sup>c</sup>	2 / 2	4 / 3	191 / 171 <sup>c</sup>	77 / 77	76 / 74	344 / 322
II	18 / 21	10 / 11	-	18 / 18	18 / 18	3 / 4	7 / 8	6 / 8	1 / 1	184 / 216	84 / 87	8 / 9	276 / 312
III	40 / 40	10 / 10	2 / 2	59 / 59	21 / 21	5 / 5	32 / 32	8 / 8	8 / 8	272 / 272	114 / 114	201 / 201	587 / 587
IV	43 / 45	24 / 24	3 / 2	51 / 55	51 / 52	26 / 27	14 / 18	4 / 6	10 / 9	563 / 593	138 / 146	182 / 175	903 / 915
V	46 / 43	20 / 20	8 / 9	88 / 93	48 / 50	14 / 18	13 / 15	11 / 12	5 / 5	431 / 385	202 / 206	148 / 190	781 / 781
VI	16 / 17	16 / 16	5 / 5	39 / 44	28 / 28	9 / 12	17 / 27	6 / 6	7 / 6	217 / 227	107 / 108	55 / 54	379 / 399
VII	17 / 17	6 / 6	1 / 1	19 / 19	11 / 11	2 / 2	8 / 6	4 / 4	3 / 3	151 / 150	53 / 53	63 / 68	267 / 271
VIII	20 / 24	4 / 4	2 / 2	13 / 13	6 / 8	-	6 / 6	2 / 2	8 / 8	141 / 157	38 / 38	54 / 56	231 / 251
IX	85 / 85	20 / 20	14 / 14	115 / 115	27 / 28	50 / 49	75 / 75	12 / 12	28 / 28	539 / 539	128 / 131	135 / 134	796 / 804
X	21 / 21	3 / 4	10 / 10	6 / 6	3 / 7	12 / 12	1 / 1	1 / 4	-	106 / 106	31 / 42	51 / 51	188 / 199
Total	317 / 324	121 / 123	45 / 45	423 / 445	229 / 239	139 / 142	180 / 198	56 / 64	70 / 67	2513 / 2530	970 / 1002	973 / 1013	4756 / 4845
(SLAMS+NAMS+SPM)	483 / 492			705 / 828			308 / 329			4756 / 4845			

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in 1990/planned in 1991.



TABLE 2. Region I 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant

Region I

Mar 1991

State	TSP			PM-10			Pb			SO2			
	a	b	c	a	b	c	a	b	c	a	b	c	
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	continuous	bubbler	SPM	
CT	1 / 1 <sup>c</sup>	-	-	31 / 17 <sup>c</sup>	12 / 12	2 / 2	3 / 3 <sup>c</sup>	2 / 2	2 / 2	9 / 9 <sup>c</sup>	-	4 / 4	-
ME	5 / 5	-	19 / 19	14 / 16	1 / 1	17 / 17	2 / 2	-	7 / 7	6 / 6	-	2 / 2	8 / 8
MA	20 / 6	-	-	11 / 11	6 / 6	-	-	4 / 4	-	2 / 1	-	0 / 0	-
NH	1 / 1	-	-	14 / 14	1 / 1	1 / 1	6 / 6	-	2 / 0	10 / 10	-	1 / 1	1 / 1
Ri	11 / 11	-	-	-	2 / 2	-	2 / 2	2 / 2	-	-	-	3 / 3	-
VT	-	-	1 / 1	5 / 5	1 / 1	-	-	-	-	1 / 1	-	1 / 1	-
Regional Total	38 / 24	0 / 0	20 / 20	75 / 63	23 / 23	20 / 20	13 / 13	8 / 8	11 / 9	28 / 27	0 / 0	20 / 20	9 / 9
Total (SLAMS+NAMS+SPM)	58 / 44			118 / 106			32 / 30			57 / 56			

State	CO			O3			NO2			Subtotals			Totals
	a	b	c	a	b	c	a	b	c	a	b	c	
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	
CT	3 / 3 <sup>c</sup>	2 / 2	-	4 / 5 <sup>c</sup>	8 / 8	-	3 / 3 <sup>c</sup>	-	-	64 / 41 <sup>c</sup>	26 / 26	4 / 4	84 / 71
ME	-	-	-	4 / 4	-	5 / 8	-	-	2 / 1	31 / 33	3 / 3	58 / 58	92 / 94
MA	4 / 4	4 / 4	-	2 / 7	8 / 8	5 / 5	2 / 2	2 / 2	2 / 2	41 / 31	33 / 33	7 / 7	81 / 71
NH	2 / 2	-	-	4 / 4	1 / 1	2 / 2	1 / 2	-	-	36 / 39	3 / 3	6 / 4	47 / 46
Ri	-	2 / 2	-	1 / 1	1 / 1	-	1 / 1	-	-	15 / 15	10 / 10	-	25 / 25
VT	2 / 2	-	-	2 / 2	-	-	2 / 2	-	-	12 / 12	2 / 2	1 / 1	15 / 15
Regional Total	11 / 11	8 / 8	0 / 0	17 / 23	16 / 16	12 / 13	9 / 10	2 / 2	4 / 3	191 / 171	77 / 77	76 / 74	344 / 322
Total (SLAMS+NAMS+SPM)	19 / 19			45 / 52			15 / 15			344 / 322			

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in 1990/planned in 1991.

TABLE 3. Region II 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant

Region II

Mar 1991

State	TSP			PM-10			Pb			SO2			
	a	b	c	a	b	c	a	b	c	a	b	c	
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SLAMS bubble	NAMS	SPM
NJ	-	-	-	15 / 15 <sup>c</sup>	8 / 8	-	6 / 6 <sup>c</sup>	2 / 2	-	10 / 10 <sup>c</sup>	-	6 / 6	-
NY	38 / 38 <sup>c</sup>	-	-	28 / 52	11 / 11	-	10 / 10	5 / 5	-	12 / 12	-	11 / 11	-
PR	7 / 5	-	3 / 3	8 / 9	4 / 4	-	1 / 1	3 / 3	1 / 1	3 / 4	-	-	-
VI	3 / 5	-	-	-	-	-	-	-	-	2 / 2	-	-	-
Regional Total	48 / 48	0 / 0	3 / 3	49 / 76	23 / 23	0 / 0	17 / 17	10 / 10	1 / 1	27 / 26	-	17 / 17	0 / 0
Total (SLAMS+NAMS+SPM)	51 / 51			72 / 99			28 / 28			44 / 45			

State	CO			O3			NO2			Subtotals			Totals
	a	b	c	a	b	c	a	b	c	a	b	c	
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	
NJ	12 / 14 <sup>c</sup>	2 / 2	-	9 / 9 <sup>c</sup>	8 / 8	-	6 / 6 <sup>c</sup>	2 / 2	-	58 / 60 <sup>c</sup>	28 / 28	-	84 / 88
NY	6 / 6	6 / 7	-	8 / 8	11 / 11	3 / 4	1 / 2	4 / 4	1 / 1	102 / 129	48 / 48	4 / 6	154 / 183
PR	0 / 1	2 / 2	-	-	1 / 1	-	-	0 / 2	-	19 / 20	10 / 12	4 / 4	33 / 38
VI	-	-	-	-	-	-	-	-	-	5 / 7	-	-	5 / 7
Regional Total	18 / 21	10 / 11	0 / 0	18 / 18	18 / 19	3 / 4	7 / 8	6 / 6	1 / 1	184 / 216	84 / 87	8 / 9	276 / 312
Total (SLAMS+NAMS+SPM)	28 / 32			39 / 40			14 / 17			276 / 312			

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in 1990/planned in 1991.

TABLE 5. Region IV 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant

Mar 1991

Region IV

State/ Local Agency	TSP			PM-10			Pb			SO2		
	a	b	c	a	b	c	a	b	c	a	b	c
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	continuous	bubbler	SPM
AL (Total)	45 / 35	-	4 / 4	20 / 31	2 / 2	2 / 2	4 / 4	2 / 2	4 / 4	1 / 1	-	1 / 1
State	31 / 21	-	4 / 4	22 / 24	-	2 / 2	1 / 1	-	-	1 / 1	-	-
Jefferson Co.	9 / 9	-	-	5 / 5	2 / 2	-	3 / 3	2 / 2	4 / 4	-	-	1 / 1
Huntsville	5 / 5	-	-	1 / 1	-	-	-	-	-	-	-	-
FL (Total)	88 / 88	-	17 / 17	12 / 17	8 / 8	4 / 5	-	11 / 12	9 / 9	16 / 16	2 / 2	6 / 6
State	46 / 46	-	9 / 9	6 / 6	1 / 1	0 / 1	-	2 / 2	-	7 / 7	-	1 / 1
Jacksonville	7 / 7	-	2 / 2	2 / 2	1 / 1	-	-	2 / 2	1 / 1	3 / 3	-	1 / 1
Hillsborough Co.	8 / 8	-	3 / 3	1 / 2	1 / 1	2 / 2	-	1 / 2	4 / 4	3 / 3	-	2 / 2
Pinellas Co.	5 / 5	-	2 / 2	-	1 / 1	1 / 1	-	2 / 2	1 / 1	1 / 1	-	2 / 2
Palm Beach Co.	5 / 5	-	-	3 / 3	-	-	-	-	-	1 / 1	-	-
Broward Co.	10 / 10	-	-	0 / 2	2 / 2	1 / 1	-	2 / 2	2 / 2	-	2 / 2	2 / 2
Dade Co.	5 / 5	-	1 / 1	1 / 3	2 / 2	-	-	2 / 2	1 / 1	1 / 1	-	-
GA	43 / 43	-	-	-	2 / 2	1 / 1	-	2 / 2	10 / 10	4 / 6	-	2 / 2
KY (Total)	19 / 19	-	5 / 5	19 / 12	4 / 5	1 / 1	5 / 5	2 / 2	1 / 1	9 / 11	-	2 / 2
State	18 / 18	-	4 / 4	15 / 9	3 / 4	-	5 / 5	-	1 / 1	9 / 9	-	1 / 1
Jefferson Co.	1 / 1	-	1 / 1	3 / 3	1 / 2	1 / 1	0 / 1	2 / 2	-	0 / 2	-	2 / 2
MS	16 / 16	-	3 / 3	-	1 / 1	1 / 1	4 / 4	-	-	2 / 2	-	1 / 1
NC (Total)	60 / 60	-	2 / 2	16 / 16	3 / 3	3 / 3	-	-	-	5 / 5	-	5 / 5
State	48 / 40	-	-	11 / 11	2 / 2	1 / 1	-	-	-	3 / 3	-	5 / 5
Forsyth Co.	5 / 5	-	2 / 2	4 / 4	-	2 / 2	-	-	-	2 / 2	-	-
Mecklenberg Co.	11 / 11	-	-	-	1 / 1	-	-	-	-	-	-	-
Western NC	4 / 4	-	-	1 / 1	-	-	-	-	-	-	-	-
SC	18 / 18	-	22 / 18	7 / 10	3 / 3	3 / 3	-	-	12 / 12	4 / 4	-	1 / 1
TN (Total)	33 / 33	-	8 / 8	12 / 12	3 / 3	3 / 3	4 / 4	3 / 4	7 / 7	3 / 4	-	1 / 2
State	12 / 12	-	8 / 8	5 / 5	-	-	1 / 1	-	5 / 5	1 / 1	-	5 / 5
Memphis	3 / 3	-	-	-	1 / 1	1 / 1	2 / 2	2 / 2	-	2 / 2	-	0 / 1
Nashville	11 / 11	-	-	4 / 4	1 / 1	1 / 1	1 / 1	1 / 2	2 / 2	0 / 1	-	1 / 1
Knoxville	2 / 2	-	-	1 / 1	1 / 1	1 / 1	-	-	-	-	-	-
Chattanooga	5 / 5	-	-	2 / 2	-	-	-	-	-	-	-	-
Regional Total	320 / 310	-	61 / 55	94 / 90	26 / 20	19 / 19	17 / 18	20 / 22	43 / 43	44 / 49	2 / 2	13 / 14
Total (SLAMS+NAMS+SPM)	381 / 365			138 / 145			80 / 83			80 / 86		

TABLE 6. Region V 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant

Region V		Mar 1991												
State/ Local Agency	TSP			PM-10			Pb			SO <sub>2</sub>				
	a	b	c	a	b	c	a	b	c	a	b	c		
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubbler	SPM		
IL (Total)	-	-	21 / 23	24 / 24	15 / 15	-	15 / 15	2 / 2	1 / 2	14 / 15	-	12 / 12	-	
State	-	-	17 / 18	19 / 20	9 / 9	-	14 / 14	1 / 0	0 / 1	9 / 10	-	10 / 10	-	
Cook Co.	-	-	4 / 5	5 / 4	6 / 6	-	1 / 1	1 / 2	1 / 1	5 / 5	-	2 / 2	-	
IN (Total)	-	-	11 / 9	57 / 54	5 / 5	5 / 7	4 / 4	2 / 2	4 / 8	10 / 9	-	6 / 6	4 / 3	
State	-	-	4 / 4	18 / 15	3 / 3	3 / 5	1 / 1	-	4 / 6	6 / 5	-	5 / 5	2 / 1	
Evansville	-	-	-	4 / 4	-	-	-	-	-	1 / 1	-	-	-	
St Joseph Co.	-	-	1 / 1	5 / 4	-	-	-	-	-	-	-	-	-	
Vigo Co.	-	-	2 / 2	7 / 7	-	2 / 2	-	-	-	1 / 1	-	-	-	
Indianapolis	-	-	1 / 0	11 / 11	2 / 2	-	3 / 3	2 / 2	0 / 2	2 / 2	-	1 / 1	-	
Anderson	-	-	3 / 2	3 / 4	-	-	-	-	-	-	-	-	-	
Porter Co.	-	-	-	9 / 9	-	-	-	-	-	-	-	-	2 / 2	
MI (Total)	14 / 11	-	6 / 5	4 / 4	6 / 6	7 / 7	11 / 11	2 / 2	5 / 5	6 / 6	-	2 / 3	6 / 6	
State	4 / 4	-	5 / 5	4 / 4	-	4 / 4	6 / 6	-	5 / 5	1 / 1	-	1 / 1	3 / 3	
Wayne Co.	10 / 7	-	-	-	6 / 6	3 / 3	5 / 5	2 / 2	-	5 / 5	-	1 / 2	3 / 3	
MN	12 / 0	-	0 / 6	9 / 7	8 / 8	5 / 5	3 / 3	2 / 2	-	3 / 3	-	4 / 4	5 / 5	
OH (Total)	-	-	22 / 24	49 / 41	19 / 19	-	1 / 1	10 / 10	19 / 8	20 / 18	-	17 / 17	-	
Central Dist.	-	-	4 / 4	1 / 1	2 / 2	-	-	2 / 2	-	-	-	2 / 2	-	
Northeast Dist.	-	-	-	4 / 4	-	-	-	-	-	1 / 1	-	2 / 2	-	
Northwest Dist.	-	-	-	5 / 4	-	-	0 / 1	-	1 / 1	1 / 1	-	-	-	
Southeast Dist.	-	-	3 / 3	2 / 1	-	-	-	-	-	3 / 3	-	-	-	
Southwest Dist.	-	-	-	-	-	-	1 / 0	-	0 / 1	-	-	-	-	
Akron	-	-	1 / 1	0 / 1	1 / 1	-	-	2 / 2	1 / 1	-	-	2 / 2	-	
Canton	-	-	2 / 1	2 / 3	1 / 1	-	-	-	-	-	-	1 / 1	-	
Southwestern Ohio	-	-	2 / 2	0 / 4	4 / 4	-	-	2 / 2	4 / 3	5 / 4	-	1 / 1	-	
Cleveland	-	-	3 / 3	3 / 2	6 / 6	-	-	2 / 2	2 / 2	1 / 0	-	4 / 4	-	
Montgomery Co.	-	-	2 / 2	2 / 2	2 / 2	-	-	2 / 2	-	1 / 1	-	1 / 1	-	
Lake Co.	-	-	-	1 / 1	-	-	-	-	-	2 / 2	-	-	-	
Portsmouth	-	-	-	6 / 6	-	-	-	-	2 / 0	3 / 3	-	-	-	
North Ohio Valley	-	-	3 / 5	10 / 9	-	-	-	-	-	3 / 3	-	-	-	
Toledo	-	-	1 / 2	3 / 1	1 / 1	-	-	-	-	-	-	2 / 2	-	
Mahoning Trumbull	-	-	1 / 1	4 / 2	2 / 2	-	-	-	-	-	-	1 / 1	-	
WI	27 / 0	-	6 / 33	3 / 4	6 / 6	3 / 0	-	2 / 2	-	6 / 4	-	3 / 3	1 / 2	
Regional Total	53 / 11	0 / 0	65 / 100	140 / 134	59 / 59	20 / 19	34 / 34	20 / 20	20 / 23	59 / 55	-	44 / 45	16 / 16	
Total (SLAMS+NAMS+SPM)	118 / 111			219 / 212			74 / 77			119 / 116				

TABLE 6. Region V 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant  
(Continued)

Region V

Mar 1991

State/ Local Agency	CO			O3			NO2			Subtotals			Totals
	a	b	c	a	b	c	a	b	c	a	b	c	
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	
IL (Total)	15 / 10	2 / 2	0 / 2	29 / 28	11 / 11	4 / 2	9 / 8	2 / 2	4 / 2	106 / 100	44 / 44	30 / 31	180 / 175
State	12 / 7	1 / 1	0 / 2	19 / 18	11 / 11	4 / 2	5 / 5	1 / 1	4 / 2	78 / 74	33 / 32	25 / 25	136 / 131
Cook Co.	3 / 3	1 / 1	-	10 / 10	-	-	4 / 3	1 / 1	-	28 / 26	11 / 12	5 / 6	44 / 44
IN (Total)	7 / 7	2 / 2	1 / 0	9 / 9	7 / 7	4 / 9	3 / 3	-	1 / 3	90 / 88	22 / 22	30 / 39	142 / 147
State	4 / 4	1 / 1	1 / 0	4 / 4	5 / 5	2 / 4	2 / 2	-	1 / 2	35 / 31	14 / 14	17 / 22	66 / 67
Evansville	1 / 2	-	-	2 / 2	-	0 / 2	-	-	0 / 1	8 / 9	-	0 / 3	9 / 12
St Joseph Co.	-	-	-	-	1 / 1	-	-	-	-	5 / 4	1 / 1	1 / 1	7 / 6
Vigo Co.	-	-	-	1 / 1	-	-	-	-	-	9 / 9	-	4 / 4	13 / 13
Indianapolis	2 / 1	1 / 1	-	2 / 2	1 / 1	2 / 3	1 / 1	-	-	21 / 20	7 / 7	3 / 5	31 / 32
Anderson	-	-	-	-	-	-	-	-	-	3 / 4	-	3 / 2	6 / 6
Porter Co.	-	-	-	-	-	-	-	-	-	9 / 8	-	2 / 2	11 / 11
MI (Total)	6 / 7	2 / 2	2 / 2	8 / 8	10 / 10	3 / 4	-	1 / 2	-	47 / 45	23 / 25	28 / 29	98 / 99
State	3 / 3	-	2 / 2	4 / 4	8 / 8	3 / 4	-	-	-	22 / 22	9 / 9	22 / 23	53 / 54
Wayne Co.	3 / 4	2 / 2	-	2 / 2	2 / 2	-	-	1 / 2	-	25 / 23	14 / 16	6 / 6	45 / 45
MN	8 / 8	2 / 2	-	5 / 4	2 / 2	-	0 / 3	2 / 2	-	38 / 28	20 / 20	10 / 16	68 / 64
OH (Total)	5 / 6	10 / 10	4 / 3	18 / 24	14 / 16	-	1 / 1	4 / 4	-	68 / 91	74 / 76	36 / 35	198 / 202
Central Dist.	1 / 1	2 / 2	-	1 / 3	2 / 2	-	-	-	-	3 / 5	10 / 10	4 / 4	17 / 19
Northeast Dist.	-	-	-	2 / 2	0 / 1	-	-	-	-	7 / 7	2 / 3	-	9 / 10
Northwest Dist.	-	-	-	1 / 1	-	-	-	-	-	7 / 7	-	1 / 1	8 / 8
Southeast Dist.	-	-	-	1 / 1	-	-	-	-	-	6 / 5	-	3 / 3	9 / 8
Southwest Dist.	-	-	-	1 / 1	-	-	-	-	-	2 / 1	-	0 / 1	2 / 2
Akron	-	2 / 2	-	-	2 / 2	-	-	-	-	0 / 1	9 / 9	2 / 2	11 / 12
Canton	1 / 1	-	-	0 / 1	2 / 2	-	-	-	-	3 / 5	4 / 4	2 / 1	9 / 10
Southwestern Ohio	-	2 / 2	-	5 / 5	2 / 2	-	-	2 / 2	-	10 / 13	13 / 13	6 / 5	29 / 31
Cleveland	0 / 1	2 / 2	3 / 3	2 / 2	1 / 1	-	-	2 / 2	-	6 / 5	17 / 17	8 / 8	31 / 30
Montgomery Co.	-	2 / 2	1 / 0	2 / 2	1 / 2	-	-	-	-	5 / 5	8 / 9	3 / 2	16 / 16
Lake Co.	1 / 1	-	-	1 / 1	1 / 1	-	-	-	-	5 / 5	1 / 1	-	6 / 6
Portsmouth	-	-	-	1 / 1	-	-	-	-	-	10 / 10	-	2 / 0	12 / 10
North Ohio Valley	1 / 1	-	-	1 / 1	-	-	1 / 1	-	-	16 / 15	1 / 1	3 / 5	20 / 21
Toledo	1 / 1	-	-	0 / 1	2 / 2	-	-	-	-	4 / 3	5 / 5	1 / 2	10 / 10
Mahoning Trumbull	-	-	-	0 / 2	1 / 1	-	-	-	-	4 / 4	4 / 4	1 / 1	9 / 9
WI	5 / 5	2 / 2	1 / 2	21 / 22	4 / 4	3 / 3	-	2 / 2	-	62 / 35	19 / 19	14 / 40	95 / 94
Regional Total	46 / 43	20 / 20	6 / 9	86 / 93	48 / 50	14 / 19	13 / 15	11 / 12	5 / 5	431 / 385	202 / 206	148 / 190	781 / 781
Total (SLAMS+NAMS+SPM)	74 / 72			148 / 161			29 / 32			781 / 781			

- a. Number of SLAMS monitors excluding NAMS.
- b. Number of monitors operating/required.
- c. Number of monitors operating in 1990/planned in 1991.

TABLE 7. Region VI 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant

Region VI

Mar 1991

State/ Local Agency	TSP			PM-10			Pb			SO2		
	a	b	c	a	b	c	a	b	c	a	b	c
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubbler	SPM
AR	2 / 2	-	-	18 / 19	2 / 2	-	2 / 2	-	-	1 / 1	-	1 / 1
LA	20 / 20	-	3 / 3	5 / 5	5 / 5	-	2 / 2	2 / 2	1 / 2	5 / 5	-	1 / 1
NM (Total)	1 / 1	-	-	23 / 25	4 / 4	3 / 3	2 / 2	-	-	9 / 9	-	-
State	1 / 1	-	-	17 / 19	-	3 / 3	2 / 2	-	-	9 / 9	-	1 / 1
Albuquerque	-	-	-	6 / 6	4 / 4	-	-	-	-	-	-	-
OK (Total)	7 / 7	-	-	12 / 12	4 / 4	-	3 / 3	2 / 2	-	6 / 6	-	1 / 1
State	2 / 2	-	-	7 / 7	-	-	-	1 / 1	-	4 / 4	-	1 / 1
Tulsa	-	-	-	3 / 3	2 / 2	-	2 / 2	-	-	1 / 1	-	1 / 1
Oklahoma City Co.	5 / 5	-	-	2 / 2	2 / 2	-	1 / 1	1 / 1	-	1 / 1	-	-
TX (Total)	-	-	-	10 / 12	20 / 21	8 / 8	10 / 9	10 / 10	8 / 8	7 / 7	-	8 / 8
State	-	-	-	7 / 9	11 / 12	8 / 8	5 / 4	6 / 6	6 / 2	6 / 6	-	4 / 4
El Paso	-	-	-	2 / 2	2 / 2	-	2 / 2	1 / 1	-	-	-	1 / 1
Dallas	-	-	-	-	4 / 4	-	2 / 2	2 / 2	-	1 / 1	-	-
Galveston Co.	-	-	-	1 / 1	-	-	-	-	-	-	-	-
Houston	-	-	-	-	8 / 8	-	1 / 1	1 / 1	3 / 3	1 / 1	-	4 / 4
Regional Total	30 / 30	-	3 / 3	68 / 73	35 / 36	11 / 11	19 / 18	14 / 14	9 / 7	28 / 28	-	8 / 8
Total (SLAMS+NAMS+SPM)	33 / 33			114 / 120			42 / 39			47 / 46		

TABLE 7. Region VI 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant  
(continued)

Region VI													Mar 1991	
State/ Local Agency	CO			O3			NO2			Subtotals			Totals	
	a	b	c	a	b	c	a	b	c	a	b	c		
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM		
AR	-	-	-	-	2 / 2	0 / 1	1 / 1	-	-	-	24 / 25	5 / 5	0 / 1	29 / 31
LA	1 / 2	2 / 2	-	13 / 19	6 / 6	1 / 1	3 / 13	2 / 2	-	-	49 / 66	18 / 18	5 / 5	72 / 90
NM (Total)	8 / 8	2 / 2	-	7 / 7	2 / 2	1 / 1	3 / 3	-	1 / 1	-	53 / 55	8 / 8	6 / 6	67 / 69
State	4 / 4	-	-	4 / 4	-	1 / 1	2 / 2	-	1 / 1	-	39 / 41	-	6 / 6	45 / 47
Albuquerque	4 / 4	2 / 2	-	3 / 3	2 / 2	-	1 / 1	-	-	-	14 / 14	8 / 8	-	22 / 22
OK (Total)	3 / 3	2 / 2	-	3 / 3	4 / 4	-	6 / 6	-	1 / 0	-	40 / 40	13 / 13	2 / 0	55 / 53
State	1 / 1	-	-	2 / 2	1 / 1	-	4 / 4	-	1 / 0	-	20 / 20	2 / 2	2 / 0	24 / 22
Tulsa	2 / 2	-	-	1 / 1	2 / 2	-	2 / 2	-	-	-	11 / 11	5 / 5	-	16 / 16
Oklahoma City Co.	-	2 / 2	-	-	1 / 1	-	-	-	-	-	9 / 9	6 / 6	-	15 / 15
TX (Total)	4 / 4	10 / 10	5 / 5	16 / 15	14 / 14	7 / 9	4 / 4	4 / 4	5 / 5	-	51 / 51	63 / 64	42 / 41	156 / 156
State	2 / 2	7 / 7	3 / 3	8 / 7	13 / 13	7 / 9	1 / 1	2 / 2	5 / 5	-	28 / 28	43 / 44	33 / 32	104 / 104
El Paso	1 / 1	-	1 / 1	-	-	-	-	-	-	-	5 / 5	4 / 4	1 / 1	10 / 10
Dallas	-	2 / 2	-	2 / 2	1 / 1	-	1 / 1	1 / 1	-	-	6 / 6	10 / 10	-	16 / 16
Galveston Co.	-	-	-	-	-	-	-	-	-	-	1 / 1	-	-	1 / 1
Houston	1 / 1	1 / 1	1 / 1	6 / 6	-	-	2 / 2	1 / 1	-	-	11 / 11	6 / 6	8 / 8	25 / 25
Regional Total	16 / 17	16 / 16	5 / 5	39 / 44	28 / 28	9 / 12	17 / 27	6 / 6	7 / 6	-	217 / 237	107 / 108	55 / 54	379 / 399
Total (SLAMS+NAMS+SPM)	37 / 38			76 / 84			30 / 39			379 / 399			-	

- a. Number of SLAMS monitors excluding NAMS.
- b. Number of monitors operating/required.
- c. Number of monitors operating in 1990/planned in 1991.

TABLE 8. Region VII 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant

Region VII

Mar 1991

State/ Local Agency	TSP			PM-10			Pb			SO2		
	a	b	c	a	b	c	a	b	c	a	b	c
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubble	SPM
IA (Total)	24 / 24	-	4 / 4	9 / 9	3 / 3	-	1 / 1	-	-	5 / 5	-	3 / 3
State	18 / 18	-	1 / 1	6 / 6	1 / 1	-	1 / 1	-	-	4 / 4	-	2 / 2
Linn Co.	3 / 3	-	3 / 3	1 / 1	1 / 1	-	-	-	-	1 / 1	-	3 / 3
Polk Co.	3 / 3	-	-	2 / 2	1 / 1	-	-	-	-	-	-	-
KS	-	-	19 / 19	3 / 3	3 / 3	6 / 6	1 / 1	1 / 1	-	-	-	2 / 2
MO (Total)	-	-	1 / 1	14 / 13	8 / 8	2 / 2	6 / 6	3 / 3	8 / 13	11 / 11	-	4 / 4
State	-	-	1 / 1	7 / 6	-	1 / 1	1 / 1	-	1 / 6	2 / 2	-	4 / 4
St. Louis Co.	-	-	-	3 / 3	1 / 1	-	-	2 / 2	-	4 / 4	-	1 / 1
St. Louis City	-	-	-	1 / 1	3 / 3	-	1 / 1	-	-	1 / 1	-	2 / 2
Kansas City	-	-	-	1 / 1	3 / 3	1 / 1	1 / 1	1 / 1	-	2 / 2	-	1 / 1
Springfield	-	-	-	2 / 2	1 / 1	-	-	-	-	2 / 2	-	-
AMAX	-	-	-	-	-	-	2 / 2	-	2 / 2	-	-	-
St. Joe Lead	-	-	-	-	-	-	1 / 1	-	6 / 6	-	-	-
NE (Total)	26 / 26	-	6 / 6	6 / 6	2 / 2	-	1 / 1	2 / 2	4 / 4	-	-	1 / 1
State	21 / 21	-	-	6 / 6	-	-	-	-	1 / 1	-	-	-
Lincoln	-	-	-	1 / 1	-	-	-	-	-	-	-	-
Omaha	5 / 5	-	6 / 6	1 / 1	2 / 2	-	1 / 1	2 / 2	3 / 3	-	-	1 / 1
Regional Total	50 / 50	0 / 0	30 / 30	34 / 33	16 / 16	9 / 8	9 / 9	6 / 6	12 / 17	16 / 16	0 / 0	10 / 10
Total (SLAMS+NAMS+SPM)	80 / 80			58 / 57			27 / 32			33 / 33		



TABLE 8. Region VII 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant  
(continued)

Region VII

Mar 1991

State/ Local Agency	CO			O3			NO2			Subtotals			Totals
	a	b	c	a	b	c	a	b	c	a	b	c	
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	
IA (Total)	5 / 5 <sup>c</sup>	-	-	3 / 3 <sup>c</sup>	3 / 3	-	-	-	-	47 / 47 <sup>c</sup>	9 / 9	7 / 7	63 / 63
State	-	-	-	1 / 1	1 / 1	-	-	-	-	30 / 30	4 / 4	1 / 1	35 / 35
Linn Co.	2 / 2	-	-	2 / 2	-	-	-	-	-	9 / 9	2 / 2	6 / 6	17 / 17
Polk Co.	3 / 3	-	-	-	2 / 2	-	-	-	-	8 / 8	3 / 3	-	11 / 11
KS	3 / 3	-	-	1 / 1	2 / 2	-	-	-	1 / 1	8 / 8	8 / 8	26 / 26	42 / 42
MO (Total)	7 / 7	4 / 4	1 / 1	13 / 13 <sup>c</sup>	4 / 4	2 / 2	6 / 6	4 / 4	2 / 2	67 / 66	27 / 27	20 / 25	104 / 108
State	-	1 / 1	-	1 / 1	2 / 2	2 / 2	-	2 / 2	-	11 / 10	6 / 5	9 / 14	25 / 29
St. Louis Co.	4 / 4	-	1 / 1	5 / 5	-	-	4 / 4	-	1 / 1	20 / 20	4 / 4	2 / 2	26 / 26
St. Louis City	-	2 / 2	-	3 / 3	1 / 1	-	1 / 1	1 / 1	-	7 / 7	9 / 9	-	16 / 16
Kansas City	2 / 2	1 / 1	-	2 / 2	1 / 1	-	1 / 1	1 / 1	-	9 / 9	8 / 8	1 / 1	18 / 18
Springfield	1 / 1	-	-	2 / 2	-	-	-	-	1 / 1	7 / 7	1 / 1	1 / 1	9 / 9
AMAX	-	-	-	-	-	-	-	-	-	2 / 2	-	2 / 2	4 / 4
St. Joe Lead	-	-	-	-	-	-	-	-	-	1 / 1	-	5 / 5	6 / 6
NE (Total)	2 / 2	2 / 2	-	2 / 2	2 / 2	-	-	-	-	39 / 39	9 / 9	10 / 10	56 / 56
State	-	-	-	-	-	-	-	-	-	27 / 27	-	1 / 1	28 / 28
Lincoln	2 / 2	-	-	1 / 1	-	-	-	-	-	4 / 4	-	-	4 / 4
Omaha	-	2 / 2	-	1 / 1	2 / 2	-	-	-	-	8 / 8	9 / 9	9 / 9	26 / 26
Regional Total	17 / 17	6 / 6	1 / 1	19 / 19	11 / 11	2 / 2	6 / 6	4 / 4	3 / 3	151 / 150	53 / 53	63 / 68	267 / 271
Total (SLAMS+NAMS+SPM)	24 / 24			32 / 32			13 / 13			267 / 271			

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in 1990/planned in 1991.

