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ATLANTIC COAST UNIQUE REGIONAL ATMOSPHERIC TRACER EXPERIMENT (ACURATE)

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TABLE OF CONTENTS

Page

ABSTRACT

1. INTRODUCTION 1

2. SOURCE 2

2.1 Source Site 2
2.2 Source Emission Determination 2
2.3 Emission Rates 2

3. SAMPLING 4

3.1 Sampling Sites 4
3.2 Sampling Collection and Processing 4
3.3 Concentrations 6

4. METEOROLOGY 12

4.1 Local Meteorological Data 12
4.2 Surface Meteorological Data 12
4.3 Upper-air Meteorological Data 14

5. ACKNOWLEDGEMENTS 14

6. REFERENCES 14

APPENDIX A - SOURCE EMISSION RATES A-1

APPENDIX B - MEASURED SURFACE AIR CONCENTRATIONS B-1

APPENDIX C - ACURATE DATA TAPE C-1

ATLANTIC COAST UNIQUE REGIONAL ATMOSPHERIC TRACER EXPERIMENT (ACURATE)

ABSTRACT

The Atlantic Coast Unique Regional Atmospheric Tracer Experiment (ACURATE) was conducted to provide a long-range, long-term data set on the regional scale for air pollution model development and evaluation. ACURATE, which started in March 1982 and ended after 19 months in September 1983, used Kr-85 emitted intermittently from the Savannah River Plant (SRP), SC as a tracer of opportunity. Hourly source emission data are archived on an ACURATE data tape and listed in an appendix. Surface air samples were taken at five sites along the Atlantic Coast, located about 300 to 1100 km from the SRP (twice-daily samples at the four closest sites and daily at the fifth site). A total of 3858 measured concentrations were quality assured and are archived on the data tape. About 750 of the concentrations were attributed directly to the SRP plume. The concentration distributions at the five sampling sites are shown. All measured concentrations are given in an appendix. Upper-air, tower, and surface meteorological data were also collected during ACURATE and are archived on the data tape.

1. INTRODUCTION

The Atlantic Coast Unique Regional Atmospheric Tracer Experiment (ACURATE) was conducted by the National Oceanic and Atmospheric Administration/Air Resources Laboratory and the Savannah River Laboratory to provide data on the regional scale for air pollution model development and evaluation. The models are used for many purposes which include assessing the effects of energy usage on man and the environment (e.g., acid rain and other hazards evaluation studies), determining the cost-effectiveness of airborne nuclear waste management, and monitoring gaseous releases to the atmosphere. Past tracer experiments on the regional scale, using known emission rates from a source, have generally been limited to a few individual episodes (e.g., Ferber, et al., 1984) because of the high costs of sample collection and analysis over extended periods of time. ACURATE provides air pollution researchers with a unique, long-term data set of tracer emission rates from a single source, regional-scale measured tracer air concentrations with plumes attributed to the source, and meteorology.

This program is an extension to the regional scale of the 2½-year mesoscale Savannah River Experiment (Telegadas, et al., 1980). ACURATE, which started in March 1982 and ended in September 1983, used Kr-85 emitted intermittently from the Savannah River Plant (SRP), SC as a tracer of opportunity. Because Kr-85 is an inert, non-reactive gas, its use as a tracer enables one to study the effects of atmospheric transport and diffusion free of the complications introduced by wet and dry deposition and chemical transformations. Volunteers at five sampling sites along the Atlantic Coast, located about 300 to 1100 km from the SRP, took twice-daily surface air samples (daily at the 1100 km site) using cryogenic air samplers similar to those used in the Savannah River Experiment. A total of 3858 measured concentrations over the 19-month sampling period were quality assured. The SRP plume was observed on about 750 measurements (20%).

Meteorological observations at surface and upper-air stations over the eastern U.S. were archived during the ACURATE sampling period. In addition, tower winds at the SRP were spatially averaged and archived as source meteorological data.

2. SOURCE

2.1 Source Site

The Savannah River Plant is a production facility of the U.S. Department of Energy and is located about 35 km southeast of Aiken, SC. Krypton-85 is intermittently released from plant chemical separation operations through one 62 m stack in the 200-F area and one in the 200-H area with mid-location at 33.28°N, 81.66°W (see Fig. 1).

2.2 Source Emissions Determination

A model that predicts the hourly rate of Kr-85 vented to the atmosphere when irradiated fuel is dissolved at the SRP has been developed (Pendergast, 1978). This model was used to calculate the hourly emissions of Kr-85 released to the atmosphere for each fuel dissolution cycle.

In order to verify the calculated emissions, Kr-85 stack monitoring systems were installed in both stack areas. A vacuum-pressure pump was used to pump a fraction of the dissolver off-gas into a flow-through sample chamber. The sample chamber, which was mounted on a detector, recorded the gamma spectrum of the gas pumped through the chamber. The off-gas gamma spectrum was then analyzed for the Kr-85 energy peak. The measured and calculated Kr-85 emission values agree well.

2.3 Emission Rates

Emission rates for the SRP source are given in Appendix A. A record of hourly emissions is given for each 12-hour period. The appendix contains a total of 1158 records starting March 1, 1982 and ending September 30, 1983. The start of a 12-hour period is identified by an 8-digit date-time number, 2 digits each for year (YR), month (MO), day (DY) and hour (HR-GMT). Thus 82032512 (record #50) denotes the 12-hour period starting March 25, 1982 at 12 GMT. Following the start date-time group are 12 emission rates, in Ci/hr, for the 12-hour period after start. The remaining columns on the right (the 12-hour emission rate totals and the histogram) have been added for ease of visual comprehension and simplicity of comparison with the twice daily (12-hour) measured concentrations (Appendix B).

FILE 1 on the ACURATE data tape is the source emission file (see Appendix C). The file contains 1158 records where each record includes a record #, start date-time identification, and emission rates in Ci/hr for the 12-hour period after start. A FILE 1 tape dump should exactly match the left-hand portion of Appendix A below the column headings.

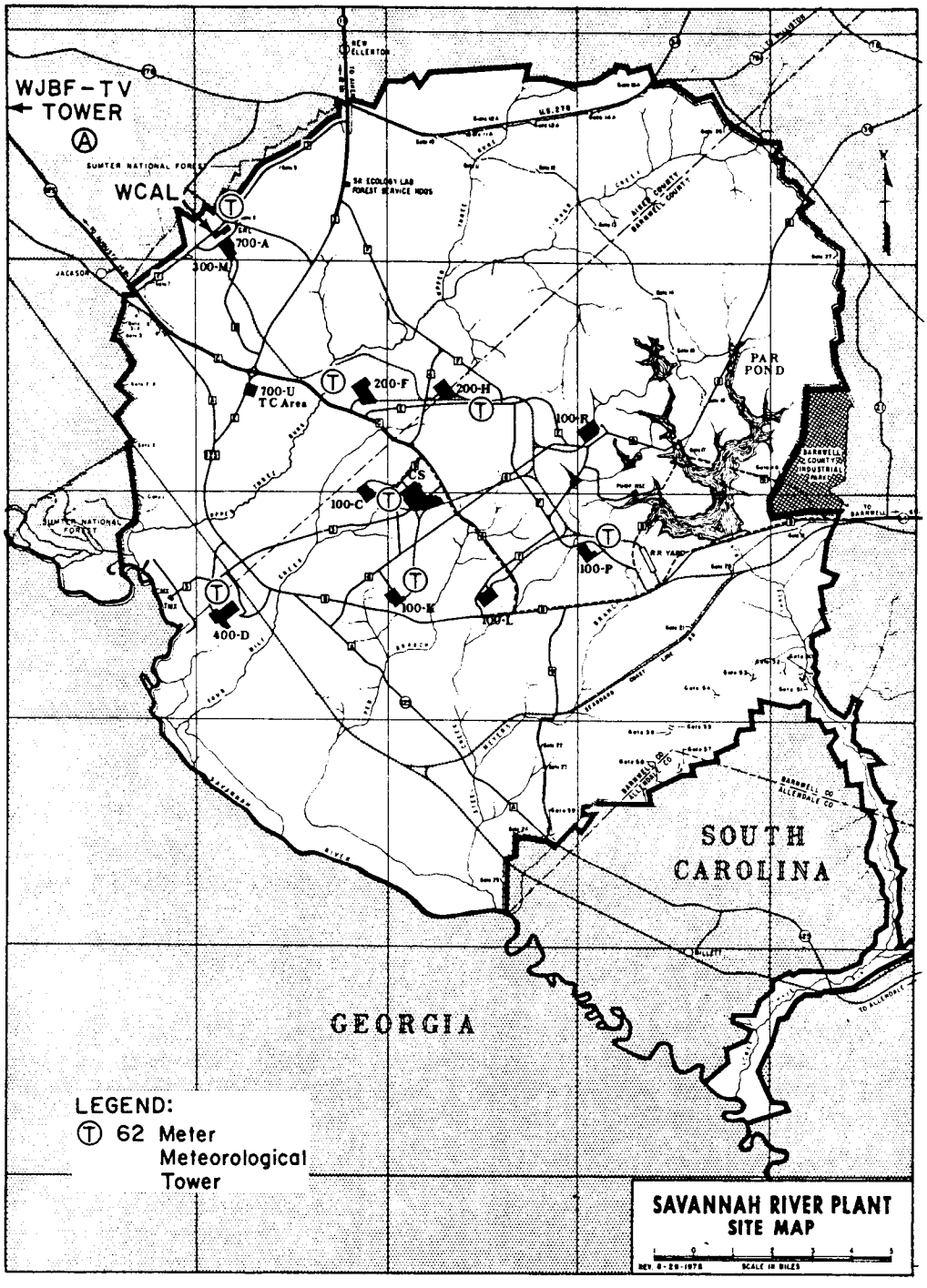

Figure 1. Savannah River Plant Site Map.

3. SAMPLING

3.1 Sampling Sites

Five surface air sampling sites along the Atlantic Coast were established for ACURATE. Table 1 gives the sites (and source), with their identification, location and distance from the SRP.

Table 1. ACURATE surface air sampling sites (and source).

Sampling Site	Code	Description	Location °N	Location °W	Distance from SRP (km)
Fayetteville, NC	FAY	Fire station	35.07	78.89	325
Tarboro, NC	TAR	Water Treatment Plant	35.91	77.55	475
Norfolk, VA	NOR	Water Treatment Plant	36.85	76.27	635
Salisbury, MD	SAL	Water Treatment Plant	38.37	75.59	790
Murray Hill, NJ	MUR	Laboratory	40.68	74.40	1050
Source					
Savannah River Plant	SRP	Production Facility	33.28	81.66	0

The ACURATE source and five sampling site locations are shown in Fig. 2.

3.2 Sample Collection and Processing

A cryogenic air sampler (CAS) was installed at each sampling site. The samplers were operated and monitored on a 24-hour/day schedule by volunteer personnel. Maintenance was performed by a contractor laboratory at regular time intervals and at the request of the site personnel.

The CAS concentrates krypton in the atmosphere from about one part per million to about one part per hundred. Air is supplied to the sampler by a compressor at the rate of about 12 liters/minute. Concentration is brought about by cryogenic fractionation of the incoming airstream. Liquid nitrogen is used as the source of refrigeration.

The final sample, having a volume of about 1.5 liter (STP), contains most of the components of the atmosphere that have boiling points higher than that of oxygen. Atmospheric moisture, carbon dioxide and hydrocarbons heavier than methane are removed by molecular sieve traps from the airstream before it enters the cryogenic section of the collector. These latter materials otherwise would rapidly plug the inside of the fractionating column, since they freeze at much higher temperatures than the boiling point of liquid oxygen.

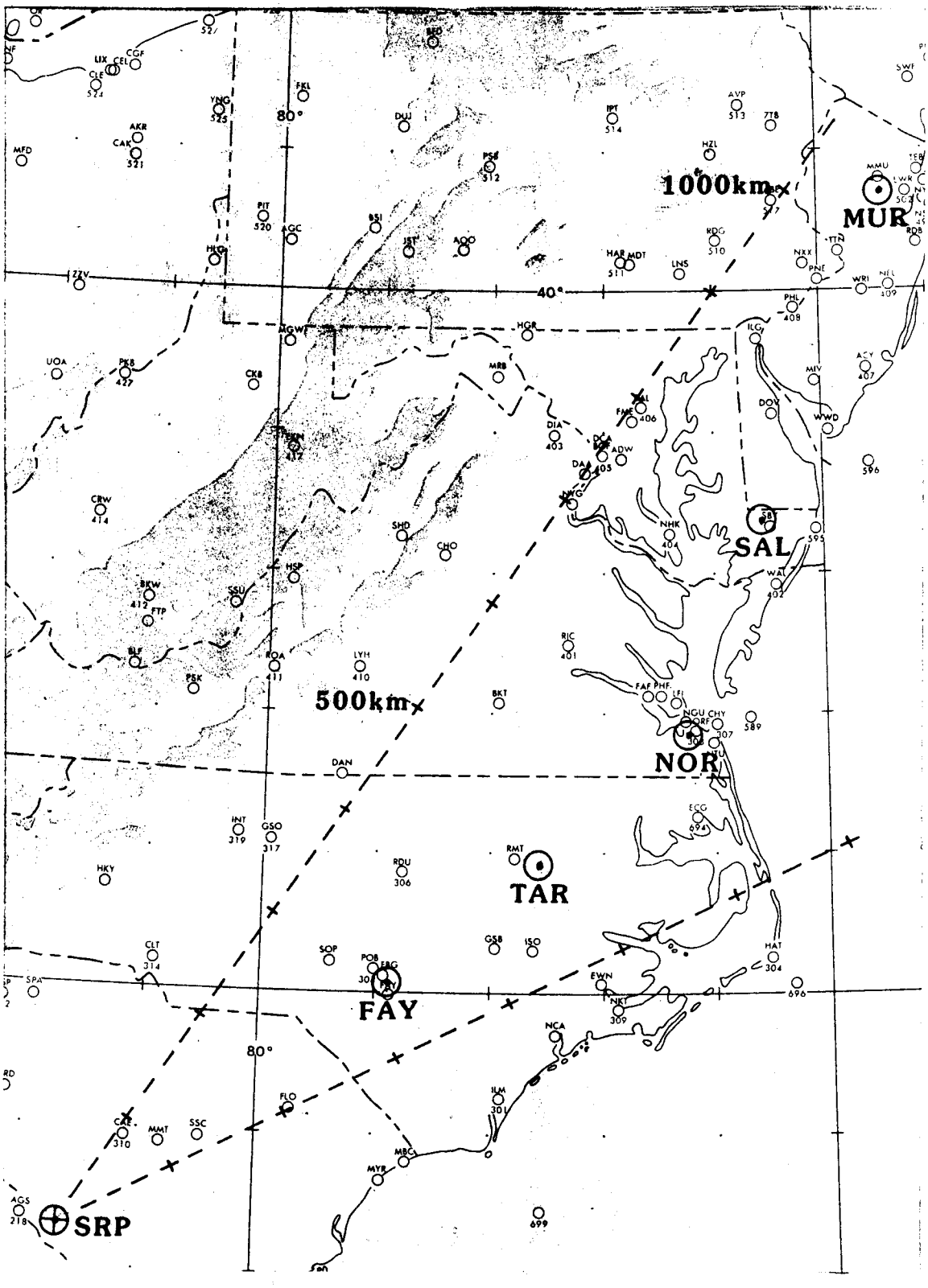

Figure 2. ACURATE source (SRP) and the five sampling site locations.

Four of the CAS units (at FAY, TAR, NOR, SAL) were programmed with a two-sample-per-day cycle, each cycle having an eleven-hour collection period and a one-hour sample recovery period. The other CAS unit (at MUR), was programmed with a one-sample-per-day cycle.

The effective length of the collection period is less than the clock length by about forty-five minutes to an hour and fifteen minutes. This is the time required for the column to cool down and reach steady state operation. At the end of the collection period incoming air flow is cut off. In the sample recovery phase the liquid at the bottom of the fractionating column is warmed, causing it to evaporate. The sample mixture, which consists mostly of oxygen with higher atmospheric boiling components, is collected in a steel bottle that has a volume of approximately one liter.

The samples were shipped from the sampling sites to the contractor laboratory for further purification and assay. Krypton was isolated from the sample mixture by preparative gas chromatography to give a highly purified (about 99.98% krypton) final sample. This product was then radio-assayed by Geiger counting to determine the level of Krypton-85 activity in the sample. The estimated standard deviation of this measurement is about 1%.

Quality assurance procedures were performed on the data to assure that they orginated from the site and time indicated. Sampling logs kept independently by site personnel were checked against each sample measurement from the contractor laboratory. If differences were not resolved, the measurement was discarded.

3.3 Concentrations

The daily and twice-daily measured surface air concentrations during the entire 19-month ACURATE period for the five sampling sites are given in Appendix B. Similar to the format of Appendix A (source), a record is given for each 12-hour period for a total of 1158 records. Also, the start of each period is identified by an 8-digit date-time number. Following in the table are the measured concentrations (0.1 pCi/m^3) for each of the five sampling sites. (Records 268 and 628 for FAY shown as 999 due to format restrictions should be 1353 and 1664, respectively.) A zero (0) indicates a missing measurement due to one of many causes which could include a malfunctioning sampler, a sample lost in analysis, or an unresolved discrepancy in sample origin or sample time. A plus following a concentration value indicates the 12-hour sample was continued beyond 12 hours, a minus indicates the continuation. For example, records 54 through 57 for NOR indicate the 12-hour sample that began at 82032714 (195+) continues over 36 additional hours (three more 12-hour values shown as 195-) for a total sample duration of 48 hours. Note that MUR has alternate plus and minus notation indicating regular daily (24-hour) sampling. One additional code has been added to the values for completeness. Letters preceding a value indicate a late sample start; those following indicate a late sample end; A is for one hour; B for two hours, etc. Thus, record 78 for NOR indicates the measurement (D190B) started four hours late (April 8, 1982 at 18 GMT) and ended two hours late (April 9, 1982, 04 GMT) for a total measurement time of 10 hours rather than 12 hours. A total of 3858 samples (non-zero) were archived for ACURATE.

In order to identify the SRP plume, a concentration background must be subtracted from the measured concentration values. Since background may vary on a day-to-day basis by as much as 10% with changing meteorological conditions, it is often difficult to distinguish between background and a plume at low concentration.. To avoid determining variable background, a Background Upper Limit (BUL) has been estimated for each sampling site above which it seems reasonable to assume that the SRP plume is contributing to the measured concentration. Concentration values at or below the BUL usually indicate no presence of the SRP plume, but occasionally may be linked to the plume with caution (an example is discussed later). The BUL was determined by plotting measured concentration versus cumulative percent on a probability scale and noting that lower concentrations (background) lie along a straight line (see Fig. 3). At some point the plotted values deviate from the line toward higher concentrations. This deviation from the normal distribution is attributed to SRP pluming and the concentration value at the point of deviation is defined as the BUL. In order to test this technique on an independent data set, a plot is included in Fig. 3 for twice-daily measurements at the Augusta, GA (AUG) sampling site of the Savannah River Experiment (Telegadas, et al., 1980). This site was chosen because it had the most complete sampling record during the 1976-1977 twice-daily sampling periods. A BUL value is clearly evident at 16.0 pCi/m^3.

BUL concentrations suggested for the ACURATE sampling sites are given in Table 2. The increase with increasing latitude is consistent with the known worldwide increase with latitude of Kr-85 background.

Table 2. Background Upper Limit (BUL) Concentrations at ACURATE Sampling Sites.

Sampling Site	BUL (pCi/m^3)
MUR	19.3
SAL	19.2
NOR	19.1
TAR	19.0
FAY	19.0

As an example of determining plume concentration, record 54 in Appendix B for FAY gives a measured concentration of 19.3 pCi/m^3. When the BUL value of 19.0 for FAY (from Table 2) is subtracted from the measured concentration, the remaining concentration of 0.3 pCi/m^3 is attributed to the SRP plume. About 750 of the concentrations were above the BUL and, therefore, attributed directly to the SRP plume.

Figure 4 shows concentration distributions for the five ACURATE sampling sites (i.e., measured value minus the BUL value). The distributions include no-plume (zero) and plume ($\geq$ 0.1 pCi/m^3 by interval) concentrations. Researchers can refer directly to Fig. 4 for model evaluation studies.

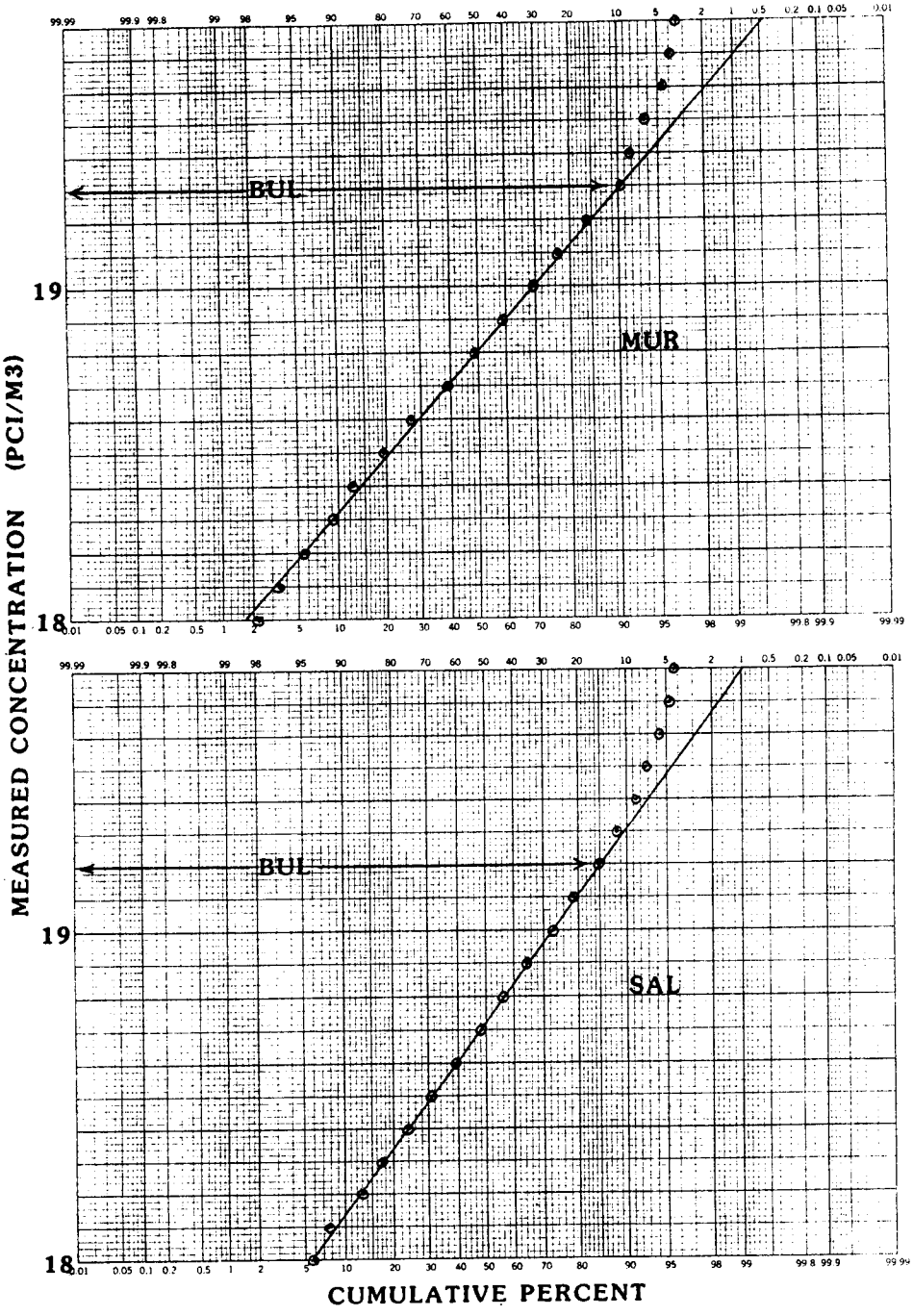

Figure 3. Determination of a Background Upper Limit (BUL) concentration at the five ACURATE sampling sites and at the Augusta, GA site (AUG) of the Savannah River Experiment.

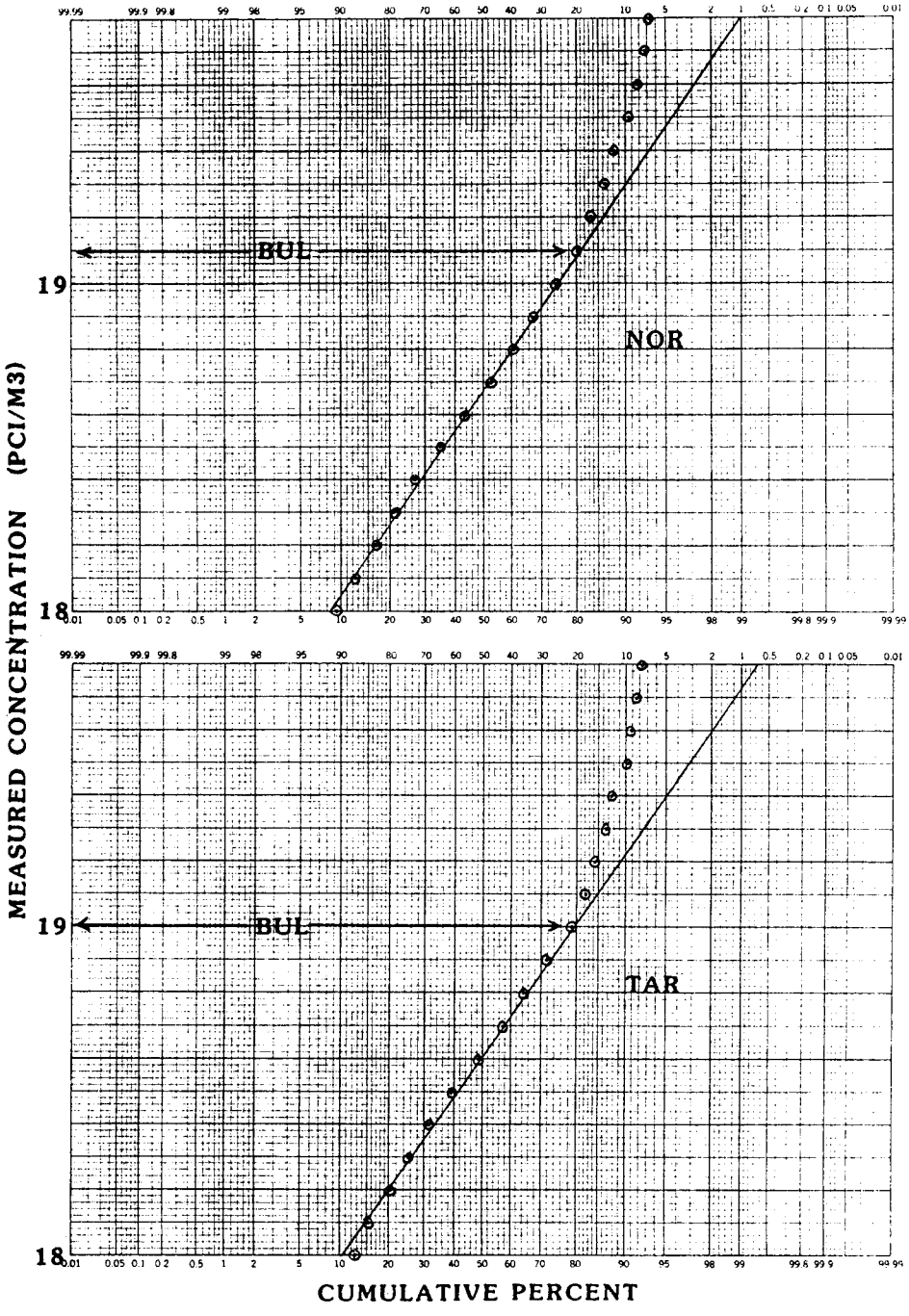

Figure 3. (continued)

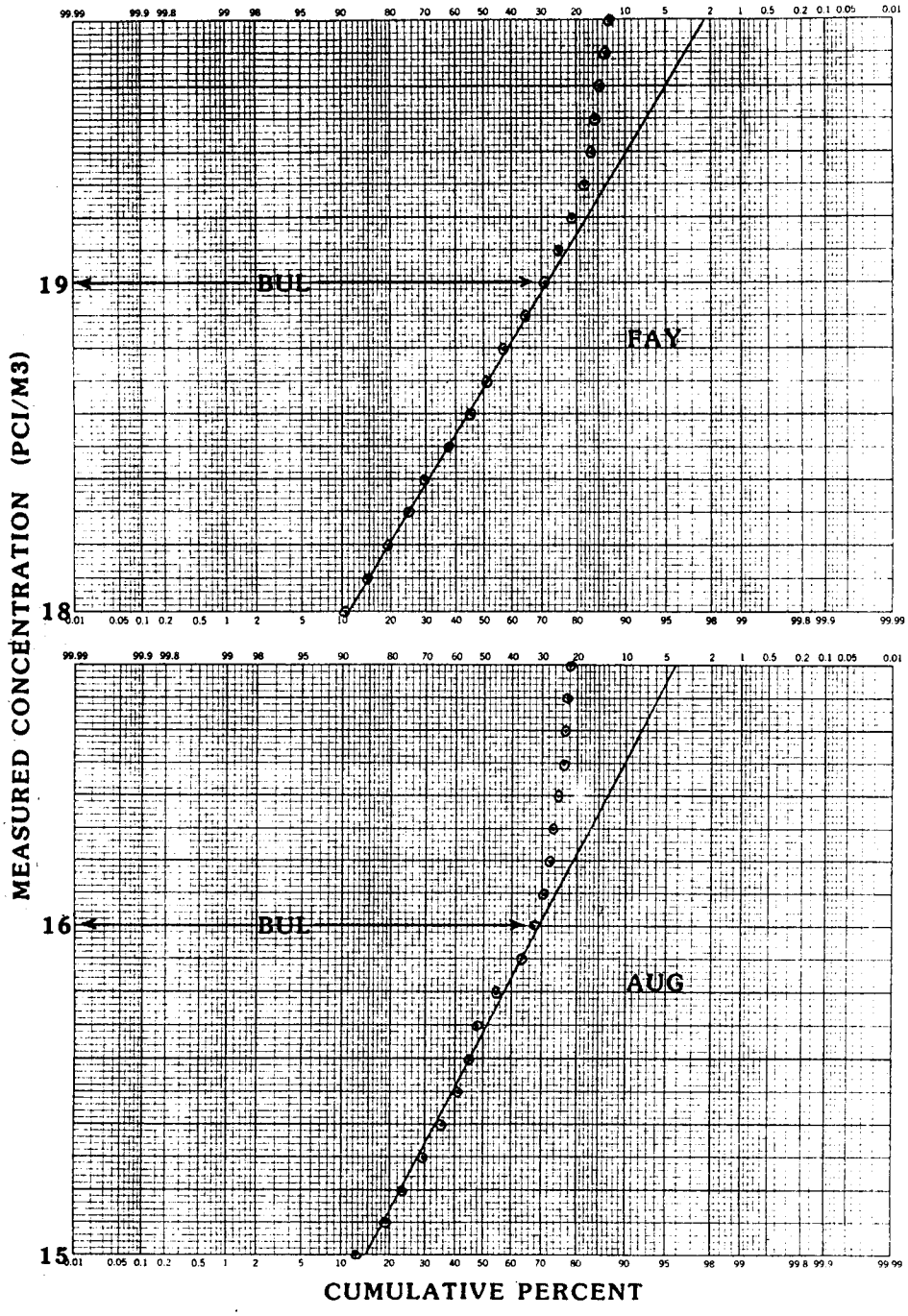

Figure 3. (continued)

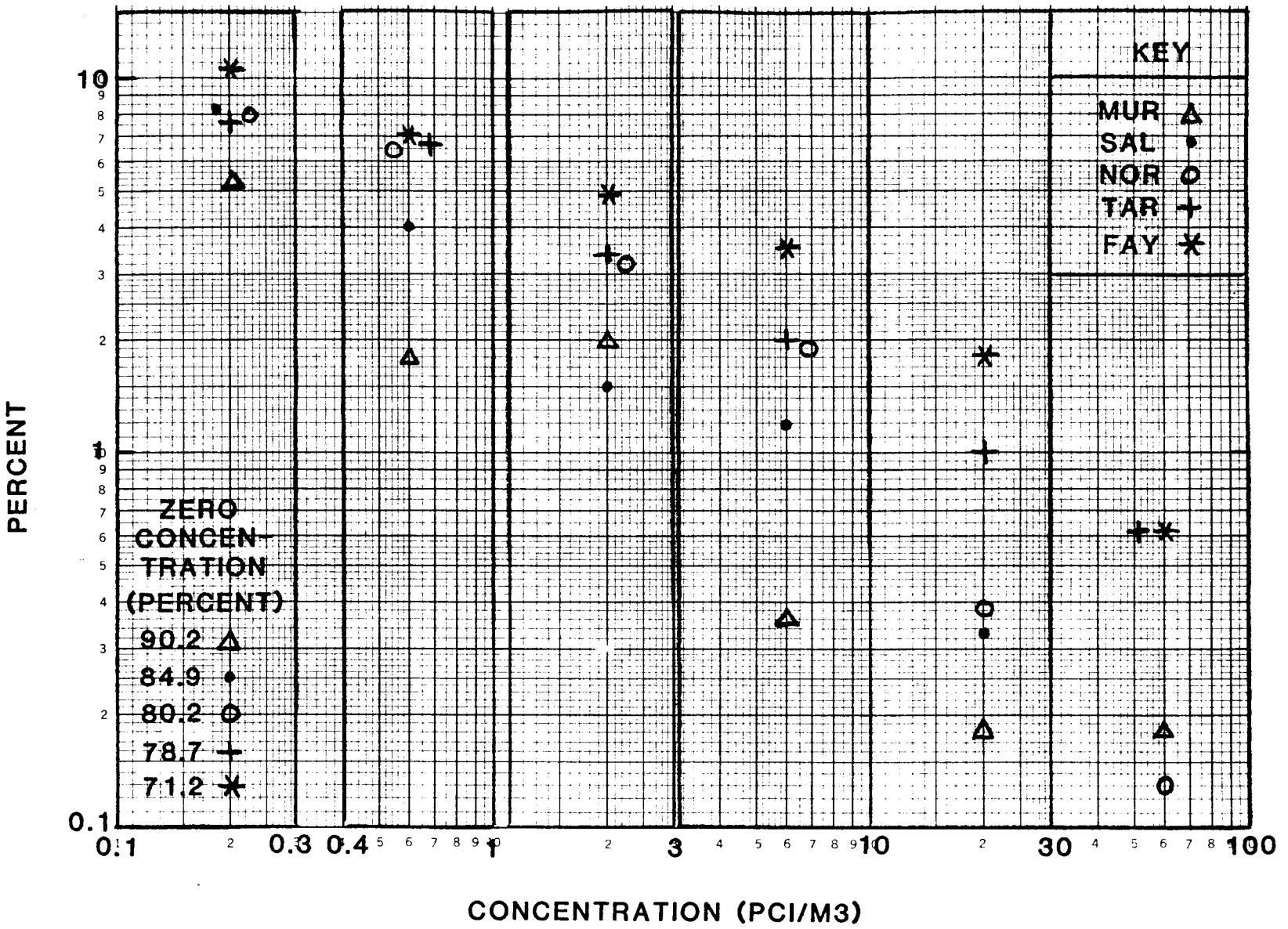

Figure 4. Concentration distributions for the five ACURATE sampling sites (percent at zero concentration and by concentration interval).

