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LITIGATION TECHNICAL SUPPORT AND SERVICES

Rocky Mountain Arsenal

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Air Remedial Investigation
Final Report
Volume II
(Version 3.1)

August 1988
Contract Number DAAK11-84-D-0016
Task Number 18 (Air Monitoring)

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PREPARED BY

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

PREPARED FOR

U.S. ARMY PROGRAM MANAGER'S OFFICE FOR ROCKY MOUNTAIN ARSENAL

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APPENDIX A
DOCUMENTATION OF DEVIATIONS FROM THE TECHNICAL PLAN METHODS

Appendix A. Documentation of Deviations from the Technical Plan Methods.

Activity/Procedure	Technical Plan Approach	Actual Field Approach	Reason for Deviation
Sampling stations AQ4 and AQ10	Electrical power supplied by propane generators.	Station removed from service.	Unreliability of propane generators at stations AQ4 and AQ10. No nearby power sources.
Sampling station AQ9x	Sampling station AQ9x was not anticipated in the Technical Plan.	AQ9x is a collocated sampling station located next to AQ9.	There was a need for collocated TSP & PM-10 sampling data for QA/QC purposes.
Filter preparation	TSP & PM-10 filters were to be weighed three times to the nearest milligram.	TSP & PM-10 filters were weighed two times to the nearest milligram.	The accuracy of the weighing balance was better than anticipated and there was no need to weigh the filters three times. Spot checks proved this true.
Weighing balance location	The weighing balance was to be located at the ESE Denver laboratory.	The weighing balance was at the ESE RMA field sampling trailer.	More convenient and cost efficient filter weighing. Special accomodations were made to assure the accuracy of weighing.
Asbestos sampler calibration	Flow rates were to be checked at the beginning, middle, and end of the sampling period.	Flow rates were checked at the beginning and the end of the sampling period.	ESE eliminated the middle flow check so the sample flow would not be interrupted.
Volatile organic compounds sampling equipment	A shelter was to be used to protect the sampling equipment from bad weather conditions.	ESE did not use the shelter during sampling.	There was insufficient power to operate the blower fan in the housing.
Volatile organic compound sampling flow rate and volume	The flow rate through the traps was to be approximately 20 milliliters per minute (ml/min) with a total sample volume of 9 to 10 liters (L).	The flow rate through the traps was approximately 40 ml/min with a total sample volume of approximately 5L.	According to EPA Method TO-1 that the ESE Gainesville laboratory certified for, total sample volume could not exceed 5L.
Metals sampling stations	Metals samples were to be collected at AQ1, AQ3, AQ4, AQ5, and four mobile stations.	Metals samples were collected at AQ1, AQ3, AQ5, and five mobile stations.	Unreliability of propane generators at station AQ4.
Metals sample collection and handling	TSP filters were to be analyzed for metals.	Separate filters from TSP filters were used for metals analyses.	Metal samples were taken on a different frequency than TSP samples so the metals filters need not be weighed.

APPENDIX B
AIR QUALITY DATA

APPENDIX B.1
TSP DATA

TSP DATA 29 JUL 1988

DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
06-13-86	A01	A01TSP1	3	7	1482.3	2897.2	1414.9	38.50	2.8974	2.9902	.0928	1555.4345	59.6618	629.920	288.730	
06-19-86	A01	A01TSP2	576	16	2897.2	4333.4	1436.2	37.00	2.9475	3.0398	.0923	1508.7848	61.1751	627.634	296.320	
06-25-86	A01	A01TSP3	576	31	4333.4	5768.3	1434.9	36.70	2.9093	3.0117	.1024	1512.707	67.6932	627.338	288.945	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 62.7488																
07-01-86	A01	A01TSP4	576	41	5768.3	7202.9	1434.6	37.29	2.9087	3.0017	.093	1526.2039	60.9355	630.089	293.125	
07-07-86	A01	A01TSP5	576	37	7202.9	8637.8	1434.9	37.87	2.9169	2.9788	.0619	1546.0442	40.0377	631.266	293.765	
07-13-86	A01	A01TSP6	576	52	8637.8	10073.4	1435.6	37.78	2.9048	3.0001	.0953	1537.7009	61.9756	628.320	295.160	
07-19-86	A01	A01TSP7	576	62	10073.4	11508.6	1435.2	37.31	2.9211	2.9650	.0439	1536.6718	28.5682	634.704	291.060	
07-25-86	A01	A01TSP8	576	72	11508.6	12943.5	1434.9	39.77	2.9206	2.9731	.0525	1611.6826	32.5747	631.190	293.280	
07-31-86	A01	A01TSP9	576	75	12943.5	14379.9	1436.4	37.83	2.9209	3.0424	.1215	1547.8071	78.4982	630.301	292.630	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 47.1915																
08-06-86	A01	A01TSP10	576	93	14379.9	15816.6	1436.7	38.40	2.9256	3.0405	.1149	1558.7882	73.7111	628.396	295.635	
08-12-86	A01	A01TSP11	576	112	15816.6	17252.4	1435.8	36.19	2.8906	2.9873	.0967	1487.1724	65.0227	628.100	293.570	
08-18-86	A01	A01TSP12	576	118	17252.4	18690.0	1437.6	42.27	2.8810	3.0148	.1338	1687.7553	79.2769	631.910	298.645	
08-24-86	A01	A01TSP13	576	122	18690.0	20126.2	1436.2	42.08	2.9325	2.9761	.0436	1686.8543	25.8469	628.472	294.050	
08-30-86	A01	A01TSP14	576	133	20126.2	21562.6	1436.4	42.63	2.9101	3.0214	.1113	1709.6853	65.0997	628.320	292.390	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 57.6961																
09-05-86	A01	A01TSP15	576	143	21562.6	22996.9	1434.3	42.19	2.9167	3.0347	.118	1696.3004	69.5632	630.000	291.515	
09-11-86	A01	A01TSP16	576	155	22996.9	24433.5	1436.6	46.08	2.9094	3.0023	.0929	1840.6555	50.4712	628.520	287.590	
09-17-86	A01	A01TSP17	576	162	24433.5	25869.5	1436	43.90	2.9271	3.0411	.114	1753.858	64.9996	626.491	290.980	
09-23-86	A01	A01TSP18	576	171	25869.5	27306.1	1436.6	44.70	2.9005	2.9988	.0983	1784.8441	55.0748	625.433	289.350	
09-29-86	A01	A01TSP19	576	179	27306.1	28742.0	1435.9	44.00	2.9074	2.9633	.0559	1774.2992	31.5054	627.329	284.810	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 52.4245																
10-05-86	A01	A01TSP20	576	173	28742.0	30178.0	1436	44.40	2.9237	2.9712	.0475	1800.9307	26.3753	632.041	282.590	
10-11-86	A01	A01TSP21	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
10-17-86	A01	A01TSP22	576	191	31611.4	33047.3	1435.9	44.40	2.8539	2.9322	.0783	1783.75	43.8963	628.777	287.090	
10-23-86	A01	A01TSP23	576	202	34011.4	35445.0	1433.6	46.70	2.7506	2.8505	.0999	1882.5684	53.0658	631.360	280.235	
10-29-86	A01	A01TSP24	576	210	35445.1	36880.7	1435.6	45.60	2.7313	2.8816	.1503	1838.3078	81.76	631.952	283.550	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 47.3618																
11-04-86	A01	A01TSP25	576	221	36880.7	38315.5	1434.8	43.80	2.7701	2.8807	.1106	1783.3403	62.0185	629.920	279.540	
11-10-86	A01	A01TSP26	576	232	38315.5	39748.3	1432.8	47.50	2.7187	2.7911	.0724	1935.4873	37.024	630.428	264.810	
11-16-86	A01	A01TSP27	576	244	39748.3	41180.4	1432.1	43.20	2.9171	2.9790	.0619	1739.4942	35.5851	622.808	283.760	
11-22-86	A01	A01TSP28	576	255	41180.4	42612.5	1432.1	44.70	2.8921	2.9683	.0762	1813.3027	42.0228	625.907	277.030	
11-28-86	A01	A01TSP29	576	275	42612.5	44045.8	1433.3	45.40	2.6765	2.7872	.1107	1826.733	60.6	629.285	282.970	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 46.0942																
12-04-86	A01	A01TSP30	576	279	44045.8	45480.2	1434.4	47.50	2.6777	2.9415	.2638	1942.0344	135.8369	631.266	270.110	
12-10-86	A01	A01TSP31	576	294	45480.3	46916.6	1436.3	47.50	2.6849	2.8226	.1377	1960.1723	70.2489	628.658	264.095	
12-16-86	A01	A01TSP32	576	301	46916.6	48351.6	1435	43.90	2.6797	2.9386	.2589	1866.077	138.7403	630.301	276.460	
12-22-86	A01	A01TSP33	576	312	48459.1	49892.8	1433.7	54.30	2.6875	3.0113	.3238	2493.9543	129.834	629.539	273.290	
12-28-86	A01	A01TSP34	576	326	49892.8	51328.2	1435.4	41.10	2.7743	2.8972	.1229	1891.0805	64.9914	630.174	274.720	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 102.24																
01-03-87	A01	A01TSP35	576	339	51328.2	52762.7	1434.5	41.40	2.8045	2.8858	.0813	1897.3059	42.8502	627.456	275.370	
01-09-87	A01	A01TSP36	576	347	52762.7	54197.8	1435.1	44.40	2.8636	3.0230	.1594	2049.3094	77.7823	627.761	272.000	
01-15-87	A01	A01TSP37	576	359	54197.8	55631.9	1434.1	46.10	2.7716	2.8113	.0397	2152.9817	18.4395	627.329	265.210	
01-21-87	A01	A01TSP38	576	370	55631.9	57066.1	1434.2	45.30	2.7241	3.0243	.3002	2095.195	143.2802	626.026	269.830	

TSP DATA 29 JUL 1988

DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
01-27-87	A01	A01TSP39	576	381	57066.1	58498.7	1432.6	42.00	2.9092	3.0373	.1281	1894.9366	67.6012	626.821	283.080	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 56.8781																
02-02-87	A01	A01TSP40	576	393	58498.7	59931.5	1432.8	42.80	2.9061	3.0527	.1466	1919.1617	76.3875	622.808	284.865	
02-08-87	A01	A01TSP41	576	406	59931.5	61365.5	1434	43.40	2.8165	2.9484	.1319	1983.8502	66.4869	631.698	278.565	
02-14-87	A01	A01TSP42	576	417	61365.5	62798.9	1433.4	42.50	2.8220	2.8854	.0634	1930.3731	32.8434	620.014	276.630	
02-20-87	A01	A01TSP43	576	430	62798.5	64234.8	1436.3	43.50	2.8256	2.9289	.1033	2013.7163	51.2982	628.650	271.195	
02-26-87	A01	A01TSP44	576	440	64234.8	65669.1	1434.3	44.10	2.8210	2.8588	.0378	2038.8265	18.5401	623.062	268.765	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 43.66																
03-04-87	A01	A01TSP45	576	448	65669.1	67103.4	1434.3	41.90	2.8217	3.0117	.19	1903.1378	99.8351	633.222	282.840	
03-10-87	A01	A01TSP46	576	465	67103.4	68538.2	1434.8	43.40	2.8056	2.9501	.1445	1995.4158	72.416	629.158	274.555	
03-16-87	A01	A01TSP47	576	472	68538.2	69973.3	1435.1	43.00	2.7871	2.8085	.0214	1961.924	10.9077	620.014	274.825	
03-22-87	A01	A01TSP48	576	487	69973.3	71408.4	1435.1	44.30	2.7862	2.8018	.0156	2003.3988	7.7868	620.268	279.900	
03-28-87	A01	A01TSP49	576	508	71408.4	72842.9	1434.5	44.60	2.7902	2.8161	.0259	2042.3614	12.6814	623.920	277.039	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 23.8932																
04-03-87	A01	A01TSP50	576	511	72842.9	74278.7	1435.8	44.50	2.7826	2.8781	.0955	2028.864	47.0707	628.320	279.260	
04-09-87	A01	A01TSP51	576	514	74278.7	75714.2	1435.5	44.30	2.7921	2.9017	.1096	2004.6471	54.673	625.805	282.205	
04-15-87	A01	A01TSP52	576	532	75714.2	77149.3	1435.1	42.60	2.8124	2.9106	.0982	1902.9324	51.6046	627.431	290.080	
04-21-87	A01	A01TSP53	576	544	78584.5	80021.1	1436.6	43.80	2.8288	2.9125	.0837	1970.9717	42.4664	635.457	290.185	
04-27-87	A01	A01TSP54	576	555	80021.1	81457.7	1436.6	43.70	2.7567	2.8304	.0737	1976.1763	37.2942	635.838	287.520	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 46.1934																
05-03-87	A01	A01TSP55	576	586	81457.7	82893.9	1436.2	45.8	2.7823	2.8020	.0197	2082.8853	9.458	628.904	281.14	
05-09-87	A01	A01TSP56	576	577	82893.9	84331.8	1437.9	43.8	2.8001	2.8647	.0646	1957.3761	33.0034	627.253	290.94	
05-15-87	A01	A01TSP57	576	588	87202.5	88639.1	1436.6	43.3	2.7608	2.8361	.0753	1922.898	39.1596	629.285	295.005	
05-21-87	A01	A01TSP58	576	608	90074.2	91510.8	1436.6	46.8	2.8329	2.8477	.0148	2079.605	7.1167	628.582	282.01	
05-27-87	A01	A01TSP59	576	610	91510.8	92947.8	1437	42.5	2.8328	2.9196	.0868	1904.9348	45.5659	622.173	286.455	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 20.8749																
06-02-87	A01	A01TSP60	576	622	92947.8	94381.7	1433.9	44.7	2.8116	2.9006	.089	2002.5759	44.4428	629.666	289.05	
06-08-87	A01	A01TSP61	576	633	95816.[illegible]	97252.0	1435.4	44.1	2.6372	2.7261	.0889	1973.8497	45.0389	630.386	290.495	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 44.7398																
ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 46.7641																
06-13-86	A02	A02TSP1	579	6	2789.6	4234.4	1444.8	41.00	2.9010	3.0279	.1269	1622.6585	78.205	629.920	288.730	
06-19-86	A02	A02TSP2	579	15	4234.4	5679.5	1445.1	41.30	2.9515	3.0601	.1086	1610.5396	67.4308	627.634	296.320	
06-25-86	A02	A02TSP3	579	30	5679.5	7133.3	1453.8	40.00	2.9069	3.0573	.1504	1587.9066	94.7159	627.338	288.945	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 79.3424																
07-01-86	A02	A02TSP4	579	40	7133.4	8574.7	1441.3	42.10	2.9045	3.0533	.1488	1650.7092	90.1431	630.089	293.125	
07-07-86	A02	A02TSP5	579	42	8574.7	10017.6	1442.9	41.00	2.9205	2.9984	.0779	1607.3631	48.4464	631.266	293.765	
07-13-86	A02	A02TSP6	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
07-19-86	A02	A02TSP7	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
07-25-86	A02	A02TSP8	581	73	12948.6	14393.6	1445	44.54	2.9194	2.9922	.0728	1763.5483	41.2804	631.190	293.280	
07-31-86	A02	A02TSP9	581	88	14393.6	15835.9	1442.3	42.56	2.9436	3.1047	.1611	1697.6698	94.8948	630.301	292.630	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 64.3124																
08-06-86	A02	A02TSP10	581	92	15835.9	17278.7	1442.8	41.00	2.9413	3.0870	.1457	1608.6894	90.5706	628.356	295.695	