TABLE 9. Region VIII 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant

Region VIII

Mar 1991

State/ Local Agency	TSP			PM-10			Pb			SO <sub>2</sub>			
	a	b	c	a	b	c	a	b	c	a	b	c	
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubbler	SPM	
CO	9 / 9 <sup>c</sup>	-	5 / 7	28 / 30 <sup>c</sup>	8 / 8	2 / 2	4 / 4 <sup>c</sup>	2 / 2	3 / 2	-	-	2 / 2	-
MT (Total)	9 / 7	-	2 / 2	14 / 16	-	5 / 5	5 / 5	-	-	2 / 2 <sup>c</sup>	-	-	15 / 15
State	5 / 5	-	-	8 / 10	-	2 / 2	5 / 5	-	-	2 / 2	-	-	2 / 2
Cascade Co.	2 / 0	-	-	1 / 1	-	-	-	-	-	-	-	-	-
Missoula	-	-	2 / 2	2 / 2	-	-	-	-	-	-	-	-	-
Yellowstone Co.	2 / 2	-	-	1 / 1	-	-	-	-	-	-	-	-	-
Industrial & Indian	-	-	-	2 / 2	-	3 / 3	-	-	-	-	-	-	13 / 13
ND	-	-	-	4 / 4	1 / 1	1 / 1	-	-	-	5 / 5	-	-	2 / 2
SD	-	-	1 / 0	5 / 13	-	0 / 1	-	-	-	-	-	-	-
UT	-	-	-	3 / 4	7 / 7	3 / 4	1 / 1	2 / 2	-	3 / 3	-	2 / 2	-
WY	7 / 7	-	-	3 / 4	-	5 / 5	-	-	-	-	-	-	-
<b>Regional Total</b>	<b>25 / 23</b>	<b>0 / 0</b>	<b>8 / 9</b>	<b>57 / 71</b>	<b>16 / 16</b>	<b>16 / 18</b>	<b>10 / 10</b>	<b>4 / 4</b>	<b>3 / 2</b>	<b>10 / 10</b>	<b>0 / 0</b>	<b>4 / 4</b>	<b>17 / 17</b>
<b>Total (SLAMS+NAMS+SPM)</b>	<b>33 / 32</b>			<b>89 / 105</b>			<b>17 / 16</b>			<b>31 / 31</b>			

TABLE 9. Region VIII 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant  
(continued)

Region VIII

Mar 1991

State/ Local Agency	CO			O3			NO2			Subtotals			Totals	
	a	b	c	a	b	c	a	b	c	a	b	c		
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM		
CO	11 / 13 <sup>c</sup>	2 / 2	-	7 / 7 <sup>c</sup>	4 / 4	-	1 / 1 <sup>c</sup>	2 / 2	-	60 / 64 <sup>c</sup>	20 / 20	10 / 11	90 / 95	
MT (Total)	4 / 5	-	-	-	-	-	-	-	5 / 5	34 / 35	-	27 / 27	61 / 62	
State	0 / 1	-	-	-	-	-	-	-	-	20 / 23	-	4 / 4	24 / 27	
Cascade Co.	1 / 1	-	-	-	-	-	-	-	-	4 / 2	-	-	4 / 2	
Missoula	2 / 2	-	-	-	-	-	-	-	-	4 / 4	-	2 / 2	6 / 6	
Yellowstone Co.	1 / 1	-	-	-	-	-	-	-	-	4 / 4	-	0 / 0	4 / 4	
Industrial & Indian	-	-	-	-	-	-	-	-	5 / 5	2 / 2	-	21 / 21	23 / 23	
ND	-	-	1 / 1	3 / 3	-	-	2 / 2	2	-	2 / 2	14 / 14	1 / 1	6 / 6	21 / 21
SD	-	-	-	-	-	-	-	-	-	5 / 13	-	1 / 1	6 / 14	
UT	5 / 6	2 / 2	1 / 1	3 / 3	2 / 4	-	3 / 3	-	1 / 1	18 / 20	15 / 17	5 / 6	38 / 43	
WY	-	-	-	-	-	-	-	-	-	10 / 11	-	5 / 5	15 / 16	
Regional Total	20 / 24	4 / 4	2 / 2	13 / 13	6 / 8	0 / 0	6 / 6	2 / 2	6 / 6	141 / 157	36 / 36	54 / 56	231 / 251	
(SLAMS+NAMS+SPM)	26 / 30			19 / 21			16 / 16			231 / 251				

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in 1990/planned in 1991.

TABLE 10. Region IX 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant

Region IX

Mar 1991

State/ Local Agency	TSP			PM-10			Pb			SO2			
	a	b	c	a	b	c	a	b	c	a	b	c	
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SLAMS bubbler	NAMS	SPM
AZ (Total)	-	-	5 / 5	18 / 18	8 / 8	-	2 / 2	2 / 2	-	4 / 4	-	1 / 1	-
State	-	-	-	12 / 12	-	-	-	-	-	3 / 3	-	-	-
Pima	-	-	5 / 5	6 / 6	2 / 2	-	2 / 2	-	-	1 / 1	-	-	-
Maricopa	-	-	-	-	6 / 6	-	-	2 / 2	-	-	-	1 / 1	-
CA (Total)	87 / 87	-	1 / 1	89 / 89	26 / 28	20 / 20	23 / 29	12 / 12	3 / 3	20 / 20	-	11 / 11	13 / 13
State (ARB)	5 / 5	-	-	9 / 9	2 / 3	2 / 2	4 / 4	-	-	1 / 1	-	2 / 2	-
Bay Area	15 / 15	-	-	7 / 7	8 / 9	-	10 / 10	4 / 4	1 / 1	8 / 8	-	2 / 2	-
Fresno Co.	2 / 2	-	-	1 / 1	2 / 2	-	-	-	-	-	-	-	-
Kern Co.	6 / 6	-	-	3 / 3	-	-	-	-	1 / 1	-	-	-	-
Monterey	1 / 1	-	1 / 1	3 / 3	-	-	-	-	-	1 / 1	-	-	1 / 1
Sacramento	2 / 2	-	-	2 / 2	2 / 2	1 / 1	-	2 / 2	-	-	-	1 / 1	1 / 1
San Diego	8 / 8	-	-	2 / 2	2 / 2	-	-	2 / 2	-	4 / 4	-	2 / 2	1 / 1
Santa Barbara	-	-	-	2 / 2	-	8 / 8	-	-	-	2 / 2	-	-	4 / 4
South Coast	23 / 23	-	-	9 / 9	10 / 10	-	7 / 13	4 / 4	-	7 / 7	-	4 / 4	-
Ventura	5 / 5	-	-	5 / 5	-	-	1 / 1	-	-	1 / 1	-	-	-
North Coast	-	-	-	1 / 1	-	-	-	-	-	-	-	-	-
Mendocino	-	-	-	2 / 2	-	-	-	-	-	-	-	-	-
Northern Sonoma	-	-	-	3 / 3	-	-	-	-	-	-	-	-	-
San Luis Obispo	-	-	-	1 / 1	-	1 / 1	-	-	1 / 1	2 / 2	-	-	3 / 3
Modoc	-	-	-	1 / 1	-	-	-	-	-	-	-	-	-
Siskiyou	-	-	-	1 / 1	-	-	-	-	-	-	-	-	-
Butte	-	-	-	-	-	1 / 1	-	-	-	-	-	-	-
Placer	-	-	-	3 / 3	-	1 / 1	-	-	-	-	-	-	-
Shasta	-	-	-	2 / 2	-	-	-	-	-	-	-	-	-
Yolo Solano	-	-	-	1 / 1	-	1 / 1	-	-	-	-	-	-	-
Sutter	-	-	-	-	-	-	-	-	-	-	-	-	-
Tehama	-	-	-	1 / 1	-	-	-	-	-	-	-	-	-
Yuba	-	-	-	1 / 1	-	-	-	-	-	-	-	-	-
Kings	-	-	-	3 / 3	-	-	-	-	-	-	-	-	-
Madera	-	-	-	1 / 1	-	-	-	-	-	-	-	-	-
Merced	-	-	-	1 / 1	-	1 / 1	-	-	-	-	-	-	-
Great Basin	-	-	-	10 / 10	-	1 / 1	-	-	-	-	-	-	-
Imperial	-	-	-	2 / 2	-	-	-	-	-	-	-	-	-

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TABLE 10. Region IX 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant  
(continued)

Region IX

State/ Local Agency	TSP			PM-10			Pb			SO2			
	a	b	c	a	b	c	a	b	c	a	b	c	
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SLAMS bubbler	NAMS	SPM
CA-continued													
San Bernardino	-	-	-	5 / 5 <sup>c</sup>	-	-	1 / 1 <sup>c</sup>	-	-	3 / 3 <sup>c</sup>	-	-	1 / 1
El Dorado	-	-	-	1 / 1	-	-	-	-	-	-	-	-	-
National Park Service	-	-	-	1 / 1	-	-	-	-	-	-	-	-	-
Northern Sierra	-	-	-	2 / 2	-	1 / 1	-	-	-	-	-	-	-
Tulare	-	-	-	1 / 1	-	-	-	-	-	-	-	-	-
Lake Co.	-	-	-	2 / 2	-	-	-	-	-	-	-	-	-
Amador	-	-	-	-	-	-	-	-	-	-	-	-	-
Stanislaus	-	-	-	-	-	2 / 2	-	-	-	-	-	-	2 / 2
GUAM	-	-	-	4 / 4	-	-	-	-	-	2 / 2	-	-	-
HI	3 / 3	-	-	4 / 4	2 / 2	-	-	2 / 2	-	1 / 1	2 / 2 <sup>c</sup>	-	-
NV (Total)	5 / 5	-	1 / 1	7 / 7	5 / 5	2 / 2	-	-	-	-	-	-	-
State	2 / 2	-	1 / 1	2 / 2	-	-	-	-	-	-	-	-	-
Washoe	-	-	-	3 / 3	2 / 2	-	-	-	-	-	-	-	-
Clark Co.	3 / 3	-	-	2 / 2	3 / 3	2 / 2	-	-	-	-	-	-	-
<b>Regional Total</b>	<b>75 / 75</b>	<b>0 / 0</b>	<b>7 / 7</b>	<b>122 / 122</b>	<b>41 / 43</b>	<b>22 / 22</b>	<b>25 / 31</b>	<b>16 / 16</b>	<b>3 / 3</b>	<b>36 / 36</b>	<b>2 / 2</b>	<b>12 / 12</b>	<b>13 / 13</b>
<b>Total (SLAMS+NAMS+SPM)</b>	<b>82 / 82</b>			<b>185 / 187</b>			<b>44 / 50</b>			<b>63 / 63</b>			

TABLE 10. Region IX 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant  
(continued)

Region IX

Mar 1991

State/ Local Agency	CO			O3			NO2			Subtotals			Totals
	a	b	c	a	b	c	a	b	c	a	b	c	
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	
AZ (Total)	10 / 11	4 / 4	2 / 2	10 / 10	4 / 4	4 / 4	3 / 3	2 / 2	1 / 1	47 / 48	21 / 21	12 / 12	80 / 81
State	-	-	-	1 / 1	-	-	-	-	-	16 / 16	-	-	16 / 16
Pima	3 / 3	2 / 2	2 / 2	2 / 2	2 / 2	4 / 4	3 / 3	-	1 / 1	17 / 17	6 / 6	12 / 12	35 / 35
Maricopa	7 / 8	2 / 2	-	7 / 7	2 / 2	-	-	2 / 2	-	14 / 15	15 / 15	-	29 / 30
CA (Total)	67 / 67	12 / 12	10 / 10	101 / 101	18 / 18	44 / 43	67 / 67	10 / 10	23 / 23	443 / 440	89 / 92	114 / 113	846 / 854
State (ARB)	12 / 12	1 / 1	2 / 2	13 / 13	3 / 3	6 / 5	14 / 14	-	1 / 1	58 / 58	8 / 9	11 / 10	77 / 77
Bay Area	13 / 13	4 / 4	-	18 / 18	4 / 4	-	10 / 10	4 / 4	-	61 / 61	26 / 27	1 / 1	108 / 109
Fresno Co.	3 / 3	-	-	2 / 2	0 / 1	-	2 / 2	-	-	10 / 10	2 / 3	-	12 / 13
Kern Co.	-	-	-	-	-	-	-	-	-	9 / 9	-	1 / 1	10 / 10
Monterey	1 / 1	-	1 / 1	4 / 4	-	1 / 1	1 / 1	-	1 / 1	11 / 11	-	5 / 5	16 / 16
Sacramento	2 / 2	1 / 1	1 / 1	2 / 2	1 / 1	2 / 2	3 / 3	-	1 / 1	11 / 11	7 / 7	6 / 6	24 / 24
San Diego	5 / 5	2 / 2	1 / 1	6 / 6	2 / 2	1 / 1	5 / 5	2 / 2	1 / 1	30 / 30	12 / 12	4 / 4	46 / 46
Santa Barbara	3 / 3	-	-	4 / 4	-	14 / 14	3 / 3	-	14 / 14	14 / 14	-	40 / 40	54 / 54
South Coast	20 / 20	4 / 4	-	27 / 27	6 / 6	-	18 / 18	4 / 4	-	112 / 118	32 / 32	-	144 / 150
Ventura	2 / 2	-	-	4 / 4	2 / 2	-	4 / 4	-	-	22 / 22	2 / 2	-	24 / 24
North Coast	-	-	1 / 1	-	-	1 / 1	-	-	-	1 / 1	-	2 / 2	3 / 3
Mendocino	-	-	-	-	-	-	-	-	-	2 / 2	-	-	2 / 2
Northern Sonoma	-	-	-	-	-	-	-	-	-	3 / 3	-	-	3 / 3
San Luis Obispo	-	-	-	4 / 4	-	2 / 2	1 / 1	-	2 / 2	6 / 6	-	9 / 9	17 / 17
Modoc	-	-	-	-	-	-	-	-	-	1 / 1	-	-	1 / 1
Siskiyou	-	-	-	1 / 1	-	-	-	-	-	2 / 2	-	-	2 / 2
Butte	-	-	-	-	-	-	-	-	-	-	-	1 / 1	1 / 1
Placer	-	-	-	3 / 3	-	-	-	-	-	6 / 6	-	1 / 1	7 / 7
Shasta	1 / 1	-	-	-	-	2 / 2	1 / 1	-	-	4 / 4	-	2 / 2	6 / 6
Yolo Solano	1 / 1	-	1 / 1	1 / 1	-	3 / 3	-	-	-	3 / 3	-	5 / 5	8 / 8
Sutter	-	-	-	-	-	1 / 1	-	-	-	-	-	1 / 1	1 / 1
Tehama	-	-	-	-	-	-	-	-	-	1 / 1	-	-	1 / 1
Yuba	-	-	-	-	-	-	-	-	-	1 / 1	-	-	1 / 1
Kings	-	-	-	1 / 1	-	-	-	-	-	4 / 4	-	-	4 / 4
Madera	-	-	-	1 / 1	-	-	-	-	-	2 / 2	-	-	2 / 2
Merced	-	-	-	-	-	-	-	-	-	1 / 1	-	1 / 1	2 / 2
Great Basin	1 / 1	-	-	1 / 1	-	-	-	-	-	12 / 12	-	1 / 1	13 / 13
Imperial	-	-	-	1 / 1	-	-	-	-	-	3 / 3	-	-	3 / 3

TABLE 10. Region IX 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant  
(continued)

Region IX

State/ Local Agency	CO			O3			NO2			Subtotals			Totals
	a	b	c	a	b	c	a	b	c	a	b	c	
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	
CA-continued	c			c			c			c			
San Bernardino	2 / 2	-	1 / 1	5 / 5	-	1 / 1	4 / 4	-	1 / 1	20 / 20	-	4 / 4	24 / 24
El Dorado	-	-	-	-	-	-	-	-	-	1 / 1	-	-	1 / 1
National Park Service	-	-	-	1 / 1	-	8 / 8	-	-	-	2 / 2	-	8 / 8	10 / 10
Northern Sierra	-	-	-	1 / 1	-	-	-	-	-	3 / 3	-	1 / 1	4 / 4
Tulare	-	-	-	-	-	-	-	-	-	1 / 1	-	-	1 / 1
Lake Co.	1 / 1	-	-	1 / 1	-	-	-	-	-	4 / 4	-	-	4 / 4
Amador	-	-	-	-	-	-	-	-	-	-	-	-	-
Stanislaus	-	-	2 / 2	-	-	2 / 2	-	-	2 / 2	-	-	10 / 10	10 / 10
GUAM	-	-	-	-	-	-	-	-	-	6 / 6	-	-	6 / 6
HI	-	2 / 2	-	-	1 / 1	-	1 / 1	-	-	11 / 11	7 / 7	-	18 / 18
NV (Total)	8 / 7	2 / 2	2 / 2	4 / 4	4 / 4	2 / 2	4 / 4	-	2 / 2	28 / 27	11 / 11	9 / 9	48 / 47
State	2 / 2	-	-	2 / 2	-	-	2 / 2	-	-	10 / 10	-	1 / 1	11 / 11
Washoe	6 / 5	-	-	2 / 2	2 / 2	-	-	-	-	11 / 10	4 / 4	-	15 / 14
Clark Co.	-	2 / 2	2 / 2	-	2 / 2	2 / 2	2 / 2	-	2 / 2	7 / 7	7 / 7	8 / 8	22 / 22
Regional Total	85 / 85	20 / 20	14 / 14	115 / 115	27 / 28	50 / 49	75 / 75	12 / 12	26 / 26	535 / 541	128 / 131	135 / 134	798 / 806
Total (SLAMS+NAMS+SPM)	119 / 119			192 / 192			113 / 113			798 / 806			

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in 1990/planned in 1991.

TABLE 11. Region X 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant

Region X

Mar 1991

State/ Local Agency	TSP			PM-10			Pb			SO2		
	a	b	c	a	b	c	a	b	c	a	b	c
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	continuous	bubbler	SPM
AK (Total)	-	-	1 / 1	13 / 13	1 / 1	1 / 1	-	-	-	2 / 2	-	-
State	-	-	1 / 1	7 / 7	-	1 / 1	-	-	-	2 / 2	-	-
Anchorage	-	-	-	1 / 1	1 / 1	-	-	-	-	-	-	-
Fairbanks	-	-	-	2 / 2	-	-	-	-	-	-	-	-
National Prk Service	-	-	-	-	-	-	-	-	-	-	-	-
AHRC/PHS	-	-	-	1 / 1	-	-	-	-	-	-	-	-
Cook Inlet	-	-	-	1 / 1	-	-	-	-	-	-	-	-
Tri-Borough	-	-	-	1 / 1	-	-	-	-	-	-	-	-
ID (Total)	6 / 6	-	-	5 / 5	2 / 2	-	2 / 2	-	-	-	-	-
State	6 / 6	-	-	5 / 5	2 / 2	-	2 / 2	-	-	-	-	-
USEPA AR&E	-	-	-	-	-	-	-	-	-	-	-	-
OR (Total)	-	-	7 / 7	11 / 11	2 / 3	11 / 11	3 / 3	2 / 2	1 / 1	-	-	1 / 1
State	-	-	6 / 6	9 / 9	1 / 2	8 / 8	2 / 2	2 / 2	1 / 1	-	-	1 / 1
Lane Co.	-	-	1 / 1	2 / 2	1 / 1	3 / 3	1 / 1	-	-	-	-	-
USEPA AR&E	-	-	-	-	-	-	-	-	-	-	-	-
WA (Total)	10 / 10	-	-	17 / 17	12 / 13	6 / 6	1 / 1	1 / 2	-	3 / 3	-	3 / 3
State	8 / 8	-	-	4 / 4	-	2 / 2	-	-	-	7 / 7	-	1 / 1
Puget Sound	1 / 1	-	-	3 / 3	8 / 9	1 / 1	1 / 1	1 / 2	-	1 / 1	-	2 / 2
Olympic	-	-	-	3 / 3	-	2 / 2	-	-	-	-	-	-
Southwest	-	-	-	2 / 2	-	1 / 1	-	-	-	-	-	-
Northwest	-	-	-	1 / 1	-	-	-	-	-	-	-	-
Spokane Co.	-	-	-	1 / 1	3 / 3	-	-	-	-	-	-	-
Tri-County	-	-	-	-	1 / 1	-	-	-	-	-	-	-
Yakima	1 / 1	-	-	3 / 3	-	-	-	-	-	-	-	-
National Prk Service	-	-	-	-	-	-	-	-	-	-	-	1 / 1
Regional Total	16 / 16	0 / 0	8 / 8	46 / 46	17 / 19	15 / 16	6 / 6	3 / 4	1 / 1	10 / 10	0 / 0	4 / 4
Total (SLAMS+NAMS+SPM)	24 / 24			81 / 83			10 / 11			16 / 16		

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TABLE 11. Region X 1990 Summary of SLAMS, NAMS, and SPM by State and Pollutant  
(continued)

Region X

Mar 1991

State/ Local Agency	CO			O3			NO2			Subtotals			Totals
	a	b	c	a	b	c	a	b	c	a	b	c	
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	
AK (Total)	c			c			c			c			
AK (Total)	5 / 5	-	1 / 1	-	-	1 / 1	1 / 1	-	-	21 / 21	1 / 1	4 / 4	26 / 26
State	5 / 5	-	-	-	-	-	1 / 1	-	-	15 / 15	-	2 / 2	17 / 17
Anchorage	-	-	1 / 1	-	-	-	-	-	-	1 / 1	1 / 1	1 / 1	3 / 3
Fairbanks	-	-	-	-	-	-	-	-	-	2 / 2	-	-	2 / 2
National Prk Service	-	-	-	-	-	1 / 1	-	-	-	-	-	1 / 1	1 / 1
AHRC/PHS	-	-	-	-	-	-	-	-	-	1 / 1	-	-	1 / 1
Cook Inlet	-	-	-	-	-	-	-	-	-	1 / 1	-	-	1 / 1
Tri-Borough	-	-	-	-	-	-	-	-	-	1 / 1	-	-	1 / 1
ID (Total)	1 / 1	-	-	-	-	2 / 2	-	-	-	14 / 14	2 / 2	2 / 2	18 / 18
Dept H&W	1 / 1	-	-	-	-	1 / 1	-	-	-	14 / 14	2 / 2	1 / 1	17 / 17
USEPA AR&E	-	-	-	-	-	1 / 1	-	-	-	-	-	1 / 1	1 / 1
OR (Total)	c			c			c			c			
OR (Total)	5 / 5	2 / 2	5 / 5	3 / 3	2 / 2	3 / 3	-	1 / 2	-	22 / 22	10 / 12	27 / 27	59 / 61
State	5 / 5	2 / 2	4 / 4	2 / 2	2 / 2	1 / 1	-	1 / 2	-	18 / 18	9 / 11	20 / 20	47 / 49
Lane Co.	-	-	1 / 1	1 / 1	-	1 / 1	-	-	-	4 / 4	1 / 1	6 / 6	11 / 11
USEPA AR&E	-	-	-	-	-	1 / 1	-	-	-	-	-	1 / 1	1 / 1
WA (Total)	10 / 10	1 / 2	4 / 4	3 / 3	1 / 5	6 / 6	-	0 / 2	-	49 / 49	18 / 27	16 / 18	83 / 94
State	10 / 10	1 / 2	4 / 4	2 / 2	-	5 / 5	-	0 / 2	-	31 / 31	2 / 5	12 / 12	45 / 48
Puget Sound	-	-	-	-	1 / 3	-	-	-	-	6 / 6	12 / 16	1 / 1	19 / 23
Olympic	-	-	-	-	-	-	-	-	-	3 / 3	-	2 / 2	5 / 5
Southwest	-	-	-	1 / 1	-	-	-	-	-	3 / 3	-	1 / 1	4 / 4
Northwest	-	-	-	-	-	-	-	-	-	1 / 1	-	-	1 / 1
Spokane Co.	-	-	-	-	0 / 2	-	-	-	-	1 / 1	3 / 5	-	4 / 6
Tri-County	-	-	-	-	-	-	-	-	-	-	1 / 1	-	1 / 1
Yakima	-	-	-	-	-	-	-	-	-	4 / 4	-	-	4 / 4
National Prk Service	-	-	-	-	-	1 / 1	-	-	-	-	-	2 / 2	2 / 2
Regional Total	21 / 21	3 / 4	10 / 10	6 / 6	3 / 7	12 / 12	1 / 1	1 / 4	0 / 0	106 / 106	31 / 42	51 / 51	188 / 199
Total (SLAMS+NAMS+SPM)	34 / 35			21 / 25			2 / 5			188 / 199			

- a. Number of SLAMS monitors excluding NAMS.
- b. Number of monitors operating/required.
- c. Number of monitors operating in 1990/planned in 1991.

TABLE 12. National Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

Mar 1991

Region	Year Ending Dec 31	TSP			PM-10			Pb			SO <sub>2</sub>			
		a	b	c	a	b	c	a	b	c	a	b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SO <sub>2</sub> bubbler	NAMS	SPM
I	1983	56 / 59 <sup>c</sup>	48 / 48	-	-	-	-	29 / 29 <sup>c</sup>	6 / 6	-	30 / 31	-	20 / 20	-
	1984	55 / (d)	48 / 48	-	-	-	-	31 / (d)	8 / 8	-	29 / (d)	-	20 / 20	-
	1985	54 / 53	48 / 48	-	-	-	-	30 / 30	8 / 8	-	30 / 28	-	19 / 20	-
	1986	55 / 52	45 / 45	-	-	-	-	38 / 38	8 / 8	-	26 / 26	-	18 / 18	-
	1987	55 / 98	45 / 0	-	27 / 17	- / 18	-	38 / 35	8 / 8	-	24 / 24	-	20 / 20	-
	1988	62 / 46	-	39 / 43	44 / 67	16 / 18	30 / 34	19 / 18	8 / 8	5 / 7	25 / 29	-	20 / 20	19 / 19
	1989	43 / 37	1 / 1	21 / 23	64 / 73	23 / 23	24 / 25	19 / 17	8 / 8	4 / 9	28 / 30	-	20 / 20	8 / 10
	1990	38 / 24	-	20 / 20	75 / 63	23 / 23	20 / 20	13 / 13	8 / 8	11 / 9	28 / 27	-	20 / 20	9 / 9
	II	1983	159 / 166	42 / 43	-	-	-	-	15 / 16	11 / 11	-	28 / 31	-	24 / 26
1984		106 / (d)	41 / 41	-	-	-	-	17 / (d)	11 / 11	-	29 / (d)	-	25 / 25	-
1985		108 / 109	41 / 41	-	-	-	-	18 / 18	10 / 11	-	29 / 30	-	25 / 25	-
1986		105 / 94	41 / 41	-	-	-	-	18 / 17	11 / 11	-	30 / 29	-	21 / 21	-
1987		82 / 89	40 / 3	-	33 / 33	- / 23	-	17 / 14	10 / 11	-	24 / 27	-	21 / 21	-
1988		80 / 103	3 / 3	1 / 1	20 / 67	20 / 23	8 / 5	17 / 15	11 / 11	1 / 0	27 / 26	-	19 / 20	3 / 3
1989		64 / 46	-	-	48 / 71	23 / 23	1 / 1	12 / 13	12 / 12	-	26 / 27	-	19 / 20	-
1990		48 / 48	-	3 / 3	49 / 76	23 / 23	-	17 / 17	10 / 10	1 / 1	27 / 26	-	17 / 17	-
III		1983	204 / (d)	88 / 88	-	-	-	-	30 / 30	10 / 10	-	40 / 40	-	43 / 43
	1984	206 / (d)	88 / 88	-	-	-	-	28 / (d)	10 / 10	-	39 / (d)	-	43 / 43	-
	1985	171 / 171	88 / 88	-	-	-	-	37 / 37	10 / 10	-	39 / 39	-	42 / 42	-
	1986	170 / 170	87 / 87	-	-	-	-	38 / 38	10 / 10	-	41 / 41	-	42 / 42	-
	1987	169 / 121	87 / 0	-	43 / 40	- / 30	-	38 / 36	10 / 10	-	36 / 36	-	39 / 39	-
	1988	-	1 / 1	205 / 205	29 / 44	25 / 25	-	32 / 32	10 / 10	12 / 12	37 / 37	-	39 / 38	13 / 13
	1989	-	-	190 / 190	62 / 62	26 / 26	-	32 / 32	10 / 10	11 / 11	35 / 35	-	39 / 38	23 / 23
	1990	-	-	157 / 157	77 / 77	26 / 26	-	29 / 29	10 / 10	12 / 12	35 / 35	-	39 / 39	19 / 19
	IV	1983	385 / 385	97 / 98	-	-	-	-	13 / 13	13 / 14	-	52 / 52	6 / 6 <sup>c</sup>	15 / 15
1984		382 / (d)	96 / 96	-	-	-	-	13 / (d)	13 / 14	-	62 / (d)	3 / (d)	15 / 15	-
1985		377 / 377	96 / 96	-	-	-	-	14 / 14	12 / 14	-	48 / 49	-	15 / 15	-
1986		388 / 382	91 / 91	-	-	-	-	16 / 16	15 / 15	-	51 / 51	-	13 / 5	-
1987		332 / 365	85 / 0	-	48 / 34	- / 30	-	13 / 13	13 / 13	-	52 / 52	-	12 / 12	-
1988		330 / 330	-	76 / 76	53 / 53	24 / 24	9 / 9	16 / 16	15 / 22	24 / 24	51 / 51	9 / 9	13 / 13	18 / 18
1989		320 / 310	-	61 / 55	72 / 78	25 / 28	9 / 10	17 / 17	16 / 22	35 / 35	50 / 52	2 / 2	12 / 14	18 / 18
1990		320 / 310	-	61 / 55	94 / 98	26 / 28	18 / 19	17 / 18	20 / 22	43 / 43	44 / 49	2 / 2	13 / 14	21 / 21

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TABLE 12. National Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

(continued)

