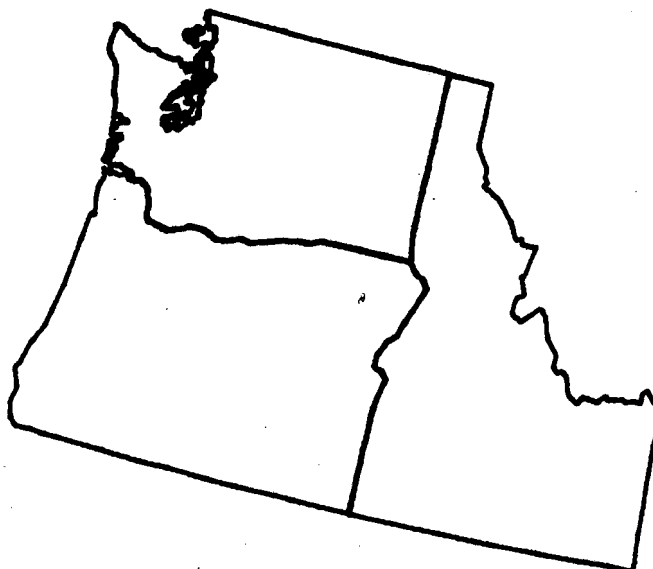
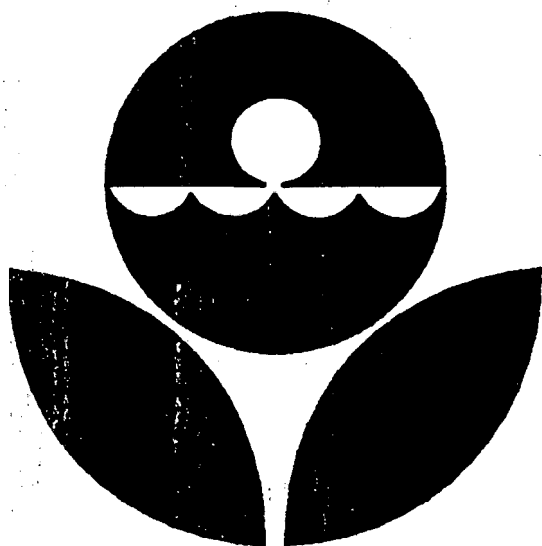
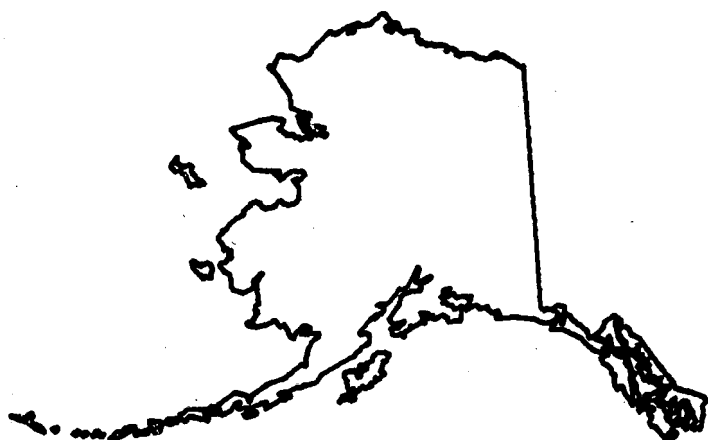


EPA/REGION 10
AIR QUALITY STATUS REPORT:
QUARTER 1 1990 (JANUARY 1 – MARCH 31, 1990)



**EPA REGION 10
AIR QUALITY STATUS REPORT: QUARTER 1 1990
(JANUARY 1 - MARCH 31, 1990)**

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99101**

October 1990

INTRODUCTION

This report is a brief summary of first quarter, 1990 criteria pollutant air quality data reported by each state in EPA/Region 10. The report is comprised of graphical displays highlighting air quality indicators for each pollutant by state coupled with a short narrative description of the graphics. The report also depicts: the timeliness and completeness of state air quality data submitted to the Region, denotes site changes in state air monitoring networks, and lists special air monitoring activities. The attainment status for selected pollutants is also presented by addressing two-to-three years of data. More complete trend analyses are presented in the "Annual Region 10 Air Quality Status and Analysis Report."

This report is written primarily for use by federal, state, and local officials concerned with air monitoring activities and air quality in Region 10.

STATUS OF STATE DATA SUBMITTALS

Figure 1 depicts the timeliness of air data submittals to EPA. State/EPA Agreement (SEA) guidelines require states to submit data to the AIRS system within 90 days of the end of the reporting quarter. The data must be completely updated and all problems resolved within 120 days. Figure 1 shows that all states in Region 10 except Idaho met the quarterly reporting requirements. Idaho has not completed its 1st quarter, 1990 as well as 3rd and 4th quarter, 1989 submissions.

Figure 2 displays average percentages of data recovery for each of the criteria pollutants composited on a state by state basis. Please note the following when interpreting the graph (note: site specific data recovery statistics are presented in separate graphics):

ALASKA - All pollutants, with the exception of NO₂ and SO₂, achieved the 75% data recovery goal (no monitoring occurred for ozone and lead). Temporary shut-down the Kenai NO₂ and SO₂ site (Bernice Lake) due to the eruptions of Mt. Redoubt caused the data completeness shortfall for these pollutants.

IDAHO - Idaho has not submitted any 1st quarter data to AIRS.

OREGON - Only CO and TSP achieved the 75% data recovery goal (no ozone monitoring occurred). Because several inactive SO₂, lead, PM₁₀ and TSP sites remain in the AIRS site listing (the statistics are based on all sites in AIRS), the data recovery statistics are biased low. This AIRS maintenance problem is in the process of being solved.

WASHINGTON - All of the pollutants, except ozone, achieved the 75% data recovery goal. Because ozone is not generally collected in 1st quarter per Washington's federally approved ozone monitoring season of April-October, the 1st quarter statistics for ozone are not germane to data completeness objectives.

Figure 3 displays statistics regarding submission of data for NAMS PM10 sites. These submittals are tracked to account for National EPA STARS commitments. Figure 3 shows that 1st quarter, 1990 NAMS PM10 submittals were timely and complete for Alaska, Oregon, and Washington. Again, Idaho did not submit any 1st quarter, 1990 data.

POLLUTANT STANDARD INDEX (PSI)

Description Figures 4 through 6C display pollutant standard index (PSI) readings for all standard metropolitan statistical areas (SMSA's) and selected cities in Region 10 with the exception of Idaho. PSI's are computed daily and simplify air quality readings for the public. The reading on a given day is computed from the pollutant which is highest with respect to it's air quality standard (e.g. if PM-10 and CO are monitored, the PSI reading might be driven by CO on one day and PM-10 on another day). Furthermore, although there are instances when two pollutants may exceed their respective NAAQS on the same day, the PSI will only reflect the pollutant with the highest PSI number. Categories are defined on the graphs. Readings of 50 or less mean that pollutant readings are well below standards. Readings of 51 to 99 indicate that readings are below, but are approaching air quality standards. Readings at or over 100 indicate that readings are at the level of or exceed primary air quality standards and are further categorized by the extent that they are over the standard. The primary NAAQS are summarized on Table 1.

Results Figures 4 through 6C show the number of days in each PSI category for 1st quarter, 1990. The following is a brief summary of the graphics on a state-by-state basis:

ALASKA - Figure 4 shows that air quality was unhealthful on eight days in Anchorage and on six days in Fairbanks. CO was the culprit on each of these days.

OREGON - Figures 5A and 5B show that ten unhealthful days were recorded in Klamath Falls and one unhealthy day was recorded in La Grande. PM10 was the responsible pollutant for each of these unhealthful days.

WASHINGTON - Figures 6A, 6B, and 6C reveal that air quality was unhealthful on five days in Spokane and on one day each in Kennewick, Everett and Vancouver. CO was the culprit on three days in Spokane and for the one day in both Everett and Vancouver. PM10 was the responsible pollutant on two days in Spokane and on the single day in Kennewick.

Table 1. Primary National Ambient Air Quality Standards (NAAQS)

Pollutant	Averaging Time	Primary NAAQS	'Effective' Primary NAAQS(1)
Carbon Monoxide	8 hours	9 ppm	9.5 ppm (B)
	1 hour	35 ppm	35.5 ppm (B)
Sulfur Dioxide	Annual	80 ug/m3	80 ug/m3 (A)
	24 hours	365 ug/m3	365 ug/m3 (B)
Ozone	1 hour	0.12 ppm	0.125 ppm (C)
Nitrogen Dioxide	Annual	0.053 ppm	0.053 ppm (A)
Particulate Matter (PM10)	Annual	50 ug/m3	50 ug/m3 (D)
	24 hours	150 ug/m3	155 ug/m3 (E)
Lead	Quarter	1.5 ug/m3	1.5 ug/m3 (A)

(1) The 'Effective' NAAQS reflects the regulatory rounding conventions.

(A) Never to be exceeded.

(B) Not to be exceeded more than once per year.

(C) Standard violated when expected number of days per year (averaged over the most recent 3 years) with a maximum hourly average above the standard is greater than one.

(D) Standard violated when expected annual arithmetic mean concentration is greater than the standard.

(E) Standard violated when expected number of days per year (averaged over the most recent 3 years) with a 24-hour concentration above the standard is greater than one.

AIR QUALITY STATUS

PM-10

Description Figures 7 through 9 display PM-10 statistics for all monitors in Region 10 for 1st quarter, 1990. Only data collected from reference samplers are displayed and no Federally approved exceptional events are reflected in the graphics. The graphics display the first, second, third, and fourth maxima for the quarter, the number of exceedances, and the percent of possible observations reported.

Results The following is a brief summary of the graphics on a state-by-state basis:

ALASKA - Figure 7 shows that the PM-10 standard was not exceeded at any of the sites.

IDAHO - No 1st quarter, 1990 data were reported for Idaho.

OREGON - Figure 8 shows that the PM-10 standard was exceeded at sites in Klamath Falls and La Grande. PM-10 levels in Klamath Falls exceeded the standard 9 times, with a maximum 24-hour value of 236 ug/m³. The maximum 24-hour value recorded at La Grande was 179 ug/m³.

WASHINGTON - Figure 9 shows that sites in Spokane and Kennewick exceeded the PM-10 standard.

CARBON MONOXIDE (CO)

Description Figures 10 through 12 display 1st quarter summary statistics for Region 10 CO sites. The figures display the highest and second highest non-overlapping 8-hour running average CO concentration for each site. The figures also display the total number of non-overlapping exceedances of the 8-hour standard and the percent of valid data relative to all possible observations for each site.

Results The following is a brief summary of the graphics on a state-by-state basis:

ALASKA - Figure 10 shows that sites in Anchorage and Fairbanks exceeded the CO standard. An 8-hour maximum value of 11.5 ppm was reported at the Seward & Benson site in Anchorage.

IDAHO - No 1st quarter, 1990 data was reported.

OREGON - Figure 11 shows that no sites in Oregon exceeded the standard in 1st quarter, 1990.

WASHINGTON - Figure 12 shows that the CO standard was exceeded in Everett and Spokane.

SULFUR DIOXIDE (SO2)

Description Figures 13 through 15 display SO₂ statistics for all monitors in Region 10. All graphs display the 24-hr block (midnight to midnight) maximum reading and second maximum reading as well as the total number of primary 24-hr standard exceedances recorded at each site. No quarterly data are displayed for Idaho because they have not submitted any data.

Results All of the graphs show that no monitors have exceeded the primary 24-hr SO₂ standard during 1st quarter, 1990.

LEAD

Description Figures 16 and 17 display the lead statistics for the Region for 1st quarter, 1990. The figures display the quarterly mean for 1st quarter, 1990 for Oregon and Washington respectively.

Results No lead sites are currently in operation in Alaska. Idaho did not report any data for 1st quarter, 1990. Data from all sites in both Oregon and Washington are well below lead standards.

OZONE

Because most ozone monitors operate only during the formal Region 10 ozone operating "season" (April-October), no ozone data are presented for 1st quarter, 1990.

NITROGEN DIOXIDE (NO2)

Although NO2 is monitored at a few locations (see monitor listings at the end of this report), NO2 standards have not been exceeded or threatened for a long time in Region 10. For this reason, no graphical displays of NO2 data have been produced.

METEOROLOGY

Description Figure 18 displays the percentage above or below the average number of heating degree days for selected cities in Region 10. Heating degree days for each city are calculated by subtracting the daily average temperature (deg. F) from 65 and summing these daily values over the quarter. The greater the number of heating degree days, the colder the temperatures were over the quarter. The percentage above or below the average number of heating degree days serves as a gross indicator of the meteorological effect on the total amount PM-10 and CO emissions over the quarter. This is because woodstove activity and automotive CO emissions are often positively correlated (not necessarily linearly) with the number heating degrees (i.e. temperature). It is important to differentiate between heating degree days and the number of air stagnation episodes. Heating degree days reflect an averaged condition over the quarter, while air stagnation episodes reflect a condition that can induce elevated ambient PM-10 and CO concentrations over a relative short time period. The number of air stagnation episodes for each city will be addressed in future reports.

Results With the exception of Anchorage and Fairbanks, Alaska, the number of heating degree days were lower than normal for all the northwest cities reporting data. Hence, warmer conditions relative to normal persisted throughout Idaho, Oregon, and Washington. Meteorological conditions therefore

had a generally mitigating effect on total PM-10 and CO emissions over the quarter relative to 'normal'.

REGION 10 AIR MONITORING NETWORK

The Region 10 air monitoring network, updated in AIRS to reflect the network as of the end of 1st quarter, 1990, is listed by state in the back of this report. The following is a state-by-state summary of newly established sites, discontinued sites, and modified PM-10 sampling frequencies during 1st quarter, 1990.

ALASKA- A new SPM PM-10 site was established in Ketchikan (Valley Park Elementary School) in January, 1990 to monitor for woodsmoke impacts. This site will be operated every-other-day during the winter.

IDAHO- No sites changes reported.

OREGON- No site changes reported.

WASHINGTON- Two new PM-10 sites were established in Vancouver (Moose Lodge-SPM & Port of Vancouver-SLAMS). Both of these sites operate on a one-in-six day schedule.

SHORT-TERM AIR MONITORING STUDIES

WASHINGTON- A 40 site CO saturation study was conducted in Seattle and surrounding communities from December 1989 through February, 1990. A 10-15 site PM-10 study was conducted in Bellingham from late December through February, 1990.

OREGON- A 20 site CO saturation study was conducted in Salem and a 20 site PM-10 study was conducted in Roseburg.

EXCEPTIONAL EVENTS

ALASKA- Two PM10 values recorded at the Bernice Lake site in Nikishka (Kenai) were classified as exceptional events as a result of the eruption of Mt. Redoubt (442 ug/m3 on 1/7/90 & 270 ug/m3 on 1/8/90).

ATTAINMENT STATUS

CARBON MONOXIDE

All Region 10 areas in non-attainment with the CO NAAQS are listed in Table 2. All areas in Region 10 that are in non-attainment for CO are in violation of the 8-hour CO NAAQS. As indicated in Table 1, an area is in non-attainment of the 8-hour CO NAAQS when a monitor records two or more non-overlapping 8-hour CO concentrations exceeding the standard in a calendar year.

Table 2. Region 10 Areas in Non-Attainment of the CO NAAQS¹
(Areas in boldface are new non-attainment areas based on 1990 data)

ALASKA

Anchorage Borough (Anchorage)
North Star Borough (Fairbanks)

IDAHO

Ada Co. (Boise)

OREGON

Josephine Co. (Grants Pass)
Klamath Co. (Klamath Falls)
Jackson Co. (Medford)
Portland-Vancouver CMSA
(Clackamas, Multnomah, Washington, and Yamhill Co.)

WASHINGTON

Seattle-Tacoma CMSA
(King, Pierce, & Snohomish Co.)
Spokane Co.
Yakima Co.
Portland-Vancouver CMSA (Clark Co.)

The monitoring requirements for re-designation of an existing CO non-attainment area to attainment status are as follows: 1) all monitors in the area must meet the attainment test by recording less than two exceedances in each of the last two consecutive four quarter periods, 2) a minimum of 75 percent data completeness must be achieved in each of the last eight consecutive quarters, and 3) the state must demonstrate the monitor(s)

¹-A non-attainment area is defined here as the geographical area effected by the state implementation plan (SIP).

represents the maximum impact area(s). "Off season" quarters are exempt from the completeness requirement if seasonal monitoring was previously approved by the region. Modeling or saturation studies are the usual methods employed to meet the maximum impact area demonstration requirement. Table 3 lists the established CO non-attainment areas where monitoring data satisfies the attainment test and summarizes the status of the additional monitoring requirements described above. For "official" re-designation of CO non-attainment areas, satisfying the monitoring requirements are necessary conditions, but they are not the only conditions. The States must also demonstrate the areas will maintain compliance with the NAAQS in the future.

Table 3. Summary of Attainment Re-Designation Monitoring Requirements for Areas where Monitoring Data meets the CO Attainment Test

State	Areas	Data Completeness	Maximum Impact Demonstration
WASHINGTON			
	Yakima Co.	Complete	1984 study

Description The CO attainment test statistics for all Region 10 CO sites in existing non-attainment areas are reflected in figures 19, 20, 21A, and 21B. The figures display the first and second maximum 8-hour concentrations and the number of exceedances for each of the two consecutive four quarter periods over the last eight quarters. If the second maximum from either of the two consecutive four quarter periods is above the standard, the area that the site represents remains in non-attainment (i.e. two or more exceedances in either of the two consecutive four quarter periods).