TSP DATA 29 JUL 1988

DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
08-12-86	A02	A02TSP11	581	109	17278.7	18722.5	1443.8	41.58	2.9334	3.0526	.1192	1638.5043	72.7493	628.100	293.570	
08-18-86	A02	A02TSP12	581	117	18722.5	20166.4	1443.9	43.13	2.9059	3.0358	.1299	1691.0459	76.8164	631.910	298.645	
08-24-86	A02	A02TSP13	581	128	20166.4	21609.0	1442.6	43.77	2.9238	2.9696	.0458	1723.7025	26.5707	628.472	294.050	
08-30-86	A02	A02TSP14	581	132	21609.0	23053.0	1444	43.00	2.9361	3.0462	.1101	1699.2693	64.7926	628.320	292.390	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 61.3818																
09-05-86	A02	A02TSP15	581	142	23053.0	24494.5	1441.5	43.17	2.9123	3.0604	.1481	1708.0268	86.7082	630.000	291.515	
09-11-86	A02	A02TSP16	581	149	24494.5	25935.9	1441.4	43.42	2.9173	2.9842	.0669	1727.7184	38.7216	628.520	287.590	
09-17-86	A02	A02TSP17	581	161	25935.9	27380.2	1444.3	43.20	2.9060	3.0202	.1142	1709.2992	66.811	626.491	290.980	
09-23-86	A02	A02TSP18	581	170	27380.2	28825.4	1445.2	43.00	2.9166	3.0130	.0964	1705.7291	56.5154	625.433	289.350	
09-29-86	A02	A02TSP19	581	124	28825.4	30270.7	1445.3	44.60	2.9258	2.9850	.0592	1787.1794	33.1248	627.329	284.810	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 53.044																
10-05-86	A02	A02TSP20	581	175	30270.7	31713.8	1443.1	45.20	2.8824	2.9276	.0452	1824.0302	24.7803	632.841	282.590	
10-11-86	A02	A02TSP21	581	167	31713.8	33156.8	1443	45.80	2.9142	2.9617	.0475	1883.1684	25.2234	630.758	271.490	
10-17-86	A02	A02TSP22	581	196	33156.8	34611.5	1454.7	44.40	2.8913	2.9588	.0675	1785.4951	37.8046	628.777	287.090	
10-23-86	A02	A02TSP23	581	203	35593.4	37040.6	1447.2	45.00	2.7405	2.8115	.071	1826.5798	38.8705	631.360	280.235	
10-29-86	A02	A02TSP24	581	211	37040.8	38483.3	1442.5	48.70	2.7288	2.8779	.1491	1961.5142	76.0127	631.952	283.550	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 37.0504																
11-04-86	A02	A02TSP25	581	222	38483.3	39925.7	1442.4	57.70	2.7361	2.8707	.1346	2341.2077	57.4917	629.920	279.540	
11-10-86	A02	A02TSP26	581	233	39925.7	41371.0	1445.3	45.40	2.7149	2.8107	.0958	1892.7179	50.615	630.428	264.810	
11-16-86	A02	A02TSP27	581	245	41371.1	42814.1	1443	51.70	2.9333	2.9922	.0589	2068.4406	28.4756	622.808	283.760	
11-22-86	A02	A02TSP28	581	256	42814.1	44256.7	1442.6	51.20	2.8728	2.9722	.0994	2077.8568	47.8378	625.907	277.030	
11-28-86	A02	A02TSP29	581	274	44256.7	45699.8	1443.1	48.00	2.6604	2.7547	.0943	1931.6508	48.8183	629.285	282.970	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 45.4299																
12-04-86	A02	A02TSP30	581	280	45699.7	47143.5	1443.8	47.80	2.6900	2.9012	.2112	1973.4073	107.023	631.266	270.110	
12-10-86	A02	A02TSP31	581	293	47143.5	48588.8	1445.3	47.30	2.6765	2.7874	.1109	1972.8103	56.2142	628.638	264.095	
12-16-86	A02	A02TSP32	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
12-22-86	A02	A02TSP33	581	313	50153.8	51597.9	1444.1	42.50	2.7130	2.9166	.2036	1818.7913	111.9425	629.539	275.290	
12-28-86	A02	A02TSP34	581	327	51597.9	53042.8	1444.9	44.70	2.7602	2.8675	.1073	1921.8037	55.833	630.174	274.720	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 78.3073																
01-03-87	A02	A02TSP35	581	338	53042.8	54485.9	1443.1	44.30	2.8249	2.9038	.0789	1921.6652	41.0581	627.436	275.370	
01-09-87	A02	A02TSP36	581	348	54485.9	55932.3	1446.4	42.00	2.8391	2.9494	.1103	1807.8958	61.0102	627.761	272.000	
01-15-87	A02	A02TSP37	581	360	55932.3	57377.9	1445.6	41.30	2.7622	2.8086	.0464	1798.3535	25.8014	627.329	265.210	
01-21-87	A02	A02TSP38	581	371	57377.9	58822.3	1444.4	44.40	2.9049	2.9937	.0888	1919.0153	46.2737	626.026	269.830	
01-27-87	A02	A02TSP39	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 41.3838																
02-02-87	A02	A02TSP40	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
02-08-87	A02	A02TSP41	——	——	——	——	——	——	——	——	——	——	——	——	——	Power failure
02-14-87	A02	A02TSP42	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
02-20-87	A02	A02TSP43	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
02-26-87	A02	A02TSP44	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
03-04-87	A02	A02TSP45	584	449	63127.9	64571.6	1443.7	44.80	2.8250	2.9460	.121	1900.3622	63.6721	633.222	282.840	
03-10-87	A02	A02TSP46	584	463	64571.6	66017.1	1445.5	45.30	2.8352	2.9285	.0933	1957.6006	47.6604	629.158	274.555	
03-16-87	A02	A02TSP47	584	473	66017.1	67460.0	1442.9	45.10	2.7868	2.8106	.0238	1920.3312	12.3937	620.014	274.825	
03-22-87	A02	A02TSP48	584	495	67460.0	68905.7	945.7	45.80	2.7876	2.8089	.0213	1867.1357	16.8093	620.268	279.900	

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DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
03-28-87	A02	A02TSP49	584	507	68905.7	70352.6	1446.9	47.40	2.7782	2.8125	.0343	2036.812	16.84	629.920	277.039	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 25.4355																
04-03-87	A02	A02TSP50	584	512	70352.6	71797.0	1444.4	45.30	2.7806	2.8342	.0536	1928.526	27.7932	628.320	279.260	
04-09-87	A02	A02TSP51	584	521	71797.0	73242.5	1445.5	47.10	2.7755	2.8681	.0926	1995.1165	46.4133	625.805	282.205	
04-15-87	A02	A02TSP52	584	535	73242.5	74699.2	1456.7	44.10	2.8367	2.8934	.0567	1852.2949	30.6107	627.431	290.080	
04-21-87	A02	A02TSP53	584	546	74699.2	76143.1	1443.9	45.80	2.8057	2.8686	.0629	1922.6907	32.7146	635.457	290.185	
04-27-87	A02	A02TSP54	584	556	76143.1	77586.4	1443.3	45.40	2.7465	2.8408	.0943	1914.1394	49.265	635.838	287.520	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 36.3703																
05-03-87	A02	A02TSP55	584	567	77586.5	79030.3	1443.8	46.2	2.7865	2.8082	.0217	1832.0685	11.8445	628.904	281.14	
05-09-87	A02	A02TSP56	584	578	79030.3	80475.1	1444.8	44.6	2.7900	2.8512	.0612	1725.0882	35.4764	627.253	290.94	
05-15-87	A02	A02TSP57	584	589	80475.1	81919.8	1444.7	44.2	2.7676	2.8353	.0677	1697.0501	39.8928	629.285	295.005	
05-21-87	A02	A02TSP58	584	607	81919.8	83363.9	1444.1	43.7	2.8498	2.8695	.0197	1716.8379	11.4746	628.523	282.01	
05-27-87	A02	A02TSP59	584	611	83363.9	84808.4	1444.5	44.0	3.0099	3.0892	.0793	1705.5136	46.4963	622.173	286.435	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 24.5641																
06-02-87	A02	A02TSP60	584	623	84808.4	86254.4	1446	45.1	2.7962	2.8831	.0869	1758.8516	49.4072	629.666	289.05	
06-08-87	A02	A02TSP61	584	636	87637.9	89143.6	1445.7	39.8	2.8717	2.9646	.0929	1520.5408	61.0967	630.386	290.495	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 54.942																
ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 46.9131																
06-13-86	A03	A03TSP1	567	4	1474.6	2911.2	1436.6	42.00	2.9068	2.9916	.0848	1756.5067	48.2776	629.920	288.730	
06-19-86	A03	A03TSP2	567	22	2911.2	4344.7	1433.5	41.80	2.9486	3.0217	.0731	1718.7446	42.531	627.634	296.320	
06-25-86	A03	A03TSP3	567	25	4344.8	5776.7	1431.9	40.90	2.8944	2.9918	.0974	1700.7568	57.2686	627.338	288.945	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 48.9917																
07-01-86	A03	A03TSP4	567	35	5776.7	7210.0	1433.3	41.66	2.9194	3.0150	.0956	1725.4254	55.4066	630.089	293.125	
07-07-86	A03	A03TSP5	567	49	7210.0	8643.6	1433.6	43.08	2.9106	2.9581	.0475	1784.3527	26.6203	631.266	293.765	
07-13-86	A03	A03TSP6	567	56	8643.6	10075.6	1432	41.13	2.9153	3.0049	.0896	1693.6579	52.9032	628.320	295.160	
07-19-86	A03	A03TPS7	567	67	10075.6	11508.4	1432.8	42.71	2.9049	2.9535	.0486	1781.0665	27.287	634.704	291.060	
07-25-86	A03	A03TSP8	567	68	11508.4	12942.5	1434.1	41.42	2.9068	2.9654	.0586	1717.4843	34.1197	631.190	293.280	
07-31-86	A03	A03TSP9	567	84	12942.5	14378.5	1436	41.75	2.9011	3.0407	.1396	1734.1686	80.4997	630.301	292.630	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 42.4459																
08-06-86	A03	A03TSP10	567	99	14378.5	15811.1	1432.6	41.21	2.9202	3.0252	.105	1696.23	61.902	628.396	295.635	
08-12-86	A03	A03TSP11	567	106	15811.1	17245.6	1434.5	41.29	2.9444	3.0172	.0728	1707.5262	42.6348	628.100	293.570	
08-18-86	A03	A03TSP12	567	115	17245.6	18681.3	1435.7	45.83	2.9292	3.0273	.0981	1886.4401	52.0027	631.910	298.645	
08-24-86	A03	A03TSP13	567	126	18681.3	20115.0	1433.7	47.38	2.9315	2.9728	.0413	1957.3614	21.0998	628.472	294.050	
08-30-86	A03	A03TSP14	567	138	20115.0	21550.4	1435.4	46.63	2.8957	2.9811	.0854	1933.8859	44.1598	628.320	292.390	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 41.8177																
09-05-86	A03	A03TSP15	567	134	21550.4	22985.6	1435.2	46.92	2.9296	3.0292	.0996	1951.1692	51.0463	630.000	291.515	
09-11-86	A03	A03TSP16	567	152	22985.6	24420.2	1434.6	47.54	2.9044	2.9623	.0579	1987.2391	29.1359	628.520	287.590	
09-17-86	A03	A03TSP17	567	147	24420.2	25856.7	1436.5	46.50	2.9035	3.0075	.104	1931.8236	53.8351	626.491	290.980	
09-23-86	A03	A03TSP18	567	166	25856.7	27291.8	1435.1	47.20	2.9135	2.9855	.07	1962.8558	35.6623	625.433	289.350	
09-29-86	A03	A03TSP19	567	180	27291.8	28727.2	1435.4	48.80	2.9149	2.9626	.0477	2049.0598	23.279	627.329	284.810	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 35.6882																
10-05-86	A03	A03TSP20	567	184	28727.2	30163.9	1436.7	49.40	2.9196	2.9532	.0336	2093.4214	16.0503	632.841	282.590	

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DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
10-11-86	A03	A03TSP21	567	194	30163.9	31598.2	1434.3	50.80	2.7944	2.8144	.02	2189.0678	9.1363	630.758	271.490	
10-17-86	A03	A03TSP22	567	198	31598.2	33034.8	1436.6	49.30	2.7217	2.7765	.0548	2063.9268	26.5256	628.777	287.090	
10-23-86	A03	A03TSP23	567	204	34040.5	35476.9	1436.4	49.70	2.7533	2.8084	.0551	2112.0544	26.0883	631.360	280.235	
10-29-86	A03	A03TSP24	567	212	35476.9	36912.7	1435.8	50.10	2.7376	2.8307	.0931	2116.6801	43.984	631.952	283.550	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 21.3763																
11-04-86	A03	A03TSP25	567	223	36912.7	38347.4	1434.7	49.10	2.7424	2.8128	.0704	2084.2874	33.7765	629.920	279.540	
11-10-86	A03	A03TSP26	567	237	38347.4	39782.1	1434.7	52.80	2.7436	2.7878	.0442	2303.8448	19.1853	630.428	264.810	
11-16-86	A03	A03TSP27	567	248	39782.0	41217.0	1435	49.60	2.9268	2.9642	.0374	2078.3991	17.9946	622.808	283.760	
11-22-86	A03	A03TSP28	567	257	41217.0	42652.5	1435.5	50.20	2.8570	2.9340	.077	2134.9906	36.0657	625.907	277.030	
11-28-86	A03	A03TSP29	567	277	42652.5	44087.9	1435.4	49.90	2.6654	2.7096	.0442	2105.3417	20.9942	629.285	282.970	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 24.501																
12-04-86	A03	A03TSP30	567	281	44087.5	45522.0	1434.5	50.90	2.6885	2.8448	.1563	2200.1683	71.04	631.266	270.110	
12-10-86	A03	A03TSP31	567	296	45522.0	46960.3	1438.3	51.10	2.6953	2.7610	.0657	2235.1205	29.3944	628.658	264.095	
12-16-86	A03	A03TSP32	567	303	46960.3	48393.7	1433.4	50.70	2.6590	2.8165	.1575	2162.8814	72.8195	630.301	276.460	
12-22-86	A03	A03TSP33	567	314	48475.3	49914.5	1439.2	55.50	2.6956	2.8492	.1536	2483.357	61.8518	629.539	275.290	
12-28-86	A03	A03TSP34	567	330	49914.5	51351.1	1436.6	43.00	2.6963	2.7659	.0696	1907.3991	36.4895	630.174	274.720	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 50.9456																
01-03-87	A03	A03TSP35	567	336	51351.1	52788.2	1437.1	41.80	2.8560	2.9093	.0533	1846.3814	28.8673	627.456	275.370	
01-09-87	A03	A03TSP36	567	349	52788.2	54223.0	1434.8	43.80	2.8340	2.9120	.078	1947.9541	40.042	627.761	272.000	
01-15-87	A03	A03TSP37	567	361	54223.0	55656.5	1433.5	44.90	2.7694	2.7978	.0284	2022.4636	14.0423	627.329	265.210	
01-21-87	A03	A03TSP38	567	372	55656.5	57090.8	1434.3	43.60	2.9314	3.0084	.077	1943.3307	39.6227	626.026	269.830	
01-27-87	A03	A03TSP39	567	383	57090.8	58528.0	1437.2	42.10	2.9238	2.9747	.0509	1832.8188	27.7714	626.821	283.080	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 28.2085																
02-02-87	A03	A03TSP40	567	395	58528.0	59964.8	1436.8	42.20	2.9252	2.9863	.0611	1824.7411	33.4842	622.808	284.865	
02-08-87	A03	A03TSP41	567	408	59964.8	61402.0	1437.2	44.50	2.8250	2.9012	.0762	1965.5402	38.768	631.698	278.565	
02-14-87	A03	A03TSP42	567	418	61402.0	62839.4	1437.4	44.00	2.8342	2.8782	.044	1931.1647	22.7842	620.014	276.630	
02-20-87	A03	A03TSP43	567	432	62839.4	64274.5	1435.1	45.10	2.8116	2.8685	.0569	2012.8837	28.2679	628.650	271.195	
02-26-87	A03	A03TSP44	567	446	64274.5	65709.8	1435.3	44.70	2.8157	2.8418	.0261	1994.7457	13.0844	623.062	268.765	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 25.574																
03-04-87	A03	A03TSP45	567	450	65709.8	67145.3	1435.5	44.20	2.8344	2.9154	.081	1936.5789	41.8263	633.222	282.840	
03-10-87	A03	A03TSP46	567	470	67145.3	68580.8	1435.5	45.70	2.7955	2.8689	.0734	2029.0666	36.1743	629.158	274.535	
03-16-87	A03	A03TSP47	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
03-22-87	A03	A03TSP48	567	482	70016.2	71451.5	1435.3	45.90	2.7812	2.7900	.0088	2002.9188	4.3936	620.268	279.900	
03-28-87	A03	A03TSP49	567	502	71451.5	72884.8	1433.3	48.20	2.7791	2.7973	.0182	2132.1072	8.5362	623.920	277.039	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 15.4342																
04-03-87	A03	A03TSP50	567	513	72884.7	74320.7	1436	45.50	2.7842	2.8255	.0413	2001.4906	20.6346	628.320	279.260	
04-09-87	A03	A03TSP51	567	522	74320.7	75753.6	1432.9	44.70	2.8113	2.8943	.083	1946.1079	42.6492	625.805	282.205	
04-15-87	A03	A03TSP52	567	537	75753.6	77188.7	1435.1	44.50	2.8171	2.8841	.067	1915.1317	34.9845	627.431	290.080	
04-21-87	A03	A03TSP53	567	548	78623.2	80056.5	1433.3	44.30	2.8434	2.8904	.047	1916.0463	24.5297	635.457	290.185	
04-27-87	A03	A03TSP54	567	557	80056.6	81489.6	1433	45.10	2.7712	2.8360	.0648	1961.5009	33.0359	635.838	287.520	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 30.1587																
05-03-87	A03	A03TSP55	567	568	81489.6	82923.0	1433.4	45.8	2.7869	2.8033	.0164	2005.5004	8.1775	628.904	281.14	
05-09-87	A03	A03TSP56	567	579	82923.0	84356.7	1433.7	44.3	2.8083	2.8678	.0595	1901.1387	31.297	627.253	290.94	
05-15-87	A03	A03TSP57	567	590	87225.8	88660.7	1434.9	44.0	2.7619	2.8193	.0574	1878.9506	30.549	629.285	295.005	
05-21-87	A03	A03TSP58	567	605	90093.4	91527.8	1434.4	42.3	2.8123	2.8229	.0106	1844.4963	5.7468	628.523	282.01	