The right-hand columns in Appendix B (histogram) are presented as a visual means of separating the SRP plume from background by subtracting BUL values from measurements. The vertical axis at each site is aligned with the BUL value. A ":" on the axis indicates a missing measurement. The "O"s on each axis and to the right reflect measurements above the BUL values and thus SRP pluming (the distributions shown in Fig. 4); the "X"s on the axis and to the left are best interpreted as either background or plume. Visual inspection of the plots should give strong clues. For example, records 22 through 25 indicate no presence of plume at any of the five sampling sites. Records 52 through 60 indicate plume presence, or probable presence, at sites where symbols are shown just on or slightly below the axis. Start and continuation codes are also plotted on the axes for completeness. It should be noted again that visual comparison between source emission and receptor concentration can easily be made by aligning the "HISTOGRAM" portions of Appendices A and B.

FILE 2 on the ACURATE data tape is the measured surface air concentration file (see Appendix C). The file contains 1158 records (similar to FILE 1) where each record includes a record #, start date-time identification, and measured concentrations (with start and continuation codes) at each of the five sampling sites for the period after start. A missing concentration is coded 0. A FILE 2 tape dump should exactly match the left-hand portion of Appendix B below the column headings (note that records 268 and 628 for FAY, written as 999, should be 1353 and 1664, respectively).

4. METEOROLOGY

4.1 Local Meteorological Data

Local meteorological data were obtained from seven instrumented towers located at the SRP. Each tower is 62 m in height, corresponding to the stack heights of the source emissions. A turbulence quality vector vane mounted on top of each tower provided wind speed, direction, and horizontal and vertical wind fluctuations. In addition, an instrumented television tower (WJBF-TV) 330 m in height located about 15 km northwest of the plant boundary was used to collect meteorological data. The locations of the television tower and the seven production area towers on the SRP site are shown in Fig. 1. The local wind data at the SRP for the ACURATE period March 1, 1982 through September 30, 1983 are three-hour space average means (at 62 m) of wind speed, wind direction, and the standard deviation of horizontal and vertical wind directions.

4.2 Surface Meteorological Data

The surface meteorological data for the ACURATE period were taken from the hourly surface observations at 241 NWS stations and averaged over three-hour periods. These stations are located from 30° to 45°N and 70° to 88°W (see Fig. 5). The data consist of pressure, temperature, dewpoint, wind direction, and wind speed.

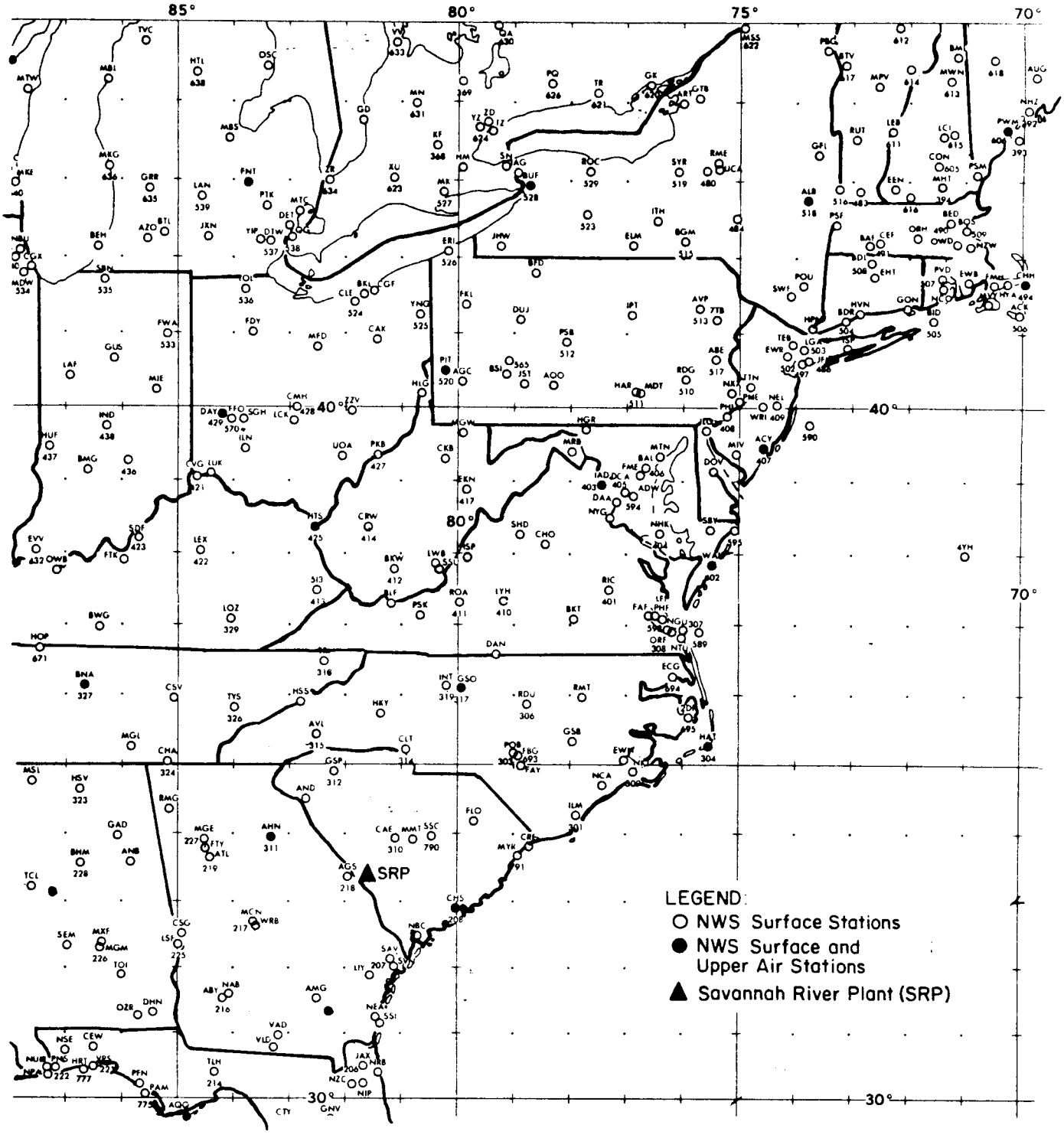

Figure 5. Source, surface, and upper-air stations for which ACURATE meteorological data were archived.

4.3 Upper-Air Meteorological Data

Twice-daily (00 and 12 GMT) upper-air data were taken from reports at 20 NWS upper-air stations (see Fig. 5). The data consist of pressure, height, temperature dewpoint, wind direction and wind speed at the mandatory and significant reporting levels.

FILE 3 through FILE 21 on the ACURATE data tape are the archived surface and upper-air meteorology data (see Appendix C). Each file contains one month of data. The date/time records are at 3-hour intervals (00, 03, 06 GMT, etc.). The surface station observations are given at these intervals. It should be noted that the first record after each date/time sequence is from the SRP giving local wind data at 62 m in height. The upper-air stations usually report only twice daily (00 and 12 GMT), so the number of UA records at the intermediate 3-hour intervals will usually have a count of 0. Missing data within a record are coded -99.

5. ACKNOWLEDGEMENTS

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APPENDIX A

SOURCE EMISSION RATE

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	******HISTOGRAM****** 0 1 2 3 4
1	82030100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
2	82030112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
3	82030200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
4	82030212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
5	82030300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
6	82030312	0	0	0	0	0	0	0	0	0	0	0	0	0	:
7	82030400	0	0	0	0	0	0	0	0	0	0	0	0	0	:
8	82030412	0	0	0	0	0	0	0	0	0	0	0	0	0	:
9	82030500	0	4	5	4	4	3	3	3	3	2	2	2	35	O
10	82030512	2	0	0	0	0	0	0	0	0	0	0	0	2	O
11	82030600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
12	82030612	0	0	0	0	0	0	21	114	218	322	403	374	1452	OOOOOOOO
13	82030700	335	300	269	241	216	193	173	155	139	124	111	40	2296	OOOOOOOOOOOO
14	82030712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
15	82030800	0	0	0	0	0	0	0	0	0	0	0	42	42	O
16	82030812	123	208	294	331	298	266	238	214	191	171	154	137	2625	OOOOOOOOOOOOOO
17	82030900	124	110	99	89	91	82	73	66	59	53	47	42	935	OOOOOO
18	82030912	38	34	30	27	24	22	20	18	16	14	0	0	243	OO
19	82031000	0	0	0	0	0	0	0	0	0	0	0	0	0	:
20	82031012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
21	82031100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
22	82031112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
23	82031200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
24	82031212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
25	82031300	0	0	0	0	0	8	32	41	41	39	38	41	240	OO
26	82031312	45	47	40	16	0	0	0	12	26	32	33	34	285	OO
27	82031400	34	36	38	39	35	22	2	0	0	0	0	0	206	OO
28	82031412	0	0	0	0	0	0	0	0	0	0	0	0	0	:
29	82031500	0	0	0	0	0	0	0	0	0	0	0	0	0	:
30	82031512	0	0	0	0	0	0	0	0	0	22	45	48	115	OO
31	82031600	45	45	49	54	52	28	0	0	0	16	31	36	356	OOO
32	82031612	37	37	38	41	43	39	25	2	0	0	0	0	262	OO
33	82031700	0	0	0	0	0	0	0	0	0	0	0	0	0	:
34	82031712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
35	82031800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
36	82031812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
37	82031900	0	0	0	0	5	31	42	43	40	40	43	47	291	OO
38	82031912	48	38	10	0	0	0	11	25	31	33	33	33	262	OO
39	82032000	35	37	38	36	25	5	0	0	0	0	0	0	176	OO
40	82032012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
41	82032100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
42	82032112	0	0	0	0	1	65	152	249	345	364	326	292	1794	OOOOOOOOOO
43	82032200	262	234	210	188	169	151	135	121	109	97	100	23	1799	OOOOOOOOOO
44	82032212	0	0	0	0	0	0	0	3	5	4	4	4	20	O
45	82032300	3	3	3	2	2	2	24	100	198	300	364	336	1337	OOOOOOOO
46	82032312	303	274	251	232	213	189	154	125	112	103	105	104	2165	OOOOOOOOOOOO
47	82032400	98	91	98	91	86	83	79	72	60	40	0	0	798	OOOOO
48	82032412	0	0	0	0	0	0	0	0	0	0	0	0	0	:
49	82032500	0	0	0	0	0	0	0	0	0	0	0	0	0	:
50	82032512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
51	82032600	0	0	0	0	0	0	0	17	92	177	263	328	877	OOOOO
52	82032612	305	273	244	219	197	176	157	141	126	113	102	90	2143	OOOOOOOOOOO
53	82032700	94	84	75	67	60	54	48	43	39	35	31	0	630	OOOO
54	82032712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
55	82032800	0	0	11	94	166	251	324	307	275	246	221	197	2092	OOOOOOOOOO
56	82032812	177	158	142	127	133	204	194	175	157	143	128	116	1854	OOOOOOOOO
57	82032900	104	94	97	87	79	70	64	32	29	26	24	22	728	OOOOO
58	82032912	20	18	16	15	13	12	11	10	9	1	0	0	125	OO
59	82033000	0	0	0	0	0	0	0	0	0	0	0	0	0	:
60	82033012	0	0	0	0	0	0	0	0	0	0	0	0	0	:

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	******HISTOGRAM****** 0 1 2 3 4
61	82033100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
62	82033112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
63	82040100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
64	82040112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
65	82040200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
66	82040212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
67	82040300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
68	82040312	0	0	0	0	0	0	0	0	3	72	145	229	449	OOO
69	82040400	327	348	320	291	263	241	224	209	190	159	117	103	2792	OOOOOOOOOOOOOO
70	82040412	93	99	103	100	94	88	96	92	90	85	75	53	1068	OOOOOO
71	82040500	29	25	10	0	0	0	0	0	0	0	0	0	64	O
72	82040512	0	0	0	0	12	96	166	248	318	299	268	240	1647	OOOOOOOOO
73	82040600	215	192	172	155	138	124	111	99	90	92	82	74	1544	OOOOOOOOO
74	82040612	66	59	53	48	43	38	34	32	50	53	44	42	562	OOOO
75	82040700	41	42	45	49	48	33	4	0	4	22	31	34	353	OOO
76	82040712	35	35	36	39	41	40	33	15	0	0	0	0	274	OO
77	82040800	0	0	1	4	4	4	4	3	15	95	162	241	533	OOOO
78	82040812	308	290	260	232	207	185	166	149	133	119	107	96	2252	OOOOOOOOOOOO
79	82040900	99	89	79	71	64	57	51	46	41	37	33	29	696	OOOO
80	82040912	26	24	21	19	17	15	14	12	11	10	9	8	186	OO
81	82041000	7	6	6	5	4	0	0	0	0	0	19	41	88	O
82	82041012	48	47	45	45	48	52	54	46	19	0	0	0	404	OOO
83	82041100	0	0	6	21	29	32	33	33	34	35	37	38	298	OO
84	82041112	39	36	27	10	0	0	0	0	0	0	0	0	112	OO
85	82041200	0	0	0	0	0	0	0	17	90	172	255	318	852	OOOOO
86	82041212	296	264	238	212	191	171	153	137	123	110	98	88	2081	OOOOOOOOOO
87	82041300	91	81	73	65	59	52	47	42	38	34	30	27	639	OOOO
88	82041312	24	22	0	0	0	0	0	0	0	0	0	0	46	O
89	82041400	0	0	0	0	0	0	12	95	165	247	316	298	1133	OOOOOOO
90	82041412	266	238	214	191	171	154	137	124	110	99	90	96	1890	OOOOOOOOO
91	82041500	90	83	78	72	66	61	56	56	53	48	44	40	747	OOOOO
92	82041512	27	16	16	15	15	15	15	14	14	15	15	16	193	OO
93	82041600	16	16	16	15	15	13	12	9	6	3	0	0	121	OO
94	82041612	0	10	23	30	32	32	32	33	34	36	38	37	337	OOO
95	82041700	33	21	3	0	0	0	0	0	0	0	0	0	57	O
96	82041712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
97	82041800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
98	82041812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
99	82041900	0	0	0	0	0	0	0	0	0	0	0	0	0	:
100	82041912	0	0	0	0	27	103	184	265	317	287	258	231	1672	OOOOOOOOO
101	82042000	206	185	166	149	133	119	107	96	99	88	79	71	1498	OOOOOOOO
102	82042012	63	57	51	46	41	37	33	29	26	24	21	19	447	OOO
103	82042100	17	4	0	0	0	0	0	0	0	0	0	0	21	O
104	82042112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
105	82042200	0	17	42	50	50	47	47	49	54	57	52	29	494	OOO
106	82042212	1	0	0	1	17	30	36	37	37	38	39	41	277	OO
107	82042300	43	44	40	29	8	0	0	0	0	0	0	0	164	OO
108	82042312	0	0	0	0	0	0	0	0	0	0	0	0	0	:
109	82042400	0	0	0	0	0	0	0	0	0	0	0	0	0	:
110	82042412	1	63	137	218	299	307	276	247	221	198	177	159	2303	OOOOOOOOOOOOO
111	82042500	143	128	114	110	109	103	96	100	91	84	79	75	1232	OOOOOOO
112	82042512	72	67	59	44	29	25	12	0	2	12	19	21	362	OOO
113	82042600	22	22	61	100	93	89	94	85	72	55	46	41	780	OOOOO
114	82042612	38	34	32	90	157	236	313	315	271	244	218	195	2143	OOOOOOOOOOO
115	82042700	175	157	140	126	113	101	90	93	83	75	67	60	1280	OOOOOOO
116	82042712	54	48	43	39	35	31	28	25	22	20	18	7	370	OOO
117	82042800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
118	82042812	0	0	0	3	21	29	31	29	28	29	32	34	236	OO
119	82042900	34	26	7	0	0	0	6	15	19	21	22	22	172	OO
120	82042912	22	23	24	25	25	23	17	61	128	209	289	305	1151	OOOOOOO

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	******HISTOGRAM****** 0 1 2 3 4
121	82043000	273	245	219	197	176	157	141	127	113	102	91	94	1935	OOOOOOOOOOO
122	82043012	84	75	67	60	54	48	43	39	35	31	28	25	589	OOOO
123	82050100	22	20	18	16	10	0	0	0	0	0	0	0	86	O
124	82050112	0	0	0	0	0	17	90	174	257	321	298	267	1424	OOOOOOOO
125	82050200	239	214	192	172	157	145	132	121	110	100	91	94	1767	OOOOOOOOOO
126	82050212	85	78	71	65	59	55	52	48	44	41	38	34	670	OOOO
127	82050300	19	5	0	0	2	12	18	20	20	20	21	23	160	OO
128	82050312	86	157	238	312	310	274	246	220	197	177	158	142	2517	OOOOOOOOOOOOOO
129	82050400	127	114	102	91	94	84	76	68	61	54	49	44	964	OOOOOO
130	82050412	39	35	31	28	25	23	20	18	6	0	0	0	225	OO
131	82050500	0	0	0	0	0	0	0	0	0	0	0	0	0	:
132	82050512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
133	82050600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
134	82050612	0	0	0	0	0	0	0	0	0	0	0	0	0	:
135	82050700	0	3	71	144	226	305	305	273	257	252	237	216	2289	OOOOOOOOOOO
136	82050712	195	178	167	157	147	128	93	84	75	67	74	80	1445	OOOOOOOO
137	82050800	80	76	73	69	66	65	64	61	35	24	4	0	617	OOOO
138	82050812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
139	82050900	0	0	0	0	0	34	111	194	277	321	290	259	1486	OOOOOOOO
140	82050912	232	208	186	167	150	134	120	108	97	99	89	80	1670	OOOOOOOOO
141	82051000	71	64	57	51	46	41	37	33	30	27	24	21	502	OOOO
142	82051012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
143	82051100	0	0	0	0	0	0	0	15	47	56	55	52	225	OO
144	82051112	54	60	64	57	24	0	0	0	0	10	29	38	336	OOO
145	82051200	40	41	41	43	45	47	46	36	12	0	0	0	351	OOO
146	82051212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
147	82051300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
148	82051312	0	0	0	0	0	0	0	0	0	0	0	1	1	O
149	82051400	63	137	218	298	306	274	246	222	221	215	199	181	2580	OOOOOOOOOOOOO
150	82051412	164	153	144	137	124	97	77	68	61	71	82	83	1261	OOOOOOO
151	82051500	79	75	73	73	72	67	51	19	0	0	0	0	509	OOOO
152	82051512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
153	82051600	12	92	160	240	307	289	259	232	208	186	167	150	2302	OOOOOOOOOOOO
154	82051612	134	120	107	97	99	89	80	71	64	57	51	46	1015	OOOOOO
155	82051700	41	37	33	30	27	24	21	19	16	0	0	0	248	OO
156	82051712	0	0	0	0	0	0	0	0	0	0	0	55	55	O
157	82051800	129	210	291	307	281	279	263	240	217	199	187	176	2779	OOOOOOOOOOOOOO
158	82051812	157	121	91	94	88	97	99	95	89	84	80	78	1173	OOOOOOO
159	82051900	76	71	60	38	23	19	0	0	0	0	0	0	287	OO
160	82051912	0	0	0	0	0	0	0	0	0	0	0	0	0	:
161	82052000	0	0	0	0	0	0	0	0	0	0	0	0	0	:
162	82052012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
163	82052100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
164	82052112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
165	82052200	0	0	0	0	0	0	0	0	0	0	0	9	9	O
166	82052212	88	159	242	315	302	271	243	218	195	174	157	140	2504	OOOOOOOOOOOOO
167	82052300	125	112	101	90	93	83	75	67	60	54	48	43	951	OOOOOO
168	82052312	39	35	31	28	25	22	20	3	0	0	0	0	203	OO
169	82052400	0	0	0	0	0	0	0	0	0	0	0	0	0	:
170	82052412	0	0	0	0	0	0	0	0	0	0	0	0	0	:
171	82052500	0	0	0	0	0	0	0	0	0	0	0	0	0	:
172	82052512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
173	82052600	0	0	56	131	212	294	311	278	250	224	200	179	2135	OOOOOOOOOOO
174	82052612	161	144	129	116	104	93	96	86	77	69	62	55	1192	OOOOOOO
175	82052700	49	44	40	36	32	29	26	23	16	0	0	0	295	OO
176	82052712	0	0	0	0	0	0	0	0	0	1	23	39	63	O
177	82052800	42	40	39	41	45	47	42	20	0	0	0	3	319	OOO
178	82052812	17	26	29	30	30	31	32	34	35	33	26	9	332	OOO
179	82052900	0	0	0	2	75	163	259	355	365	326	292	262	2099	OOOOOOOOOOO
180	82052912	235	211	188	169	151	136	121	109	97	52	0	0	1469	OOOOOOOO

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	******HISTOGRAM****** 0 1 2 3 4
181	82053000	3	35	50	50	48	49	54	58	50	15	0	0	412	OOO
182	82053012	3	24	35	39	39	40	42	45	45	38	17	0	367	OOO
183	82053100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
184	82053112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
185	82060100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
186	82060112	0	0	0	0	0	0	0	19	92	172	253	312	848	OOOOO
187	82060200	287	258	231	206	185	166	149	133	119	107	96	99	2036	OOOOOOOOOO
188	82060212	88	79	71	63	57	51	46	41	37	33	29	26	621	OOOO
189	82060300	24	21	19	20	48	59	49	47	47	51	56	53	494	OOO
190	82060312	28	0	0	0	0	3	8	12	15	16	17	17	116	OO
191	82060400	17	17	17	18	18	18	19	19	20	20	20	20	223	OO
192	82060412	19	16	13	8	1	0	0	0	0	0	0	0	57	O
193	82060500	0	0	0	0	0	0	0	23	48	52	50	48	221	OO
194	82060512	52	57	58	42	5	0	0	1	20	34	38	39	346	OOO
195	82060600	39	41	44	46	44	33	8	0	0	0	0	0	255	OO
196	82060612	0	0	0	0	0	0	0	0	0	0	0	0	0	:
197	82060700	0	0	0	0	0	0	0	0	0	0	0	0	0	:
198	82060712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
199	82060800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
200	82060812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
201	82060900	0	0	0	0	0	0	0	0	0	0	0	0	0	:
202	82060912	0	0	0	0	0	1	60	89	81	73	66	60	430	OOO
203	82061000	54	49	44	40	36	33	51	75	77	72	69	71	671	OOOO
204	82061012	74	74	53	15	11	10	9	24	39	45	45	44	443	OOO
205	82061100	45	47	49	45	35	12	0	0	0	0	0	0	233	OO
206	82061112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
207	82061200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
208	82061212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
209	82061300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
210	82061312	0	0	0	0	0	0	0	0	0	0	0	0	0	:
211	82061400	3	38	53	53	50	52	58	60	44	5	0	0	416	OOO
212	82061412	0	0	1	15	26	30	32	32	32	33	35	37	273	OO
213	82061500	37	33	22	4	0	0	0	0	0	0	0	0	96	O
214	82061512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
215	82061600	0	0	0	0	0	0	0	7	41	52	51	49	200	OO
216	82061612	52	58	58	35	1	0	0	3	19	29	32	33	320	OOO
217	82061700	33	34	36	38	38	35	24	4	0	0	0	0	242	OO
218	82061712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
219	82061800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
220	82061812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
221	82061900	53	59	63	53	14	0	0	0	30	53	55	52	190	OO
222	82061912	31	31	32	33	35	37	36	31	19	2	0	0	338	OOO
223	82062000	0	0	0	0	0	0	0	0	0	0	0	0	287	OO
224	82062012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
225	82062100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
226	82062112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
227	82062200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
228	82062212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
229	82062300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
230	82062312	0	0	0	0	0	0	0	0	0	0	0	0	0	:
231	82062400	0	0	0	0	0	0	0	0	0	0	0	0	0	:
232	82062412	17	38	44	44	42	41	44	48	51	48	32	4	453	OOO
233	82062500	0	0	4	23	34	38	39	39	40	43	45	44	349	OOO
234	82062512	37	16	0	0	0	0	0	0	0	0	0	0	53	O
235	82062600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
236	82062612	0	0	0	0	0	2	29	45	47	44	44	48	259	OO
237	82062700	52	51	31	1	0	1	15	27	32	33	33	33	309	OOO
238	82062712	35	37	38	35	25	5	0	0	0	0	0	0	175	OO
239	82062800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
240	82062812	0	0	0	0	0	0	5	36	49	49	47	48	234	OO

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	******HISTOGRAM****** 0 1 2 3 4
241	82062900	52	57	51	21	0	0	5	22	30	33	34	34	339	OOO
242	82062912	35	37	39	39	35	23	3	0	0	0	0	0	211	OO
243	82063000	0	0	0	0	0	0	0	0	0	0	0	0	0	:
244	82063012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
245	82070100	4	33	46	46	44	44	48	52	50	29	1	0	397	OOO
246	82070112	0	0	0	3	20	29	33	33	33	34	36	38	259	OO
247	82070200	38	33	18	1	0	0	0	0	0	0	0	0	90	O
248	82070212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
249	82070300	0	0	0	0	0	0	0	0	0	0	0	3	3	O
250	82070312	36	51	50	48	50	56	58	40	3	0	0	7	399	OOO
251	82070400	24	32	34	34	34	36	38	40	38	28	7	0	345	OOO
252	82070412	0	0	0	0	0	0	0	69	178	297	415	452	1411	OOOOOOOO
253	82070500	405	364	325	291	261	234	210	188	168	151	135	121	2853	OOOOOOOOOOOOOOO
254	82070512	109	97	0	0	0	0	0	0	0	0	0	0	206	OO
255	82070600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
256	82070612	0	0	0	0	0	0	0	0	0	0	0	0	0	:
257	82070700	0	0	0	0	0	0	0	0	0	0	0	0	0	:
258	82070712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
259	82070800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
260	82070812	0	0	0	0	0	0	0	20	110	210	311	393	1044	OOOOOO
261	82070900	386	356	321	290	264	243	224	201	168	137	123	109	2822	OOOOOOOOOOOOOO
262	82070912	98	93	95	92	98	91	84	79	75	72	68	61	1006	OOOOOO
263	82071000	48	30	25	22	19	17	15	14	12	11	10	9	232	OO
264	82071012	8	7	6	6	5	5	4	4	3	3	3	2	56	O
265	82071100	2	2	2	0	0	0	0	0	0	0	11	97	114	OO
266	82071112	203	309	402	385	345	310	278	248	223	199	178	160	3240	OOOOOOOOOOOOOOOO
267	82071200	144	129	115	103	92	95	85	76	68	61	55	49	1072	OOOOOO
268	82071212	44	39	35	32	28	25	17	0	0	0	0	0	220	OO
269	82071300	0	0	0	0	0	0	0	11	25	30	30	28	124	OO
270	82071312	28	29	31	34	33	25	6	0	0	6	18	23	233	OO
271	82071400	25	25	25	26	28	29	29	25	13	0	0	0	225	OO
272	82071412	0	0	0	0	0	0	0	0	0	0	0	0	0	:
273	82071500	0	0	0	0	0	0	0	0	0	0	0	0	0	:
274	82071512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
275	82071600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
276	82071612	10	100	200	300	400	400	350	325	300	275	250	225	3135	OOOOOOOOOOOOOOOO
277	82071700	200	175	150	125	112	100	87	80	75	75	60	60	1299	OOOOOOO
278	82071712	50	50	50	40	40	40	30	30	30	25	25	25	435	OOO
279	82071800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
280	82071812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
281	82071900	0	0	0	0	0	0	0	0	0	0	0	0	0	:
282	82071912	0	0	0	0	0	0	0	0	0	0	0	0	0	:
283	82072000	0	0	0	0	0	0	0	0	0	0	0	0	0	:
284	82072012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
285	82072100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
286	82072112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
287	82072200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
288	82072212	0	0	0	0	0	0	0	0	0	15	31	35	81	O
289	82072300	34	33	33	37	40	37	21	1	0	7	98	196	537	OOOO
290	82072312	308	406	399	360	325	296	268	244	219	192	159	140	3316	OOOOOOOOOOOOOOOOO
291	82072400	125	112	100	90	93	83	74	67	60	53	48	43	948	OOOOOO
292	82072412	38	34	31	28	25	22	23	21	19	17	15	14	287	OO
293	82072500	12	11	10	9	8	7	6	6	5	4	3	3	84	O
294	82072512	3	3	2	2	2	1	10	25	29	29	28	28	162	OO
295	82072600	29	32	34	31	19	1	0	0	4	15	21	23	209	OO
296	82072612	24	24	24	26	27	28	25	17	3	0	0	0	198	OO
297	82072700	0	53	153	261	369	415	373	334	299	268	240	215	2980	OOOOOOOOOOOOOOO
298	82072712	192	172	155	138	124	111	100	90	92	82	74	66	1396	OOOOOOOO
299	82072800	59	53	48	43	0	0	0	0	0	0	0	0	203	OO
300	82072812	0	0	0	0	0	0	0	0	0	0	0	0	0	:

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	TOTAL	HISTOGRAM 0 1 2 3 4
													12	HOUR	
301	82072900	0	0	0	0	0	42	140	244	350	405	365	327	1873	OOOOOOOOOO
302	82072912	293	263	235	211	189	169	151	136	122	109	97	100	2075	OOOOOOOOOO
303	82073000	90	81	72	65	58	52	47	42	37	33	30	27	634	OOOO
304	82073012	24	22	19	9	0	0	0	0	0	0	0	0	74	O
305	82073100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
306	82073112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
307	82080100	58	181	299	412	471	428	391	356	321	276	230	204	3627	OOOOOOOOOOOOOOOOOO
308	82080112	184	175	166	155	143	131	119	110	103	96	68	26	1476	OOOOOOOO
309	82080200	13	0	0	0	0	0	0	0	0	0	0	0	13	O
310	82080212	0	0	0	0	0	0	0	0	0	0	46	151	197	OO
311	82080300	263	375	435	392	351	315	282	252	226	203	182	163	3439	OOOOOOOOOOOOOOOOO
312	82080312	146	131	117	104	94	97	87	78	70	0	0	0	924	OOOOOO
313	82080400	0	0	0	0	0	0	0	0	0	0	0	0	0	:
314	82080412	0	0	0	0	0	7	98	187	289	384	376	337	1678	OOOOOOOOO
315	82080500	301	270	242	217	194	174	156	139	125	112	100	90	2120	OOOOOOOOOOO
316	82080512	93	83	74	67	60	53	48	43	38	34	31	28	652	OOOO
317	82080600	25	22	20	14	0	1	52	164	277	386	479	459	1899	OOOOOOOOOO
318	82080612	422	382	324	261	233	209	191	192	186	174	160	148	2882	OOOOOOOOOOOOOO
319	82080700	137	131	124	113	94	24	0	0	0	0	0	0	623	OOOO
320	82080712	0	0	0	0	0	0	0	0	0	46	151	263	460	OOO
321	82080800	374	434	392	351	314	281	252	226	202	181	163	145	3315	OOOOOOOOOOOOOOOOO
322	82080812	131	117	104	94	96	86	77	69	53	36	50	52	965	OOOOOO
323	82080900	50	48	50	54	58	57	41	7	0	7	94	218	684	OOOO
324	82080912	337	442	434	392	356	323	294	269	245	222	196	164	3674	OOOOOOOOOOOOOOOOO
325	82081000	134	120	108	97	99	89	80	71	38	0	0	0	836	OOOOO
326	82081012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
327	82081100	0	0	0	0	0	0	0	0	0	0	12	104	116	OO
328	82081112	217	329	429	411	368	330	296	264	237	212	191	171	3455	OOOOOOOOOOOOOOOOO
329	82081200	153	137	123	110	98	88	91	81	73	44	0	0	998	OOOOOO
330	82081212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
331	82081300	0	0	0	1	12	25	38	50	48	43	39	35	291	OO
332	82081312	31	28	25	22	20	18	16	14	13	12	10	9	218	OO
333	82081400	8	7	3	0	0	0	0	0	0	0	0	0	18	O
334	82081412	0	0	0	0	0	0	0	0	0	0	0	0	0	:
335	82081500	0	0	0	0	0	0	0	0	0	0	0	0	0	:
336	82081512	0	0	0	8	95	205	316	418	407	365	327	293	2434	OOOOOOOOOOOO
337	82081600	263	235	211	189	169	151	136	122	109	97	100	90	1872	OOOOOOOOO
338	82081612	81	72	33	0	0	0	0	0	0	0	0	0	186	OO
339	82081700	0	0	0	0	0	0	0	0	0	0	0	0	0	:
340	82081712	45	150	262	373	432	391	350	313	281	251	225	204	3277	OOOOOOOOOOOOOOOO
341	82081800	183	164	146	131	117	105	94	97	87	78	37	1	1240	OOOOOOO
342	82081812	1	0	0	0	0	0	0	0	0	0	0	0	1	O
343	82081900	0	0	1	75	177	288	398	421	377	338	303	271	2649	OOOOOOOOOOOOO
344	82081912	243	218	195	175	157	140	125	112	101	90	93	83	1732	OOOOOOOOO
345	82082000	75	67	46	0	0	0	0	0	0	0	0	0	188	OO
346	82082012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
347	82082100	0	0	0	46	151	265	378	438	395	354	318	284	2629	OOOOOOOOOOOOO
348	82082112	255	228	204	183	164	147	131	118	105	95	97	87	1814	OOOOOOOOO
349	82082200	78	70	0	0	0	0	0	0	0	0	0	0	148	OO
350	82082212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
351	82082300	0	0	0	7	91	203	314	418	411	368	330	296	2438	OOOOOOOOOOOO
352	82082312	264	238	212	191	171	153	137	123	110	98	88	91	1876	OOOOOOOOO
353	82082400	81	73	55	0	0	0	0	0	0	0	0	0	209	OO
354	82082412	0	0	0	0	0	0	0	0	0	0	0	0	0	:
355	82082500	0	0	0	0	0	0	0	0	0	0	0	0	0	:
356	82082512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
357	82082600	0	0	0	0	23	124	238	351	439	408	365	328	2276	OOOOOOOOOOO
358	82082612	293	263	236	211	189	170	151	136	122	109	97	88	2065	OOOOOOOOOO
359	82082700	90	81	19	0	0	0	0	0	0	0	0	0	190	OO
360	82082712	0	0	0	0	0	0	0	0	0	0	0	0	0	:

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	HISTOGRAM
361	82082800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
362	82082812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
363	82082900	0	0	0	0	0	0	0	0	0	0	0	0	0	:
364	82082912	0	0	0	0	0	0	0	0	0	0	0	0	0	:
365	82083000	0	0	7	89	195	300	399	391	350	313	281	251	2576	OOOOOOOOOOOOOO
366	82083012	225	202	181	162	145	130	117	104	93	96	86	77	1618	OOOOOOOOO
367	82083100	69	62	56	50	45	40	36	32	8	0	0	0	398	OOO
368	82083112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
369	82090100	0	0	0	0	0	0	0	2	84	181	290	396	953	OOOOOO
370	82090112	406	365	326	292	262	235	211	188	176	184	179	166	2990	OOOOOOOOOOOOOOO
371	82090200	151	139	131	125	120	111	91	7	0	0	0	0	875	OOOOO
372	82090212	6	25	35	39	40	40	40	42	45	46	44	35	437	OOO
373	82090300	14	0	0	0	0	0	0	0	0	0	0	0	14	O
374	82090312	0	0	0	0	0	44	145	253	362	419	378	338	1939	OOOOOOOOOO
375	82090400	304	271	244	218	196	175	157	141	126	113	101	90	2136	OOOOOOOOOOO
376	82090412	93	83	75	67	0	0	0	0	0	0	0	0	318	OOO
377	82090500	0	0	0	0	0	0	0	0	0	0	0	0	0	:
378	82090512	0	0	0	0	12	40	48	47	44	45	50	54	340	OOO
379	82090600	51	29	1	0	0	7	25	33	35	36	36	37	290	OO
380	82090612	40	42	47	117	207	305	405	396	355	318	284	255	2771	OOOOOOOOOOOOOO
381	82090700	229	204	184	164	147	132	118	106	95	98	87	78	1642	OOOOOOOOO
382	82090712	70	63	56	50	34	0	0	0	22	53	61	59	468	OOO
383	82090800	57	58	64	69	65	37	1	0	0	1	19	34	405	OOO
384	82090812	41	42	43	43	45	47	49	49	43	26	3	0	431	OOO
385	82090900	0	0	0	0	0	0	0	0	0	0	0	0	0	:
386	82090912	0	0	0	0	0	29	128	238	346	424	388	348	1901	OOOOOOOOOO
387	82091000	311	279	251	224	201	180	161	144	130	116	104	93	2194	OOOOOOOOOOO
388	82091012	96	86	77	69	0	0	0	0	0	0	0	0	328	OOO
389	82091100	0	0	0	30	61	67	63	62	67	74	73	47	544	OOOO
390	82091112	2	0	5	32	46	50	51	52	54	58	59	51	460	OOO
391	82091200	25	55	160	272	385	432	388	348	311	279	250	224	3129	OOOOOOOOOOOOOOOO
392	82091212	201	180	161	144	130	116	104	93	96	86	77	35	1423	OOOOOOOO
393	82091300	0	0	0	0	0	0	0	0	11	51	64	63	189	OO
394	82091312	60	62	68	73	67	32	0	0	0	5	34	48	449	OOO
395	82091400	52	52	53	57	60	60	49	17	0	0	0	0	400	OOO
396	82091412	0	0	0	0	0	0	0	0	0	0	0	0	0	:
397	82091500	0	0	0	6	97	187	290	385	378	339	304	272	2258	OOOOOOOOOOO
398	82091512	244	218	196	176	157	141	126	113	101	90	93	84	1739	OOOOOOOOO
399	82091600	75	67	60	73	92	96	90	97	97	88	100	77	1012	OOOOOO
400	82091612	27	18	16	14	22	45	49	47	47	48	50	53	436	OOO
401	82091700	55	52	38	8	0	0	0	0	0	0	0	0	153	OO
402	82091712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
403	82091800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
404	82091812	0	0	15	56	67	65	62	66	73	76	58	10	548	OOOO
405	82091900	0	0	0	2	9	14	18	20	38	131	241	351	824	OOOOO
406	82091912	444	419	378	340	308	279	253	229	209	188	171	153	3371	OOOOOOOOOOOOOOOOO
407	82092000	137	119	101	98	88	79	71	63	0	0	0	0	756	OOOOO
408	82092012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
409	82092100	0	0	0	0	22	121	231	343	428	398	356	319	2218	OOOOOOOOOOO
410	82092112	286	271	265	247	226	205	187	173	163	154	141	121	2439	OOOOOOOOOOOO
411	82092200	99	79	70	32	15	31	38	40	40	41	43	45	573	OOOO
412	82092212	47	46	38	19	0	0	0	0	0	0	0	0	150	OO
413	82092300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
414	82092312	0	42	138	242	345	399	360	323	290	259	232	208	2838	OOOOOOOOOOOOOO
415	82092400	186	192	200	189	172	158	151	145	139	120	86	64	1802	OOOOOOOOOO
416	82092412	57	51	59	72	76	75	72	69	68	67	68	49	783	OOOOO
417	82092500	45	31	7	0	0	0	0	0	0	0	0	0	83	O
418	82092512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
419	82092600	8	96	209	323	428	419	375	337	301	270	242	217	3225	OOOOOOOOOOOOOOOO
420	82092612	194	174	156	139	125	112	100	90	93	83	46	56	1368	OOOOOOOO

HISTOGRAM: 0 1 2 3 4

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	HISTOGRAM 0 1 2 3 4
421	82092700	62	59	57	60	68	75	67	29	17	19	20	20	553	OOOO
422	82092712	20	20	20	21	21	21	22	22	23	24	24	24	262	OO
423	82092800	23	22	20	16	23	108	217	330	430	412	370	331	2302	OOOOOOOOOOOO
424	82092812	297	265	238	213	191	171	153	137	123	110	98	89	2085	OOOOOOOOOO
425	82092900	91	82	31	0	0	0	0	0	0	0	0	0	204	OO
426	82092912	0	0	0	0	0	0	0	0	0	23	48	52	123	OO
427	82093000	50	49	52	76	157	240	305	374	347	311	278	250	2489	OOOOOOOOOOOO
428	82093012	230	219	204	189	172	157	144	134	125	116	108	95	1893	OOOOOOOOO
429	82100100	89	64	0	0	0	0	0	0	0	0	0	0	153	OO
430	82100112	0	0	0	0	0	0	0	0	0	0	0	22	22	O
431	82100200	121	232	344	430	398	358	320	287	257	230	206	184	3367	OOOOOOOOOOOOOOOOO
432	82100212	165	148	133	119	106	96	98	88	79	71	33	0	1136	OOOOOOO
433	82100300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
434	82100312	0	0	0	0	0	0	0	0	7	93	204	314	618	OOOO
435	82100400	417	407	365	327	293	263	235	211	189	169	151	136	3163	OOOOOOOOOOOOOOOO
436	82100412	122	109	97	100	90	81	72	33	0	0	0	0	704	OOOOO
437	82100500	0	0	0	0	0	0	0	0	0	0	0	0	0	:
438	82100512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
439	82100600	47	47	52	56	48	12	0	0	0	21	46	50	117	OO
440	82100612	34	35	35	37	39	40	37	23	2	0	0	0	282	OO
441	82100700	0	0	0	0	0	0	0	0	0	0	0	0	0	:
442	82100712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
443	82100800	0	0	0	0	0	0	0	0	0	0	0	2	2	O
444	82100812	31	49	51	48	47	51	56	56	40	5	0	0	434	OOO
445	82100900	0	0	0	0	0	0	0	7	23	31	34	35	130	OO
446	82100912	35	36	38	40	40	37	26	6	0	0	0	0	258	OO
447	82101000	0	0	0	0	0	0	0	0	0	0	0	0	0	:
448	82101012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
449	82101100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
450	82101112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
451	82101200	0	0	0	0	0	0	0	0	11	58	68	63	200	OO
452	82101212	66	75	71	22	0	0	4	9	12	15	16	17	307	OOO
453	82101300	17	17	17	18	18	18	18	19	19	20	20	21	222	OO
454	82101312	20	20	18	15	11	5	0	0	0	0	0	0	89	O
455	82101400	0	0	0	0	0	0	8	16	20	23	24	24	115	OO
456	82101412	23	23	22	22	22	23	24	25	26	27	27	26	290	OO
457	82101500	22	16	7	0	0	0	3	19	29	33	34	34	197	OO
458	82101512	35	36	38	40	39	34	21	2	0	0	0	0	245	OO
459	82101600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
460	82101612	0	0	0	0	0	0	0	0	0	0	0	0	0	:
461	82101700	0	0	0	0	0	0	0	0	0	0	0	0	0	:
462	82101712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
463	82101800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
464	82101812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
465	82101900	23	43	48	46	44	45	49	54	52	36	5	0	445	OOO
466	82101912	0	0	4	22	32	35	36	36	37	39	41	42	324	OOO
467	82102000	39	27	6	0	0	0	0	0	0	0	0	0	72	O
468	82102012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
469	82102100	0	0	0	0	0	50	130	216	302	330	296	264	1588	OOOOOOOOO
470	82102112	238	212	191	171	153	137	123	110	98	88	91	81	1693	OOOOOOOOO
471	82102200	73	65	58	52	47	42	38	34	30	27	24	0	490	OOO
472	82102212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
473	82102300	6	87	166	257	341	333	298	268	240	215	192	172	2575	OOOOOOOOOOOOO
474	82102312	155	138	124	111	99	89	92	82	74	66	59	53	1142	OOOOOOO
475	82102400	47	0	0	0	0	0	0	0	0	0	0	0	47	O
476	82102412	0	0	0	0	2	39	122	213	301	384	379	350	1790	OOOOOOOOOO
477	82102500	320	278	219	191	171	154	137	124	125	132	128	119	2098	OOOOOOOOOO
478	82102512	112	106	103	98	88	73	23	0	0	0	0	0	603	OOOO
479	82102600	0	0	0	0	0	0	0	0	0	0	0	62	62	O
480	82102612	145	238	328	347	311	278	250	224	200	183	184	177	2865	OOOOOOOOOOOOOO

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	******HISTOGRAM****** 0 1 2 3 4
481	82102700	164	151	137	126	117	112	107	100	98	68	25	0	1205	OOOOOOO
482	82102712	0	2	18	30	35	36	36	37	38	41	42	41	356	OOO
483	82102800	32	13	18	98	189	280	350	325	291	261	233	209	2299	OOOOOOOOOOOO
484	82102812	187	168	151	135	121	108	97	100	89	80	72	64	1372	OOOOOOOO
485	82102900	58	52	46	11	0	0	0	0	0	0	0	0	167	OO
486	82102912	0	0	0	0	0	0	0	27	107	197	282	361	974	OOOOOO
487	82103000	354	325	298	271	234	189	175	164	151	138	126	116	2541	OOOOOOOOOOOOOO
488	82103012	105	97	90	96	90	84	78	71	61	49	34	29	884	OOOOO
489	82103100	26	23	21	19	17	15	7	0	0	0	0	0	128	OO
490	82103112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
491	82110100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
492	82110112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
493	82110200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
494	82110212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
495	82110300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
496	82110312	0	0	0	0	0	0	0	15	29	34	35	33	146	OO
497	82110400	32	32	34	37	39	39	33	18	1	0	0	1	266	OO
498	82110412	18	31	36	37	37	38	41	43	41	32	9	0	363	OOO
499	82110500	0	0	0	0	0	0	0	0	0	0	0	0	0	:
500	82110512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
501	82110600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
502	82110612	0	0	0	0	0	0	0	0	0	0	0	0	0	:
503	82110700	0	0	0	0	0	0	0	0	0	0	0	0	0	:
504	82110712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
505	82110800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
506	82110812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
507	82110900	0	0	0	0	0	0	0	0	0	0	0	0	0	:
508	82110912	0	0	0	0	0	0	0	0	0	0	0	0	0	:
509	82111000	0	0	0	3	12	16	18	18	17	17	17	18	136	OO
510	82111012	19	20	20	18	11	1	0	0	0	9	87	164	349	OOO
511	82111100	250	332	336	304	276	249	222	192	164	148	132	118	2723	OOOOOOOOOOOOOO
512	82111112	106	95	98	88	79	70	63	56	51	45	41	36	828	OOOOO
513	82111200	33	29	26	23	3	0	0	0	0	0	0	0	114	OO
514	82111212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
515	82111300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
516	82111312	0	0	0	0	0	0	38	127	221	316	366	351	1419	OOOOOOOO
517	82111400	339	313	284	257	238	223	207	180	134	110	100	108	2493	OOOOOOOOOOOO
518	82111412	111	107	92	43	45	47	50	47	34	7	0	0	583	OOOO
519	82111500	0	0	0	0	0	0	40	127	221	315	363	327	1393	OOOOOOOO
520	82111512	293	263	235	211	189	169	151	136	122	109	97	88	2063	OOOOOOOOOOO
521	82111600	90	81	72	0	0	0	0	2	34	51	50	48	428	OOO
522	82111612	50	57	57	35	1	0	0	0	10	25	31	33	299	OO
523	82111700	33	33	35	37	38	36	26	5	0	0	0	0	243	OO
524	82111712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
525	82111800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
526	82111812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
527	82111900	0	0	0	0	0	0	0	0	2	35	58	64	159	OO
528	82111912	64	66	73	78	74	45	18	18	19	19	20	20	514	OOOO
529	82112000	21	21	22	21	21	19	15	11	4	0	0	0	155	OO
530	82112012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
531	82112100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
532	82112112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
533	82112200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
534	82112212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
535	82112300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
536	82112312	0	0	0	0	0	0	0	0	0	0	0	0	0	:
537	82112400	0	0	0	0	0	0	0	0	0	0	0	0	0	:
538	82112412	0	0	0	0	0	0	0	0	0	0	0	0	0	:
539	82112500	0	0	0	0	0	0	0	0	0	0	0	0	0	:
540	82112512	0	0	0	0	0	0	0	0	0	0	0	0	0	:

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	TOTAL	HISTOGRAM 0 1 2 3 4
														12 HOUR	0 0 0 0 0
														TOTAL	0 0 0 0 0
541	82112600	0	0	0	0	0	6	92	172	262	344	338	305	1519	OOOOOOOOO
542	82112612	275	249	224	203	184	168	153	142	131	120	110	99	2058	OOOOOOOOOO
543	82112700	88	86	67	56	50	49	65	72	72	70	67	66	808	OOOOO
544	82112712	66	48	47	40	20	0	0	0	0	0	0	0	221	OO
545	82112800	0	0	0	0	0	0	0	0	19	104	200	296	619	OOOO
546	82112812	370	344	308	276	247	221	198	177	159	143	128	114	2685	OOOOOOOOOOOOOO
547	82112900	103	91	94	85	39	6	13	18	21	22	23	22	537	OOOO
548	82112912	22	21	21	21	21	22	23	24	25	26	26	24	276	OO
549	82113000	21	15	7	0	0	1	7	12	15	17	19	19	133	OO
550	82113012	19	19	19	20	20	20	21	22	22	23	23	22	250	OO
551	82120100	20	17	12	5	0	0	0	0	0	0	0	0	54	O
552	82120112	0	0	0	0	0	0	0	0	2	37	56	58	153	OO
553	82120200	55	55	79	158	247	314	357	331	298	286	274	253	2707	OOOOOOOOOOOOOO
554	82120212	232	212	197	184	170	151	117	89	91	82	73	66	1664	OOOOOOOOO
555	82120300	30	0	0	0	0	0	0	0	0	0	0	0	30	O
556	82120312	0	0	0	0	0	0	0	0	24	108	199	291	622	OOOO
557	82120400	355	325	291	261	234	210	188	168	151	135	121	109	2548	OOOOOOOOOOOOOO
558	82120412	97	100	90	80	72	64	58	0	0	0	0	0	561	OOOO
559	82120500	0	0	0	0	0	0	0	0	0	0	0	0	0	:
560	82120512	6	81	154	238	316	309	277	248	222	199	178	159	2387	OOOOOOOOOOOO
561	82120600	143	128	115	103	92	95	85	76	68	61	55	49	1070	OOOOOO
562	82120612	44	39	35	32	28	25	23	20	18	16	15	0	295	OO
563	82120700	0	0	6	90	172	265	352	345	309	277	248	222	2286	OOOOOOOOOOO
564	82120712	199	178	160	144	128	115	103	92	95	85	76	68	1443	OOOOOOOO
565	82120800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
566	82120812	0	24	107	198	291	354	325	291	261	234	210	188	2483	OOOOOOOOOOOO
567	82120900	168	151	135	121	108	97	100	89	80	72	64	58	1243	OOOOOOO
568	82120912	0	0	0	0	0	0	0	0	0	0	0	0	0	:
569	82121000	0	0	0	0	6	87	168	260	346	340	305	273	1785	OOOOOOOOO
570	82121012	244	219	197	176	157	141	126	113	102	91	94	84	1744	OOOOOOOOO
571	82121100	75	67	60	0	0	0	0	0	0	0	0	0	202	OO
572	82121112	0	19	101	193	285	357	331	297	266	238	213	191	2491	OOOOOOOOOOOO
573	82121200	171	153	137	124	110	99	89	91	82	73	66	30	1225	OOOOOOO
574	82121212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
575	82121300	0	0	0	0	0	0	0	0	37	121	211	302	671	OOOO
576	82121312	350	315	282	253	226	203	182	163	146	131	117	105	2473	OOOOOOOOOOOO
577	82121400	94	97	87	78	70	62	56	0	0	0	0	0	544	OOOO
578	82121412	0	0	0	0	0	0	0	0	0	0	0	0	0	:
579	82121500	0	0	0	0	0	0	0	0	0	0	67	155	222	OO
580	82121512	250	343	364	327	295	266	240	217	196	177	161	146	2982	OOOOOOOOOOOOOOO
581	82121600	134	123	113	104	95	99	88	77	64	1	0	2	900	OOOOOO
582	82121612	21	34	38	39	39	41	43	46	44	34	10	0	389	OOO
583	82121700	0	0	0	38	125	218	311	361	325	291	261	234	2164	OOOOOOOOOO
584	82121712	210	188	168	151	135	121	109	97	100	90	80	72	1521	OOOOOOOO
585	82121800	64	0	0	0	0	0	0	0	0	0	0	0	64	O
586	82121812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
587	82121900	0	0	0	0	0	0	0	0	0	0	7	95	102	OO
588	82121912	181	279	371	362	325	291	260	233	209	187	168	151	3017	OOOOOOOOOOOOOOO
589	82122000	135	121	108	97	100	89	80	72	33	0	0	0	835	OOOOO
590	82122012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
591	82122100	0	37	123	214	305	354	319	286	257	230	205	184	2514	OOOOOOOOOOOOO
592	82122112	165	148	132	118	106	96	98	88	79	71	63	29	1193	OOOOOO
593	82122200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
594	82122212	0	0	0	0	0	0	0	0	0	0	3	38	41	O
595	82122300	82	110	147	144	129	115	104	92	95	85	76	68	1247	OOOOOO
596	82122312	61	55	49	44	40	35	32	28	25	12	0	0	381	OOO
597	82122400	0	0	0	0	0	0	0	0	0	0	0	0	0	:
598	82122412	0	0	38	125	219	313	363	327	293	263	235	211	2387	OOOOOOOOOOOO
599	82122500	189	169	151	136	122	109	97	100	90	81	72	65	1381	OOOOOOOO
600	82122512	58	52	47	42	37	17	0	0	0	0	0	0	253	OO

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	******HISTOGRAM****** 0 1 2 3 4
601	82122600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
602	82122612	0	6	90	171	264	350	342	306	275	246	220	197	2467	OOOOOOOOOOOOO
603	82122700	177	158	142	127	114	102	91	94	84	76	68	61	1294	OOOOOOO
604	82122712	54	49	44	39	35	0	0	0	0	0	0	0	221	OO
605	82122800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
606	82122812	0	0	18	100	192	284	355	330	295	264	237	212	2287	OOOOOOOOOOOO
607	82122900	190	171	152	137	123	110	98	88	91	81	73	65	1379	OOOOOOOO
608	82122912	58	52	47	42	38	34	16	0	0	0	0	0	287	OO
609	82123000	0	0	0	0	0	0	0	0	0	0	0	0	0	:
610	82123012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
611	82123100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
612	82123112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
613	83010100	0	24	106	196	286	350	321	287	258	231	206	185	2450	OOOOOOOOOOOO
614	83010112	166	149	133	119	107	96	99	88	79	71	63	57	1227	OOOOOOO
615	83010200	51	46	41	37	33	8	0	0	0	0	0	0	216	OO
616	83010212	0	0	0	0	18	100	191	283	354	329	294	264	1833	OOOOOOOOO
617	83010300	237	211	190	170	152	137	122	110	98	88	90	81	1686	OOOOOOOO
618	83010312	73	93	173	254	336	368	331	297	265	238	191	171	2790	OOOOOOOOOOOOOO
619	83010400	154	137	124	110	99	89	91	82	73	66	59	53	1137	OOOOOO
620	83010412	47	42	38	34	35	97	96	90	97	97	42	14	729	OOOOO
621	83010500	13	11	10	15	34	42	45	45	44	46	47	49	401	OOO
622	83010512	47	37	15	2	2	2	1	0	0	0	0	0	106	OO
623	83010600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
624	83010612	0	0	0	0	0	0	13	41	50	50	47	47	248	OO
625	83010700	51	87	170	255	320	370	336	301	283	271	252	231	2927	OOOOOOOOOOOOOOO
626	83010712	211	194	180	168	154	133	101	93	83	74	67	60	1518	OOOOOOOO
627	83010800	53	48	43	10	0	0	0	0	0	0	0	0	154	OO
628	83010812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
629	83010900	0	0	0	4	31	44	92	173	267	365	409	373	1758	OOOOOOOOO
630	83010912	330	272	237	211	190	178	171	161	147	136	124	115	2272	OOOOOOOOOO
631	83011000	106	100	94	99	86	67	48	42	38	34	30	0	744	OOOOO
632	83011012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
633	83011100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
634	83011112	51	132	221	309	337	302	271	242	217	194	174	156	2606	OOOOOOOOOOOOO
635	83011200	140	125	113	123	127	120	109	101	98	96	89	77	1318	OOOOOOOO
636	83011212	44	38	34	31	31	46	53	53	52	50	50	51	533	OOOO
637	83011300	40	36	22	2	0	0	0	0	0	0	0	0	100	OO
638	83011312	0	0	0	0	0	0	0	0	0	0	0	0	0	:
639	83011400	0	0	0	0	0	2	28	42	44	42	41	43	242	OO
640	83011412	47	50	45	21	0	0	0	4	15	22	26	27	257	OO
641	83011500	27	27	27	28	30	31	31	29	24	12	0	0	266	OO
642	83011512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
643	83011600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
644	83011612	0	0	0	16	35	40	39	37	38	40	44	45	334	OOO
645	83011700	36	11	0	0	3	12	17	20	21	22	22	22	186	OO
646	83011712	22	23	24	25	25	25	24	19	12	2	0	0	201	OO
647	83011800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
648	83011812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
649	83011900	16	35	40	39	37	37	40	44	44	36	11	0	379	OOO
650	83011912	0	0	8	23	30	32	32	32	34	36	37	36	300	OOO
651	83012000	27	8	0	0	0	0	0	0	0	0	0	0	35	O
652	83012012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
653	83012100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
654	83012112	0	0	0	0	0	0	0	0	0	14	43	49	106	OO
655	83012200	47	46	49	55	54	32	1	0	0	11	25	31	351	OOO
656	83012212	32	32	33	34	36	38	36	28	10	0	0	0	279	OO
657	83012300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
658	83012312	0	0	0	0	0	0	0	0	0	0	0	0	0	:
659	83012400	0	0	0	0	0	0	0	0	0	0	0	7	7	O
660	83012412	39	48	46	45	49	54	47	12	0	2	15	24	381	OOO

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	******HISTOGRAM****** 0 1 2 3 4
661	83012500	27	28	28	28	30	32	33	31	24	8	0	0	269	00
662	83012512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
663	83012600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
664	83012612	0	0	0	0	0	0	0	0	0	0	0	23	23	O
665	83012700	51	54	51	52	58	62	49	8	0	0	0	8	393	000
666	83012712	26	34	36	36	37	39	41	42	38	22	1	0	352	000
667	83012800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
668	83012812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
669	83012900	0	0	0	0	0	0	0	0	0	0	0	0	0	:
670	83012912	0	0	0	0	0	0	0	0	0	0	0	0	0	:
671	83013000	0	0	0	0	0	0	0	0	0	0	0	0	0	:
672	83013012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
673	83013100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
674	83013112	0	0	1	34	54	55	52	54	60	63	44	3	420	000
675	83020100	0	0	0	10	26	33	35	35	35	37	39	41	291	00
676	83020112	39	31	11	0	0	0	0	0	0	0	0	0	81	O
677	83020200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
678	83020212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
679	83020300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
680	83020312	4	38	52	51	49	52	58	56	24	0	0	0	384	000
681	83020400	9	26	33	34	35	35	37	40	40	34	17	0	340	000
682	83020412	0	0	0	0	0	0	0	0	0	0	0	0	0	:
683	83020500	0	0	0	0	0	0	0	0	0	0	0	2	2	O
684	83020512	11	18	21	23	23	23	22	21	21	22	22	24	251	00
685	83020600	25	26	26	25	22	16	6	0	0	0	19	39	204	00
686	83020612	44	45	46	50	52	44	14	0	0	0	0	0	295	00
687	83020700	0	0	0	0	0	0	0	0	0	0	0	0	0	:
688	83020712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
689	83020800	0	0	0	0	0	0	0	0	18	53	58	54	183	00
690	83020812	56	62	65	41	1	0	0	0	0	0	17	39	281	00
691	83020900	45	46	47	51	53	46	17	0	0	0	0	0	305	000
692	83020912	0	0	0	0	0	0	0	0	0	0	0	0	0	:
693	83021000	0	0	0	0	0	0	0	0	0	0	0	0	0	:
694	83021012	0	0	0	2	38	58	59	56	56	62	67	60	458	000
695	83021100	22	0	0	0	23	43	49	50	51	54	58	56	406	000
696	83021112	37	4	0	0	0	0	0	0	0	0	0	0	41	O
697	83021200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
698	83021212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
699	83021300	0	0	0	0	0	2	34	51	52	49	50	56	294	00
700	83021312	60	50	13	0	0	4	22	33	36	37	37	38	330	000
701	83021400	41	43	41	30	7	0	0	0	0	0	0	0	162	00
702	83021412	0	0	0	0	0	0	0	0	0	0	0	0	0	:
703	83021500	0	0	0	0	0	0	0	0	0	0	0	0	0	:
704	83021512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
705	83021600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
706	83021612	0	0	0	0	0	0	0	0	0	0	0	0	0	:
707	83021700	51	56	62	54	14	0	0	0	6	43	55	53	157	00
708	83021712	39	40	42	45	46	37	12	0	0	15	33	39	324	000
709	83021800	0	0	0	0	0	0	0	0	0	0	0	0	261	00
710	83021812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
711	83021900	0	0	0	4	43	58	57	54	59	66	61	22	424	000
712	83021912	0	0	0	0	0	16	34	40	41	42	44	47	264	00
713	83022000	48	42	21	0	0	0	0	0	0	0	0	0	111	00
714	83022012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
715	83022100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
716	83022112	0	0	27	53	55	52	54	60	62	41	2	0	406	000
717	83022200	0	0	21	39	44	44	46	49	52	46	20	0	361	000
718	83022212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
719	83022300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
720	83022312	0	0	7	18	25	28	30	30	29	28	28	28	251	00