Mar 1991

Year Region Ending Dec 31	TSP			PM-10			Pb			SO2				
	a	b	c	a	b	c	a	b	c	a	b	c		
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SLAMS bubbler	NAMS	SPM	
V	1983	482 / 614	144 / 144	-	-	-	-	44 / 44	21 / 22	-	58 / 63	-	78 / 78	-
	1984	489 / (d)	144 / 144	-	-	-	-	42 / (d)	21 / 22	-	60 / (d)	-	78 / 78	-
	1985	492 / 466	144 / 144	-	-	-	-	51 / 60	21 / 22	-	63 / 64	-	78 / 78	-
	1986	448 / 378	135 / 125	-	-	-	-	46 / 45	22 / 22	-	56 / 55	-	73 / 66	-
	1987	326 / 421	117 / 0	-	106 / 83	- / 51	-	41 / 43	23 / 22	-	62 / 52	-	55 / 54	-
	1988	61 / 51	-	120 / 62	102 / 135	59 / 60	6 / 9	56 / 34	19 / 19	34 / 15	59 / 58	-	48 / 48	12 / 10
	1989	57 / 64	1 / 1	62 / 65	129 / 140	59 / 58	15 / 20	34 / 34	18 / 20	17 / 18	58 / 59	-	47 / 45	11 / 18
	1990	53 / 11	-	65 / 100	140 / 134	59 / 59	20 / 19	34 / 34	20 / 20	20 / 23	59 / 55	-	44 / 45	16 / 18
VI	1983	144 / 149	66 / 66	-	-	-	-	26 / 27	14 / 16	-	30 / 31	1 / 1	8 / 8	-
	1984	145 / (d)	66 / 66	-	-	-	-	25 / (d)	15 / 16	-	28 / (d)	0 / (d)	8 / 8	-
	1985	135 / 138	66 / 66	-	-	-	-	25 / 25	16 / 16	-	26 / 27	-	8 / 8	-
	1986	135 / 135	66 / 66	-	-	-	-	25 / 25	16 / 16	-	24 / 25	-	6 / 6	-
	1987	121 / 122	62 / 0	-	40 / 29	- / 34	-	25 / 25	16 / 16	-	26 / 24	-	6 / 6	-
	1988	209 / 69	1 / 1	41 / 18	31 / 69	36 / 36	-	23 / 20	16 / 15	79 / 33	27 / 29	-	8 / 8	12 / 12
	1989	35 / 28	-	16 / 14	74 / 78	36 / 36	1 / 1	17 / 17	14 / 14	10 / 10	28 / 28	-	8 / 8	10 / 9
	1990	30 / 30	-	3 / 3	68 / 73	35 / 35	11 / 11	19 / 18	14 / 14	9 / 7	28 / 28	-	8 / 8	11 / 10
VII	1983	106 / 107	42 / 42	-	-	-	-	12 / 12	6 / 6	-	13 / 16	-	11 / 11	-
	1984	105 / (d)	42 / 42	-	-	-	-	12 / (d)	6 / 6	-	13 / (d)	-	10 / 10	-
	1985	101 / 101	42 / 42	-	-	-	-	12 / 12	6 / 6	-	12 / 12	-	10 / 10	-
	1986	106 / 106	40 / 17	-	-	-	-	10 / 11	6 / 6	-	14 / 14	-	9 / 7	-
	1987	88 / 82	32 / 0	-	34 / 34	- / 15	-	11 / 11	6 / 6	-	17 / 19	-	8 / 10	-
	1988	65 / 71	-	7 / 6	27 / 34	16 / 16	5 / 5	9 / 9	6 / 6	9 / 9	15 / 15	-	10 / 10	11 / 10
	1989	62 / 59	-	30 / 29	31 / 33	16 / 16	7 / 6	9 / 9	6 / 6	10 / 10	15 / 15	-	10 / 10	12 / 12
	1990	50 / 50	-	30 / 30	34 / 33	16 / 16	8 / 8	9 / 9	6 / 6	12 / 17	16 / 16	-	10 / 10	7 / 7
VIII	1983	112 / 112	26 / 26	-	-	-	-	13 / 13	4 / 4	-	9 / 9	-	5 / 5	-
	1984	140 / (d)	26 / 26	-	-	-	-	15 / (d)	4 / 4	-	13 / (d)	-	5 / 5	-
	1985	117 / 112	26 / 26	-	-	-	-	11 / 11	4 / 4	-	10 / 9	-	5 / 5	-
	1986	112 / 95	26 / 26	-	-	-	-	14 / 14	4 / 4	-	9 / 11	-	4 / 5	-
	1987	44 / 36	23 / 0	-	54 / 56	- / 18	-	4 / 4	4 / 4	-	11 / 11	-	5 / 5	-
	1988	41 / 32	-	6 / 4	63 / 67	15 / 16	5 / 8	7 / 7	4 / 4	-	11 / 11	-	4 / 4	4 / 4
	1989	27 / 28	-	17 / 13	53 / 63	16 / 16	19 / 17	6 / 6	4 / 4	1 / 1	11 / 11	-	4 / 4	17 / 17
	1990	25 / 23	-	8 / 9	57 / 71	16 / 16	16 / 16	10 / 10	4 / 4	3 / 2	10 / 10	-	4 / 4	17 / 17

TABLE 12. National Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

Region	Year Ending Dec-31	TSP			PM-10			Pb			SO2			
		a	b	c	a	b	c	a	b	c	a	b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	bubbler	NAMS	SPM
IX	1983	154 / 158	62 / 62	-	-	-	-	66 / 66	14 / 14	-	57 / 57	12 / 12	11 / 11	-
	1984	150 / (d)	62 / 62	-	-	-	-	73 / (d)	14 / 14	-	53 / (d)	7 / (d)	11 / 11	-
	1985	152 / 152	61 / 61	-	-	-	-	75 / 75	14 / 14	-	55 / 55	6 / 6	12 / 12	-
	1986	132 / 132	59 / 59	-	-	c	-	62 / 62	17 / 17	-	58 / 58	6 / 6	11 / 11	-
	1987	131 / 150	57 / 0	-	129 / 104	- / 36	-	40 / 40	16 / 17	-	53 / 52	5 / 5	10 / 12	-
	1988	78 / 78	1 / 1	2 / 2	105 / 108	40 / 43	7 / 8	30 / 27	16 / 16	3 / 3	52 / 52	5 / 5	10 / 12	14 / 14
	1989	76 / 76	1 / 1	2 / 2	106 / 110	41 / 43	12 / 12	33 / 32	16 / 16	2 / 2	62 / 50	5 / 5	13 / 13	12 / 14
	1990	75 / 75	-	7 / 7	122 / 122	41 / 43	22 / 22	25 / 31	16 / 16	3 / 3	36 / 36	2 / 2	12 / 12	13 / 13
	X	1983	76 / 76	27 / 27	-	-	-	-	14 / 14	4 / 4	-	12 / 12	-	5 / 5
1984		75 / (d)	27 / 27	-	-	-	-	24 / (d)	4 / 4	-	10 / (d)	-	5 / 5	-
1985		78 / 78	27 / 27	-	-	-	-	25 / 25	4 / 4	-	10 / 10	-	5 / 5	-
1986		82 / 82	27 / 27	-	-	-	-	22 / 22	4 / 4	-	8 / 8	-	4 / 4	-
1987		107 / 45	25 / 0	-	69 / 55	- / 16	-	18 / 16	4 / 4	-	15 / 15	-	3 / 3	-
1988		100 / 37	-	17 / 17	50 / 59	20 / 21	-	21 / 13	4 / 4	-	13 / 13	-	4 / 4	4 / 4
1989		41 / 28	-	3 / 3	55 / 55	20 / 20	-	8 / 8	4 / 4	3 / 3	11 / 11	-	4 / 4	5 / 2
1990		16 / 16	-	8 / 8	46 / 46	17 / 19	18 / 18	6 / 6	3 / 4	1 / 1	10 / 10	-	4 / 4	2 / 2
Total		1983	1860 / 1726	642 / 644	-	-	-	-	262 / 264	108 / 107	-	329 / 342	19 / 19	220 / 222
	1984	1853 / (d)	640 / 640	-	-	-	-	280 / (d)	106 / 109	-	336 / (d)	10 / (d)	220 / 220	-
	1985	1765 / 1757	639 / 639	-	-	-	-	296 / 307	105 / 109	-	322 / 321	6 / 6	216 / 220	-
	1986	1733 / 1626	617 / 584	-	-	-	-	289 / 288	113 / 113	-	317 / 318	6 / 6	201 / 185	-
	1987	1455 / 1539	573 / 3	-	563 / 485	0 / 271	-	243 / 238	110 / 111	-	310 / 312	5 / 5	179 / 182	-
	1988	1046 / 817	6 / 6	514 / 434	524 / 723	271 / 282	69 / 75	210 / 191	109 / 115	167 / 103	317 / 321	14 / 14	175 / 178	110 / 107
	1989	724 / 666	3 / 3	402 / 394	692 / 763	284 / 267	88 / 92	167 / 185	110 / 116	93 / 99	314 / 318	7 / 7	176 / 177	116 / 121
	1990	655 / 587	0 / 0	362 / 392	762 / 793	282 / 289	133 / 135	179 / 185	111 / 114	115 / 118	293 / 294	4 / 4	171 / 173	115 / 114
	Grand Total	1983		2502 / 2370					365 / 371				568 / 583	
	1984		2493 / (d)					386 / (d)				566 / (d)		
SLAMS	1985		2424 / 2396					403 / 416				544 / 547		
NAMS	1986		2350 / 2210					402 / 401				524 / 509		
SPM)	1987		2028 / 1542		583 / 756			353 / 349				494 / 499		
	1988		1566 / 1257		864 / 1080			486 / 409				616 / 620		
	1989		1129 / 1063		1064 / 1142			390 / 400				613 / 623		
	1990		1017 / 978		1177 / 1217			405 / 417				583 / 585		

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in current year/planned during next year.

d. Not available.

TABLE 12. National Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

Region	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals	
		a	b	c	a	b	c	a	b	c	a	b	c		
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SLAMS bubbler	NAMS	SPM	SLAMS	NAMS		SPM
I	1983	13 / 13	6 / 6	-	16 / 16	16 / 16	-	10 / 10	-	1 / 2	-	156 / 156	97 / 98	-	253 / 256
	1984	13 / (d)	6 / 6	-	16 / (d)	16 / 16	-	9 / (d)	-	2 / 2	-	153 / 151	100 / 100	-	253 / 251
	1985	13 / 12	6 / 6	-	16 / 13	16 / 16	-	8 / 7	-	2 / 2	-	151 / 141	99 / 100	-	250 / 241
	1986	12 / 12	6 / 6	-	14 / 14	16 / 16	-	8 / 8	-	2 / 2	-	153 / 150	95 / 97	-	248 / 247
	1987	11 / 11	6 / 6	-	14 / 14	16 / 16	-	8 / 8	-	2 / 2	-	177 / 209	99 / 72	-	276 / 281
	1988	11 / 11	6 / 6	-	15 / 15	16 / 16	11 / 9	9 / 9	-	2 / 2	1 / 2	185 / 195	70 / 72	105 / 114	360 / 361
	1989	10 / 10	6 / 6	0 / 1	15 / 17	16 / 16	10 / 10	9 / 9	-	2 / 2	2 / 4	168 / 193	78 / 78	69 / 82	335 / 353
	1990	11 / 11	6 / 6	-	17 / 23	16 / 16	12 / 13	9 / 10	-	2 / 2	4 / 3	191 / 171	77 / 77	76 / 74	344 / 322
	II	1983	15 / 18	11 / 11	-	18 / 19	17 / 18	-	5 / 7	-	6 / 6	-	240 / 257	111 / 115	-
1984		17 / (d)	11 / 11	-	15 / (d)	18 / 18	-	6 / (d)	-	6 / 6	-	190 / 205	112 / 112	-	302 / 317
1985		19 / 19	11 / 11	-	17 / 17	17 / 18	-	7 / 7	-	6 / 6	-	198 / 200	110 / 112	-	308 / 312
1986		18 / 19	11 / 11	-	16 / 17	18 / 19	-	7 / 7	-	6 / 6	-	194 / 193	108 / 109	-	302 / 292
1987		17 / 19	10 / 11	-	16 / 16	18 / 18	-	7 / 7	-	6 / 6	-	196 / 215	105 / 95	-	301 / 310
1988		17 / 21	11 / 11	2 / 2	16 / 16	18 / 18	3 / 3	7 / 7	-	5 / 8	2 / 2	184 / 255	87 / 84	17 / 16	258 / 365
1989		17 / 21	11 / 11	2 / 2	17 / 18	18 / 18	2 / 2	7 / 7	-	5 / 8	1 / 1	189 / 203	88 / 82	6 / 6	283 / 301
1990		18 / 21	10 / 11	-	18 / 18	18 / 18	3 / 4	7 / 8	-	6 / 8	1 / 1	184 / 216	84 / 87	8 / 9	276 / 312
III		1983	44 / 44	10 / 10	-	55 / 55	21 / 21	-	41 / 41	8 / 8	8 / 8	-	422 / 218	180 / 180	-
	1984	42 / (d)	10 / 10	-	55 / (d)	21 / 21	-	40 / (d)	-	8 / 8	-	410 / 236	180 / 180	-	590 / 416
	1985	43 / 43	10 / 10	-	55 / 55	21 / 21	-	33 / 33	-	8 / 8	-	378 / 378	179 / 179	-	557 / 557
	1986	43 / 43	10 / 10	-	57 / 57	21 / 21	-	29 / 29	-	8 / 8	-	379 / 379	178 / 178	-	556 / 556
	1987	43 / 43	10 / 10	-	57 / 57	21 / 21	-	32 / 32	-	8 / 8	-	418 / 365	175 / 118	-	591 / 483
	1988	39 / 39	10 / 10	3 / 3	58 / 59	21 / 21	6 / 6	30 / 30	-	8 / 8	6 / 6	225 / 241	114 / 114	245 / 245	584 / 600
	1989	39 / 39	10 / 10	3 / 3	58 / 58	21 / 21	5 / 5	32 / 32	-	8 / 8	7 / 7	258 / 258	114 / 114	239 / 239	611 / 611
	1990	40 / 40	10 / 10	2 / 2	59 / 59	21 / 21	5 / 5	32 / 32	-	8 / 8	6 / 6	272 / 272	114 / 114	201 / 201	587 / 587
	IV	1983	52 / 54	22 / 22	-	42 / 42	34 / 34	-	19 / 20	3 / 3	4 / 4	-	572 / 575	185 / 187	-
1984		47 / (d)	21 / 22	-	37 / (d)	33 / 34	-	16 / (d)	3 / (d)	3 / 4	-	563 / 565	181 / 185	-	744 / 750
1985		45 / 48	19 / 22	-	41 / 41	34 / 34	-	13 / 13	-	4 / 4	-	538 / 542	180 / 185	-	718 / 727
1986		49 / 49	22 / 22	-	40 / 44	34 / 34	-	12 / 12	-	4 / 4	-	558 / 554	179 / 171	-	735 / 725
1987		44 / 44	21 / 21	-	44 / 44	37 / 40	-	14 / 14	-	4 / 4	-	547 / 566	172 / 120	-	719 / 688
1988		42 / 42	22 / 24	-	48 / 48	43 / 50	25 / 25	14 / 14	-	4 / 4	6 / 6	563 / 563	121 / 137	158 / 158	842 / 858
1989		40 / 42	24 / 24	3 / 2	49 / 50	49 / 52	26 / 27	14 / 18	-	4 / 6	7 / 6	564 / 569	132 / 144	159 / 153	855 / 866
1990		43 / 45	24 / 24	3 / 2	51 / 55	51 / 52	26 / 27	14 / 18	-	4 / 6	10 / 9	585 / 595	138 / 146	182 / 176	905 / 917

TABLE 12. National Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

Region	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals	
		a	b	c	a	b	c	a	b	c	a	b	c		
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	bubbler	NAMS	SPM	SLAMS	NAMS		SPM
V	1983	44 / 47	20 / 20	-	75 / 76	47 / 47	-	15 / 25	13 / 13	12 / 12	-	711 / 782	322 / 323	-	1033 / 1105
	1984	47 / (d)	20 / 20	-	77 / (d)	47 / 47	-	15 / (d)	-	12 / 12	-	730 / 740	322 / 323	-	1052 / 1063
	1985	47 / 48	20 / 20	-	84 / 82	47 / 47	-	15 / 19	-	11 / 12	-	752 / 739	318 / 323	-	1070 / 1062
	1986	44 / 43	20 / 20	-	74 / 73	48 / 48	-	14 / 11	-	12 / 12	-	662 / 605	310 / 293	-	992 / 898
	1987	47 / 45	20 / 20	-	74 / 74	50 / 50	-	10 / 9	-	12 / 12	-	656 / 727	277 / 209	-	933 / 936
	1988	47 / 48	20 / 20	4 / 5	80 / 82	52 / 52	9 / 11	14 / 14	-	12 / 12	3 / 3	399 / 422	210 / 211	190 / 115	799 / 748
	1989	47 / 47	20 / 20	4 / 7	84 / 86	49 / 49	10 / 14	16 / 13	-	12 / 12	2 / 5	425 / 433	205 / 205	121 / 145	751 / 783
	1990	46 / 43	20 / 20	8 / 9	86 / 93	48 / 50	14 / 18	13 / 15	-	11 / 12	5 / 5	431 / 365	202 / 206	148 / 190	781 / 781
VI	1983	16 / 17	14 / 14	-	32 / 34	28 / 28	-	16 / 16	15 / 15	6 / 6	-	279 / 290	136 / 136	-	415 / 428
	1984	16 / (d)	14 / 14	-	33 / (d)	28 / 28	-	16 / (d)	13 / (d)	6 / 6	-	276 / 274	137 / 136	-	413 / 412
	1985	17 / 17	14 / 14	-	30 / 33	28 / 28	-	15 / 16	13 / 13	6 / 6	-	261 / 269	138 / 138	-	399 / 407
	1986	18 / 17	14 / 14	-	29 / 34	28 / 28	-	15 / 15	-	6 / 6	-	246 / 251	136 / 136	-	382 / 387
	1987	20 / 19	16 / 16	-	34 / 31	28 / 28	-	16 / 14	-	7 / 7	-	282 / 264	135 / 107	-	417 / 371
	1988	16 / 16	14 / 16	5 / 4	33 / 39	29 / 29	10 / 9	16 / 16	-	6 / 6	6 / 6	355 / 278	110 / 111	152 / 81	617 / 470
	1989	15 / 15	16 / 16	6 / 6	38 / 38	28 / 28	7 / 9	17 / 17	-	6 / 6	6 / 5	224 / 221	108 / 108	66 / 54	388 / 383
	1990	16 / 17	16 / 16	5 / 5	39 / 44	28 / 28	9 / 12	17 / 27	-	6 / 6	7 / 6	217 / 237	107 / 108	65 / 54	376 / 399
VII	1983	18 / 18	4 / 4	-	18 / 18	11 / 11	-	6 / 7	0 / 1	4 / 4	-	173 / 179	78 / 78	-	251 / 257
	1984	18 / (d)	4 / 4	-	20 / (d)	11 / 11	-	7 / (d)	-	4 / 4	-	175 / 181	77 / 77	-	252 / 258
	1985	17 / 19	4 / 4	-	18 / 19	11 / 11	-	6 / 8	1 / 1	4 / 4	-	170 / 172	77 / 77	-	247 / 249
	1986	17 / 17	6 / 6	-	19 / 19	11 / 11	-	7 / 6	-	4 / 4	-	173 / 175	78 / 51	-	249 / 226
	1987	18 / 19	6 / 6	-	20 / 20	11 / 11	-	8 / 8	-	4 / 4	-	196 / 193	67 / 52	-	263 / 245
	1988	17 / 16	6 / 6	2 / 2	18 / 18	11 / 11	6 / 5	7 / 7	-	4 / 4	1 / 1	178 / 170	53 / 53	41 / 38	272 / 261
	1989	17 / 17	6 / 6	3 / 3	18 / 18	11 / 11	4 / 4	7 / 6	-	4 / 4	2 / 2	159 / 157	53 / 53	68 / 68	280 / 276
	1990	17 / 17	6 / 6	1 / 1	19 / 19	11 / 11	2 / 2	6 / 6	-	4 / 4	3 / 3	151 / 150	53 / 53	63 / 68	287 / 271
VIII	1983	20 / 20	4 / 4	-	13 / 13	6 / 6	-	7 / 7	-	2 / 2	-	174 / 174	47 / 47	-	221 / 221
	1984	20 / (d)	4 / 4	-	12 / (d)	6 / 6	-	6 / (d)	-	2 / 2	-	206 / 188	47 / 47	-	253 / 235
	1985	21 / 20	4 / 4	-	13 / 13	6 / 6	-	6 / 7	-	2 / 2	-	178 / 172	47 / 47	-	225 / 219
	1986	19 / 19	4 / 4	-	12 / 13	6 / 6	-	5 / 7	-	2 / 2	-	172 / 159	46 / 47	-	218 / 208
	1987	18 / 20	4 / 4	-	12 / 12	6 / 6	-	6 / 6	-	2 / 2	-	149 / 145	44 / 39	-	193 / 184
	1988	20 / 20	4 / 4	-	13 / 13	6 / 8	1 / 1	6 / 8	-	2 / 2	-	163 / 158	35 / 38	16 / 14	214 / 210
	1989	20 / 20	4 / 4	0 / 1	13 / 13	6 / 8	1 / 0	6 / 8	-	2 / 2	6 / 5	138 / 149	36 / 36	60 / 54	234 / 241
	1990	20 / 24	4 / 4	2 / 2	13 / 13	6 / 8	-	6 / 6	-	2 / 2	8 / 8	141 / 157	36 / 38	54 / 56	231 / 251

TABLE 12. National Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

Year Region Ending Dec 31	CO			O3			NO2			Subtotal			Totals		
	a	b	c	a	b	c	SLAMS		NAMS	SPM	a	b		c	
	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	continuous	bubbler			SLAMS	NAMS		SPM	
IX	1983	78 / 78	19 / 20	-	116 / 116	28 / 28	-	66 / 66	-	12 / 12	-	549 / 553	146 / 147	-	695 / 700
	1984	73 / (d)	20 / 20	-	111 / (d)	28 / 28	-	61 / (d)	-	12 / 12	-	528 / 530	147 / 147	-	675 / 677
	1985	79 / 79	20 / 20	-	119 / 119	28 / 28	-	69 / 69	-	12 / 12	-	555 / 555	147 / 147	-	702 / 702
	1986	80 / 80	20 / 20	-	112 / 112	29 / 29	-	69 / 69	-	13 / 13	-	519 / 519	149 / 149	-	668 / 668
	1987	78 / 80	20 / 20	-	112 / 112	25 / 28	-	68 / 68	-	12 / 13	-	614 / 609	140 / 126	-	754 / 735
	1988	81 / 83	18 / 20	13 / 13	116 / 117	25 / 28	20 / 20	67 / 68	-	12 / 12	10 / 10	534 / 538	122 / 132	69 / 70	725 / 738
	1989	86 / 87	20 / 20	10 / 18	123 / 125	28 / 28	26 / 27	68 / 68	-	12 / 12	8 / 9	548 / 553	131 / 133	73 / 82	752 / 768
	1990	85 / 85	20 / 20	14 / 14	115 / 115	27 / 28	50 / 49	75 / 75	-	12 / 12	26 / 26	535 / 541	128 / 131	135 / 134	798 / 806
	X	1983	26 / 26	4 / 4	-	7 / 7	7 / 7	-	1 / 1	-	2 / 2	-	136 / 136	48 / 49	-
1984		26 / (d)	4 / 4	-	7 / (d)	7 / 7	-	1 / (d)	-	2 / 2	-	143 / 143	48 / 49	-	192 / 192
1985		27 / 27	4 / 4	-	8 / 8	7 / 7	-	1 / 1	-	2 / 2	-	149 / 149	48 / 49	-	198 / 198
1986		28 / 28	4 / 4	-	8 / 8	7 / 7	-	1 / 1	-	2 / 2	-	147 / 147	48 / 48	-	195 / 195
1987		34 / 36	3 / 4	-	10 / 10	6 / 7	-	1 / 1	-	1 / 2	-	254 / 178	41 / 36	-	295 / 214
1988		32 / 33	2 / 4	7 / 7	7 / 10	6 / 7	4 / 4	1 / 1	-	0 / 4	-	224 / 166	35 / 44	32 / 32	291 / 242
1989		30 / 33	3 / 4	7 / 4	6 / 5	6 / 7	8 / 8	1 / 1	-	1 / 4	1 / 1	181 / 141	37 / 43	27 / 21	215 / 205
1990		21 / 21	3 / 4	10 / 10	6 / 6	3 / 7	12 / 12	1 / 1	-	1 / 4	-	106 / 106	31 / 42	61 / 51	168 / 199
Total		1983	325 / 335	114 / 115	-	392 / 398	215 / 216	-	188 / 200	39 / 40	67 / 68	-	3412 / 3322	1351 / 1362	-
	1984	319 / (d)	114 / 115	-	383 / (d)	215 / 216	-	177 / (d)	18 / (d)	67 / 68	-	3374 / 3218	1352 / 1358	-	4726 / 4571
	1985	328 / 332	112 / 115	-	402 / 400	215 / 216	-	175 / 189	14 / 14	67 / 68	-	3330 / 3317	1344 / 1357	-	4674 / 4674
	1986	326 / 325	117 / 119	-	381 / 391	218 / 219	-	168 / 167	-	69 / 69	-	3220 / 3121	1325 / 1279	-	4545 / 4400
	1987	330 / 336	118 / 120	-	393 / 390	217 / 225	-	168 / 166	-	68 / 62	-	3487 / 3471	1255 / 974	-	4742 / 4445
	1988	322 / 329	115 / 123	36 / 36	404 / 417	226 / 240	95 / 93	179 / 172	-	65 / 62	34 / 35	3010 / 2984	957 / 1006	1025 / 883	4992 / 4873
	1989	321 / 331	122 / 123	38 / 45	420 / 428	231 / 238	99 / 106	179 / 179	-	66 / 64	42 / 45	2844 / 2877	982 / 1008	878 / 902	4704 / 4797
	1990	317 / 324	121 / 123	45 / 45	423 / 445	229 / 239	133 / 142	180 / 198	-	66 / 64	70 / 67	2818 / 2830	970 / 1002	973 / 1013	4756 / 4845
	Grand Total	1983	439 / 450			607 / 612			282 / 298			4763 / 4684			
1984		433 / (d)			588 / (d)			250 / (d)			4726 / 4571				
1985		440 / 447			617 / 616			246 / 252			4674 / 4674				
1986		443 / 444			599 / 610			227 / 228			4545 / 4400				
1987		448 / 456			610 / 615			226 / 228			4742 / 4445				
1988		473 / 488			725 / 750			262 / 269			4992 / 4873				
1989		481 / 499			750 / 772			277 / 288			4704 / 4787				
1990		483 / 492			785 / 826			306 / 329			4756 / 4845				

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in current year/planned during next year.

d. Not available.

TABLE 13. Region I Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO <sub>2</sub>				
		a		b	c	a		b	c	a		b		c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SLAMS bubbler	NAMS	SPM	
CT	1983	18 / 18	22 / 22	-	-	-	-	16 / 16	-	-	17 / 17	18	-	2 / 2	-
	1984	18 / (d)	22 / 22	-	-	-	-	18 / (d)	2 / 2	-	17 / (d)	-	-	2 / 2	-
	1985	18 / 18	22 / 22	-	-	-	-	18 / 18	2 / 2	-	16 / 17	-	-	2 / 2	-
	1986	18 / 18	22 / 22	-	-	-	-	25 / 25	2 / 2	-	18 / 18	-	-	2 / 2	-
	1987	18 / 39	22 / 0	-	5 / 2	0 / 5	-	25 / 25	2 / 2	-	14 / 14	-	-	4 / 4	-
	1988	3 / 3	-	-	30 / 32	6 / 7	7 / 7	4 / 3	2 / 2	-	14 / 13	-	-	4 / 4	-
	1989	2 / 0	-	1 / 1	31 / 31	12 / 12	6 / 6	4 / 3	2 / 2	-	13 / 12	-	-	4 / 4	-
	1990	1 / 1	-	-	31 / 17	12 / 12	2 / 2	3 / 3	2 / 2	2 / 2	9 / 9	-	-	4 / 4	-
	ME	1983	9 / 9	1 / 1	-	-	-	-	2 / 2	-	-	-	-	-	2 / 2
1984		8 / (d)	1 / 1	-	-	-	-	2 / (d)	-	-	-	-	-	2 / 2	-
1985		10 / 10	1 / 1	-	-	-	-	2 / 2	-	-	-	-	-	2 / 2	-
1986		10 / 10	1 / 1	-	-	-	-	2 / 2	-	-	-	-	-	2 / 2	-
1987		10 / 11	1 / 0	-	4 / 7	0 / 1	-	2 / 2	-	-	0 / 1	-	-	2 / 2	-
1988		11 / 4	-	34 / 38	7 / 15	1 / 1	16 / 21	1 / 2	-	3 / 5	1 / 5	-	-	2 / 2	14 / 13
1989		5 / 5	-	19 / 19	12 / 14	1 / 1	16 / 17	2 / 2	-	4 / 7	4 / 5	-	-	2 / 2	7 / 9
1990		5 / 5	-	19 / 19	14 / 16	1 / 1	17 / 17	2 / 2	-	7 / 7	6 / 6	-	-	2 / 2	8 / 8
MA		1983	6 / 7	17 / 17	-	-	-	-	2 / 2	4 / 4	-	6 / 6	-	-	11 / 11
	1984	6 / (d)	17 / 17	-	-	-	-	2 / (d)	4 / 4	-	6 / (d)	-	-	11 / 11	-
	1985	4 / 3	17 / 17	-	-	-	-	2 / 2	4 / 4	-	5 / 2	-	-	10 / 11	-
	1986	3 / 3	14 / 14	-	-	-	-	2 / 2	4 / 4	-	2 / 2	-	-	9 / 9	-
	1987	3 / 16	14 / 0	-	8 / 1	0 / 8	-	2 / 0	4 / 4	-	2 / 2	-	-	9 / 9	-
	1988	17 / 18	-	2 / 2	2 / 6	5 / 8	-	2 / 0	4 / 4	-	2 / 2	-	-	9 / 9	0 / 2
	1989	20 / 20	1 / 1	-	8 / 8	8 / 8	1 / 1	-	4 / 4	-	2 / 2	-	-	9 / 9	-
	1990	20 / 6	-	-	11 / 11	6 / 6	-	-	4 / 4	-	2 / 1	-	-	9 / 9	-
	NH	1983	14 / 14	1 / 1	-	-	-	-	7 / 7	-	-	4 / 4	-	-	1 / 1
1984		12 / (d)	1 / 1	-	-	-	-	7 / (d)	-	-	4 / (d)	-	-	1 / 1	-
1985		11 / 11	1 / 1	-	-	-	-	6 / 6	-	-	5 / 5	-	-	1 / 1	-
1986		13 / 13	1 / 1	-	-	-	-	7 / 7	-	-	6 / 6	-	-	1 / 1	-
1987		13 / 14	1 / 0	-	4 / 4	0 / 1	-	7 / 7	-	-	6 / 5	-	-	1 / 1	-
1988		14 / 12	-	1 / 1	2 / 8	1 / 1	2 / 1	7 / 7	-	2 / 2	6 / 8	-	-	1 / 1	5 / 4
1989		5 / 1	-	0 / 2	8 / 15	1 / 1	1 / 1	7 / 6	-	0 / 2	6 / 10	-	-	1 / 1	1 / 1
1990		1 / 1	-	-	14 / 14	1 / 1	1 / 1	6 / 6	-	2 / 0	10 / 10	-	-	1 / 1	1 / 1
RI		1983	6 / 6	6 / 6	-	-	-	-	2 / 2	2 / 2	-	1 / 1	-	-	3 / 3
	1984	6 / (d)	6 / 6	-	-	-	-	2 / (d)	2 / 2	-	0 / (d)	-	-	3 / 3	-
	1985	6 / 6	6 / 6	-	-	-	-	2 / 2	2 / 2	-	1 / 0	-	-	3 / 3	-
	1986	6 / 3	6 / 6	-	-	-	-	2 / 2	2 / 2	-	-	-	-	3 / 3	-
	1987	6 / 12	6 / 0	-	2 / 0	0 / 2	-	2 / 2	2 / 2	-	-	-	-	3 / 3	-
	1988	11 / 11	-	-	-	2 / 2	-	2 / 2	2 / 2	-	-	-	-	3 / 3	-
	1989	11 / 11	-	-	-	2 / 2	-	2 / 2	2 / 2	-	-	-	-	3 / 3	-
	1990	11 / 11	-	-	-	2 / 2	-	2 / 2	2 / 2	-	-	-	-	3 / 3	-



TABLE 13. Region I Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

(continued)

Mar 1991

Year	State	Ending Dec 31	TSP			PM-10			Pb			SO <sub>2</sub>		
			a	b	c	a	b	c	a	b	c	a	b	c
			SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM
	VT	1983	5 / 5 <sup>c</sup>	1 / 1	-	-	-	-	-	-	-	2 / 2	-	1 / 1
		1984	5 / (d)	1 / 1	-	-	-	-	-	-	-	2 / (d)	-	1 / 1
		1985	5 / 5	1 / 1	-	-	-	-	-	-	-	2 / 2	-	1 / 1
		1986	5 / 5	1 / 1	-	-	-	-	-	-	-	2 / 2	-	1 / 1
		1987	5 / 5	1 / 0	-	4 / 5 <sup>c</sup>	0 / 1	-	-	-	-	2 / 2	-	1 / 1
		1988	5 / 0	-	2 / 2	3 / 6	1 / 1	5 / 5	3 / 4	-	-	2 / 1	-	1 / 1
		1989	-	-	1 / 1	5 / 5	1 / 1	-	4 / 4	-	-	1 / 1	-	1 / 1
		1990	-	-	1 / 1	5 / 5	1 / 1	-	-	-	-	1 / 1	-	1 / 1
Regional		1983	58 / 59	48 / 48	-	-	-	-	29 / 29	8 / 8	-	30 / 31	-	20 / 20
Total		1984	55 / (d)	48 / 48	-	-	-	-	31 / (d)	8 / 8	-	29 / (d)	-	20 / 20
		1985	54 / 53	48 / 48	-	-	-	-	30 / 30	8 / 8	-	30 / 28	-	19 / 20
		1986	55 / 52	45 / 45	-	-	-	-	33 / 38	8 / 8	-	26 / 25	-	18 / 18
		1987	55 / 98	45 / 0	-	27 / 17	0 / 18	-	38 / ERR	8 / 8	-	24 / 24	-	20 / 20
		1988	82 / 46	0 / 0	39 / 43	44 / 67	16 / 18	30 / 34	19 / 18	8 / 8	6 / 7	25 / 29	-	20 / 19
		1989	43 / 37	1 / 1	21 / 23	64 / 73	23 / 23	24 / 25	19 / 17	8 / 8	4 / 9	29 / 30	-	20 / 8
		1990	38 / 24	0 / 0	20 / 20	75 / 63	23 / 23	20 / 20	13 / 13	8 / 8	11 / 9	28 / 27	-	20 / 9
Grand		1983		106 / 107						35 / 35			50 / 51	
Total		1984		103 / (d)						39 / (d)			48 / (d)	
SLAMS		1985		102 / 101						38 / 38			49 / 46	
NAMS		1986		100 / 97						46 / 46			44 / 44	
SPM		1987		100 / 98		27 / 35				46 / ERR			44 / 44	
		1988		101 / 89		90 / 119				32 / 33			64 / 68	
		1989		85 / 81		111 / 121				31 / 34			56 / 60	
		1990		58 / 44		118 / 106				32 / 30			57 / 56	

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in current year/planned during next year.

d. Not available.