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DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
05-27-87	A03	A03TSP59	567	612	91527.0	92961.8	1434.8	43.1	2.9797	3.0356	.0559	1856.2367	30.1147	622.173	286.435	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 16.837																
06-02-87	A03	A03TSP60	567	624	92961.8	94397.1	1435.3	44.1	2.7070	2.7928	.0858	1904.5517	45.05	629.666	289.05	
06-08-87	A03	A03TSP61	567	634	95831.3	97266.6	1435.3	42.2	3.0574	3.1339	.0765	1815.7659	42.131	630.386	290.495	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 43.566																
ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 30.6389																
06-13-86	A04	A04TSP1	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
06-19-86	A04	A04TSP2	569	8	1461.6	2912.3	1450.7	37.00	2.8980	2.9646	.0666	1658.5977	40.1544	627.634	296.320	
06-25-86	A04	A04TSP3	569	27	2912.4	4363.1	1450.7	36.70	2.9107	2.9747	.064	1663.0889	38.4826	627.338	288.945	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 39.3096																
07-01-86	A04	A04TSP4	569	34	4363.1	5815.4	1452.3	35.50	2.9023	2.9783	.076	1624.917	46.7716	630.089	293.123	
07-07-86	A04	A04TSP5	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
07-13-86	A04	A04TSP6	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
07-19-86	A04	A04TSP7	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
07-25-86	A04	A04TSP8	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
07-31-86	A04	A04TSP9	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 46.7716																
08-06-86	A04	A04TSP10	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
08-12-86	A04	A04TSP11	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
08-18-86	A04	A04TSP12	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
08-24-86	A04	A04TSP13	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
08-30-86	A04	A04TSP14	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
09-05-86	A04	A04TSP15	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-11-86	A04	A04TSP16	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-17-86	A04	A04TSP17	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-23-86	A04	A04TSP18	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-29-86	A04	A04TSP19	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
10-05-86	A04	A04TSP20	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-11-86	A04	A04TSP21	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-17-86	A04	A04TSP22	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-23-86	A04	A04TSP23	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-29-86	A04	A04TSP24	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
11-04-86	A04	A04TSP25	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
11-10-86	A04	A04TSP26	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
11-16-86	A04	A04TSP27	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
11-22-86	A04	A04TSP28	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
11-28-86	A04	A04TSP29	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
12-04-86	A04	A04TSP30	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure

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DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
12-10-86	A04	A04TSP31	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
12-16-86	A04	A04TSP32	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
12-22-86	A04	A04TSP33	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
12-28-86	A04	A04TSP34	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
01-03-87	A04	A04TSP35	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
01-09-87	A04	A04TSP36	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
01-15-87	A04	A04TSP37	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
01-21-87	A04	A04TSP38	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
01-27-87	A04	A04TSP39	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
02-02-87	A04	A04TSP40	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
02-08-87	A04	A04TSP41	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
02-14-87	A04	A04TSP42	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
02-20-87	A04	A04TSP43	—	—	—	—	—	—	—	—	—	—	—	—	—	Power failure
02-26-87	A04	A04TSP44	—	—	—	—	—	—	—	—	—	—	—	—	—	Power failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
03-04-87	A04	A04TSP45	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
03-10-87	A04	A04TSP46	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
03-16-87	A04	A04TSP47	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
03-22-87	A04	A04TSP48	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
03-28-87	A04	A04TSP49	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
04-03-87	A04	A04TSP50	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
04-09-87	A04	A04TSP51	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
04-15-87	A04	A04TSP52	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
04-21-87	A04	A04TSP53	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
04-27-87	A04	A04TSP54	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
05-03-87	A04	A04TSP55	—	—	—	—	—	—	—	—	—	—	—	—	—	EQUIPMENT FAILURE
05-09-87	A04	A04TSP56	—	—	—	—	—	—	—	—	—	—	—	—	—	EQUIPMENT FAILURE
05-15-87	A04	A04TSP57	—	—	—	—	—	—	—	—	—	—	—	—	—	EQUIPMENT FAILURE
05-21-87	A04	A04TSP58	—	—	—	—	—	—	—	—	—	—	—	—	—	EQUIPMENT FAILURE
05-27-87	A04	A04TSP59	—	—	—	—	—	—	—	—	—	—	—	—	—	EQUIPMENT FAILURE
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
06-02-87	A04	A04TSP60	—	—	—	—	—	—	—	—	—	—	—	—	—	EQUIPMENT FAILURE
06-08-87	A04	A04TSP61	—	—	—	—	—	—	—	—	—	—	—	—	—	EQUIPMENT FAILURE
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 42.8786																
06-13-86	A05	A05TSP1	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
06-19-86	A05	A05TSP2	575	20	2532.8	3977.6	1444.8	38.00	2.9652	3.0217	.0565	1621.5635	34.8429	627.634	296.320	
06-25-86	A05	A05TSP3	575	33	3977.6	5420.3	1442.7	39.00	2.9049	2.9682	.0633	1680.3296	37.6712	627.338	288.945	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 36.2295																

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DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
07-01-86	A05	A05TSP4	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
07-07-86	A05	A05TSP5	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
07-13-86	A05	A05TSP6	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
07-19-86	A05	A05TSP7	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
07-25-86	A05	A05TSP8	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
07-31-86	A05	A05TSP9	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
08-06-86	A05	A05TSP10	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
08-12-86	A05	A05TSP11	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
08-18-86	A05	A05TSP12	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
08-24-86	A05	A05TSP13	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
08-30-86	A05	A05TSP14	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
09-05-86	A05	A05TSP15	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-11-86	A05	A05TSP16	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-17-86	A05	A05TSP17	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-23-86	A05	A05TSP18	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-29-86	A05	A05TSP19	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
10-05-86	A05	A05TSP20	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-11-86	A05	A05TSP21	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure685
10-17-86	A05	A05TSP22	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-23-86	A05	A05TSP23	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-29-86	A05	A05TSP24	575	213	5467.3	6911.4	1444.1	46.50	2.7225	2.8066	.0841	2020.2933	41.6275	631.952	283.550	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 41.6275																
11-04-86	A05	A05TSP25	575	225	6912.0	8356.9	1444.9	43.70	2.7140	2.7940	.08	1913.2498	41.8137	629.920	279.540	
11-10-86	A05	A05TSP26	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
11-16-86	A05	A05TSP27	575	247	9801.2	11245.1	1443.9	45.80	2.9356	2.9807	.0451	1975.684	22.8275	622.808	283.760	
11-22-86	A05	A05TSP28	575	258	11245.1	12688.6	1443.5	46.10	2.8473	2.9160	.0687	2015.9006	34.0791	625.907	277.030	
11-28-86	A05	A05TSP29	575	271	12688.6	14132.0	1443.4	46.50	2.6890	2.7373	.0483	2017.1789	23.9443	629.285	282.570	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 23.7076																
12-04-86	A05	A05TSP30	575	283	14132.0	15575.5	1443.5	46.40	2.6881	2.9130	.2249	2062.3118	109.0524	631.266	270.110	
12-10-86	A05	A05TSP31	575	291	15575.5	17021.1	1445.6	46.00	2.6849	2.8129	.128	2130.7761	60.072	628.658	264.055	
12-16-86	A05	A05TSP32	575	304	17022.4	18466.0	1443.6	45.80	2.6740	2.8750	.201	2012.1207	99.8946	630.301	276.460	
12-22-86	A05	A05TSP33	575	322	18527.8	19972.0	1444.2	50.70	2.7869	2.9826	.1957	2294.2349	85.3008	629.539	275.290	
12-28-86	A05	A05TSP34	575	324	19972.0	21416.6	1444.6	44.80	2.7702	2.8731	.1029	2038.6569	50.4744	630.174	274.720	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 77.6202																
01-03-87	A05	A05TSP35	575	344	21416.6	22860.3	1443.7	43.80	2.8876	2.9646	.077	1986.9774	38.7523	627.456	275.370	
01-09-87	A05	A05TSP36	575	350	22860.9	24305.0	1444.1	44.30	2.8172	2.9427	.1255	2021.9216	62.0697	627.761	272.000	
01-15-87	A05	A05TSP37	575	362	24304.9	25749.0	1444.1	44.30	2.9138	2.9411	.0273	2046.1066	13.3424	627.329	263.210	
01-21-87	A05	A05TSP38	575	373	25749.0	27192.9	1443.9	43.50	2.9259	3.0202	.0943	1991.3818	47.3541	626.086	263.830	
01-27-87	A05	A05TSP39	575	384	27192.9	28636.2	1443.3	42.60	2.9080	3.0242	.1162	1907.3111	60.9235	626.821	283.080	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 39.2082																
02-02-87	A05	A05TSP40	575	396	28636.2	30079.9	1443.7	42.40	2.9253	3.0240	.0947	1887.5924	50.1697	622.808	284.063	

TSP DATA 29 JUL 1[illegible]

DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
02-08-87	A05	A05TSP41	575	409	30079.9	31523.4	1443.5	44.30	2.8308	2.9354	.1046	2003.9639	52.1963	631.698	278.565	
02-14-87	A05	A05TSP42	575	419	31523.4	32966.8	1443.4	44.50	2.8147	2.8648	.0501	2001.2221	25.0347	620.014	276.630	
02-20-87	A05	A05TSP43	575	435	32966.8	34409.8	1443	45.70	2.8232	2.9249	.1017	2086.53	48.7412	628.650	271.195	
02-26-87	A05	A05TSP44	575	443	34409.8	35852.7	1442.9	46.10	2.8227	2.8509	.0282	2104.1338	13.4082	623.062	268.765	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 33.6																
03-04-87	A05	A05TSP45	575	451	35852.7	37295.9	1443.2	44.20	2.8155	2.9625	.147	1986.8303	73.9872	633.222	282.040	
03-10-87	A05	A05TSP46	575	467	37295.9	38739.1	1443.2	46.10	2.8195	2.9590	.1395	2092.8102	66.6368	629.158	274.555	
03-16-87	A05	A05TSP47	575	476	38739.1	40182.3	1443.2	46.60	2.8098	2.8291	.0193	2098.8478	9.1955	620.014	274.825	
03-22-87	A05	A05TSP48	575	497	[illegible]182.3	41625.3	1443	46.10	2.8034	2.8163	.0129	2058.8641	6.2656	620.268	273.900	
03-28-87	A05	A05TSP49	575	505	41625.3	43069.3	1444	47.80	2.7781	2.8024	.0243	2160.5386	11.2472	629.320	277.039	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 19.9940																
04-03-87	A05	A05TSP50	575	515	43069.3	44512.3	1443	45.50	2.7907	2.8782	.0875	2047.925	42.7252	628.320	273.850	
04-09-87	A05	A05TSP51	575	524	44512.3	45955.1	1442.8	46.00	2.8133	2.9161	.0968	2054.9402	47.106	625.805	282.205	
04-15-87	A05	A05TSP52	575	538	45955.1	47396.8	1441.7	46.0	2.8157	2.8905	.0748	2028.6381	36.872	627.431	290.08	
04-21-87	A05	A05TSP53	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
04-27-87	A05	A05TSP54	575	558	50282.6	51724.7	1442.1	45.80	2.8538	2.9252	.0714	2042.5823	34.9558	635.838	287.520	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 40.1325																
05-03-87	A05	A05TSP55	575	569	51724.7	53167.4	1442.7	45.4	2.7746	2.7884	.0138	2037.4432	6.7732	628.904	281.14	
05-09-87	A05	A05TSP56	575	580	53167.4	54609.3	1441.9	45.2	2.7942	2.8549	.0607	1953.9558	30.442	627.253	290.29	
05-15-87	A05	A05TSP57	575	591	57495.5	58937.1	1441.6	45.2	2.7535	2.8377	.0842	1997.607	42.1504	629.285	290.005	
05-21-87	A05	A05TSP58	575	609	60380.5	61823.1	1442.6	45.8	2.8365	2.8482	.0117	2050.9919	5.7046	628.523	282.01	
05-27-87	A05	A05TSP59	575	613	61823.1	63265.3	1442.2	43.3	2.9446	3.0098	.0652	1918.1286	33.9915	622.173	286.455	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 17.5927																
06-02-87	A05	A05TSP60	575	625	63265.3	64705.3	1440	40.1	2.6835	2.7719	.0884	1781.1353	48.5004	629.666	289.05	
06-08-87	A05	A05TSP61	575	635	66150.6	67594.1	1443.5	42.2	2.8954	2.9664	.071	1871.9843	37.9277	630.386	290.495	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 42.893																
ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 35.0192																
06-13-86	A06	A06TSP1	565	10	1436.3	2896.3	1440	39.50	2.9211	2.9955	.0744	1773.4021	41.9533	629.920	288.730	
06-19-86	A06	A06TSP2	565	13	2896.4	4338.0	1441.6	41.00	2.9499	3.0089	.059	1817.6149	32.4601	627.634	296.320	
06-25-86	A06	A06TSP3	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 36.9027																
07-01-86	A06	A06TSP4	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
07-07-86	A06	A06TSP5	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
07-13-86	A06	A06TSP6	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
07-19-86	A06	A06TSP7	565	63	4566.0	6010.8	1442.8	40.00	2.9090	2.9545	.0455	1799.9463	25.2785	634.704	291.060	
07-25-86	A06	A06TSP8	565	77	6010.8	7451.1	1440.3	40.42	2.9204	2.9721	.0437	1804.1154	24.2224	631.190	293.280	
07-31-86	A06	A06TSP9	565	89	7451.1	8889.5	1438.4	42.33	2.9233	3.0356	.1123	1891.5734	59.3686	630.301	292.630	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 33.1265																
08-06-86	A06	A06TSP10	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
08-12-86	A06	A06TSP11	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
08-18-86	A06	A06TSP12	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
08-24-86	A06	A06TSP13	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
08-30-86	A06	A06TSP14	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																

DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
09-05-86	A06	A06TSP15	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-11-86	A06	A06TSP16	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-17-86	A06	A06JTSP17	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-17-86	A06	A06TSP17	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-23-86	A06	A06TSP18	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-29-86	A06	A06TSP19	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
10-05-86	A06	A06TSP20	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-11-86	A06	A06TSP21	—	—	—	—	—	—	—	—	—	—	—	—	—	EQUIPMENT FAILURE
10-17-86	A06	A06TSP22	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-23-86	A06	A06TSP23	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-29-86	A06	A06TSP24	565	214	8890.7	10331.1	1440.4	45.20	2.7152	2.8073	.0921	2064.5741	44.6097	631.932	283.550	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 44.6097																
11-04-86	A06	A06TSP25	565	226	10331.2	11769.4	1438.2	43.20	2.7209	2.7902	.0693	1977.8799	35.0375	629.989	279.540	
11-10-86	A06	A06TSP26	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
11-16-86	A06	A06TSP27	565	243	13206.5	14643.8	1437.3	45.00	2.8497	2.8841	.0344	2034.3777	16.9093	622.808	283.760	
11-22-86	A06	A06TSP28	565	259	14643.8	16081.6	1437.8	44.90	2.8368	2.9018	.065	2061.8037	31.535	625.907	277.030	
11-28-86	A06	A06TSP29	565	272	16081.6	17519.4	1437.8	44.60	2.7103	2.7766	.0663	2030.0302	32.6586	629.285	282.970	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 27.9488																
12-04-86	A06	A06TSP30	565	282	17519.4	18957.5	1438.1	45.40	2.6926	2.8748	.1822	2122.4063	85.8427	631.266	270.110	
12-10-86	A06	A06TSP31	565	290	18957.5	20397.0	1439.5	46.90	2.6743	2.7594	.0851	2218.5272	38.3580	628.658	264.095	
12-16-86	A06	A06TSP32	565	305	20397.0	21835.4	1438.4	45.00	2.6749	2.8283	.1534	2076.594	73.871	630.301	276.460	
12-22-86	A0[illegible]	A06TSP33	565	321	21870.5	23310.8	1440.3	51.50	2.6726	2.8320	.1594	2249.639	70.8747	629.539	275.290	
12-28-86	A0[illegible]	A06TSP34	565	323	23310.8	24753.1	1442.3	41.80	2.7815	2.8709	.0894	1842.7089	48.5155	630.174	274.720	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 60.0811																
01-03-87	A06	A06TSP35	565	345	24753.1	26192.4	1439.3	43.30	2.8532	2.9193	.0661	1881.7518	35.1258	627.456	275.370	
01-09-87	A06	A06TSP36	565	351	26192.4	27631.6	1439.2	45.30	2.7963	2.8933	.097	1953.2762	48.6636	627.761	272.000	
01-15-87	A06	A06TSP37	565	363	27631.6	29071.5	1439.9	45.30	2.9142	2.9417	.0275	2009.2258	13.6869	627.329	265.210	
01-21-87	A06	A06TSP38	565	374	29071.5	30512.3	1440.8	45.30	2.7081	3.0095	.3014	1990.7492	151.4003	626.086	259.830	
01-27-87	A06	A06TSP39	565	385	30512.3	31952.4	1440.1	44.20	2.9032	2.9713	.0681	1894.8637	35.9393	626.821	283.080	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 41.78																
02-02-87	A06	A06TSP40	565	397	31952.4	33392.4	1440	43.30	2.9075	2.9816	.0741	1843.3591	40.1984	622.808	284.865	
02-08-87	A06	A06TSP41	565	410	33392.4	34832.3	1439.9	43.90	2.8315	2.9149	.0834	1904.4943	43.7912	631.638	278.565	
02-14-87	A06	A06TSP42	565	420	34832.3	36272.6	1440.3	43.60	2.8150	2.8613	.0463	1880.478	24.6214	620.014	276.630	
02-20-87	A06	A06TSP43	565	436	36272.6	37713.0	1440.4	44.50	2.8116	2.8816	.07	1953.501	35.8331	628.630	271.135	
02-26-87	A06	A06TSP44	565	444	37713.0	39153.3	1440.3	44.70	2.8091	2.8364	.0273	1962.3919	13.9116	623.062	268.765	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 29.3031																
03-04-87	A06	A06TSP45	565	452	39153.3	40594.4	1441.1	43.50	2.8208	2.9045	.0837	1876.0435	44.6192	633.222	282.040	
03-10-87	A06	A06TSP46	565	466	40594.4	42035.2	1440.8	44.30	2.8821	2.9166	.0945	1933.7047	48.8699	629.158	274.535	
03-16-87	A06	A06TSP47	565	477	42035.2	43475.8	1440.6	43.90	2.8083	2.8219	.0136	1900.4173	7.1563	620.014	274.825	
03-22-87	A06	A06TSP48	565	498	43475.8	44917.0	1441.2	44.10	2.7738	2.7915	.0117	1892.6332	6.1817	620.258	273.900	
03-28-87	A06	A06TSP49	565	506	44917.0	46358.0	1441	45.20	2.7912	2.8128	.0216	1956.2241	10.9855	629.920	277.039	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 16.0338																

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DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
04-03-87	A06	A06TSP50	565	516	46358.0	47798.7	1440.7	44.50	2.7741	2.8276	.0535	1924.4042	27.8008	628.289	279.260	
04-09-87	A06	A06TSP51	565	525	47798.7	49238.7	1440	43.00	2.8157	2.8959	.0802	1843.62	43.5014	625.085	282.205	
04-15-87	A06	A06TSP52	565	539	49238.7	50677.6	1438.9	42.20	2.8236	2.8817	.0561	1784.3458	31.4401	627.431	290.080	
04-21-87	A06	A06TSP53	565	543	50677.6	52116.6	1439	43.70	2.8284	2.8547	.0523	1860.9777	28.1035	635.457	290.185	
04-27-87	A06	A06TSP54	565	559	52116.6	53555.4	1438.8	43.70	2.8530	2.9130	.060	1878.0747	31.9148	635.838	287.520	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 31.5209																
05-03-87	A06	A06TSP55	565	570	53555.4	54994.5	1439.1	44.9	2.7830	2.7986	.0136	1946.4662	6.987	628.904	281.14	
05-09-87	A06	A06TSP56	565	581	54994.5	56432.8	1438.3	44.8	2.7928	2.8471	.0543	1892.7542	28.6884	627.253	290.94	
05-15-87	A06	A06TSP57	565	592	56416.5	57854.7	1438.2	44.7	2.7600	2.8169	.0569	1908.5712	29.8129	629.285	290.005	
05-21-87	A06	A06TSP58	——	——	——	——	——	——	——	——	——	——	——	——	——	EQUIPMENT FAILURE
05-27-87	A06	A06TSP59	565	614	61294.8	62634.9	1340.1	43.9	2.9518	3.0148	.063	1748.4215	36.0325	622.173	286.435	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 21.5414																
06-02-87	A06	A06TSP60	565	626	62734.9	64176.2	1441.3	45.8	2.6406	2.7300	.0894	1961.8878	45.5684	629.666	289.05	
06-08-87	A06	A06TSP61	565	643	64831.7	66268.2	1436.5	45.6	2.7736	2.8463	.0727	1943.4758	37.4072	630.386	290.435	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 41.2866																
ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 33.0686																
06-13-86	A07	A07TSP1	——	——	——	——	——	——	——	——	——	——	——	——	——	Power failure
06-19-86	A07	A07TSP2	——	——	——	——	——	——	——	——	——	——	——	——	——	No power
06-25-86	A07	A07TSP3	——	——	——	——	——	——	——	——	——	——	——	——	——	Power failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
07-01-86	A07	A07TSP4	——	——	——	——	——	——	——	——	——	——	——	——	——	Power failure
07-07-86	A07	A07TSP5	——	——	——	——	——	——	——	——	——	——	——	——	——	Power failure
07-13-86	A07	A07TSP6	566	58	12.0	1477.6	1465.6	37.54	2.9022	2.9969	.0947	1601.5212	59.1313	628.320	293.160	
07-19-86	A07	A07TSP7	566	50	3217.8	4684.0	1466.2	37.20	2.9003	2.9397	.0394	1606.9359	24.5184	634.704	291.060	
07-25-86	A07	A07TSP8	566	74	4684.0	6149.7	1465.7	36.81	2.9284	2.9746	.0462	1578.8909	29.261	631.190	293.280	
07-31-86	A07	A07TSP9	566	83	6149.7	7615.7	1466	36.67	2.9052	3.0121	.1069	1573.7928	67.9251	630.301	292.630	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 41.201																
08-06-86	A07	A07TSP10	566	94	7615.7	9081.9	1466.2	36.67	2.9263	3.0224	.0959	1363.3586	61.3423	628.396	295.695	
08-12-86	A07	A07TSP11	566	103	9081.5	10550.5	1469	37.71	2.9228	2.9918	.069	1616.6914	42.6798	628.100	293.570	
08-18-86	A07	A07TSP12	566	119	10550.5	12018.0	1467.5	43.54	2.9241	3.0285	.1044	1856.6733	56.2296	631.910	298.645	
08-24-86	A07	A07TSP13	566	123	12018.0	13484.8	1466.8	44.75	2.9274	2.9671	.0397	1917.4721	20.7043	628.472	294.050	
08-30-86	A07	A07TSP14	566	136	13484.8	14949.5	1464.7	44.67	2.8940	2.9833	.0893	1916.504	46.5953	628.320	292.390	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 42.7041																
09-05-86	A07	A07TSP15	566	144	14949.4	16416.8	1467.4	44.25	2.9272	3.0168	.0896	1907.2808	46.9779	630.000	291.515	
09-11-86	A07	A07TSP16	566	156	16416.8	17881.2	1464.4	44.08	2.9223	2.9937	.0772	1941.6282	39.7604	628.520	287.590	
09-17-86	A07	A07TSP17	566	163	17881.2	19347.4	1466.2	44.30	2.9142	3.0275	.1133	1904.2906	59.4972	625.491	290.980	
09-23-86	A07	A07TSP18	566	172	19347.4	20812.8	1463.4	44.30	2.8942	2.9709	.0767	1907.0225	40.2198	625.433	289.350	
09-29-86	A07	A07TSP19	566	178	20812.8	22279.2	1466.4	45.60	2.8867	2.9356	.0489	1983.5127	24.6532	627.329	284.810	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 40.5911																
10-05-86	A07	A07TSP20	566	189	22279.2	23744.9	1465.7	45.00	2.9050	2.9476	.0386	1972.6041	19.5572	632.041	282.590	
10-11-86	A07	A07TSP21	566	186	23744.9	25210.6	1465.7	46.20	2.8786	2.8941	.0155	2153.3603	7.1974	630.758	271.490	
10-17-86	A07	A07TSP22	566	190	25210.6	26677.0	1466.4	46.00	2.8956	2.9608	.1012	1995.3395	50.7182	628.777	287.090	
10-23-86	A07	A07TSP23	566	205	27636.1	29121.3	1465.2	44.80	2.7425	2.8144	.0719	1989.1485	36.5132	631.360	280.235	
10-29-86	A07	A07TSP24	566	215	29123.1	30588.9	1465.8	46.10	2.7345	2.8660	.1315	2016.5361	65.2168	631.952	283.550	

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DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 27.9336																
11-04-86	A07	A07TSP25	566	227	30288.9	32053.5	1464.6	47.10	2.7316	2.8136	.082	2070.3847	39.6062	625.920	279.540	
11-10-86	A07	A07TSP26	566	234	32053.5	33519.2	1465.7	47.50	2.7302	2.7954	.0652	2148.2866	30.3458	630.428	264.810	
11-16-86	A07	A07TSP27	566	246	33519.2	34983.9	1464.7	45.90	2.9444	2.9832	.0388	1990.7944	19.4897	622.808	283.760	
11-22-86	A07	A07TSP28	566	260	34983.9	36448.7	1464.8	47.00	2.8412	2.9110	.0698	2068.9762	33.7365	625.907	277.030	
11-28-86	A07	A07TSP29	566	270	36448.7	37914.1	1465.4	46.30	2.7513	2.8011	.0498	2022.574	24.6221	629.285	282.970	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 28.6963																
12-04-86	A07	A07TSP30	566	284	37914.1	39380.1	1466	47.80	2.6890	2.9049	.2159	2142.3539	100.7769	631.266	270.110	
12-10-86	A07	A07TSP31	566	292	39380.1	40847.1	1467	51.40	2.6668	2.7617	.0949	2327.8587	40.7671	628.658	264.095	
12-16-86	A07	A07TSP32	566	306	40847.1	42312.9	1465.8	48.10	2.6794	2.8717	.1923	2128.8867	90.3289	630.301	276.460	
12-22-86	A07	A07TSP33	566	320	42398.4	43864.4	1466	48.00	2.6775	2.8500	.1725	2132.9222	80.875	629.539	275.290	
12-28-86	A07	A07TSP34	566	325	43864.4	45331.6	1467.2	43.90	2.7794	2.8749	.0955	1952.006	48.924	630.174	274.720	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 68.1344																
01-03-87	A07	A07TSP35	566	343	45331.6	46799.2	1467.6	43.10	2.9010	2.9814	.0804	2033.4212	39.5393	627.456	275.370	
01-09-87	A07	A07TSP36	566	352	46799.2	48265.5	1466.3	43.90	2.8048	2.9202	.1154	2084.9045	55.3303	627.761	272.000	
01-15-87	A07	A07TSP37	566	364	48265.5	49731.1	1465.6	43.80	2.9074	2.9334	.026	2105.8025	12.3468	627.329	265.210	
01-21-87	A07	A07TSP38	566	375	49731.1	51196.3	1465.2	45.90	2.8936	2.9876	.094	2188.3717	42.9543	626.086	269.830	
01-27-87	A07	A07TSP39	566	386	51196.3	52663.2	1466.9	46.00	2.8817	2.9508	.0691	2143.1329	32.2425	626.821	283.080	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 32.706																
02-02-87	A07	A07TSP40	566	398	52663.2	54129.9	1466.7	45.60	2.9174	3.0021	.0847	2109.3864	40.1539	622.808	284.865	
02-08-87	A07	A07TSP41	566	411	54129.9	55596.6	1466.7	46.00	2.8343	2.9300	.0957	2169.617	44.1092	631.698	278.565	
02-14-87	A07	A07TSP42	566	421	55596.6	57063.2	1466.6	43.00	2.8141	2.8604	.0463	2009.7086	23.0382	620.014	276.630	
02-20-87	A07	A07TSP43	566	434	57063.2	58530.1	1466.9	43.50	2.8148	2.8954	.0806	2030.5294	38.3548	628.650	271.155	
02-26-87	A07	A07TSP44	566	441	58530.1	59997.1	1467	45.00	2.8102	2.8355	.0253	2145.4244	11.7925	623.062	268.765	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 28.4235																
03-04-87	A07	A07TSP45	566	453	59997.1	61464.8	1467.7	42.80	2.8154	2.9334	.118	2000.2637	58.9922	633.222	282.840	
03-10-87	A07	A07TSP46	566	471	61464.8	62932.7	1467.9	47.80	2.7883	2.8890	.1007	2272.2736	44.3168	623.158	274.535	
03-16-87	A07	A07TSP47	566	478	62932.7	64400.1	1467.4	46.90	2.8454	2.8602	.0148	2208.9736	6.6999	620.014	274.825	
03-22-87	A07	A07TSP48	566	496	64400.1	65867.7	1467.6	44.00	2.7865	2.7999	.0134	2047.8036	6.5436	620.268	279.500	
03-28-87	A07	A07TSP49	566	504	65867.7	67333.6	1465.9	48.40	2.7902	2.8100	.0198	2289.307	8.6481	629.920	277.039	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 15.821																
04-03-87	A07	A07TSP50	566	517	67333.6	68799.3	1465.7	40.60	2.7832	2.8465	.0633	1895.1019	33.4019	628.320	279.260	
04-09-87	A07	A07TSP51	566	526	68799.3	70264.9	1465.6	40.10	2.8135	2.8906	.0771	1856.3412	41.5333	625.805	282.205	
04-15-87	A07	A07TSP52	566	540	70264.9	71731.9	1467	39.20	2.8122	2.8817	.0695	1795.5605	38.7066	627.431	290.080	
04-21-87	A07	A07TSP53	566	545	71731.9	73198.2	1466.3	40.40	2.8397	2.9021	.0624	1859.4968	33.5575	635.457	290.185	
04-27-87	A07	A07TSP54	566	560	73198.2	74664.8	1466.6	40.00	2.8272	2.8894	.0622	1850.6733	33.6203	635.838	287.520	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 36.0138																
05-03-87	A07	A07TSP55	566	571	74664.8	76131.5	1466.7	41.1	2.7723	2.7865	.0142	1801.0863	7.8841	628.904	281.14	
05-09-87	A07	A07TSP56	566	582	76131.5	77598.3	1466.8	40.7	2.7891	2.8520	.0629	1749.9733	35.9434	627.253	290.94	
05-15-87	A07	A07TSP57	566	593	77598.3	79065.6	1467.3	38.4	2.7637	2.8238	.0621	1654.8581	37.5259	629.285	290.005	
05-21-87	A07	A07TSP58	566	602	79065.6	80532.1	1466.5	42.0	2.7535	2.8049	.0114	1837.6718	6.8035	628.523	282.01	
05-27-87	A07	A07TSP59	566	615	80532.1	81999.0	1466.9	38.7	2.9230	2.9896	.0666	1668.4539	39.9172	622.173	286.435	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 19.2354																