Results The following is a brief summary of the graphics on a state-by-state basis:

ALASKA - Figure 19 shows that Anchorage and Fairbanks remain in non-attainment of the CO NAAQS.

IDAHO - Due to incomplete data records over the last year, these statistics were not generated for Idaho.

OREGON - Figure 20 shows that Grants Pass, Klamath Falls, and Medford remain in non-attainment of the CO NAAQS. Data from four of the Portland sites meet the attainment test. However, a new site established in November, 1989 at 82nd and S.E. Division violates the CO NAAQS and fails the attainment test. Data from this site shows that at least portions of the Portland CMSA remain in non-attainment. This site was identified as a result of a saturation study conducted in Portland during the 1988-89 'winter season'.

WASHINGTON - Figures 21A and 21B show that the Seattle-Tacoma CMSA (which includes Seattle, Bellevue, Everett, and Tacoma), Spokane, and Vancouver remain in non-attainment of the CO NAAQS. Data from the Yakima sites reveal that Yakima satisfies the attainment test. The 1984 saturation study in Yakima must be reviewed to determine if it is technically sufficient to satisfy the maximum impact demonstration.

*GRAPHICAL
SUMMARIES
OF
STATE AIR QUALITY
DATA SUBMITTALS*

TIMELINESS OF STATE AIR DATA SUBMITTALS

FIRST QUARTER, 1990 (JANUARY 1 - MARCH 31, 1990)
DAYS SUBMITTED COMPLETE TO AIRS DATABASE (AS OF AUGUST 10, 1990)
LINE = 120 DAY COMPLETE DATABASE VALIDATION DEADLINE

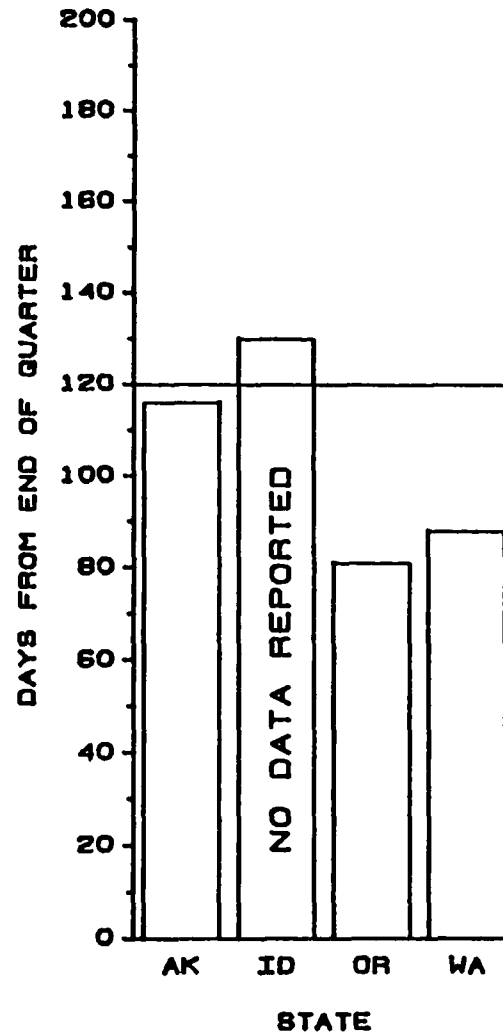


FIGURE 1

COMPLETENESS OF STATE AIR DATA SUBMITTALS

FIRST QUARTER, 1990

— NAMS/SLAMS/SPECIAL PURPOSE MONITORS —
— LINE - 75% NADS COMPLETENESS CRITERIA —

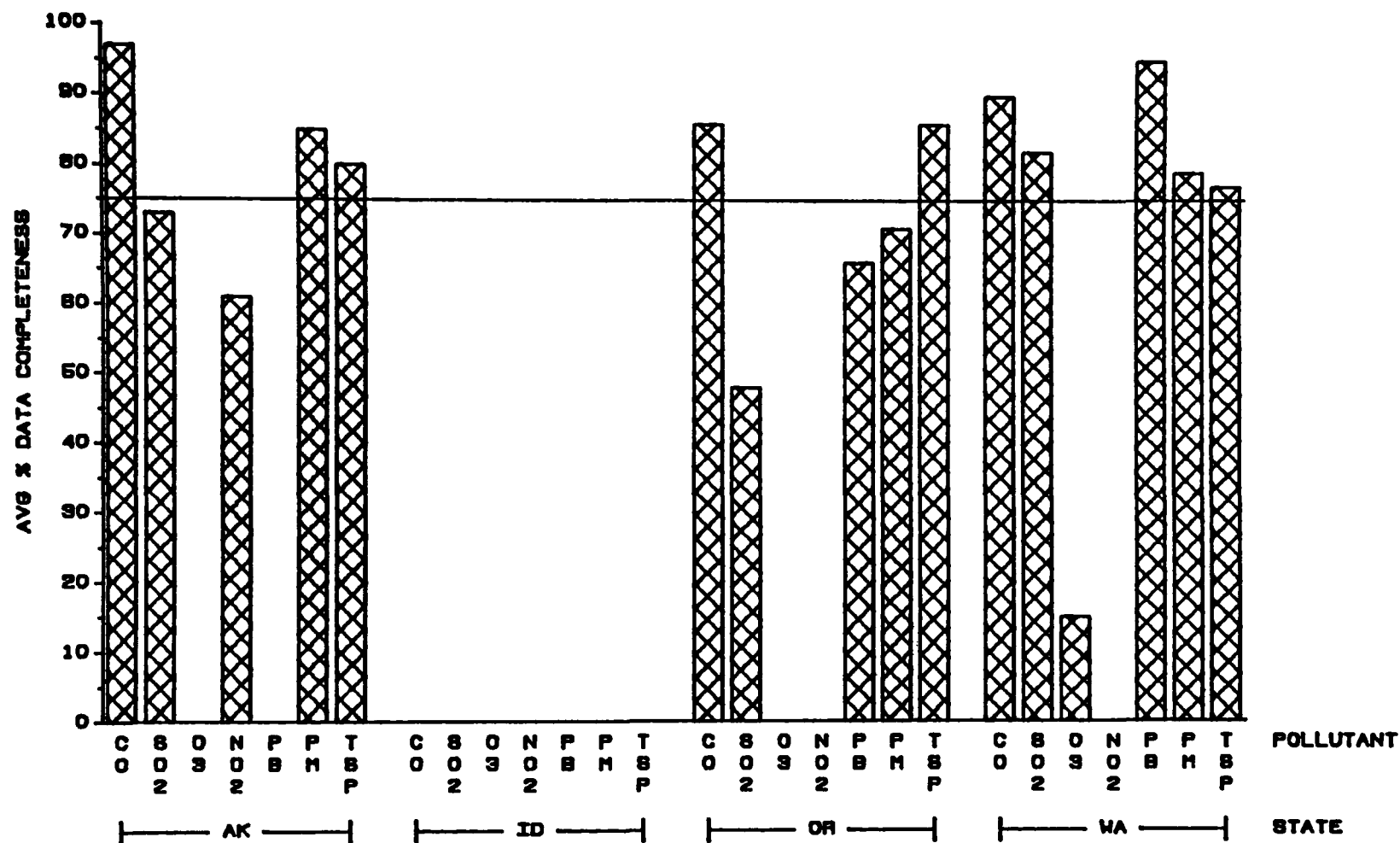
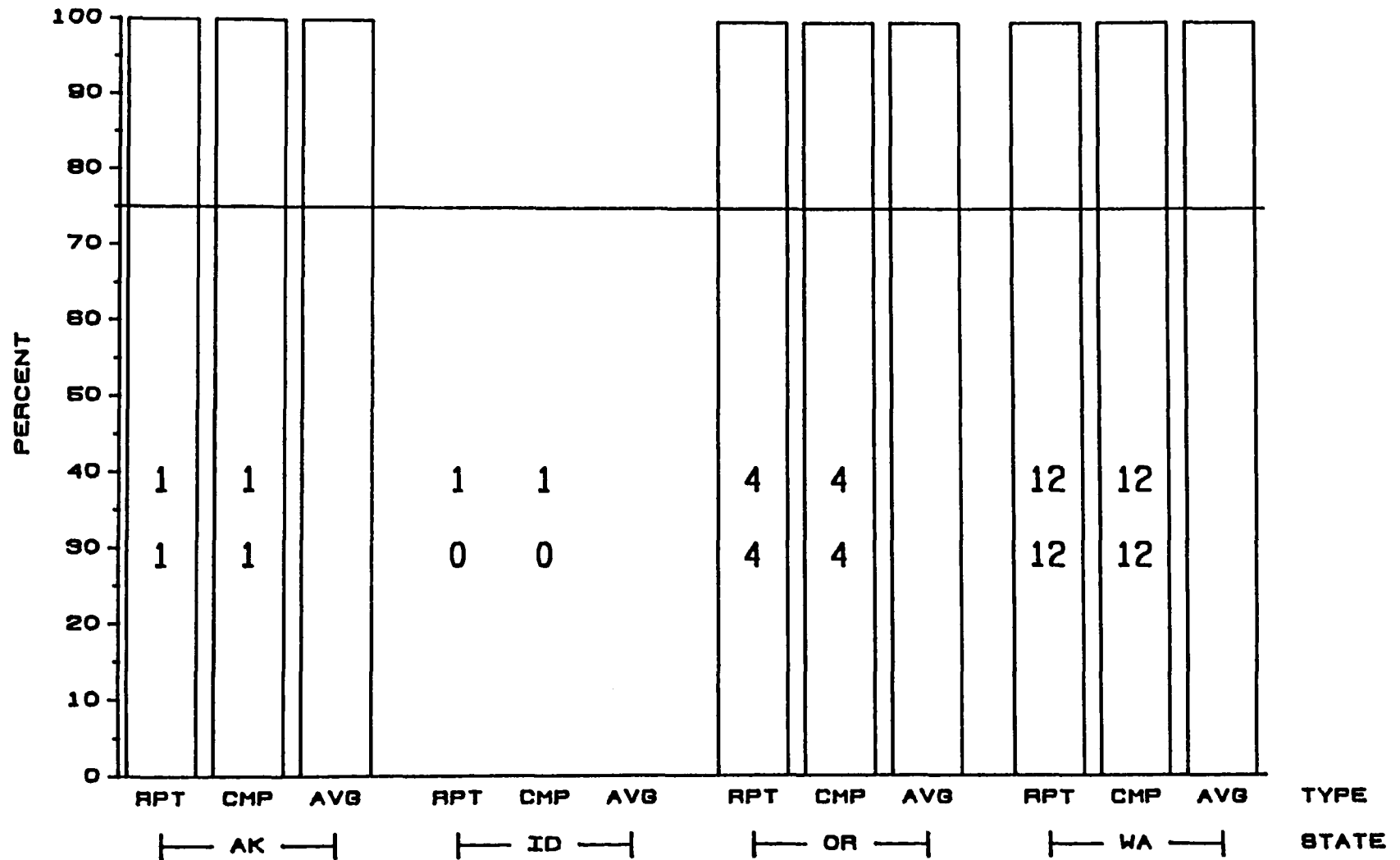


FIGURE 2

REGION 10 STARS PERFORMANCE
QUARTER 1, 1990 (JANUARY 1 - MARCH 31, 1990)
-- NAMS PM10 MONITORS --
LINE - 75% NADB COMPLETENESS CRITERIA



RPT = % MONITORS REPORTING DATA
 CMP = % MONITORS MEETING SUMMARY CRITERIA
 AVG = AVERAGE % COMPLETENESS OF MONITORS
 TOP # = # REQUIRED MONITORS
 BOTTOM # = # REPORTED MONITORS