TABLE 13. Region I Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals	
		a	b	c	a	b	c	a	b	c	a	b	c		
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	continuous	bubbler	NAMS	SPM	SLAMS	NAMS	SPM	
CT	1983	5 / 5	-	-	3 / 3	6 / 6	-	3 / 3	-	-	-	62 / 63	30 / 30	-	92 / 93
	1984	5 / (d)	-	-	3 / (d)	6 / 6	-	3 / (d)	-	-	-	64 / 64	32 / 32	-	96 / 96
	1985	5 / 5	-	-	3 / 3	6 / 6	-	3 / 3	-	-	-	63 / 64	32 / 32	-	95 / 96
	1986	5 / 4	0 / 2	-	3 / 3	6 / 6	-	3 / 3	-	-	-	70 / 69	32 / 34	-	102 / 103
	1987	3 / 3	2 / 2	-	3 / 3	6 / 6	-	3 / 3	-	-	-	71 / 89	36 / 19	-	107 / 108
	1988	3 / 3	2 / 2	-	3 / 4	6 / 6	1 / 0	3 / 3	-	-	-	60 / 61	20 / 21	8 / 7	86 / 89
	1989	3 / 3	2 / 2	-	4 / 4	6 / 6	-	3 / 3	-	-	-	60 / 56	26 / 26	7 / 7	93 / 89
	1990	3 / 3	2 / 2	-	4 / 5	6 / 6	-	3 / 3	-	-	-	54 / 41	26 / 26	4 / 4	84 / 71
ME	1983	1 / 1	-	-	2 / 2	-	-	-	-	-	-	14 / 14	3 / 3	-	17 / 17
	1984	1 / (d)	-	-	2 / (d)	-	-	-	-	-	-	13 / 13	3 / 3	-	16 / 16
	1985	1 / 1	-	-	2 / 2	-	-	-	-	-	-	15 / 15	3 / 3	-	18 / 18
	1986	1 / 1	-	-	3 / 3	-	-	-	-	-	-	16 / 16	3 / 3	-	19 / 19
	1987	1 / 1	-	-	3 / 3	-	-	-	-	-	-	20 / 25	3 / 3	-	23 / 28
	1988	1 / 1	-	-	3 / 4	-	5 / 3	-	-	-	-	24 / 31	3 / 3	72 / 80	99 / 114
	1989	-	-	0 / 1	4 / 4	-	5 / 5	-	-	-	0 / 2	27 / 30	3 / 3	51 / 60	81 / 93
	1990	-	-	-	4 / 4	-	5 / 6	-	-	-	2 / 1	31 / 33	3 / 3	58 / 58	92 / 94
MA	1983	4 / 4	4 / 4	-	5 / 5	8 / 8	-	5 / 5	-	1 / 2	-	28 / 29	45 / 46	-	73 / 75
	1984	4 / (d)	4 / 4	-	5 / (d)	8 / 8	-	4 / (d)	-	2 / 2	-	27 / 25	46 / 46	-	73 / 71
	1985	4 / 3	4 / 4	-	5 / 2	8 / 8	-	3 / 1	-	2 / 2	-	24 / 13	45 / 46	-	69 / 59
	1986	3 / 4	4 / 4	-	2 / 2	8 / 8	-	2 / 2	-	2 / 2	-	14 / 15	41 / 41	-	55 / 56
	1987	4 / 4	4 / 4	-	2 / 2	8 / 8	-	2 / 2	-	2 / 2	-	23 / 27	41 / 35	-	64 / 62
	1988	4 / 4	4 / 4	-	4 / 2	8 / 8	3 / 3	2 / 2	-	2 / 2	1 / 2	33 / 32	32 / 33	6 / 9	71 / 74
	1989	4 / 4	4 / 4	-	2 / 2	8 / 8	3 / 3	2 / 2	-	2 / 2	2 / 2	36 / 36	34 / 34	6 / 6	78 / 78
	1990	4 / 4	4 / 4	-	2 / 7	8 / 8	5 / 5	2 / 2	-	2 / 2	2 / 2	41 / 31	33 / 33	7 / 7	81 / 71
NH	1983	2 / 2	-	-	3 / 3	1 / 1	-	1 / 1	-	-	-	31 / 31	3 / 3	-	34 / 34
	1984	2 / (d)	-	-	3 / (d)	1 / 1	-	1 / (d)	-	-	-	29 / 29	3 / 3	-	32 / 32
	1985	2 / 2	-	-	3 / 3	1 / 1	-	0 / 1	-	-	-	27 / 28	3 / 3	-	30 / 31
	1986	2 / 2	-	-	3 / 3	1 / 1	-	1 / 1	-	-	-	32 / 32	3 / 3	-	35 / 35
	1987	2 / 2	-	-	3 / 3	1 / 1	-	1 / 1	-	-	-	36 / 36	3 / 3	-	39 / 39
	1988	2 / 2	-	-	2 / 2	1 / 1	2 / 2	1 / 1	-	-	-	34 / 40	3 / 3	12 / 10	49 / 53
	1989	2 / 2	-	-	2 / 4	1 / 1	2 / 2	1 / 1	-	-	-	33 / 39	3 / 3	4 / 8	40 / 50
	1990	2 / 2	-	-	4 / 4	1 / 1	2 / 2	1 / 2	-	-	-	38 / 39	3 / 3	6 / 4	47 / 46
RI	1983	-	2 / 2	-	1 / 1	1 / 1	-	1 / 1	-	-	-	11 / 11	14 / 14	-	25 / 25
	1984	-	2 / 2	-	1 / (d)	1 / 1	-	1 / (d)	-	-	-	10 / 10	14 / 14	-	24 / 24
	1985	-	2 / 2	-	1 / 1	1 / 1	-	1 / 1	-	-	-	11 / 10	14 / 14	-	25 / 24
	1986	-	2 / 2	-	1 / 1	1 / 1	-	1 / 1	-	-	-	10 / 7	14 / 14	-	24 / 21
	1987	-	2 / 2	-	1 / 1	1 / 1	-	1 / 1	-	-	-	12 / 16	14 / 10	-	26 / 26
	1988	-	2 / 2	-	1 / 1	1 / 1	-	1 / 1	-	-	-	15 / 15	10 / 10	-	25 / 25
	1989	-	2 / 2	-	1 / 1	1 / 1	-	1 / 1	-	-	-	15 / 15	10 / 10	-	25 / 25
	1990	-	2 / 2	-	1 / 1	1 / 1	-	1 / 1	-	-	-	15 / 15	10 / 10	-	25 / 25

TABLE 13. Region I Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals	
		a	b	c	a	b	c	a	b	c	a	b	c		
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubbler	SPM	SLAMS	NAMS	SPM		
VT	1983	1 / 1	-	-	2 / 2	-	-	-	-	-	-	10 / 10	2 / 2	-	12 / 12
	1984	1 / (d)	-	-	2 / (d)	-	-	-	-	-	-	10 / (d)	2 / 2	-	12 / 2
	1985	1 / 1	-	-	2 / 2	-	-	1 / 1	-	-	-	11 / 11	2 / 2	-	13 / 13
	1986	1 / 1	-	-	2 / 2	-	-	1 / 1	-	-	-	11 / 11	2 / 2	-	13 / 13
	1987	1 / 1	-	-	2 / 2	-	-	1 / 2	-	-	-	15 / 16	2 / 2	-	17 / 18
	1988	1 / 1	-	-	2 / 2	-	0 / 1	2 / 2	-	-	-	19 / 16	2 / 2	7 / 8	28 / 26
	1989	1 / 1	-	-	2 / 2	-	-	2 / 2	-	-	-	15 / 15	2 / 2	1 / 1	18 / 18
	1990	2 / 2	-	-	2 / 2	-	-	2 / 2	-	-	-	12 / 12	2 / 2	1 / 1	15 / 15
	Regional Total	1983	13 / 13	6 / 6	-	16 / 16	16 / 16	-	10 / 10	-	1 / 2	-	156 / 156	97 / 96	-
Total	1984	13 / (d)	6 / 6	-	16 / (d)	16 / 16	-	9 / (d)	-	2 / 2	-	153 / 141	100 / 100	-	253 / 251
	1985	13 / 12	6 / 6	-	16 / 13	16 / 16	-	8 / 7	-	2 / 2	-	151 / 141	99 / 100	-	250 / 241
	1986	12 / 12	6 / 6	-	14 / 14	16 / 16	-	8 / 8	-	2 / 2	-	153 / 150	95 / 97	-	248 / 247
	1987	11 / 11	6 / 6	-	14 / 14	16 / 16	-	8 / 9	-	2 / 2	-	177 / 209	99 / 72	-	276 / 281
	1988	11 / 11	6 / 6	-	15 / 15	16 / 16	11 / 9	9 / 9	-	2 / 2	1 / 2	185 / 195	70 / 72	105 / 114	360 / 381
	1989	10 / 10	6 / 6	0 / 1	15 / 17	16 / 16	10 / 10	9 / 8	-	2 / 2	2 / 4	168 / 193	78 / 79	69 / 82	335 / 353
	1990	11 / 11	6 / 6	-	17 / 23	16 / 16	12 / 13	9 / 10	-	2 / 2	4 / 3	191 / 171	77 / 77	78 / 74	344 / 322
	Grand Total	1983		19 / 19			32 / 32			11 / 12					253 / 256
(SLAMS + NAMS + SPM)	1984		19 / (d)			32 / (d)			11 / (d)					253 / 251	
	1985		19 / 19			32 / 29			10 / 9					250 / 241	
	1986		18 / 20			30 / 30			10 / 10					248 / 247	
	1987		19 / 19			30 / 30			10 / 11					276 / 281	
	1988		18 / 19			42 / 40			12 / 13					360 / 381	
	1989		18 / 19			41 / 43			13 / 15					335 / 353	
	1990		19 / 19			45 / 52			15 / 15					344 / 322	

- a. Number of SLAMS monitors excluding NAMS.
- b. Number of monitors operating/required.
- c. Number of monitors operating in current year/planned during next year.
- d. Not available.
- c. Number of monitors operating in current year/planned during next year.
- d. Not available.

TABLE 14. Region II Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO <sub>2</sub>			
		a	b	c	a	b	c	a	b	c	SLAMS		NAMS	SPM
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	continuous	bubbler		
NJ	1983	14 / 17 <sup>c</sup>	9 / 9	-	-	-	-	6 / 7 <sup>c</sup>	2 / 2	-	6 / 6 <sup>c</sup>	-	8 / 8	-
	1984	22 / (d)	9 / 9	-	-	-	-	8 / (d)	2 / 2	-	11 / (d)	-	8 / 8	-
	1985	22 / 22	9 / 9	-	-	-	-	9 / 9	2 / 2	-	11 / 11	-	8 / 8	-
	1986	20 / 15	9 / 9	-	- <sup>c</sup>	-	-	9 / 8	2 / 2	-	11 / 11	-	6 / 6	-
	1987	9 / 4	9 / 9	-	18 / 11	0 / 8	-	8 / 5	2 / 2	-	10 / 10	-	6 / 6	-
	1988	9 / 4	-	-	11 / 15	8 / 8	-	8 / 6	2 / 2	-	10 / 10	-	6 / 6	-
	1989	-	-	-	13 / 14	8 / 8	-	5 / 5	2 / 2	-	10 / 10	-	6 / 6	-
	1990	-	-	-	15 / 15	8 / 8	-	6 / 6	2 / 2	-	10 / 10	-	6 / 6	-
NY	1983	134 / 136 <sup>c</sup>	26 / 27	-	-	-	-	7 / 7 <sup>c</sup>	6 / 6	-	16 / 19 <sup>c</sup>	-	16 / 18	-
	1984	72 / (d)	25 / 25	-	-	-	-	7 / (d)	6 / 6	-	13 / (d)	-	17 / 17	-
	1985	74 / 75	25 / 25	-	-	-	-	7 / 7	6 / 6	-	13 / 14	-	17 / 17	-
	1986	73 / 67	25 / 25	-	-	-	-	7 / 7	6 / 6	-	14 / 12	-	15 / 15	-
	1987	61 / 76	24 / 3	-	14 / 19	0 / 11	-	7 / 7	5 / 6	-	10 / 11	-	15 / 15	-
	1988	60 / 81	3 / 3	1 / 1	6 / 45	8 / 11	8 / 8	7 / 7	6 / 6	1 / 0	11 / 11	-	13 / 14	1 / 1
	1989	51 / 33	-	-	29 / 49	11 / 11	1 / 1	6 / 7	7 / 7	-	11 / 11	-	13 / 14	-
	1990	38 / 38	-	-	26 / 52	11 / 11	-	10 / 10	5 / 5	-	12 / 12	-	11 / 11	-
PR	1983	7 / 8	7 / 7	-	-	-	-	2 / 2	3 / 3	-	2 / 3	-	-	-
	1984	7 / (d)	7 / 7	-	-	-	-	2 / (d)	3 / 3	-	3 / (d)	-	-	-
	1985	7 / 7	7 / 7	-	-	-	-	2 / 2	2 / 3	-	3 / 3	-	-	-
	1986	7 / 7	7 / 7	-	-	-	-	2 / 2	3 / 3	-	3 / 3	-	-	-
	1987	7 / 14	7 / 0	-	3 / 3	0 / 4	-	2 / 2	3 / 3	-	2 / 3	-	-	-
	1988	6 / 13	-	-	3 / 7	4 / 4	-	2 / 2	3 / 3	-	3 / 2	-	-	2 / 2
	1989	6 / 8	-	-	4 / 8	4 / 4	-	1 / 1	3 / 3	-	3 / 4	-	-	-
	1990	7 / 5	-	3 / 3	8 / 9	4 / 4	-	1 / 1	3 / 3	1 / 1	3 / 4	-	-	-
VI	1983	4 / 5	-	-	-	-	-	-	-	-	2 / 3	-	-	-
	1984	5 / (d)	-	-	-	-	-	-	-	-	2 / (d)	-	-	-
	1985	5 / 5	-	-	-	-	-	-	-	-	2 / 2	-	-	-
	1986	5 / 5	-	-	-	-	-	-	-	-	2 / 3	-	-	-
	1987	5 / 5	-	-	-	-	-	-	-	-	2 / 3	-	-	-
	1988	5 / 5	-	-	-	-	-	-	-	-	3 / 3	-	-	-
	1989	5 / 5	-	-	-	-	-	-	-	-	2 / 2	-	-	-
	1990	3 / 5	-	-	-	-	-	-	-	-	2 / 2	-	-	-

TABLE 14. Region II Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO <sub>2</sub>			
		a	b	c	a	b	c	a	b	c	a	b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubble	SPM	
Regional	1983	159 / 166 <sup>c</sup>	42 / 43	-	-	-	-	15 / 16 <sup>c</sup>	11 / 11	-	28 / 31 <sup>c</sup>	-	24 / 26	-
Total	1984	108 / (d)	41 / 41	-	-	-	-	17 / (d)	11 / 11	-	29 / (d)	-	25 / 25	-
	1985	108 / 109	41 / 41	-	-	-	-	18 / 18	10 / 11	-	29 / 30	-	25 / 25	-
	1986	105 / 94	41 / 41	-	-	-	-	18 / 17	11 / 11	-	30 / 29	-	21 / 21	-
	1987	82 / 99	40 / 3	-	33 / 33	8 / 23	-	17 / 14	10 / 11	-	24 / 27	-	21 / 21	-
	1988	80 / 103	3 / 3	1 / 1	20 / 67	20 / 23	5 / 6	17 / 15	11 / 11	1 / 0	27 / 26	-	19 / 20	3 / 3
	1989	64 / 46	-	-	45 / 71	23 / 23	1 / 1	12 / 13	12 / 12	-	26 / 27	-	19 / 20	-
	1990	48 / 48	-	3 / 3	49 / 76	23 / 23	-	17 / 17	10 / 10	1 / 1	27 / 28	-	17 / 17	-
Grand	1983		201 / 209						26 / 27			52 / 57		
Total	1984		147 / (d)						28 / (d)			54 / (d)		
(SLAMS +	1985		149 / 150						28 / 29			54 / 55		
NAMS +	1986		145 / 155						29 / 28			51 / 50		
SPM)	1987		122 / 102			33 / 56			27 / 25			45 / 48		
	1988		84 / 107			45 / 95			29 / 26			49 / 49		
	1989		64 / 46			70 / 95			24 / 25			45 / 47		
	1990		51 / 51			72 / 99			28 / 28			44 / 45		

- a. Number of SLAMS monitors excluding NAMS.
- b. Number of monitors operating/required.
- c. Number of monitors operating in current year/planned during next year.
- d. Not available.

TABLE 14. Region II Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals	
		a	b	c	a	b	c	a	b	c	a	b	c		
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubbler	SPM	SLAMS	NAMS	SPM		
NJ	1983	9 / 9	2 / 2	-	7 / 7	6 / 6	-	3 / 4	-	2 / 2	-	45 / 50	29 / 29	-	74 / 79
	1984	11 / (d)	2 / 2	-	7 / (d)	6 / 6	-	5 / (d)	-	2 / 2	-	64 / 72	29 / 29	-	93 / 101
	1985	12 / 12	2 / 2	-	9 / 9	6 / 6	-	6 / 6	-	2 / 2	-	69 / 69	29 / 29	-	98 / 98
	1986	12 / 12	2 / 2	-	8 / 9	6 / 6	-	6 / 6	-	2 / 2	-	66 / 61	27 / 27	-	93 / 88
	1987	11 / 11	2 / 2	-	8 / 8	6 / 6	-	6 / 6	-	2 / 2	-	68 / 55	27 / 26	-	95 / 81
	1988	11 / 11	2 / 2	-	8 / 8	6 / 6	-	6 / 6	-	2 / 2	-	63 / 60	26 / 26	-	89 / 86
	1989	11 / 12	2 / 2	-	9 / 9	6 / 6	-	6 / 6	-	2 / 2	-	54 / 58	26 / 26	-	80 / 82
	1990	12 / 14	2 / 2	-	9 / 9	6 / 6	-	6 / 6	-	2 / 2	-	58 / 60	26 / 26	-	84 / 86
NY	1983	6 / 8	7 / 7	-	11 / 12	10 / 11	-	2 / 3	-	4 / 4	-	177 / 165	69 / 73	-	246 / 258
	1984	6 / (d)	7 / 7	-	6 / (d)	11 / 11	-	1 / (d)	-	4 / 4	-	106 / 112	70 / 70	-	176 / 182
	1985	6 / 6	7 / 7	-	8 / 8	11 / 11	-	1 / 1	-	4 / 4	-	109 / 111	70 / 70	-	179 / 181
	1986	6 / 6	7 / 7	-	8 / 8	11 / 11	-	1 / 1	-	4 / 4	-	109 / 101	68 / 68	-	177 / 169
	1987	6 / 7	7 / 7	-	8 / 8	11 / 11	-	1 / 1	-	4 / 4	-	107 / 129	66 / 57	-	173 / 166
	1988	6 / 9	7 / 7	2 / 2	8 / 8	11 / 11	2 / 2	1 / 1	-	3 / 4	2 / 2	99 / 182	61 / 56	14 / 13	164 / 231
	1989	6 / 8	7 / 7	2 / 2	8 / 9	11 / 11	2 / 2	1 / 1	-	3 / 4	1 / 1	112 / 116	62 / 54	6 / 6	170 / 178
	1990	6 / 6	6 / 7	-	9 / 9	11 / 11	3 / 4	1 / 2	-	4 / 4	1 / 1	102 / 129	48 / 49	4 / 5	154 / 183
PR	1983	1 / 1	2 / 2	-	-	1 / 1	-	-	-	-	-	12 / 14	13 / 13	-	25 / 27
	1984	1 / (d)	2 / 2	-	-	1 / 1	-	-	-	-	-	13 / 13	13 / 13	-	26 / 26
	1985	1 / 1	2 / 2	-	-	0 / 1	-	-	-	-	-	13 / 13	11 / 13	-	24 / 26
	1986	0 / 1	2 / 2	-	-	1 / 2	-	-	-	-	-	12 / 13	13 / 14	-	25 / 27
	1987	0 / 1	1 / 2	-	-	1 / 1	-	-	-	0 / 2	-	14 / 23	12 / 12	-	26 / 35
	1988	0 / 1	2 / 2	-	-	1 / 1	1 / 1	-	-	0 / 2	-	14 / 25	10 / 12	3 / 3	27 / 40
	1989	0 / 1	2 / 2	-	-	1 / 1	-	-	-	0 / 2	-	16 / 22	10 / 12	-	26 / 34
	1990	0 / 1	2 / 2	-	-	1 / 1	-	-	-	0 / 2	-	19 / 20	10 / 12	4 / 4	33 / 38
VI	1983	-	-	-	-	-	-	-	-	-	-	6 / 8	-	-	6 / 8
	1984	-	-	-	-	-	-	-	-	-	-	7 / 8	-	-	7 / 8
	1985	-	-	-	-	-	-	-	-	-	-	7 / 7	-	-	7 / 7
	1986	-	-	-	-	-	-	-	-	-	-	7 / 8	-	-	7 / 8
	1987	-	-	-	-	-	-	-	-	-	-	7 / 8	-	-	7 / 8
	1988	-	-	-	-	-	-	-	-	-	-	8 / 8	-	-	8 / 8
	1989	-	-	-	-	-	-	-	-	-	-	7 / 7	-	-	7 / 7
1990	-	-	-	-	-	-	-	-	-	-	5 / 7	-	-	5 / 7	

TABLE 14. Region II Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals	
		a	b	c	a	b	c	a	b	c	a	b	c		
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SLAMS bubbler	NAMS	SPM	SLAMS	NAMS		SPM
Regional	1983	15 / 18	11 / 11	-	18 / 19	17 / 18	-	5 / 7	-	6 / 6	-	240 / 257	111 / 115	-	351 / 372
Total	1984	17 / (d)	11 / 11	-	15 / (d)	18 / 18	-	6 / (d)	-	6 / 6	-	190 / 205	112 / 112	-	302 / 317
	1985	19 / 19	11 / 11	-	17 / 17	17 / 18	-	7 / 7	-	6 / 6	-	198 / 200	110 / 112	-	308 / 312
	1986	18 / 19	11 / 11	-	16 / 17	18 / 19	-	7 / 7	-	6 / 6	-	194 / 193	108 / 109	-	302 / 292
	1987	17 / 19	10 / 11	-	16 / 16	18 / 18	-	7 / 7	-	6 / 6	-	196 / 215	105 / 95	-	301 / 310
	1988	17 / 21	11 / 11	2 / 2	16 / 16	18 / 18	3 / 3	7 / 7	-	5 / 8	2 / 2	184 / 255	87 / 94	17 / 16	288 / 385
	1989	17 / 21	11 / 11	2 / 2	17 / 18	18 / 18	2 / 2	7 / 7	-	5 / 8	1 / 1	189 / 203	88 / 92	6 / 6	283 / 301
	1990	18 / 21	10 / 11	-	18 / 18	18 / 18	3 / 4	7 / 8	-	6 / 8	1 / 1	184 / 216	84 / 87	8 / 9	276 / 312
Grand	1983		26 / 29			35 / 37				11 / 13					351 / 372
Total	1984		28 / (d)			33 / (d)				12 / (d)					302 / 317
(SLAMS +	1985		30 / 30			34 / 35				13 / 13					308 / 312
NAMS +	1986		29 / 30			34 / 36				13 / 13					302 / 292
SPM)	1987		27 / 30			34 / 34				13 / 15					301 / 310
	1988		30 / 34			37 / 37				14 / 17					288 / 385
	1989		30 / 34			37 / 38				13 / 16					283 / 301
	1990		28 / 32			39 / 40				14 / 17					276 / 312

- a. Number of SLAMS monitors excluding NAMS.
- b. Number of monitors operating/required.
- c. Number of monitors operating in current year/planned during next year.
- d. Not available.

TABLE 15. Region III Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO2				
		a	b	c	a	b	c	a	b	c	a		b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	bubbler	NAMS	SPM	
DE	1983	6 / 6	3 / 3	-	-	-	-	2 / 2	-	-	7 / 7	-	1 / 1	-	
	1984	6 / (d)	3 / 3	-	-	-	-	2 / (d)	-	-	7 / (d)	-	1 / 1	-	
	1985	6 / 6	3 / 3	-	-	-	-	2 / 2	-	-	7 / 7	-	1 / 1	-	
	1986	6 / 6	3 / 3	-	-	-	-	2 / 2	-	-	7 / 7	-	1 / 1	-	
	1987	6 / 5	3 / 0	-	2 / 1	0 / 1	-	2 / 2	-	-	7 / 7	-	1 / 1	-	
	1988	-	-	10 / 10	2 / 3	1 / 1	-	2 / 2	-	-	6 / 6	-	1 / 1	-	
	1989	-	-	10 / 10	3 / 3	1 / 1	-	2 / 2	-	-	5 / 5	-	1 / 1	-	
	1990	-	-	5 / 5	4 / 4	1 / 1	-	-	-	-	5 / 5	-	1 / 1	-	
	DC	1983	5 / 5	4 / 4	-	-	-	-	1 / 1	2 / 2	-	-	-	2 / 2	-
1984		5 / (d)	4 / 4	-	-	-	-	-	2 / 2	-	-	-	2 / 2	-	
1985		2 / 2	4 / 4	-	-	-	-	-	2 / 2	-	-	-	2 / 2	-	
1986		2 / 2	4 / 4	-	-	-	-	-	2 / 2	-	-	-	2 / 2	-	
1987		2 / 3	4 / 0	-	2 / 3	0 / 1	-	-	2 / 2	-	-	-	2 / 2	-	
1988		-	-	6 / 6	-	2 / 2	-	-	2 / 2	-	-	-	2 / 2	-	
1989		-	-	6 / 6	-	2 / 2	-	-	2 / 2	-	-	-	2 / 2	-	
1990		-	-	6 / 6	-	2 / 2	-	-	2 / 2	-	-	-	2 / 2	-	
MD		1983	27 / 27	9 / 9	-	-	-	-	4 / 4	2 / 2	-	4 / 4	-	5 / 5	-
	1984	26 / (d)	9 / 9	-	-	-	-	4 / (d)	2 / 2	-	4 / (d)	-	5 / 5	-	
	1985	19 / 19	9 / 9	-	-	-	-	4 / 4	2 / 2	-	3 / 3	-	5 / 5	-	
	1986	19 / 19	9 / 9	-	-	-	-	4 / 4	2 / 2	-	3 / 3	-	5 / 5	-	
	1987	19 / 14	9 / 0	-	5 / 2	0 / 4	-	4 / 4	2 / 2	-	2 / 2	-	3 / 3	-	
	1988	-	-	29 / 29	1 / 1	4 / 4	-	4 / 4	2 / 2	-	2 / 2	-	3 / 3	-	
	1989	-	-	35 / 35	2 / 2	4 / 4	-	4 / 4	2 / 2	-	2 / 2	-	3 / 3	-	
	1990	-	-	35 / 35	9 / 9	4 / 4	-	3 / 3	2 / 2	1 / 1	2 / 2	-	3 / 3	-	
	PA	1983	87 / 87	44 / 44	-	-	-	-	9 / 9	4 / 4	-	18 / 18	-	22 / 22	-
1984		87 / (d)	44 / 44	-	-	-	-	9 / (d)	4 / 4	-	18 / (d)	-	22 / 22	-	
1985		73 / 73	44 / 44	-	-	-	-	13 / 13	4 / 4	-	18 / 18	-	22 / 22	-	
1986		77 / 77	44 / 44	-	-	-	-	14 / 14	4 / 4	-	17 / 17	-	22 / 22	-	
1987		76 / 54	44 / 0	-	23 / 22	0 / 16	-	13 / 13	4 / 4	-	15 / 15	-	22 / 22	-	
1988		-	-	71 / 71	13 / 26	13 / 13	-	9 / 9	4 / 4	11 / 11	17 / 17	-	22 / 22	9 / 9	
1989		-	-	73 / 73	30 / 30	13 / 13	-	9 / 9	4 / 4	10 / 10	16 / 16	-	22 / 22	9 / 9	
1990		-	-	72 / 72	34 / 34	13 / 13	-	9 / 9	4 / 4	10 / 10	16 / 16	-	22 / 22	9 / 9	
VA		1983	61 / 61	17 / 17	-	-	-	-	3 / 3	2 / 2	-	7 / 7	-	7 / 7	-
	1984	63 / (d)	17 / 17	-	-	-	-	3 / (d)	2 / 2	-	7 / (d)	-	7 / 7	-	
	1985	51 / 51	17 / 17	-	-	-	-	6 / 6	2 / 2	-	6 / 6	-	7 / 7	-	
	1986	46 / 46	16 / 16	-	-	-	-	6 / 6	2 / 2	-	7 / 7	-	7 / 7	-	
	1987	47 / 30	16 / 0	-	5 / 8	0 / 6	-	5 / 5	2 / 2	-	6 / 6	-	6 / 6	-	
	1988	-	1 / 1	50 / 50	10 / 11	4 / 4	-	6 / 6	2 / 2	-	6 / 6	-	6 / 6	1 / 1	
	1989	-	-	41 / 41	25 / 25	4 / 4	-	6 / 6	2 / 2	-	6 / 6	-	6 / 6	1 / 1	
	1990	-	-	18 / 18	28 / 28	4 / 4	-	6 / 6	2 / 2	-	6 / 6	-	6 / 6	-	



TABLE 15. Region III Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO <sub>2</sub>			
		a	b	c	a	b	c	a	b	c	a	b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SLAMS bubble	NAMS	SPM
WV	1983	18 / 18 <sup>c</sup>	11 / 11	-	-	-	-	11 / 11 <sup>c</sup>	-	-	4 / 4 <sup>c</sup>	-	6 / 6	-
	1984	19 / (d)	11 / 11	-	-	-	-	10 / (d)	-	-	3 / (d)	-	6 / 6	-
	1985	20 / 20	11 / 11	-	-	-	-	12 / 12	-	-	7 / 7	-	6 / 5	-
	1986	20 / 20	11 / 11	-	-	-	-	12 / 12	-	-	7 / 7	-	5 / 5	-
	1987	19 / 15	11 / 0	-	6 / 4	0 / 2	-	12 / 12	-	-	6 / 6	-	5 / 5	-
	1988	-	-	39 / 39	3 / 3	1 / 1	-	11 / 11	-	1 / 1	6 / 6	-	5 / 5	3 / 3
	1989	-	-	25 / 25	2 / 2	2 / 2	-	11 / 11	-	1 / 1	6 / 6	-	5 / 5	13 / 13
	1990	-	-	21 / 21	2 / 2	2 / 2	-	11 / 11	-	1 / 1	6 / 6	-	5 / 5	10 / 10
	Regional Total	1983	204 / 204	88 / 88	-	-	-	-	30 / 30	10 / 10	-	40 / 40	-	43 / 43
1984	205 / (d)	88 / 88	-	-	-	-	28 / (d)	10 / 10	-	39 / (d)	-	43 / 43	-	
1985	171 / 171	88 / 88	-	-	-	-	37 / 37	10 / 10	-	39 / 39	-	42 / 42	-	
1986	170 / 170	87 / 87	-	-	-	-	38 / 38	10 / 10	-	41 / 41	-	42 / 42	-	
1987	169 / 121	87 / 0	-	43 / 40	0 / 30	-	36 / 36	10 / 10	-	36 / 36	-	39 / 39	-	
1988	-	1 / 1	205 / 205	29 / 44	25 / 25	-	32 / 32	10 / 10	12 / 12	37 / 37	-	39 / 39	13 / 13	
1989	-	-	190 / 190	62 / 62	26 / 26	-	32 / 32	10 / 10	11 / 11	35 / 35	-	39 / 39	23 / 23	
1990	-	-	157 / 157	77 / 77	26 / 26	-	29 / 29	10 / 10	12 / 12	35 / 35	-	39 / 39	19 / 19	
Grand Total	1983	-	292 / 292	-	-	-	-	40 / 40	-	-	-	83 / 83	-	
1984	-	294 / (d)	-	-	-	-	-	38 / (d)	-	-	-	82 / (d)	-	
(SLAMS + NAMS + SPM)	1985	-	259 / 259	-	-	-	-	47 / 47	-	-	-	81 / 81	-	
1986	-	257 / 257	-	-	-	-	-	46 / 46	-	-	-	83 / 83	-	
1987	-	256 / 121	-	43 / 70	-	-	-	46 / 46	-	-	-	75 / 75	-	
1988	-	206 / 206	-	54 / 69	-	-	-	54 / 54	-	-	-	89 / 89	-	
1989	-	190 / 190	-	68 / 68	-	-	-	53 / 53	-	-	-	97 / 97	-	
1990	-	157 / 157	-	103 / 103	-	-	-	51 / 51	-	-	-	93 / 93	-	

- a. Number of SLAMS monitors excluding NAMS.
- b. Number of monitors operating/required.
- c. Number of monitors operating in current year/planned during next year.
- d. Not available.