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DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
06-02-87	A07	A07TSP60	566	627	81999.0	83464.8	1465.8	40.6	2.6373	2.7188	.0815	1753.6486	46.4745	629.666	289.05	
06-08-87	A07	A07TSP61	566	637	83464.8	84930.3	1465.5	39.7	2.8189	2.8860	.0671	1710.1782	39.2357	630.386	290.495	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 42.702																
ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 33.0477																
06-13-86	A08	A08TSP1	564	9	11.2	1462.2	1451	40.50	2.8923	2.9711	.0788	1741.6622	45.2441	629.920	288.730	
06-19-86	A08	A08TSP2	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
06-25-86	A08	A08TSP3	564	24	2911.7	4363.4	1451.7	40.30	2.9123	2.9850	.0727	1730.1843	42.0186	627.338	288.945	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 43.6016																
07-01-86	A08	A08TSP4	564	28	4363.4	5812.9	1449.5	39.33	2.9006	2.9903	.0897	1679.5006	53.4087	630.089	293.125	
07-07-86	A08	A08TSP5	564	43	5812.9	7263.2	1450.3	38.83	2.9016	2.9531	.0515	1659.6568	31.0305	631.266	293.765	
07-13-86	A08	A08TSP6	564	60	7263.2	8715.1	1451.9	40.94	2.8968	3.0029	.1061	1740.8653	60.9677	628.320	295.160	
07-19-86	A08	A08TSP7	564	70	10218.1	11670.2	1452.1	40.30	2.9159	2.9588	.0429	1734.3099	24.7361	634.704	291.060	
07-25-86	A08	A08TSP8	564	82	11670.2	13122.2	1452	39.46	2.8976	2.9484	.0508	1688.7257	30.0819	631.190	293.280	
07-31-86	A08	A08TSP9	564	76	13122.2	14575.4	1453.2	39.21	2.9369	3.0493	.1124	1680.4876	66.8853	630.301	292.630	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 41.3915																
08-06-86	A08	A08TSP10	564	96	14575.4	16026.6	1451.2	39.08	2.8976	3.0272	.1296	1662.0666	77.9752	628.356	295.695	
08-12-86	A08	A08TSP11	564	104	16026.6	17478.0	1451.4	39.42	2.9149	2.9982	.0833	1681.6154	49.5357	628.100	293.570	
08-18-86	A08	A08TSP12	564	113	17478.0	18930.2	1452.2	38.88	2.8909	2.9883	.0974	1651.5879	58.9735	631.910	298.645	
08-24-86	A08	A08TSP13	564	130	18930.2	20381.9	1451.7	49.21	2.9440	2.9936	.0496	2082.1414	23.8216	628.472	294.050	
08-30-86	A08	A08TSP14	564	131	20381.9	21835.3	1453.4	49.58	2.9342	3.0379	.1037	2105.2705	49.2573	628.320	292.390	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 48.4613																
09-05-86	A08	A08TSP15	564	145	21835.3	23287.9	1452.6	48.38	2.8922	2.9911	.0989	2060.4355	47.9996	630.000	291.515	
09-11-86	A08	A08TSP16	——	——	——	——	——	——	——	——	——	——	——	——	——	Power failure
09-17-86	A08	A08TSP17	564	158	24570.3	26026.1	1455.8	48.90	2.9114	3.0148	.1034	2082.6715	49.6478	626.491	290.980	
09-23-86	A08	A08TSP18	564	165	26026.1	27479.3	1453.2	49.30	2.9243	3.0060	.0817	2093.4021	38.9158	625.433	289.350	
09-29-86	A08	A08TSP19	564	183	27479.3	28935.4	1456.1	51.20	2.9032	2.9676	.0644	2202.1206	29.2445	627.329	284.810	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 40.5814																
10-05-86	A08	A08TSP20	564	185	28935.4	30392.2	1456.8	50.90	2.9369	2.9762	.0393	2208.3346	17.7962	632.841	282.590	
10-11-86	A08	A08TSP21	564	193	30392.2	31847.9	1455.7	52.50	2.8172	2.8472	.03	2314.9023	12.9595	630.758	271.490	
10-17-86	A08	A08TSP22	564	201	31847.9	33304.1	1456.2	51.40	2.7320	2.8078	.0758	2204.3468	34.3835	628.777	287.090	
10-23-86	A08	A08TSP23	564	206	34351.4	35808.9	1457.5	51.90	2.7867	2.7898	.0631	2258.0851	27.944	631.360	280.235	
10-29-86	A08	A08TSP24	564	216	35808.9	37264.9	1456	51.90	2.7375	2.8683	.1308	2243.9467	58.2902	631.952	283.550	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 25.4381																
11-04-86	A08	A08TSP25	564	224	37264.9	38722.2	1457.3	30.50	2.7234	2.8065	.0791	1354.4339	58.4008	629.920	279.540	
11-10-86	A08	A08TSP26	564	242	38722.3	40177.7	1455.4	42.00	2.7486	2.8099	.0613	1886.9166	32.4869	630.428	264.810	
11-16-86	A08	A08TSP27	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
11-22-86	A08	A08TSP28	564	261	41633.9	43088.5	1454.6	45.50	2.8430	2.9042	.0592	1986.6095	29.7995	625.907	277.030	
11-28-86	A08	A08TSP29	564	269	43088.8	44542.7	1453.9	43.70	2.7709	2.8292	.0583	1895.1966	30.762	629.285	282.970	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 36.3131																
12-04-86	A08	A08TSP30	564	285	44542.7	46000.2	1457.5	46.00	2.6842	2.8787	.1945	2044.8846	95.1154	631.266	270.110	
12-10-86	A08	A08TSP31	564	298	46000.2	47458.9	1458.7	46.60	2.6881	2.7777	.0896	2090.91	42.8582	628.638	264.095	
12-16-86	A08	A08TSP32	564	307	47458.9	48917.7	1458.8	45.40	2.6843	2.8446	.1603	1956.8385	80.2771	630.301	276.460	
12-22-86	A08	A08TSP33	——	——	——	——	——	——	——	——	——	——	——	——	——	Power failure
12-28-86	A08	A08TSP34	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure

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DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO..	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 68.9083																
01-03-87	ADB	ADBTSP35	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
01-09-87	ADB	ADBTSP36	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
01-15-87	ADB	ADBTSP37	564	365	52340.7	53809.3	1468.6	36.30	2.9045	2.9343	.0298	1564.8816	19.043	627.329	283.210	
01-21-87	ADB	ADBTSP38	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
01-27-87	ADB	ADBTSP39	564	387	55278.1	56751.1	1473	35.30	2.9163	2.9664	.0501	1458.0067	34.362	626.821	283.080	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 25.5804																
02-02-87	ADB	ADBTSP40	564	399	56751.1	58220.9	1469.8	35.50	2.9219	2.9839	.062	1453.5916	42.653	622.808	284.865	
02-08-87	ADB	ADBTSP41	564	412	58220.9	59693.5	1472.6	35.70	2.8337	2.9031	.0694	1499.2372	46.2902	631.698	278.565	
02-14-87	ADB	ADBTSP42	564	422	59693.5	61165.9	1472.4	35.90	2.8191	2.8572	.0381	1498.5563	25.4245	620.014	276.630	
02-20-87	ADB	ADBTSP43	564	427	61165.9	62638.2	1472.3	37.40	2.8006	2.8612	.0606	1606.4376	37.7232	628.630	271.135	
02-26-87	ADB	ADBTSP44	564	437	62638.2	64108.4	1470.2	37.30	2.8201	2.8523	.0322	1599.0791	20.1366	623.062	268.765	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 32.829																
03-04-87	ADB	ADBTSP45	564	454	64108.4	65581.0	1472.6	36.70	2.8092	2.8866	.0774	1538.1882	50.3189	633.222	282.840	
03-10-87	ADB	ADBTSP46	564	460	65581.0	67053.8	1472.8	38.70	2.8037	2.8695	.0658	1662.4489	39.5802	629.158	274.335	
03-16-87	ADB	ADBTSP47	564	479	67053.8	68524.2	1470.4	37.00	2.8130	2.8274	.0144	1538.2099	9.2414	620.014	274.825	
03-22-87	ADB	ADBTSP48	564	491	68524.2	69994.0	1469.8	36.80	2.7880	2.8053	.0173	1530.8442	11.301	620.268	279.900	
03-28-87	ADB	ADBTSP49	564	499	69994.0	71463.1	1469.1	38.00	2.7941	2.8150	.0209	1615.0083	12.9411	629.920	277.039	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 19.32																
04-03-87	ADB	ADBTSP50	564	500	71463.3	72933.1	1469.8	37.80	2.7897	2.8408	.0511	1595.5144	32.0273	628.320	279.260	
04-09-87	ADB	ADBTSP51	564	527	72933.1	74403.1	1470	39.40	2.8277	2.9074	.0797	1662.281	47.9462	625.805	282.205	
04-15-87	ADB	ADBTSP52	564	534	74403.1	75873.2	1470.1	42.50	2.8091	2.8736	.0645	1791.6698	35.9999	627.431	290.080	
04-21-87	ADB	ADBTSP53	564	551	77342.0	78813.8	1471.8	43.80	2.8446	2.8995	.0549	1871.7827	29.3303	635.457	290.185	
04-27-87	ADB	ADBTSP54	564	561	78813.8	80284.5	1470.7	42.50	2.8594	2.9234	.064	1815.9173	35.2439	635.838	287.520	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 35.5555																
05-03-87	ADB	ADBTSP55	564	572	80284.5	81754.8	1470.3	43.5	2.7587	2.7754	.0167	2037.2088	8.1975	628.904	281.14	
05-09-87	ADB	ADBTSP56	564	583	81754.8	83223.9	1469.1	42.3	2.8056	2.8637	.0581	1939.0709	29.9628	627.253	290.94	
05-15-87	ADB	ADBTSP57	564	594	86163.8	87641.2	1475.4	42.1	2.7605	2.8214	.0609	1944.3039	31.3223	629.285	290.005	
05-21-87	ADB	ADBTSP58	564	601	87641.2	89110.0	1468.8	43.8	2.7356	2.7716	.015	2045.0429	7.3319	628.523	282.01	
05-27-87	ADB	ADBTSP59	——	——	——	——	——	——	——	——	——	——	——	——	——	EQUIPMENT FAILURE
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 13.4111																
06-02-87	ADB	ADBTSP60	564	628	90579.1	92048.1	1469	42.7	2.6885	2.7040	.0955	1968.7787	48.3072	629.666	289.05	
06-08-87	ADB	ADBTSP61	564	638	93515.9	94986.1	1470.2	43.1	2.8025	2.8778	.0753	1985.7054	37.921	630.386	290.495	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 42.8887																
ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 34.2614																
06-13-86	ADB	ADBTSP1	577	1	19.5	1470.6	1451.1	38.70	2.9015	2.9593	.0578	1666.3153	34.6873	629.920	288.730	
06-19-86	ADB	ADBTSP2	577	19	1470.7	2923.2	1452.5	40.00	2.9587	3.0201	.0614	1659.8752	37.1025	627.634	296.320	
06-25-86	ADB	ADBTSP3	577	12	2923.2	4376.4	1453.2	40.00	2.9110	2.9886	.0776	1677.9536	46.2468	627.338	288.945	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 39.0438																
07-01-86	ADB	ADBTSP4	577	29	4376.4	5828.5	1452.1	40.29	2.9135	3.0035	.09	1680.7283	53.5482	630.089	293.125	
07-07-86	ADB	ADBTSP5	577	44	5828.5	7279.5	1451	40.83	2.9124	2.9649	.0525	1783.482	30.8192	631.256	293.765	
07-13-86	ADB	ADBTSP6	577	61	7279.5	8732.3	1452.8	41.15	2.9152	3.0087	.0935	1711.3004	54.6366	628.320	295.160	

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07-19-86	A09	A09TSP7	577	71	10215.6	11668.6	1453	41.21	2.9165	2.9621	.0456	1736.6517	26.2574	634.704	291.060	
07-25-86	A09	A09TSP8	577	81	11668.6	13122.6	1454	40.81	2.8618	2.9561	.0943	1707.5125	55.2265	631.190	293.280	
07-31-86	A09	A09TSP9	577	90	13122.6	14575.3	1452.7	40.67	2.9243	3.0472	.1229	1700.413	72.2766	630.301	292.630	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 45.9806																
08-06-86	A09	A09TSP10	577	95	14575.3	16028.0	1452.7	40.00	2.8994	2.9909	.0915	1658.0814	55.1843	628.396	295.635	
08-12-86	A09	A09TSP11	577	110	16028.0	17480.0	1452	40.50	2.9540	3.0374	.0834	1685.8112	49.4717	628.100	293.570	
08-18-86	A09	A09TSP12	577	114	17480.0	18934.0	1454	39.71	2.8976	2.9991	.1015	1642.6826	61.7892	631.910	298.645	
08-24-86	A09	A09TSP13	——	——	——	——	——	——	——	——	——	——	——	——	——	Power failure
08-30-86	A09	A09TSP14	——	——	——	——	——	——	——	——	——	——	——	——	——	Power failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 55.2537																
09-05-86	A09	A09TSP15	577	146	18934.0	20388.1	1454.1	48.29	2.8951	2.9879	.0928	2049.9071	45.2703	630.000	291.515	
09-11-86	A09	A09TSP16	577	150	20388.1	21841.2	1453.1	49.13	2.9189	2.9898	.0709	2098.9582	33.7787	628.520	287.590	
09-17-86	A09	A09TSP17	577	159	21841.2	23295.7	1454.5	49.50	2.8966	2.9880	.0914	2101.0403	43.5023	626.491	290.980	
09-23-86	A09	A09TSP18	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
09-29-86	A09	A09TSP19	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 40.5187																
10-05-86	A09	A09TSP20	579	168	1530.5	2988.3	1457.8	52.40	2.9193	2.9609	.0416	2535.7609	16.277	632.841	282.590	
10-11-86	A09	A09TSP21	579	192	2988.3	4449.4	1461.1	55.30	2.8348	2.8608	.026	2757.449	9.429	630.758	271.490	
10-17-86	A09	A09TSP22	579	200	4449.4	5908.2	1458.8	54.00	2.7302	2.7970	.0668	2607.4716	25.6187	628.777	287.090	
10-23-86	A09	A09TSP23	579	207	5941.2	8398.2	1457	54.30	2.7276	2.7865	.0589	2657.0465	22.1675	631.360	280.235	
10-29-86	A09	A09TSP24	579	218	5830.6	7282.8	1452.2	45.40	2.7570	2.8516	.0946	2193.4058	43.1293	631.952	283.550	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 20.6546																
11-04-86	A09	A09TSP25	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
11-10-86	A09	A09TSP26	579	239	11314.7	12775.2	1460.5	47.40	2.7521	2.8021	.05	2384.5334	20.9685	630.428	264.810	
11-16-86	A09	A09TSP27	579	251	12775.2	14232.8	1457.6	45.40	2.9170	2.9495	.0325	2184.3641	14.8785	622.808	283.760	
11-22-86	A09	A09TSP28	579	263	14232.8	15690.6	1457.8	46.20	2.8205	2.8757	.0552	2257.3097	24.4539	625.907	277.030	
11-28-86	A09	A09TSP29	579	268	15690.6	17147.8	1457.2	45.10	2.7692	2.8233	.0541	2183.6239	24.7753	629.285	282.970	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 38																
12-04-86	A09	A09TSP30	579	287	17147.8	18607.5	1459.7	47.00	2.6662	2.8360	.1698	2084.4097	81.4619	631.266	270.110	
12-10-86	A09	A09TSP31	579	300	18607.5	19971.7	1364.2	48.00	2.7109	2.7815	.0706	2011.7457	35.0939	628.658	264.095	
12-16-86	A09	A09TSP32	579	309	19971.7	21430.8	1459.1	47.10	2.6684	2.8273	.1589	2060.9058	77.102	630.301	276.460	
12-22-86	A09	A09TSP33	579	316	21479.5	22935.4	1455.9	54.60	2.6858	2.8384	.1526	2444.585	62.4237	629.539	275.290	
12-28-86	A09	A09TSP34	579	332	22935.4	24393.3	1457.9	43.80	2.8902	2.9785	.0883	1905.0159	46.2513	630.174	274.720	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 57.6677																
01-03-87	A09	A09TSP35	579	341	24393.3	25852.9	1459.6	44.30	2.7851	2.8425	.0574	1907.1383	30.0974	627.456	275.370	
01-09-87	A09	A09TSP36	579	355	25852.9	27313.3	1460.4	44.70	2.7818	2.8732	.0914	1936.6532	47.1948	627.761	272.000	
01-15-87	A09	A09TSP37	579	367	27313.3	28772.5	1459.2	44.60	2.9245	2.9613	.0368	1953.8889	18.8342	627.329	265.210	
01-21-87	A09	A09TSP38	——	——	——	——	——	——	——	——	——	——	——	——	——	EQUIPMENT FAILURE
01-27-87	A09	A09TSP39	579	389	28849.8	30306.6	1456.8	43.30	2.9065	2.9598	.0533	1836.7029	29.0194	626.821	283.080	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 29.6835																
02-02-87	A09	A09TSP40	579	401	30306.7	31764.0	1457.3	43.30	2.8056	2.8718	.0662	1826.1526	36.2511	622.808	284.865	
02-08-87	A09	A09TSP41	579	414	31764.0	33221.8	1457.8	43.70	2.8287	2.9027	.074	1873.6345	39.4533	631.698	278.565	
02-14-87	A09	A09TSP42	579	424	33221.8	34679.3	1457.5	43.70	2.8267	2.8716	.0449	1864.7325	24.0785	620.014	276.630	
02-20-87	A09	A09TSP43	579	429	34679.3	36137.6	1458.3	44.30	2.8243	2.8869	.0626	1921.2535	32.5829	628.650	271.195	
02-26-87	A09	A09TSP44	579	439	36137.6	37596.3	1458.7	44.30	2.8193	2.8536	.0343	1921.8472	17.8474	623.062	268.765	