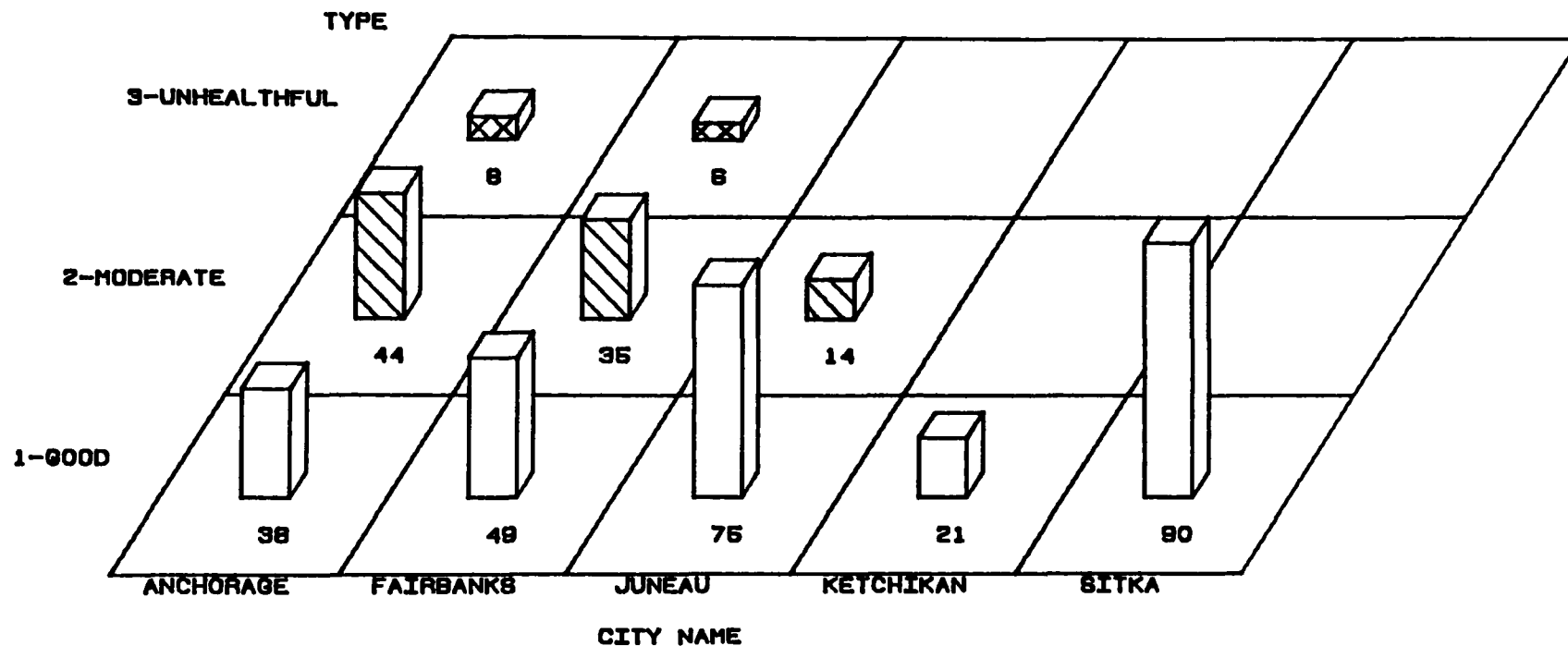
FIGURE 3

PLOT OF PSI FOR ALASKA CITIES

QUARTER ONE -- 1990

GRAPH DISPLAYS NUMBER OF DAYS IN EACH PSI CATEGORY

FREQUENCY BLOCK CHART



GOOD = 0 - 50

MODERATE = 51 - 100

UNHEALTHFUL = 101 - 199

VERY UNHEALTHFUL = 200 - 299

HAZARDOUS = > 299

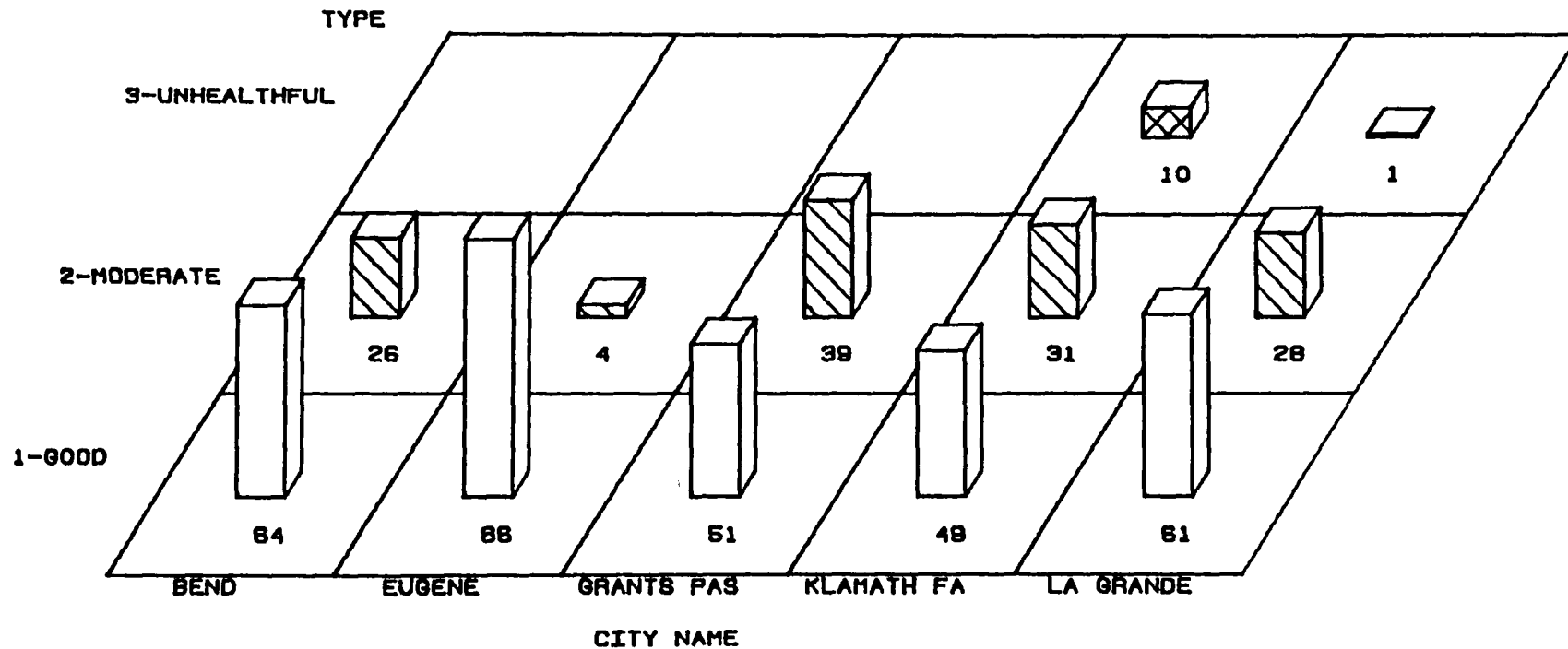
FIGURE 4

PLOT OF PSI FOR OREGON CITIES

QUARTER ONE -- 1990

GRAPH DISPLAYS NUMBER OF DAYS IN EACH PSI CATEGORY

FREQUENCY BLOCK CHART



GOOD = 0 - 50

MODERATE = 51 - 100

UNHEALTHFUL = 101 - 199

VERY UNHEALTHFUL = 200 - 299

HAZARDOUS = > 299

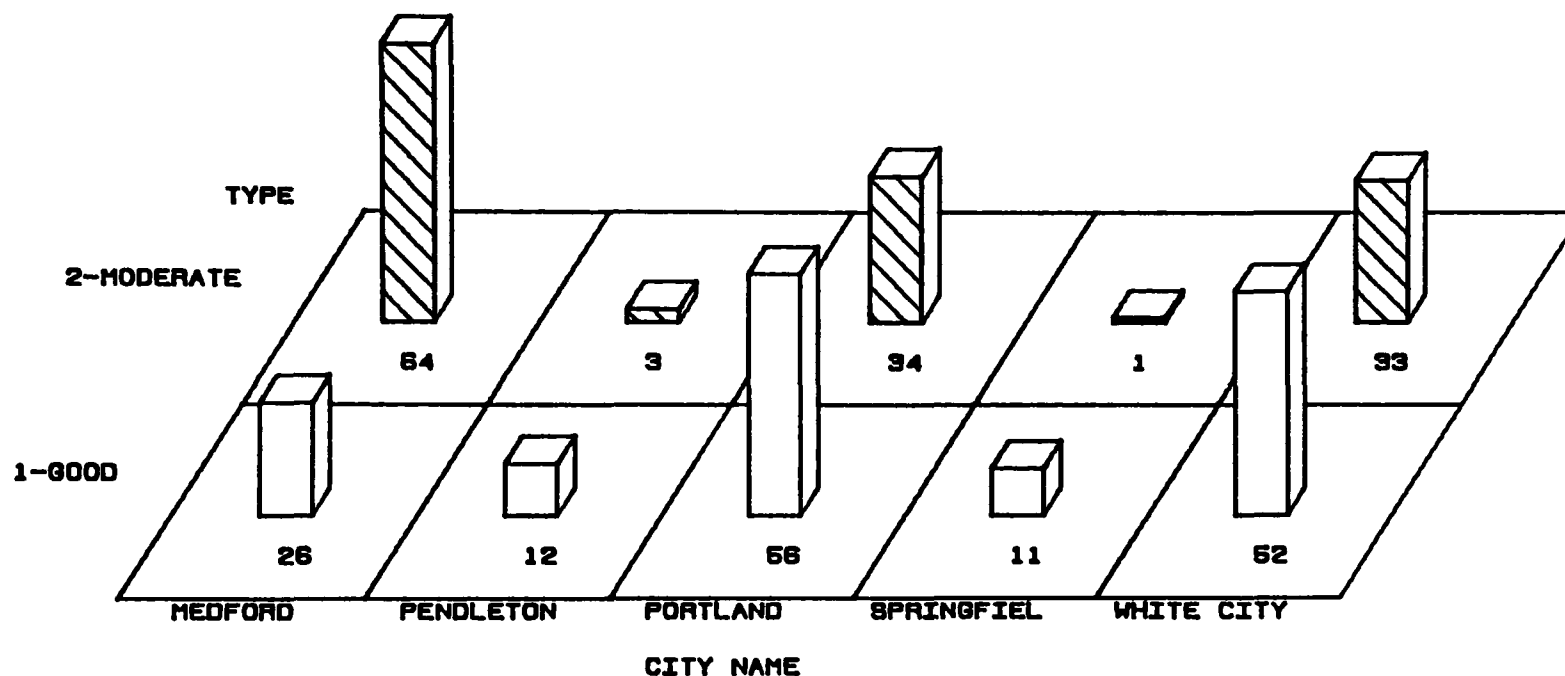
FIGURE 5A

PLOT OF PSI FOR OREGON CITIES

QUARTER ONE -- 1990

GRAPH DISPLAYS NUMBER OF DAYS IN EACH PSI CATEGORY

FREQUENCY BLOCK CHART



GOOD = 0 - 50

MODERATE = 51 - 100

UNHEALTHFUL = 101 - 199

VERY UNHEALTHFUL = 200 - 299

HAZARDOUS = > 299

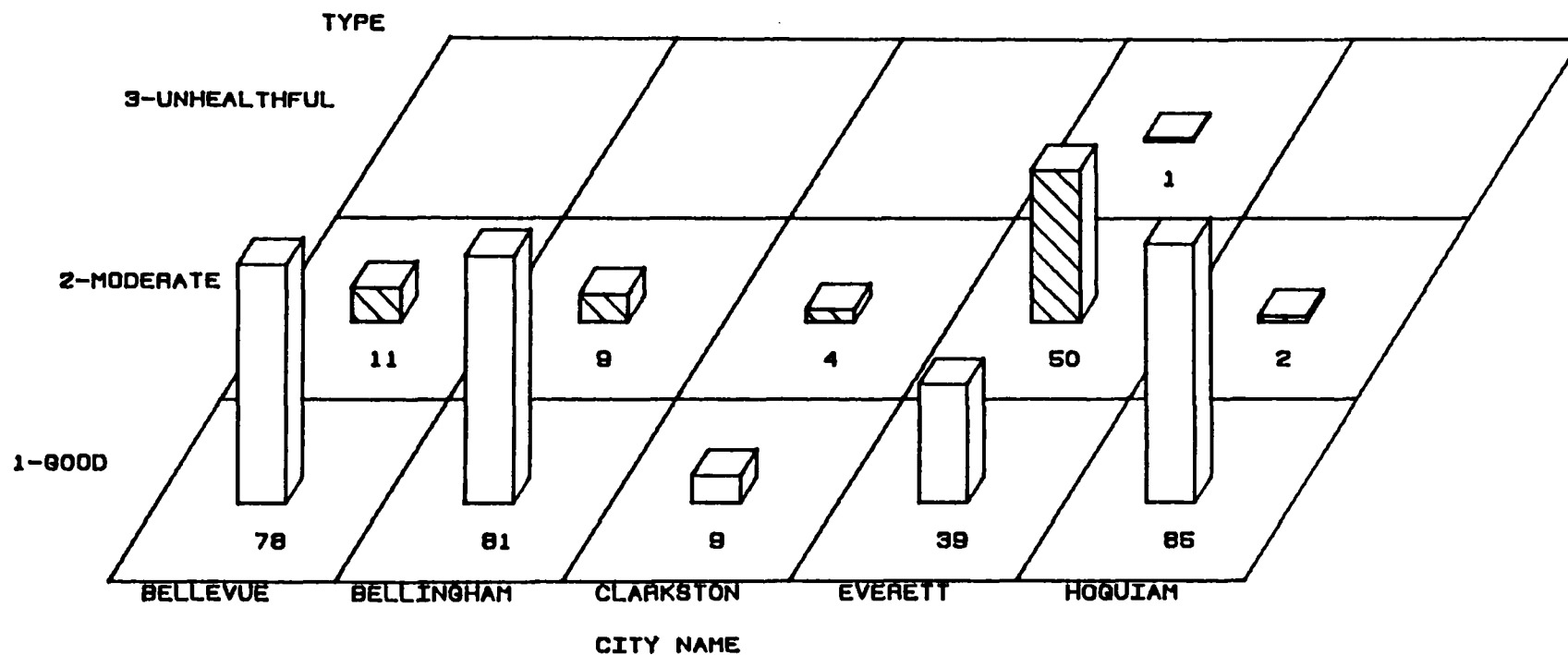
FIGURE 5B

PLOT OF PSI FOR WASHINGTON CITIES

QUARTER ONE -- 1990

GRAPH DISPLAYS NUMBER OF DAYS IN EACH PSI CATEGORY

FREQUENCY BLOCK CHART



GOOD = 0 - 50

MODERATE = 51 - 100

UNHEALTHFUL = 101 - 199

VERY UNHEALTHFUL = 200 - 299

HAZARDOUS = > 299

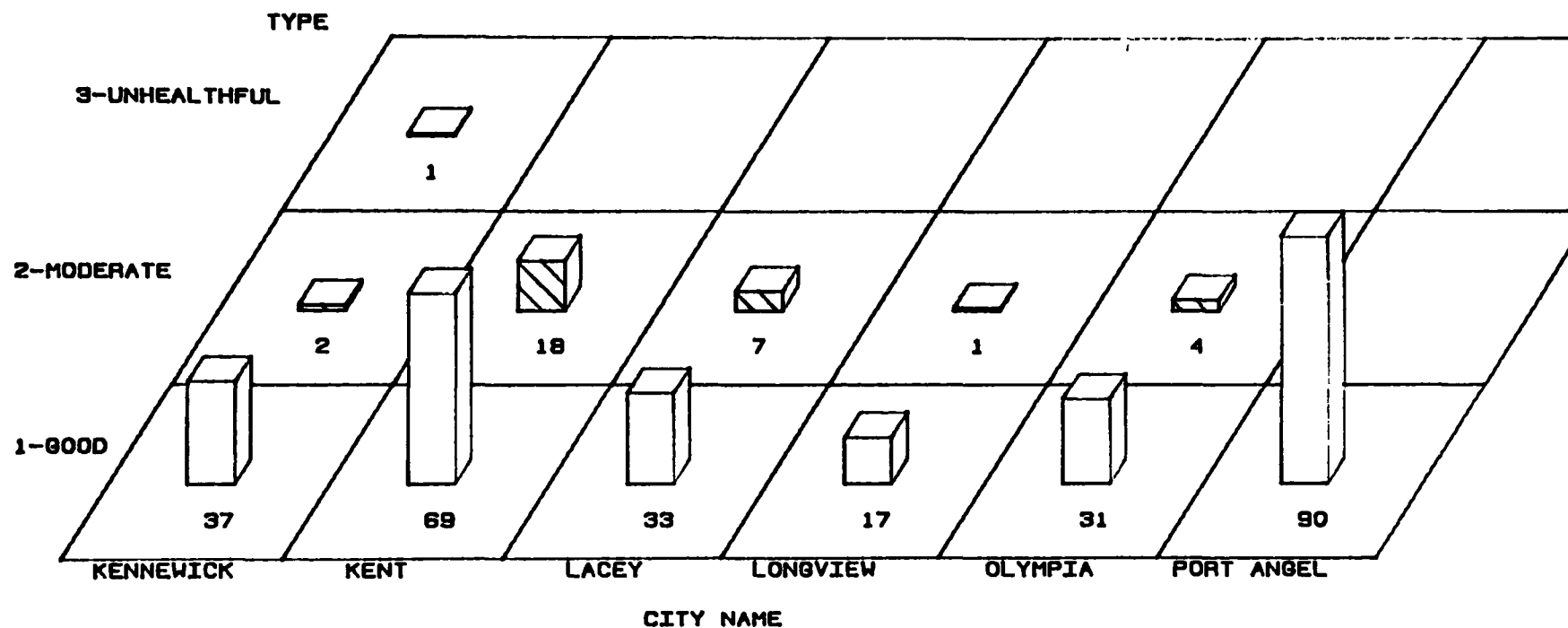
FIGURE 6A

PLOT OF PSI FOR WASHINGTON CITIES

QUARTER ONE -- 1990

GRAPH DISPLAYS NUMBER OF DAYS IN EACH PSI CATEGORY

FREQUENCY BLOCK CHART



GOOD = 0 - 50

MODERATE = 51 - 100

UNHEALTHFUL = 101 - 199

VERY UNHEALTHFUL = 200 - 299

HAZARDOUS = > 299

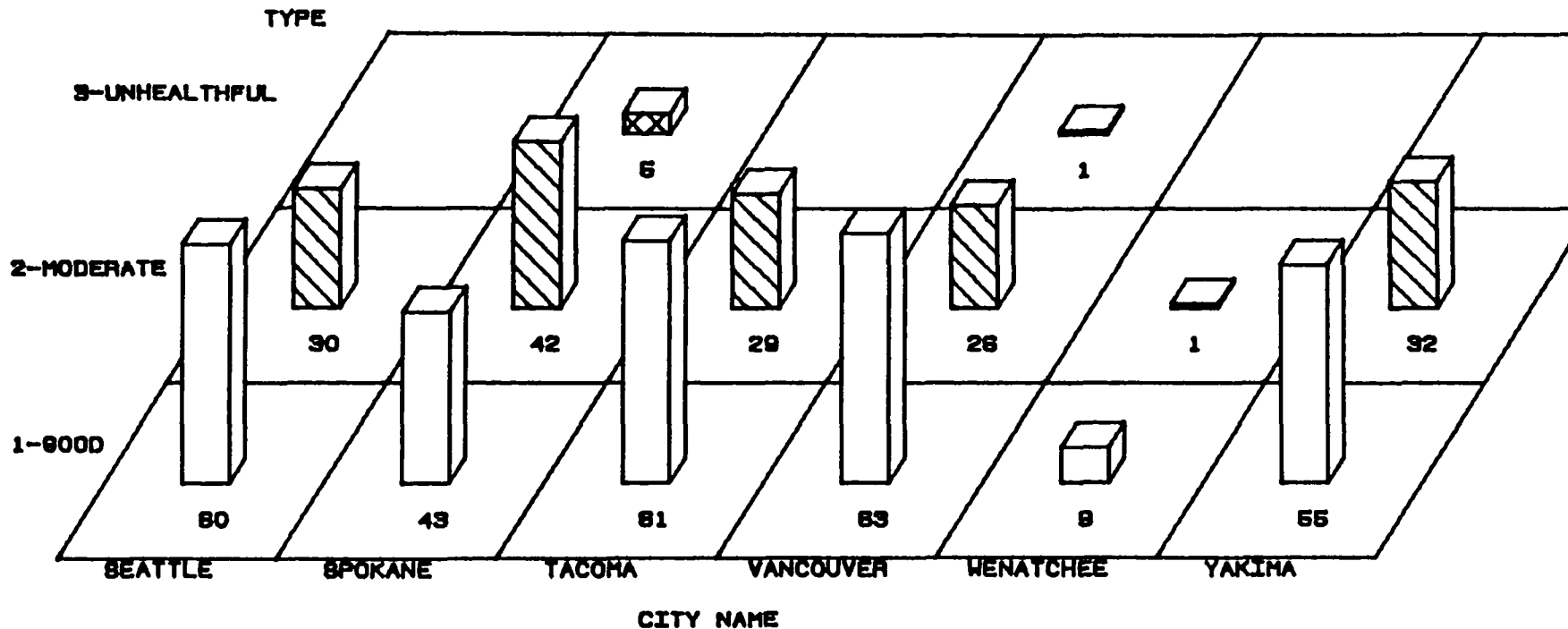
FIGURE 6B

PLOT OF PSI FOR WASHINGTON CITIES

QUARTER ONE -- 1990