TABLE 15. Region III Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals
		a	b	c	a	b	c	a	b	c	a	b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubbler	SPM	SLAMS	NAMS	SPM	
DE	1983	3 / 3	-	-	4 / 4	1 / 1	-	2 / 2	-	-	24 / 24	5 / 5	-	29 / 29
	1984	2 / (d)	-	-	4 / (d)	1 / 1	-	2 / (d)	-	-	23 / 7	5 / 5	-	28 / 12
	1985	2 / 2	-	-	4 / 4	1 / 1	-	2 / 2	-	-	23 / 23	5 / 5	-	28 / 28
	1986	2 / 2	-	-	4 / 4	1 / 1	-	2 / 2	-	-	23 / 23	5 / 5	-	28 / 28
	1987	2 / 2	-	-	4 / 4	1 / 1	-	2 / 2	-	-	25 / 23	5 / 3	-	30 / 26
	1988	2 / 2	-	-	4 / 4	1 / 1	-	2 / 2	-	-	18 / 19	3 / 3	10 / 10	31 / 32
	1989	2 / 2	-	-	4 / 4	1 / 1	-	2 / 2	-	-	18 / 18	3 / 3	10 / 10	31 / 31
	1990	2 / 2	-	-	4 / 4	1 / 1	-	2 / 2	-	-	17 / 17	3 / 3	5 / 5	25 / 25
DC	1983	1 / 1	2 / 2	-	1 / 1	1 / 1	-	-	-	2 / 2	8 / 8	13 / 13	-	21 / 21
	1984	1 / (d)	2 / 2	-	1 / (d)	1 / 1	-	-	-	2 / 2	7 / 4	13 / 13	-	20 / 17
	1985	-	2 / 2	-	1 / 1	1 / 1	-	-	-	2 / 2	3 / 3	13 / 13	-	16 / 16
	1986	-	2 / 2	-	1 / 1	1 / 1	-	-	-	2 / 2	3 / 3	13 / 13	-	16 / 16
	1987	-	2 / 2	-	1 / 1	1 / 1	-	-	-	2 / 2	5 / 7	13 / 10	-	18 / 17
	1988	-	2 / 2	-	1 / 1	1 / 1	-	-	-	2 / 2	1 / 1	11 / 11	6 / 6	18 / 18
	1989	-	2 / 2	-	1 / 1	1 / 1	-	-	-	2 / 2	1 / 1	11 / 11	6 / 6	18 / 18
	1990	-	2 / 2	-	1 / 1	1 / 1	-	-	-	2 / 2	1 / 1	11 / 11	6 / 6	18 / 18
MD	1983	5 / 5	2 / 2	-	14 / 14	3 / 3	-	6 / 6	-	2 / 2	60 / 60	23 / 23	-	83 / 83
	1984	5 / (d)	2 / 2	-	14 / (d)	3 / 3	-	6 / (d)	-	2 / 2	59 / 36	23 / 23	-	82 / 59
	1985	4 / 4	2 / 2	-	11 / 11	3 / 3	-	1 / 1	-	2 / 2	42 / 42	23 / 23	-	65 / 65
	1986	4 / 4	2 / 2	-	11 / 11	3 / 3	-	1 / 1	-	2 / 2	42 / 42	23 / 23	-	65 / 65
	1987	5 / 5	2 / 2	-	11 / 11	3 / 3	-	1 / 1	-	2 / 2	47 / 39	21 / 16	-	68 / 55
	1988	5 / 5	2 / 2	-	10 / 11	3 / 3	3 / 3	1 / 1	-	2 / 2	23 / 24	16 / 16	32 / 32	71 / 72
	1989	5 / 5	2 / 2	-	10 / 10	3 / 3	2 / 2	1 / 1	-	2 / 2	24 / 24	16 / 16	37 / 37	77 / 77
	1990	5 / 5	2 / 2	-	10 / 10	3 / 3	2 / 2	-	-	2 / 2	29 / 29	16 / 16	38 / 38	83 / 83
PA	1983	22 / 22	4 / 4	-	22 / 22	11 / 11	-	10 / 10	-	4 / 4	177 / 177	89 / 89	-	266 / 266
	1984	21 / (d)	4 / 4	-	22 / (d)	11 / 11	-	10 / (d)	-	4 / 4	176 / 104	89 / 89	-	265 / 185
	1985	23 / 23	4 / 4	-	24 / 24	11 / 11	-	16 / 16	-	4 / 4	165 / 165	89 / 89	-	254 / 254
	1986	23 / 23	4 / 4	-	24 / 24	11 / 11	-	12 / 12	-	4 / 4	167 / 167	89 / 89	-	256 / 256
	1987	23 / 23	4 / 4	-	24 / 24	11 / 11	-	16 / 16	-	4 / 4	160 / 167	89 / 61	-	279 / 228
	1988	19 / 19	4 / 4	2 / 2	24 / 24	11 / 11	2 / 2	14 / 14	-	4 / 4	96 / 109	58 / 58	99 / 99	253 / 266
	1989	19 / 19	4 / 4	2 / 2	24 / 24	11 / 11	2 / 2	16 / 16	-	4 / 4	114 / 114	58 / 58	101 / 101	273 / 273
	1990	20 / 20	4 / 4	1 / 1	24 / 24	11 / 11	2 / 2	17 / 17	-	4 / 4	120 / 120	58 / 58	98 / 98	276 / 276
VA	1983	10 / 10	2 / 2	-	10 / 10	5 / 5	-	10 / 10	8 / 8	-	109 / 109	33 / 33	-	142 / 142
	1984	10 / (d)	2 / 2	-	10 / (d)	5 / 5	-	9 / (d)	-	-	102 / 48	33 / 33	-	135 / 81
	1985	10 / 10	2 / 2	-	10 / 10	5 / 5	-	9 / 9	-	-	92 / 92	33 / 33	-	125 / 125
	1986	10 / 10	2 / 2	-	12 / 12	5 / 5	-	9 / 9	-	-	90 / 90	32 / 32	-	122 / 122
	1987	10 / 10	2 / 2	-	13 / 13	5 / 5	-	9 / 9	-	-	95 / 81	31 / 21	-	128 / 102
	1988	10 / 10	2 / 2	-	14 / 14	5 / 5	-	9 / 9	-	1 / 1	65 / 56	20 / 20	52 / 52	127 / 128
	1989	10 / 10	2 / 2	-	14 / 14	5 / 5	-	9 / 9	-	1 / 1	70 / 70	19 / 19	43 / 43	132 / 132
	1990	10 / 10	2 / 2	-	15 / 15	5 / 5	-	9 / 9	-	1 / 1	74 / 74	19 / 19	19 / 19	112 / 112

TABLE 15. Region III Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals
		a	b	c	a	b	c	a	b	c	a	b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubbler	SPM	SLAMS	NAMS	SPM	
WV	1983	3 / 3 <sup>c</sup>	-	-	4 / 4 <sup>c</sup>	-	-	4 / 4 <sup>c</sup>	-	-	44 / 44	17 / 17	-	61 / 61
	1984	3 / (d)	-	-	4 / (d)	-	-	4 / (d)	-	-	43 / 37	17 / 17	-	60 / 54
	1985	4 / 4	-	-	5 / 5	-	-	5 / 5	-	-	53 / 53	16 / 16	-	69 / 69
	1986	4 / 4	-	-	5 / 5	-	-	5 / 5	-	-	53 / 53	16 / 16	-	69 / 69
	1987	3 / 3	-	-	4 / 4	-	-	4 / 4	-	-	54 / 48	16 / 7	-	70 / 55
	1988	3 / 3	-	1 / 1	5 / 5	-	1 / 1	4 / 4	-	1 / 1	32 / 32	6 / 6	46 / 46	84 / 84
	1989	3 / 3	-	1 / 1	5 / 5	-	1 / 1	4 / 4	-	1 / 1	31 / 31	7 / 7	42 / 42	80 / 80
	1990	3 / 3	-	1 / 1	5 / 5	-	1 / 1	4 / 4	-	1 / 1	31 / 31	7 / 7	35 / 35	73 / 73
	Regional Total	1983	44 / 44	10 / 10	-	55 / 55	21 / 21	-	41 / 41	8 / 8	6 / 6	422 / 422	180 / 180	-
Total	1984	42 / (d)	10 / 10	-	55 / (d)	21 / 21	-	40 / (d)	-	8 / 8	410 / 236	180 / 180	-	590 / 416
	1985	43 / 43	10 / 10	-	55 / 55	21 / 21	-	33 / 33	-	8 / 8	378 / 378	179 / 179	-	557 / 557
	1986	43 / 43	10 / 10	-	57 / 57	21 / 21	-	29 / 29	-	6 / 6	378 / 378	178 / 178	-	556 / 556
	1987	43 / 43	10 / 10	-	57 / 57	21 / 21	-	32 / 32	-	8 / 8	416 / 385	175 / 118	-	591 / 483
	1988	39 / 39	10 / 10	3 / 3	58 / 59	21 / 21	6 / 6	30 / 30	-	8 / 8	225 / 241	114 / 114	245 / 245	584 / 600
	1989	39 / 39	10 / 10	3 / 3	58 / 58	21 / 21	5 / 5	32 / 32	-	8 / 8	256 / 256	114 / 114	239 / 239	611 / 611
	1990	40 / 40	10 / 10	2 / 2	59 / 59	21 / 21	5 / 5	32 / 32	-	8 / 8	272 / 272	114 / 114	201 / 201	587 / 587
	Grand Total	1983		54 / 54			76 / 76			57 / 57		602 / 602		
(SLAMS + NAMS + SPM)	1984		52 / (d)			76 / (d)			48 / (d)		590 / 416			
	1985		53 / 53			76 / 76			41 / 41		557 / 557			
	1986		53 / 53			76 / 76			37 / 37		556 / 556			
	1987		53 / 53			76 / 76			40 / 40		591 / 483			
	1988		52 / 52			85 / 88			44 / 44		584 / 600			
	1989		52 / 52			84 / 84			47 / 47		611 / 611			
	1990		52 / 52			85 / 85			46 / 46		587 / 587			

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in current year/planned during next year.

d. Not available.

TABLE 16. Region IV Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO <sub>2</sub>			
		a			b			c			a		b	c
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SLAMS bubbler	NAMS	SPM
AL	1983	53 / 53	17 / 17	-	-	-	-	3 / 3	2 / 2	-	3 / 3	-	1 / 1	-
	1984	52 / (d)	16 / 16	-	-	-	-	3 / (d)	2 / 2	-	4 / (d)	-	1 / 1	-
	1985	52 / 52	16 / 16	-	-	-	-	3 / 3	2 / 2	-	2 / 2	-	1 / 1	-
	1986	53 / 47	14 / 14	-	-	c	-	3 / 3	2 / 2	-	2 / 2	-	-	-
	1987	37 / 39	11 / 0	-	7 / 4	0 / 3	-	3 / 3	2 / 2	-	2 / 2	-	-	-
	1988	35 / 35	-	4 / 4	11 / 11	2 / 2	2 / 2	4 / 4	0 / 2	4 / 4	1 / 1	-	-	2 / 2
	1989	45 / 35	-	4 / 4	30 / 31	2 / 2	2 / 2	4 / 4	2 / 2	3 / 3	1 / 2	-	0 / 1	3 / 3
	1990	45 / 35	-	4 / 4	28 / 31	2 / 2	2 / 2	4 / 4	2 / 2	4 / 4	1 / 1	-	1 / 1	-
FL	1983	93 / 93	15 / 15	-	-	-	-	-	6 / 6	-	17 / 17	6 / 6	5 / 5	-
	1984	89 / (d)	15 / 15	-	-	-	-	-	6 / 6	-	25 / (d)	3 / (d)	5 / 5	-
	1985	87 / 87	15 / 15	-	-	-	-	-	5 / 6	-	17 / 18	-	5 / 5	-
	1986	89 / 89	15 / 15	-	-	-	-	1 / 1	6 / 6	-	20 / 20	-	5 / 2	-
	1987	82 / 91	14 / 0	-	5 / 0	0 / 10	-	-	6 / 5	-	19 / 19	-	5 / 5	-
	1988	95 / 95	-	17 / 17	4 / 4	6 / 6	1 / 1	-	9 / 12	7 / 7	20 / 20	9 / 9	6 / 6	3 / 3
	1989	88 / 88	-	17 / 17	10 / 13	6 / 6	1 / 2	-	11 / 12	7 / 7	20 / 20	2 / 2	6 / 6	3 / 3
	1990	86 / 86	-	17 / 17	12 / 17	8 / 8	4 / 5	-	11 / 12	9 / 9	16 / 16	2 / 2	6 / 6	3 / 3
GA	1983	39 / 39	11 / 11	-	-	-	-	-	1 / 2	-	10 / 10	-	1 / 1	-
	1984	40 / (d)	11 / 11	-	-	-	-	-	1 / 2	-	10 / (d)	-	1 / 1	-
	1985	39 / 39	11 / 11	-	-	-	-	-	1 / 2	-	10 / 10	-	1 / 1	-
	1986	40 / 40	11 / 11	-	-	-	-	-	3 / 3	-	10 / 10	-	1 / 2	-
	1987	38 / 49	11 / 0	-	3 / 0	0 / 2	-	-	2 / 2	-	10 / 10	-	2 / 2	-
	1988	47 / 47	-	6 / 6	-	2 / 2	1 / 1	-	2 / 2	10 / 10	9 / 9	-	2 / 2	2 / 2
	1989	43 / 43	-	-	-	2 / 2	1 / 1	-	2 / 2	10 / 10	6 / 6	-	2 / 2	1 / 1
	1990	43 / 43	-	-	-	2 / 2	1 / 1	-	2 / 2	10 / 10	4 / 6	-	2 / 2	1 / 1
KY	1983	49 / 49	13 / 13	-	-	-	-	5 / 5	2 / 2	-	8 / 8	-	4 / 4	-
	1984	50 / (d)	12 / 12	-	-	-	-	4 / (d)	2 / 2	-	8 / (d)	-	4 / 4	-
	1985	49 / 49	12 / 12	-	-	-	-	5 / 5	2 / 2	-	8 / 8	-	4 / 4	-
	1986	51 / 51	12 / 12	-	-	-	-	5 / 5	2 / 2	-	8 / 8	-	4 / 0	-
	1987	46 / 41	12 / 0	-	9 / 7	0 / 3	-	5 / 5	1 / 1	-	8 / 8	-	2 / 2	-
	1988	31 / 31	-	11 / 11	16 / 16	3 / 3	-	7 / 7	2 / 2	-	11 / 11	-	2 / 2	-
	1989	19 / 19	-	5 / 5	12 / 12	4 / 4	1 / 1	6 / 6	2 / 2	-	11 / 11	-	2 / 2	-
	1990	19 / 19	-	5 / 5	19 / 12	4 / 6	1 / 1	5 / 6	2 / 2	1 / 1	9 / 11	-	2 / 2	1 / 1
MS	1983	19 / 19	4 / 4	-	-	-	-	4 / 4	-	-	2 / 2	-	1 / 1	-
	1984	19 / (d)	4 / 4	-	-	-	-	5 / (d)	-	-	1 / (d)	-	1 / 1	-
	1985	19 / 19	4 / 4	-	-	-	-	5 / 5	-	-	1 / 1	-	1 / 1	-
	1986	19 / 19	1 / 1	-	-	-	-	5 / 5	-	-	1 / 1	-	1 / 0	-
	1987	17 / 17	1 / 0	-	1 / 0	0 / 1	-	4 / 4	-	-	1 / 1	-	1 / 1	-
	1988	16 / 16	-	3 / 3	-	-	1 / 1	4 / 4	-	-	1 / 1	-	1 / 1	1 / 1
	1989	16 / 16	-	3 / 3	-	1 / 1	1 / 1	4 / 4	-	-	1 / 1	-	-	1 / 1
	1990	16 / 16	-	3 / 3	-	1 / 1	1 / 1	4 / 4	-	-	2 / 2	-	-	1 / 1

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TABLE 16. Region IV Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

(continued)

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO2				
		a	b	c	a	b	c	a	b	c	a		b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SO2 bubbler	NAMS	SPM	
NC	1983	74 / 74	9 / 9	-	-	-	-	-	-	-	5 / 5	-	1 / 1	-	
	1984	77 / (d)	9 / 9	-	-	-	-	-	-	-	8 / (d)	-	1 / 1	-	
	1985	76 / 76	9 / 9	-	-	-	-	-	-	-	4 / 4	-	1 / 1	-	
	1986	79 / 79	9 / 9	-	-	-	-	-	-	-	4 / 4	-	-	-	
	1987	63 / 61	7 / 0	-	6 / 4	0 / 3	-	-	-	-	6 / 6	-	-	-	
	1988	64 / 64	-	2 / 2	8 / 8	3 / 3	3 / 3	-	-	-	5 / 5	-	-	-	
	1989	60 / 60	-	2 / 2	6 / 6	3 / 3	3 / 3	-	-	-	5 / 5	-	-	-	
	1990	60 / 60	-	2 / 2	16 / 16	3 / 3	3 / 3	-	-	-	5 / 5	-	-	5 / 5	
	SC	1983	10 / 10	7 / 8	-	-	-	-	-	-	-	4 / 4	-	1 / 1	-
		1984	10 / (d)	8 / 8	-	-	-	-	-	-	3 / (d)	-	1 / 1	-	
1985		10 / 10	8 / 8	-	-	-	-	-	-	3 / 3	-	1 / 1	-		
1986		12 / 12	8 / 6	-	-	-	-	-	-	3 / 3	-	1 / 1	-		
1987		7 / 15	8 / 0	-	6 / 13	0 / 3	-	-	-	-	3 / 3	-	1 / 1	-	
1988		9 / 9	-	25 / 25	5 / 5	3 / 3	1 / 1	-	-	-	2 / 2	-	1 / 1	5 / 5	
1989		18 / 18	-	22 / 16	9 / 11	2 / 3	-	-	-	12 / 12	3 / 4	-	1 / 1	5 / 5	
1990		18 / 18	-	22 / 16	7 / 10	3 / 3	3 / 3	-	-	12 / 12	4 / 4	-	1 / 1	5 / 5	
TN		1983	48 / 48	21 / 21	-	-	-	-	1 / 1	2 / 2	-	3 / 3	-	1 / 1	-
		1984	45 / (d)	21 / 21	-	-	-	-	1 / (d)	2 / 2	-	3 / (d)	-	1 / 1	-
	1985	45 / 45	21 / 21	-	-	-	-	1 / 1	2 / 2	-	3 / 3	-	1 / 1	-	
	1986	45 / 45	21 / 21	-	-	-	-	2 / 2	2 / 2	-	3 / 3	-	1 / 0	-	
	1987	42 / 52	21 / 0	-	11 / 8	0 / 5	-	1 / 1	2 / 2	-	3 / 3	-	1 / 1	-	
	1988	33 / 33	-	8 / 8	9 / 9	3 / 3	-	1 / 1	2 / 4	3 / 3	2 / 2	-	1 / 1	5 / 5	
	1989	33 / 33	-	8 / 8	5 / 5	3 / 3	-	3 / 3	1 / 4	3 / 3	3 / 3	-	1 / 2	5 / 5	
	1990	33 / 33	-	8 / 8	12 / 12	3 / 3	3 / 3	4 / 4	3 / 4	7 / 7	3 / 4	-	1 / 2	5 / 5	
	Regional Total	1983	385 / 385	97 / 98	-	-	-	-	13 / 13	13 / 14	-	52 / 52	6 / 6	15 / 15	-
		1984	382 / (d)	96 / 96	-	-	-	-	13 / (d)	13 / 14	-	62 / (d)	3 / (d)	15 / 15	-
1985		377 / 377	96 / 96	-	-	-	-	14 / 14	12 / 14	-	48 / 48	-	15 / 15	-	
1986		388 / 382	91 / 91	-	-	-	-	16 / 16	15 / 15	-	51 / 51	-	13 / 5	-	
1987		332 / 365	85 / 0	-	48 / 34	0 / 30	-	13 / 13	13 / 13	-	52 / 52	-	12 / 12	-	
1988		330 / 330	-	76 / 76	53 / 53	24 / 24	9 / 9	16 / 16	15 / 22	24 / 24	51 / 51	9 / 9	13 / 13	18 / 18	
1989		320 / 310	-	61 / 55	72 / 78	25 / 26	9 / 10	17 / 17	18 / 22	35 / 35	50 / 52	2 / 2	12 / 14	18 / 18	
1990		320 / 310	-	61 / 55	94 / 98	26 / 28	18 / 19	17 / 18	20 / 22	43 / 43	44 / 48	2 / 2	13 / 14	21 / 21	
Grand Total		1983	-	482 / 483	-	-	-	-	26 / 27	-	-	73 / 73	-	-	-
	1984	-	478 / (d)	-	-	-	-	26 / (d)	-	-	80 / (d)	-	-	-	
	1985	-	473 / 473	-	-	-	-	26 / 28	-	-	63 / 64	-	-	-	
	1986	-	479 / 473	-	-	-	-	31 / 31	-	-	64 / 56	-	-	-	
	1987	-	417 / 365	-	48 / 64	-	-	26 / 26	-	-	64 / 64	-	-	-	
	1988	-	406 / 406	-	86 / 86	-	-	55 / 62	-	-	91 / 91	-	-	-	
	1989	-	381 / 365	-	106 / 114	-	-	70 / 74	-	-	82 / 86	-	-	-	
	1990	-	381 / 365	-	138 / 145	-	-	80 / 83	-	-	80 / 86	-	-	-	

TABLE 16. Region IV Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec-31	CO			O3			NO2			Subtotal			Totals
		a	b	c	a	b	c	a	b	c	a	b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubbler	SPM	SLAMS	NAMS	SPM	
AL	1983	3 / 3	2 / 2	-	4 / 4	4 / 4	-	1 / 1	-	-	67 / 67	26 / 26	-	93 / 93
	1984	2 / (d)	2 / 2	-	3 / (d)	4 / 4	-	-	-	-	64 / 64	25 / 25	-	89 / 89
	1985	2 / 3	2 / 2	-	2 / 2	4 / 4	-	-	-	-	61 / 62	25 / 25	-	86 / 87
	1986	2 / 2	2 / 2	-	2 / 3	4 / 4	-	-	-	-	62 / 57	22 / 22	-	84 / 70
	1987	2 / 2	2 / 2	-	1 / 1	4 / 4	-	-	-	-	52 / 51	19 / 11	-	71 / 62
	1988	4 / 4	1 / 2	-	8 / 8	4 / 4	-	-	-	-	63 / 63	7 / 10	12 / 12	82 / 85
	1989	4 / 4	2 / 2	-	6 / 7	4 / 4	1 / 1	-	-	1 / 1	90 / 83	10 / 11	14 / 14	114 / 108
	1990	4 / 4	2 / 2	-	5 / 7	4 / 4	1 / 1	-	-	2 / 2	87 / 82	11 / 11	13 / 13	111 / 106
	FL	1983	19 / 19	10 / 10	-	7 / 7	13 / 13	-	10 / 10	3 / 3	2 / 2	155 / 155	51 / 51	-
1984		19 / (d)	9 / 10	-	5 / (d)	13 / 13	-	8 / (d)	3 / (d)	2 / 2	152 / 152	50 / 51	-	202 / 203
1985		17 / 17	9 / 10	-	6 / 6	13 / 13	-	4 / 4	-	2 / 2	131 / 132	49 / 51	-	180 / 183
1986		17 / 17	10 / 10	-	6 / 6	13 / 13	-	4 / 4	-	2 / 2	137 / 137	51 / 48	-	188 / 185
1987		14 / 14	9 / 9	-	8 / 8	16 / 16	-	4 / 4	-	2 / 2	132 / 136	52 / 50	-	184 / 186
1988		12 / 12	11 / 12	-	8 / 8	16 / 19	2 / 2	4 / 4	-	2 / 2	152 / 152	52 / 59	32 / 32	236 / 243
1989		12 / 12	12 / 12	-	8 / 8	19 / 19	2 / 2	6 / 4	-	2 / 4	142 / 145	58 / 61	32 / 33	232 / 239
1990		12 / 13	12 / 12	-	10 / 10	19 / 19	2 / 2	4 / 4	-	2 / 4	142 / 148	58 / 61	37 / 38	237 / 247
GA		1983	4 / 4	2 / 2	-	-	4 / 4	-	-	-	2 / 2	53 / 53	21 / 22	-
	1984	1 / (d)	2 / 2	-	-	3 / 4	-	-	-	1 / 2	51 / 53	19 / 22	-	70 / 75
	1985	2 / 3	2 / 2	-	-	4 / 4	-	-	-	2 / 2	51 / 52	21 / 22	-	72 / 74
	1986	5 / 5	2 / 2	-	0 / 3	4 / 4	-	-	-	2 / 2	55 / 58	23 / 24	-	78 / 82
	1987	2 / 2	2 / 2	-	2 / 2	4 / 5	-	-	-	2 / 2	55 / 63	23 / 15	-	78 / 78
	1988	2 / 2	2 / 2	-	2 / 2	4 / 5	5 / 5	-	-	2 / 2	60 / 60	14 / 15	24 / 24	98 / 99
	1989	1 / 1	2 / 2	-	2 / 2	5 / 5	4 / 4	-	-	2 / 2	52 / 52	15 / 15	16 / 16	83 / 83
	1990	1 / 1	2 / 2	-	2 / 2	5 / 5	4 / 4	-	-	2 / 2	50 / 52	15 / 15	16 / 16	81 / 83
	KY	1983	6 / 6	2 / 2	-	13 / 13	1 / 1	-	7 / 7	-	-	90 / 90	22 / 22	-
1984		7 / (d)	2 / 2	-	13 / (d)	1 / 1	-	7 / (d)	-	-	89 / 89	21 / 21	-	110 / 110
1985		6 / 6	0 / 2	-	13 / 13	1 / 1	-	7 / 7	-	-	88 / 88	19 / 21	-	107 / 109
1986		7 / 7	2 / 2	-	15 / 15	1 / 1	-	7 / 7	-	-	93 / 93	21 / 17	-	114 / 110
1987		8 / 8	2 / 2	-	13 / 13	1 / 1	-	7 / 7	-	-	96 / 89	18 / 9	-	114 / 88
1988		9 / 9	2 / 2	-	14 / 14	1 / 1	-	7 / 7	-	1 / 1	95 / 95	10 / 10	12 / 12	117 / 117
1989		7 / 7	2 / 2	1 / 1	13 / 13	1 / 1	1 / 1	7 / 7	-	1 / 1	75 / 75	11 / 11	9 / 9	95 / 95
1990		7 / 7	2 / 2	1 / 1	13 / 13	1 / 1	1 / 1	7 / 7	-	1 / 1	79 / 75	11 / 13	11 / 11	101 / 99
MS		1983	1 / 1	-	-	2 / 2	-	-	-	-	-	28 / 28	5 / 6	-
	1984	1 / (d)	-	-	2 / (d)	-	-	-	-	-	28 / 28	5 / 6	-	33 / 33
	1985	1 / 1	-	-	2 / 2	-	-	-	-	-	28 / 28	5 / 5	-	33 / 33
	1986	1 / 1	-	-	2 / 2	-	-	-	-	-	28 / 28	2 / 1	-	30 / 29
	1987	1 / 1	-	-	2 / 2	-	-	-	-	-	26 / 25	2 / 2	-	28 / 27
	1988	1 / 1	-	-	2 / 2	2 / 2	6 / 6	-	-	-	24 / 24	3 / 3	11 / 11	38 / 38
	1989	1 / 1	-	-	2 / 2	2 / 2	6 / 6	-	-	-	24 / 24	3 / 3	11 / 11	38 / 38
	1990	1 / 1	-	-	2 / 2	2 / 2	6 / 6	-	-	-	25 / 25	3 / 3	11 / 11	39 / 39

TABLE 16. Region IV Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals
		a	b	c	a	b	c	a	b	c	a	b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	continuous	bubbler		SLAMS	NAMS	SPM	
NC	1983	7 / 9	2 / 2	-	9 / 9	2 / 2	-	1 / 1	-	-	98 / 98	14 / 14	-	110 / 112
	1984	8 / (d)	2 / 2	-	6 / (d)	2 / 2	-	-	-	-	99 / 99	14 / 14	-	113 / 113
	1985	9 / 9	2 / 2	-	11 / 11	2 / 2	-	1 / 1	-	-	101 / 101	14 / 14	-	115 / 115
	1986	9 / 9	2 / 2	-	8 / 8	2 / 2	-	-	-	-	99 / 99	13 / 13	-	112 / 112
	1987	8 / 8	2 / 2	-	11 / 11	2 / 2	-	2 / 2	-	-	98 / 92	11 / 7	-	107 / 99
	1988	7 / 7	2 / 2	-	10 / 10	4 / 6	-	2 / 2	-	-	98 / 98	9 / 11	5 / 5	110 / 112
	1989	8 / 10	2 / 2	2 / 1	8 / 8	5 / 6	-	2 / 2	-	-	89 / 91	10 / 11	7 / 6	106 / 108
1990	11 / 12	2 / 2	2 / 1	8 / 8	6 / 6	-	2 / 2	-	2 / 2	102 / 103	11 / 11	14 / 13	127 / 127	
SC	1983	2 / 2	-	-	3 / 3	4 / 4	-	-	-	-	19 / 19	12 / 13	-	31 / 32
	1984	2 / (d)	-	-	3 / (d)	4 / 4	-	-	-	-	18 / 18	13 / 13	-	31 / 31
	1985	2 / 2	-	-	3 / 3	4 / 4	-	-	-	-	18 / 18	13 / 13	-	31 / 31
	1986	2 / 2	-	-	3 / 3	4 / 4	-	-	-	-	20 / 20	13 / 13	-	33 / 33
	1987	2 / 2	-	-	3 / 3	4 / 4	-	-	-	-	21 / 36	13 / 8	-	34 / 44
	1988	2 / 2	-	-	2 / 2	4 / 5	7 / 7	-	-	3 / 3	20 / 20	8 / 9	41 / 41	69 / 70
	1989	2 / 2	-	-	6 / 6	5 / 7	7 / 8	0 / 4	-	3 / 2	38 / 45	8 / 11	49 / 43	95 / 99
1990	2 / 2	-	-	9 / 9	6 / 7	7 / 8	0 / 4	-	3 / 2	40 / 47	10 / 11	52 / 46	102 / 104	
TN	1983	6 / 8	4 / 4	-	4 / 4	6 / 6	-	0 / 1	-	-	64 / 65	34 / 34	-	98 / 99
	1984	7 / (d)	4 / 4	-	5 / (d)	6 / 6	-	1 / (d)	-	-	62 / 62	34 / 34	-	96 / 96
	1985	6 / 7	4 / 4	-	4 / 4	6 / 6	-	1 / 1	-	-	60 / 61	34 / 34	-	94 / 95
	1986	7 / 7	4 / 4	-	4 / 4	6 / 6	-	1 / 1	-	-	62 / 62	34 / 33	-	96 / 95
	1987	7 / 7	4 / 4	-	4 / 4	6 / 6	-	1 / 1	-	-	69 / 74	34 / 18	-	103 / 92
	1988	5 / 5	4 / 4	-	2 / 2	8 / 8	5 / 5	1 / 1	-	-	53 / 53	18 / 20	21 / 21	92 / 94
	1989	5 / 5	4 / 4	-	4 / 4	8 / 8	5 / 5	1 / 1	-	-	54 / 54	17 / 21	21 / 21	92 / 98
1990	5 / 5	4 / 4	-	2 / 4	8 / 8	5 / 5	1 / 1	-	-	60 / 63	19 / 21	28 / 28	107 / 112	
Regional Total	1983	52 / 54	22 / 22	-	42 / 42	34 / 34	-	19 / 20	3 / 3	4 / 4	572 / 575	185 / 187	-	757 / 762
	1984	47 / (d)	21 / 22	-	37 / (d)	33 / 34	-	16 / (d)	3 / (d)	3 / 4	563 / 565	181 / 185	-	744 / 750
	1985	45 / 48	19 / 22	-	41 / 41	34 / 34	-	13 / 13	-	4 / 4	538 / 542	180 / 185	-	718 / 727
	1986	49 / 49	22 / 22	-	40 / 44	34 / 34	-	12 / 12	-	4 / 4	556 / 554	179 / 171	-	735 / 725
	1987	44 / 44	21 / 21	-	44 / 44	37 / 40	-	14 / 14	-	4 / 4	547 / 566	172 / 120	-	719 / 686
	1988	42 / 42	22 / 24	-	48 / 48	43 / 50	25 / 25	14 / 14	-	4 / 4	563 / 563	121 / 137	158 / 158	842 / 858
	1989	40 / 42	24 / 24	3 / 2	49 / 50	49 / 52	26 / 27	14 / 18	-	4 / 6	564 / 569	132 / 144	159 / 153	855 / 866
1990	43 / 45	24 / 24	3 / 2	51 / 55	51 / 52	26 / 27	14 / 18	-	4 / 6	585 / 595	138 / 146	182 / 178	905 / 917	
Grand Total (SLAMS + NAMS + SPM)	1983	74 / 78			76 / 78			28 / 27			757 / 762			
	1984	68 / (d)			70 / (d)			22 / (d)			744 / 750			
	1985	64 / 70			75 / 75			17 / 17			718 / 727			
	1986	71 / 71			74 / 78			18 / 16			735 / 725			
	1987	65 / 65			81 / 84			18 / 18			719 / 686			
	1988	64 / 68			116 / 123			24 / 24			842 / 858			
	1989	67 / 68			124 / 129			25 / 30			855 / 866			
1990	70 / 71			128 / 134			28 / 33			905 / 917				

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in current year/planned during next year.

d. Not available.