TSP DATA 29 JUL 1988

DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 28.8616																
03-04-87	A09	A09TSP45	579	456	37596.3	39055.2	1458.9	42.80	2.8176	2.8980	.0804	1828.5859	43.9684	633.222	282.840	
03-10-87	A09	A09TSP46	579	461	39055.2	40514.0	1458.8	42.90	2.8195	2.8955	.076	1853.1833	41.0105	629.158	274.535	
03-16-87	A09	A09TSP47	579	481	40514.0	41972.8	1458.8	43.00	2.7879	2.8030	.0151	1843.4446	8.1912	620.014	274.825	
03-22-87	A09	A09TSP48	579	492	41972.8	43431.9	1459.1	43.80	2.7787	2.7959	.0172	1860.715	9.2438	620.268	279.900	
03-28-87	A09	A09TSP49	579	485	43431.9	44890.4	1458.5	43.60	2.7878	2.8095	.0217	1874.8152	11.5745	629.920	277.039	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 17.3679																
04-03-87	A09	A09TSP50	579	509	44890.4	46346.3	1455.9	42.60	2.7964	2.8483	.0519	1820.973	28.5012	628.320	279.260	
04-09-87	A09	A09TSP51	579	528	46346.3	47804.0	1457.7	42.60	2.8348	2.9121	.0773	1810.5743	42.6936	625.805	282.205	
04-15-87	A09	A09TSP52	579	535	47804.0	49262.6	1458.6	41.70	2.8367	2.8934	.0567	1753.8527	32.3288	627.431	290.080	
04-21-87	A09	A09TSP53	579	550	49262.6	50720.0	1457.4	45.10	2.8389	2.8913	.0524	1900.6609	27.5694	635.457	290.185	
04-27-87	A09	A09TSP54	579	563	50720.0	52176.9	1456.9	41.70	2.8389	2.8937	.0548	1770.5347	30.9511	635.838	287.520	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 32.0025																
05-03-87	A09	A09TSP55	579	574	52176.9	53634.0	1457.1	49.5	2.7594	2.7710	.0116	2161.3217	5.3671	628.904	281.14	
05-09-87	A09	A09TSP56	579	585	53634.0	55080.0	1446	41.9	2.7897	2.8497	.06	1729.7065	34.688	627.253	290.94	
05-15-87	A09	A09TSP57	——	——	——	——	——	——	——	——	——	——	——	——	——	EQUIPMENT FAILURE
05-21-87	A09	A09TSP58	579	599	55155.7	56621.5	1465.8	41.9	2.7924	2.8058	.0134	1788.024	7.4943	628.523	282.01	
05-27-87	A09	A09TSP59	579	618	56621.5	58086.6	1465.1	41.9	2.8152	2.8733	.0581	1760.2246	33.0072	622.173	286.455	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 14.6492																
06-02-87	A09	A09TSP60	579	630	58086.8	59552.1	1465.3	41.3	3.0380	3.1177	.0797	1733.7582	45.9655	629.666	289.05	
06-08-87	A09	A09TSP61	579	640	61017.8	62483.5	1465.7	42.5	2.7094	2.7832	.0738	1789.7461	41.2349	630.386	290.495	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 43.5379																
ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 31.5202																
06-13-86	A010	A010TSP1	578	3	1499.4	2956.6	1457.2	42.40	2.8946	2.9859	.0913	1817.2209	50.2416	629.920	288.730	
06-19-86	A010	A010TSP2	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
06-25-86	A010	A010TSP3	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 50.2416																
07-01-86	A010	A010TSP4	578	38	2956.7	4412.3	1455.6	40.30	2.9119	3.0007	.0888	1716.3912	51.7365	630.089	293.125	
07-07-86	A010	A010TSP5	578	48	4412.4	5867.6	1455.2	41.23	2.9142	2.9615	.0473	1753.6323	26.9717	631.266	293.765	
07-13-86	A010	A010TSP6	578	54	5867.6	7311.5	1443.9	40.36	2.9195	3.0358	.1163	1697.0808	68.5294	628.320	295.160	
07-19-86	A010	A010TSP7	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
07-25-86	A010	A010TSP8	578	78	8117.1	9574.0	1456.9	40.38	2.8970	2.9494	.0524	1722.2067	30.4261	631.190	293.280	
07-31-86	A010	A010TSP9	578	86	9574.0	11029.5	1455.5	40.67	2.9365	3.0590	.1225	1733.0966	70.6827	630.301	292.630	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 45.9063																
08-06-86	A010	A010TSP10	578	101	11029.6	12485.0	1455.4	41.08	2.9266	3.0216	.095	1738.4947	54.645	628.396	295.695	
08-12-86	A010	A010TSP11	578	108	12485.1	13951.9	1466.8	41.38	2.9099	2.9779	.068	1770.1371	38.4151	628.100	293.570	
08-18-86	A010	A010TSP12	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
08-24-86	A010	A010TSP13	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
08-30-86	A010	A010TSP14	578	140	14056.7	15511.7	1455	45.46	2.8945	2.9810	.0865	1986.4252	44.9018	628.320	292.390	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 45.5098																
09-05-86	A010	A010TSP15	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
09-11-86	A010	A010TSP16	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure

DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
09-17-86	A010	A010TSP17	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-23-86	A010	A010TSP18	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-29-86	A010	A010TSP19	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
10-05-86	A010	A010TSP20	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-11-86	A010	A010TSP21	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-17-86	A010	A010TSP22	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-23-86	A010	A010TSP23	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-29-86	A010	A010TSP24	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
11-04-86	A010	A010TSP25	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
11-10-86	A010	A010TSP26	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
11-16-86	A010	A010TSP27	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
11-22-86	A010	A010TSP28	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
11-28-86	A010	A010TSP29	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
12-04-86	A010	A010TSP30	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
12-10-86	A010	A010TSP31	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
12-16-86	A010	A010TSP32	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
12-22-86	A010	A010TSP33	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
12-28-86	A010	A010TSP34	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
01-03-87	A010	A010TSP35	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
01-09-87	A010	A010TSP36	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
01-15-87	A010	A010TSP37	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
01-21-87	A010	A010TSP38	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
01-27-87	A010	A010TSP39	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
02-02-87	A010	A010TSP40	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
02-08-87	A010	A010TSP41	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
02-14-87	A010	A010TSP42	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
02-20-87	A010	A010TSP43	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
02-26-87	A010	A010TSP44	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
03-04-87	A010	A010TSP45	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
03-10-87	A010	A010TSP46	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
03-16-87	A010	A010TSP47	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
03-22-87	A010	A010TSP48	568	494	19031.4	20485.5	1454.1	46.40	2.7864	2.7986	.0122	2055.6784	5.9348	620.268	279.900	
03-28-87	A010	A010TSP49	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 5.9348																
04-03-87	A010	A010TSP50	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
04-09-87	A010	A010TSP51	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
04-15-87	A010	A010TSP52	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
04-21-87	A010	A010TSP53	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
04-27-87	A010	A010TSP54	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure

DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 28.8616																
03-04-87	A09	A09TSP45	579	456	37596.3	39055.2	1458.9	42.80	2.8176	2.8980	.0804	1828.5839	43.9684	633.222	282.840	
03-10-87	A09	A09TSP46	579	461	39055.2	40514.0	1458.8	42.90	2.8195	2.8955	.076	1853.1833	41.0105	629.158	274.555	
03-16-87	A09	A09TSP47	579	481	40514.0	41972.8	1458.8	43.00	2.7879	2.8030	.0151	1843.4446	8.1912	620.014	274.825	
03-22-87	A09	A09TSP48	579	492	41972.8	43431.9	1459.1	43.80	2.7787	2.7959	.0172	1860.715	9.2438	620.268	279.900	
03-28-87	A09	A09TSP49	579	485	43431.9	44890.4	1458.5	43.60	2.7878	2.8095	.0217	1874.8152	11.5745	623.920	277.039	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 17.3679																
04-03-87	A09	A09TSP50	579	509	44890.4	46346.3	1455.9	42.60	2.7964	2.8483	.0519	1820.973	28.5012	628.320	279.260	
04-09-87	A09	A09TSP51	579	528	46346.3	47804.0	1457.7	42.60	2.8348	2.9121	.0773	1810.5743	42.6936	625.805	282.205	
04-15-87	A09	A09TSP52	579	535	47804.0	49262.6	1458.6	41.70	2.8367	2.8934	.0567	1753.8527	32.3288	627.431	290.080	
04-21-87	A09	A09TSP53	579	550	49262.6	50720.0	1457.4	45.10	2.8389	2.8913	.0524	1900.6609	27.5694	635.457	290.185	
04-27-87	A09	A09TSP54	579	563	50720.0	52176.9	1456.9	41.70	2.8389	2.8937	.0548	1770.5347	30.9511	635.838	287.520	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 32.0025																
05-03-87	A09	A09TSP55	579	574	52176.9	53634.0	1457.1	49.5	2.7594	2.7710	.0116	2161.3217	5.3671	628.904	281.14	
05-09-87	A09	A09TSP56	579	585	53634.0	55080.0	1446	41.9	2.7897	2.8497	.06	1729.7065	34.688	627.253	290.94	
05-15-87	A09	A09TSP57	——	——	——	——	——	——	——	——	——	——	——	——	——	EQUIPMENT FAILURE
05-21-87	A09	A09TSP58	579	599	55155.7	56621.5	1465.8	41.9	2.7924	2.8058	.0134	1788.024	7.4943	628.523	282.01	
05-27-87	A09	A09TSP59	579	618	56621.5	58086.6	1465.1	41.9	2.8152	2.8733	.0581	1760.8246	33.0072	622.173	286.455	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 14.6492																
06-02-87	A09	A09TSP60	579	630	58086.8	59552.1	1465.3	41.3	3.0380	3.1177	.0797	1733.7582	45.9695	629.666	289.05	
06-08-87	A09	A09TSP61	579	640	61017.8	62483.5	1465.7	42.5	2.7094	2.7832	.0738	1789.7461	41.2349	630.386	290.495	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 43.5379																
ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 31.5202																
06-13-86	A010	A010TSP1	578	3	1499.4	2956.6	1457.2	42.40	2.8946	2.9859	.0913	1817.2209	50.2416	629.920	288.730	
06-19-86	A010	A010TSP2	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
06-25-86	A010	A010TSP3	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 50.2416																
07-01-86	A010	A010TSP4	578	38	2956.7	4412.3	1455.6	40.30	2.9119	3.0007	.0888	1716.3912	51.7365	630.089	293.125	
07-07-86	A010	A010TSP5	578	48	4412.4	5867.6	1455.2	41.23	2.9142	2.9615	.0473	1753.6923	26.9717	631.266	293.765	
07-13-86	A010	A010TSP6	578	54	5867.6	7311.5	1443.9	40.36	2.9195	3.0358	.1163	1697.0808	68.5294	628.320	295.160	
07-19-86	A010	A010TSP7	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
07-25-86	A010	A010TSP8	578	78	8117.1	9574.0	1456.9	40.38	2.8970	2.9494	.0524	1722.2067	30.4261	631.190	293.280	
07-31-86	A010	A010TSP9	578	86	9574.0	11029.5	1455.5	40.67	2.9363	3.0590	.1225	1733.0966	70.6827	630.301	292.630	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 45.9863																
08-06-86	A010	A010TSP10	578	101	11029.6	12485.0	1455.4	41.08	2.9266	3.0216	.095	1738.4947	54.645	628.396	295.695	
08-12-86	A010	A010TSP11	578	108	12485.1	13951.9	1466.8	41.38	2.9099	2.9779	.068	1770.1371	38.4151	628.100	293.570	
08-18-86	A010	A010TSP12	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
08-24-86	A010	A010TSP13	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
08-30-86	A010	A010TSP14	578	140	14056.7	15511.7	1455	45.46	2.8945	2.9810	.0865	1986.4252	44.9018	628.320	292.390	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 45.5098																
09-05-86	A010	A010TSP15	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
09-11-86	A010	A010TSP16	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure

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DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
09-17-86	A010	A010TSP17	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-23-86	A010	A010TSP18	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-29-86	A010	A010TSP19	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
10-05-86	A010	A010TSP20	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-11-86	A010	A010TSP21	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-17-86	A010	A010TSP22	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-23-86	A010	A010TSP23	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-29-86	A010	A010TSP24	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
11-04-86	A010	A010TSP25	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
11-10-86	A010	A010TSP26	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
11-16-86	A010	A010TSP27	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
11-22-86	A010	A010TSP28	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
11-28-86	A010	A010TSP29	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
12-04-86	A010	A010TSP30	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
12-10-86	A010	A010TSP31	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
12-16-86	A010	A010TSP32	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
12-22-86	A010	A010TSP33	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
12-28-86	A010	A010TSP34	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
01-03-87	A010	A010TSP35	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
01-09-87	A010	A010TSP36	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
01-15-87	A010	A010TSP37	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
01-21-87	A010	A010TSP38	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
01-27-87	A010	A010TSP39	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
02-02-87	A010	A010TSP40	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
02-08-87	A010	A010TSP41	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
02-14-87	A010	A010TSP42	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
02-20-87	A010	A010TSP43	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
02-26-87	A010	A010TSP44	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
03-04-87	A010	A010TSP45	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
03-10-87	A010	A010TSP46	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
03-16-87	A010	A010TSP47	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
03-22-87	A010	A010TSP48	368	494	19031.4	20485.5	1454.1	46.40	2.7864	2.7986	.0122	2055.6784	5.9348	620.268	279.900	
03-28-87	A010	A010TSP49	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 5.9348																
04-03-87	A010	A010TSP50	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
04-09-87	A010	A010TSP51	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
04-15-87	A010	A010TSP52	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
04-21-87	A010	A010TSP53	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
04-27-87	A010	A010TSP54	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure

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DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO..	FILTER.NO..	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
05-03-87	A010	A010TSP55	—	—	—	—	—	—	—	—	—	—	—	—	—	EQUIPMENT FAILURE
05-09-87	A010	A010TSP56	—	—	—	—	—	—	—	—	—	—	—	—	—	EQUIPMENT FAILURE
05-15-87	A010	A010TSP57	—	—	—	—	—	—	—	—	—	—	—	—	—	EQUIPMENT FAILURE
05-21-87	A010	A010TSP58	—	—	—	—	—	—	—	—	—	—	—	—	—	EQUIPMENT FAILURE
05-27-87	A010	A010TSP59	—	—	—	—	—	—	—	—	—	—	—	—	—	EQUIPMENT FAILURE
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
06-02-87	A010	A010TSP60	—	—	—	—	—	—	—	—	—	—	—	—	—	EQUIPMENT FAILURE
06-08-87	A010	A010TSP61	—	—	—	—	—	—	—	—	—	—	—	—	—	EQUIPMENT FAILURE
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 28.1061																
06-13-86	A011	A011TSP1	568	5	1479.5	2935.1	1455.6	39.00	2.9049	2.9841	.0792	1727.692	45.8415	629.920	288.730	
06-19-86	A011	A011TSP2	568	23	2935.1	4389.5	1454.4	37.50	2.9233	2.9959	.0726	1637.1155	44.3462	627.634	296.320	
06-25-86	A011	A011TSP3	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 45.0876																
07-01-86	A011	A011TSP4	568	39	5841.5	7294.7	1453.2	39.06	2.9180	3.0237	.1057	1714.9077	61.636	630.089	293.125	
07-07-86	A011	A011TSP5	568	47	7294.7	8746.5	1451.8	39.21	2.9146	2.9615	.0469	1719.4512	27.2761	631.266	293.765	
07-13-86	A011	A011TSP6	568	55	8746.5	10197.4	1450.9	38.96	2.8930	3.0050	.112	1699.749	65.8921	628.320	295.160	
07-19-86	A011	A011TSP7	568	64	10197.4	11649.4	1452	38.62	2.9186	2.9732	.0546	1706.5311	31.9947	634.704	291.060	
07-25-86	A011	A011TSP8	568	80	11649.4	13099.8	1450.4	38.65	2.9007	2.9695	.0688	1694.9721	40.5906	631.190	293.280	
07-31-86	A011	A011TSP9	568	85	13099.8	14550.9	1451.1	39.50	2.8952	3.0187	.1235	1733.0977	71.2597	630.301	292.630	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 46.6086																
08-06-86	A011	A011TSP10	568	100	14551.0	16003.9	1452.9	39.04	2.9033	3.0054	.1021	1704.1094	59.914	628.396	295.695	
08-12-86	A011	A011TSP11	—	—	—	—	—	—	—	—	—	—	—	—	—	Power failure
08-18-86	A011	A011TSP12	568	116	16748.9	18207.3	1458.4	46.17	2.9286	3.0446	.116	2013.0116	57.6251	631.910	298.645	
08-24-86	A011	A011TSP13	568	127	18207.3	19660.1	1452.8	35.88	2.9171	2.9629	.0458	1572.9441	29.1174	628.472	294.050	
08-30-86	A011	A011TSP14	568	139	19660.9	21113.6	1452.7	46.75	2.9053	3.0009	.0956	2045.4703	46.7374	628.320	292.390	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 46.3573																
09-05-86	A011	A011TSP15	568	120	21113.6	22566.8	1453.2	46.81	2.9380	3.0498	.1118	2054.4874	54.4175	630.000	291.515	
09-11-86	A011	A011TSP16	568	153	22566.8	24018.2	1451.4	47.48	2.8788	2.9470	.0682	2092.3896	32.5943	628.520	287.590	
09-17-86	A011	A011TSP17	568	160	24018.2	25470.3	1452.1	46.70	2.8962	3.0052	.109	2044.4026	53.3163	625.491	290.980	
09-23-86	A011	A011TSP18	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
09-29-86	A011	A011TSP19	568	182	25470.4	26923.4	1453	49.00	2.9154	2.9678	.0524	2169.1115	24.1574	627.329	284.810	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 38.8774																
10-05-86	A011	A011TSP20	568	176	26923.4	28374.7	1451.3	48.90	2.8997	2.9384	.0387	2179.9511	17.7527	632.841	282.590	
10-11-86	A011	A011TSP21	568	195	28374.7	29827.4	1452.7	52.10	2.8141	2.8368	.0227	2365.3703	9.5968	630.758	271.490	
10-17-86	A011	A011TSP22	—	—	—	—	—	—	—	—	—	—	—	—	—	Equipment failure
10-23-86	A011	A011TSP23	568	208	32284.2	33737.1	1452.9	50.10	2.7144	2.7853	.0709	2241.8059	31.6263	631.360	280.235	
10-29-86	A011	A011TSP24	568	219	33737.2	35188.6	1451.4	48.70	2.7374	2.8475	.1101	2166.1821	50.8268	631.952	283.550	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 22.8761																
11-04-86	A011	A011TSP25	568	230	35188.6	36640.5	1451.9	54.20	2.7205	2.7992	.0787	2421.3217	32.5029	629.920	279.540	
11-10-86	A011	A011TSP26	568	238	36640.5	38090.0	1449.5	51.60	2.7728	2.8306	.0578	2366.1109	24.4283	630.428	264.810	

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DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME...:	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
11-16-86	A011	A011TSP27	568	249	38090.0	39540.4	1450.4	48.90	2.9142	2.9524	.0382	2157.1075	17.7089	622.808	283.760	
11-22-86	A011	A011TSP28	568	265	39540.4	40989.7	1449.3	50.20	2.7990	2.8746	.0756	2243.7809	33.6931	625.907	277.030	
11-28-86	A011	A011TSP29	568	278	40989.7	42440.3	1450.6	49.70	2.6757	2.7347	.059	2206.4387	26.7399	629.285	282.970	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 26.3355																
12-04-86	A011	A011TSP30	568	288	42440.3	43893.3	1453	51.00	2.6751	2.8860	.2109	2323.3067	90.7758	631.266	270.110	
12-10-86	A011	A011TSP31	568	295	43893.3	45346.9	1453.6	53.80	2.7020	2.7953	.0933	2472.5216	37.7348	628.658	264.095	
12-16-86	A011	A011TSP32	568	310	45346.9	46799.9	1453	52.50	2.6699	2.8539	.184	2361.6906	77.9103	630.301	276.460	
12-22-86	A011	A011TSP33	568	319	46941.8	48396.2	1454.4	57.80	2.6925	2.8892	.1967	2633.0667	74.7038	629.539	275.290	
12-28-86	A011	A011TSP34	568	328	48396.2	49851.7	1455.5	43.50	2.6746	2.7649	.0903	1948.0293	46.3545	630.174	274.200	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 62.1081																
01-03-87	A011	A011TSP35	568	334	49851.7	51306.2	1454.5	43.60	2.8671	2.9278	.0607	1942.4885	31.2486	627.456	275.370	
01-09-87	A011	A011TSP36	568	357	51306.2	52760.4	1454.2	44.50	2.7845	2.8743	.0898	1999.3342	44.915	627.761	272.000	
01-15-87	A011	A011TSP37	568	368	52760.5	54214.0	1453.5	44.50	2.8362	2.9260	.0298	2025.11	14.7152	627.329	265.210	
01-21-87	A011	A011TSP38	——	——	——	——	——	——	——	——	——	——	——	——	——	No final weight
01-27-87	A011	A011TSP39	568	390	55667.5	57119.7	1452.2	42.60	2.9143	2.9666	.0523	1862.014	28.0879	626.821	283.080	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 27.598																
02-02-87	A011	A011TSP40	568	402	57119.7	58571.3	1451.6	42.50	2.8139	2.8800	.0661	1843.7043	35.8517	622.808	284.865	
02-08-87	A011	A011TSP41	568	415	58576.3	60023.7	1447.4	48.10	2.8308	2.9137	.0829	2143.7142	38.6712	631.698	278.565	
02-14-87	A011	A011TSP42	568	425	60023.7	61476.0	1452.3	43.50	2.8240	2.8650	.041	1917.4993	21.382	620.014	276.630	
02-20-87	A011	A011TSP43	568	433	61476.0	62929.1	1453.1	44.80	2.8299	2.9004	.0705	2017.1558	34.9502	628.650	271.195	
02-26-87	A011	A011TSP44	568	447	62929.1	64381.4	1452.3	43.80	2.8128	2.8362	.0234	1967.4888	11.8933	623.062	268.765	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 26.1903																
03-04-87	A011	A011TSP45	568	458	64381.4	65834.1	1452.7	42.90	2.8123	2.8997	.0874	1888.1764	46.288	633.222	282.840	
03-10-87	A011	A011TSP46	568	464	65834.1	67287.5	1453.4	40.30	2.8223	2.9038	.0815	1787.3053	45.5994	629.158	274.555	
03-16-87	A011	A011TSP47	568	483	67287.5	68741.0	1453.5	40.80	2.7990	2.8119	.0129	1796.2615	7.1816	620.014	274.825	
03-22-87	A011	A011TSP48	568	490	68741.0	70193.8	1452.8	42.50	2.7806	2.7948	.0142	1858.8246	7.6392	620.268	279.900	
03-28-87	A011	A011TSP49	——	——	——	——	——	——	——	——	——	——	——	——	——	EQUIPMENT FAILURE
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 18.4469																
04-03-87	A011	A011TSP50	568	519	71647.5	73100.4	1452.9	41.50	2.7859	2.8455	.0596	1826.4301	32.632	628.320	279.260	
04-09-87	A011	A011TSP51	568	530	73100.4	74552.8	1452.4	41.40	2.8412	2.9174	.0762	1806.6785	42.1768	625.805	282.205	
04-15-87	A011	A011TSP52	568	541	74552.8	76006.0	1453.2	40.80	2.8035	2.8774	.0739	1753.0614	42.1068	627.431	290.080	
04-21-87	A011	A011TSP53	568	549	76006.0	77459.8	1453.8	42.30	2.8461	2.8994	.0533	1838.646	28.9887	635.457	290.185	
04-27-87	A011	A011TSP54	568	564	77459.8	78911.8	1452	41.10	2.8364	2.9349	.0985	1789.2244	55.0518	635.838	287.520	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 39.1935																
05-03-87	A011	A011TSP55	568	575	78911.9	80363.5	1451.6	43.0	2.8008	2.8148	.014	1890.688	7.4047	628.904	281.14	
05-09-87	A011	A011TSP56	568	586	80363.5	81814.6	1451.1	40.6	2.7695	2.8313	.0618	1740.0487	35.5162	627.253	290.94	
05-15-87	A011	A011TSP57	568	597	81814.8	83266.0	1451.2	40.9	2.7979	2.9080	.1101	1744.0571	63.1287	629.285	295.005	
05-21-87	A011	A011TSP58	568	606	83266.0	84718.6	1452.6	41.2	2.8528	2.8629	.0101	1802.343	5.6038	628.523	282.01	
05-27-87	A011	A011TSP59	568	619	84718.6	86169.3	1450.7	41.5	2.7724	2.8327	.0603	1788.9451	33.707	622.173	286.455	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 19.9193																
06-02-87	A011	A011TSP60	568	631	86169.3	87620.4	1451.1	40.5	2.6789	2.7616	.0827	1745.2164	47.3867	629.666	289.05	
06-08-87	A011	A011TSP61	568	641	87620.4	89071.2	1450.8	40.0	2.8728	2.9468	.074	1717.6901	43.0811	630.386	290.495	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 45.1826																

ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 33.5006

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DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
06-13-86	A012	A012TSP1	580	2	1460.7	2884.3	1423.6	39.00	2.9299	3.0074	.0775	1636.0181	47.3711	629.920	288.730	
06-19-86	A012	A012TSP2	580	21	2884.3	4308.7	1424.4	39.00	2.9438	3.0082	.0644	1613.1389	39.9222	627.634	296.320	
06-25-86	A012	A012TSP3	580	26	4308.8	5732.7	1423.9	38.50	2.8930	2.9764	.0834	1611.7148	51.7461	627.338	288.945	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 46.0824																
07-01-86	A012	A012TSP4	580	36	5732.7	7156.0	1423.3	39.79	2.9070	2.9968	.0898	1636.8659	54.2183	630.089	293.125	
07-07-86	A012	A012TSP5	580	46	7156.0	8579.2	1423.2	39.47	2.9043	2.9505	.0462	1642.7038	28.1244	631.266	293.765	
07-13-86	A012	A012TSP6	580	57	8579.2	10002.0	1422.8	39.24	2.9568	3.0192	.0924	1625.1733	56.8535	628.320	295.160	
07-19-86	A012	A012TSP7	580	66	10002.0	11427.1	1425.1	39.32	2.9003	2.9463	.046	1650.6623	27.8676	634.704	291.060	
07-25-86	A012	A012TSP8	580	69	11427.1	12851.3	1424.2	38.73	2.9220	2.9758	.0538	1614.264	33.3217	631.190	293.280	
07-31-86	A012	A012TSP9	580	91	12851.3	14275.0	1423.7	38.75	2.9282	3.0527	.1245	1615.4694	77.0674	630.301	292.630	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 42.8663																
08-06-86	A012	A012TSP10	580	98	14275.0	15698.6	1423.6	39.02	2.8994	2.9802	.0808	1615.7084	50.009	628.396	295.635	
08-12-86	A012	A012TSP11	580	105	15698.5	17121.7	1423.2	40.00	2.9325	3.0042	.0717	1660.9529	43.168	628.100	293.570	
08-18-86	A012	A012TSP12	580	111	17121.7	18544.3	1422.6	42.42	2.8891	2.9782	.0891	1750.0818	50.9119	631.910	298.645	
08-24-86	A012	A012TSP13	580	125	18544.3	19966.2	1421.9	43.46	2.9274	2.9657	.0383	1800.6571	21.27	628.472	294.050	
08-30-86	A012	A012TSP14	580	137	19966.2	21390.0	1423.8	44.38	2.8959	2.9805	.0846	1845.8427	45.8327	628.320	292.390	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 40.364																
09-05-86	A012	A012TSP15	580	135	21390.0	22813.5	1423.5	44.73	2.8928	2.9794	.0866	1863.113	46.4315	630.000	291.515	
09-11-86	A012	A012TSP16	580	151	22813.5	24237.4	1423.9	44.85	2.9231	2.9788	.0557	1881.0167	29.6116	628.520	287.590	
09-17-86	A012	A012TSP17	580	148	24237.4	25660.3	1422.9	44.40	2.9270	3.0115	.0845	1847.256	45.7435	626.491	290.980	
09-23-86	A012	A012TSP18	580	157	25660.3	27084.0	1423.7	44.30	2.9026	2.9706	.068	1847.7612	36.8013	625.433	289.350	
09-29-86	A012	A012TSP19	580	181	27084.0	28507.0	1423	45.80	2.9197	2.9655	.0458	1926.7582	23.7705	627.329	284.810	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 35.3266																
10-05-86	A012	A012TSP20	580	177	28507.0	29930.6	1423.6	46.70	2.9008	2.9316	.0308	1981.3506	15.545	632.841	282.590	
10-11-86	A012	A012TSP21	580	188	29930.6	31353.8	1423.2	48.70	2.8885	2.9081	.0196	2102.9571	9.3202	630.758	271.490	
10-17-86	A012	A012TSP22	580	199	31353.8	32778.0	1424.2	47.60	2.7212	2.7728	.0516	1997.914	25.8269	628.777	287.090	
10-23-86	A012	A012TSP23	580	209	33780.4	35203.0	1422.6	48.00	2.7246	2.7723	.0477	2040.7184	23.3741	631.360	280.235	
10-29-86	A012	A012TSP24	580	220	35203.0	36628.0	1425	47.60	2.7681	2.8607	.0926	2016.4071	45.9233	631.952	283.550	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 20.9301																
11-04-86	A012	A012TSP25	580	231	36628.0	38051.3	1423.3	51.80	2.7119	2.7749	.063	2202.3037	28.6064	629.920	279.540	
11-10-86	A012	A012TSP26	580	241	38051.2	39475.2	1424	50.30	2.7556	2.7996	.044	2193.2008	20.0073	630.428	264.810	
11-16-86	A012	A012TSP27	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
11-22-86	A012	A012TSP28	580	266	40584.3	42008.1	1423.8	48.70	2.8002	2.8627	.0625	2074.9001	30.1219	625.907	277.030	
11-28-86	A012	A012TSP29	580	276	42008.1	43432.1	1424	47.90	2.6707	2.7111	.0404	2025.3972	19.9467	629.285	282.970	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 24.2139																
12-04-86	A012	A012TSP30	580	289	43432.1	44856.0	1423.9	49.90	2.6809	2.8438	.1629	2129.5716	76.4943	631.266	270.110	
12-10-86	A012	A012TSP31	580	297	44856.0	46280.3	1424.3	49.50	2.6995	2.7705	.071	2132.622	33.2984	628.658	264.095	
12-16-86	A012	A012TSP32	580	311	46280.4	47704.2	1423.8	48.00	2.6714	2.8150	.1436	2022.3296	71.0072	630.301	276.460	
12-22-86	A012	A012TSP33	580	318	47734.1	49158.1	1424	55.40	2.6300	2.8388	.1488	2466.9787	60.3167	629.539	275.290	
12-28-86	A012	A012TSP34	580	329	49158.1	50582.4	1424.3	45.80	2.6800	2.7567	.0767	1994.571	38.4544	630.174	274.720	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 53.0312																
01-03-87	A012	A012TSP35	580	335	50582.4	52006.5	1424.1	44.80	2.8461	2.8991	.053	1958.6015	26.9227	627.436	275.370	
01-09-87	A012	A012TSP36	580	358	52006.5	53429.3	1422.8	45.30	2.7919	2.8692	.0773	2012.989	38.4006	627.761	272.000	