GRAPH DISPLAYS NUMBER OF DAYS IN EACH PSI CATEGORY

FREQUENCY BLOCK CHART



GOOD = 0 - 50

MODERATE = 51 - 100

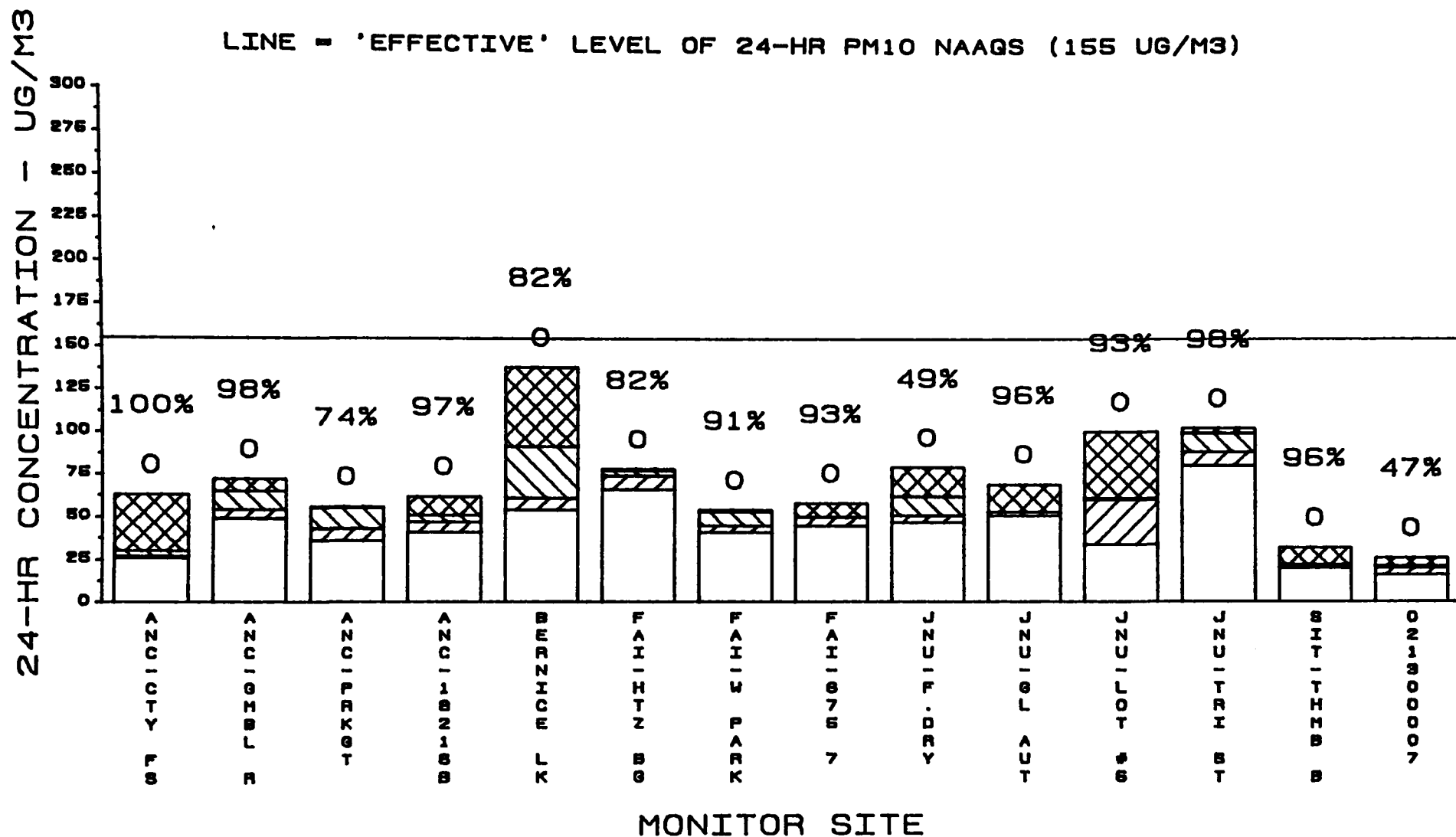
UNHEALTHFUL = 101 - 199

VERY UNHEALTHFUL = 200 - 299

HAZARDOUS = > 299

FIGURE 6C

ALASKA PM10 STATUS QUARTER 1, 1990



TOP NUM. = PERCENT OF POSSIBLE DATA COLLECTED

BOT NUM. = NUMBER READINGS EXCEEDING STANDARD

SOLID BAR = PORTION OF 1ST/2ND/3RD/4TH MAX ABOVE STANDARD

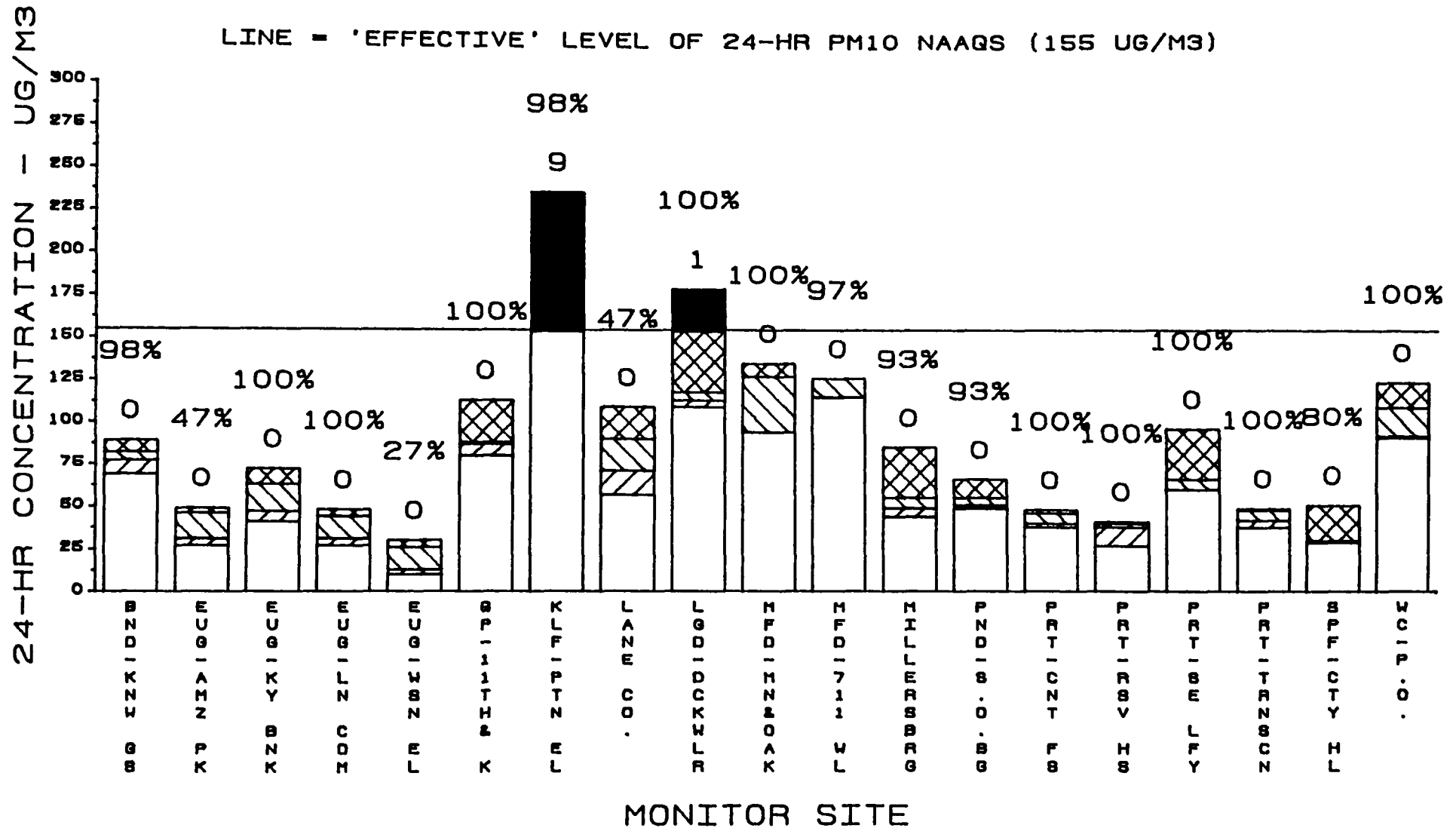
CROSS HATCH = 1ST MAX LEFT SLANT = 2ND MAX RIGHT SLANT = 3RD MAX

CLEAR = 4TH MAX

FIGURE 7

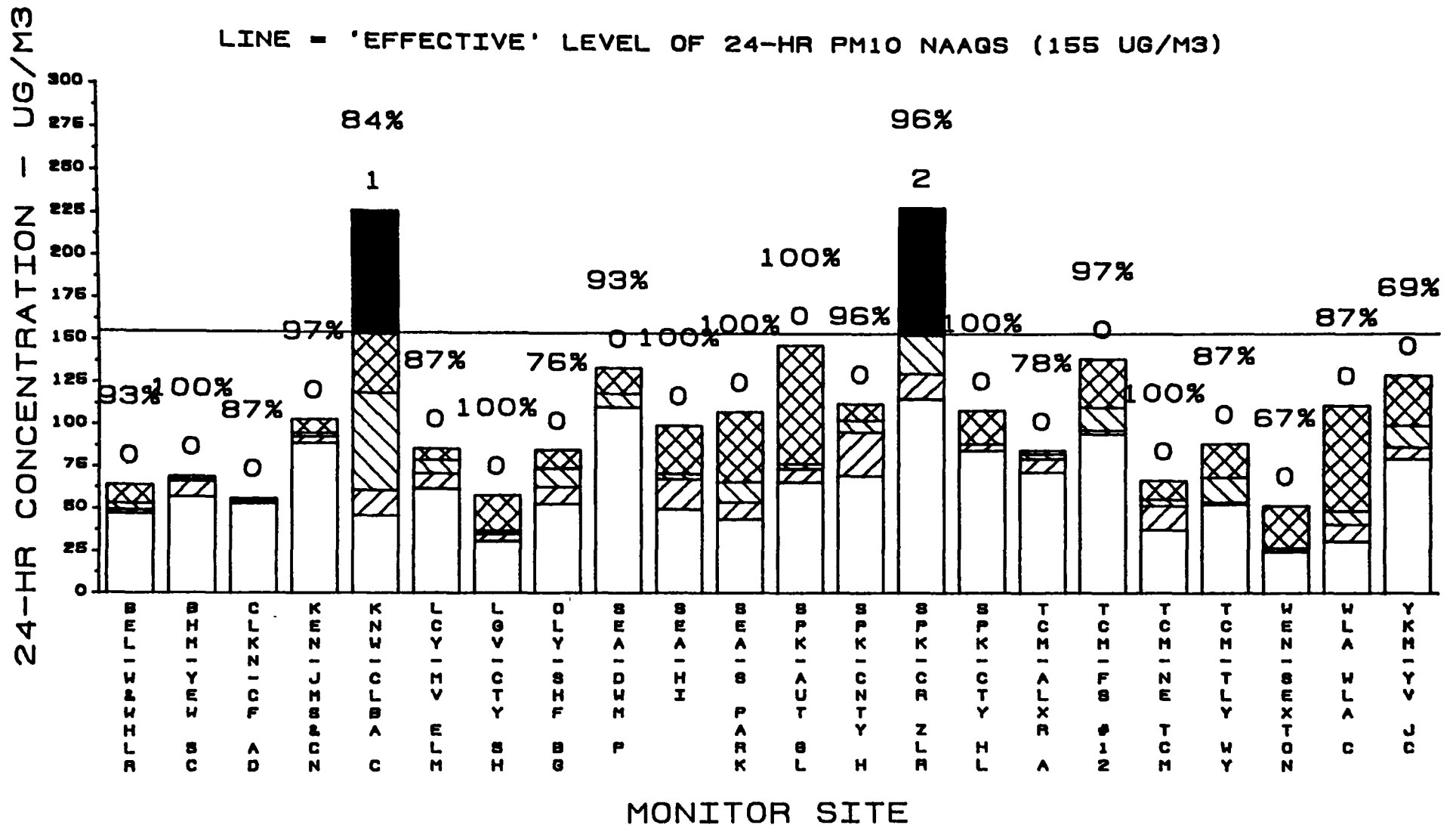
OREGON PM10 STATUS QUARTER 1, 1990

LINE = 'EFFECTIVE' LEVEL OF 24-HR PM10 NAAQS (155 UG/M3)



TOP NUM. = PERCENT OF POSSIBLE DATA COLLECTED
 BOT NUM. = NUMBER READINGS EXCEEDING STANDARD
 SOLID BAR = PORTION OF 1ST/2ND/3RD/4TH MAX ABOVE STANDARD
 CROSS HATCH = 1ST MAX LEFT SLANT = 2ND MAX RIGHT SLANT = 3RD MAX
 CLEAR = 4TH MAX
 FIGURE 8

WASHINGTON PM10 STATUS QUARTER 1, 1990

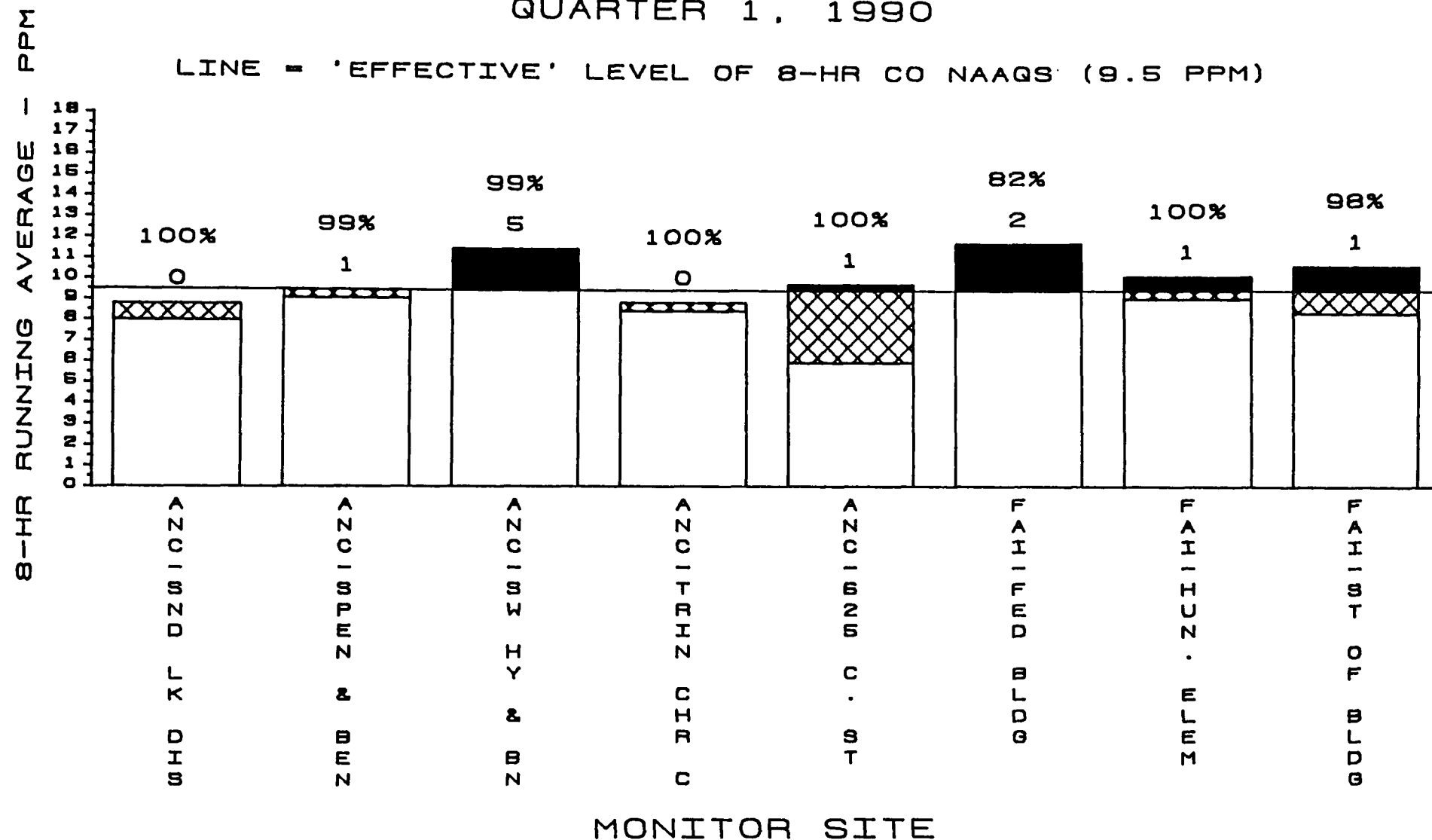


MONITOR SITE

TOP NUM. = PERCENT OF POSSIBLE DATA COLLECTED
 BOT NUM. = NUMBER READINGS EXCEEDING STANDARD
 SOLID BAR = PORTION OF 1ST/2ND/3RD/4TH MAX ABOVE STANDARD
 CROSS HATCH = 1ST MAX LEFT SLANT = 2ND MAX RIGHT SLANT = 3RD MAX
 CLEAR = 4TH MAX

FIGURE 9

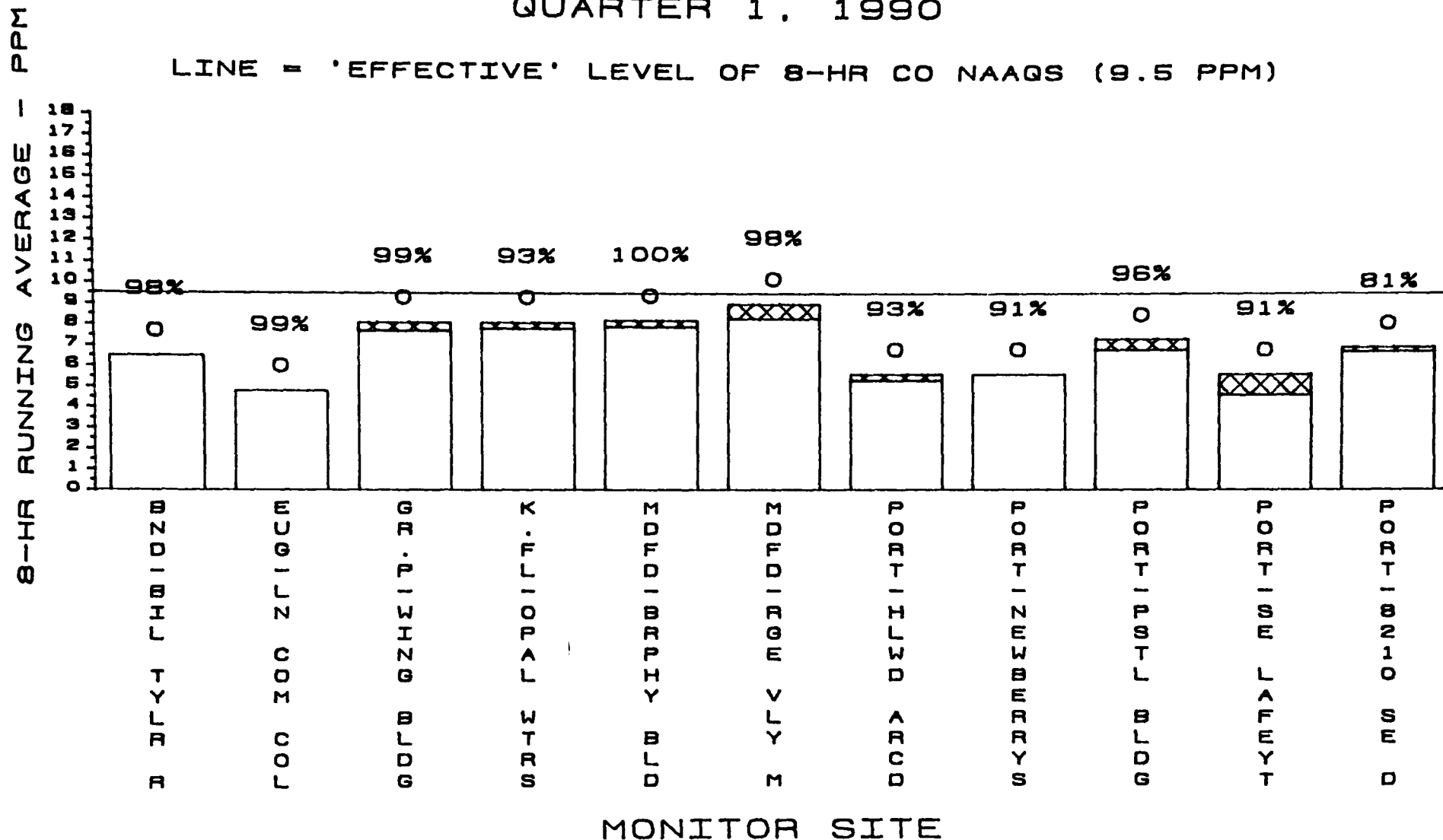
ALASKA CO STATUS QUARTER 1, 1990



TOP NUM. = PERCENT OF POSSIBLE DATA COLLECTED
 BOT NUM. = NUMBER READINGS EXCEEDING STANDARD
 SOLID BAR = PORTION OF 1ST/2ND MAX ABOVE STANDARD
 CROSS HATCH BAR = 1ST MAX CLEAR BAR = 2ND MAX