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	******HISTOGRAM****** 0 1 2 3 4
721	83022400	28	29	30	32	33	34	33	30	23	13	1	0	286	OO
722	83022412	0	0	6	35	49	53	53	54	58	62	59	41	470	OOO
723	83022500	6	0	0	0	0	0	0	0	0	0	0	0	6	O
724	83022512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
725	83022600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
726	83022612	0	0	0	0	0	0	0	0	0	0	110	376	486	OOO
727	83022700	355	321	291	263	238	215	195	177	159	144	131	118	2607	OOOOOOOOOOOOO
728	83022712	107	97	88	91	82	75	67	61	37	0	0	0	705	OOOOO
729	83022800	0	0	0	0	0	0	0	0	0	19	42	51	112	OO
730	83022812	157	427	405	371	342	318	296	270	236	190	163	148	3323	OOOOOOOOOOOOOOOOO
731	83030100	133	125	132	132	127	119	111	104	100	97	93	89	1362	OOOOOOOO
732	83030112	92	74	26	0	0	0	0	0	0	0	0	0	192	OO
733	83030200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
734	83030212	0	0	0	0	0	13	256	339	307	279	267	258	1719	OOOOOOOOOO
735	83030300	243	224	205	187	173	161	151	144	135	123	104	86	1936	OOOOOOOOOOO
736	83030312	71	67	78	87	88	84	80	77	75	75	74	71	927	OOOOOO
737	83030400	62	41	19	16	14	13	12	11	10	9	8	7	222	OO
738	83030412	7	6	5	5	4	4	4	3	3	3	2	2	48	O
739	83030500	2	2	2	1	1	1	1	1	19	44	52	52	178	OO
740	83030512	49	49	52	57	60	54	31	1	0	107	374	366	1200	OOOOOOO
741	83030600	340	314	287	263	242	223	206	191	177	163	145	123	2674	OOOOOOOOOOOOO
742	83030612	97	98	89	80	73	66	60	54	49	44	40	36	786	OOOOO
743	83030700	33	30	27	24	22	10	0	0	0	0	0	0	146	OO
744	83030712	0	19	44	54	56	54	52	52	54	58	63	63	569	OOOO
745	83030800	56	35	4	0	4	25	38	44	46	47	47	48	394	OOO
746	83030812	50	53	55	53	46	30	5	0	0	0	0	0	292	OO
747	83030900	0	106	365	345	312	283	256	231	209	190	171	155	2623	OOOOOOOOOOOOO
748	83030912	140	127	115	104	94	98	88	80	72	66	59	54	1097	OOOOOO
749	83031000	49	53	73	80	80	75	71	67	66	68	69	69	820	OOOOO
750	83031012	65	49	22	11	10	11	27	39	40	39	40	40	393	OOO
751	83031100	41	43	45	46	45	39	24	3	110	380	359	325	1460	OOOOOOOO
752	83031112	294	266	241	218	197	178	162	146	132	119	108	98	2159	OOOOOOOOOOO
753	83031200	89	92	83	75	68	62	56	51	46	41	37	34	734	OOOOO
754	83031212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
755	83031300	0	0	2	208	349	316	285	258	234	211	191	173	2227	OOOOOOOOOOO
756	83031312	157	142	128	116	105	95	99	89	81	73	66	60	1211	OOOOOOO
757	83031400	54	49	44	40	36	33	30	27	24	22	10	0	369	OOO
758	83031412	0	0	0	0	0	0	0	9	30	42	46	46	173	OO
759	83031500	45	43	43	45	48	51	53	51	42	23	1	0	445	OOO
760	83031512	0	3	23	35	41	43	43	44	45	47	49	51	424	OOO
761	83031600	50	43	28	4	0	0	0	0	0	0	0	0	125	OO
762	83031612	0	0	0	0	0	0	0	0	110	378	357	323	292	1460	OOOOOOOO
763	83031700	264	239	217	196	177	160	145	131	119	108	97	88	1941	OOOOOOOOOO
764	83031712	92	83	75	68	61	56	50	46	41	37	34	13	656	OOOO
765	83031800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
766	83031812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
767	83031900	0	0	0	0	0	0	0	0	0	0	0	0	0	:
768	83031912	0	0	0	0	0	0	0	0	0	0	0	0	0	:
769	83032000	0	0	0	162	379	345	313	283	256	231	210	190	2369	OOOOOOOOOOOO
770	83032012	171	156	141	127	115	104	94	98	89	80	91	112	1378	OOOOOOOO
771	83032100	124	124	117	110	105	105	109	98	98	83	42	1	1116	OOOOOOO
772	83032112	0	0	9	34	49	56	60	60	60	61	62	65	516	OOOO
773	83032200	156	251	233	213	189	157	120	104	95	98	89	81	1786	OOOOOOOOO
774	83032212	73	66	60	54	49	44	40	36	33	30	27	24	536	OOOO
775	83032300	22	20	18	16	0	0	11	70	98	89	98	95	537	OOOO
776	83032312	98	93	100	97	80	29	313	416	399	384	362	337	2708	OOOOOOOOOOOOOOO
777	83032400	311	287	266	249	235	221	208	191	164	127	92	96	2447	OOOOOOOOOOO
778	83032412	87	79	71	65	58	53	48	0	0	0	0	0	461	OOO
779	83032500	0	0	0	0	0	0	0	0	0	0	0	0	0	:
780	83032512	0	0	7	275	405	366	331	299	271	245	222	201	2622	OOOOOOOOOOOOO

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	******HISTOGRAM****** 0 1 2 3 4
781	83032600	182	164	149	135	122	110	100	90	94	85	77	70	1378	OOOOOOOO
782	83032612	63	57	52	47	42	38	35	16	0	0	0	0	350	OOO
783	83032700	0	7	45	68	75	75	72	70	71	75	81	86	725	OOOOO
784	83032712	84	68	31	0	0	9	34	48	55	58	58	58	503	OOOO
785	83032800	59	61	64	67	68	66	57	38	8	0	0	0	488	OOO
786	83032812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
787	83032900	0	0	0	0	0	0	0	0	0	0	0	0	0	:
788	83032912	0	0	0	0	0	0	0	0	0	0	0	0	0	:
789	83033000	0	0	0	0	0	0	0	0	0	0	0	0	0	:
790	83033012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
791	83033100	54	71	72	69	67	70	76	82	78	53	7	0	14	O
792	83033112	131	461	452	418	384	351	323	298	276	257	238	219	699	OOOO
793	83040100	194	161	126	113	103	92	96	87	79	71	65	58	3808	OOOOOOOOOOOOOOOOOOOO
794	83040112	27	0	0	0	0	0	0	0	0	0	0	0	1245	OOOOOOO
795	83040200	0	0	0	0	0	0	0	0	0	0	0	0	27	O
796	83040212	0	0	218	429	388	351	318	288	260	236	213	193	0	:
797	83040300	174	157	143	130	117	106	96	100	90	82	74	67	2894	OOOOOOOOOOOOOO
798	83040312	60	14	0	0	0	0	0	0	0	0	0	0	1336	OOOOOOOO
799	83040400	0	0	0	0	0	21	62	79	81	78	75	76	74	O
800	83040412	81	88	92	87	63	14	0	0	3	29	48	57	472	OOO
801	83040500	60	61	61	62	64	67	70	71	66	52	25	0	562	OOOO
802	83040512	0	0	0	0	0	0	0	0	0	0	0	0	659	OOOO
803	83040600	0	0	0	0	1	11	23	31	36	39	40	41	0	:
804	83040612	40	39	38	38	37	37	38	39	41	42	44	45	222	OO
805	83040700	46	45	43	39	31	20	5	0	2	34	59	69	478	OOO
806	83040712	72	83	383	516	476	441	405	365	311	250	224	202	393	OOO
807	83040800	183	165	150	136	123	110	100	90	94	85	77	70	3728	OOOOOOOOOOOOOOOOOOO
808	83040812	0	0	0	0	0	0	0	0	0	0	0	0	1383	OOOOOOOO
809	83040900	0	0	0	0	0	0	0	0	9	58	82	85	0	:
810	83040912	82	79	81	88	95	95	73	19	0	0	3	47	234	OO
811	83041000	77	85	86	88	93	99	221	496	418	370	334	303	662	OOOO
812	83041012	274	248	224	203	184	166	151	136	123	111	101	91	2670	OOOOOOOOOOOOO
813	83041100	95	86	78	70	64	0	0	0	0	0	0	0	2012	OOOOOOOOOO
814	83041112	0	0	0	0	0	0	0	0	0	0	0	0	393	OOO
815	83041200	64	66	63	61	61	65	70	74	73	59	24	0	75	O
816	83041212	0	6	36	53	60	61	61	63	66	70	71	66	680	OOOO
817	83041300	46	10	0	0	0	0	0	0	0	0	0	0	613	OOOO
818	83041312	0	0	0	0	0	0	0	0	0	0	0	0	56	O
819	83041400	0	0	29	64	73	72	69	69	74	81	83	71	0	:
820	83041412	29	0	0	3	28	44	51	53	54	54	56	59	685	OOOO
821	83041500	62	62	57	40	9	0	0	0	0	0	0	0	431	OOO
822	83041512	0	0	0	0	0	0	0	0	0	0	0	0	230	OO
823	83041600	0	0	0	0	0	0	23	65	79	78	74	74	0	:
824	83041612	79	86	90	77	31	0	0	6	36	53	60	61	393	OOO
825	83041700	61	63	66	70	88	382	472	398	352	319	289	261	579	OOOO
826	83041712	237	214	193	175	158	144	130	117	106	96	100	90	2821	OOOOOOOOOOOOOO
827	83041800	82	74	67	61	14	0	0	0	0	0	0	0	1760	OOOOOOOOOO
828	83041812	16	52	66	67	64	62	65	71	76	74	53	9	298	OO
829	83041900	0	0	9	27	38	43	44	44	45	45	47	50	675	OOOO
830	83041912	52	52	48	38	18	0	0	0	0	0	0	0	392	OOO
831	83042000	0	0	0	0	0	0	0	0	0	0	0	0	208	OO
832	83042012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
833	83042100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
834	83042112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
835	83042200	60	62	67	73	72	55	14	0	12	48	63	65	62	250	OO
836	83042212	41	42	42	42	44	45	48	49	49	44	33	13	489	OOO
837	83042300	0	0	0	0	0	0	0	0	0	0	0	0	492	OOO
838	83042312	214	420	380	345	311	282	255	231	209	189	171	155	0	:
839	83042400	140	127	115	104	94	98	88	80	72	65	59	54	3162	OOOOOOOOOOOOOOOOO
840	83042412	49	44	40	36	33	29	27	0	0	0	0	0	1096	OOOOOO
														258	OO

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	******HISTOGRAM****** 0 1 2 3 4
841	83042500	0	0	0	0	0	0	0	0	0	42	351	397	790	OOOOO
842	83042512	359	325	294	266	241	218	197	178	161	146	132	119	2636	OOOOOOOOOOOOOO
843	83042600	108	98	89	92	83	75	68	62	56	51	23	0	805	OOOOO
844	83042612	0	0	0	0	0	0	0	0	0	0	0	0	0	:
845	83042700	0	0	0	0	0	0	0	0	0	0	0	0	0	:
846	83042712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
847	83042800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
848	83042812	117	404	382	345	312	283	256	231	210	190	171	155	3056	OOOOOOOOOOOOOOOO
849	83042900	140	127	115	104	94	98	89	80	73	66	59	54	1099	OOOOOO
850	83042912	49	44	40	36	33	30	16	0	0	0	0	0	248	OO
851	83043000	0	0	0	0	0	0	0	0	0	0	0	0	0	:
852	83043012	0	0	0	18	321	418	378	342	310	280	253	230	2550	OOOOOOOOOOOOOO
853	83050100	208	188	170	154	139	126	114	104	93	97	88	79	1560	OOOOOOOO
854	83050112	72	65	0	0	0	0	0	0	0	0	0	0	137	OO
855	83050200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
856	83050212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
857	83050300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
858	83050312	0	0	0	0	0	0	0	0	0	0	0	0	0	:
859	83050400	0	0	0	0	0	0	0	0	0	0	0	0	0	:
860	83050412	0	0	0	0	0	2	243	406	368	333	301	272	1925	OOOOOOOOOO
861	83050500	246	223	202	183	165	150	136	123	110	100	90	94	1822	OOOOOOOOO
862	83050512	85	77	70	63	57	52	47	42	38	35	31	28	625	OOOO
863	83050600	26	23	21	3	0	0	0	0	0	0	0	0	73	O
864	83050612	0	0	0	0	0	0	0	0	0	0	0	0	0	:
865	83050700	0	0	0	0	0	0	0	0	0	0	0	0	0	:
866	83050712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
867	83050800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
868	83050812	0	0	0	100	425	414	375	339	307	278	251	227	2716	OOOOOOOOOOOOOO
869	83050900	205	186	169	152	137	124	113	102	92	96	87	79	1542	OOOOOOOO
870	83050912	71	0	0	0	0	0	0	0	0	0	0	0	71	O
871	83051000	0	0	0	0	0	0	0	0	0	0	0	0	0	:
872	83051012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
873	83051100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
874	83051112	0	0	0	0	0	0	0	0	0	0	0	2	2	O
875	83051200	260	436	394	357	323	292	264	239	217	196	177	160	3315	OOOOOOOOOOOOOOOOO
876	83051212	145	131	118	107	97	88	91	83	75	68	31	0	1034	OOOOOO
877	83051300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
878	83051312	0	0	0	0	0	0	0	0	0	0	7	19	26	O
879	83051400	28	34	37	40	41	41	40	39	38	38	37	37	450	OOO
880	83051412	38	39	40	41	43	44	45	46	46	44	41	35	502	OOOO
881	83051500	27	16	2	0	0	2	14	25	32	36	39	41	234	OO
882	83051512	41	41	41	42	42	43	44	45	46	48	48	49	530	OOOO
883	83051600	256	459	416	372	329	286	255	231	209	189	171	155	3328	OOOOOOOOOOOOOOOOO
884	83051612	140	127	115	104	94	98	88	80	72	65	59	54	1096	OOOOOO
885	83051700	49	44	0	0	0	0	0	0	0	0	0	0	93	O
886	83051712	0	3	50	85	97	96	92	90	93	100	94	96	896	OOOOO
887	83051800	96	53	2	0	3	38	64	76	79	80	168	489	1148	OOOOOOO
888	83051812	482	447	413	377	331	267	223	202	183	165	150	135	3375	OOOOOOOOOOOOOOOOO
889	83051900	123	110	100	90	94	85	77	70	63	57	52	0	921	OOOOOO
890	83051912	0	0	0	0	0	0	0	0	0	0	0	0	0	:
891	83052000	0	0	0	0	0	0	0	0	0	0	0	0	0	:
892	83052012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
893	83052100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
894	83052112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
895	83052200	0	0	0	0	6	66	100	92	88	98	89	97	636	OOOO
896	83052212	104	97	64	2	0	0	0	1	27	50	61	66	472	OOO
897	83052300	67	67	68	70	73	77	78	74	61	33	2	0	670	OOOO
898	83052312	0	0	0	0	0	0	0	0	0	0	0	0	0	:
899	83052400	0	0	0	0	0	0	0	0	0	0	0	0	0	:
900	83052412	0	0	0	0	0	0	0	0	0	0	0	121	121	OO

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	******HISTOGRAM****** 0 1 2 3 4
901	83052500	415	392	355	321	291	263	238	216	195	203	234	236	3359	OOOOOOOOOOOOOOOOO
902	83052512	222	205	192	186	186	184	170	129	75	61	55	50	1715	OOOOOOOOOO
903	83052600	8	0	0	0	5	34	54	64	68	68	68	69	438	OOO
904	83052612	71	75	78	80	78	67	45	9	0	0	0	0	503	OOOO
905	83052700	0	0	0	0	0	0	0	0	0	0	0	0	0	:
906	83052712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
907	83052800	0	0	0	0	0	128	251	227	205	186	169	152	1318	OOOOOOOO
908	83052812	137	124	113	102	92	96	87	79	71	64	58	53	1076	OOOOOO
909	83052900	48	43	39	35	32	29	26	0	0	0	0	0	252	OO
910	83052912	0	0	0	0	0	0	0	0	0	0	0	0	0	:
911	83053000	0	0	0	0	0	0	0	0	0	0	0	0	0	:
912	83053012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
913	83053100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
914	83053112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
915	83060100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
916	83060112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
917	83060200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
918	83060212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
919	83060300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
920	83060312	0	0	0	0	0	0	0	0	0	0	0	0	0	:
921	83060400	0	0	0	0	0	0	0	0	0	0	0	0	0	:
922	83060412	0	0	0	0	0	0	0	0	0	0	0	0	0	:
923	83060500	0	0	0	0	0	0	0	0	0	0	0	0	0	:
924	83060512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
925	83060600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
926	83060612	0	0	0	0	0	0	0	0	0	0	0	0	0	:
927	83060700	0	0	0	164	459	425	385	348	315	284	258	233	2871	OOOOOOOOOOOOOOO
928	83060712	211	191	173	157	142	128	116	104	95	99	89	81	1586	OOOOOOOOO
929	83060800	73	66	31	0	0	0	0	0	0	0	0	0	170	OO
930	83060812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
931	83060900	0	0	0	0	0	0	0	0	0	0	0	0	0	:
932	83060912	0	83	389	395	357	323	292	264	239	217	196	177	2932	OOOOOOOOOOOOOOO
933	83061000	160	145	131	119	108	97	88	92	83	75	68	61	1227	OOOOOOO
934	83061012	56	50	46	41	37	34	31	28	25	23	20	19	410	OOO
935	83061100	17	15	14	12	11	10	9	8	8	5	0	0	109	OO
936	83061112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
937	83061200	0	0	2	256	428	388	351	318	287	260	235	213	2738	OOOOOOOOOOOOOO
938	83061212	192	174	157	143	129	117	105	96	99	90	81	74	1457	OOOOOOOO
939	83061300	67	60	55	49	45	40	37	33	30	27	15	0	458	OOO
940	83061312	0	0	0	0	0	0	0	0	0	0	0	0	0	:
941	83061400	0	0	0	0	0	0	0	0	0	0	2	254	256	OO
942	83061412	425	385	349	316	285	258	234	211	191	173	157	142	3126	OOOOOOOOOOOOOOOOO
943	83061500	128	116	105	95	99	89	81	73	66	60	54	49	1015	OOOOOO
944	83061512	44	40	36	33	30	27	24	22	0	0	0	0	256	OO
945	83061600	0	0	0	0	0	0	0	0	0	0	0	45	45	O
946	83061612	376	425	385	348	315	285	258	233	211	191	173	157	3357	OOOOOOOOOOOOOOOOO
947	83061700	142	128	116	105	95	99	89	81	73	66	60	54	1108	OOOOOOO
948	83061712	49	34	0	0	0	0	0	0	0	0	0	0	83	O
949	83061800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
950	83061812	0	0	0	0	0	0	1	10	19	24	28	30	112	OO
951	83061900	155	467	443	402	366	333	305	278	263	260	251	237	3760	OOOOOOOOOOOOOOOOOOO
952	83061912	223	208	194	180	166	151	133	119	101	86	65	59	1685	OOOOOOOOO
953	83062000	53	25	0	0	0	0	0	0	0	0	0	0	78	O
954	83062012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
955	83062100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
956	83062112	0	0	0	231	539	492	445	402	364	339	325	304	3441	OOOOOOOOOOOOOOOOO
957	83062200	278	255	232	214	198	163	46	43	30	5	0	0	1464	OOOOOOOO
958	83062212	0	11	25	32	34	34	34	35	37	39	40	37	358	OOO
959	83062300	29	274	450	406	368	333	301	272	247	224	202	183	3289	OOOOOOOOOOOOOOOOO
960	83062312	165	150	136	123	110	100	90	94	85	77	70	63	1263	OOOOOOO

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	HISTOGRAM 0 1 2 3 4
961	83062400	57	52	30	38	51	52	49	49	52	57	58	45	590	OOOO
962	83062412	9	0	0	1	19	34	39	40	40	41	44	46	313	OOO
963	83062500	46	40	22	1	0	0	0	0	0	0	0	0	109	OO
964	83062512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
965	83062600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
966	83062612	0	0	0	0	0	0	0	2	33	51	51	49	186	OO
967	83062700	49	55	59	51	16	0	0	0	0	0	2	18	250	OO
968	83062712	28	32	33	33	34	35	37	39	37	29	12	0	349	OOO
969	83062800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
970	83062812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
971	83062900	0	0	0	0	0	0	0	0	0	0	0	0	0	:
972	83062912	0	0	0	0	0	0	0	0	0	14	39	46	99	O
973	83063000	44	42	44	48	52	47	22	0	0	5	20	29	353	OOO
974	83063012	31	32	32	33	35	37	37	34	24	5	0	0	300	OOO
975	83070100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
976	83070112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
977	83070200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
978	83070212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
979	83070300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
980	83070312	0	0	0	0	0	0	0	0	0	0	0	0	0	:
981	83070400	0	0	0	0	0	0	0	0	0	0	0	0	0	:
982	83070412	0	0	0	0	0	0	0	0	0	0	0	0	0	:
983	83070500	0	0	0	0	0	0	0	0	0	0	0	0	0	:
984	83070512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
985	83070600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
986	83070612	0	0	0	0	0	0	0	0	0	0	0	0	0	:
987	83070700	0	0	0	0	0	0	0	0	0	0	0	0	0	:
988	83070712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
989	83070800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
990	83070812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
991	83070900	0	0	0	0	0	0	0	0	0	0	0	0	0	:
992	83070912	0	0	0	0	0	0	0	0	0	0	0	0	0	:
993	83071000	0	0	0	0	0	0	0	0	0	0	0	0	0	:
994	83071012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
995	83071100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
996	83071112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
997	83071200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
998	83071212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
999	83071300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1000	83071312	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1001	83071400	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1002	83071412	0	81	379	385	348	315	284	258	233	211	191	172	2857	OOOOOOOOOOOOOOO
1003	83071500	157	141	128	116	104	95	99	89	81	73	66	60	1209	OOOOOOO
1004	83071512	54	49	44	40	36	33	30	27	24	22	20	18	397	OOO
1005	83071600	16	15	13	12	11	10	9	8	7	7	6	5	119	OO
1006	83071612	5	4	4	4	3	3	3	2	2	2	2	2	36	O
1007	83071700	2	1	1	1	1	1	1	1	1	1	1	1	13	O
1008	83071712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1009	83071800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1010	83071812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1011	83071900	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1012	83071912	0	0	7	281	414	375	339	307	278	251	227	205	2684	OOOOOOOOOOOOOO
1013	83072000	186	169	152	138	124	113	102	92	96	87	79	71	1409	OOOOOOOO
1014	83072012	64	58	53	48	43	39	35	32	29	26	24	21	472	OOO
1015	83072100	19	18	16	14	2	0	0	0	0	0	0	0	69	O
1016	83072112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1017	83072200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1018	83072212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1019	83072300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1020	83072312	0	0	0	0	0	0	0	0	0	0	0	0	0	:

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	******HISTOGRAM****** 0 1 2 3 4
1021	83072400	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1022	83072412	0	0	0	0	0	0	0	0	0	0	229	449	678	OOOO
1023	83072500	406	368	332	301	272	246	223	202	183	165	150	136	2984	OOOOOOOOOOOOOOO
1024	83072512	123	110	100	90	94	85	77	70	63	57	52	47	968	OOOOOO
1025	83072600	11	0	0	0	0	0	0	0	0	0	0	0	11	O
1026	83072612	0	0	0	0	0	0	1	23	39	42	41	39	185	OO
1027	83072700	40	42	46	48	40	16	0	0	3	14	21	25	295	OO
1028	83072712	26	26	26	27	27	29	30	31	37	52	64	70	445	OOO
1029	83072800	72	65	58	52	47	42	37	34	30	27	24	22	510	OOOO
1030	83072812	19	17	16	14	12	11	10	9	8	7	6	6	135	OO
1031	83072900	5	5	4	4	3	3	3	2	2	2	2	2	37	O
1032	83072912	1	1	1	4	33	47	48	46	46	50	54	51	382	OOO
1033	83073000	30	1	0	0	14	31	37	38	38	40	43	45	317	OOO
1034	83073012	41	26	2	0	0	0	0	0	0	0	0	0	69	O
1035	83073100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1036	83073112	0	0	0	0	0	0	0	0	0	12	45	55	112	OO
1037	83080100	53	51	53	59	62	47	8	0	0	3	21	33	390	OOO
1038	83080112	37	38	38	81	388	437	399	358	312	268	242	219	2817	OOOOOOOOOOOOOO
1039	83080200	198	179	162	147	133	120	109	98	89	98	94	104	1531	OOOOOOOOO
1040	83080212	114	118	107	97	100	90	81	73	66	59	53	48	1006	OOOOOO
1041	83080300	43	39	35	31	28	26	23	20	18	16	15	14	308	OOO
1042	83080312	13	40	57	58	50	51	55	56	47	12	0	0	439	OOO
1043	83080400	10	28	34	36	36	37	40	42	57	350	434	388	1492	OOOOOOOO
1044	83080412	351	318	287	260	235	213	192	174	157	143	129	117	2576	OOOOOOOOOOOOOO
1045	83080500	105	96	99	90	81	74	67	60	55	49	34	0	810	OOOOO
1046	83080512	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1047	83080600	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1048	83080612	0	0	0	0	0	0	0	0	0	0	0	124	124	OO
1049	83080700	428	405	366	331	300	271	245	222	201	182	164	149	3264	OOOOOOOOOOOOOOOO
1050	83080712	135	122	110	100	90	94	85	77	70	63	57	52	1055	OOOOOO
1051	83080800	47	42	20	0	0	0	0	0	0	0	0	0	109	OO
1052	83080812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1053	83080900	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1054	83080912	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1055	83081000	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1056	83081012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1057	83081100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1058	83081112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1059	83081200	0	0	0	77	398	411	371	337	305	275	249	225	2648	OOOOOOOOOOOOOO
1060	83081212	204	184	167	151	137	124	112	101	91	95	86	78	1530	OOOOOOOOO
1061	83081300	71	64	58	52	47	43	39	0	0	0	0	0	374	OOO
1062	83081312	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1063	83081400	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1064	83081412	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1065	83081500	0	0	0	0	117	400	378	343	310	280	254	230	2312	OOOOOOOOOOOO
1066	83081512	208	188	170	154	139	126	114	104	93	97	88	80	1561	OOOOOOOOO
1067	83081600	72	65	59	53	48	44	40	36	32	29	27	24	529	OOOO
1068	83081612	22	20	18	16	15	13	12	11	10	9	8	7	161	OO
1069	83081700	7	6	5	5	4	4	4	3	3	3	2	2	48	O
1070	83081712	2	2	2	2	1	1	1	1	1	1	1	1	16	O
1071	83081800	1	1	1	0	0	0	0	0	0	0	0	0	3	O
1072	83081812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1073	83081900	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1074	83081912	0	0	0	0	0	1	17	37	56	75	73	66	325	OOO
1075	83082000	59	53	47	42	38	34	30	27	24	22	20	18	414	OOO
1076	83082012	16	14	13	11	10	9	8	7	7	6	5	5	111	OO
1077	83082100	4	4	3	3	3	2	2	2	2	0	0	0	25	O
1078	83082112	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1079	83082200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1080	83082212	0	0	0	0	0	0	0	0	0	0	0	0	0	:

SOURCE EMISSION RATES (CI/HR)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	******HISTOGRAM****** 0 1 2 3 4
1081	83082300	0	0	0	63	385	411	371	336	304	275	249	225	2619	OOOOOOOOOOOOOO
1082	83082312	204	184	167	151	137	124	112	101	91	95	86	78	1530	OOOOOOOOO
1083	83082400	71	64	58	52	47	43	39	0	0	0	0	0	374	OOO
1084	83082412	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1085	83082500	0	0	0	0	0	0	0	0	0	0	0	124	124	OO
1086	83082512	426	403	365	330	298	271	244	221	200	181	164	148	3251	OOOOOOOOOOOOOOOOO
1087	83082600	134	122	110	99	90	94	85	77	69	63	57	51	1051	OOOOOO
1088	83082612	46	42	38	34	0	0	0	0	0	0	0	0	160	OO
1089	83082700	0	0	0	0	0	0	0	0	0	0	185	434	619	OOOO
1090	83082712	396	358	324	293	265	240	218	197	177	161	145	131	2905	OOOOOOOOOOOOOOOO
1091	83082800	119	108	97	88	92	83	75	68	62	56	50	46	944	OOOOOO
1092	83082812	41	37	17	0	0	0	0	0	0	0	0	0	95	O
1093	83082900	0	0	0	0	0	7	299	441	399	361	327	296	2130	OOOOOOOOOOO
1094	83082912	268	242	219	198	179	163	147	133	120	109	98	89	1965	OOOOOOOOOO
1095	83083000	93	84	76	69	62	56	51	12	0	0	0	0	503	OOOO
1096	83083012	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1097	83083100	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1098	83083112	0	0	0	0	0	0	0	0	0	4	30	43	77	O
1099	83090100	44	42	41	44	140	566	562	485	433	392	362	340	3451	OOOOOOOOOOOOOOOOO
1100	83090112	315	289	264	242	223	205	35	36	33	24	6	0	1672	OOOOOOOOO
1101	83090200	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1102	83090212	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1103	83090300	0	0	5	25	32	32	30	31	33	36	35	20	279	OO
1104	83090312	1	0	0	1	11	17	20	21	21	21	21	23	157	OO
1105	83090400	24	24	250	452	400	358	324	292	264	240	217	197	3042	OOOOOOOOOOOOOOO
1106	83090412	177	161	145	131	119	108	97	88	92	83	75	68	1344	OOOOOOOO
1107	83090500	62	56	50	46	41	37	0	0	0	0	0	0	292	OO
1108	83090512	0	0	0	0	0	0	0	0	0	0	15	33	48	O
1109	83090600	38	38	36	36	38	42	44	38	18	0	0	0	328	OOO
1110	83090612	0	1	14	24	28	30	30	30	31	33	35	34	290	OO
1111	83090700	29	16	1	0	0	0	0	0	0	0	0	0	46	O
1112	83090712	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1113	83090800	0	0	0	0	0	0	16	331	438	397	358	325	1865	OOOOOOOOOO
1114	83090812	293	265	240	218	197	178	161	146	132	119	108	97	2154	OOOOOOOOOOO
1115	83090900	89	92	83	75	84	93	91	85	32	32	35	38	829	OOOOO
1116	83090912	39	32	12	0	0	0	0	0	0	0	0	0	83	O
1117	83091000	0	0	0	0	0	0	0	0	125	431	407	368	1331	OOOOOOOO
1118	83091012	333	302	273	247	224	202	183	165	150	136	123	111	2449	OOOOOOOOOOOOO
1119	83091100	100	90	94	86	77	70	63	57	52	47	11	0	747	OOOOO
1120	83091112	5	13	17	19	20	20	20	107	437	433	395	360	1846	OOOOOOOOO
1121	83091200	327	297	267	236	206	186	168	152	137	124	113	102	2315	OOOOOOOOOOOO
1122	83091212	92	96	87	79	71	64	58	53	48	43	14	0	705	OOOOO
1123	83091300	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1124	83091312	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1125	83091400	0	0	0	0	0	0	0	0	118	405	383	346	1252	OOOOOOO
1126	83091412	313	284	257	232	210	190	172	156	141	127	116	104	2302	OOOOOOOOOOOO
1127	83091500	95	98	89	80	75	298	455	412	372	337	305	276	2892	OOOOOOOOOOOOOO
1128	83091512	250	226	204	184	167	151	137	124	112	101	92	96	1844	OOOOOOOOO
1129	83091600	87	78	71	64	58	52	47	43	38	33	28	26	625	OOOO
1130	83091612	23	21	19	17	16	14	13	12	10	9	9	8	171	OO
1131	83091700	7	6	6	5	5	4	4	3	0	0	0	0	40	O
1132	83091712	0	0	0	0	0	0	0	0	65	396	422	382	1265	OOOOOOO
1133	83091800	345	312	283	256	231	210	190	171	155	140	127	115	2535	OOOOOOOOOOOOO
1134	83091812	104	94	98	89	80	73	66	59	54	49	44	14	824	OOOOO
1135	83091900	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1136	83091912	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1137	83092000	0	0	0	0	0	0	225	443	401	363	328	297	2057	OOOOOOOOOO
1138	83092012	269	243	220	199	180	163	147	133	121	110	99	90	1974	OOOOOOOOOO
1139	83092100	93	84	76	69	62	56	51	46	11	0	0	0	548	OOOO
1140	83092112	0	0	0	0	0	0	0	0	0	0	0	0	0	:

SOURCE EMISSION RATES (CI/HR)

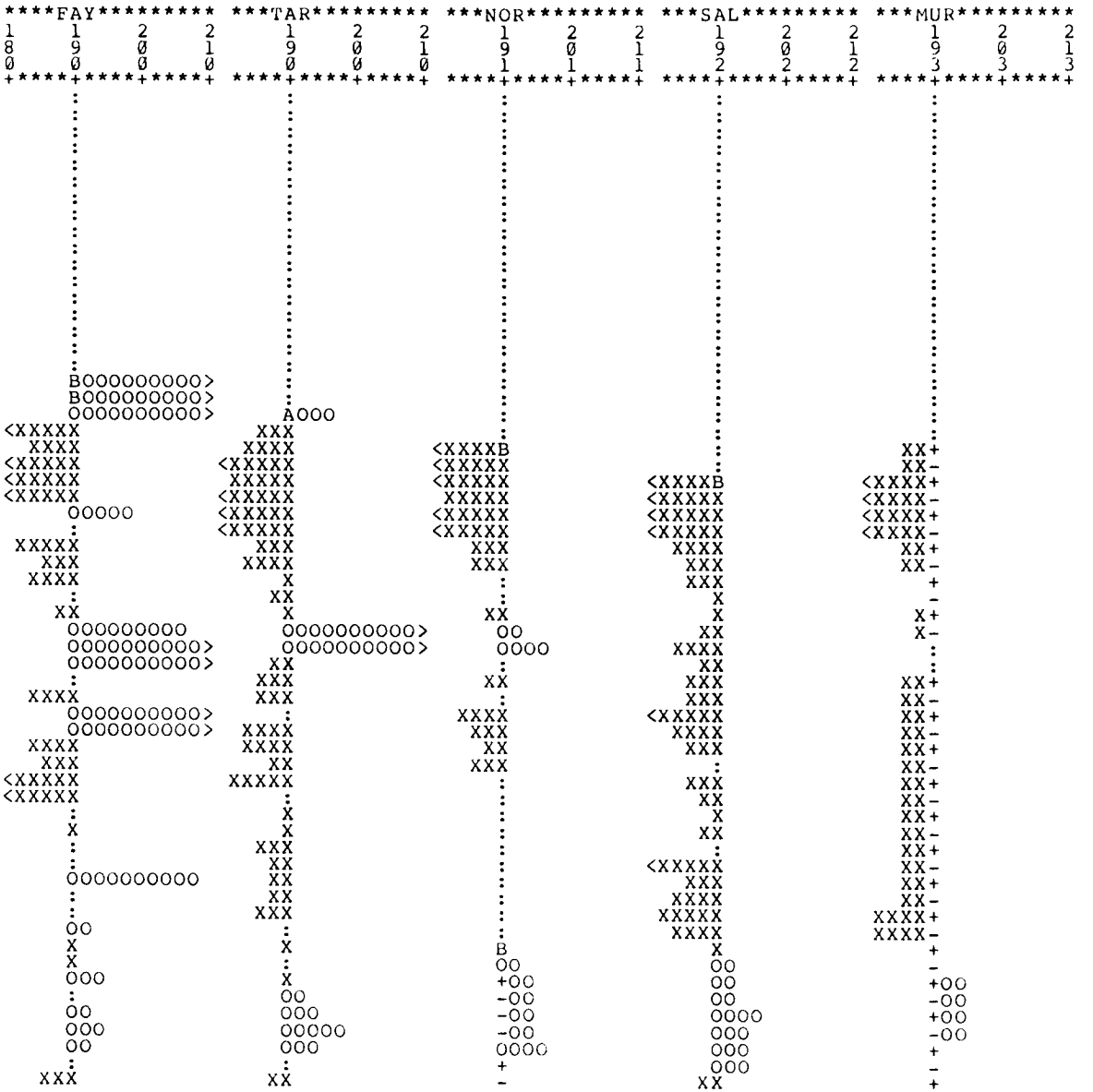
REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	HOURS AFTER START 00	01	02	03	04	05	06	07	08	09	10	11	12 HOUR TOTAL	HISTOGRAM 0 1 2 3 4
1141	83092200	0	0	0	0	225	443	401	363	328	297	269	243	2569	OOOOOOOOOOOOO
1142	83092212	220	199	180	163	148	133	121	110	99	90	93	84	1640	OOOOOOOOO
1143	83092300	76	69	62	56	51	46	7	0	0	0	0	0	367	OOO
1144	83092312	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1145	83092400	0	0	0	0	108	370	350	316	286	258	234	212	2134	OOOOOOOOOOO
1146	83092412	191	173	157	142	129	117	111	112	109	102	94	99	1536	OOOOOOOOO
1147	83092500	91	86	83	80	76	67	52	1	0	0	0	1	537	OOOO
1148	83092512	9	17	21	22	22	23	23	24	25	26	26	23	261	OO
1149	83092600	16	4	0	0	0	0	0	0	0	0	0	0	20	O
1150	83092612	0	0	0	0	0	0	2	268	449	406	368	333	1826	OOOOOOOOOO
1151	83092700	301	272	246	223	202	183	165	150	136	123	110	100	2211	OOOOOOOOOOO
1152	83092712	90	94	85	77	70	63	57	18	0	0	0	0	554	OOOO
1153	83092800	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1154	83092812	0	0	0	0	0	0	0	0	0	0	0	0	0	:
1155	83092900	0	0	0	0	0	0	0	0	0	191	447	407	1045	OOOOOO
1156	83092912	369	333	302	273	247	224	202	183	165	150	136	123	2707	OOOOOOOOOOOOOO
1157	83093000	111	100	90	95	86	77	70	63	57	52	36	0	837	OOOOO
1158	83093012	0	0	0	0	0	0	0	0	0	0	0	0	0	:

APPENDIX B

MEASURED SURFACE AIR CONCENTRATIONS

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR
1	82030102	0	0	0	0	0
2	82030114	0	0	0	0	0
3	82030202	0	0	0	0	0
4	82030214	0	0	0	0	0
5	82030302	0	0	0	0	0
6	82030314	0	0	0	0	0
7	82030402	0	0	0	0	0
8	82030414	0	0	0	0	0
9	82030502	0	0	0	0	0
10	82030514	0	0	0	0	0
11	82030602	0	0	0	0	0
12	82030614	0	0	0	0	0
13	82030702	0	0	0	0	0
14	82030714	0	0	0	0	0
15	82030802	0	0	0	0	0
16	82030814	0	0	0	0	0
17	82030902	0	0	0	0	0
18	82030914	B245	0	0	0	0
19	82031002	B252	0	0	0	0
20	82031014	214	A195	0	0	0
21	82031102	180	186	0	0	0
22	82031114	183	184	B180	0	188+
23	82031202	178	177	177	0	188-
24	82031214	175	181	179	B178	181+
25	82031302	177	179	182	179	181-
26	82031314	197	176	175	177	182+
27	82031402	0	174	174	182	182-
28	82031414	182	186	186	186	189+
29	82031502	185	184	186	187	189-
30	82031514	184	189	0	187	192+
31	82031602	0	187	0	191	192-
32	82031614	188	189	189	191	191+
33	82031702	206	231	192	189	191-
34	82031714	289	280	197	185	0
35	82031802	239	187	0	189	0
36	82031814	0	185	188	188	189+
37	82031902	184	185	0	188	189-
38	82031914	218	0	184	182	188+
39	82032002	227	183	186	186	188-
40	82032014	184	184	188	188	188+
41	82032102	185	187	187	0	188-
42	82032114	178	182	0	188	189+
43	82032202	180	0	0	190	189-
44	82032214	0	190	0	192	188+
45	82032302	189	190	0	189	188-
46	82032314	0	186	0	0	189+
47	82032402	0	187	0	179	189-
48	82032414	207	188	0	187	189+
49	82032502	0	187	0	186	189-
50	82032514	0	185	0	184	185+
51	82032602	192	0	0	186	185-
52	82032614	189	190	B191	191	193+
53	82032702	190	0	192	194	193-
54	82032714	193	190	195+	193	196+
55	82032802	0	191	195-	194	196-
56	82032814	192	193	195-	198	196+
57	82032902	193	197	195-	196	196-
58	82032914	191	193	196	196	192+
59	82033002	0	0	191+	196	192-
60	82033014	185	188	191-	189	192+

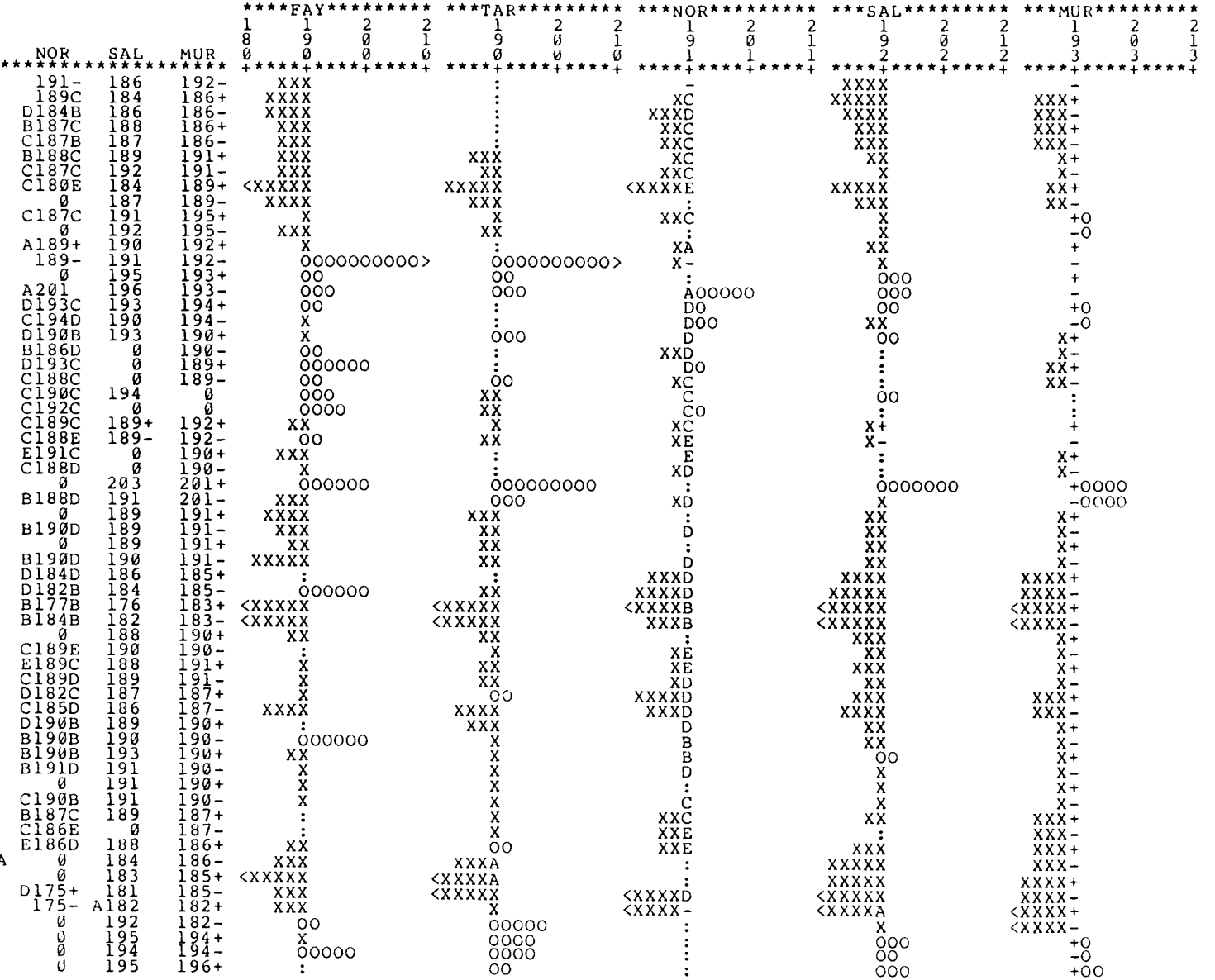
HISTOGRAM



+ = VALUE CONTINUED, - = CONTINUATION
A = 1 HOUR LATE, B = 2 HOURS LATE, ETC.
(LATE START BEFORE VALUE, LATE END AFTER VALUE)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR
61	82033102	185	0	191-	186	192-
62	82033114	183	0	189C	184	186+
63	82040102	184	0	D184B	186	186-
64	82040114	185	0	B187C	188	186+
65	82040202	186	0	C187B	187	186-
66	82040214	186	185	B188C	189	191+
67	82040302	186	187	C187C	192	191-
68	82040314	180	181	C180E	184	189+
69	82040402	184	185	0	187	189-
70	82040414	189	189	C187C	191	195+
71	82040502	186	187	0	192	195-
72	82040514	189	0	A189+	190	192+
73	82040602	315	225	189-	191	192-
74	82040614	192	192	0	195	193+
75	82040702	193	193	A201	196	193-
76	82040714	191	0	D193C	193	194+
77	82040802	189	0	C194D	190	194-
78	82040814	189	193	D190B	193	190+
79	82040902	191	0	B186D	0	190-
80	82040914	199	0	D193C	0	189+
81	82041002	191	192	C188C	0	189-
82	82041014	193	188	C190C	194	0
83	82041102	195	188	C192C	0	0
84	82041114	188	189	C189C	189+	192+
85	82041202	191	188	C188E	189-	192-
86	82041214	186	0	E191C	0	190+
87	82041302	190	0	C188D	0	190-
88	82041314	200	205	0	203	201+
89	82041402	186	193	B188D	191	201-
90	82041414	183	186	0	189	191+
91	82041502	185	187	B190D	189	191-
92	82041514	188	187	0	189	191+
93	82041602	182	187	B190D	190	191-
94	82041614	0	0	D184D	186	185+
95	82041702	199	188	D182B	184	185-
96	82041714	173	178	B177B	176	183+
97	82041802	176	177	B184B	182	183-
98	82041814	187	188	0	188	190+
99	82041902	0	190	C189E	190	190-
100	82041914	189	188	E189C	188	191+
101	82042002	189	188	C189D	189	191-
102	82042014	189	191	D182C	187	187+
103	82042102	184	184	C185D	186	187-
104	82042114	0	186	D190B	189	190+
105	82042202	200	189	B190B	190	190-
106	82042214	188	190	B190B	193	190+
107	82042302	190	190	B191D	191	190-
108	82042314	190	190	0	191	190+
109	82042402	190	190	C190B	191	190-
110	82042414	0	189	B187C	189	187+
111	82042501	0	189	C186E	0	187-
112	82042513	187	192	E186D	188	186+
113	82042601	185	A183A	0	184	186-
114	82042613	177	A178	0	183	185+
115	82042701	186	178	D175+	181	185-
116	82042713	186	189	175-	A182	182+
117	82042801	191	198	0	192	182-
118	82042813	190	196	0	195	194+
119	82042901	197	196	0	194	194-
120	82042913	0	191	0	195	196+

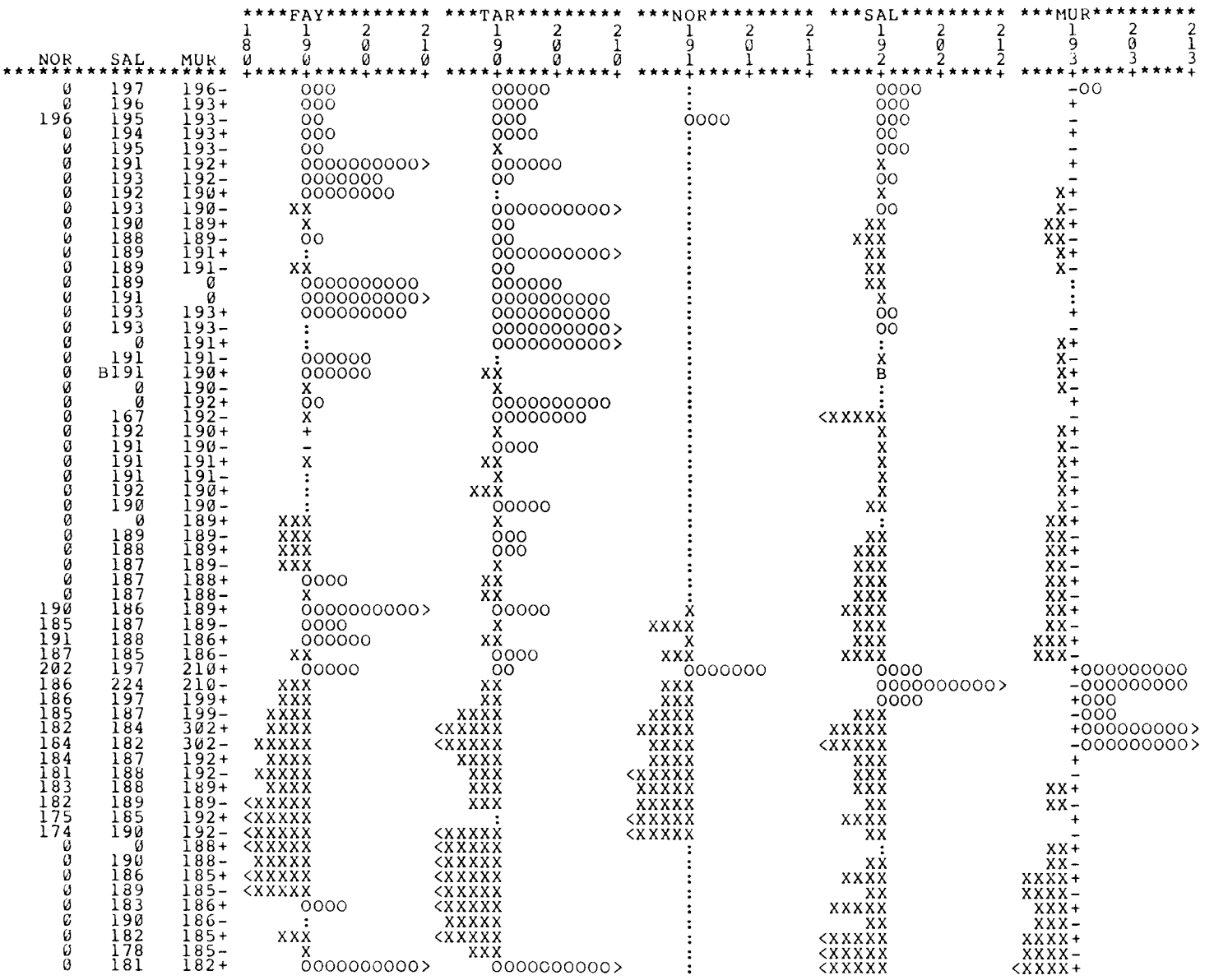
HISTOGRAM



+ = VALUE CONTINUED, - = CONTINUATION
A = 1 HOUR LATE, B = 2 HOURS LATE, ETC.
(LATE START BEFORE VALUE, LATE END AFTER VALUE)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR
121	82043001	194	197	0	197	196-
122	82043013	193	195	0	196	193+
123	82050101	192	194	196	195	193-
124	82050193	194	195	0	194	193+
125	82050201	192	190	0	195	193-
126	82050213	371	199	0	191	192+
127	82050301	202	192	0	193	192-
128	82050313	203	0	0	192	190+
129	82050401	188	213	0	193	190-
130	82050413	190	191	0	190	189+
131	82050501	191	192	0	188	189-
132	82050513	0	209	0	189	191+
133	82050601	188	191	0	189	191-
134	82050613	207	199	0	189	0
135	82050701	209	208	0	191	0
136	82050713	205	208	0	193	193+
137	82050801	0	305	0	193	193-
138	82050813	0	222	0	0	191+
139	82050901	199	0	0	191	191-
140	82050913	199	188	0	B191	190+
141	82051001	189	189	0	0	190-
142	82051013	192	207	0	0	192+
143	82051101	189	204	0	167	192-
144	82051113	190+	189	0	192	190+
145	82051201	190-	195	0	191	190-
146	82051213	190	188	0	191	191+
147	82051301	0	189	0	191	191-
148	82051313	0	186	0	192	190+
149	82051401	0	198	0	190	190-
150	82051413	185	190	0	0	189+
151	82051501	186	194	0	189	189-
152	82051513	186	194	0	188	189+
153	82051601	185	189	0	187	189-
154	82051613	196	187	0	187	188+
155	82051701	189	187	0	187	188-
156	82051713	221	197	190	186	189+
157	82051801	195	189	185	187	189-
158	82051813	199	187	191	188	186+
159	82051901	188	195	187	185	186-
160	82051913	198	191	202	197	210+
161	82052001	186	188	186	224	210-
162	82052013	186	187	186	197	199+
163	82052101	184	183	185	187	199-
164	82052113	183	180	182	184	302+
165	82052201	181	180	184	182	302-
166	82052213	183	183	184	187	192+
167	82052301	182	186	181	188	192-
168	82052313	183	185	183	188	189+
169	82052401	173	185	182	189	189-
170	82052413	173	0	175	185	192+
171	82052501	174	172	174	190	192-
172	82052513	180	179	0	0	188+
173	82052601	181	174	0	190	188-
174	82052613	177	179	0	186	185+
175	82052701	175	173	0	189	185-
176	82052713	195	178	0	183	186+
177	82052801	0	181	0	190	186-
178	82052813	185	170	0	182	185+
179	82052901	189	185	0	178	185-
180	82052913	235	526	0	181	182+

HISTOGRAM



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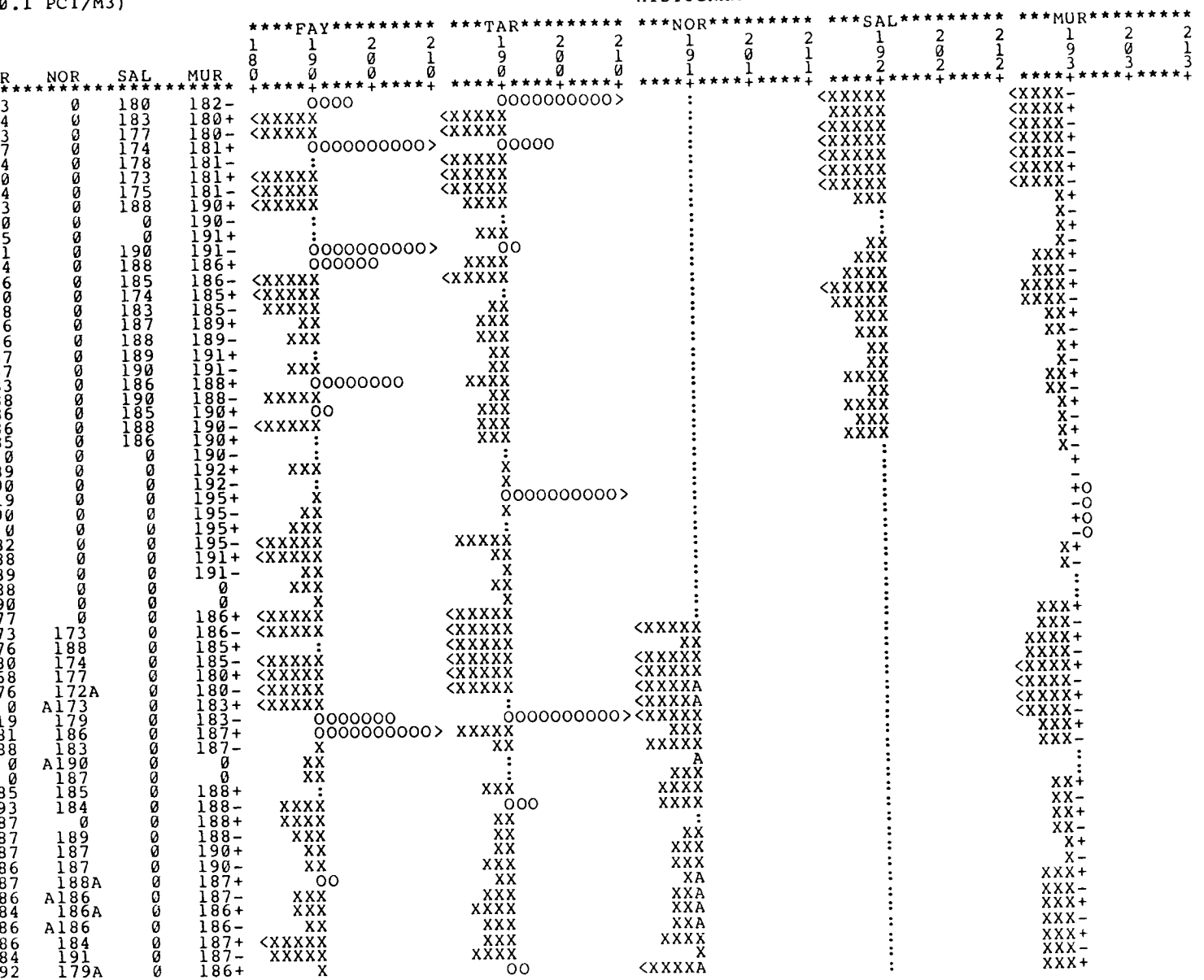
A = 1 HOUR LATE, B = 2 HOURS LATE, ETC.
(LATE START BEFORE VALUE, LATE END AFTER VALUE)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR
181	82053001	196	233	0	180	182-
182	82053013	171	174	0	183	180+
183	82053101	173	173	0	177	180-
184	82053113	241	197	0	174	181+
185	82060101	0	174	0	178	181-
186	82060113	173	170	0	173	181+
187	82060201	172	174	0	175	181-
188	82060213	175	183	0	188	190+
189	82060301	0	0	0	0	190-
190	82060313	0	185	0	0	191+
191	82060401	209	191	0	190	191-
192	82060413	199	184	0	188	186+
193	82060501	176	176	0	185	186-
194	82060513	175	0	0	174	185+
195	82060601	181	188	0	183	185-
196	82060613	187	186	0	187	189+
197	82060701	185	186	0	188	189-
198	82060713	0	187	0	189	191+
199	82060801	185	187	0	190	191-
200	82060813	204	183	0	186	188+
201	82060901	182	188	0	190	188-
202	82060913	192	186	0	185	190+
203	82061001	180	186	0	188	190-
204	82061013	0	185	0	186	190+
205	82061101	0	0	0	0	190-
206	82061113	186	189	0	0	192+
207	82061201	0	190	0	0	192-
208	82061213	189	219	0	0	195+
209	82061301	188	190	0	0	195-
210	82061313	186	0	0	0	195+
211	82061401	176	182	0	0	195-
212	82061413	180	188	0	0	191+
213	82061501	188	189	0	0	191-
214	82061513	186	188	0	0	0
215	82061601	189	190	0	0	0
216	82061613	178	177	0	0	186+
217	82061701	179	173	173	0	186-
218	82061713	0	176	188	0	185+
219	82061801	173	180	174	0	185-
220	82061813	174	168	177	0	180+
221	82061901	174	176	172A	0	180-
222	82061913	176	0	A173	0	183+
223	82062001	202	219	179	0	183-
224	82062013	254	181	186	0	187+
225	82062101	189	188	183	0	187-
226	82062113	187	0	A190	0	0
227	82062201	187	0	187	0	0
228	82062213	0	185	185	0	188+
229	82062301	184	193	184	0	188-
230	82062313	184	187	0	0	188+
231	82062401	186	187	189	0	188-
232	82062413	188	187	187	0	190+
233	82062501	188	186	187	0	190-
234	82062513	192	187	188A	0	187+
235	82062601	185	186	A186	0	187-
236	82062613	186	184	186A	0	186+
237	82062701	187	186	A186	0	186-
238	82062713	178	186	184	0	187+
239	82062801	182	184	191	0	187-
240	82062813	189	192	179A	0	186+