TABLE 17. Region V Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO2			
		a		b	c	a		b	c	a		b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	continuous	bubbler	SPM	
IL	1983	70 / 71	26 / 26	-	-	-	-	10 / 10	2 / 2	-	15 / 15	-	15 / 15	-
	1984	73 / (d)	26 / 26	-	-	-	-	10 / (d)	2 / 2	-	15 / (d)	-	15 / 15	-
	1985	73 / 71	26 / 26	-	-	-	-	11 / 19	1 / 2	-	16 / 16	-	15 / 15	-
	1986	65 / 56	26 / 26	-	-	-	-	18 / 17	2 / 2	-	16 / 13	-	13 / 13	-
	1987	57 / 59	24 / 0	-	23 / 10	0 / 13	-	17 / 17	2 / 2	-	13 / 13	-	12 / 12	-
	1988	-	-	63 / 21	6 / 23	15 / 15	-	17 / 15	2 / 2	14 / 0	15 / 15	-	12 / 12	-
	1989	-	-	21 / 21	20 / 24	15 / 15	-	15 / 15	2 / 2	1 / 1	14 / 14	-	12 / 12	-
	1990	-	-	21 / 23	24 / 24	15 / 15	-	15 / 15	2 / 2	1 / 2	14 / 15	-	12 / 12	-
IN	1983	62 / 64	20 / 20	-	-	-	-	10 / 10	4 / 4	-	11 / 12	-	6 / 6	-
	1984	67 / (d)	20 / 20	-	-	-	-	10 / (d)	4 / 4	-	11 / (d)	-	6 / 6	-
	1985	96 / 98	20 / 20	-	-	-	-	22 / 22	4 / 4	-	15 / 16	-	6 / 6	-
	1986	85 / 85	20 / 20	-	-	-	-	10 / 10	4 / 4	-	10 / 10	-	6 / 6	-
	1987	65 / 94	20 / 0	-	22 / 26	0 / 4	-	10 / 12	4 / 3	-	10 / 10	-	6 / 6	-
	1988	1 / 0	-	12 / 10	53 / 61	5 / 5	4 / 4	4 / 4	2 / 2	4 / 4	10 / 10	-	6 / 6	4 / 4
	1989	-	-	11 / 11	56 / 57	5 / 5	5 / 5	4 / 4	2 / 2	3 / 4	10 / 10	-	6 / 6	4 / 4
	1990	-	-	11 / 9	57 / 54	5 / 5	5 / 7	4 / 4	2 / 2	4 / 8	10 / 9	-	6 / 6	4 / 3
MI	1983	53 / 101	21 / 21	-	-	-	-	15 / 15	2 / 2	-	6 / 7	-	11 / 11	-
	1984	53 / (d)	21 / 21	-	-	-	-	15 / (d)	2 / 2	-	6 / (d)	-	11 / 11	-
	1985	51 / 51	21 / 21	-	-	-	-	15 / 15	2 / 2	-	6 / 6	-	11 / 11	-
	1986	51 / 35	21 / 15	-	-	-	-	15 / 15	2 / 2	-	6 / 5	-	11 / 9	-
	1987	23 / 42	11 / 0	-	12 / 5	0 / 7	-	11 / 11	2 / 2	-	4 / 4	-	5 / 5	-
	1988	17 / 8	-	6 / 6	2 / 2	9 / 9	3 / 4	12 / 12	1 / 1	0 / 1	6 / 6	-	3 / 3	6 / 5
	1989	15 / 15	-	5 / 5	4 / 4	6 / 6	7 / 7	11 / 11	1 / 2	3 / 3	6 / 6	-	3 / 3	6 / 6
	1990	14 / 11	-	5 / 5	4 / 4	6 / 6	7 / 7	11 / 11	2 / 2	5 / 5	6 / 6	-	2 / 3	6 / 6
MN	1983	27 / 27	11 / 11	-	-	-	-	7 / 7	2 / 2	-	3 / 3	-	4 / 4	-
	1984	32 / (d)	11 / 11	-	-	-	-	7 / (d)	2 / 2	-	4 / (d)	-	4 / 4	-
	1985	32 / 26	11 / 11	-	-	-	-	2 / 2	2 / 2	-	3 / 3	-	5 / 6	-
	1986	25 / 27	11 / 9	-	-	-	-	3 / 3	2 / 2	-	2 / 5	-	6 / 4	-
	1987	26 / 33	7 / 0	-	13 / 15	0 / 8	-	3 / 3	2 / 2	-	4 / 3	-	4 / 4	-
	1988	12 / 12	-	-	6 / 8	7 / 7	-	3 / 3	2 / 2	-	3 / 3	-	4 / 4	-
	1989	12 / 12	1 / 1	-	9 / 9	7 / 7	0 / 5	3 / 3	2 / 2	-	3 / 3	-	4 / 4	0 / 5
	1990	12 / 0	-	0 / 6	9 / 7	8 / 8	5 / 5	3 / 3	2 / 2	-	3 / 3	-	4 / 4	5 / 5
OH	1983	190 / 190	50 / 50	-	-	-	-	-	9 / 10	-	21 / 21	-	25 / 25	-
	1984	186 / (d)	50 / 50	-	-	-	-	-	9 / 10	-	21 / (d)	-	25 / 25	-
	1985	179 / 178	50 / 50	-	-	-	-	1 / 2	10 / 10	-	19 / 19	-	25 / 25	-
	1986	179 / 128	44 / 44	-	-	-	-	-	10 / 10	-	19 / 18	-	25 / 23	-
	1987	104 / 172	40 / 0	-	28 / 25	0 / 14	-	-	10 / 10	-	18 / 19	-	19 / 18	-
	1988	-	-	39 / 25	34 / 39	18 / 18	-	-	10 / 10	16 / 10	19 / 19	-	18 / 18	-
	1989	-	-	22 / 22	37 / 43	19 / 19	-	1 / 1	9 / 10	10 / 10	20 / 20	-	17 / 17	-
	1990	-	-	22 / 24	43 / 41	19 / 19	-	1 / 1	10 / 10	10 / 8	20 / 18	-	17 / 17	-



TABLE 17. Region V Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

(continued)

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO <sub>2</sub>			
		a			b			c			a		b	c
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	continuous	hubbler	NAMS	SPM
WI	1983	60 / 61 <sup>c</sup>	16 / 16	-	-	-	-	2 / 2	2 / 2	-	2 / 4	-	13 / 13	-
	1984	58 / (d)	16 / 16	-	-	-	-	-	2 / 2	-	3 / (d)	-	13 / 13	-
	1985	59 / 42	16 / 16	-	-	-	-	-	2 / 2	-	4 / 4	-	13 / 13	-
	1986	43 / 46	13 / 11	-	-	-	-	-	2 / 2	-	3 / 4	-	12 / 11	-
	1987	31 / 31	15 / 0	-	8 / 2	0 / 5	-	-	3 / 3	-	3 / 3	-	9 / 9	-
	1988	31 / 31	-	-	1 / 2	5 / 6	1 / 1	-	2 / 2	-	8 / 6	-	6 / 5	2 / 1
	1989	30 / 27	-	3 / 6	3 / 3	6 / 6	3 / 3	-	2 / 2	-	5 / 6	-	6 / 3	1 / 1
	1990	27 / 0	-	6 / 33	3 / 4	6 / 6	3 / 0	-	2 / 2	-	6 / 4	-	3 / 3	1 / 2
	Regional Total	1983	462 / 614 <sup>c</sup>	144 / 144	-	-	-	-	44 / 44	21 / 22	-	56 / 63	-	78 / 78
1984		489 / (d)	144 / 144	-	-	-	-	42 / (d)	21 / 22	-	60 / (d)	-	78 / 78	-
1985		492 / 466	144 / 144	-	-	-	-	51 / 60	21 / 22	-	63 / 64	-	75 / 78	-
1986		448 / 378	135 / 125	-	-	-	-	46 / 45	22 / 22	-	56 / 55	-	73 / 66	-
1987		326 / 421	117 / 0	-	106 / 83	0 / 51	-	41 / 43	23 / 22	-	52 / 52	-	65 / 54	-
1988		61 / 61	-	120 / 62	102 / 135	59 / 60	8 / 9	36 / 34	19 / 19	34 / 15	59 / 58	-	48 / 48	12 / 10
1989		57 / 54	1 / 1	62 / 65	129 / 140	58 / 58	15 / 20	34 / 34	18 / 20	17 / 18	58 / 59	-	47 / 45	11 / 16
1990		53 / 11	-	65 / 100	140 / 134	59 / 59	20 / 19	34 / 34	20 / 20	20 / 23	59 / 55	-	44 / 45	16 / 16
Grand Total (SLAMS + NAMS + SPM)	1983		606 / 658								136 / 141			
	1984		633 / (d)								138 / (d)			
	1985		636 / 610								138 / 142			
	1986		583 / 503								129 / 121			
	1987		443 / 421		106 / 134						107 / 106			
	1988		181 / 113		169 / 204						119 / 116			
	1989		120 / 120		202 / 218						116 / 120			
1990		118 / 111		219 / 212						119 / 116				

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in current year/planned during next year.

d. Not available.

TABLE 17. Region V Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals	
		a	b	c	a	b	c	a	b	c	a	b	c		
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubbler	SPM	SLAMS	NAMS	SPM		
IL	1983	10 / 11	2 / 2	-	26 / 26	11 / 11	-	7 / 7	13 / 13	2 / 2	-	151 / 154	58 / 58	-	209 / 212
	1984	12 / (d)	2 / 2	-	26 / (d)	11 / 11	-	9 / (d)	-	2 / 2	-	145 / 147	58 / 58	-	203 / 205
	1985	12 / 12	2 / 2	-	26 / 25	11 / 11	-	9 / 8	-	2 / 2	-	147 / 151	57 / 58	-	204 / 209
	1986	11 / 10	2 / 2	-	23 / 22	12 / 12	-	8 / 7	-	2 / 2	-	141 / 125	57 / 57	-	198 / 182
	1987	10 / 10	2 / 2	-	22 / 23	12 / 12	-	7 / 7	-	2 / 2	-	149 / 139	54 / 43	-	203 / 182
	1988	15 / 16	2 / 2	-	26 / 28	11 / 11	-	12 / 12	-	2 / 2	-	91 / 109	44 / 44	77 / 21	212 / 174
	1989	15 / 16	2 / 2	-	28 / 29	11 / 11	1 / 4	12 / 9	-	2 / 2	1 / 4	104 / 107	44 / 44	24 / 30	172 / 181
	1990	15 / 10	2 / 2	0 / 2	29 / 28	11 / 11	4 / 2	9 / 8	-	2 / 2	4 / 2	106 / 100	44 / 44	30 / 31	180 / 175
IN	1983	6 / 8	2 / 2	-	8 / 8	7 / 7	-	3 / 8	-	-	-	100 / 111	39 / 39	-	139 / 150
	1984	7 / (d)	2 / 2	-	8 / (d)	7 / 7	-	3 / (d)	-	-	-	126 / 126	39 / 39	-	165 / 165
	1985	7 / 8	2 / 2	-	15 / 15	7 / 7	-	4 / 9	-	-	-	161 / 168	39 / 39	-	200 / 207
	1986	7 / 7	2 / 2	-	7 / 7	7 / 7	-	3 / 3	-	-	-	122 / 122	39 / 39	-	161 / 161
	1987	7 / 7	2 / 2	-	8 / 8	7 / 7	-	3 / 2	-	-	-	145 / 149	39 / 22	-	184 / 171
	1988	7 / 7	2 / 2	1 / 1	8 / 8	7 / 7	6 / 8	2 / 2	-	-	1 / 1	85 / 92	22 / 22	32 / 30	139 / 144
	1989	7 / 7	2 / 2	1 / 1	9 / 9	7 / 7	4 / 4	3 / 3	-	-	1 / 1	89 / 90	22 / 22	29 / 30	140 / 142
	1990	7 / 7	2 / 2	1 / 0	8 / 9	7 / 7	4 / 8	3 / 3	-	-	1 / 3	90 / 86	22 / 22	30 / 39	142 / 147
MI	1983	8 / 8	2 / 2	-	7 / 7	8 / 8	-	1 / 5	-	2 / 2	-	90 / 143	48 / 48	-	138 / 189
	1984	8 / (d)	2 / 2	-	7 / (d)	8 / 8	-	-	-	2 / 2	-	89 / 89	48 / 48	-	135 / 135
	1985	8 / 8	2 / 2	-	7 / 7	8 / 8	-	-	-	1 / 2	-	87 / 87	45 / 48	-	132 / 133
	1986	8 / 8	2 / 2	-	7 / 7	8 / 8	-	-	-	2 / 2	-	87 / 71	48 / 38	-	133 / 109
	1987	9 / 9	2 / 2	-	8 / 6	10 / 10	-	-	-	2 / 2	-	85 / 77	32 / 28	-	97 / 105
	1988	8 / 8	2 / 2	1 / 1	8 / 6	10 / 10	1 / 2	-	-	2 / 2	-	51 / 42	27 / 27	17 / 19	85 / 88
	1989	7 / 7	2 / 2	1 / 1	8 / 6	10 / 10	3 / 3	-	-	2 / 2	-	49 / 49	24 / 25	25 / 25	96 / 99
	1990	6 / 7	2 / 2	2 / 2	6 / 6	10 / 10	3 / 4	-	-	1 / 2	-	47 / 45	23 / 25	28 / 29	98 / 99
MN	1983	5 / 5	2 / 2	-	3 / 3	2 / 2	-	-	-	2 / 2	-	45 / 45	27 / 27	-	72 / 72
	1984	5 / (d)	2 / 2	-	4 / (d)	2 / 2	-	-	-	2 / 2	-	52 / 57	27 / 27	-	79 / 84
	1985	5 / 5	2 / 2	-	5 / 3	2 / 2	-	-	-	2 / 2	-	47 / 39	24 / 27	-	71 / 66
	1986	5 / 5	2 / 2	-	4 / 3	2 / 2	-	-	-	2 / 2	-	39 / 43	25 / 21	-	64 / 64
	1987	10 / 9	2 / 2	-	3 / 3	2 / 2	-	-	-	2 / 2	-	59 / 66	19 / 20	-	78 / 88
	1988	7 / 7	2 / 2	-	3 / 3	2 / 2	-	-	-	2 / 2	-	34 / 35	19 / 19	-	53 / 55
	1989	8 / 7	2 / 2	-	3 / 3	2 / 2	-	-	-	2 / 2	-	38 / 37	20 / 20	0 / 10	58 / 67
	1990	8 / 8	2 / 2	-	3 / 4	2 / 2	-	0 / 3	-	2 / 2	-	38 / 28	20 / 20	10 / 16	66 / 64
OH	1983	10 / 10	10 / 10	-	14 / 14	15 / 15	-	4 / 4	-	4 / 4	-	239 / 239	113 / 114	-	352 / 353
	1984	10 / (d)	10 / 10	-	16 / (d)	15 / 15	-	3 / (d)	-	4 / 4	-	236 / 239	113 / 114	-	349 / 353
	1985	10 / 10	10 / 10	-	18 / 16	15 / 15	-	2 / 2	-	4 / 4	-	227 / 227	114 / 114	-	341 / 341
	1986	8 / 8	10 / 10	-	17 / 17	15 / 15	-	3 / 1	-	4 / 4	-	226 / 172	108 / 108	-	334 / 278
	1987	6 / 5	10 / 10	-	16 / 15	15 / 15	-	-	-	4 / 4	-	172 / 236	98 / 71	-	270 / 307
	1988	5 / 5	10 / 10	1 / 1	17 / 17	18 / 18	-	-	-	4 / 4	2 / 2	75 / 80	78 / 78	58 / 38	211 / 196
	1989	5 / 5	10 / 10	1 / 4	17 / 18	18 / 16	-	1 / 1	-	4 / 4	-	81 / 88	75 / 76	33 / 36	189 / 200
1990	5 / 6	10 / 10	4 / 3	18 / 24	14 / 16	-	1 / 1	-	4 / 4	-	88 / 91	74 / 76	36 / 35	188 / 202	

TABLE 17. Region V Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2				Subtotal			Totals
		a	b	c	a	b	c	a		b	c				
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	bubbler	NAMS	SPM	SLAMS	NAMS	SPM	
WI	1983	5 / 5 <sup>c</sup>	2 / 2	-	17 / 18	4 / 4	-	-	-	2 / 2	-	88 / 90	39 / 39	-	125 / 129
	1984	5 / (d)	2 / 2	-	16 / (d)	4 / 4	-	-	-	2 / 2	-	82 / 82	39 / 39	-	121 / 121
	1985	5 / 5	2 / 2	-	15 / 16	4 / 4	-	-	-	2 / 2	-	83 / 67	39 / 39	-	122 / 106
	1986	5 / 5	2 / 2	-	16 / 17	4 / 4	-	-	-	2 / 2	-	87 / 72	35 / 32	-	102 / 104
	1987	5 / 5	2 / 2	-	19 / 19	4 / 4	-	-	-	2 / 2	-	88 / 60	35 / 25	-	101 / 85
	1988	5 / 5	2 / 2	1 / 2	20 / 20	4 / 4	2 / 3	-	-	2 / 2	-	83 / 83	20 / 21	6 / 7	89 / 91
	1989	5 / 5	2 / 2	1 / 1	21 / 21	3 / 3	2 / 3	-	-	2 / 2	-	84 / 62	20 / 18	10 / 14	94 / 94
1990	5 / 5	2 / 2	1 / 2	21 / 22	4 / 4	3 / 3	-	-	2 / 2	-	82 / 35	19 / 19	14 / 40	95 / 94	
Regional Total	1983	44 / 47	20 / 20	-	75 / 76	47 / 47	-	16 / 25	13 / 13	12 / 12	-	711 / 782	322 / 323	-	1033 / 1105
	1984	47 / (d)	20 / 20	-	77 / (d)	47 / 47	-	15 / (d)	-	12 / 12	-	730 / 740	322 / 323	-	1052 / 1063
	1985	47 / 48	20 / 20	-	84 / 82	47 / 47	-	15 / 19	-	11 / 12	-	782 / 739	318 / 323	-	1070 / 1062
	1986	44 / 43	20 / 20	-	74 / 73	48 / 48	-	14 / 11	-	12 / 12	-	682 / 605	310 / 293	-	992 / 898
	1987	47 / 45	20 / 20	-	74 / 74	50 / 50	-	10 / 9	-	12 / 12	-	656 / 727	277 / 209	-	933 / 936
	1988	47 / 48	20 / 20	4 / 5	80 / 82	52 / 52	9 / 11	14 / 14	-	12 / 12	3 / 3	399 / 422	210 / 211	190 / 115	799 / 748
	1989	47 / 47	20 / 20	4 / 7	84 / 88	49 / 49	10 / 14	16 / 13	-	12 / 12	2 / 5	425 / 433	205 / 205	121 / 145	751 / 783
	1990	48 / 43	20 / 20	8 / 9	88 / 93	48 / 50	14 / 18	13 / 15	-	11 / 12	5 / 5	431 / 385	202 / 206	148 / 190	781 / 781
Grand Total	1983		64 / 67			122 / 123			40 / 50			1033 / 1105			
	1984		67 / (d)			124 / (d)			27 / (d)			1052 / 1063			
(SLAMS +	1985		67 / 68			131 / 129			26 / 31			1070 / 1062			
NAMS +	1986		64 / 63			122 / 121			26 / 23			992 / 898			
SPM)	1987		67 / 65			124 / 124			22 / 21			933 / 936			
	1988		71 / 73			141 / 145			29 / 29			799 / 748			
	1989		71 / 74			143 / 149			30 / 30			751 / 783			
	1990		74 / 72 <sup>d</sup>			148 / 161			29 / 32			781 / 781			

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in current year/planned during next year.

d. Not available.

TABLE 18. Region VI Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO <sub>2</sub>			
		a	b	c	a	b	c	a	b	c	a	b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SLAMS bubbler	NAMS	SPM
AR	1983	23 / 23 <sup>c</sup>	3 / 3	-	-	-	-	2 / 2 <sup>c</sup>	-	-	1 / 1 <sup>c</sup>	-	1 / 1	-
	1984	23 / (d)	3 / 3	-	-	-	-	2 / (d)	-	-	1 / (d)	-	1 / 1	-
	1985	23 / 23	3 / 3	-	-	-	-	2 / 2	-	-	1 / 1	-	1 / 1	-
	1986	23 / 23	3 / 3	-	-	-	-	2 / 2	-	-	1 / 1	-	1 / 1	-
	1987	26 / 24	3 / 0	-	2 / 2	0 / 2	-	2 / 2	-	-	1 / 1	-	1 / 1	-
	1988	39 / 0	-	-	2 / 21	2 / 2	-	2 / 2	-	-	1 / 1	-	1 / 1	-
	1989	-	-	-	22 / 22	2 / 2	-	3 / 3	-	-	1 / 1	-	1 / 1	-
	1990	2 / 2	-	-	18 / 18	2 / 2	-	2 / 2	-	-	1 / 1	-	1 / 1	-
	LA	1983	21 / 22	7 / 7	-	-	-	-	2 / 2	1 / 2	-	7 / 8	-	1 / 1
1984		22 / (d)	7 / 7	-	-	-	-	2 / (d)	2 / 2	-	5 / (d)	-	1 / 1	-
1985		22 / 22	7 / 7	-	-	-	-	2 / 2	2 / 2	-	5 / 5	-	1 / 1	-
1986		22 / 22	7 / 7	-	-	-	-	2 / 2	2 / 2	-	5 / 5	-	1 / 1	-
1987		21 / 16	7 / 0	-	4 / 1	0 / 3	-	2 / 2	2 / 2	-	5 / 5	-	1 / 1	-
1988		29 / 21	-	4 / 2	1 / 5	5 / 5	-	2 / 2	2 / 2	-	5 / 5	-	1 / 1	-
1989		20 / 20	-	3 / 3	5 / 5	5 / 5	-	2 / 2	2 / 2	-	5 / 5	-	1 / 1	-
1990		20 / 20	-	3 / 3	5 / 5	5 / 5	-	2 / 2	2 / 2	1 / 2	5 / 5	-	1 / 1	-
NM		1983	45 / 47	4 / 4 <sup>e</sup>	-	-	-	-	2 / 2	2 / 2	-	8 / 8	1 / 1	1 / 1
	1984	44 / (d)	4 / 4	-	-	-	-	2 / (d)	2 / 2	-	8 / (d)	-	1 / 1	-
	1985	48 / 47	4 / 4	-	-	-	-	2 / 2	2 / 2	-	9 / 9	-	1 / 1	-
	1986	43 / 43	4 / 4	-	-	-	-	2 / 2	2 / 2	-	9 / 9	-	-	-
	1987	34 / 41	2 / 0	-	4 / 11	0 / 4	-	2 / 2	2 / 2	-	10 / 10	-	-	-
	1988	50 / 33	-	-	14 / 38	4 / 4	-	2 / 2	2 / 2	-	9 / 9	-	-	-
	1989	7 / 7	-	-	22 / 25	4 / 4	-	2 / 2	-	-	9 / 9	-	-	-
	1990	1 / 1	-	-	23 / 25	4 / 4	3 / 3	2 / 2	-	-	9 / 9	-	-	1 / 1
	OK	1983	24 / 25	8 / 8	-	-	-	-	3 / 3	2 / 2	-	7 / 7	-	1 / 1
1984		25 / (d)	8 / 8	-	-	-	-	3 / (d)	2 / 2	-	7 / (d)	-	1 / 1	-
1985		18 / 20	8 / 8	-	-	-	-	3 / 3	2 / 2	-	5 / 6	-	1 / 1	-
1986		16 / 16	7 / 7	-	-	-	-	3 / 3	2 / 2	-	3 / 3	-	1 / 1	-
1987		15 / 10	8 / 0	-	5 / 8	0 / 4	-	3 / 3	2 / 2	-	3 / 3	-	1 / 1	-
1988		23 / 7	1 / 1	8 / 10	12 / 11	4 / 4	-	3 / 3	2 / 2	-	6 / 6	-	1 / 1	-
1989		7 / 0	-	8 / 6	10 / 10	4 / 4	-	2 / 2	2 / 2	-	6 / 6	-	1 / 1	1 / 0
1990		7 / 7	-	-	12 / 12	4 / 4	-	3 / 3	2 / 2	-	6 / 6	-	1 / 1	1 / 0

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TABLE 18. Region VI Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO <sub>2</sub>			
		a	b	c	a	b	c	a	b	c	a	b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SLAMS bubbler	NAMS	SPM
TX	1983	31 / 32 <sup>c</sup>	44 / 44	-	-	-	-	17 / 18 <sup>c</sup>	9 / 10	-	7 / 7 <sup>c</sup>	-	4 / 4	-
	1984	31 / (d)	44 / 44	-	-	-	-	16 / (d)	9 / 10	-	7 / (d)	-	4 / 4	-
	1985	26 / 26	44 / 44	-	-	-	-	16 / 16	10 / 10	-	6 / 6	-	4 / 4	-
	1986	31 / 31	45 / 45	-	-	-	-	16 / 16	10 / 10	-	6 / 7	-	3 / 3	-
	1987	25 / 31	42 / 0	-	25 / 7	0 / 21	-	16 / 16	10 / 10	-	7 / 5	-	3 / 3	-
	1988	68 / 8	-	29 / 8	2 / 14	21 / 21	-	14 / 11	10 / 9	79 / 33	6 / 8	-	5 / 5	12 / 12
	1989	1 / 1	-	5 / 5	15 / 16	21 / 21	1 / 1	8 / 8	10 / 10	10 / 10	7 / 7	-	5 / 5	9 / 9
	1990	-	-	-	10 / 12	20 / 21	8 / 8	10 / 9	10 / 10	8 / 5	7 / 7	-	5 / 5	9 / 9
	Regional Total	1983	144 / 149	66 / 66	-	-	-	26 / 27	14 / 16	-	30 / 31 <sup>c</sup>	1 / 1	8 / 8	-
	1984	145 / (d)	66 / 66	-	-	-	25 / (d)	15 / 16	-	28 / (d)	-	8 / 8	-	
	1985	135 / 138	66 / 66	-	-	-	25 / 25	16 / 16	-	26 / 27	-	8 / 8	-	
	1986	135 / 135	66 / 66	-	-	-	25 / 25	16 / 16	-	24 / 25	-	6 / 6	-	
	1987	121 / 122	62 / 0	-	40 / 29	0 / 34	25 / 25	16 / 16	-	26 / 24	-	6 / 6	-	
	1988	209 / 69	1 / 1	41 / 18	31 / 89	36 / 36	23 / 20	16 / 15	79 / 33	27 / 29	-	8 / 8	12 / 12	
	1989	35 / 28	-	16 / 14	74 / 78	36 / 36	1 / 1	17 / 17	14 / 14	10 / 10	28 / 28	-	8 / 8	10 / 9
	1990	30 / 30	-	3 / 3	66 / 73	35 / 36	11 / 11	19 / 18	14 / 14	9 / 7	28 / 28	-	8 / 8	11 / 10
Grand Total	1983		210 / 215					40 / 43			39 / 40			
	1984		211 / (d)					40 / (d)			36 / (d)			
(SLAMS + NAMS + SPM)	1985		201 / 204					41 / 41			34 / 35			
	1986		201 / 201					41 / 41			30 / 31			
	1987		183 / 122		40 / 63			41 / 41			32 / 30			
	1988		251 / 88		67 / 126			118 / 68			47 / 49			
	1989		51 / 42		111 / 116			41 / 41			46 / 45			
	1990		33 / 33		114 / 120			42 / 39			47 / 46			

- a. Number of SLAMS monitors excluding NAMS.
- b. Number of monitors operating/required.
- c. Number of monitors operating in current year/planned during next year.
- d. Not available.