FIGURE 10

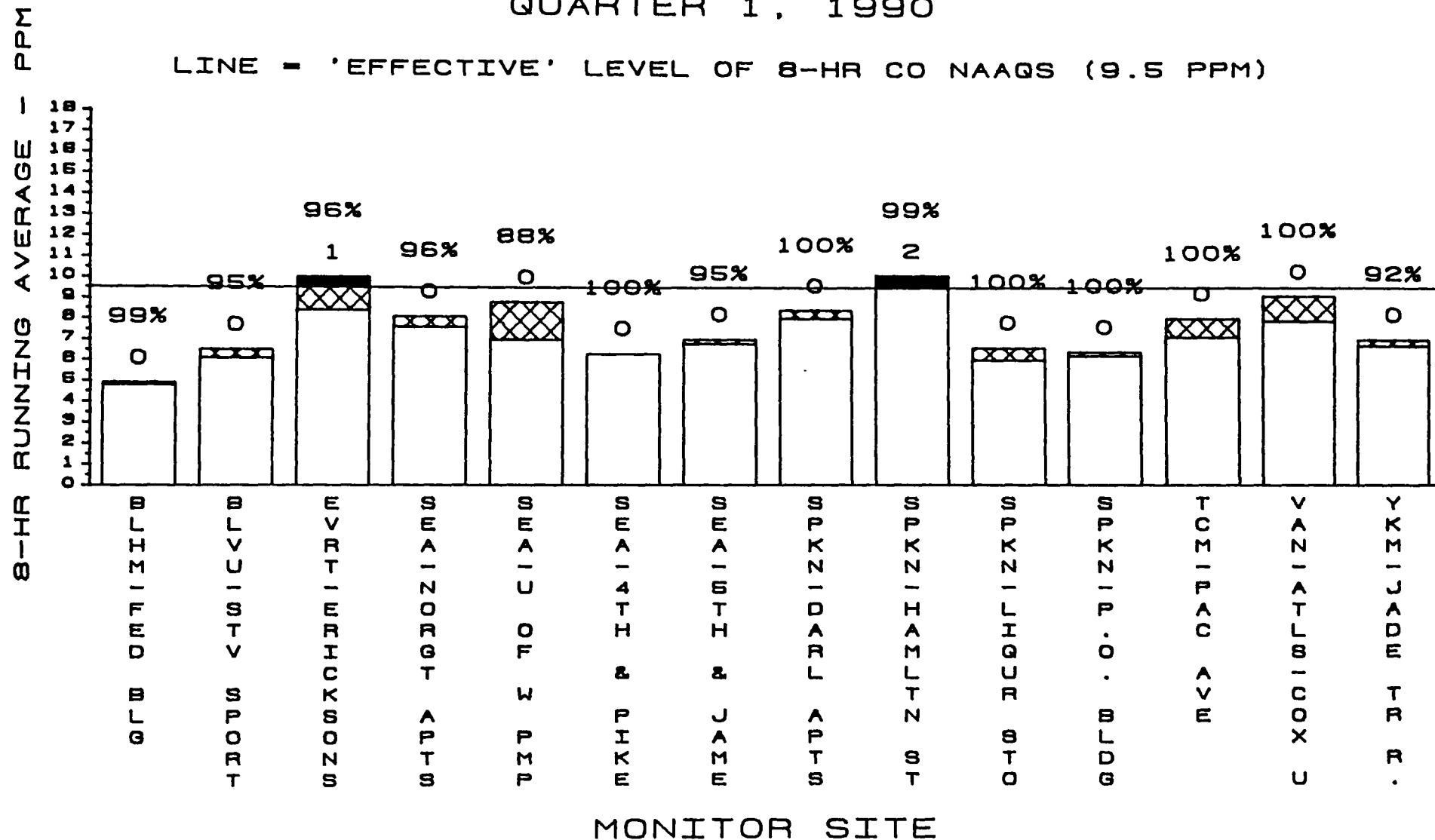
OREGON CO STATUS QUARTER 1, 1990



TOP NUM. = PERCENT OF POSSIBLE DATA COLLECTED
 BOT NUM. = NUMBER READINGS EXCEEDING STANDARD
 SOLID BAR = PORTION OF 1ST/2ND MAX ABOVE STANDARD
 CROSS HATCH BAR = 1ST MAX CLEAR BAR = 2ND MAX

FIGURE 11

WASHINGTON CO STATUS QUARTER 1, 1990

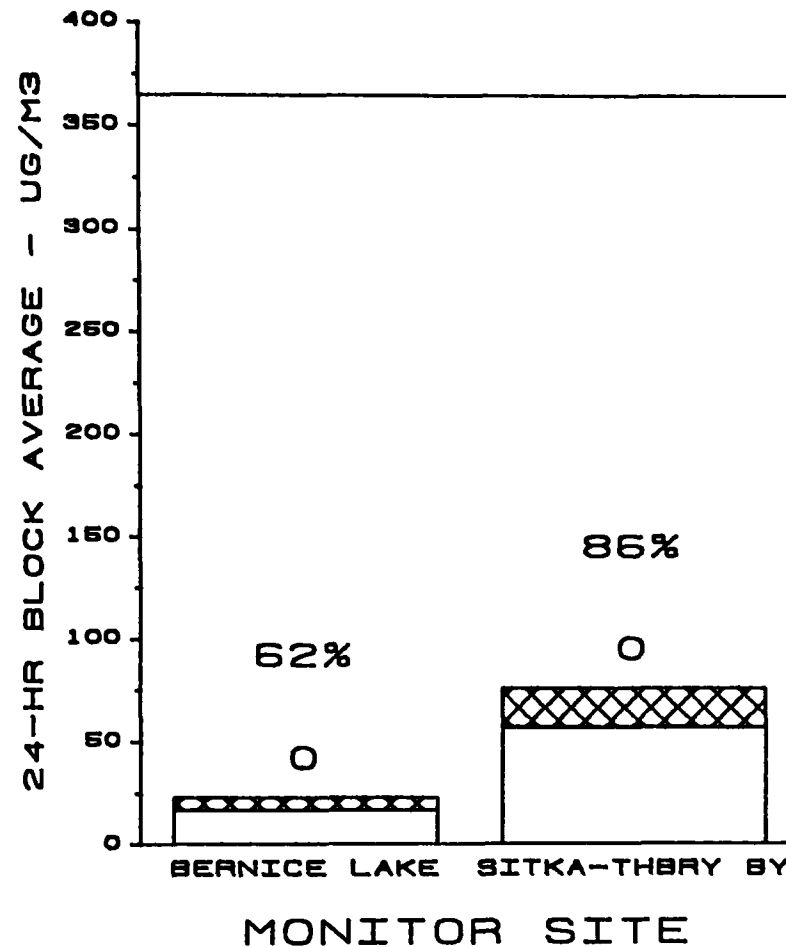


TOP NUM. = PERCENT OF POSSIBLE DATA COLLECTED
 BOT NUM. = NUMBER READINGS EXCEEDING STANDARD
 SOLID BAR = PORTION OF 1ST/2ND MAX ABOVE STANDARD
 CROSS HATCH BAR = 1ST MAX CLEAR BAR = 2ND MAX

FIGURE 12

ALASKA SO2 STATUS QUARTER 1, 1990

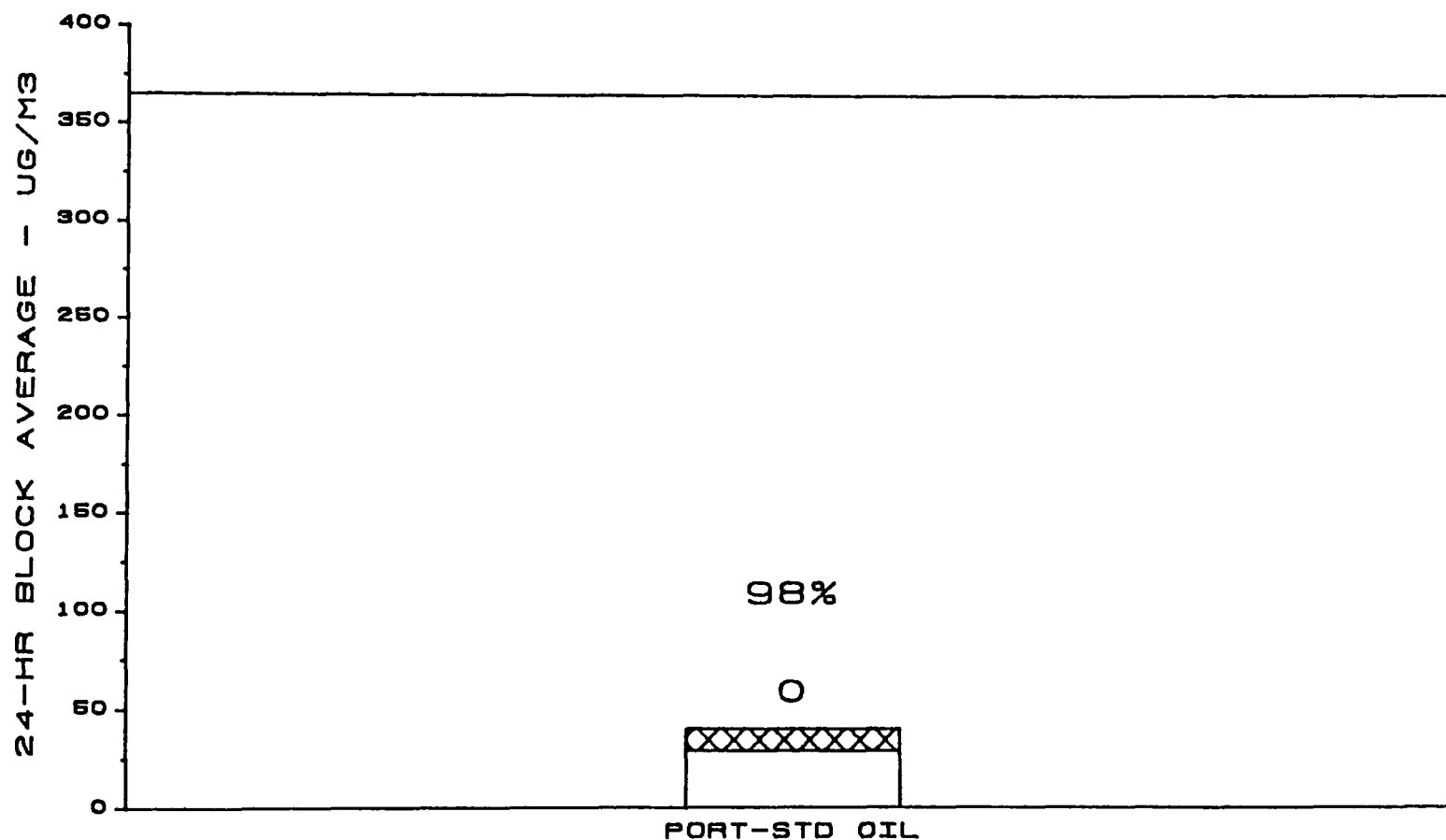
LINE = 24-HR SO2 NAAQS OF 365 UG/M3



TOP NUM. = PERCENT OF POSSIBLE DATA COLLECTED
 BOT NUM. = NUMBER READINGS EXCEEDING STANDARD
 SOLID BAR = PORTION OF 1ST/2ND MAX ABOVE STANDARD
 CROSS HATCH BAR = 1ST MAX CLEAR BAR = 2ND MAX
 FIGURE 13

OREGON SO2 STATUS
QUARTER 1, 1990

LINE = 24-HR SO2 NAAQS OF 365 UG/M3



MONITOR SITE

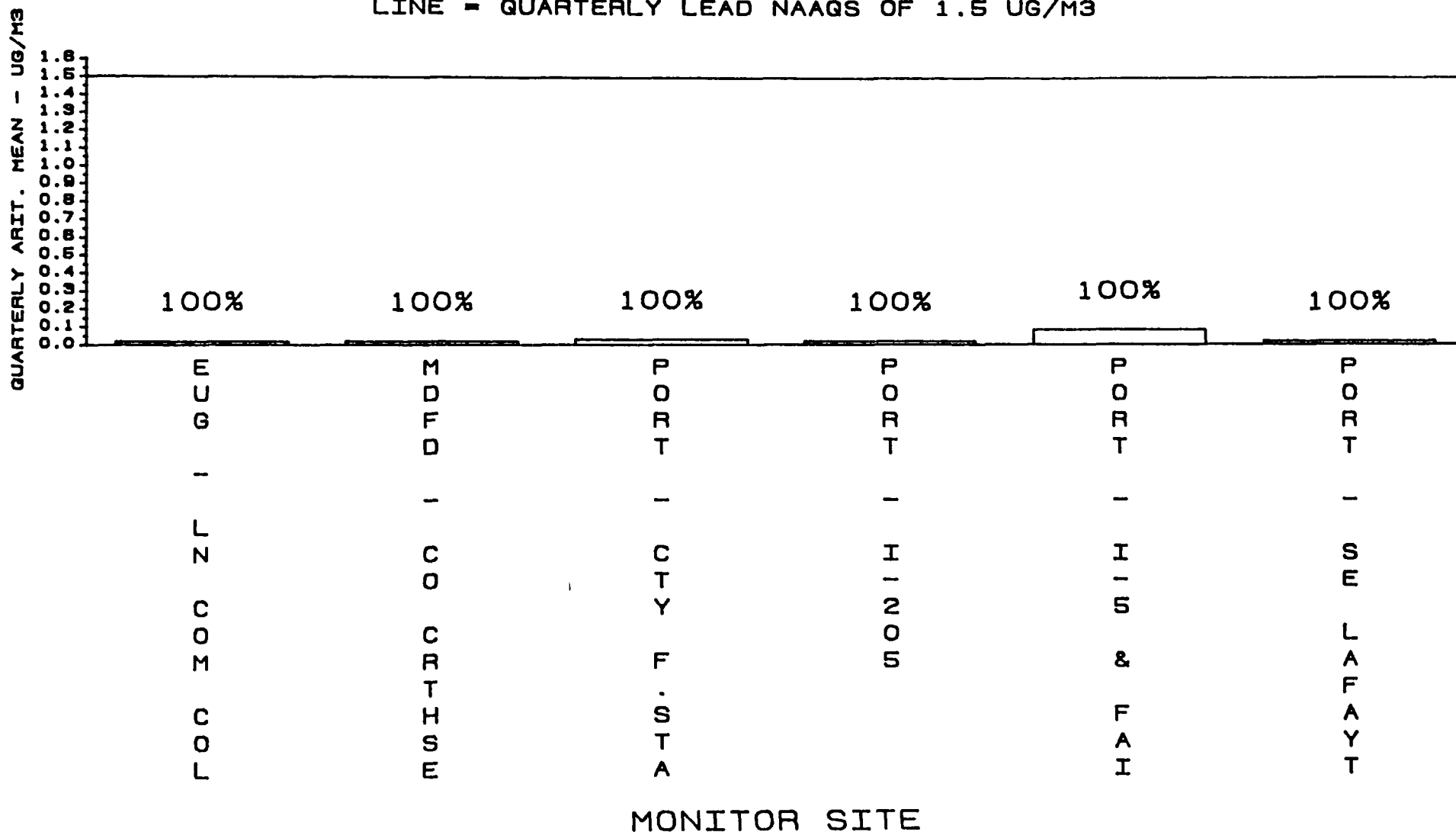
TOP NUM. = PERCENT OF POSSIBLE DATA COLLECTED
BOT NUM. = NUMBER READINGS EXCEEDING STANDARD
SOLID BAR = PORTION OF 1ST/2ND MAX ABOVE STANDARD
CROSS HATCH BAR = 1ST MAX CLEAR BAR = 2ND MAX

FIGURE 14

OREGON LEAD STATUS

QUARTER 1, 1990

LINE = QUARTERLY LEAD NAAQS OF 1.5 UG/M3



CLEAR BAR = QUARTERLY MEAN.