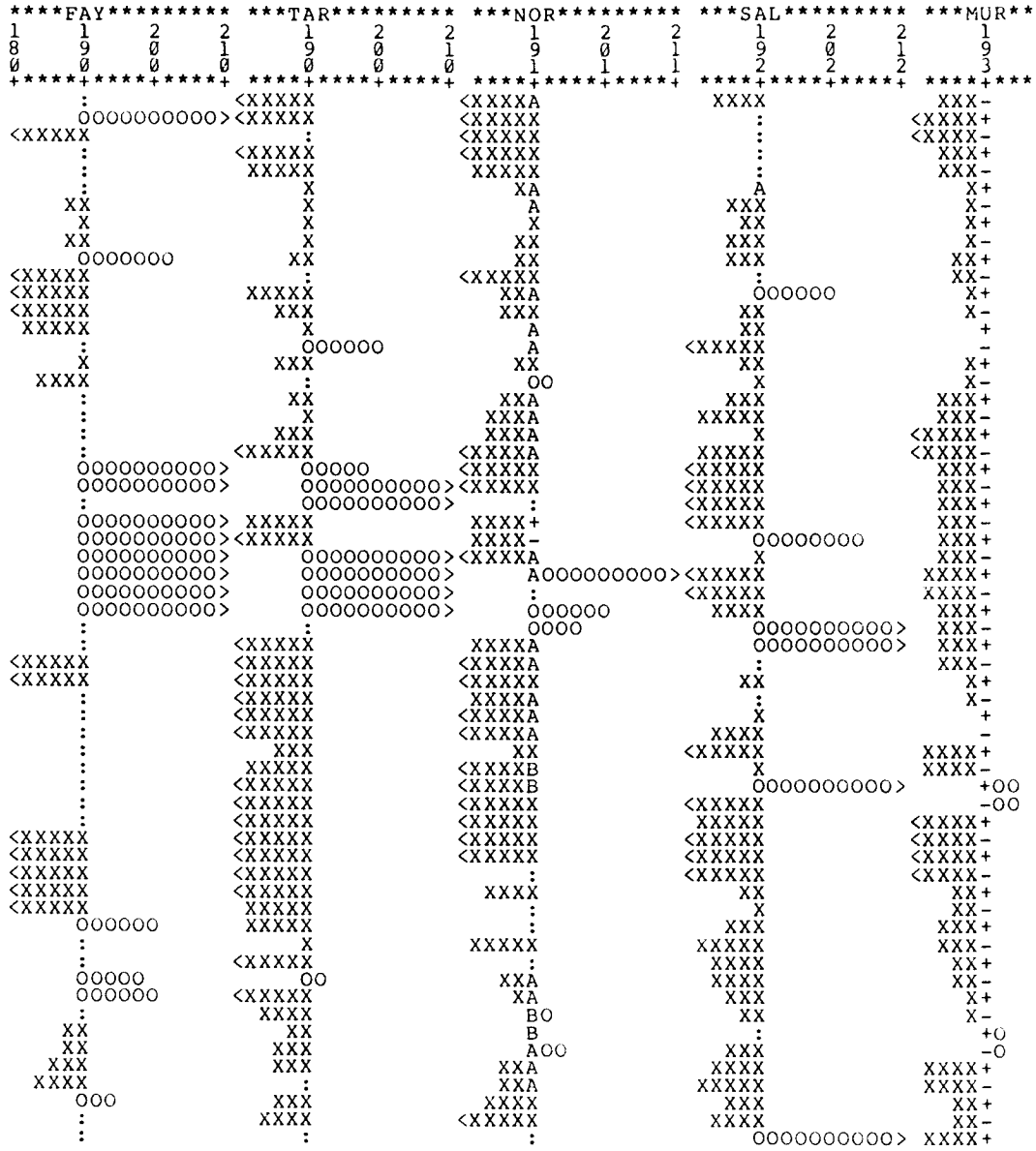
HISTOGRAM



+ = VALUE CONTINUED, - = CONTINUATION
A = 1 HOUR LATE, B = 2 HOURS LATE, ETC.
(LATE START BEFORE VALUE, LATE END AFTER VALUE)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR
241	82062901	0	175	A178	185	186-
242	82062913	273	175	174	0	179+
243	82063001	175	0	175	0	179-
244	82063013	0	177	181	0	187+
245	82070101	0	182	183	0	187-
246	82070113	0	190	189A	A191	190+
247	82070201	188	189	A190	188	190-
248	82070213	190	189	191	189	190+
249	82070301	188	190	189	188	190-
250	82070313	201	188	189	188	189+
251	82070401	177	0	180	0	189-
252	82070413	172	181	A186	201	191+
253	82070501	179	186	187	190	191-
254	82070513	182	190	191A	189	192+
255	82070601	0	200	A191	180	192-
256	82070613	190	186	188	189	191+
257	82070701	183	0	192	192	191-
258	82070713	0	187	186A	188	187+
259	82070801	0	190	A184	183	187-
260	82070813	0	185	185A	191	179+
261	82070901	0	174	A180	184	179-
262	82070913	771	198	180	178	187+
263	82071001	669	310	178	179	187-
264	82071013	0	310	0	179	186+
265	82071101	269	181	183+	182	186-
266	82071113	231	176	183-	206	186+
267	82071201	668	266	A180	191	186-
268	82071213	999	962	438A	177	184+
269	82071301	352	980	0	177	184-
270	82071313	223	269	201	186	186+
271	82071401	0	0	196	224	186-
272	82071413	0	176	183A	225	186+
273	82071501	177	174	A177	0	186-
274	82071513	176	178	178	190	190+
275	82071601	0	178	A182	0	190-
276	82071613	0	177	179A	192	193+
277	82071701	0	178	A177	186	193-
278	82071713	0	185	189	179	185+
279	82071801	0	181	179B	192	185-
280	82071813	0	176	B180	300	197+
281	82071901	0	175	173	180	197-
282	82071913	0	174	174	183	178+
283	82072001	178	176	176	182	178-
284	82072013	174	174	175	179	183+
285	82072101	180	177	0	181	183-
286	82072113	180	180	185	190	189+
287	82072201	177	181	0	191	189-
288	82072213	200	181	0	187	187+
289	82072301	0	190	182	183	187-
290	82072313	0	179	0	186	189+
291	82072401	198	192	186A	185	189-
292	82072413	199	179	A188	188	191+
293	82072501	0	184	193B	189	191-
294	82072513	187	187	B190	0	194+
295	82072601	188	186	194A	187	194-
296	82072613	186	185	A187A	185	184+
297	82072701	183	0	A186	184	184-
298	82072713	193	185	184	188	189+
299	82072801	0	183	181	185	189-
300	82072813	0	0	0	454	185+

HISTOGRAM



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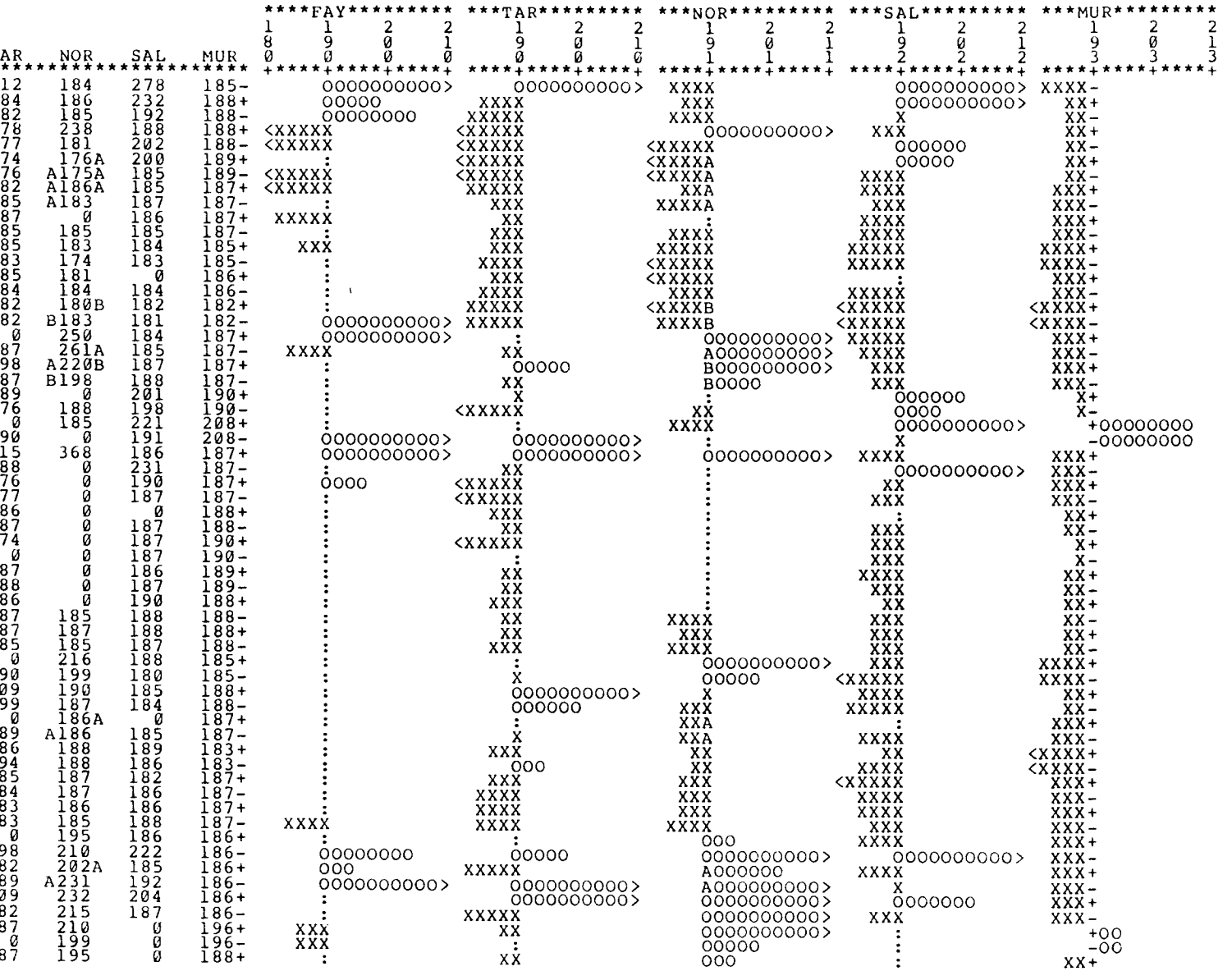
A = 1 HOUR LATE, B = 2 HOURS LATE, ETC.
(LATE START BEFORE VALUE, LATE END AFTER VALUE)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR
301	82072901	213	212	184	278	185-
302	82072913	198	184	186	232	188+
303	82073001	203	182	185	192	188-
304	82073013	177	178	238	188	188+
305	82073101	176	177	181	202	188-
306	82073113	0	174	176A	200	189+
307	82080101	175	176	A175A	185	189-
308	82080113	177	182	A186A	185	187+
309	82080201	0	185	A183	187	187-
310	82080213	181	187	0	186	187+
311	82080301	0	185	185	185	187-
312	82080313	185	185	183	184	185+
313	82080401	0	183	174	183	185-
314	82080413	0	185	181	0	186+
315	82080501	0	184	184	184	186-
316	82080513	0	182	180B	182	182+
317	82080601	292	182	B183	181	182-
318	82080613	246	0	250	184	187+
319	82080701	183	187	261A	185	187-
320	82080713	0	198	A220B	187	187+
321	82080801	0	187	B198	188	187-
322	82080813	0	189	0	201	190+
323	82080901	0	176	188	198	190-
324	82080913	0	0	185	221	208+
325	82081001	217	390	0	191	208-
326	82081013	407	415	368	186	187+
327	82081101	0	188	0	231	187-
328	82081113	196	176	0	190	187+
329	82081201	0	177	0	187	187-
330	82081213	0	186	0	0	188+
331	82081301	0	187	0	187	188-
332	82081313	0	174	0	187	190+
333	82081401	0	0	0	187	190-
334	82081413	0	187	0	186	189+
335	82081501	0	188	0	187	189-
336	82081513	0	186	0	190	188+
337	82081601	0	187	185	188	188-
338	82081613	0	187	187	188	188+
339	82081701	0	185	185	187	188-
340	82081713	0	0	216	188	185+
341	82081801	0	190	199	180	185-
342	82081813	0	209	190	185	188+
343	82081901	0	199	187	184	188-
344	82081913	0	0	186A	0	187+
345	82082001	0	189	A186	185	187-
346	82082013	0	186	188	189	183+
347	82082101	0	194	188	186	183-
348	82082113	0	185	187	182	187+
349	82082201	0	184	187	186	187-
350	82082213	0	183	186	186	187+
351	82082301	184	183	185	188	187-
352	82082313	0	0	195	186	186+
353	82082401	203	198	210	222	186-
354	82082413	193	182	202A	185	186+
355	82082501	325	289	A231	192	186-
356	82082513	0	209	232	204	186+
357	82082601	0	182	215	187	186-
358	82082613	186	187	210	0	196+
359	82082701	186	0	199	0	196-
360	82082713	0	187	195	0	188+

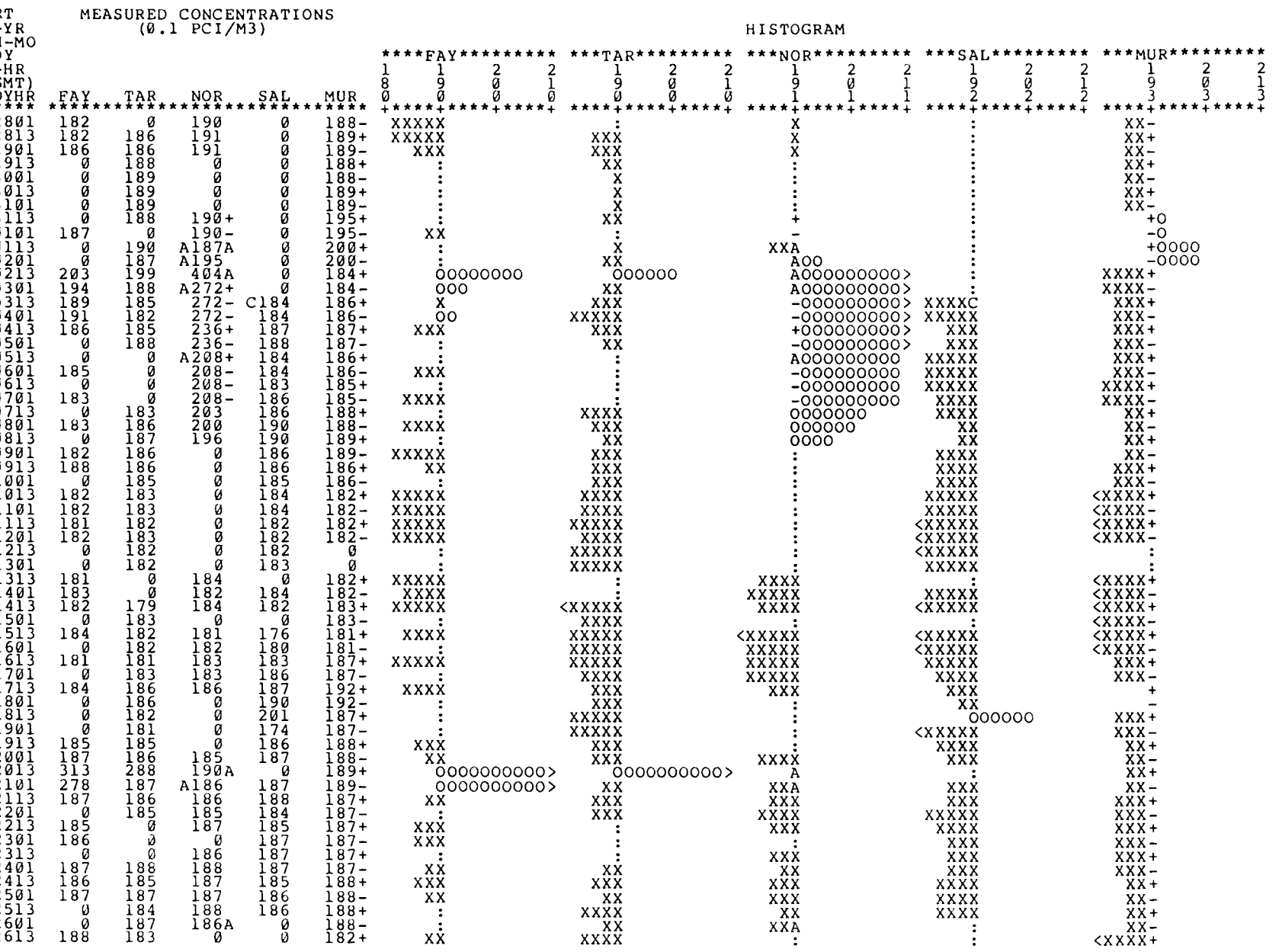
HISTOGRAM



+ = VALUE CONTINUED, - = CONTINUATION
A = 1 HOUR LATE, B = 2 HOURS LATE, ETC.
(LATE START BEFORE VALUE, LATE END AFTER VALUE)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR
361	82082801	182	0	190	0	188-
362	82082813	182	186	191	0	189+
363	82082901	186	186	191	0	189-
364	82082913	0	188	0	0	188+
365	82083001	0	189	0	0	188-
366	82083013	0	189	0	0	189+
367	82083101	0	189	0	0	189-
368	82083113	0	188	190+	0	195+
369	82090101	187	0	190-	0	195-
370	82090113	0	190	A187A	0	200+
371	82090201	0	187	A195	0	200-
372	82090213	203	199	404A	0	184+
373	82090301	194	188	A272+	0	184-
374	82090313	189	185	272-	C184	186+
375	82090401	191	182	272-	184	186-
376	82090413	186	185	236+	187	187+
377	82090501	0	188	236-	188	187-
378	82090513	0	0	A208+	184	186+
379	82090601	185	0	208-	184	186-
380	82090613	0	0	208-	183	185+
381	82090701	183	0	208-	186	185-
382	82090713	0	183	203	186	188+
383	82090801	183	186	200	190	188-
384	82090813	0	187	196	190	189+
385	82090901	182	186	0	186	189-
386	82090913	188	186	0	186	186+
387	82091001	0	185	0	185	186-
388	82091013	182	183	0	184	182+
389	82091101	182	183	0	184	182-
390	82091113	181	182	0	182	182+
391	82091201	182	183	0	182	182-
392	82091213	0	182	0	182	0
393	82091301	0	182	0	183	0
394	82091313	181	0	184	0	182+
395	82091401	183	0	182	184	182-
396	82091413	182	179	184	182	183+
397	82091501	0	183	0	0	183-
398	82091513	184	182	181	176	181+
399	82091601	0	182	182	180	181-
400	82091613	181	181	183	183	187+
401	82091701	0	183	183	186	187-
402	82091713	184	186	186	187	192+
403	82091801	0	186	0	190	192-
404	82091813	0	182	0	201	187+
405	82091901	0	181	0	174	187-
406	82091913	185	185	0	186	188+
407	82092001	187	186	185	187	188-
408	82092013	313	288	190A	0	189+
409	82092101	278	187	A186	187	189-
410	82092113	187	186	186	188	187+
411	82092201	0	185	185	184	187-
412	82092213	185	0	187	185	187+
413	82092301	186	0	0	187	187-
414	82092313	0	0	186	187	187+
415	82092401	187	188	188	187	187-
416	82092413	186	185	187	185	188+
417	82092501	187	187	187	186	188-
418	82092513	0	184	188	186	188+
419	82092601	0	187	186A	0	188-
420	82092613	188	183	0	0	182+

HISTOGRAM



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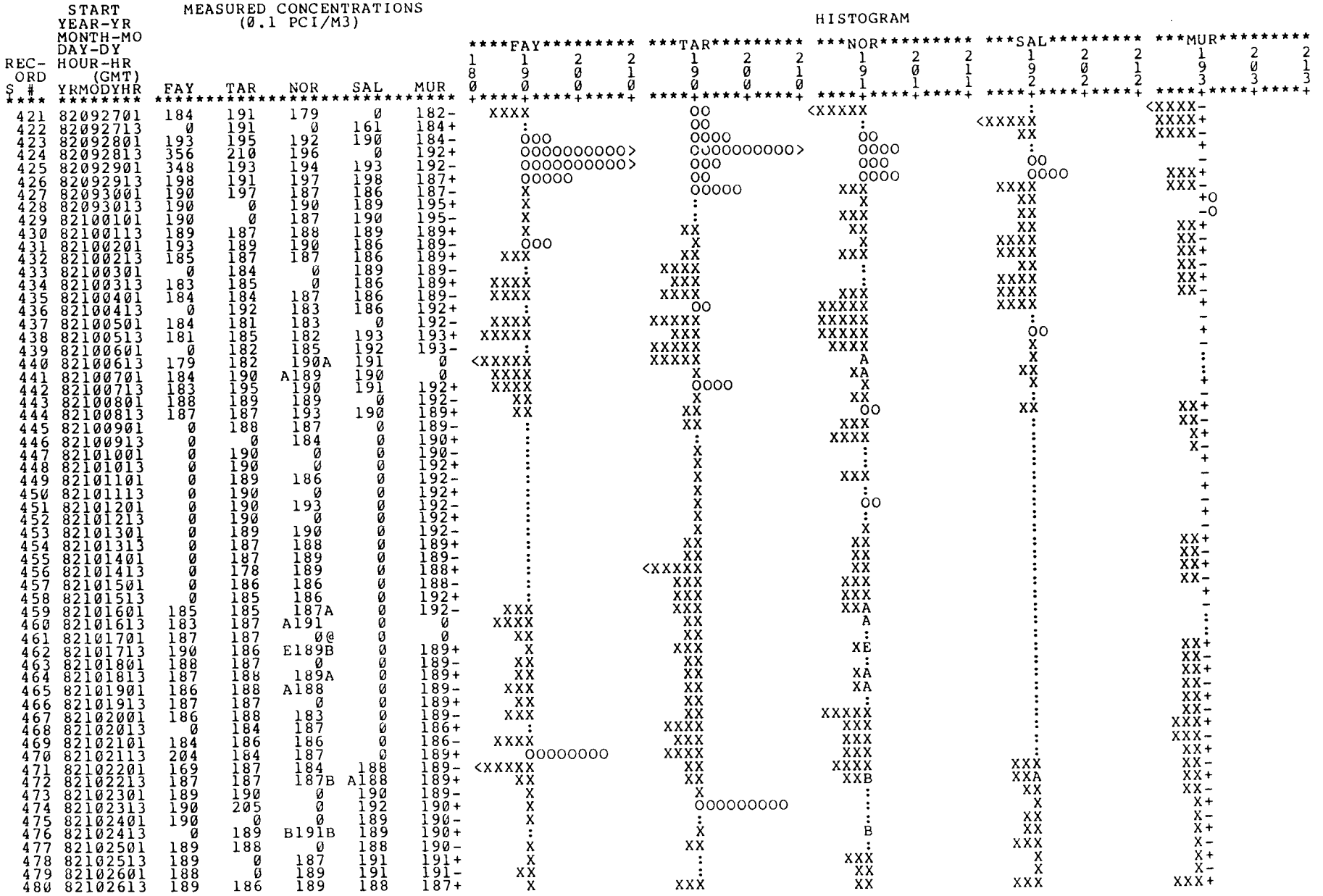
(LATE START BEFORE VALUE, LATE END AFTER VALUE)



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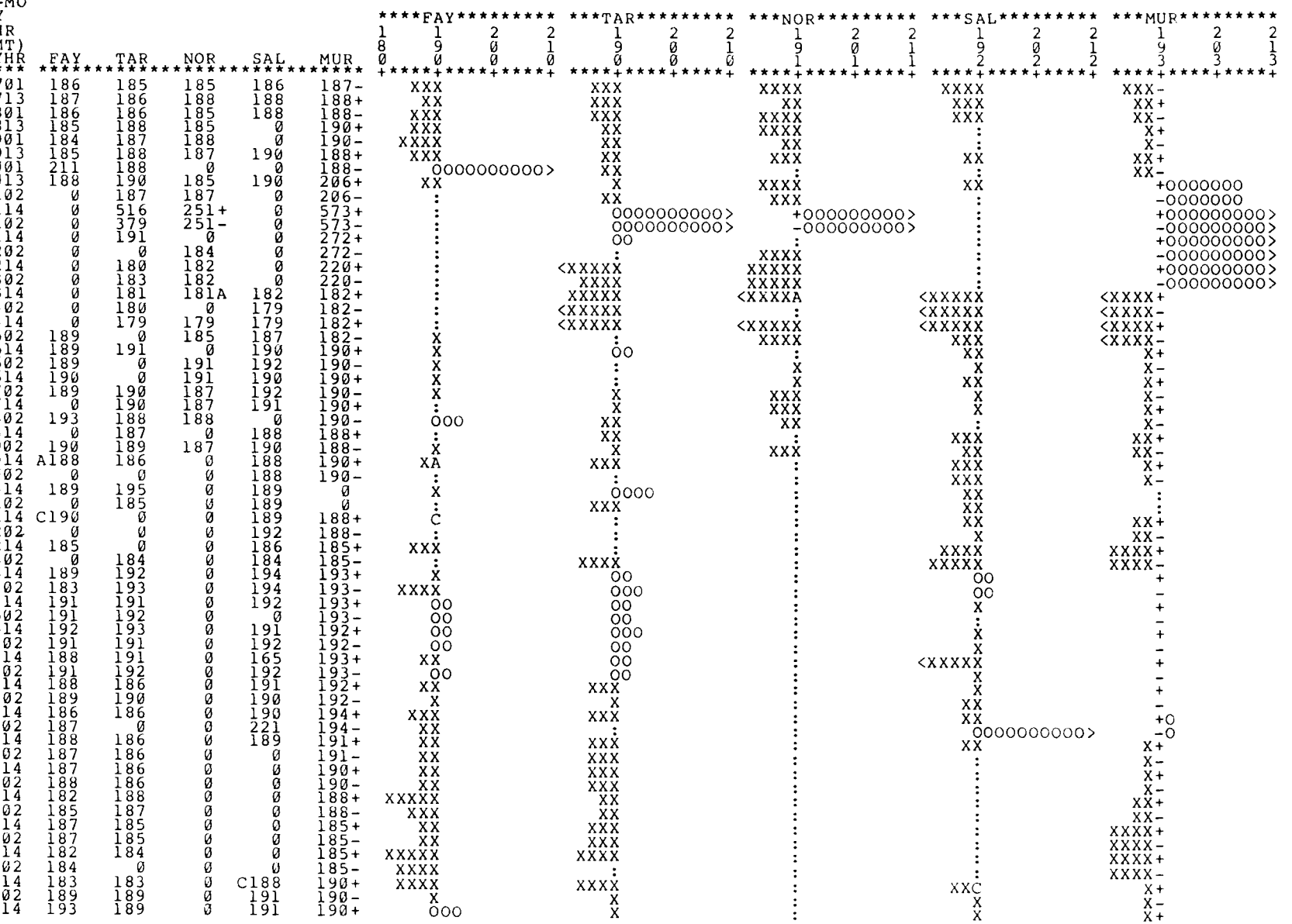
A = 1 HOUR LATE, B = 2 HOURS LATE, ETC.
(LATE START BEFORE VALUE, LATE END AFTER VALUE)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR
481	82102701	186	185	185	186	187-
482	82102713	187	186	188	188	188+
483	82102801	186	186	185	188	188-
484	82102813	185	188	185	0	190+
485	82102901	184	187	188	0	190-
486	82102913	185	188	187	190	188+
487	82103001	211	188	0	0	188-
488	82103013	188	190	185	190	206+
489	82103102	0	187	187	0	206-
490	82103114	0	516	251+	0	573+
491	82110102	0	379	251-	0	573-
492	82110114	0	191	0	0	272+
493	82110202	0	0	184	0	272-
494	82110214	0	180	182	0	220+
495	82110302	0	183	182	0	220-
496	82110314	0	181	181A	182	182+
497	82110402	0	180	0	179	182-
498	82110414	0	179	179	179	182+
499	82110502	189	0	185	187	182-
500	82110514	189	191	0	190	190+
501	82110602	189	0	191	192	190-
502	82110614	190	0	191	190	190+
503	82110702	189	190	187	192	190-
504	82110714	0	190	187	191	190+
505	82110802	193	188	188	0	190-
506	82110814	0	187	0	188	188+
507	82110902	190	189	187	190	188-
508	82110914	A188	186	0	188	190+
509	82111002	0	0	0	188	190-
510	82111014	189	195	0	189	0
511	82111102	0	185	0	189	0
512	82111114	C190	0	0	189	188+
513	82111202	0	0	0	192	188-
514	82111214	185	0	0	186	185+
515	82111302	0	184	0	184	185-
516	82111314	189	192	0	194	193+
517	82111402	183	193	0	194	193-
518	82111414	191	191	0	192	193+
519	82111502	191	192	0	0	193-
520	82111514	192	193	0	191	192+
521	82111602	191	191	0	192	192-
522	82111614	188	191	0	165	193+
523	82111702	191	192	0	192	193-
524	82111714	188	186	0	191	192+
525	82111802	189	190	0	190	192-
526	82111814	186	186	0	190	194+
527	82111902	187	0	0	221	194-
528	82111914	188	186	0	189	191+
529	82112002	187	186	0	0	191-
530	82112014	187	186	0	0	190+
531	82112102	188	186	0	0	190-
532	82112114	182	188	0	0	188+
533	82112202	185	187	0	0	188-
534	82112214	187	185	0	0	185+
535	82112302	187	185	0	0	185-
536	82112314	182	184	0	0	185+
537	82112402	184	0	0	0	185-
538	82112414	183	183	0	C188	190+
539	82112502	189	189	0	191	190-
540	82112514	193	189	0	191	190+

HISTOGRAM



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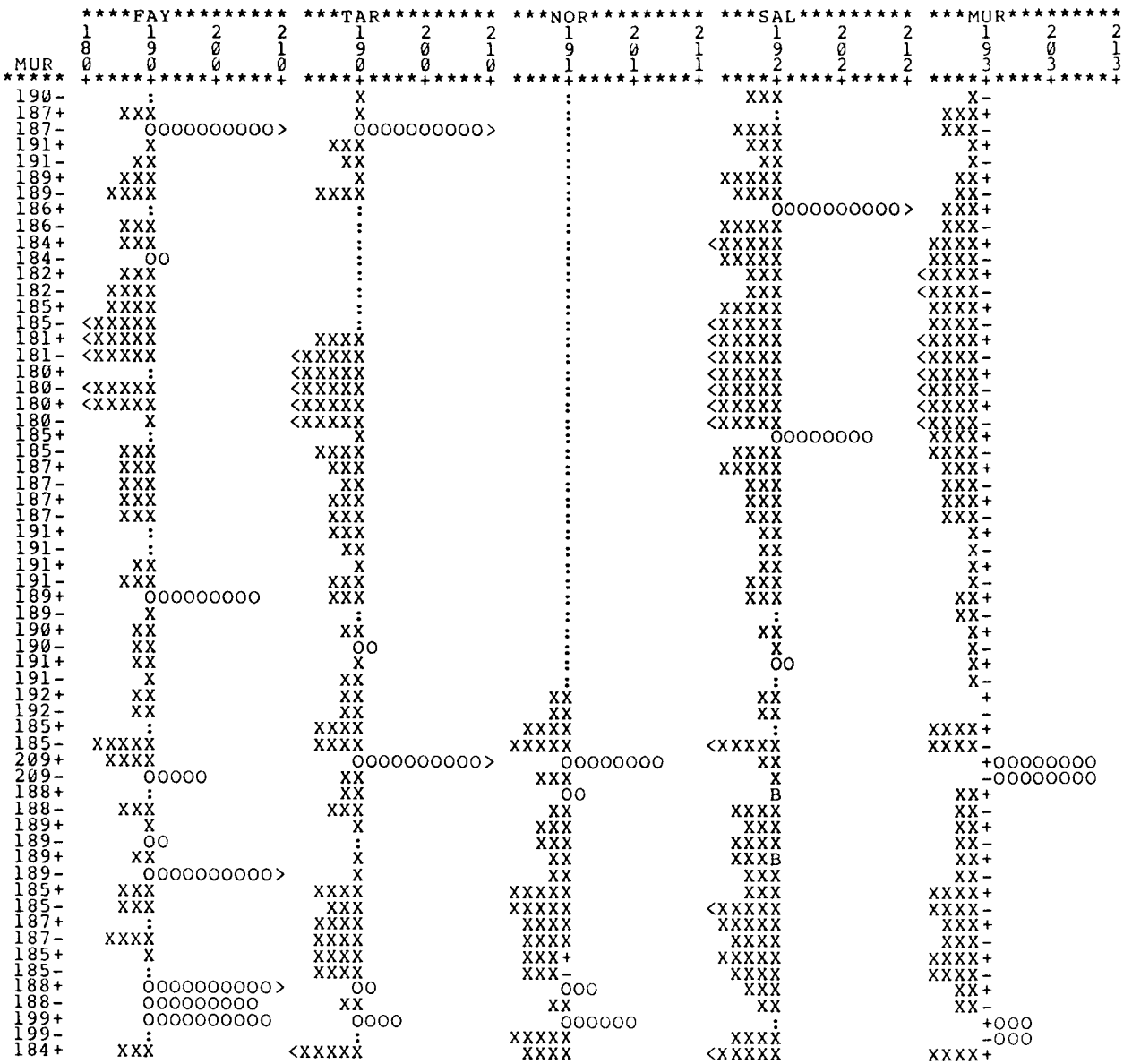
(LATE START BEFORE VALUE, LATE END AFTER VALUE)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR
541	82112602	0	190	0	188	190-
542	82112614	186	189	0	0	187+
543	82112702	330	247	0	186	187-
544	82112714	190	186	0	187	191+
545	82112802	188	188	0	189	191-
546	82112814	186	189	0	184	189+
547	82112902	183	183	0	186	189-
548	82112914	0	0	0	251	186+
549	82113002	186	0	0	184	186-
550	82113014	186	0	0	182	184+
551	82120102	191	0	0	183	184-
552	82120114	185	0	0	188	182+
553	82120202	183	0	0	187	182-
554	82120214	183	0	0	183	185+
555	82120302	179	0	0	182	185-
556	82120314	180	184	0	182	181+
557	82120402	179	179	0	180	181-
558	82120414	0	177	0	177	180+
559	82120502	176	176	0	179	180-
560	82120514	177	179	0	176	180+
561	82120602	189	179	0	180	180-
562	82120614	0	189	0	205	185+
563	82120702	185	183	0	185	185-
564	82120714	185	185	0	184	187+
565	82120802	186	187	0	188	187-
566	82120814	185	186	0	187	187+
567	82120902	185	186	0	188	187-
568	82120914	0	185	0	189	191+
569	82121002	0	187	0	190	191-
570	82121014	187	189	0	190	191+
571	82121102	185	186	0	188	191-
572	82121114	206	186	0	187	189+
573	82121202	189	0	0	0	189-
574	82121214	188	188	0	189	190+
575	82121302	188	191	0	191	190-
576	82121314	187	190	0	193	191+
577	82121402	189	188	0	0	191-
578	82121414	187	188	189	189	192+
579	82121502	188	188	189	189	192-
580	82121514	0	184	184	0	185+
581	82121602	182	184	182	177	185-
582	82121614	184	215	204	190	209+
583	82121702	198	187	187	191	209-
584	82121714	0	188	193	B192	188+
585	82121802	186	186	188	186	188-
586	82121814	189	189	186	187	189+
587	82121902	192	0	187	186	189-
588	82121914	188	190	188	B186	189+
589	82122002	211	189	188	187	189-
590	82122014	186	184	183	187	185+
591	82122102	185	186	183	182	185-
592	82122114	0	183	184	184	187+
593	82122202	184	183	185	185	187-
594	82122214	189	184	185+	184	185+
595	82122302	0	184	185-	185	185-
596	82122314	213	192	194	187	188+
597	82122402	205	187	189	190	188-
598	82122414	207	196	201	0	199+
599	82122502	0	0	182	185	199-
600	82122514	186	180	184	180	184+