TABLE 18. Region VI Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals	
		a	b	c	a	b	c	a	b	c	a	b	c		
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubbler	SPM	SLAMS	NAMS	SPM		
AR	1983	-	-	-	-	2 / 2	-	1 / 1	-	-	-	27 / 27	6 / 6	-	33 / 33
	1984	-	-	-	-	2 / 2	-	1 / (d)	-	-	-	27 / 27	6 / 6	-	33 / 33
	1985	-	-	-	-	2 / 2	-	1 / 1	-	-	-	27 / 27	6 / 6	-	33 / 33
	1986	-	-	-	-	2 / 2	-	1 / 1	-	-	-	27 / 27	6 / 6	-	33 / 33
	1987	-	-	-	-	2 / 2	-	1 / 1	-	-	-	32 / 30	6 / 5	-	38 / 35
	1988	-	-	-	-	2 / 2	-	1 / 1	-	-	-	45 / 25	5 / 5	-	50 / 30
	1989	-	-	-	-	2 / 2	-	1 / 1	-	-	-	27 / 27	5 / 5	-	32 / 32
	1990	-	-	-	-	2 / 2	0 / 1	1 / 1	-	-	-	24 / 25	5 / 5	0 / 1	29 / 31
LA	1983	1 / 1	2 / 2	-	8 / 9	6 / 6	-	2 / 2	14 / 14	2 / 2	-	55 / 58	19 / 20	-	74 / 78
	1984	1 / (d)	2 / 2	-	9 / (d)	6 / 6	-	2 / (d)	13 / (d)	2 / 2	-	54 / 57	20 / 20	-	74 / 77
	1985	1 / 1	2 / 2	-	9 / 9	6 / 6	-	2 / 2	13 / 13	2 / 2	-	54 / 54	20 / 20	-	74 / 74
	1986	1 / 1	2 / 2	-	9 / 9	6 / 6	-	2 / 2	-	2 / 2	-	41 / 41	20 / 20	-	61 / 61
	1987	1 / 1	2 / 2	-	9 / 9	6 / 6	-	2 / 2	-	2 / 2	-	44 / 36	20 / 16	-	64 / 52
	1988	1 / 1	2 / 2	-	9 / 13	6 / 6	1 / 1	2 / 2	-	2 / 2	-	49 / 49	18 / 18	5 / 3	72 / 70
	1989	1 / 1	2 / 2	-	13 / 12	6 / 6	1 / 1	2 / 2	-	2 / 2	-	48 / 47	18 / 18	4 / 4	70 / 69
	1990	1 / 2	2 / 2	-	13 / 19	6 / 6	1 / 1	3 / 13	-	2 / 2	-	49 / 66	18 / 18	5 / 6	72 / 90
NM	1983	6 / 7	2 / 2	-	5 / 6	2 / 2	-	2 / 2	1 / 1	-	-	70 / 74	11 / 11	-	81 / 85
	1984	6 / (d)	2 / 2	-	5 / (d)	2 / 2	-	2 / (d)	-	-	-	67 / 72	11 / 11	-	78 / 83
	1985	7 / 7	2 / 2	-	5 / 6	2 / 2	-	2 / 2	-	-	-	71 / 73	11 / 11	-	82 / 84
	1986	7 / 7	2 / 2	-	6 / 6	2 / 2	-	1 / 1	-	-	-	68 / 68	10 / 10	-	78 / 78
	1987	12 / 12	2 / 2	-	6 / 6	2 / 2	-	2 / 2	-	-	-	70 / 84	8 / 10	-	78 / 94
	1988	8 / 9	2 / 2	-	7 / 6	2 / 2	-	3 / 3	-	-	-	93 / 102	10 / 10	-	103 / 112
	1989	8 / 8	2 / 2	-	7 / 7	2 / 2	1 / 1	3 / 3	-	-	-	58 / 61	8 / 8	1 / 1	67 / 70
	1990	8 / 8	2 / 2	-	7 / 7	2 / 2	1 / 1	3 / 3	-	-	1 / 1	53 / 55	8 / 8	6 / 6	67 / 69
OK	1983	4 / 4	2 / 2	-	3 / 3	4 / 4	-	6 / 6	-	-	-	47 / 48	17 / 17	-	64 / 65
	1984	4 / (d)	2 / 2	-	3 / (d)	4 / 4	-	6 / (d)	-	-	-	48 / 46	17 / 17	-	65 / 63
	1985	4 / 4	2 / 2	-	3 / 3	4 / 4	-	5 / 6	-	-	-	38 / 42	17 / 17	-	55 / 59
	1986	4 / 4	2 / 2	-	3 / 3	4 / 4	-	6 / 6	-	-	-	35 / 35	16 / 16	-	51 / 51
	1987	4 / 3	2 / 2	-	3 / 3	4 / 4	-	6 / 6	-	1 / 1	-	39 / 38	18 / 14	-	57 / 50
	1988	3 / 3	2 / 2	-	3 / 3	4 / 4	-	6 / 6	-	-	-	56 / 39	14 / 14	8 / 10	78 / 63
	1989	3 / 3	2 / 2	-	3 / 3	4 / 4	-	6 / 6	-	-	1 / 0	37 / 30	13 / 13	10 / 6	60 / 49
	1990	3 / 3	2 / 2	-	3 / 3	4 / 4	-	6 / 6	-	-	1 / 0	40 / 40	13 / 13	2 / 0	55 / 53

TABLE 18. Region VI Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals	
		a	b	c	a	b	c	a	b	c	a	b	c		
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubbler	SPM	SLAMS	NAMS	SPM		
TX	1983	4 / 5	8 / 8	-	16 / 16	14 / 14	-	5 / 5	-	4 / 4	-	80 / 83	83 / 84	-	163 / 167
	1984	5 / (d)	8 / 8	-	16 / (d)	14 / 14	-	5 / (d)	-	4 / 4	-	80 / 72	83 / 84	-	163 / 156
	1985	5 / 5	8 / 8	-	13 / 15	14 / 14	-	5 / 5	-	4 / 4	-	71 / 73	84 / 84	-	155 / 157
	1986	6 / 5	8 / 8	-	11 / 16	14 / 14	-	5 / 5	-	4 / 4	-	75 / 80	84 / 84	-	159 / 164
	1987	3 / 3	10 / 10	-	16 / 13	14 / 14	-	5 / 3	-	4 / 4	-	97 / 78	83 / 62	-	180 / 140
	1988	4 / 3	8 / 10	5 / 4	14 / 15	15 / 15	9 / 8	4 / 4	-	4 / 4	5 / 5	112 / 63	63 / 64	139 / 68	314 / 195
	1989	3 / 3	10 / 10	6 / 6	15 / 16	14 / 14	5 / 7	5 / 5	-	4 / 4	5 / 5	54 / 56	64 / 64	41 / 43	159 / 163
	1990	4 / 4	10 / 10	5 / 5	16 / 15	14 / 14	7 / 9	4 / 4	-	4 / 4	5 / 5	51 / 51	63 / 64	42 / 41	156 / 156
	Regional Total	1983	15 / 17	14 / 14	-	32 / 34	28 / 28	-	16 / 16	15 / 15	6 / 6	-	279 / 290	136 / 138	-
	1984	16 / (d)	14 / 14	-	33 / (d)	28 / 28	-	16 / (d)	13 / (d)	6 / 6	-	276 / 274	137 / 138	-	413 / 412
	1985	17 / 17	14 / 14	-	30 / 33	28 / 28	-	15 / 16	13 / 13	6 / 6	-	261 / 269	138 / 138	-	399 / 407
	1986	18 / 17	14 / 14	-	29 / 34	28 / 28	-	15 / 15	-	6 / 6	-	246 / 251	136 / 136	-	382 / 387
	1987	20 / 19	16 / 16	-	34 / 31	28 / 28	-	16 / 14	-	7 / 7	-	282 / 264	135 / 107	-	417 / 371
	1988	16 / 16	14 / 16	5 / 4	33 / 39	29 / 29	10 / 9	16 / 16	-	6 / 6	5 / 5	355 / 278	110 / 111	152 / 81	617 / 470
	1989	15 / 15	16 / 16	6 / 6	38 / 38	28 / 28	7 / 9	17 / 17	-	6 / 6	6 / 5	224 / 221	108 / 108	56 / 54	388 / 383
	1990	16 / 17	16 / 16	5 / 5	39 / 44	28 / 28	9 / 12	17 / 27	-	6 / 6	7 / 6	217 / 237	107 / 108	55 / 54	379 / 399
Grand Total	1983		29 / 31			60 / 62			37 / 37				415 / 428		
	1984		30 / (d)			61 / (d)			35 / (d)				413 / 412		
(SLAMS +	1985		31 / 31			58 / 61			34 / 35				399 / 407		
NAMS +	1986		32 / 31			57 / 62			21 / 21				382 / 387		
SPM)	1987		36 / 35			62 / 59			23 / 21				417 / 371		
	1988		35 / 36			72 / 77			27 / 27				617 / 470		
	1989		37 / 37			73 / 75			29 / 28				388 / 383		
	1990		37 / 38			76 / 84			30 / 39				379 / 399		

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in current year/planned during next year.

d. Not available.

TABLE 19. Region VII Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO <sub>2</sub>			
		a	b	c	a	b	c	a	b	c	a	b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SO <sub>2</sub> bubbler	NAMS	SPM
IA	1983	34 / 34 <sup>c</sup>	14 / 14	-	-	-	-	3 / 3	-	-	3 / 3	-	3 / 3	-
	1984	34 / (d)	14 / 14	-	-	-	-	3 / (d)	-	-	3 / (d)	-	3 / 3	-
	1985	30 / 30	14 / 14	-	-	-	-	3 / 3	-	-	2 / 2	-	3 / 3	-
	1986	33 / 33	14 / 4	-	-	c	-	3 / 3	-	-	4 / 4	-	3 / 0	-
	1987	31 / 31	11 / 0	-	11 / 10	0 / 3	-	2 / 2	-	-	7 / 9	-	2 / 3	-
	1988	30 / 22	-	4 / 3	9 / 9	3 / 3	-	1 / 1	-	-	5 / 5	-	3 / 3	5 / 5
	1989	30 / 30	-	4 / 4	8 / 8	3 / 3	-	1 / 1	-	-	5 / 5	-	3 / 3	6 / 6
	1990	24 / 24	-	4 / 4	9 / 9	3 / 3	-	1 / 1	-	-	5 / 5	-	3 / 3	3 / 3
KS	1983	12 / 12	8 / 8	-	-	-	-	1 / 1	1 / 1	-	-	-	2 / 2	-
	1984	12 / (d)	8 / 8	-	-	-	-	1 / (d)	1 / 1	-	-	-	2 / 2	-
	1985	12 / 12	8 / 8	-	-	-	-	1 / 1	1 / 1	-	-	-	2 / 2	-
	1986	12 / 12	8 / 3	-	-	-	-	1 / 1	1 / 1	-	-	-	2 / 2	-
	1987	12 / 13	7 / 0	-	5 / 6	0 / 3	-	1 / 1	1 / 1	-	-	-	1 / 2	-
	1988	17 / 17	-	1 / 1	3 / 4	3 / 3	5 / 5	1 / 1	1 / 1	-	-	-	2 / 2	1 / 0
	1989	1 / 1	-	17 / 17	3 / 3	3 / 3	7 / 6	1 / 1	1 / 1	-	-	-	2 / 2	1 / 1
	1990	-	-	19 / 19	3 / 3	3 / 3	6 / 6	1 / 1	1 / 1	-	-	-	2 / 2	-
MO	1983	27 / 28	14 / 14	-	-	-	-	6 / 6	3 / 3	-	10 / 10	-	5 / 5	-
	1984	29 / (d)	14 / 14	-	-	-	-	6 / (d)	3 / 3	-	10 / (d)	-	4 / 4	-
	1985	28 / 28	14 / 14	-	-	-	-	6 / 6	3 / 3	-	10 / 10	-	4 / 4	-
	1986	31 / 31	14 / 8	-	-	-	-	4 / 5	3 / 3	-	10 / 10	-	4 / 4	-
	1987	16 / 13	11 / 0	-	11 / 10	0 / 7	-	7 / 7	3 / 3	-	10 / 10	-	4 / 4	-
	1988	8 / 5	-	-	8 / 12	8 / 8	-	6 / 6	3 / 3	7 / 7	10 / 10	-	4 / 4	5 / 5
	1989	3 / 0	-	7 / 6	12 / 13	8 / 8	-	6 / 6	3 / 3	8 / 8	10 / 10	-	4 / 4	5 / 5
	1990	-	-	1 / 1	14 / 13	8 / 8	2 / 2	6 / 6	3 / 3	8 / 13	11 / 11	-	4 / 4	4 / 4

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TABLE 19. Region VII Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO2			
		a	b	c	a	b	c	a	b	c	a	b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SLAMS bubbler	NAMS	SPM
NE	1983	33 / 33 <sup>c</sup>	6 / 6	-	-	-	-	2 / 2 <sup>c</sup>	2 / 2	-	-	-	1 / 1	-
	1984	30 / (d)	6 / 6	-	-	-	-	2 / (d)	2 / 2	-	-	-	1 / 1	-
	1985	31 / 31	6 / 6	-	-	-	-	2 / 2	2 / 2	-	-	-	1 / 1	-
	1986	30 / 30	4 / 2	-	-	c	-	2 / 2	2 / 2	-	-	-	0 / 1	-
	1987	29 / 25	3 / 0	-	7 / 8	0 / 2	-	1 / 1	2 / 2	-	-	-	1 / 1	-
	1988	30 / 27	-	2 / 2	7 / 9	2 / 2	-	1 / 1	2 / 2	2 / 2	-	-	1 / 1	-
	1989	28 / 28	-	2 / 2	8 / 9	2 / 2	-	1 / 1	2 / 2	2 / 2	-	-	1 / 1	-
	1990	28 / 28	-	6 / 6	8 / 8	2 / 2	-	1 / 1	2 / 2	4 / 4	-	-	1 / 1	-
	Regional Total	1983	106 / 107	42 / 42	-	-	-	-	12 / 12	6 / 6	-	13 / 16	-	11 / 11
1984	105 / (d)	42 / 42	-	-	-	-	12 / (d)	6 / 6	-	13 / (d)	-	10 / 10	-	
1985	101 / 101	42 / 42	-	-	-	-	12 / 12	6 / 6	-	12 / 12	-	10 / 10	-	
1986	108 / 106	40 / 17	-	-	-	-	10 / 11	6 / 6	-	14 / 14	-	9 / 7	-	
1987	88 / 82	32 / 0	-	34 / 34	0 / 15	-	11 / 11	6 / 6	-	17 / 19	-	8 / 10	-	
1988	85 / 71	-	7 / 6	27 / 34	16 / 16	5 / 5	9 / 9	6 / 6	9 / 9	15 / 15	-	10 / 10	11 / 10	
1989	82 / 59	-	30 / 29	31 / 33	16 / 16	7 / 6	9 / 9	6 / 6	10 / 10	15 / 15	-	10 / 10	12 / 12	
1990	50 / 50	-	30 / 30	34 / 33	16 / 16	8 / 8	9 / 9	6 / 6	12 / 17	16 / 16	-	10 / 10	7 / 7	
Grand Total	1983		148 / 149					18 / 18			24 / 27			
1984			147 / (d)					18 / (d)			23 / (d)			
SLAMS + NAMS + SPM)	1985		143 / 143					18 / 18			22 / 22			
1986			148 / 123					16 / 17			23 / 21			
1987			120 / 62		34 / 49			17 / 17			25 / 29			
1988			92 / 77		48 / 55			24 / 24			36 / 35			
1989			92 / 68		54 / 55			25 / 25			37 / 37			
1990			80 / 80		58 / 57			27 / 32			33 / 33			

- a. Number of SLAMS monitors excluding NAMS.
- b. Number of monitors operating/required.
- c. Number of monitors operating in current year/planned during next year.
- d. Not available.

TABLE 19. Region VII Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals	
		a	b	c	a	b	c	a	b	c	a	b	c		
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	continuous	bubbler	NAMS	SPM	SLAMS	NAMS		SPM
NE	1983	4 / 4	-	-	2 / 2	2 / 2	-	-	-	-	-	41 / 41	11 / 11	-	52 / 52
	1984	4 / (d)	-	-	2 / (d)	2 / 2	-	-	-	-	-	38 / 38	11 / 11	-	49 / 49
	1985	3 / 4	-	-	2 / 2	2 / 2	-	-	-	-	-	38 / 39	11 / 11	-	49 / 50
	1986	2 / 2	2 / 2	-	2 / 2	2 / 2	-	-	-	-	-	38 / 38	10 / 9	-	48 / 45
	1987	2 / 2	2 / 2	-	2 / 2	2 / 2	-	-	-	-	-	41 / 39	10 / 9	-	51 / 47
	1988	2 / 2	2 / 2	-	2 / 2	2 / 2	-	-	-	-	-	42 / 41	9 / 9	4 / 4	55 / 54
	1989	2 / 2	2 / 2	-	2 / 2	2 / 2	-	-	-	-	-	41 / 42	9 / 9	4 / 4	54 / 55
	1990	2 / 2	2 / 2	-	2 / 2	2 / 2	-	-	-	-	-	39 / 39	9 / 9	10 / 10	58 / 58
Regional Total	1983	18 / 18	4 / 4	-	18 / 18	11 / 11	-	6 / 7	0 / 1	4 / 4	-	173 / 179	76 / 78	-	251 / 257
	1984	18 / (d)	4 / 4	-	20 / (d)	11 / 11	-	7 / (d)	-	4 / 4	-	175 / 181	77 / 77	-	252 / 258
	1985	17 / 19	4 / 4	-	19 / 19	11 / 11	-	8 / 8	1 / 1	4 / 4	-	170 / 172	77 / 77	-	247 / 249
	1986	17 / 17	6 / 6	-	19 / 19	11 / 11	-	7 / 8	-	4 / 4	-	173 / 175	76 / 81	-	249 / 226
	1987	18 / 19	6 / 6	-	20 / 20	11 / 11	-	8 / 8	-	4 / 4	-	198 / 193	87 / 82	-	263 / 245
	1988	17 / 18	6 / 6	2 / 2	18 / 18	11 / 11	6 / 5	7 / 7	-	4 / 4	1 / 1	178 / 170	83 / 83	41 / 38	272 / 261
	1989	17 / 17	6 / 6	3 / 3	18 / 18	11 / 11	4 / 4	7 / 6	-	4 / 4	2 / 2	159 / 157	83 / 83	68 / 66	280 / 276
	1990	17 / 17	6 / 6	1 / 1	19 / 19	11 / 11	2 / 2	8 / 6	-	4 / 4	3 / 3	151 / 150	83 / 83	63 / 68	267 / 271
Grand Total	1983		22 / 22			29 / 29			10 / 12				251 / 257		
	1984		22 / (d)			31 / (d)			11 / (d)				252 / 258		
(SLAMS + NAMS + SPM)	1985		21 / 23			30 / 30			13 / 13				247 / 249		
	1986		23 / 23			30 / 30			11 / 12				249 / 226		
	1987		24 / 25			31 / 31			12 / 12				263 / 245		
	1988		25 / 24			35 / 34			12 / 12				272 / 261		
	1989		26 / 26			33 / 33			13 / 12				280 / 276		
	1990		24 / 24			32 / 32			13 / 13				267 / 271		

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in current year/planned during next year.

d. Not available.

TABLE 19. Region VII Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals	
		a	b	c	a	b	c	a	b	c	a	b	c		
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	bubbler	NAMS	SPM	SLAMS	NAMS		SPM
NE	1983	4 / 4 <sup>c</sup>	-	-	2 / 2 <sup>c</sup>	2 / 2	-	-	-	-	-	41 / 41 <sup>c</sup>	11 / 11	-	52 / 52
	1984	4 / (d)	-	-	2 / (d)	2 / 2	-	-	-	-	-	38 / 38	11 / 11	-	49 / 49
	1985	3 / 4	-	-	2 / 2	2 / 2	-	-	-	-	-	38 / 39	11 / 11	-	49 / 50
	1986	2 / 2	2 / 2	-	2 / 2	2 / 2	-	-	-	-	-	38 / 38	10 / 9	-	48 / 45
	1987	2 / 2	2 / 2	-	2 / 2	2 / 2	-	-	-	-	-	41 / 38	10 / 9	-	51 / 47
	1988	2 / 2	2 / 2	-	2 / 2	2 / 2	-	-	-	-	-	42 / 41	9 / 9	4 / 4	55 / 54
	1989	2 / 2	2 / 2	-	2 / 2	2 / 2	-	-	-	-	-	41 / 42	9 / 9	4 / 4	54 / 55
	1990	2 / 2	2 / 2	-	2 / 2	2 / 2	-	-	-	-	-	39 / 39	9 / 9	10 / 10	58 / 58
Total	1983	18 / 18	4 / 4	-	18 / 18	11 / 11	-	6 / 7 <sup>c</sup>	0 / 1 <sup>c</sup>	4 / 4	-	173 / 170	78 / 78	-	251 / 257
	1984	18 / (d)	4 / 4	-	20 / (d)	11 / 11	-	7 / (d)	-	4 / 4	-	175 / 181	77 / 77	-	252 / 258
	1985	17 / 19	4 / 4	-	19 / 19	11 / 11	-	8 / 8	1 / 1	4 / 4	-	170 / 172	77 / 77	-	247 / 249
	1986	17 / 17	6 / 6	-	19 / 19	11 / 11	-	7 / 8	-	4 / 4	-	173 / 175	76 / 61	-	249 / 226
	1987	18 / 19	6 / 6	-	20 / 20	11 / 11	-	8 / 8	-	4 / 4	-	198 / 193	67 / 52	-	263 / 245
	1988	17 / 16	6 / 6	2 / 2	18 / 18	11 / 11	6 / 6	7 / 7	-	4 / 4	1 / 1	178 / 170	63 / 53	41 / 38	272 / 261
	1989	17 / 17	6 / 6	3 / 3	18 / 18	11 / 11	4 / 4	7 / 6	-	4 / 4	2 / 2	159 / 157	63 / 53	68 / 66	280 / 276
	1990	17 / 17	6 / 6	1 / 1	19 / 19	11 / 11	2 / 2	6 / 6	-	4 / 4	3 / 3	151 / 150	63 / 53	63 / 68	267 / 271
Grand Total	1983		22 / 22			29 / 29		10 / 12				251 / 257			
	1984		22 / (d)			31 / (d)		11 / (d)				252 / 258			
(SLAMS +	1985		21 / 23			30 / 30		13 / 13				247 / 249			
NAMS +	1986		23 / 23			30 / 30		11 / 12				249 / 226			
SPM)	1987		24 / 25			31 / 31		12 / 12				263 / 245			
	1988		25 / 24			35 / 34		12 / 12				272 / 261			
	1989		26 / 26			33 / 33		13 / 12				280 / 276			
	1990		24 / 24			32 / 32		13 / 13				267 / 271			

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in current year/planned during next year.

d. Not available.

TABLE 20. Region VIII Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO2				
		a	b	c	a	b	c	a	b	c	a		b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	continuous	bubbler	SLAMS	NAMS	SPM
CO	1983	48 / 48 <sup>c</sup>	12 / 12	-	-	-	-	5 / 5	2 / 2	-	-	-	2 / 2	-	-
	1984	60 / (d)	12 / 12	-	-	-	-	5 / (d)	2 / 2	-	-	-	2 / 2	-	-
	1985	34 / 34	12 / 12	-	-	-	-	4 / 4	2 / 2	-	-	-	2 / 2	-	-
	1986	51 / 37	12 / 12	-	-	c	-	8 / 8	2 / 2	-	-	-	2 / 2	-	-
	1987	11 / 10	9 / 0	-	18 / 21	0 / 8	-	3 / 3	2 / 2	-	-	-	2 / 2	-	-
	1988	14 / 14	-	1 / 1	24 / 23	7 / 8	2 / 2	3 / 3	2 / 2	-	-	-	2 / 2	-	-
	1989	11 / 11	-	6 / 6	22 / 22	8 / 8	5 / 5	2 / 2	2 / 2	1 / 1	-	-	2 / 2	-	-
	1990	9 / 9	-	5 / 7	28 / 30	8 / 8	2 / 2	4 / 4	2 / 2	3 / 2	-	-	2 / 2	-	-
	MT	1983	8 / 8	2 / 2	-	-	-	-	5 / 5 <sup>c</sup>	-	-	1 / 1	1 / 1	1 / 1	-
1984		25 / (d)	2 / 2	-	-	-	-	7 / (d)	-	-	4 / (d)	-	1 / 1	-	-
1985		32 / 32	2 / 2	-	-	-	-	4 / 4	-	-	2 / 2	-	1 / 1	-	-
1986		26 / 26	2 / 2	-	-	-	-	3 / 3	-	-	2 / 2	-	1 / 1	-	-
1987		14 / 7	2 / 0	-	14 / 18	-	-	-	-	-	3 / 3	-	1 / 1	-	-
1988		10 / 8	-	3 / 3	20 / 23	-	-	3 / 3	-	-	2 / 2	-	-	3 / 3	-
1989		9 / 10	-	10 / 6	14 / 23	-	3 / 1	3 / 3	-	-	2 / 2	-	-	16 / 15	-
1990		9 / 7	-	2 / 2	14 / 18	-	5 / 5	5 / 5	-	-	2 / 2	-	-	15 / 15	-
ND		1983	18 / 18	1 / 1	-	-	-	-	-	-	-	4 / 4	-	-	-
	1984	16 / (d)	1 / 1	-	-	-	-	-	-	-	4 / (d)	-	-	-	-
	1985	15 / 14	1 / 1	-	-	-	-	-	-	-	4 / 5	-	-	-	-
	1986	10 / 7	1 / 1	-	-	-	-	-	-	-	5 / 6	-	-	-	-
	1987	3 / 3	1 / 0	-	5 / 5	0 / 1	-	-	-	-	5 / 5	-	-	-	-
	1988	-	-	-	4 / 4	1 / 1	-	-	-	-	6 / 6	-	-	1 / 1	-
	1989	-	-	-	4 / 4	1 / 1	-	-	-	-	6 / 6	-	-	1 / 2	-
	1990	-	-	-	4 / 4	1 / 1	1 / 1	-	-	-	5 / 5	-	-	2 / 2	-
	SD	1983	21 / 21	2 / 2	-	-	-	-	-	-	-	-	-	-	-
1984		22 / (d)	2 / 2	-	-	-	-	-	-	-	-	-	-	-	-
1985		21 / 18	2 / 2	-	-	-	-	-	-	-	-	-	-	-	-
1986		12 / 12	2 / 2	-	-	-	-	-	-	-	-	-	-	-	-
1987		5 / 5	2 / 0	-	3 / 3	0 / 1	-	-	-	-	-	-	-	-	-
1988		5 / 3	-	2 / 0	4 / 6	-	-	-	-	-	-	-	-	-	-
1989		-	-	1 / 1	5 / 6	-	-	-	-	-	-	-	-	-	-
1990		-	-	1 / 0	5 / 13	-	0 / 1	-	-	-	-	-	-	-	-

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TABLE 20. Region VIII Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO2			
		a SLAMS	b NAMS	c SPM	a SLAMS	b NAMS	c SPM	a SLAMS	b NAMS	c SPM	a continuous	b bubbler	c NAMS SPM	
UT	1983	5 / 5 <sup>c</sup>	8 / 8	-	-	-	-	3 / 3 <sup>c</sup>	2 / 2	-	4 / 4	-	2 / 2	-
	1984	6 / (d)	8 / 8	-	-	-	-	3 / (d)	2 / 2	-	5 / (d)	-	2 / 2	-
	1985	7 / 6	8 / 8	-	-	-	-	3 / 3	2 / 2	-	4 / 2	-	2 / 2	-
	1986	6 / 6	8 / 8	-	-	c	-	3 / 3	2 / 2	-	2 / 3	-	1 / 2	-
	1987	4 / 4	8 / 0	-	9 / 4	0 / 8	-	1 / 1	2 / 2	-	3 / 3	-	2 / 2	-
	1988	5 / 0	-	-	3 / 3	7 / 7	3 / 3	1 / 1	2 / 2	-	3 / 3	-	2 / 2	-
	1989	-	-	-	4 / 4	7 / 7	8 / 8	1 / 1	2 / 2	-	3 / 3	-	2 / 2	-
	1990	-	-	-	3 / 4	7 / 7	3 / 4	1 / 1	2 / 2	-	3 / 3	-	2 / 2	-
WY	1983	12 / 12	1 / 1	-	-	-	-	-	-	-	-	-	-	-
	1984	11 / (d)	1 / 1	-	-	-	-	-	-	-	-	-	-	-
	1985	8 / 8	1 / 1	-	-	-	-	-	-	-	-	-	-	-
	1986	7 / 7	1 / 1	-	-	-	-	-	-	-	-	-	-	-
	1987	7 / 7	1 / 0	-	5 / 5	-	-	-	-	-	-	-	-	-
	1988	7 / 7	-	-	8 / 8	-	-	-	-	-	-	-	-	-
	1989	7 / 7	-	-	4 / 4	-	5 / 5	-	-	-	-	-	-	-
	1990	7 / 7	-	-	3 / 4	-	5 / 5	-	-	-	-	-	-	-
Regional Total	1983	112 / 112	26 / 26	-	-	-	-	13 / 13	4 / 4	-	9 / 9	-	5 / 5	-
	1984	140 / (d)	26 / 26	-	-	-	-	15 / (d)	4 / 4	-	13 / (d)	-	5 / 5	-
	1985	117 / 112	26 / 26	-	-	-	-	11 / 11	4 / 4	-	10 / 9	-	5 / 5	-
	1986	112 / 95	26 / 26	-	-	-	-	14 / 14	4 / 4	-	9 / 11	-	4 / 5	-
	1987	44 / 36	23 / 0	-	54 / 56	0 / 18	-	4 / 4	4 / 4	-	11 / 11	-	5 / 5	-
	1988	41 / 32	-	6 / 4	63 / 67	15 / 16	5 / 5	7 / 7	4 / 4	-	11 / 11	-	4 / 4	4 / 4
	1989	27 / 28	-	17 / 13	63 / 63	16 / 16	19 / 17	6 / 6	4 / 4	1 / 1	11 / 11	-	4 / 4	17 / 17
	1990	25 / 23	-	8 / 9	57 / 71	16 / 16	16 / 18	10 / 10	4 / 4	3 / 2	10 / 10	-	4 / 4	17 / 17
Grand Total	1983		138 / 138						17 / 17			14 / 14		
	1984		166 / (d)						19 / (d)			18 / (d)		
(SLAMS +	1985		143 / 138						15 / 15			15 / 14		
NAMS +	1986		138 / 121						18 / 18			13 / 16		
SPM)	1987		67 / 36			54 / 74			8 / 8			16 / 16		
	1988		47 / 36			83 / 88			11 / 11			19 / 19		
	1989		44 / 41			88 / 96			11 / 11			32 / 32		
	1990		33 / 32			89 / 105			17 / 16			31 / 31		

a. Number of SLAMS monitors excluding NAMS.  
 b. Number of monitors operating/required.  
 c. Number of monitors operating in current year/planned during next year.  
 d. Not available.

TABLE 20. Region VIII Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals	
		a	b	c	a	b	c	a	b	c	a	b	c		
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubbler	SPM	SLAMS	NAMS	SPM		
CO	1983	11 / 11	2 / 2	-	7 / 7	4 / 4	-	2 / 2	-	2 / 2	-	73 / 73	24 / 24	-	97 / 97
	1984	11 / (d)	2 / 2	-	7 / (d)	4 / 4	-	1 / (d)	-	2 / 2	-	84 / 69	24 / 24	-	108 / 93
	1985	11 / 10	2 / 2	-	7 / 7	4 / 4	-	1 / 1	-	2 / 2	-	67 / 66	24 / 24	-	81 / 80
	1986	10 / 10	2 / 2	-	7 / 7	4 / 4	-	1 / 1	-	2 / 2	-	77 / 63	24 / 24	-	101 / 87
	1987	10 / 10	2 / 2	-	7 / 7	4 / 4	-	1 / 1	-	2 / 2	-	50 / 52	21 / 20	-	71 / 72
	1988	10 / 10	2 / 2	-	7 / 7	4 / 4	-	1 / 1	-	2 / 2	-	59 / 58	19 / 20	3 / 3	81 / 81
	1989	11 / 11	2 / 2	-	7 / 7	4 / 4	-	1 / 1	-	2 / 2	-	64 / 54	20 / 20	12 / 12	86 / 86
	1990	11 / 13	2 / 2	-	7 / 7	4 / 4	-	1 / 1	-	2 / 2	-	60 / 64	20 / 20	10 / 11	90 / 95
	MT	1983	2 / 2	-	-	-	-	-	-	-	-	-	16 / 16	3 / 3	-
1984		3 / (d)	-	-	-	-	-	-	-	-	-	39 / 36	3 / 3	-	42 / 39
1985		4 / 4	-	-	-	-	-	-	-	-	-	42 / 42	3 / 3	-	45 / 45
1986		3 / 3	-	-	-	-	-	-	-	-	-	34 / 34	3 / 3	-	37 / 37
1987		3 / 5	-	-	-	-	-	-	-	-	-	34 / 33	3 / 1	-	37 / 34
1988		4 / 4	-	-	-	-	1 / 1	-	-	-	-	39 / 40	-	7 / 7	46 / 47
1989		4 / 4	-	-	-	-	1 / 0	-	-	-	4 / 4	32 / 42	-	34 / 26	66 / 68
1990		4 / 5	-	-	-	-	-	-	-	5 / 5	-	34 / 35	-	27 / 27	61 / 62
ND	1983	-	-	-	2 / 2	-	-	2 / 2	-	-	-	26 / 26	1 / 1	-	27 / 27
	1984	-	-	-	2 / (d)	-	-	2 / (d)	-	-	-	24 / 24	1 / 1	-	25 / 25
	1985	-	-	-	2 / 3	-	-	2 / 3	-	-	-	23 / 25	1 / 1	-	24 / 26
	1986	-	-	-	2 / 3	-	-	2 / 3	-	-	-	19 / 19	1 / 1	-	20 / 20
	1987	-	-	-	2 / 2	-	-	2 / 2	-	-	-	17 / 17	1 / 1	-	18 / 18
	1988	-	-	-	3 / 3	-	-	4 / 4	-	-	-	17 / 17	1 / 1	1 / 1	19 / 19
	1989	-	-	-	3 / 3	-	-	4 / 4	-	-	-	17 / 17	1 / 1	1 / 2	19 / 20
	1990	-	-	1 / 1	3 / 3	-	-	2 / 2	-	-	2 / 2	14 / 14	1 / 1	6 / 6	21 / 21
SD	1983	-	-	-	-	-	-	-	-	-	-	21 / 21	2 / 2	-	23 / 23
	1984	-	-	-	-	-	-	-	-	-	-	22 / 22	2 / 2	-	24 / 24
	1985	-	-	-	-	-	-	-	-	-	-	21 / 18	2 / 2	-	23 / 20
	1986	-	-	-	-	-	-	-	-	-	-	12 / 12	2 / 2	-	14 / 14
	1987	-	-	-	-	-	-	-	-	-	-	8 / 8	2 / 1	-	10 / 9
	1988	-	-	-	-	-	-	-	-	-	-	9 / 9	-	2 / 0	11 / 9
	1989	-	-	0 / 1	-	-	-	-	-	-	-	5 / 6	-	1 / 2	6 / 8
	1990	-	-	-	-	-	-	-	-	-	-	5 / 13	-	1 / 1	6 / 14

TABLE 20. Region VIII Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals
		a	b	c	a	b	c	a	b	c	a	b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubbler	SPM	SLAMS	NAMS	SPM	
UT	1983	7 / 7	2 / 2	-	4 / 4	2 / 2	-	3 / 3	-	-	26 / 26	16 / 16	-	42 / 42
	1984	6 / (d)	2 / 2	-	3 / (d)	2 / 2	-	3 / (d)	-	-	26 / 26	16 / 16	-	42 / 42
	1985	6 / 6	2 / 2	-	4 / 3	2 / 2	-	3 / 3	-	-	27 / 23	16 / 16	-	43 / 39
	1986	6 / 6	2 / 2	-	3 / 3	2 / 2	-	3 / 3	-	-	23 / 24	15 / 16	-	38 / 40
	1987	5 / 5	2 / 2	-	3 / 3	2 / 2	-	3 / 3	-	-	28 / 23	16 / 16	-	44 / 39
	1988	6 / 6	2 / 2	-	3 / 3	2 / 4	-	3 / 3	-	-	24 / 19	15 / 17	3 / 3	42 / 39
	1989	5 / 5	2 / 2	-	3 / 3	2 / 4	-	3 / 3	-	1 / 1	19 / 19	15 / 17	7 / 7	41 / 43
	1990	5 / 6	2 / 2	1 / 1	3 / 3	2 / 4	-	3 / 3	-	1 / 1	18 / 20	15 / 17	5 / 6	38 / 43
	WY	1983	-	-	-	-	-	-	-	-	-	12 / 12	1 / 1	-
1984		-	-	-	-	-	-	-	-	-	11 / 11	1 / 1	-	12 / 12
1985		-	-	-	-	-	-	-	-	-	8 / 8	1 / 1	-	9 / 9
1986		-	-	-	-	-	-	-	-	-	7 / 7	1 / 1	-	8 / 8
1987		-	-	-	-	-	-	-	-	-	12 / 12	1 / 0	-	13 / 12
1988		-	-	-	-	-	-	-	-	-	15 / 15	-	-	15 / 15
1989		-	-	-	-	-	-	-	-	-	11 / 11	-	5 / 5	16 / 16
1990		-	-	-	-	-	-	-	-	-	10 / 11	-	5 / 5	15 / 16
Regional		1983	20 / 20	4 / 4	-	13 / 13	6 / 6	-	7 / 7	-	2 / 2	174 / 174	47 / 47	-
Total	1984	20 / (d)	4 / 4	-	12 / (d)	6 / 6	-	6 / (d)	-	2 / 2	206 / 188	47 / 47	-	253 / 235
	1985	21 / 20	4 / 4	-	13 / 13	6 / 6	-	6 / 7	-	2 / 2	178 / 172	47 / 47	-	225 / 219
	1986	19 / 19	4 / 4	-	12 / 13	6 / 6	-	6 / 7	-	2 / 2	172 / 159	46 / 47	-	218 / 206
	1987	18 / 20	4 / 4	-	12 / 12	6 / 6	-	6 / 6	-	2 / 2	149 / 145	44 / 39	-	193 / 184
	1988	20 / 20	4 / 4	-	13 / 13	6 / 8	1 / 1	8 / 8	-	2 / 2	163 / 158	35 / 38	16 / 14	214 / 210
	1989	20 / 20	4 / 4	0 / 1	13 / 13	6 / 8	1 / 0	8 / 8	-	2 / 2	138 / 140	38 / 38	60 / 54	234 / 241
	1990	20 / 24	4 / 4	2 / 2	13 / 13	6 / 8	0 / 0	6 / 6	-	2 / 2	141 / 157	36 / 38	64 / 56	231 / 251
Grand	1983		24 / 24			19 / 19			9 / 9			221 / 221		
Total	1984		24 / (d)			18 / (d)			8 / (d)			253 / 235		
(SLAMS +	1985		25 / 24			19 / 19			8 / 9			225 / 219		
NAMS +	1986		23 / 23			18 / 18			8 / 9			218 / 206		
SPM)	1987		22 / 24			18 / 18			8 / 8			193 / 184		
	1988		24 / 24			20 / 22			10 / 10			214 / 210		
	1989		24 / 25			20 / 21			15 / 15			234 / 241		
	1990		26 / 30			19 / 21			16 / 16			231 / 251		

a. Number of SLAMS monitors excluding NAMS.  
 b. Number of monitors operating/required.  
 c. Number of monitors operating in current year/planned during next year.  
 d. Not available.