SOLID BAR = PORTION OF QUARTERLY MEAN ABOVE STANDARD.

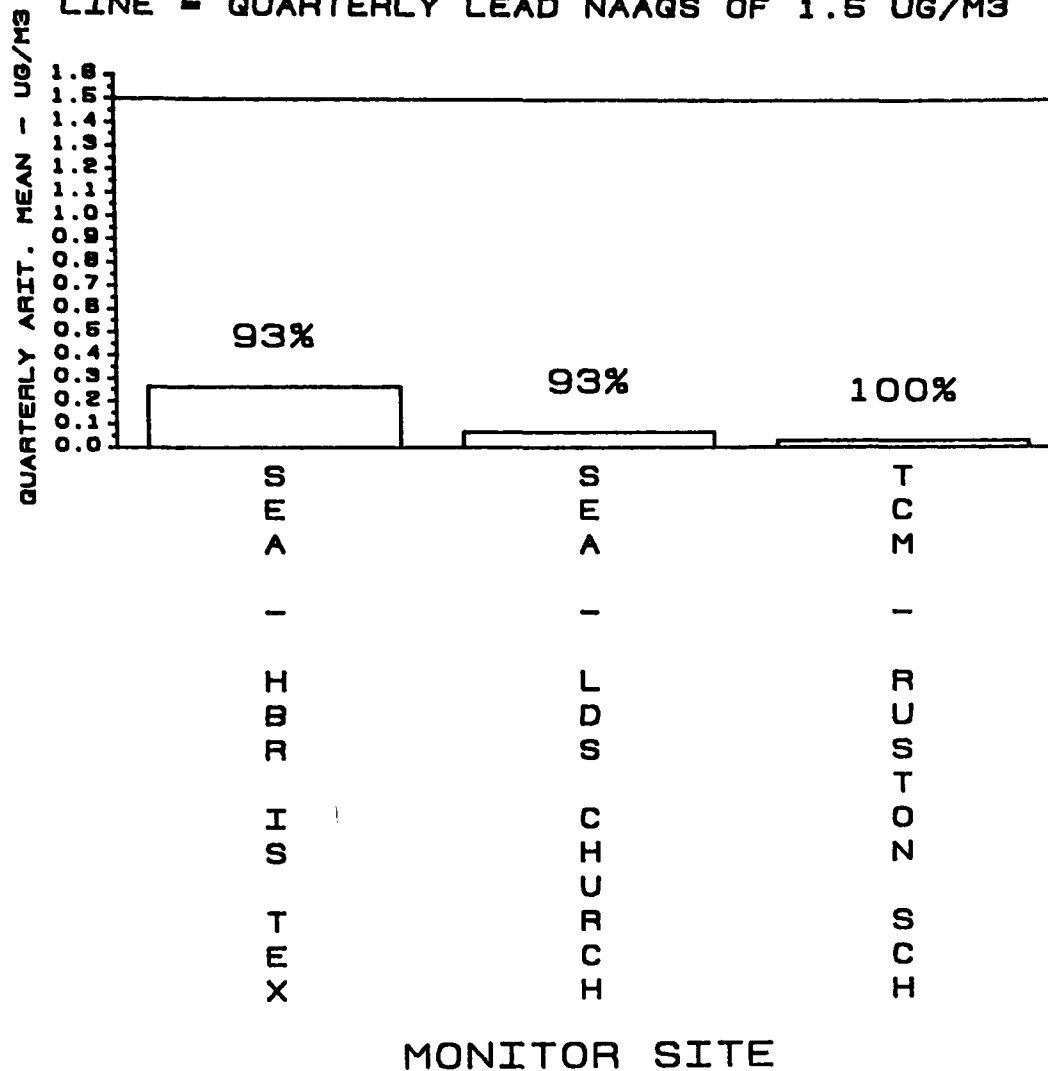
NUMBER ABOVE BARS = PERCENT OF POSSIBLE OBSERVATIONS

FIGURE 16

WASHINGTON LEAD STATUS

QUARTER 1, 1990

LINE = QUARTERLY LEAD NAAQS OF 1.5 UG/M3



CLEAR BAR = QUARTERLY MEAN.

SOLID BAR = PORTION OF QUARTERLY MEAN ABOVE STANDARD.

NUMBER ABOVE BARS = PERCENT OF POSSIBLE OBSERVATIONS

FIGURE 17

REGION 10 HEATING DEGREE DAYS QUARTER 1, 1990

PERCENT DEVIATION FROM 30 YEAR NORMAL

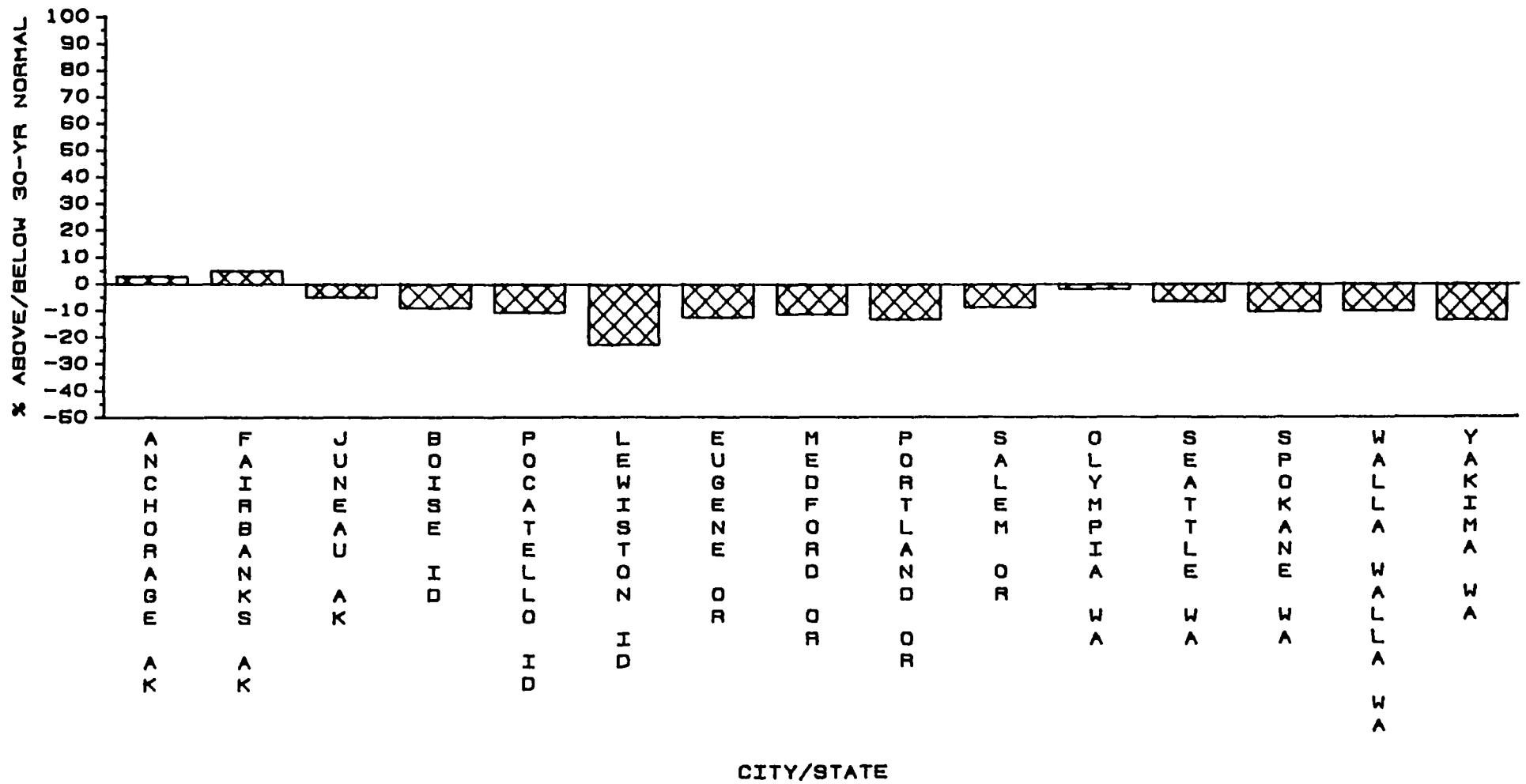


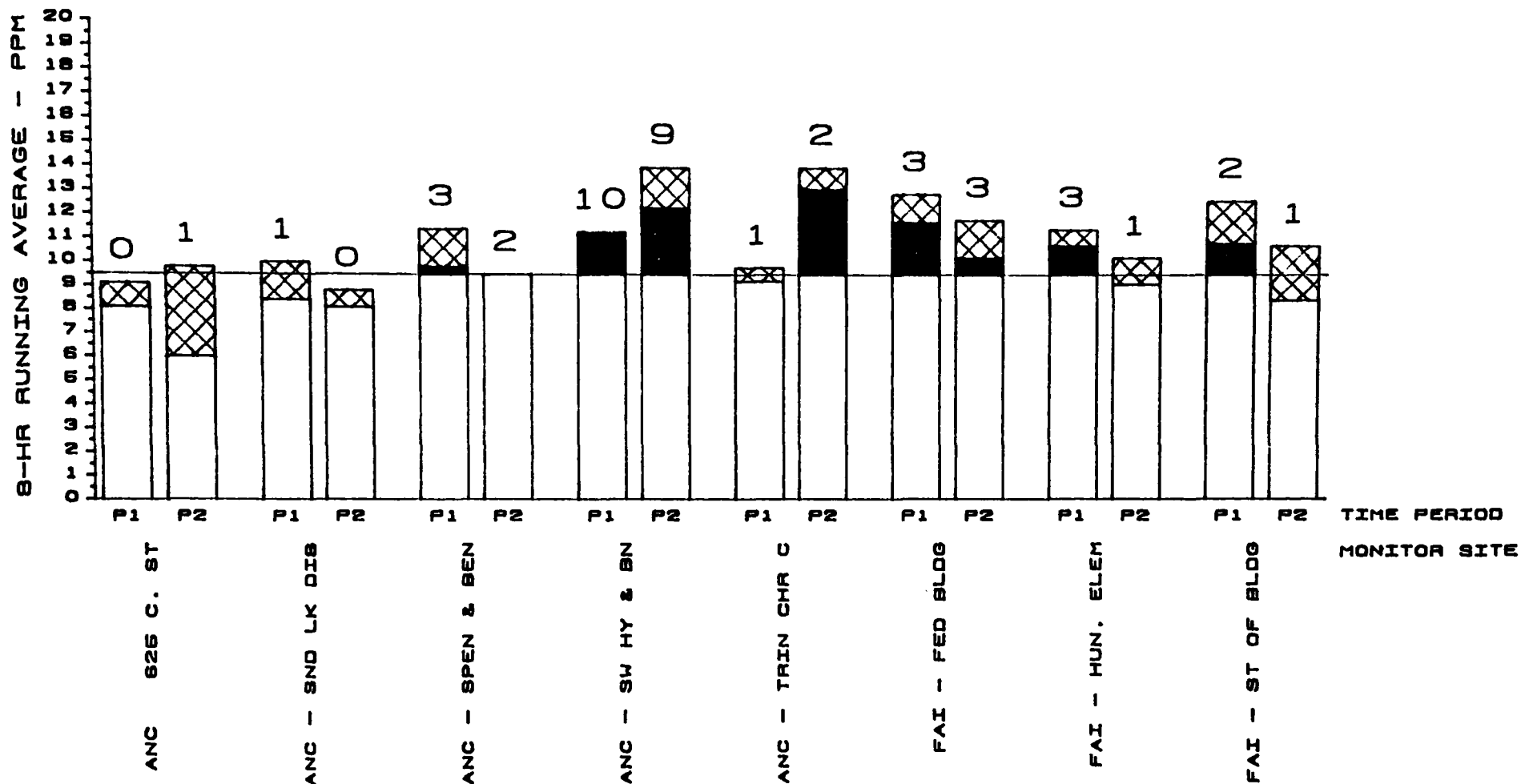
FIGURE 18

ALASKA CO ATTAINMENT TEST

QTR 2, 1988 THROUGH QTR 1, 1990

P1 = QTR2/1988-QTR1/1989--P2 = QTR2/1989-QTR1/1990

LINE = 'EFFECTIVE' LEVEL OF 8-HR CO NAAQS (9.5 PPM)



NUMBER = NUMBER OF EXCEEDANCES

SOLID BAR = PORTION OF 2ND MAX ABOVE STANDARD

CROSS HATCH BAR = 1ST MAX

CLEAR BAR = 2ND MAX

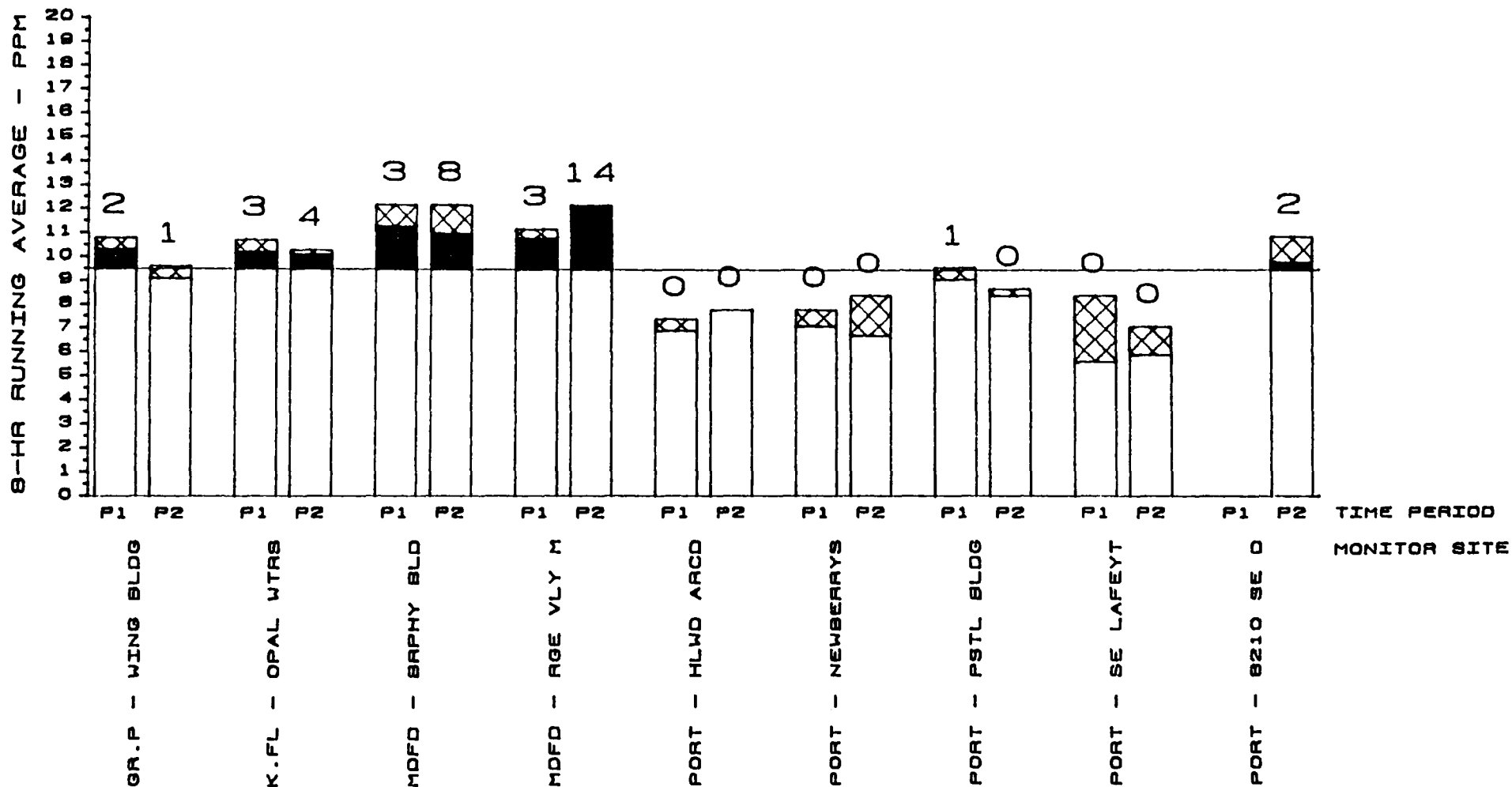
FIGURE 19

OREGON CO ATTAINMENT TEST

QTR 2, 1988 THROUGH QTR 1, 1990

P1 = QTR2/1988-QTR1/1989--P2 = QTR2/1989-QTR1/1990

LINE = 'EFFECTIVE' LEVEL OF 8-HR CO NAAQS (9.5 PPM)