HISTOGRAM



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(LATE START BEFORE VALUE, LATE END AFTER VALUE)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR	HISTOGRAM ****FAY*********	***TAR*********	***NOR*********	***SAL*********	***MUR*********
							1 1 2 2	1 2 2	1 2 2	1 2 2	1 2 2
							8 9 0 1	9 0 1	9 0 1	9 0 1	9 0 1
****	********	**********	**********	**********	**********	**********	0 0 0 0 +****+****+****+	0 0 0 +****+****+	1 1 1 +****+****+	2 2 2 +****+****+	3 3 3 +****+****+
601	82122602	0	179	179	183	184-	:	<XXXXX	<XXXXX	XXXXX	XXXX-
602	82122614	0	178	178	182	183+	:	<XXXXX	<XXXXX	<XXXXX	<XXXX+
603	82122702	0	0	179	183	183-	:	:	<XXXXX	XXXXX	<XXXX-
604	82122714	175	0	183	184	188+	<XXXXX	:	XXXXX	XXXXX	XX+
605	82122802	178	0	183	184	188-	<XXXXX	:	XXXXX	XXXXX	XX-
606	82122814	178	177	179	177	179+	<XXXXX	<XXXXX	<XXXXX	<XXXXX	<XXXX+
607	82122902	178	176	179	0	179-	<XXXXX	<XXXXX	<XXXXX	:	<XXXX-
608	82122914	184	195	179	182	183+	XXXX	OOOO	<XXXXX	<XXXXX	<XXXX+
609	82123002	182	176	183	184	183-	XXXXX	<XXXXX	XXXXX	XXXXX	<XXXX-
610	82123014	184	185	188	189	187+	XXXX	XXX	XX	XX	XXX+
611	82123102	185	187	194	185	187-	XXX	XX	OOO	XXXX	XXX-
612	82123114	186	185	184	187	187+	XXX	XXX	XXXX	XXX	XXX+
613	83010102	0	185	185	186	187-	:	XXX	XXXX	XXXX	XXX-
614	83010114	185	185	185	187	186+	XXX	XXX	XXXX	XXX	XXX+
615	83010202	185	184	186	185	186-	XXX	XXXX	XXX	XXXX	XXX-
616	83010214	0	183	185	185	185+	:	XXXX	XXXX	XXXX	XXXX+
617	83010302	182	0	185	184	185-	XXXXX	:	XXXX	XXXXX	XXXX-
618	83010314	183	185	185	184	188+	XXXX	XXX	XXXX	XXXXX	XX+
619	83010402	185	184	0	185	188-	XXX	XXXX	:	XXXX	XX-
620	83010414	0	0	0	187	188+	:	:	:	XXX	XX+
621	83010502	0	187	0	0	188-	:	XX	:	:	XX-
622	83010514	0	186	183	187	187+	:	XXX	XXXXX	XXX	XXX+
623	83010602	0	187	187	188	187-	:	XX	XXX	XXX	XXX-
624	83010614	0	185	186	182	183+	:	XXX	XXX	<XXXXX	<XXXX+
625	83010702	0	183	190	183	183-	:	XXXX	X	XXXXX	<XXXX-
626	83010714	0	366	277	0	183+	:	OOOOOOOOOO>	OOOOOOOOOO>	:	<XXXX+
627	83010802	0	711	217	181	183-	:	OOOOOOOOOO>	OOOOOOOOOO>	<XXXXX	<XXXX-
628	83010814	999	189	182	183+	0	OOOOOOOOOO>	X	XXXXX	XXXX+	:
629	83010902	236	0	185	183-	0	OOOOOOOOOO>	:	XXXX	XXXX-	:
630	83010914	0	0	0	183	185+	:	:	:	XXXXX	XXXX+
631	83011002	185	0	185	184	185-	XXX	:	XXXX	XXXXX	XXXX-
632	83011014	185	0	185	181	184+	XXX	:	XXXX	<XXXXX	XXXX+
633	83011102	192	189	188	186	184-	OO	X	XX	XXXX	XXXX-
634	83011114	0	194	193	189	185+	:	OOO	OO	XX	XXXX+
635	83011202	0	189	195	184	185-	:	X	OOO	XXXXX	XXXX-
636	83011214	184	183	184	234	187+	XXXX	XXXX	XXXX	OOOOOOOOOO>	XXX+
637	83011302	186	185	0	187	187-	XXX	XXX	:	XXX	XXX-
638	83011314	0	0	0	188	187+	:	:	:	XXX	XXX+
639	83011402	0	0	0	188	187-	:	:	:	XXX	XXX-
640	83011414	187	0	186	186	187+	XX	:	XXX	XXXX	XXX+
641	83011502	0	0	186	184	187-	:	:	XXX	XXXXX	XXX-
642	83011514	191	0	184	185	187+	OO	:	XXXX	XXXX	XXX+
643	83011602	187	0	187	186	187-	XX	:	XXX	XXXX	XXX-
644	83011614	186	0	185	187	187+	XXX	:	XXXX	XXX	XXX+
645	83011702	188	185	186	0	187-	XX	XXX	XXX	:	XXX-
646	83011714	185	186	185	189	189+	XXX	XXX	XXXX	XX	XX+
647	83011802	185	184	186	185	189-	XXX	XXXX	XXX	XXXX	XX-
648	83011814	185	185	186	187	189+	XXX	XXX	XXX	XXX	XX+
649	83011902	0	185	186	187	189-	:	XXX	XXX	XXX	XX-
650	83011914	185	185	186	0	187+	XXX	XXX	XXX	:	XXX+
651	83012002	187	188	188	0	187-	XX	XX	XX	:	XXX-
652	83012014	187	188	186	186	187+	XX	XX	XXX	XXXX	XXX+
653	83012102	0	0	186	186	187-	:	:	XXX	XXXX	XXX-
654	83012114	201	0	187	186	186+	OOOOOOO	:	XXX	XXXX	XXX+
655	83012202	186	0	184	184	186-	XXX	:	XXXX	XXXXX	XXX-
656	83012214	183	0	181	184	184+	XXXX	:	<XXXXX	XXXXX	XXXX+
657	83012302	184	182	182	182	184-	XXXX	XXXXX	XXXXX	<XXXXX	XXXX-
658	83012314	182	183	183	0	185+	XXXXX	XXXX	XXXXX	:	XXXX+
659	83012402	184	179	182	183	185-	XXXX	<XXXXX	XXXXX	XXXXX	XXXX-
660	83012414	184	183	184	184	184+	XXXX	XXXX	XXXX	XXXXX	XXXX+

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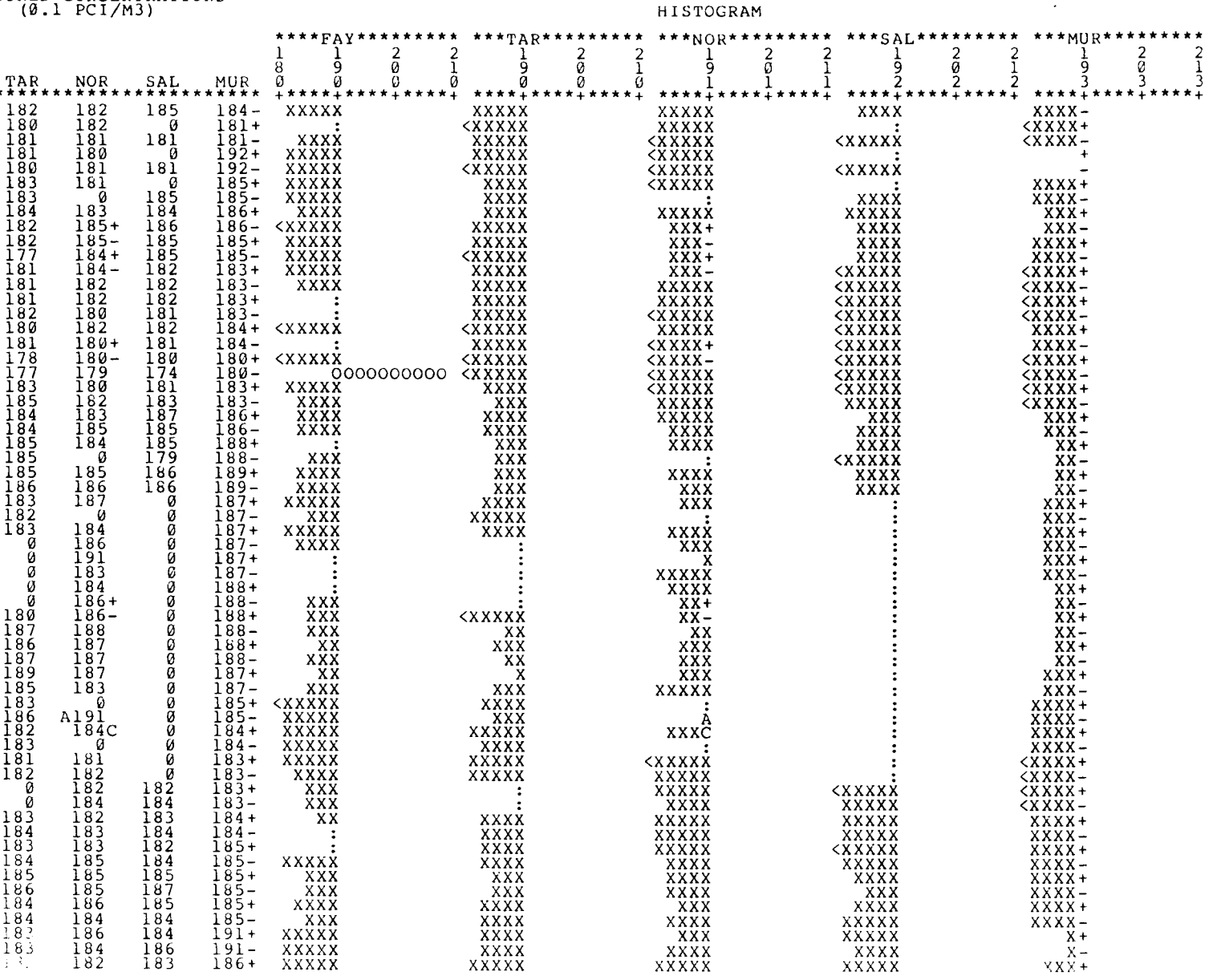
REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR
661	83012502	181	182	182	185	184-
662	83012514	0	180	182	0	181+
663	83012602	183	181	181	181	181-
664	83012614	181	181	180	0	192+
665	83012702	181	180	181	181	192-
666	83012714	182	183	181	0	185+
667	83012802	182	183	0	185	185-
668	83012814	183	184	183	184	186+
669	83012902	180	182	185+	186	186-
670	83012914	182	182	185-	185	185+
671	83013002	181	177	184+	185	185-
672	83013014	181	181	184-	182	183+
673	83013102	183	181	182	182	183-
674	83013114	0	181	182	182	183+
675	83020102	0	182	180	181	183-
676	83020114	175	180	182	182	184+
677	83020202	0	181	180+	181	184-
678	83020214	175	178	180-	180	180+
679	83020302	208	177	179	174	180-
680	83020314	182	183	180	181	183+
681	83020402	183	185	182	183	183-
682	83020414	183	184	183	187	186+
683	83020502	183	184	185	185	186-
684	83020514	0	185	184	185	188+
685	83020602	185	185	0	179	188-
686	83020614	183	185	185	186	189+
687	83020702	184	186	186	186	189-
688	83020714	182	183	187	0	187+
689	83020802	185	182	0	0	187-
690	83020814	182	183	184	0	187+
691	83020902	184	0	186	0	187-
692	83020914	0	0	191	0	187+
693	83021002	0	0	183	0	187-
694	83021014	0	0	184	0	188+
695	83021102	185	0	186+	0	188-
696	83021114	186	180	186-	0	188+
697	83021202	186	187	188	0	188-
698	83021214	188	186	187	0	188+
699	83021302	186	187	187	0	188-
700	83021314	187	189	187	0	187+
701	83021402	186	185	183	0	187-
702	83021414	172	183	0	0	185+
703	83021502	181	186	A191	0	185-
704	83021514	182	182	184C	0	184+
705	83021602	182	183	0	0	184-
706	83021614	181	181	181	0	183+
707	83021702	183	182	182	0	183-
708	83021714	185	0	182	182	183+
709	83021802	186	0	184	184	183-
710	83021814	188	183	182	183	184+
711	83021902	0	184	183	184	184-
712	83021914	0	183	183	182	185+
713	83022002	182	184	185	184	185-
714	83022014	185	185	185	185	185+
715	83022102	185	186	185	187	185-
716	83022114	183	184	186	185	185+
717	83022202	185	184	184	184	185-
718	83022214	182	182	186	184	191+
719	83022302	181	183	184	186	191-
720	83022314	181	[illegible]	182	183	186+

HISTOGRAM



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REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR	HISTOGRAM
721	83022402	0	185	184	184	186-	
722	83022414	183	186	186	186	187+	
723	83022502	185	187	0	187	187-	
724	83022514	184	187	186	188	187+	
725	83022602	0	0	187	186	187-	
726	83022614	189	187	186	190	188+	
727	83022702	0	182	186	0	188-	
728	83022714	186	187	188	187	186+	
729	83022802	185	186	187	187	186-	
730	83022814	183	185	185	186	188+	
731	83030102	184	184	185	0	188-	
732	83030114	185	0	186	0	185+	
733	83030202	182	184	181	184	185-	
734	83030214	184	182	184	185	0	
735	83030302	183	0	0	183	0	
736	83030314	0	0	182	182	184+	
737	83030402	184	184	184	183	184-	
738	83030414	196	0	211A	193	186+	
739	83030502	223	0	A209A	187	186-	
740	83030514	196	187	A191A	185	188+	
741	83030602	184	181	A185	186	188-	
742	83030614	181	182	A181	182	190+	
743	83030702	180	186	180	180	190-	
744	83030714	176	177	177	0	189+	
745	83030802	174	175	175	190	189-	
746	83030814	174	0	A188A	190	190+	
747	83030902	188	285	A190A	189	190-	
748	83030914	197	0	A190A	189	190+	
749	83031002	196	188	A190+	188	190-	
750	83031014	186	0	190-	190	190+	
751	83031102	191	190	A192	189	190-	
752	83031114	193	193	191	190	188+	
753	83031202	195	192	189	188	188-	
754	83031214	187	186	189	187	189+	
755	83031302	186	187	186	187	189-	
756	83031314	0	186	187	187	187+	
757	83031402	0	194	187	187	187-	
758	83031414	0	262	188	191	187+	
759	83031502	206	234	750	244	187-	
760	83031514	290	0	201A	193	188+	
761	83031602	187	197	A189	186	188-	
762	83031614	187	0	188	189	188+	
763	83031702	189	186	0	187	188-	
764	83031714	186	186	186	187	188+	
765	83031802	182	184	189	188	188-	
766	83031814	182	0	188	182	187+	
767	83031902	185	0	187	193	187-	
768	83031914	184	184	185	184	187+	
769	83032002	183	184	185	187	187-	
770	83032014	181	182	184	186	190+	
771	83032102	0	182	182	185	190-	
772	83032114	198	208	208	210	194+	
773	83032202	195	195	193	197	194-	
774	83032214	A194	0	198	199	206+	
775	83032302	0	193	194	196	206-	
776	83032314	189	195	194	192	221+	
777	83032402	188	0	196	193	221-	
778	83032414	192	0	193	0	198+	
779	83032502	0	0	192	193	198-	
780	83032514	191	193	195	194	196+	

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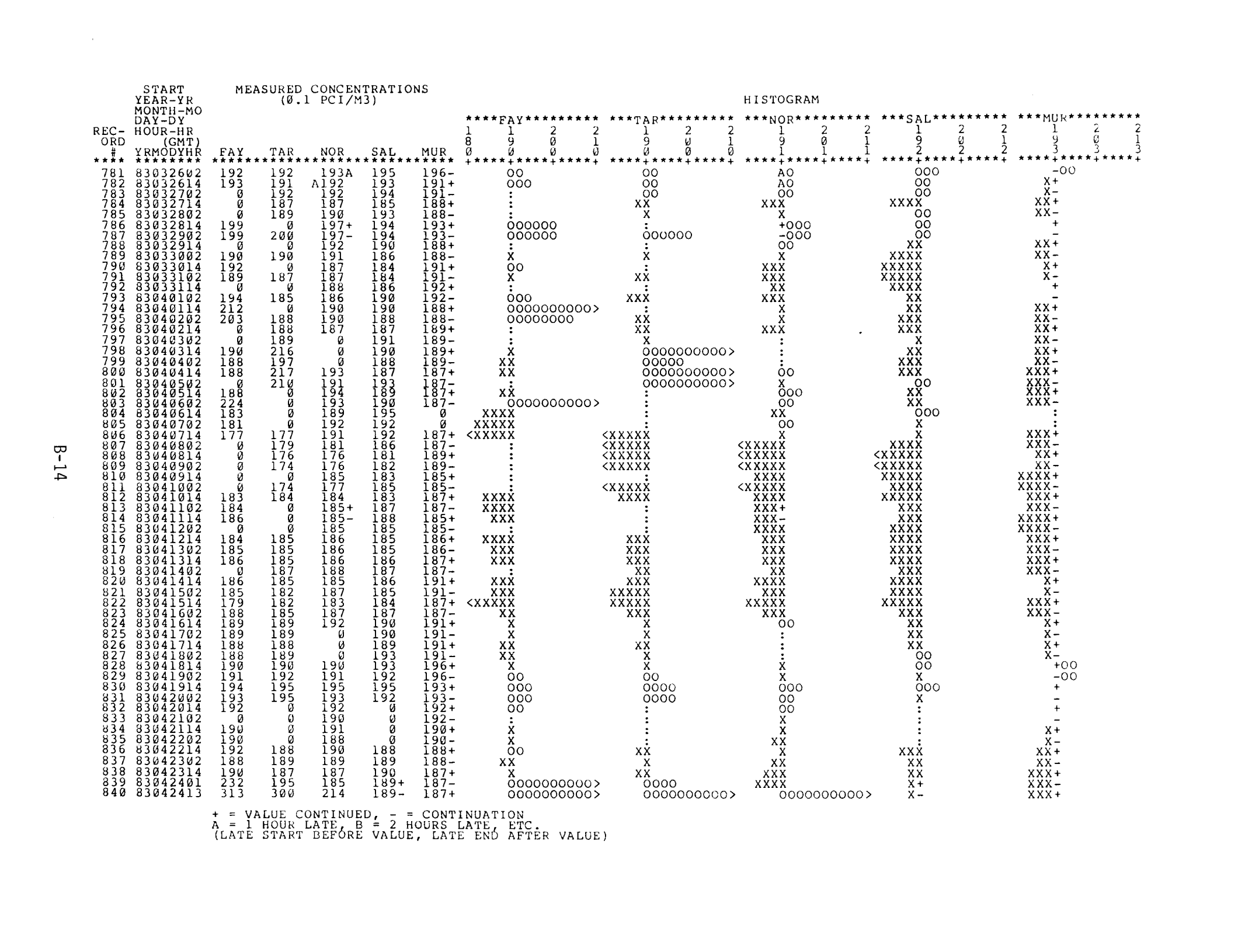

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR
781	83032602	192	192	193A	195	196-
782	83032614	193	191	A192	193	191+
783	83032702	0	192	192	194	191-
784	83032714	0	187	187	185	188+
785	83032802	0	189	190	193	188-
786	83032814	199	0	197+	194	193+
787	83032902	199	200	197-	194	193-
788	83032914	0	0	192	190	188+
789	83033002	190	190	191	186	188-
790	83033014	192	0	187	184	191+
791	83033102	189	187	187	184	191-
792	83033114	0	0	188	186	192+
793	83040102	194	185	186	190	192-
794	83040114	212	0	190	190	188+
795	83040202	203	188	190	188	188-
796	83040214	0	188	187	187	189+
797	83040302	0	189	0	191	189-
798	83040314	190	216	0	190	189+
799	83040402	188	197	0	188	189-
800	83040414	188	217	193	187	187+
801	83040502	0	210	191	193	187-
802	83040514	188	0	194	189	187+
803	83040602	224	0	193	190	187-
804	83040614	183	0	189	195	0
805	83040702	181	0	192	192	0
806	83040714	177	177	191	192	187+
807	83040802	0	179	181	186	187-
808	83040814	0	176	176	181	189+
809	83040902	0	174	176	182	189-
810	83040914	0	0	185	183	185+
811	83041002	0	174	177	185	185-
812	83041014	183	184	184	183	187+
813	83041102	184	0	185+	187	187-
814	83041114	186	0	185-	188	185+
815	83041202	0	0	185	185	185-
816	83041214	184	185	186	185	186+
817	83041302	185	185	186	185	186-
818	83041314	186	185	186	186	187+
819	83041402	0	187	188	187	187-
820	83041414	186	185	185	186	191+
821	83041502	185	182	187	185	191-
822	83041514	179	182	183	184	187+
823	83041602	188	185	187	187	187-
824	83041614	189	189	192	190	191+
825	83041702	189	189	0	190	191-
826	83041714	188	188	0	189	191+
827	83041802	188	189	0	193	191-
828	83041814	190	190	190	193	196+
829	83041902	191	192	191	192	196-
830	83041914	194	195	195	195	193+
831	83042002	193	195	193	192	193-
832	83042014	192	0	192	0	192+
833	83042102	0	0	190	0	192-
834	83042114	190	0	191	0	190+
835	83042202	190	0	188	0	190-
836	83042214	192	188	190	188	188+
837	83042302	188	189	189	189	188-
838	83042314	190	187	187	190	187+
839	83042401	232	195	185	189+	187-
840	83042413	313	300	214	189-	187+

HISTOGRAM

FAY 192 192 193A 195 196-
TAR 192 191 A192 193 191+
NOR 0 192 192 194 191-
SAL 0 187 187 185 188+
MUR 0 189 190 193 188-
FAY 199 0 197+ 194 193+
TAR 199 200 197- 194 193-
NOR 0 0 192 190 188+
SAL 190 190 191 186 188-
MUR 192 0 187 184 191+
FAY 189 187 187 184 191-
TAR 0 0 188 186 192+
NOR 194 185 186 190 192-
SAL 212 0 190 190 188+
MUR 203 188 190 188 188-
FAY 0 188 187 187 189+
TAR 0 189 0 191 189-
NOR 190 216 0 190 189+
SAL 188 197 0 188 189-
MUR 188 217 193 187 187+
FAY 0 210 191 193 187-
TAR 188 0 194 189 187+
NOR 224 0 193 190 187-
SAL 183 0 189 195 0
MUR 181 0 192 192 0
FAY 177 177 191 192 187+
TAR 0 179 181 186 187-
NOR 0 176 176 181 189+
SAL 0 174 176 182 189-
MUR 0 0 185 183 185+
FAY 0 174 177 185 185-
TAR 183 184 184 183 187+
NOR 184 0 185+ 187 187-
SAL 186 0 185- 188 185+
MUR 0 0 185 185 185-
FAY 184 185 186 185 186+
TAR 185 185 186 185 186-
NOR 186 185 186 186 187+
SAL 0 187 188 187 187-
MUR 186 185 185 186 191+
FAY 185 182 187 185 191-
TAR 179 182 183 184 187+
NOR 188 185 187 187 187-
SAL 189 189 192 190 191+
MUR 189 189 0 190 191-
FAY 188 188 0 189 191+
TAR 188 189 0 193 191-
NOR 190 190 190 193 196+
SAL 191 192 191 192 196-
MUR 194 195 195 195 193+
FAY 193 195 193 192 193-
TAR 192 0 192 0 192+
NOR 0 0 190 0 192-
SAL 190 0 191 0 190+
MUR 190 0 188 0 190-
FAY 192 188 190 188 188+
TAR 188 189 189 189 188-
NOR 190 187 187 190 187+
SAL 232 195 185 189+ 187-
MUR 313 300 214 189- 187+

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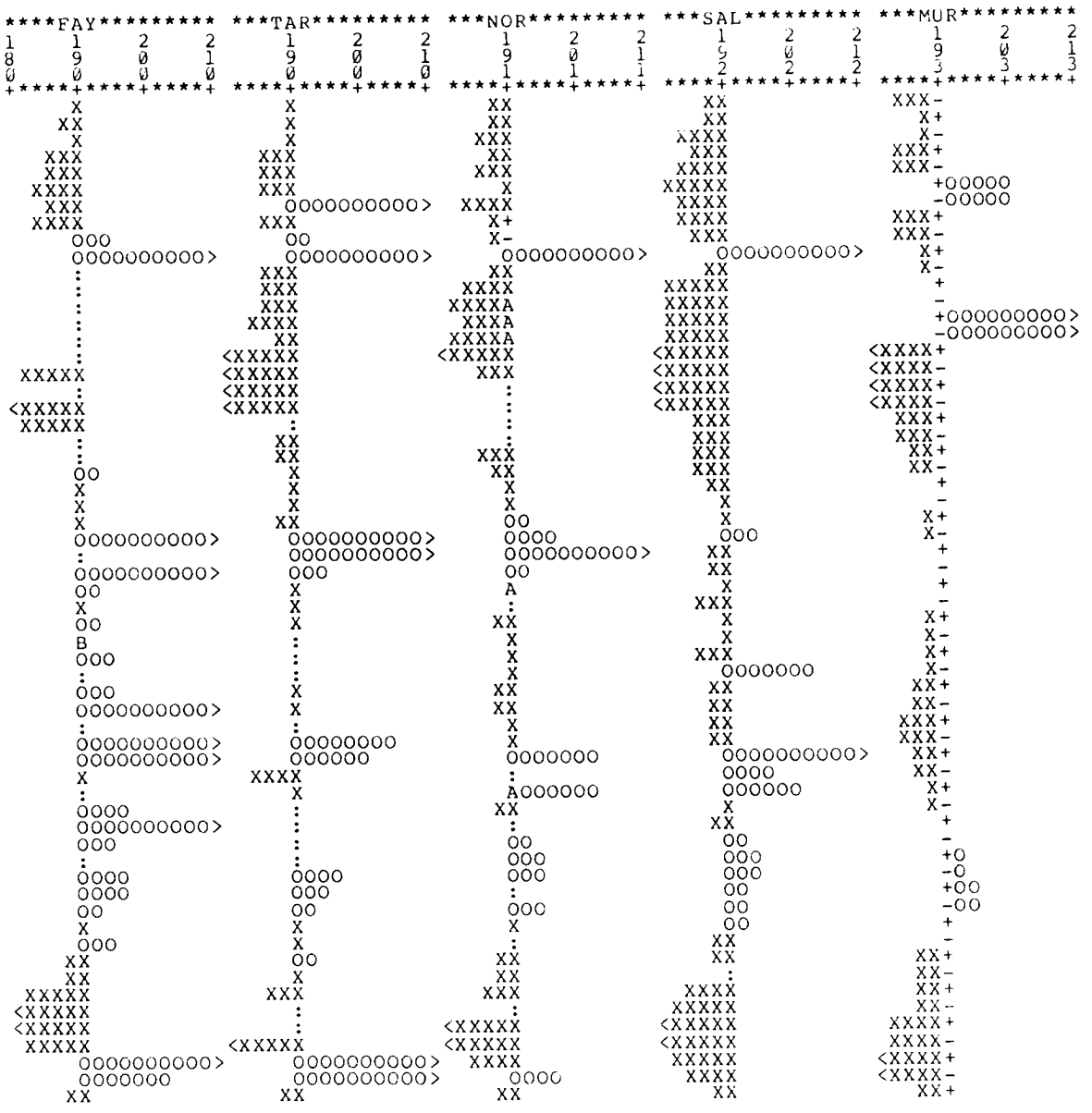
REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR
841	83042501	190	190	188	189	187-
842	83042513	187	189	188	189	191+
843	83042601	189	189	186	186	191-
844	83042613	186	185	188	188	187+
845	83042701	186	186	187	186	187-
846	83042713	184	185	191	184	202+
847	83042801	185	210	185	185	202-
848	83042813	184	186	189+	185	186+
849	83042901	193	191	189-	187	186-
850	83042913	238	221	215	212	191+
851	83043001	0	186	188	190	191-
852	83043013	0	186	185	184	193+
853	83050101	0	186	183A	183	193-
854	83050113	0	184	A184A	183	219+
855	83050201	0	188	A183	184	219-
856	83050213	0	176	178	179	183+
857	83050301	182	180	186	178	183-
858	83050313	0	179	0	182	180+
859	83050401	179	179	0	179	180-
860	83050413	181	0	0	188	187+
861	83050501	0	187	0	187	187-
862	83050513	0	187	187	188	189+
863	83050601	192	190	188	187	189-
864	83050613	190	190	191	189	192+
865	83050701	189	189	190	192	192-
866	83050713	189	188	192	192	191+
867	83050801	209	218	196	196	191-
868	83050813	0	214	214	190	193+
869	83050901	213	194	192	190	193-
870	83050913	192	189	190A	192	192+
871	83051001	190	190	0	188	192-
872	83051013	191	189	188	191	190+
873	83051101	B189	0	190	192	190-
874	83051113	193	0	191	188	190+
875	83051201	0	0	190	203	190-
876	83051213	193	190	189	189	189+
877	83051301	229	190	189	190	189-
878	83051313	0	0	190	189	187+
879	83051401	218	204	190	190	187-
880	83051413	223	200	202	234	188+
881	83051501	189	183	0	198	188-
882	83051513	0	189	A202	202	190+
883	83051601	196	0	189	192	190-
884	83051613	295	0	0	190	193+
885	83051701	194	0	193	194	193-
886	83051713	0	0	195	195	195+
887	83051801	195	195	195	196	195-
888	83051813	196	193	0	194	196+
889	83051901	192	192	194	194	196-
890	83051913	189	190	190	193	193+
891	83052001	193	190	0	189	193-
892	83052013	187	191	189	189	189+
893	83052101	187	189	189	0	189-
894	83052113	182	185	187	185	189+
895	83052201	179	0	0	184	189-
896	83052213	179	0	180	182	185+
897	83052301	181	178	177	181	185-
898	83052313	297	225	185	184	183+
899	83052401	202	212	197	185	183-
900	83052413	187	188	188	190	189+