TABLE 21. Region IX Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO <sub>2</sub>			
		a		b	c	a		b	c	a		b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SLAMS bubbler	NAMS	SPM
AZ	1983	33 / 35	9 / 9	-	-	-	-	14 / 14	2 / 2	-	11 / 11	-	2 / 2	-
	1984	32 / (d)	9 / 9	-	-	-	-	19 / (d)	2 / 2	-	8 / (d)	-	2 / 2	-
	1985	30 / 30	9 / 9	-	-	-	-	17 / 17	2 / 2	-	7 / 7	-	2 / 2	-
	1986	27 / 27	8 / 8	-	-	c	-	7 / 7	2 / 2	-	7 / 7	-	1 / 1	-
	1987	27 / 14	8 / 0	-	22 / 19	0 / 7	-	7 / 7	2 / 2	-	7 / 6	-	2 / 2	-
	1988	-	-	-	13 / 13	7 / 8	-	3 / 3	2 / 2	-	6 / 6	-	2 / 2	-
	1989	-	-	-	12 / 13	7 / 8	-	2 / 3	2 / 2	-	6 / 4	-	1 / 1	-
	1990	-	-	5 / 5	18 / 18	8 / 8	-	2 / 2	2 / 2	-	4 / 4	-	1 / 1	-
	CA	1983	75 / 75	46 / 46	-	-	-	-	52 / 52	12 / 12	-	45 / 45	-	9 / 9
1984		75 / (d)	46 / 46	-	-	-	-	54 / (d)	12 / 12	-	44 / (d)	-	9 / 9	-
1985		68 / 68	45 / 45	-	-	-	-	58 / 58	12 / 12	-	47 / 47	-	10 / 10	-
1986		65 / 65	43 / 43	-	-	-	-	55 / 55	13 / 13	-	50 / 60	-	10 / 10	-
1987		65 / 123	41 / 0	-	94 / 71	0 / 23	-	33 / 33	12 / 13	-	44 / 44	-	8 / 10	-
1988		66 / 66	1 / 1	1 / 1	77 / 60	26 / 28	5 / 8	27 / 24	12 / 12	3 / 3	43 / 43	-	8 / 10	14 / 14
1989		66 / 66	1 / 1	1 / 1	79 / 63	27 / 28	10 / 10	31 / 29	12 / 12	2 / 2	43 / 43	-	12 / 12	12 / 14
1990		67 / 67	-	1 / 1	69 / 69	26 / 28	20 / 20	23 / 29	12 / 12	3 / 3	29 / 29	-	11 / 11	13 / 13
Guam		1983	4 / 4	-	-	-	-	-	-	-	-	-	4 / 4	-
	1984	4 / (d)	-	-	-	-	-	-	-	-	1 / (d)	3 / (d)	-	-
	1985	4 / 4	-	-	-	-	-	-	-	-	1 / 1	3 / 3	-	-
	1986	4 / 4	-	-	-	-	-	-	-	-	1 / 1	3 / 3	-	-
	1987	4 / 4	-	-	0 / 4	-	-	-	-	-	1 / 1	3 / 3	-	-
	1988	-	-	-	4 / 4	-	-	-	-	-	2 / 2	3 / 3	-	-
	1989	-	-	-	4 / 4	-	-	-	-	-	2 / 2	3 / 3	-	-
	1990	-	-	-	4 / 4	-	-	-	-	-	2 / 2	-	-	-
	HI	1983	9 / 9	2 / 2	-	-	-	-	-	-	-	-	8 / 8	-
1984		9 / (d)	2 / 2	-	-	-	-	-	-	-	-	4 / (d)	-	-
1985		2 / 2	2 / 2	-	-	-	-	-	-	-	-	3 / 3	-	-
1986		2 / 2	3 / 3	-	-	-	-	-	2 / 2	-	-	3 / 3	-	-
1987		1 / 4	3 / 0	-	6 / 4	0 / 2	-	-	2 / 2	-	1 / 1	2 / 2	-	-
1988		3 / 3	-	-	4 / 4	2 / 2	-	-	2 / 2	-	1 / 1	2 / 2	-	-
1989		3 / 3	-	-	4 / 4	2 / 2	-	-	2 / 2	-	1 / 1	2 / 2	-	-
1990		3 / 3	-	-	4 / 4	2 / 2	-	-	2 / 2	-	1 / 1	2 / 2	-	-



TABLE 21. Region IX Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

(continued)

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO <sub>2</sub>			
		a	b	c	a	b	c	a	b	c	a		b	c
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	bubbler	NAMS	SPM
NV	1983	33 / 35	5 / 5	-	-	-	-	-	-	-	1 / 1	-	-	-
	1984	30 / (d)	5 / 5	-	-	-	-	-	-	-	-	-	-	-
	1985	28 / 28	5 / 5	-	-	-	-	-	-	-	-	-	-	-
	1986	14 / 14	5 / 5	-	-	-	-	-	-	-	-	-	-	-
	1987	14 / 5	5 / 0	-	7 / 5	0 / 4	-	-	-	-	-	-	-	-
	1988	9 / 9	-	1 / 1	7 / 7	5 / 5	2 / 2	-	-	-	-	-	-	-
	1989	6 / 7	-	1 / 1	7 / 6	5 / 5	2 / 2	-	-	-	-	-	-	-
	1990	5 / 5	-	1 / 1	7 / 7	5 / 5	2 / 2	-	-	-	-	-	-	-
	Regional Total	1983	154 / 158	62 / 62	-	-	-	-	66 / 66	14 / 14	-	57 / 57	12 / 12	11 / 11
1984		150 / (d)	62 / 62	-	-	-	-	73 / (d)	14 / 14	-	53 / (d)	7 / (d)	11 / 11	-
1985		152 / 152	61 / 61	-	-	-	-	75 / 75	14 / 14	-	55 / 55	6 / 6	12 / 12	-
1986		132 / 132	59 / 59	-	-	-	-	62 / 62	17 / 17	-	58 / 58	6 / 6	11 / 11	-
1987		131 / 150	57 / 0	-	129 / 104	0 / 36	-	40 / 40	16 / 17	-	53 / 52	5 / 5	10 / 12	-
1988		78 / 78	1 / 1	2 / 2	105 / 108	40 / 43	7 / 8	30 / 27	16 / 16	3 / 3	52 / 52	5 / 5	10 / 12	14 / 14
1989		75 / 76	1 / 1	2 / 2	106 / 110	41 / 43	12 / 12	33 / 32	16 / 16	2 / 2	52 / 50	5 / 5	13 / 13	12 / 14
1990		75 / 75	0 / 0	7 / 7	122 / 122	41 / 43	22 / 22	25 / 31	16 / 16	3 / 3	36 / 36	2 / 2	12 / 12	13 / 13
Grand Total (SLAMS + NAMS + SPM)		1983		215 / 220									60 / 60	
	1984		212 / (d)									71 / (d)		
	1985		213 / 213									73 / 73		
	1986		191 / 191									75 / 75		
	1987		188 / 150		129 / 140							68 / 69		
	1988		81 / 81		152 / 159							81 / 83		
	1989		78 / 79		159 / 165							82 / 82		
	1990		82 / 82		185 / 187							63 / 63		

- a. Number of SLAMS monitors excluding NAMS.
- b. Number of monitors operating/required.
- c. Number of monitors operating in current year/planned during next year.
- d. Not available.

TABLE 21. Region IX Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals	
		a	b	c	a	b	c	a	b	c	a	b	c		
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	continuous	bubbler	NAMS	SPM	SLAMS	NAMS		SPM
AZ	1983	11 / 11	4 / 4	-	12 / 12	4 / 4	-	2 / 2	-	2 / 2	-	63 / 65	23 / 23	-	106 / 108
	1984	11 / (d)	4 / 4	-	12 / (d)	4 / 4	-	2 / (d)	-	2 / 2	-	64 / 65	23 / 23	-	107 / 108
	1985	11 / 11	4 / 4	-	12 / 12	4 / 4	-	2 / 2	-	2 / 2	-	79 / 79	23 / 23	-	102 / 102
	1986	10 / 10	4 / 4	-	10 / 10	4 / 4	-	1 / 1	-	2 / 2	-	62 / 62	21 / 21	-	83 / 83
	1987	9 / 9	4 / 4	-	9 / 9	3 / 4	-	1 / 1	-	2 / 2	-	62 / 65	21 / 21	-	103 / 86
	1988	10 / 12	4 / 4	-	10 / 11	3 / 4	-	1 / 1	-	2 / 2	-	43 / 46	20 / 22	-	63 / 66
	1989	10 / 12	4 / 4	-	11 / 11	4 / 4	-	1 / 1	-	2 / 2	-	42 / 44	20 / 21	-	62 / 65
	1990	10 / 11	4 / 4	2 / 2	10 / 10	4 / 4	4 / 4	3 / 3	-	2 / 2	1 / 1	47 / 48	21 / 21	12 / 12	80 / 81
CA	1983	62 / 62	12 / 12	-	101 / 101	19 / 19	-	58 / 58	-	10 / 10	-	393 / 393	108 / 108	-	501 / 501
	1984	57 / (d)	12 / 12	-	97 / (d)	19 / 19	-	57 / (d)	-	10 / 10	-	384 / 385	108 / 108	-	492 / 493
	1985	63 / 63	12 / 12	-	105 / 105	19 / 19	-	63 / 63	-	10 / 10	-	424 / 424	108 / 108	-	532 / 532
	1986	66 / 66	12 / 12	-	100 / 100	19 / 19	-	64 / 64	-	11 / 11	-	420 / 420	108 / 108	-	529 / 528
	1987	65 / 65	12 / 12	-	100 / 100	17 / 19	-	62 / 62	-	10 / 11	-	483 / 498	100 / 88	-	583 / 586
	1988	65 / 64	10 / 12	13 / 13	102 / 102	17 / 19	20 / 20	63 / 62	-	10 / 10	10 / 10	443 / 441	84 / 92	66 / 67	593 / 600
	1989	68 / 68	12 / 12	8 / 14	108 / 110	19 / 19	24 / 25	64 / 64	-	10 / 10	9 / 9	459 / 463	93 / 94	66 / 75	618 / 632
	1990	67 / 67	12 / 12	10 / 10	101 / 101	18 / 19	44 / 43	67 / 67	-	10 / 10	23 / 23	443 / 449	89 / 92	114 / 113	646 / 654
Guam	1983	-	-	-	-	-	-	-	-	-	-	8 / 8	-	-	8 / 8
	1984	-	-	-	-	-	-	-	-	-	-	8 / 8	-	-	8 / 8
	1985	-	-	-	-	-	-	-	-	-	-	8 / 8	-	-	8 / 8
	1986	-	-	-	-	-	-	-	-	-	-	8 / 8	-	-	8 / 8
	1987	-	-	-	-	-	-	-	-	-	-	8 / 12	-	-	8 / 12
	1988	-	-	-	-	-	-	-	-	-	-	9 / 9	-	-	9 / 9
	1989	-	-	-	-	-	-	-	-	-	-	9 / 9	-	-	9 / 9
	1990	-	-	-	-	-	-	-	-	-	-	6 / 6	-	-	6 / 6
HI	1983	-	1 / 2	-	-	1 / 1	-	1 / 1	-	-	-	18 / 18	4 / 5	-	22 / 23
	1984	-	2 / 2	-	-	1 / 1	-	-	-	-	-	13 / 13	5 / 5	-	18 / 18
	1985	1 / 1	2 / 2	-	-	1 / 1	-	1 / 1	-	-	-	7 / 7	5 / 5	-	12 / 12
	1986	-	2 / 2	-	-	1 / 1	-	1 / 1	-	-	-	6 / 6	8 / 8	-	14 / 14
	1987	-	2 / 2	-	-	1 / 1	-	1 / 1	-	-	-	11 / 12	8 / 7	-	19 / 19
	1988	-	2 / 2	-	-	1 / 1	-	1 / 1	-	-	-	11 / 11	7 / 7	-	18 / 18
	1989	-	2 / 2	-	-	1 / 1	-	1 / 1	-	-	-	11 / 11	7 / 7	-	18 / 18
	1990	-	2 / 2	-	-	1 / 1	-	1 / 1	-	-	-	11 / 11	7 / 7	-	18 / 18

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TABLE 21. Region IX Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990  
(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals	
		a	b	c	a	b	c	a	b	c	a	b	c		
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SLAMS bubbler	NAMS	SPM	SLAMS	NAMS		SPM
NV	1983	5 / 5 <sup>c</sup>	2 / 2	-	3 / 3 <sup>c</sup>	4 / 4	-	5 / 5 <sup>c</sup>	-	-	-	47 / 49	11 / 11	-	58 / 60
	1984	5 / (d)	2 / 2	-	2 / (d)	4 / 4	-	2 / (d)	-	-	-	39 / 39	11 / 11	-	50 / 50
	1985	4 / 4	2 / 2	-	2 / 2	4 / 4	-	3 / 3	-	-	-	37 / 37	11 / 11	-	48 / 48
	1986	4 / 4	2 / 2	-	2 / 2	5 / 5	-	3 / 3	-	-	-	23 / 23	12 / 12	-	35 / 35
	1987	4 / 6	2 / 2	-	3 / 3	4 / 4	-	2 / 2	-	-	-	30 / 22	11 / 10	-	41 / 32
	1988	6 / 7	2 / 2	-	4 / 4	4 / 4	-	2 / 2	-	-	-	28 / 29	11 / 11	3 / 3	42 / 43
	1989	8 / 7	2 / 2	2 / 2	4 / 4	4 / 4	2 / 2	2 / 2	-	-	-	27 / 26	11 / 11	7 / 7	45 / 44
	1990	8 / 7	2 / 2	2 / 2	4 / 4	4 / 4	2 / 2	4 / 4	-	-	2 / 2	28 / 27	11 / 11	9 / 9	48 / 47
Regional Total	1983	78 / 78	19 / 20	-	116 / 116	28 / 28	-	66 / 66	-	12 / 12	-	549 / 553	146 / 147	-	695 / 700
	1984	73 / (d)	20 / 20	-	111 / (d)	28 / 28	-	61 / (d)	-	12 / 12	-	528 / 530	147 / 147	-	675 / 677
	1985	79 / 79	20 / 20	-	119 / 119	28 / 28	-	69 / 69	-	12 / 12	-	555 / 555	147 / 147	-	702 / 702
	1986	80 / 80	20 / 20	-	112 / 112	29 / 29	-	69 / 69	-	13 / 13	-	519 / 519	149 / 149	-	668 / 668
	1987	78 / 80	20 / 20	-	112 / 112	25 / 28	-	66 / 66	-	12 / 13	-	614 / 609	140 / 128	-	754 / 735
	1988	81 / 83	18 / 20	13 / 13	116 / 117	25 / 28	20 / 20	67 / 66	-	12 / 12	10 / 10	634 / 636	122 / 132	69 / 70	725 / 738
	1989	88 / 87	20 / 20	10 / 16	123 / 125	28 / 28	26 / 27	68 / 68	-	12 / 12	9 / 9	648 / 653	131 / 133	73 / 82	752 / 768
	1990	85 / 85	20 / 20	14 / 14	115 / 115	27 / 28	50 / 49	75 / 75	-	12 / 12	26 / 26	635 / 641	128 / 131	135 / 134	798 / 806
Grand Total	1983		97 / 98			144 / 144			78 / 78			695 / 700			
	1984		93 / (d)			139 / (d)			73 / (d)			675 / 677			
(SLAMS +	1985		99 / 99			147 / 147			81 / 81			702 / 702			
NAMS +	1986		100 / 100			141 / 141			82 / 82			668 / 668			
SPM)	1987		98 / 100			137 / 140			78 / 79			754 / 735			
	1988		112 / 116			161 / 165			89 / 88			725 / 738			
	1989		116 / 123			177 / 180			89 / 89			752 / 768			
	1990		119 / 119			192 / 192			113 / 113			798 / 806			

a. Number of SLAMS monitors excluding NAMS.  
 b. Number of monitors operating/required.  
 c. Number of monitors operating in current year/planned during next year.  
 d. Not available.

TABLE 22. Region X Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO <sub>2</sub>			
		a	b	c	a	b	c	a	b	c	a	b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	SLAMS bubbler	NAMS	SPM
AK	1983	10 / 10 <sup>c</sup>	3 / 3	-	-	-	-	2 / 2 <sup>c</sup>	-	-	-	-	-	-
	1984	11 / (d)	3 / 3	-	-	-	-	1 / (d)	-	-	-	-	-	-
	1985	12 / 12	3 / 3	-	-	-	-	2 / 2	-	-	-	-	-	-
	1986	11 / 11	3 / 3	-	-	-	-	2 / 2	-	-	-	-	-	-
	1987	10 / 4	4 / 0	-	12 / 11	0 / 2	-	2 / 2	-	-	-	-	-	-
	1988	-	-	10 / 10	10 / 11	1 / 1	-	1 / 0	-	-	-	-	-	2 / 2
	1989	-	-	-	14 / 14	1 / 1	-	-	-	-	2 / 2	-	-	-
	1990	-	-	1 / 1	13 / 13	1 / 1	1 / 1	-	-	-	2 / 2	-	-	-
	ID	1983	16 / 16	2 / 2	-	-	-	-	5 / 5	-	-	3 / 3	-	-
1984		16 / (d)	2 / 2	-	-	-	-	5 / (d)	-	-	1 / (d)	-	-	-
1985		18 / 18	2 / 2	-	-	-	-	5 / 5	-	-	3 / 3	-	-	-
1986		17 / 17	2 / 2	-	-	-	-	4 / 4	-	-	2 / 2	-	-	-
1987		19 / 2	2 / 0	-	13 / 12	0 / 1	-	4 / 4	-	-	2 / 2	-	-	-
1988		21 / 0	-	-	11 / 12	2 / 2	-	4 / 4	-	-	2 / 2	-	-	1 / 1
1989		8 / 8	-	-	8 / 8	2 / 2	-	2 / 2	-	-	2 / 2	-	-	1 / 1
1990		6 / 6	-	-	5 / 5	2 / 2	-	2 / 2	-	-	-	-	-	-
OR		1983	27 / 27	9 / 9	-	-	-	-	-	2 / 2 <sup>c</sup>	-	1 / 1	-	2 / 2
	1984	25 / (d)	9 / 9	-	-	-	-	11 / (d)	2 / 2	-	1 / (d)	-	2 / 2	-
	1985	21 / 21	9 / 9	-	-	-	-	11 / 11	2 / 2	-	-	-	2 / 2	-
	1986	21 / 21	9 / 9	-	-	-	-	11 / 11	2 / 2	-	-	-	1 / 1	-
	1987	13 / 2	9 / 0	-	22 / 16	0 / 6	-	5 / 3	2 / 2	-	-	-	1 / 1	-
	1988	8 / 0	-	6 / 6	16 / 19	4 / 5	-	10 / 3	2 / 2	-	-	-	1 / 1	-1 / 1
	1989	5 / 5	-	2 / 2	16 / 16	4 / 4	-	4 / 4	2 / 2	3 / 3	-	-	1 / 1	1 / 1
	1990	-	-	7 / 7	11 / 11	2 / 3	11 / 11	3 / 3	2 / 2	1 / 1	-	-	1 / 1	-

TABLE 22. Region X Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

(continued)

Mar 1991

State	Year Ending Dec 31	TSP			PM-10			Pb			SO <sub>2</sub>			
		a	b	c	a	b	c	a	b	c	a	b	c	
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	bubbler	NAMS	SPM
WA	1983	23 / 23 <sup>c</sup>	13 / 13	-	-	-	-	7 / 7 <sup>c</sup>	2 / 2	-	8 / 8 <sup>c</sup>	-	3 / 3	-
	1984	23 / (d)	13 / 13	-	-	-	-	7 / (d)	2 / 2	-	8 / (d)	-	3 / 3	-
	1985	27 / 27	13 / 13	-	-	-	-	7 / 7	2 / 2	-	7 / 7	-	3 / 3	-
	1986	33 / 33	13 / 13	-	-	-	-	5 / 5 <sup>c</sup>	2 / 2	-	6 / 6	-	3 / 3	-
	1987	65 / 37	10 / 0	-	22 / 16	0 / 7	-	7 / 7	2 / 2	-	13 / 13	-	2 / 2	-
	1988	71 / 37	-	1 / 1	13 / 17	13 / 13	-	6 / 6	2 / 2	-	11 / 11	-	3 / 3	-
	1989	28 / 15	-	1 / 1	17 / 17	13 / 13	-	2 / 2	2 / 2	-	7 / 7	-	3 / 3	3 / 0
	1990	10 / 10	-	-	17 / 17	12 / 13	8 / 8	1 / 1	1 / 2	-	8 / 8	-	3 / 3	2 / 2
Regional Total	1983	76 / 76	27 / 27	-	-	-	-	14 / 14	4 / 4	-	12 / 12	-	5 / 5	-
	1984	75 / (d)	27 / 27	-	-	-	-	24 / (d)	4 / 4	-	10 / (d)	-	5 / 5	-
	1985	78 / 78	27 / 27	-	-	-	-	25 / 25	4 / 4	-	10 / 10	-	5 / 5	-
	1986	82 / 82	27 / 27	-	-	-	-	22 / 22	4 / 4	-	8 / 8	-	4 / 4	-
	1987	107 / 45	25 / 0	-	69 / 55	0 / 16	-	18 / 16	4 / 4	-	15 / 15	-	3 / 3	-
	1988	100 / 37	-	17 / 17	50 / 59	20 / 21	-	21 / 13	4 / 4	-	13 / ERR	-	4 / 4	4 / 4
	1989	41 / 28	-	3 / 3	55 / 55	20 / 20	-	8 / 6	4 / 4	3 / 3	11 / 11	-	4 / 4	5 / 2
	1990	16 / 16	-	8 / 8	46 / 46	17 / 19	18 / 18	6 / 6	3 / 4	1 / 1	10 / 10	-	4 / 4	2 / 2
Grand Total	1983		103 / 103									17 / 17		
	1984		102 / (d)									15 / (d)		
	1985		105 / 105									15 / 15		
	1986		109 / 109									12 / 12		
	1987		132 / 45		69 / 71							18 / 18		
	1988		117 / 54		70 / 80							21 / ERR		
	1989		44 / 31		75 / 75							20 / 17		
	1990		24 / 24		81 / 83							16 / 16		

a. Number of SLAMS monitors excluding NAMS.

b. Number of monitors operating/required.

c. Number of monitors operating in current year/planned during next year.

d. Not available.

TABLE 22. Region X Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals	
		a	b	c	a	b	c	a	b	c	a	b	c		
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	NAMS bubbler	SPM	SLAMS	NAMS	SPM		
AK	1983	5 / 5 <sup>c</sup>	-	-	-	-	-	-	-	-	17 / 17	3 / 3	-	20 / 20	
	1984	5 / (d)	-	-	-	-	-	-	-	-	17 / 17	3 / 3	-	20 / 20	
	1985	6 / 6	-	-	-	-	-	-	-	-	20 / 20	3 / 3	-	23 / 23	
	1986	6 / 6	-	-	-	-	-	-	-	-	19 / 19	3 / 3	-	22 / 22	
	1987	8 / 8	-	-	-	-	-	-	-	-	32 / 25	4 / 2	-	36 / 27	
	1988	7 / 7	-	1 / 1	-	-	-	-	c	-	-	18 / 18	1 / 1	13 / 13	32 / 32
	1989	7 / 7	-	2 / 1	-	-	1 / 1	1 / 1	1 / 1	-	-	24 / 24	1 / 1	3 / 2	28 / 27
	1990	5 / 5	-	1 / 1	-	-	1 / 1	1 / 1	1 / 1	-	-	21 / 21	1 / 1	4 / 4	26 / 26
ID	1983	2 / 2	-	-	-	-	-	-	-	-	26 / 26	2 / 2	-	28 / 28	
	1984	2 / (d)	-	-	-	-	-	-	-	-	24 / 24	2 / 2	-	26 / 26	
	1985	2 / 2	-	-	-	-	-	-	-	-	28 / 28	2 / 2	-	30 / 30	
	1986	2 / 2	-	-	-	-	-	-	-	-	25 / 25	2 / 2	-	27 / 27	
	1987	2 / 2	-	-	-	0 / 1	-	-	-	-	40 / 22	2 / 2	-	42 / 24	
	1988	2 / 2	-	-	-	0 / 1	-	-	-	-	40 / 20	2 / 2	1 / 1	43 / 23	
	1989	1 / 2	-	-	-	-	1 / 1	-	-	-	21 / 22	2 / 2	2 / 2	25 / 26	
	1990	1 / 1	-	-	-	-	2 / 2	-	-	-	14 / 14	2 / 2	2 / 2	18 / 18	
OR	1983	5 / 5	2 / 2	-	3 / 3 <sup>c</sup>	2 / 2	-	1 / 1	-	-	37 / 37	17 / 17	-	54 / 54	
	1984	5 / (d)	2 / 2	-	3 / (d)	2 / 2	-	1 / (d)	-	-	46 / 46	17 / 17	-	63 / 63	
	1985	6 / 6	2 / 2	-	4 / 4	2 / 2	-	1 / 1	-	-	43 / 43	17 / 17	-	60 / 60	
	1986	6 / 6	2 / 2	-	4 / 4	2 / 2	-	1 / 1	-	-	43 / 43	16 / 16	-	59 / 59	
	1987	6 / 6	2 / 2	-	4 / 4	2 / 2	-	1 / 1	-	-	51 / 34	16 / 13	-	67 / 47	
	1988	7 / 7	1 / 2	6 / 6	3 / 4	2 / 2	4 / 4	1 / 1	-	-	45 / 34	10 / 14	17 / 17	72 / 65	
	1989	5 / 7	2 / 2	4 / 2	3 / 3	2 / 2	3 / 3	-	-	1 / 2	1 / 1	33 / 35	12 / 13	14 / 12	59 / 60
	1990	5 / 5	2 / 2	5 / 5	3 / 3	2 / 2	3 / 3	-	-	1 / 2	-	22 / 22	10 / 12	27 / 27	59 / 61

TABLE 22. Region X Summary of SLAMS, NAMS, and SPM by State and Pollutant, 1983-1990

(continued)

Mar 1991

State	Year Ending Dec 31	CO			O3			NO2			Subtotal			Totals	
		a	b	c	a	b	c	a	b	c	a	b	c		
		SLAMS	NAMS	SPM	SLAMS	NAMS	SPM	SLAMS continuous	bubbler	NAMS	SPM	SLAMS	NAMS		SPM
WA	1983	14 / 14 <sup>c</sup>	2 / 2	-	4 / 4 <sup>c</sup>	5 / 5	-	-	-	2 / 2	-	56 / 56	27 / 27	-	83 / 83
	1984	14 / (d)	2 / 2	-	4 / (d)	5 / 5	-	-	-	2 / 2	-	56 / 56	27 / 27	-	83 / 83
	1985	13 / 13	2 / 2	-	4 / 4	5 / 5	-	-	-	2 / 2	-	56 / 56	27 / 27	-	85 / 85
	1986	12 / 12	2 / 2	-	4 / 4	5 / 5	-	-	-	2 / 2	-	60 / 60	27 / 27	-	87 / 87
	1987	18 / 18	1 / 2	-	6 / 6	3 / 4	-	-	-	1 / 2	-	131 / 97	19 / 19	-	150 / 116
	1988	18 / 17	1 / 2	-	4 / 6	3 / 6	-	-	-	0 / 2	-	121 / 94	22 / 27	1 / 1	144 / 122
	1989	17 / 17	1 / 2	1 / 1	2 / 2	3 / 5	3 / 3	-	-	0 / 2	-	73 / 60	22 / 27	8 / 5	103 / 92
	1990	10 / 10	1 / 2	4 / 4	3 / 3	1 / 5	6 / 6	-	-	0 / 2	-	49 / 49	18 / 27	18 / 18	85 / 94
Regional Total	1983	26 / 26	4 / 4	-	7 / 7	7 / 7	-	1 / 1 <sup>c</sup>	-	2 / 2	-	136 / 136	49 / 49	-	185 / 185
	1984	26 / (d)	4 / 4	-	7 / (d)	7 / 7	-	1 / (d)	-	2 / 2	-	143 / 143	49 / 49	-	192 / 192
	1985	27 / 27	4 / 4	-	8 / 8	7 / 7	-	1 / 1	-	2 / 2	-	149 / 149	49 / 49	-	198 / 198
	1986	26 / 26	4 / 4	-	8 / 8	7 / 7	-	1 / 1	-	2 / 2	-	147 / 147	48 / 48	-	195 / 195
	1987	34 / 36	3 / 4	-	10 / 10	5 / 7	-	1 / 1	-	1 / 2	-	254 / 178	41 / 36	-	295 / 214
	1988	32 / 33	2 / 4	7 / 7	7 / 10	5 / 8	4 / 4	1 / 1	-	0 / 4	-	224 / 166	35 / 44	32 / 32	291 / 242
	1989	30 / 33	3 / 4	7 / 4	5 / 5	5 / 7	8 / 6	1 / 1	-	1 / 4	1 / 1	151 / 141	37 / 43	27 / 21	215 / 205
	1990	21 / 21	3 / 4	10 / 10	6 / 6	3 / 7	12 / 12	1 / 1	-	1 / 4	-	106 / 106	31 / 42	51 / 51	188 / 199
Grand Total	1983		30 / 30			14 / 14			3 / 3			185 / 185			
	1984		30 / (d)			14 / (d)			3 / (d)			192 / 192			
	1985		31 / 31			15 / 15			3 / 3			198 / 198			
	1986		30 / 30			15 / 15			3 / 3			195 / 195			
	1987		37 / 40			15 / 17			2 / 3			295 / 214			
	1988		41 / 44			16 / 22			1 / 5			291 / 242			
	1989		40 / 41			18 / 20			3 / 6			215 / 205			
	1990		34 / 35			21 / 25			2 / 5			188 / 199			

a. Number of SLAMS monitors excluding NAMS.  
 b. Number of monitors operating/required.  
 c. Number of monitors operating in current year/planned during next year.  
 d. Not available.