NUMBER = NUMBER OF EXCEEDANCES

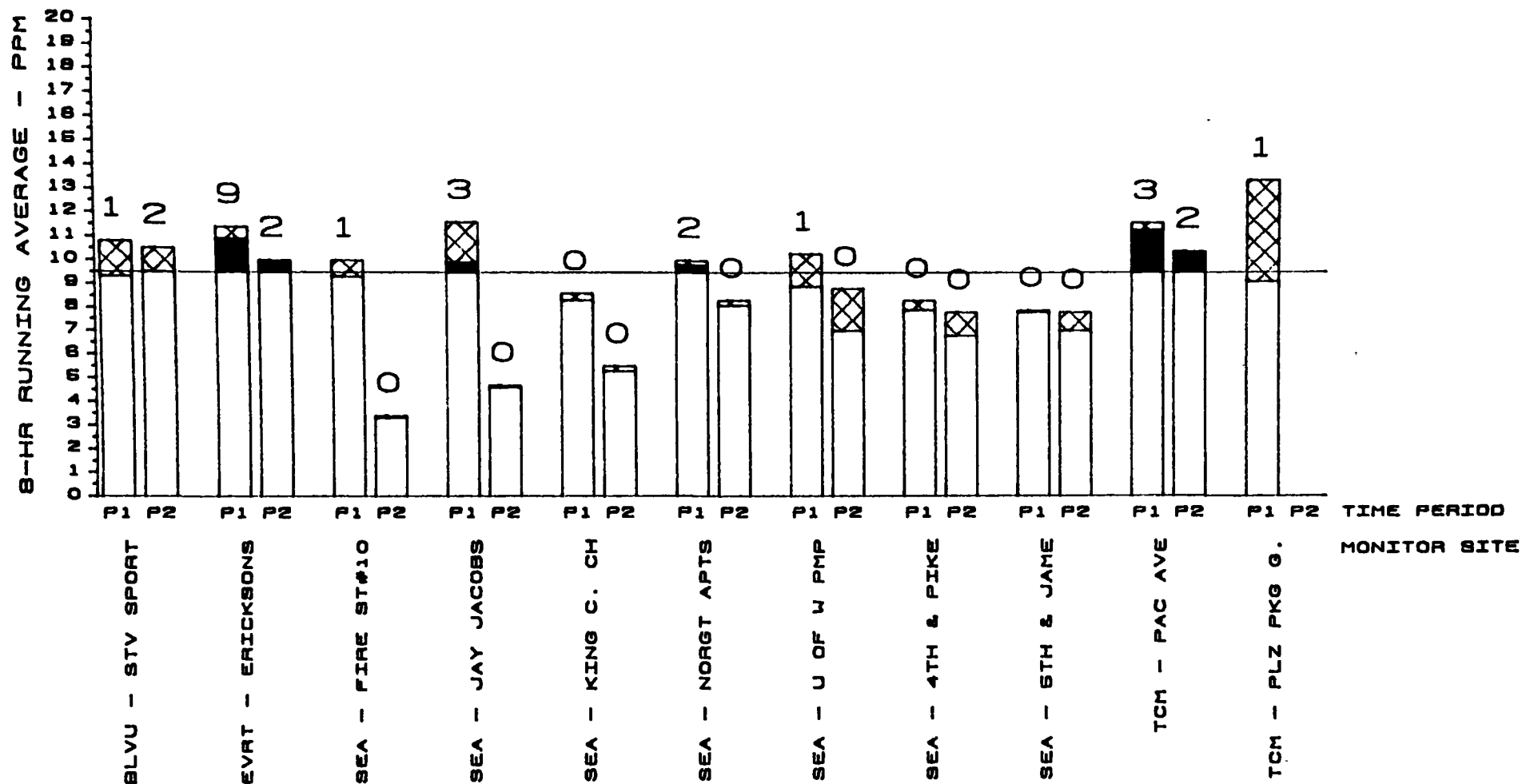
SOLID BAR = PORTION OF 2ND MAX ABOVE STANDARD

CROSS HATCH BAR = 1ST MAX

CLEAR BAR = 2ND MAX

FIGURE 20

WASHINGTON CO ATTAINMENT TEST
QTR 2, 1988 THROUGH QTR 1, 1990
P1 - QTR2/1988-QTR1/1989--P2 - QTR2/1989-QTR1/1990
LINE = 'EFFECTIVE' LEVEL OF 8-HR CO NAAQS (9.5 PPM)



NUMBER = NUMBER OF EXCEEDANCES
 SOLID BAR = PORTION OF 2ND MAX ABOVE STANDARD
 CROSS HATCH BAR = 1ST MAX
 CLEAR BAR = 2ND MAX

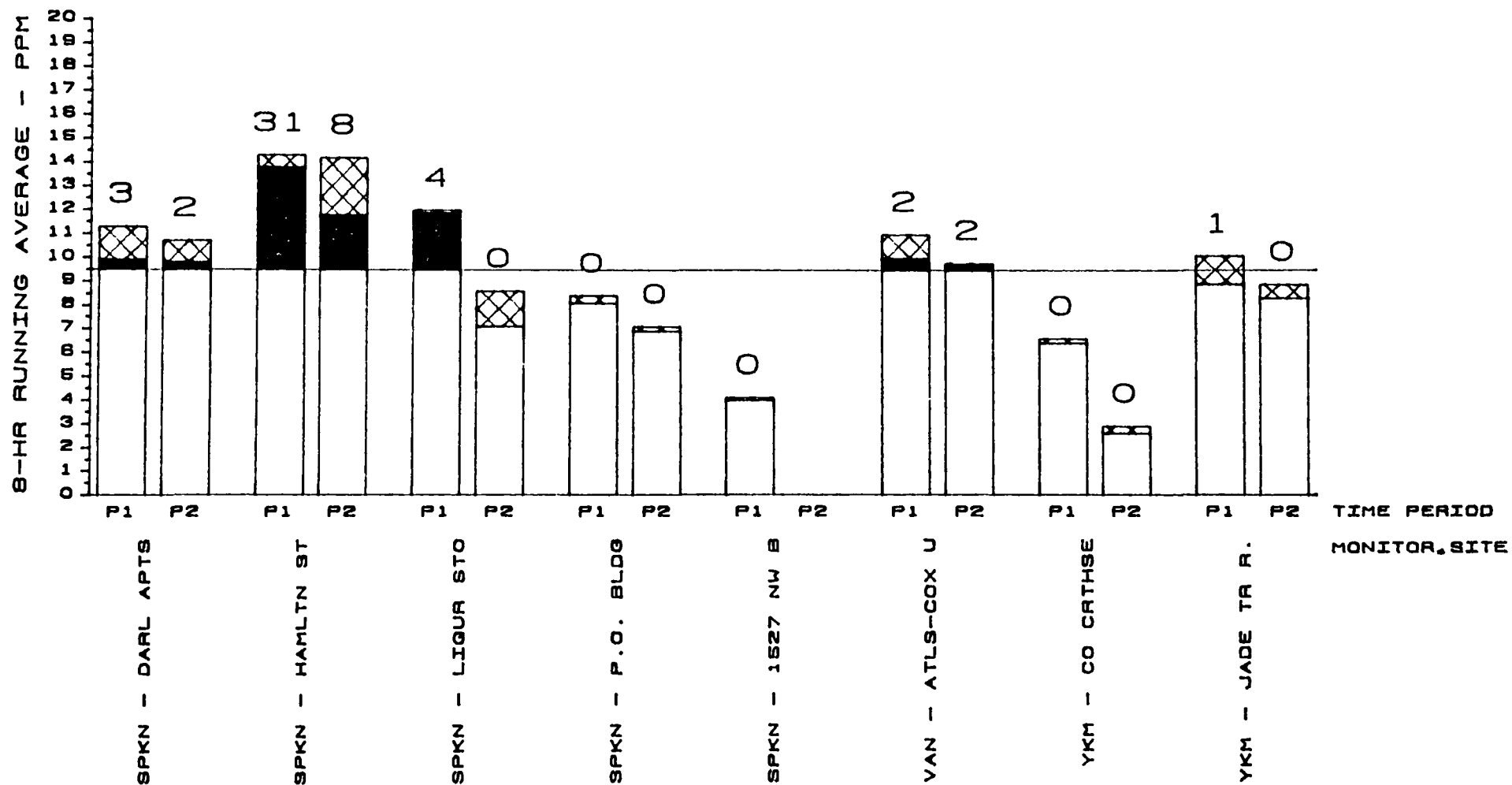
FIGURE 21A

WASHINGTON CO ATTAINMENT TEST

QTR 2, 1988 THROUGH QTR 1, 1990

P1 = QTR2/1988-QTR1/1989--P2 = QTR2/1989-QTR1/1990

LINE = 'EFFECTIVE' LEVEL OF 8-HR CO NAAQS (9.5 PPM)



NUMBER = NUMBER OF EXCEEDANCES

SOLID BAR = PORTION OF 2ND MAX ABOVE STANDARD

CROSS HATCH BAR = 1ST MAX

CLEAR BAR = 2ND MAX

FIGURE 21B

- *EPA REGION 10*
- *AIR MONITORING
NETWORK*
- *AUGUST, 1990*

E: (

ALASKA AIR MONITORING NETWORK
REVISED AUGUST 1990

RETRIEVAL DATE: 90/08/27

COUNTY/ CITY	AIR CODE	DOC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

TSP SITES					
ETCHIKAN GATEWAY RO ETCHIKAN	021300007	1	VALLEY PARK ELEM/1410 SCHOENBAR	SPM	01/90

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

CARBON MONOXIDE SITES					
ANCHORAGE BOROUGH ANCHORAGE	020200013	1	625 C STREET	SPM	01/75
	020200017	1	SPENARD & BENSON/2902 SPENARD RD	SLAMS	01/78
	020200013	1	TRINITY CHRISTIAN CHURCH/3000 E 16TH	SLAMS	01/79
	020200021	1	SAND LAKE DISTICT/3426 RASPREPRY RD	SLAMS	01/80
	020200037	1	SEWARD HWY & BENSON/3002 NEW SEWARD HWY	SPM	10/87
FAIRBANKS NORTH STAR FAIRBANKS	020900002	1	FEDERAL BLDG/2ND & CUSHMAN	SLAMS	01/72
	020900013	1	STATE OFFICE BLDG/675 7TH AVE	SLAMS	01/72
	020900020	1	HUNTER ELEM/17TH & GILLIAM WY	SLAMS	01/79

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

SULFUR DIOXIDE SITES					
SNAI PENINSULA BORO OT IN A CITY	021221001	1	BERNICE LAKE/AMBRYM AVE, NIKISHKA	SLAMS	10/88
TKA BOROUGH ITKA	022200007	1	THIMBLEBERRY BAY/105 SHOTGUN ALLEY	SLAMS	12/88

AGE: 0004

ALASKA AIR MONITORING NETWORK
REVISED AUGUST 1990

RETRIEVAL DATE: 90/08/27

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE
-----*-----*-----*-----*-----*-----*-----*-----*-----*					
NITROGEN DIOXIDE SITES					
KENAI PENINSULA BORO NOT IN A CITY	021221001	1	BERNICE LAKE/AMBRYM AVE, NIKISHKA	SLAMS	01/89

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

OZONE SITES					
IRON-KOYUKUK CA	022900001	1	DENALI NP	SPM	11/86

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE
PM10 SITES					
ANCHORAGE BOROUGH ANCHORAGE	020200005	2	CITY FIRE STATION/7TH & C ST	NAMS	10/87
	020200024	1	GAMBELL RD/1820 GAMBELL	SIAMS	01/88
NOT IN A CITY	020200039	1	18216 BARONOF ST, EAGLE RIVER	SLAMS	08/88
	020201001	2	PAPEGATE-EAGLE RIVER, EAGLE RIVER	SLAMS	10/87
FAIRBANKS NORTH STAR FAIRBANKS	020900010	2	675 7TH AVE	SLAMS	10/87
	020900025	2	HEITZ BLDG/AIRPORT WY & STACIA ST	SLAMS	01/88
	020900027	1	WEST PARK/STEELHEAD RD AT DARTMOUTH	SLAMS	12/88
JUNEAU BOROUGH JUNEAU	021100001	2	F DRYDEN JR HIGH/MENDENHALL LOOP RD	SLAMS	01/86
	021100015	1	LOT #6 PINE STREET-LEMON CREEK	SLAMS	10/87
	021100016	2	GLACIER AUTO(A)/MENDENHALL VILLAGE MALL	SLAMS	02/87
	021100019	1	TRJO STREET/3800 PORTAGE BLVD	SLAMS	10/89
	021100020	1	QUARTZ STREET/3731 QUARTZ STREET	SLAMS	04/90
ENAI PENINSULA BORO NOT IN A CITY	021221001	1	BEHNICE LAKE/AMBRYM AVE, NIKISHKA	SLAMS	10/88
ETCHIKAN GATEWAY BO ETCHIKAN	021300001	1	VALLEY PARK ELEM/1410 SCHOENBAR	SPM	01/90
ITKA BOROUGH ITKA	022200007	1	THIMBLEBERRY BAY/105 SHOTGUN ALLEY	SLAMS	10/89

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

TSP SITES					
DA CO BOISE CITY	160010001	1	WHITNEY FIRE STATION/9500 OVERLAND RD	SLAMS	01/72
	160010007	1	FIRE STATION #5/16TH & FRONT	SLAMS	01/81
	160010011	1	MTN VIEW SCHOOL/3500 CABBARTON LANE	SLAMS	01/85
ANNOK CO POCATELLO	160050001	1	STP/PATISTE & CHUBBUCK RD	SLAMS	01/68
UTTE CO NOT IN A CITY	160230001	1	CRATERS OF THE MOON, ARCO	SLAMS	01/58
ZZ PERCE CO LEWISTON	160690007	1	STATE OFFICE BLDG/1118 F ST	SLAMS	01/81
ROSHONE CO CELLOGG	160790006	1	MEDICAL CLINIC/204 OREGON	SLAMS	01/71

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE
LEAD SITES					
ADA CO BOISE CITY	160010000	1	FIRE STATION #5/16TH & FRONT	SLAMS	01/81
SHOSHONE CO FELLOGG	160790000	1	MEDICAL CLINIC/204 OREGON	SLAMS	01/71

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IDAHO AIR MONITORING NETWORK
REVISED AUGUST 1990

RETRIEVAL DATE: 90/08/24

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

CARRON MONOXIDE SITES					

DA CO					
BOISE CITY	160010007	1	ODD FELLOWS BLDG/115.2 N 9TH		

SLAMS 01/75

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

SULFUR DIOXIDE SITES					
BANNOCK CO POCATELLO	160050001	2	STP/BATISTE & CHURRUCK RD	SLAMS	01/81
CARIBOU CO SODA SPRINGS	160290027	1	CONDA RD/1.2 MILES E OF STATE 34	SLAMS	01/84

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IDAHO AIR MONITORING NETWORK
REVISED AUGUST 1990

RETRIEVAL DATE: 90/08/24

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

OZONE SITES					
DOTENAI CO COEUR D'ALENE	160550003	1	10969 RAMSEY RD (AIRPORT), COEUR D'ALENE	SPM	08/89
WHEE CO NOT IN A CITY	160738001	1	USDA ARS TICKBORNE DISEASE CENTER	SPM	04/89

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

PM10 SITES					
ADA CO BOISE CITY	160010000	1	PIPE STATION #5/16TH & FPONT	NAMS	01/86
	160010011	1	MTN VIEW SCHOOL/3500 CARRARTON LANE	NAMS	01/86
BANNOCK CO POCATELLO	160050000	1	STP/BATISTE & CHURBUCK RD	SLAMS	01/86
	160050000	1	CHURBUCK/5045 HAWTHORNE RD	SLAMS	04/88
BONNER CO SANDPOINT	160170000	1	SANDPOINT POST OFFICE	SLAMS	01/86
CARIBOU CO SODA SPRINGS	160290027	1	CONDA RD/1.2 MILES E OF STATE 34	SLAMS	01/86
COOTENAI CO COEUR D'ALENE	160550000	1	LAKES MIDDLE SCHOOL/930 N 15TH ST	SLAMS	10/87
ATAH CO MOSCOW	160570000	1	HIGH SCHOOL ANNEX BLDG-325 E 3RD	UNKNOWN	02/87
EL PERCE CO LEWISTON	160690000	1	STATE OFFICE BLDG/1118 F ST	SLAMS	01/86
HOSHONE CO NOT IN A CITY	160790017	1	PINEHURST SCHOOL, PINEHURST	SLAMS	01/86
MIN FALLS CO	160830000	1	HANSEN SCHOOL/208 S MAIN, HANSEN	SLAMS	02/89
TWIN FALLS	160830000	1	U. OF IDAHO RESEARCH CENTER	UNKNOWN	12/85

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE
TSP SITES					
JACKSON CO MEDFORD	410293001	1	MEDFORD CO COURTHOUSE/MAIN & OAKDALE	UNKNOWN	01/61
		2		SPM	01/61
LANE CO EUGENE	410390011	1	LANE COMM COLLEGE/1059 WILLAMETTE	SPM	06/80
JLTONOMAH CO PORTLAND	410510001	1	ROOSEVELT HIGH/6941 N CENTRAL AVE	SPM	01/70
	410510015	1	CENTRAL FIRE STATION/55 SW ASH	SPM	01/70
		2		SLAMS	01/70
	410510080	1	SE LAFAYETTE/5824 SE LAFAYETTE	SPM	01/88
	410510082	1	I-5 & FAILING ST/116 N FAILING ST	SPM	01/88
	410510081	1	I-205/96TH & SCHILLER	SPM	01/88

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

LEAD SITES					
JACKSON CO MEDFORD	410293001	4	MEDFORD CO COURTHOUSE/MAIN & OAKDALE	SLAMS	01/84
LANE CO EUGENE	410390013	1	LANE COMM COLLEGE/1059 WILLAMETTE	SLAMS	01/84
MULTNOMAH CO PORTLAND	410510009	5	TRANSCON/3182 NW 26TH	SPM	08/87
	410510015	2	CENTRAL FIRE STATION/55 SW ASH	SLAMS	01/84
	410510089	2	SE LAFAYETTE/5824 SE LAFAYETTE	NAMS	01/82
	410510082	1	I-5 & FAILING ST/116 N FAILING ST	NAMS	01/82
	410510081	1	I-205/96TH & SCHILLER	SPM	01/84