HISTOGRAM



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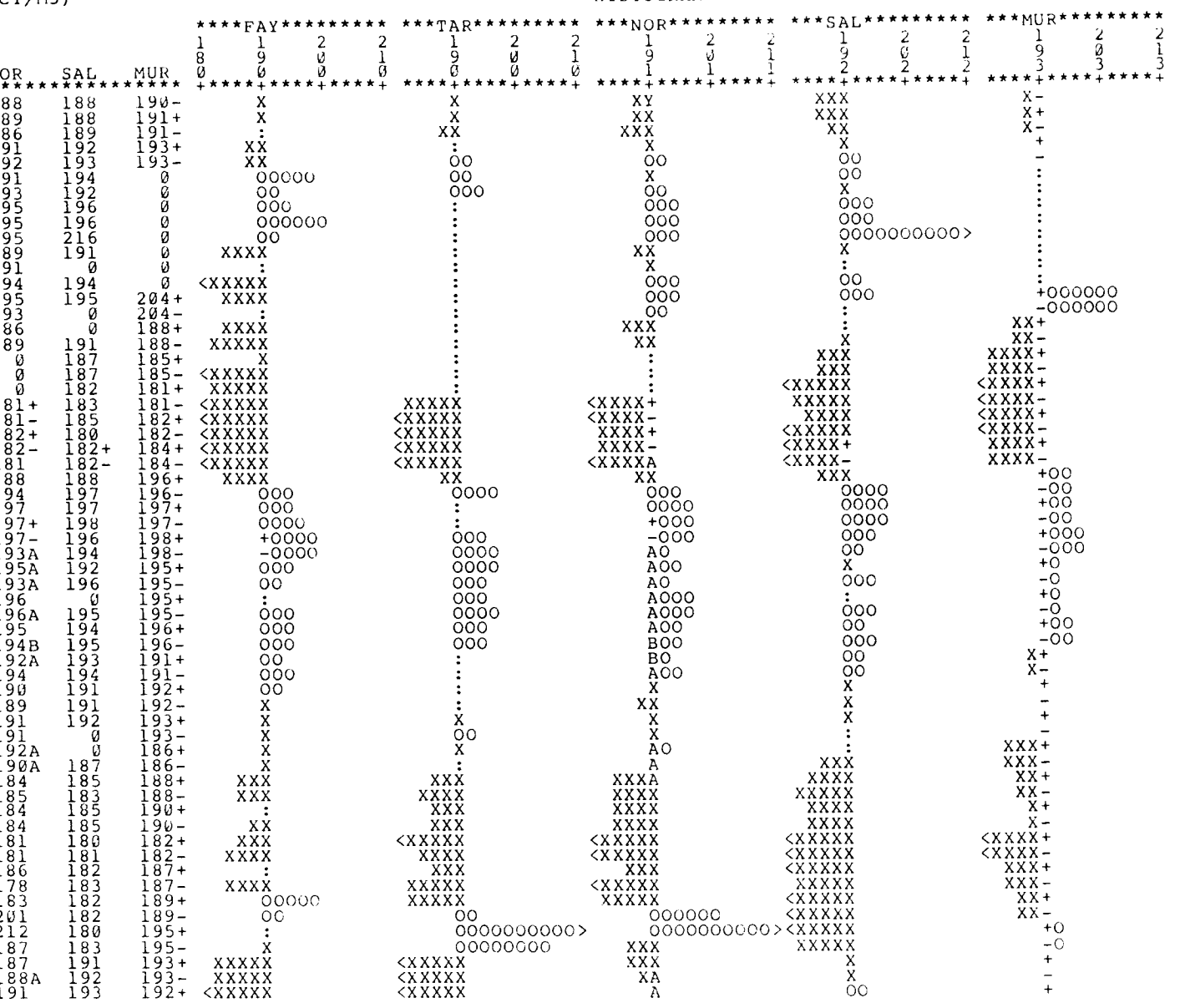
REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR	HISTOGRAM
							****FAY********* ***TAR********* ***NOR********* ***SAL********* ***MUR*********
							1 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2
							8 9 0 1 9 0 1 9 0 1 9 0 1 9 0 1
							0 0 0 0 0 0 0 1 1 1 2 2 2 3 3 3
901	83052501	189	191	190	192	189-	X OO X X X XX-
902	83052513	190	190	190	189	189+	X X X XX XX+
903	83052601	192	189	189	189	189-	OO X XX XX XX-
904	83052613	206	188	189	189	190+	OOOOOOOOO XX XX XX X+
905	83052701	204	195	189	190	190-	OOOOOOOO OOOO XX XX X-
906	83052713	191	190	191	190	192+	OO X X XX +
907	83052801	191	190	191	191	192-	OO X X X -
908	83052813	190	189	189	191	192+	X X XX X +
909	83052901	0	190	190A	191	192-	: X A X -
910	83052913	192	208	A195	193	192+	OO OOOOOOOOOO AOO OO +
911	83053001	209	211	208	196	192-	OOOOOOOOOO> OOOOOOOOOO> OOOOOOOOOO OOO -
912	83053013	185	182	186	0	204+	XXX XXXXX XXX : +OOOOOO
913	83053101	185	183	181	184	204-	XXX XXXX <XXXXX XXXXX -OOOOOO
914	83053113	188	185	184	189	193+	XX XXX XXXX XX +
915	83060101	193	191	187	192	193-	OOO OO XXX X -
916	83060113	190	191	190A	190	192+	X OO A XX +
917	83060201	191	192	A191	192	192-	OO OO A X -
918	83060213	193	0	193	193	193+	OOO : OO OO +
919	83060301	192	0	192	192	193-	OO : OO X -
920	83060313	192	0	190A	192	0	OO : A X :-
921	83060401	190	0	A188	190	0	X : XA XX :-
922	83060413	0	0	182	185	187+	: : XXXXX XXXX XXX+
923	83060501	0	0	177	178	187-	: : <XXXXX <XXXXX XXX-
924	83060513	178	0	184	0	190+	<XXXXX : XXXX : X+
925	83060601	0	0	178	183	190-	: : <XXXXX XXXXX X-
926	83060613	176	0	177	182	179+	<XXXXX : <XXXXX <XXXXX <XXXX+
927	83060701	173	0	177	175	179-	<XXXXX : <XXXXX <XXXXX <XXXX-
928	83060713	176	0	179	186	189+	<XXXXX : <XXXXX XXXX XX+
929	83060801	180	0	185	186	189-	<XXXXX : XXXX XXXX XX-
930	83060813	185	0	186	186	191+	XXX : XXX XXXX X+
931	83060901	186	0	189	187	191-	XXX : XX XXX X-
932	83060913	187	0	186	192	193+	XX : XXX X +
933	83061001	191	0	191	194	193-	OO : X OO -
934	83061013	190	0	193	193	193+	X : OO OO +
935	83061101	190	0	192	192	193-	X : OO X -
936	83061113	190	0	192	191	190+	X : OO X X+
937	83061201	188	0	189	192	190-	XX : XX X X-
938	83061213	186	0	190	187	187+	XXX : X XXX XXX+
939	83061301	185	0	189	187	187-	XXX : XX XXX XXX-
940	83061313	0	0	187	187	184+	: : XXX XXX XXXX+
941	83061401	188	0	186	187	184-	XX : XXX XXX XXXX-
942	83061413	186	0	187	185	185+	XXX : XXX XXXX XXXX+
943	83061501	186	0	187	188	185-	XXX : XXX XXX XXXX-
944	83061513	0	0	189	187	188+	: : XX XXX XX+
945	83061601	0	0	188	188	188-	: : XX XXX XX-
946	83061613	419	0	187	186	187+	OOOOOOOOOO> : XXX XXXX XXX+
947	83061701	188	0	186	187	187-	XX : XXX XXX XXX-
948	83061713	185	0	188	188	187+	XXX : XX XXX XXX+
949	83061801	186	0	187	189	187-	XXX : XXX XX XXX-
950	83061813	186	0	187	187	187+	XXX : XXX XXX XXX+
951	83061901	0	0	188	187	187-	: : XX XXX XXX-
952	83061913	185	0	188	188	186+	XXX : XX XXX XXX+
953	83062001	187	0	0	190	186-	XX : : XX XXX-
954	83062013	0	0	0	201	190+	: : : OOOOOO X+
955	83062101	189	0	188	189	190-	X : XX XX X-
956	83062113	199	0	188	188	191+	OOOOOO : XX XXX X+
957	83062201	195	0	187	186	191-	OOOO : XXX XXXX X-
958	83062213	189	0	190	191	191+	X : X X X+
959	83062301	189	0	188	190	191-	X : XX XX X-
960	83062313	189	189	190	189	190+	X X X XX X+

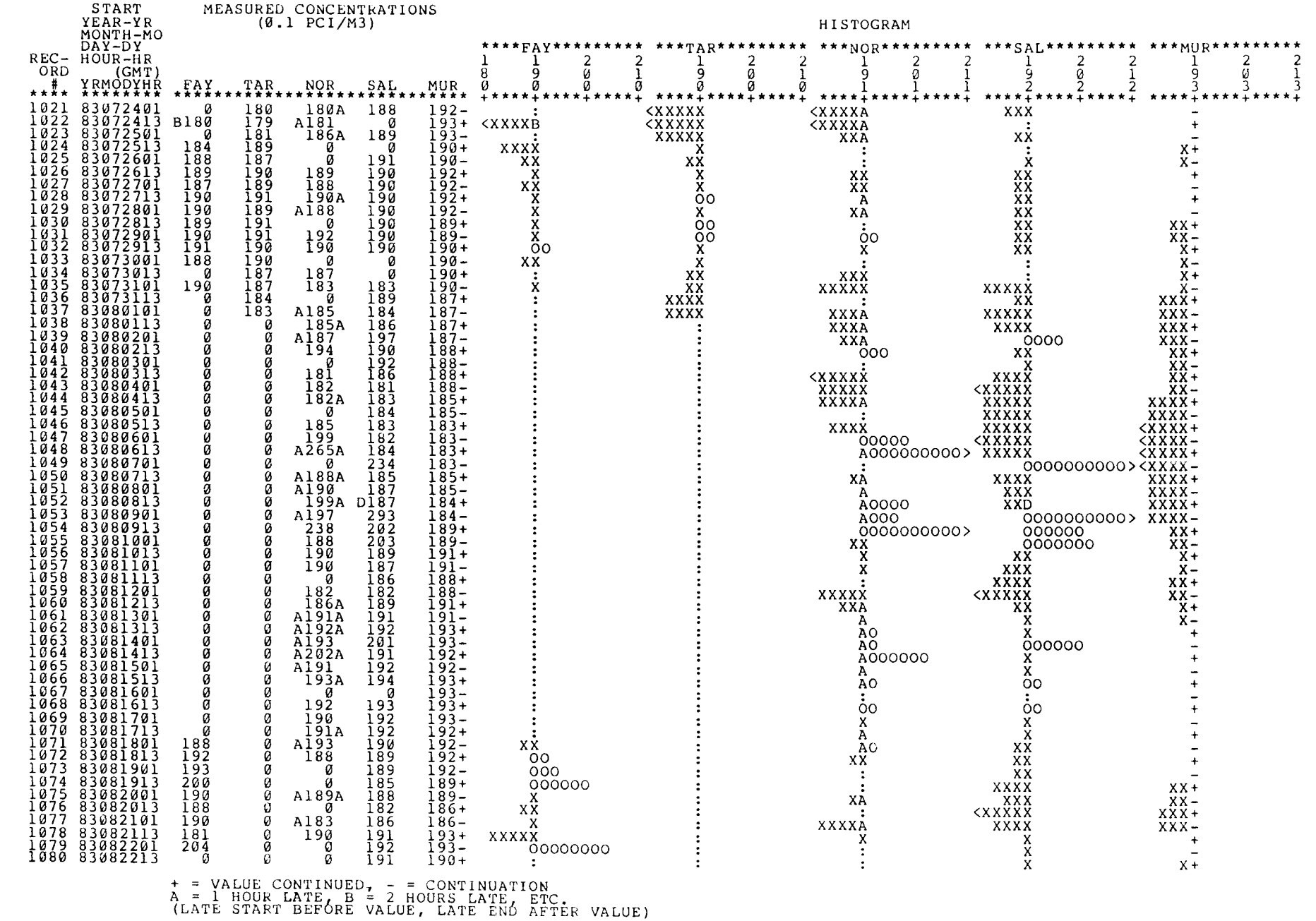
+ = VALUE CONTINUED, - = CONTINUATION
A = 1 HOUR LATE, B = 2 HOURS LATE, ETC.
(LATE START BEFORE VALUE, LATE END AFTER VALUE)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR
961	83062401	189	190	188	188	190-
962	83062413	189	189	189	188	191+
963	83062501	0	187	186	189	191-
964	83062513	187	0	191	192	193+
965	83062601	188	192	192	193	193-
966	83062613	198	191	191	194	0
967	83062701	192	193	193	192	0
968	83062713	194	0	195	196	0
969	83062801	200	0	195	196	0
970	83062813	191	0	195	216	0
971	83062901	183	0	189	191	0
972	83062913	0	0	191	0	0
973	83063001	178	0	194	194	0
974	83063013	184	0	195	195	204+
975	83070101	0	0	193	0	204-
976	83070113	184	0	186	0	188+
977	83070201	182	0	189	191	188-
978	83070213	189	0	0	187	185+
979	83070301	179	0	0	187	185-
980	83070313	182	0	0	182	181+
981	83070401	179	181	181+	183	181-
982	83070413	179	180	181-	185	182+
983	83070501	180	178	182+	180	182-
984	83070513	177	178	182-	182+	184+
985	83070601	178	178	A181	182-	184-
986	83070613	184	187	188	188	196+
987	83070701	193	195	194	197	196-
988	83070713	194	0	197	197	197+
989	83070801	196	0	197+	198	197-
990	83070813	197+	194	197-	196	198+
991	83070901	197-	195	193A	194	198-
992	83070913	194	195	A195A	192	195+
993	83071001	192	194	A193A	196	195-
994	83071013	0	194	A196	0	195+
995	83071101	193	195	196A	195	195-
996	83071113	194	194	A195	194	196+
997	83071201	193	193	194B	195	196-
998	83071213	192	0	B192A	193	191+
999	83071301	193	0	A194	194	191-
1000	83071313	191	0	190	191	192+
1001	83071401	190	0	189	191	192-
1002	83071413	190	190	191	192	193+
1003	83071501	189	191	191	0	193-
1004	83071513	189	189	192A	0	186+
1005	83071601	190	0	A190A	187	186-
1006	83071613	185	185	A184	185	188+
1007	83071701	185	184	185	183	188-
1008	83071713	0	186	184	185	190+
1009	83071801	187	185	184	185	190-
1010	83071813	185	180	181	180	182+
1011	83071901	184	183	181	181	182-
1012	83071913	0	186	186	182	187+
1013	83072001	184	182	178	183	187-
1014	83072013	198	182	183	182	189+
1015	83072101	191	192	201	182	189-
1016	83072113	0	288	212	180	195+
1017	83072201	190	204	187	183	195-
1018	83072213	181	179	187	191	193+
1019	83072301	181	177	188A	192	193-
1020	83072313	180	180	A191	193	192+

HISTOGRAM



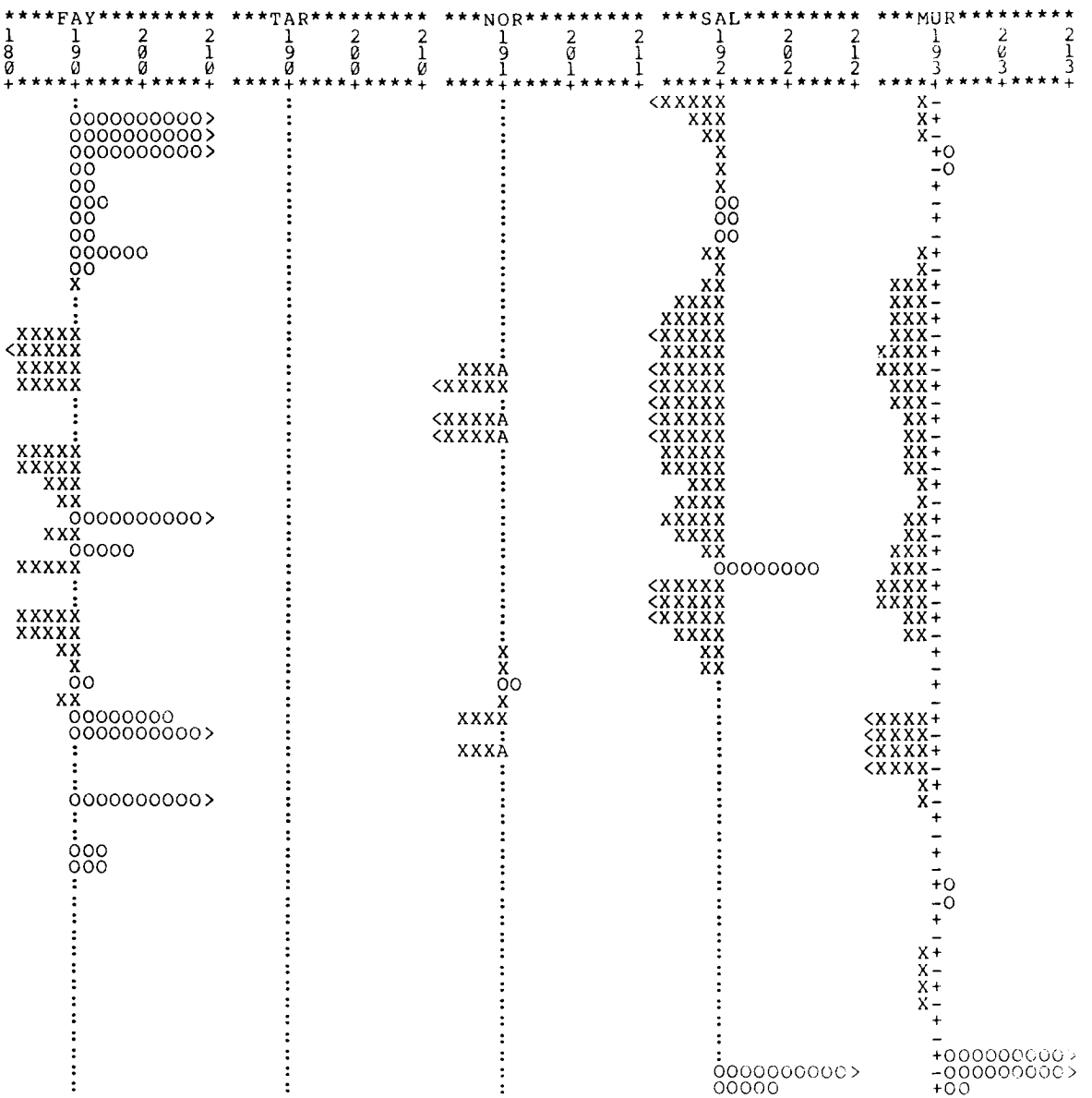
\+ = VALUE CONTINUED, - = CONTINUATION
A = 1 HOUR LATE, B = 2 HOURS LATE, ETC.
(LATE START BEFORE VALUE, LATE END AFTER VALUE)



+ = VALUE CONTINUED, - = CONTINUATION
A = 1 HOUR LATE, B = 2 HOURS LATE, ETC.
(LATE START BEFORE VALUE, LATE END AFTER VALUE)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR
1081	83082301	0	0	0	182	190-
1082	83082313	232	0	0	187	191+
1083	83082401	228	0	0	190	191-
1084	83082413	260	0	0	192	194+
1085	83082501	192	0	0	191	194-
1086	83082513	192	0	0	192	193+
1087	83082601	193	0	0	193	193-
1088	83082613	192	0	0	193	192+
1089	83082701	192	0	0	193	192-
1090	83082713	199	0	0	190	190+
1091	83082801	192	0	0	191	190-
1092	83082813	190	0	0	190	186+
1093	83082901	0	0	0	185	186-
1094	83082913	0	0	0	184	186+
1095	83083001	181	0	0	182	186-
1096	83083013	180	0	0	184	184+
1097	83083101	182	0	A184	181	184-
1098	83083113	181	0	178	182	186+
1099	83090101	0	0	0	181	186-
1100	83090113	0	0	181A	182	188+
1101	83090201	0	0	A180	180	188-
1102	83090213	181	0	0	184	189+
1103	83090301	181	0	0	184	189-
1104	83090313	185	0	0	188	190+
1105	83090401	188	0	0	185	190-
1106	83090413	224	0	0	184	189+
1107	83090501	186	0	0	185	189-
1108	83090513	197	0	0	190	186+
1109	83090601	181	0	0	206	186-
1110	83090613	0	0	0	179	185+
1111	83090701	0	0	0	180	185-
1112	83090713	181	0	0	181	188+
1113	83090801	182	0	0	186	188-
1114	83090813	187	0	191	190	192+
1115	83090901	189	0	191	190	192-
1116	83090913	191	0	192	0	193+
1117	83091001	188	0	191	0	193-
1118	83091013	204	0	185	0	183+
1119	83091101	233	0	0	0	183-
1120	83091113	0	0	A184A	0	180+
1121	83091201	0	0	0	0	180-
1122	83091213	0	0	0	0	190+
1123	83091301	318	0	0	0	190-
1124	83091313	0	0	0	0	193+
1125	83091401	0	0	0	0	193-
1126	83091413	193	0	0	0	193+
1127	83091501	193	0	0	0	193-
1128	83091513	0	0	0	0	194+
1129	83091601	0	0	0	0	194-
1130	83091613	0	0	0	0	193+
1131	83091701	0	0	0	0	193-
1132	83091713	0	0	0	0	190+
1133	83091801	0	0	0	0	190-
1134	83091813	0	0	0	0	191+
1135	83091901	0	0	0	0	191-
1136	83091913	0	0	0	0	193+
1137	83092001	0	0	0	0	193-
1138	83092013	0	0	0	0	279+
1139	83092101	0	0	0	212	279-
1140	83092113	0	0	0	200	197+

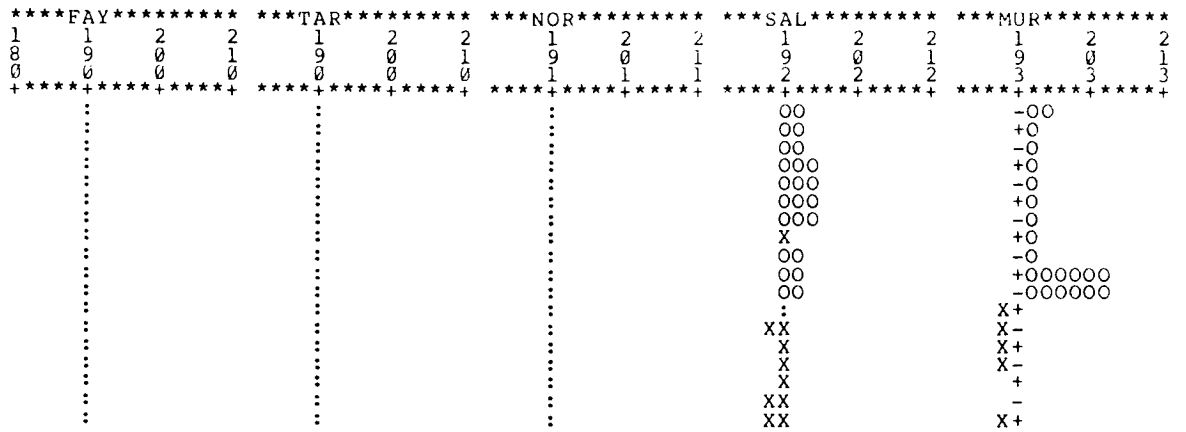
HISTOGRAM



+ = VALUE CONTINUED, - = CONTINUATION
A = 1 HOUR LATE, B = 2 HOURS LATE, ETC.
(LATE START BEFORE VALUE, LATE END AFTER VALUE)

REC-ORD #	START YEAR-YR MONTH-MO DAY-DY HOUR-HR (GMT) YRMODYHR	MEASURED CONCENTRATIONS (0.1 PCI/M3) FAY	TAR	NOR	SAL	MUR
1141	83092201	0	0	0	194	197-
1142	83092213	0	0	0	194	194+
1143	83092301	0	0	0	194	194-
1144	83092313	0	0	0	195	194+
1145	83092401	0	0	0	195	194-
1146	83092413	0	0	0	195	195+
1147	83092501	0	0	0	196	195-
1148	83092513	0	0	0	192	195+
1149	83092601	0	0	0	193	195-
1150	83092613	0	0	0	194	204+
1151	83092701	0	0	0	193	204-
1152	83092713	0	0	0	0	190+
1153	83092801	0	0	0	190	190-
1154	83092813	0	0	0	192	191+
1155	83092901	0	0	0	191	191-
1156	83092913	0	0	0	191	192+
1157	83093001	0	0	0	190	192-
1158	83093013	0	0	0	190	191+

HISTOGRAM



APPENDIX C

ACURATE DATA TAPE

TAPE REQUESTS (Refer to ACURATE Data Tape)

E.I. DuPont & Co.
Savannah River Laboratory
Bldg. 733A-1011
Aiken, SC 29801
Attn: J.F. Schubert

TAPE CHARACTERISTICS

9 TRACK, 6250 BPI, NO LABEL, EBCDIC
RECORD FORMAT = FB
BLOCK SIZE = 8000

FILE 1; Source Emission

RECORD LENGTH = 80
NUMBER OF RECORDS = 1158

RECORD	[SPACE]	YEAR	MONTH	DAY	HOUR	EMISSION RATES
(#)					(GMT)	(CI/HR)
I4	IX	I2	I2	I2	I2	12I4

FILE 2; Measured Concentrations

RECORD LENGTH = 80
NUMBER OF RECORDS = 1158

RECORD	[SPACE]	YEAR	MONTH	DAY	HOUR	MEASURED CONCENTRATIONS	[MSG DATA]
(#)					(GMT)	(PCI/M^3)	(0)
I4	IX	I2	I2	I2	I2	5(1X,A1,I3,A1)	

FILES 3-21; Savannah River Plant (SRP), Surface (SFC), and Upper Air (UA) Station Meteorology (1 file per month)

RECORD LENGTH = 40

RECORD FORMAT

DATE/TIME [3-HOUR INTERVALS]	YEAR	MONTH	DAY	HOUR (GMT)	NUMBER OF SRP & SFC RECS	NUMBER OF UA RECS
	I2	I2	I2	I2	I4	I4

SRP	STA (3-Ltr)	LAT (100°N)	LON (100°W)	ELEV (M)	WIND DIR (DEG)	WIND SPD (0.1M/S)	WIND HORIZ STD DEV (0.1DEG)	WIND VERT STD DEV (0.1DEG)	[MSG DATA] (-99)
	A3	I5	I5	I5	I4	I4	I4	I4	

SFC	STA (3-LTR)	LAT (100°N)	LON (100°W)	ELEV (M)	PRESS (MB)	TEMP (0.1°C)	DEW-POINT (0.1°C)	WIND DIR (DEG)	WIND SPD (0.1M/S)	[MSG DATA] (-99)
	A3	I5	I5	I5	I4	I5	I5	I4	I4	

UA ID	STA (3-LTR)	LAT (100°N)	LON (100°W)	ELEV (M)	NBR OF LVLS
	A3	I5	I5	I5	I3

UA LEVEL	PRESS (MB)	HGT (M)	TEMP (0.1°C)	DEW-POINT (0.1°C)	WIND DIR (DEG)	WIND SPD (0.1M/S)	[MSG DATA] (-99)
	I4	I5	I5	I5	I4	I4	

RECORD ORGANIZATION

DATE/TIME1
SRP
SFC 1
SFC 2
:
UA ID 1
UA LEVEL 1
UA LEVEL 2
:
UA ID 2
UA LEVEL 1
UA LEVEL 2
:
DATE/TIME 2
:

March 1985

Changes to:

NOAA Technical Memorandum ERL ARL-130

ATLANTIC COAST UNIQUE REGIONAL ATMOSPHERIC TRACER EXPERIMENT

(ACURATE)

J.L. Heffter
J.F. Schubert
G.A. Mead

Air Resources Laboratory
Rockville, Maryland
October 1984

4.3 Upper-Air Meteorological Data

Four times-daily (00, 06, 12, and 18 GMT) upper-air data were taken from reports at NWS upper-air stations (see Fig.5) although most of the stations report only at 00 and 12 GMT. The data consist of pressure, height, temperature, dewpoint, wind direction, and wind speed at the mandatory and significant reporting levels.

FILE 3 through FILE 21 on the ACURATE data tape are the archived surface meteorology data (see Appendix C). Each file contains one month of data. The date/time records are at 3-hour intervals (00, 03, 06 GMT, etc.). It should be noted that the first record after each date/time sequence is from the SRP giving local wind data at 62 m in height. Missing data within a record are coded -99.

FILE 22 through FILE 40 are the archived upper-air meteorological data (see Appendix C). Each file contains one month of data. The date/time records are at 6-hour intervals (00, 06, 12, and 18 GMT). Since most of the stations report only at 00 and 12 GMT, the 06 and 18 GMT data/time records often have the number of reports and number of records equal to 0.

TAPE REQUESTS (Refer to ACURATE Data Tape)

E.I. DuPont & Co.
Savannah River Laboratory
Bldg. 733A-1011
Aiken, SC 29801
Attn: J.F. Schubert

TAPE CHARACTERISTICS

9 TRACK, 6250 BPI, NO LABEL, EBCDIC
RECORD FORMAT = FB
BLOCK SIZE = 8000 (FILES 1-21)
= 2500 (FILES 22-40)

FILE 1; Source Emission

RECORD LENGTH = 80
NUMBER OF RECORDS = 1158

RECORD	[SPACE]	YEAR	MONTH	DAY	HOUR	EMISSION RATES
(#)					(GMT)	(CI/HR)
I4	IX	I2	I2	I2	I2	I2I4

FILE 2; Measured Concentrations

RECORD LENGTH = 80
NUMBER OF RECORDS = 1158

RECORD	[SPACE]	YEAR	MONTH	DAY	HOUR	MEASURED CONCENTRATIONS	[MSG DATA]
(#)					(GMT)	(PCI/M^3)	(0)
I4	IX	I2	I2	I2	I2	5(IX,A1,I3,A1)	

FILES 3-21; Savannah River Plant (SRP) and Surface (SFC) Station Meteorology (1 file per month)

RECORD LENGTH = 40

RECORD FORMAT

DATE/TIME [3-HOUR INTERVALS]	YEAR	MONTH	DAY	HOUR (GMT)	NUMBER OF SRP & SFC RECS
	I2	I2	I2	I2	I4

SRP	STA	LAT	LON	ELEV	WIND DIR	WIND SPD	WIND HORIZ STD DEV	WIND VERT STD DEV	[MSG DATA]
	(3-LTR)	(100°N)	(100°W)	(M)	(DEG)	(0.1M/S)	(0.1DEG)	(0.1DEG)	(-99)
	A3	I5	I5	I5	I4	I4	I4	I4	

SFC	STA	LAT	LON	ELEV	PRESS	TEMP	DEW-POINT	WIND DIR	WIND SPD	[MSG DATA]
	(3-LTR)	(100°N)	(100°W)	(M)	(MB)	(0.1°C)	(0.1°C)	(DEG)	(0.1M/S)	(-99)
	A3	I5	I5	I5	I4	I5	I5	I4	I4	

RECORD ORGANIZATION

DATE/TIME1
SRP
SFC 1
SFC 2
:
DATE/TIME 2
SRP
SFC 1
SFC 2
:

FILES 22-40 Upper Air Meteorology (1 file per month)

RECORD LENGTH = 25

RECORD FORMAT

DATE/TIME [6-HOUR INTERVALS]	YEAR	MONTH	DAY	HOUR (GMT)	NUMBER OF REPORTS	NUMBER OF RECS	CODE	
	I2	I2	I2	I2	I4	I5	I2	1=WINDS 2=TEMPS

ID	BLOCK STATION	LAT (100°N)	LON (100°W)	ELEV (M)	NUMBER OF LEVELS
	I5	I5	I6	I4	I3

WIND	HT (M)	DIR (DEG)	SPD (0.1M/S)
	I4	I4	I5

TEMP	HT (M)	PRESS (MB)	TEMP (0.1°K)	DEWPT (0.1°K)
	I4	I4	I5	I5

RECORD ORGANIZATION

```
DATE/TIME1 (CODE=1,WINDS)
ID1
WIND1
WIND2
:
ID2
WIND1
WIND2
:
DATE/TIME1 (CODE=2,TEMPS)
ID1
TEMP1
TEMP2
:
ID2
TEMP1
TEMP2
:
DATE/TIME2 (CODE=1,WINDS)
:
```