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

CARBON MONOXIDE SITES					
DESCHUTES CO BEND	41017000	1	BILL TAYLOR REALTY/934 NE 3RD	SPM	11/87
JACKSON CO MEDFORD	41029000	1	BROPHY BLDG/MAIN & CENTRAL	SLAMS	01/80
	41029001	1	ROUGE VALLEY MALL/1502 N RIVERSIDE	SPM	09/86
JOSEPHINE CO GRANTS PASS	41033000	1	WING BLDG/215 SE 6TH	SLAMS	01/81
KLAMATH CO KLAMATH FALLS	41035000	1	OPAL WATERS/2326 HOPE ST	SPM	03/87
LANE CO EUGENE	41039001	1	LANE COMM COLLEGE/1059 WILLAMETTE	SLAMS	01/80
	41039006	1	AMAZON PARK/499 E 29TH	SPM	01/88
MULTNOMAH CO PORTLAND	41051007	1	HOLLYWOOD ARCADE/SANDY BLVD	SLAMS	01/72
	41051007	1	NEWBERRY'S/SW 4TH & ALDER	NAMS	01/75
	41051008	1	SE LAFAYETTE/5824 SE LAFAYETTE	NAMS	12/80
	41051008	1	POSTAL BLDG/510 SW 3RD	SLAMS	12/87

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

SULFUR DIOXIDE SITES					
CLACKAMAS CO OREGON CITY	410050003	2	VFM MEMBER BLDG/VFW HALL-HWY 99 E	SPM	01/88
MULTNOMAH CO PORTLAND	410510071	1	STD OIL OF CALIF OFFICES/5531 NW DOONE	NAMS	01/73

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

NITROGEN DIOXIDE SITES					
	410510080	1	SE LAFAYETTE/5824 SE LAFAYETTE	NAMS	01/84
	410510242	1	6139 SE 13TH ST	SPM	06/89

COUNTY/ CITY	AIR CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

OZONE SITES					
CLACKAMAS CO MILWAUKIE	410052001	1	MILWAUKIE HIGH/11300 SE 23RD ST	NAMS	06/74
NOT IN A CITY	410050001	1	CARUS TRAILER/SPANGLER RD, CANBY	NAMS	07/76
	410051006	1	29388 HEIPLE RD, EAGLE CREEK	SPM	06/89
COLUMBIA CO	410090001	1	SAUVIE ISLAND-SSB/ROUTE 1, BOX 442	SLAMS	01/80
JACKSON CO	410290010	1	4624 S PACIFIC HWY, PHOENIX	SLAMS	01/82
KLAMATH CO	410358001	1	CRATER LAKE NATIONAL PARK	SPM	09/89
LANE CO EUGENE	410390060	1	AMAZON PARK/499 E 29TH	SPM	01/85
NOT IN A CITY	410391007	1	79980 DELIGHT VALLEY SCHOOL RD, SAGINAW	SLAMS	01/85

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE
PM10 SITES					
CLACKAMAS CO	410050001	1 6	CARUS TRAILER/SPANGLER RD, CANBY	SLAMS SLAMS	01/83 01/88
DESCHUTES CO BEND	410170001	1	KENWOOD GRADE SCHOOL/701 NW NEWPORT	SLAMS	11/87
JACKSON CO MEDFORD	410292129	1	711 WELCH ST	SLAMS	08/89
	410293001	1 4 7	MEDFORD CO COURTHOUSE/MAIN & OAKDALE	SLAMS SLAMS SPM	01/83 10/87 10/87
WHITE CITY	410292001	1 3	LAY RES/6805 AGATE RD	SLAMS SPM	11/85 12/87
	410294001	1 4	POST OFFICE/751 CRATER LAKE HWY	SLAMS SPM	01/85 10/87
JOSEPHINE CO GRANTS PASS	410330001	1	11TH & K (GPK)/INTERSECTION 11TH & K ST	SLAMS	01/85
KLAMATH CO KLAMATH FALLS	410350001	1	PETERSON ELEM/4856 CLINTON ST	SLAMS	01/86
LANE CO EUGENE	410390011	1 4	LANE COMM COLLEGE/1059 WILLAMETTE	SLAMS SLAMS	01/85 01/88
	410390051	1 2	KEY BANK/450 PACIFIC HWY N	SLAMS NAMS	01/85 01/88
	410390060	2	AMAZON PARK/499 E 29TH	SPM	10/89
NOT IN A CITY	410392001	1	47674 SCHOOL ST	SPM	11/89
SPRINGFIELD	410391009	1	CITY HALL/225 N 5TH	SLAMS	04/88
LINN CO NOT IN A CITY	410430001	3	1805 NE OLD SALEM RD, MILLERSBURG	SPM	11/87
MULTNOMAH CO PORTLAND	410510001	1 2	ROOSEVELT HIGH/6941 N CENTRAL AVE	SPM SPM	01/88 01/88
	410510011	7	CENTRAL FIRE STATION/55 SW ASH	NAMS	04/88

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

PM10 SITES					
	410510080	1	SE LAFAYETTE/5824 SE LAFAYETTE	SPM	01/84
		6		NAMS	09/87
UMATILLA CO PENDLETON	410590002	4	STATE OFFICE BLDG/700 SE EMIGRANT ST	SLAMS	10/87
UNION CO LA GRANDE	410610006	2	DOCKWILER'S RES (LDR)/161 N WILLOW	SLAMS	02/86

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE
TSP SITES					
CLALLAM CO SEQUIM	53009100	1	FIRE STATION-148 W CEDAR	UNKNOWN	/
KING CO AUBURN	530330003	1	HEALTH DEPT/115 E MAIN ST & AUBURN AVE	SLAMS	01/71
NOT IN A CITY	53033001	1	MAURY ISLAND #2/SW 283RD & 101ST ST SW	SLAMS	10/83
	530330016	1	DUWAMISH VALLEY/12026 42ND AVE S	SLAMS	10/73
SEATTLE	530330011	1	LDS CHURCH/5701 8TH AVE NE	SLAMS	09/80
	530330057	1	DUWAMISH PUMP STA/4752 E MARGINAL WY S	SLAMS	08/71
	530330065	1	HARBOR ISLAND TEXACO/2555 13TH AVE SW	SPM	01/83
	530330079	1	DOT HIGHWAY DEPT/6431 CORSON AVE S	SLAMS	03/79
MASON CO SHELTON	530450003	1	PUD BLDG/3RD & COTA ST	SLAMS	01/76
PACIFIC CO RAYMOND	530490001	1	CITY SHOPS/1ST & COMMERCIAL	SLAMS	01/69
PIERCE CO SUMNER	530531001	1	SUMNER JR HIGH/1508 WILLOW	SLAMS	06/78
TACOMA	530530006	1	CASCADIA/2002 E 28TH ST	UNKNOWN	01/70
		2		SLAMS	01/70
	530530015	1	WILLARD ELEM/S 32ND ST & S "D" ST	SLAMS	02/73
	530530023	1	RUSTON SCHOOL/5219 N SHIRLEY ST	SLAMS	09/83
	530531001	1	FIRE STATION #12/2316 E 11TH ST	SLAMS	08/67
SKAGIT CO MOUNT VERNON	530572001	1	NWAPA OFFICE/207 PIONEER BLDG	SLAMS	01/75
SPOKANE CO SPOKANE	530630016	1	CROWN ZELLERBACH/E 3530 FERRY	SLAMS	04/72
WALLA WALLA CO NOT IN A CITY	530711001	1	GRUBB FARM/WALLULA JUNCTION	SLAMS	01/83
YAKIMA CO SUNNYSIDE	530770003	1	SUNNYSIDE SCHOOL/16TH ST & FACTORY RD	SLAMS	12/78

AGE: 0002

WASHINGTON AFB MONITORING NETWORK
REVISED AUGUST 1990

PETRIEVAL DATE: 90/08/27

COUNTY/
CITY

AIRS CODE

POC
CODE

STREET ADDRESS

MONITORING
TYPE

START
DATE

TSP SITES

YAKIMA

530770001

1

YAK VALLEY JR COLL/KNOB HILL & 16TH AVE

SLAMS

09/83

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

LEAD SITES					
KING CO SEATTLE	530330011	1	LOS CHURCH/5701 8TH AVE NE	NAMS	01/79
	530330065	1	HARROP ISLAND TEXACO/2555 13TH AVE SW	SLAMS	01/83
PIERCE CO TACOMA	530530021	1	RUSTON SCHOOL/5219 N SHIRLEY ST	SLAMS	04/85

COUNTY/ CITY	AIR CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE
CARBON MONOXIDE SITES					
CLARK CO VANCOUVER	530110010	1	ATLAS-COX UPHOLST/2101 E 4TH PLAIN BLVD	SLAMS	01/83
KING CO BELLEVUE	530331003	1	STURTEVANT'S SPORTS/622 BELLEVUE WY	SLAMS	01/79
SEATTLE	530330050	1	SEATTLE MUNICIPAL BLDG/5TH & JAMES	SLAMS	01/71
	530330077	1	4TH & PIKE BLDG/417 PIKE	NAMS	04/77
	530330083	1	NORTHGATE APTS/310 NE NORTHGATE WY	SLAMS	01/81
	530330085	1	U OF W PUMP BLDG/1960 NE PACIFIC AVE	SPM	01/87
PIERCE CO TACOMA	530530030	1	PACIFIC AVE/1101 PACIFIC AVE	SLAMS	12/83
SNOHOMISH CO EVERETT	530610012	1	ERICKSON'S #2/2019 HEWITT AVE	SLAMS	04/87
SPOKANE CO SPOKANE	530630023	1	POST OFFICE BLDG/W 904 RIVERSIDE	SLAMS	01/76
	530630029	1	DARL APTS/N 2528 DIVISION ST	SLAMS	01/76
	530630040	1	HAMILTON ST/N 1226 HAMILTON ST	SLAMS	12/83
	530630043	1	N. 1227 DIVISION (BACKDOOR TAV), SPOKANE	SPM	12/89
	530630044	1	W. 423 3RD AVE. (EMPIRE FORD), SPOKANE	SPM	12/89
	530630045	1	W 1002 RIVERSIDE (SPOKANE CLUB), SPOKANE	SPM	05/90
YAKIMA CO YAKIMA	530770010	1	JANE TREE RESTAURANT/YAKIMA & S 2ND ST	SLAMS	01/83

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE
SULFUR DIOXIDE SITES					
CLALLAM CO NOT IN A CITY	530090012	1	OLYMPIC NP	SPM	11/82
PORT ANGELES	530090001	1	1036 E 1ST, PORT ANGELES	SLAMS	05/80
	530090010	1	3RD & CHESTNUT/250 CHESTNUT ST	SLAMS	01/80
CLARK CO CAMAS	530110011	1	920 NW HILL ST. (ARMORY BLDG.), CAMAS	SPM	11/89
GRAYS HARBOR CO HOQUIAM	530270003	1	POSEY MANUFACTURING/FOOT OF ONTARIO ST	SLAMS	06/84
NOT IN A CITY	530270006	1	SCHOOL BUS GARAGE/112 2ND ST, COSMOPOLIS	SLAMS	02/84
KING CO SEATTLE	530330057	2	DUWAMISH PUMP STA/4752 E MARGINAL WY S	NAMS	08/71
PIERCE CO TACOMA	530530021	1	NE TACOMA/27TH ST & 54TH AVE NE	NAMS	06/85
	530530031	1	ALEXANDER AVE/2301 ALEXANDER AVE	NAMS	02/87
SKAGIT CO NOT IN A CITY	530571003	1	MARCH PT-KIESSER/ROUTE 2 - BOX 710	SLAMS	01/71
NOVOMISH CO EVERETT	530610016	1	HOTT AVE & 26TH STREET, EVERETT	SLAMS	11/89
WHATCOM CO BELLINGHAM	530730011	1	CHESTNUT ST/CENTRAL & CHESTNUT ST	SLAMS	01/83

COUNTY/ CITY	AIR CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE
OZONE SITES					
CLALLAM CO NOT IN A CITY	530090012	1	OLYMPIC NP	SPM	11/82
CLARK CO VANCOUVER	530110011	1	MT VIEW SCHOOL/1500 SE BLAIRMOUNT DR	SLAMS	05/88
KING CO BELLEVUE	530330010	1	LAKE SAMMAMISH STATE PARK/20050 SE 56TH	NAMS	12/75
ENUMCLAW	530337001	1	WEYERHAEUSER MILL/MAIN OFFICE BLDG	SPM	08/85
NOT IN A CITY	530330013	1	2.3 MI E OF CEDAR R BRIDGE & 276TH AV SE	SPM	04/89
	530330083	1	27510 SE KENT-KANGLEY RD(FS), RAVENSDALE	SLAMS	05/90
PIERCE CO	530531011	1	CARRON R RNAGER STN, MT RAINIER NAT'L PK	SPM	05/89
TACOMA	530531003	1	PACK FOREST/.6 MI N OF LAGRANDE ON HWY 7	SLAMS	05/85
SPOKANE CO NOT IN A CITY	530630044	1	E 9814 GREENBLUFF RD(FIRE STN)GREENBLUFF	SPM	04/90
WHATCOM CO	530730005	1	1330 LOOMIS TRAIL RD(FCC SITE), CUSTER	SPM	04/89

COUNTY/ CITY	AIRS CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE

PM10 SITES					
ASOTIN CO CLARKSTON	530030001	2	CF ADAMS HIGH/5TH & CHESTNUT	SLAMS	07/88
BENTON CO KENNEWICK	530050001	2	COLUMBIA CENTER/556 COLUMBIA CENTER BLVD	NAMS	07/88
CHELAN CO WENATCHEE	530070001	1	SEXTON BLDG/1300 5TH ST	SLAMS	10/88
CLALLAM CO FORKS	530092002	1	PENINSULA TEL/1ST AVE NE & CALAWAH WY	SPM	04/90
PORT ANGELES	530090003	1	CITY LIGHT BLDG/FRONT & CHERRY	SLAMS	06/89
CLARK CO VANCOUVER	530110012	1	3103 IWR RIVER RD (PT OF VANC), VANCOUVER	SLAMS	01/90
	530110013	1	8205 E 4TH PLAIN BLVD(MOOSE), VANCOUVER	SPM	03/90
COWLITZ CO LONGVIEW	530150001	1	CITY SHOPS/254 OREGON WY	UNKNOWN	01/86
		2		SLAMS	08/88
GRAYS HARBOR CO ABERDEEN	530270001	1	820 WILLARD (STEWART FIELD), ABERDEEN	SIM	04/90
KING CO BELLEVUE	530330001	2	WEST & MUSELEP BLVD/504 BELLEVUE WY	NAMS	07/88
KENT	530332001	2	JAMES & CENTRAL/JAMES ST & CENTRAL AVE	NAMS	04/88
LAKE FOREST PARK	530330004	1	17711 BALLINGER WY NE, LAKE FOREST PARK	SLAMS	06/89
SEATTLE	530330051	3	DUWAMISH PUMP STA/4752 E MARGINAL WY S	NAMS	04/88
	530330061	2	HARBOR ISLAND/3400 13TH AVE SW	NAMS	04/88
	530330063	3	SOUTH PARK/723 S CONCORD	NAMS	04/88
PIERCE CO TACOMA	530530011	3	TAYLOR WAY/2340 TAYLOR WY	NAMS	04/88
	530530021	2	NE TACOMA/27TH ST & 54TH AVE NE	NAMS	04/88
	530530031	2	ALEXANDER AVE/2301 ALEXANDER AVE	SLAMS	04/88
	530531001	3	FIRE STATION #12/2316 E 11TH ST	NAMS	01/88

COUNTY/ CITY	AIR CODE	POC CODE	STREET ADDRESS	MONITORING TYPE	START DATE
PM10 SITES					
SNOHOMISH CO EVERETT	530610016	1	HOYT AVE & 26TH STREET, EVERETT	SLAMS	10/89
MARYSVILLE	530610017	1	514 DELTA AVE (CITY HALL) MARYSVILLE	SPM	11/89
SPOKANE CO NOT IN A CITY	530631011	2	COUNTRY HOMES/N 8217 WALL ST	NAMS	07/88
	530632002	1	CITY HALL/E 9103 FREDERICK, MILLWOOD	SLAMS	07/88
SPOKANE	530630016	3	CROWN ZELLERBACH/E 3530 FERRY	NAMS	07/88
		4		SLAMS	07/88
	530630036	2	AUTO GLASS/S 214 POST	NAMS	07/88
THURSTON CO LACEY	530670013	1	MT VIEW ELEM/1900 COLLEGE ST SE	UNKNOWN	01/85
		2		SLAMS	08/88
OLYMPIA	530670001	1	SCHAEFER BLDG/120 E STATE AVE	SLAMS	01/89
WALLA WALLA CO NOT IN A CITY	530711001	2	NEDROW FARM/WALLULA JUNCTION	SLAMS	08/88
WALLA WALLA	530710005	1	200 S 12TH (FIRE STN), WALLA WALLA	SPM	05/89
HATCOM CO BELLINGHAM	530730015	1	YEW ST CENTER/2412 YEW ST	SLAMS	09/88
YAKIMA CO YAKIMA	530770003	1	YAK VALLEY JR COLL/FNOB HILL & 16TH AVE	UNKNOWN	01/85
		2		SLAMS	07/88
	530770011	1	612 N 6TH AVE (GARFIELD SCH), YAKIMA	SPM	09/89
	530770012	1	FNOB HILL & 16TH (YVCC-SUNDQUIST), YAKIMA	SLAMS	12/89