TSP DATA 29 JUL 1988

DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
01-15-87	A012	A012TSP37	580	369	53429.3	54851.9	1422.6	44.50	2.8931	2.9198	.0267	1991.6519	13.406	627.329	265.210	
01-21-87	A012	A012TSP38	580	380	54851.9	56275.5	1423.6	44.10	2.9280	2.9962	.0682	1953.9195	34.9042	626.086	269.830	
01-27-87	A012	A012TSP39	580	391	56275.5	57698.4	1422.9	43.10	2.9168	2.9665	.0497	1859.2852	26.7307	626.821	283.080	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 26.4441																
02-02-87	A012	A012TSP40	580	403	57698.4	59120.0	1421.6	44.20	2.8156	2.8736	.058	1895.1857	30.6039	622.808	284.1	
02-08-87	A012	A012TSP41	580	416	59120.0	60542.5	1422.5	44.50	2.8299	2.9049	.075	1947.4648	38.5116	631.698	278.[illegible]	
02-14-87	A012	A012TSP42	580	426	60542.5	61965.5	1423	44.70	2.8120	2.8534	.0414	1945.3298	21.2617	620.014	276.630	
02-20-87	A012	A012TSP43	580	431	61965.5	63388.5	1423	45.70	2.8266	2.8814	.0548	2027.337	27.0305	628.630	271.195	
02-26-87	A012	A012TSP44	580	445	63388.5	64811.8	1423.3	45.20	2.8279	2.8510	.0231	2004.3563	11.5249	623.062	258.785	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 23.9097																
03-04-87	A012	A012TSP45	580	459	64811.8	66234.3	1422.5	44.30	2.8260	2.9068	.0808	1925.0363	41.9732	633.222	282.840	
03-10-87	A012	A012TSP46	580	469	66234.3	67658.3	1424	47.30	2.8092	2.8783	.0691	2091.1991	33.0432	629.158	274.555	
03-16-87	A012	A012TSP47	580	484	67658.3	68932.0	1273.7	45.70	2.7779	2.7895	.0116	1788.7505	6.485	620.014	274.825	
03-22-87	A012	A012TSP48	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
03-28-87	A012	A012TSP49	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 20.7964																
04-03-87	A012	A012TSP50	580	520	70506.0	71930.2	1424.2	45.60	2.7776	2.8222	.0446	1992.6186	22.3825	628.320	273.260	
04-09-87	A012	A012TSP51	580	531	71930.2	73354.8	1424.6	45.30	2.8299	2.8975	.0676	1964.1257	34.4173	625.805	282.205	
04-15-87	A012	A012TSP52	580	542	73352.8	74778.6	1425.8	44.40	2.8087	2.8857	.077	1899.0521	40.5465	627.431	290.080	
04-21-87	A012	A012TSP53	580	547	74778.6	76202.5	1423.9	46.20	2.8382	2.8886	.0504	1991.2107	25.3112	635.457	290.185	
04-27-87	A012	A012TSP54	580	565	76202.5	77626.5	1424	44.60	2.7921	2.8608	.0687	1928.3044	35.6272	635.830	287.520	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 30.8992																
05-03-87	A012	A012TSP55	580	576	77626.5	79050.6	1424.1	46.2	2.7764	2.7901	.0137	2014.0832	6.8021	628.904	281.14	
05-09-87	A012	A012TSP56	580	587	79050.6	80474.6	1424	44.3	2.7653	2.8278	.0625	1888.8562	33.0888	627.253	290.94	
05-15-87	A012	A012TSP57	580	598	80474.6	81898.6	1424	43.6	2.7799	2.8403	.0604	1846.6478	32.7079	623.285	295.005	
05-21-87	A012	A012TSP58	580	604	81898.6	83322.7	1424.1	44.9	2.8068	2.8181	.0113	1950.2421	5.7942	628.523	282.01	
05-27-87	A012	A012TSP59	580	620	83322.7	84747.4	1424.7	45.3	2.7461	2.8067	.0606	1942.7441	31.193	622.173	286.455	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 16.7805																
06-02-87	A012	A012TSP60	580	632	84747.4	86171.5	1424.1	44.8	2.6747	2.7611	.0864	1922.192	44.9487	629.666	289.05	
06-08-87	A012	A012TSP61	580	642	86171.5	87595.6	1424.1	43.8	2.8218	2.9004	.0786	1872.8028	41.9692	630.386	290.455	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 43.4334																
ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 30.797																
10-29-86	A09X	A09XTSP24	569	217	8398.3	9856.9	1458.6	45.60	2.7484	2.8416	.0932	2097.1633	44.441	631.932	283.530	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 44.441																
11-04-86	A09X	A09XTSP25	569	229	7282.6	8734.1	1451.5	43.80	2.7247	2.7926	.0679	2039.3835	33.2911	629.920	279.540	
11-10-86	A09X	A09XTSP26	569	240	8734.1	10188.1	1454	47.90	2.7404	2.7892	.0488	2038.4178	23.7075	630.488	264.810	
11-16-86	A09X	A09XTSP27	569	253	10188.1	11640.3	1452.2	43.70	2.9086	2.9415	.0329	1933.354	17.0153	622.808	283.760	
11-22-86	A09X	A09XTSP28	569	262	11640.3	13093.8	1453.5	46.20	2.9388	2.9959	.0571	1969.6144	28.9904	625.987	277.030	
11-28-86	A09X	A09XTSP29	569	267	13093.8	14549.3	1455.5	45.90	2.7927	2.8482	.0555	1952.6594	28.4288	629.285	282.970	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 23.6327																
12-04-86	A09X	A09XTSP30	569	286	14549.3	16004.2	1454.9	47.30	2.6889	2.8580	.1691	2088.1341	83.3771	631.286	270.110	
12-10-86	A09X	A09XTSP31	569	299	16004.2	17458.8	1454.6	50.00	2.7112	2.7868	.0756	2123.1877	35.6068	628.638	264.095	

TSP DATA 29 JUL 1988

DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	PRESSURE...	TEMP.....	COMMENTS.....
12-16-86	RD9X	RD9XTSP32	569	308	17458.8	18912.9	1454.1	49.00	2.6744	2.8312	.1568	2060.1324	76.1116	630.301	276.460	
12-22-86	RD9X	RD9XTSP33	569	317	18964.4	20417.7	1453.3	54.80	2.6956	2.8495	.1539	2336.0003	65.8818	629.539	273.290	
12-28-86	RD9X	RD9XTSP34	569	333	20417.7	21871.6	1453.9	44.60	2.8740	2.9528	.0788	1918.2289	46.2927	630.174	274.720	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 58.5682																
01-03-87	RD9X	RD9XTSP35	569	346	21871.6	23325.5	1453.9	45.00	2.8829	2.9414	.0585	1928.5703	30.3334	627.456	275.370	
01-09-87	RD9X	RD9XTSP36	569	354	23325.9	24779.6	1453.7	46.00	2.7845	2.8787	.0942	1981.7389	47.534	627.761	272.000	
01-15-87	RD9X	RD9XTSP37	569	366	24779.6	26233.6	1454	45.70	2.9115	2.9386	.0271	1953.168	13.5964	527.329	265.210	
01-21-87	RD9X	RD9XTSP38	569	377	26233.6	27688.1	1454.5	45.90	2.9094	2.9853	.0759	1983.6797	38.2622	626.065	269.830	
01-27-87	RD9X	RD9XTSP39	569	388	27688.1	29141.1	1453	43.80	2.8944	2.9492	.0548	1852.2346	29.5839	626.821	283.080	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 29.4606																
02-02-87	RD9X	RD9XTSP40	569	400	29141.1	30594.1	1453	43.30	2.9107	2.9774	.0667	1820.7643	36.633	622.808	284.865	
02-08-87	RD9X	RD9XTSP41	569	413	30594.1	32048.3	1454.2	44.60	2.8062	2.8807	.0745	1908.0524	39.0451	631.698	278.565	
02-14-87	RD9X	RD9XTSP42	569	423	32048.3	33502.5	1454.2	44.20	2.8198	2.8619	.0421	1880.9736	22.382	620.014	276.630	
02-20-87	RD9X	RD9XTSP43	569	428	33502.5	34956.6	1454.1	45.10	2.8158	2.8797	.0639	1949.0148	32.7858	628.650	271.195	
02-26-87	RD9X	RD9XTSP44	569	438	34956.6	36411.0	1454.4	44.60	2.8176	2.8543	.0367	1928.6704	19.0287	623.062	268.765	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 28.846																
03-04-87	RD9X	RD9XTSP45	569	455	36411.0	37865.9	1454.9	43.00	2.8160	2.9000	.084	1831.7569	45.8576	633.222	282.840	
03-10-87	RD9X	RD9XTSP46	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
03-16-87	RD9X	RD9XTSP47	569	480	39320.6	40774.8	1454.2	43.10	2.7761	2.7883	.0122	1841.7378	6.6242	620.014	274.825	
03-22-87	RD9X	RD9XTSP48	569	493	40774.8	42229.3	1454.5	44.30	2.8091	2.8278	.0187	1875.2004	9.9723	620.268	279.900	
03-28-87	RD9X	RD9XTSP49	569	486	42229.3	43683.7	1454.4	44.70	2.7974	2.8189	.0215	1914.8947	11.2278	625.920	277.039	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 13.5802																
04-03-87	RD9X	RD9XTSP50	569	510	43683.7	45139.9	1456.2	43.30	2.7844	2.8369	.0525	1858.3035	28.2516	628.289	279.260	
04-09-87	RD9X	RD9XTSP51	569	523	45139.9	46593.8	1453.9	43.30	2.8164	2.8732	.0568	1834.3447	30.9647	625.805	282.205	
04-15-87	RD9X	RD9XTSP52	——	——	——	——	——	——	——	——	——	——	——	——	——	Equipment failure
04-21-87	RD9X	RD9XTSP53	569	553	49502.5	50959.2	1456.7	43.00	2.8116	2.8711	.0595	1814.6495	32.7887	635.457	290.185	
04-27-87	RD9X	RD9XTSP54	569	562	50959.2	52414.7	1455.5	43.20	2.8491	2.9108	.0617	1829.867	33.7183	635.830	287.520	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 31.3559																
05-03-87	RD9X	RD9XTSP55	569	573	52414.7	53869.5	1454.8	43.8	2.7578	2.7730	.0152	1863.6379	8.1561	628.904	281.14	
05-09-87	RD9X	RD9XTSP56	569	584	53869.5	55326.4	1516.9	42.4	2.7915	2.8484	.0569	1850.4886	30.7496	627.253	290.94	
05-15-87	RD9X	RD9XTSP57	——	——	——	——	——	——	——	——	——	——	——	——	——	EQUIPMENT FAILURE
05-21-87	RD9X	RD9XTSP58	569	600	59747.9	61204.3	1456.4	42.9	2.8000	2.8138	.0138	1825.3907	7.5592	628.523	282.01	
05-27-87	RD9X	RD9XTSP59	569	617	61204.3	62659.2	1454.9	42.4	2.8469	2.9058	.0589	1781.1114	33.0692	622.173	286.435	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 15.8235																
06-02-87	RD9X	RD9XTSP60	569	629	62659.2	64113.0	1453.8	41.2	3.0588	3.1406	.0818	1733.8842	47.1773	629.666	289.05	
06-08-87	RD9X	RD9XTSP61	569	638	63576.1	67017.8	1441.7	43.4	2.7685	2.8459	.0774	1804.1217	42.9018	630.386	290.495	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 44.9888																

ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 29.3518

APPENDIX B.2
PM-10 DATA

FR DATA 29 JUL 1988

DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	START.MIN....	STOP.MIN.....	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	COL.EV.....	BASE.COL...	COMMENT.....
07-01-86	A02	A02PM4	582	11	8622.6	10062.6	1440	36.05	4.1364	4.2018	.0654	1470.1478	44.4853			
07-07-86	A02	A02PM5	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
07-13-86	A02	A02PM6	582	13	11743.2	13184.4	1441.2	36.05	4.2046	4.2613	.0567	1471.373	38.5354			
07-19-86	A02	A02PM7	582	17	13258.8	14698.8	1440	36.05	4.1932	4.2113	.0181	1470.1478	12.3117			
07-25-86	A02	A02PM8	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
07-31-86	A02	A02PM9	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 27.6353																
08-06-86	A02	A02PM10	582	21	16136.4	17576.4	1440	36.05	4.2519	4.3134	.0615	1470.1478	35.0385			
08-12-86	A02	A02PM11	582	24	17656.2	19096.2	1440	36.05	4.2789	4.3269	.048	1470.1478	32.6478			
08-18-86	A02	A02PM12	582	25	19156.2	20598	1441.8	36.05	4.2578	4.3249	.0671	1471.9855	38.7911			
08-24-86	A02	A02PM13	582	27	20754.6	22194.6	1440	40.00	4.2894	4.3186	.0292	1631.232	17.9006			
08-30-86	A02	A02PM14	582	30	22292.4	23732.4	1440	40.00	4.3106	4.3648	.0542	1631.232	33.2264			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 30.4987																
09-05-86	A02	A02PM15	582	29	23760	25199.4	1439.4	40.00	4.2079	4.2703	.0624	1630.5523	38.2592			
09-11-86	A02	A02PM16	582	32	25320	26760.6	1440.6	40.00	4.1755	4.2161	.0406	1631.9117	24.8788			
09-17-86	A02	A02PM17	582	34	26831.4	28271.4	1440	40.00	4.2020	4.2550	.053	1631.232	32.4908			
09-23-86	A02	A02PM18	582	36	28542	29982	1440	40.00	4.2876	4.3452	.0576	1631.232	35.3107			
09-29-86	A02	A02PM19	582	38	30083.4	31523.4	1440	40.00	4.1544	4.1753	.0209	1631.232	12.8184			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 26.8655																
10-05-86	A02	A02PM20	582	40	31636.8	33076.8	1440	40.00	4.2773	4.3036	.0263	1631.232	16.1288			
10-11-86	A02	A02PM21	582	42	33078	34518.6	1440.6	40.00	4.2845	4.2385	.014	1631.9117	8.5789			
10-17-86	A02	A02PM22	582	45	34519.2	35959.2	1440	40.00	4.1696	4.2028	.0332	1631.232	20.3527			
10-23-86	A02	A02PM23	582	46	36956.4	38396.4	1440	40.00	4.1247	4.1722	.0475	1631.232	29.1191			
10-29-86	A02	A02PM24	582	48	39364.8	40805.4	1440.6	40.00	3.9999	4.0736	.0737	1631.9117	45.1618			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 20.5915																
11-04-86	A02	A02PM25	582	51	40805.4	42245.4	1440	40.00	3.9293	3.9956	.0663	1631.232	40.6441			
11-10-86	A02	A02PM26	582	54	42254.4	43694.4	1440	40.00	4.0629	4.0983	.0354	1631.232	21.7014			
11-16-86	A02	A02PM27	582	57	43710	45142.8	1432.8	40.00	4.1780	4.2258	.0478	1623.0738	29.4503			
11-22-86	A02	A02PM28	582	59	45231	46671.6	1440.6	40.00	4.0569	4.0925	.0356	1631.9117	21.8149			
11-28-86	A02	A02PM29	582	62	46671.6	48112.2	1440.6	40.00	4.1167	4.2041	.0874	1631.9117	53.5368			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 31.3638																
12-04-86	A02	A02PM30	582	63	48112.2	49552.2	1440	40.00	4.1643	4.3168	.1525	1631.232	93.4876			
12-10-86	A02	A02PM31	582	65	49552.2	50992.2	1440	40.00	4.1788	4.2540	.0752	1631.232	46.1001			
12-16-86	A02	A02PM32	582	68	51031.8	52471.8	1440	40.00	4.2519	4.3788	.1269	1631.232	77.794			
12-22-86	A02	A02PM33	582	69	52471.8	53911.8	1440	40.00	4.2821	4.3934	.1113	1631.232	68.2306			
12-28-86	A02	A02PM34	582	72	53911.8	55351.8	1440	40.00	4.1813	4.2513	.07	1631.232	42.9184			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 62.8627																
01-03-87	A02	A02PM35	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
01-09-87	A02	A02PM36	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
01-15-87	A02	A02PM37	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
01-21-87	A02	A02PM38	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
01-27-87	A02	A02PM39	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
02-02-87	A02	A02PM40	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
02-08-87	A02	A02PM41	——	——	——	——	——	——	——	——	——	——	——			Equipment failure

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DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	START.MIN....	STOP.MIN.....	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	CON.DV.....	DATE.CH....	COMMENTS.....
02-14-87	A02	A02PM42	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
02-20-87	A02	A02PM43	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
02-26-87	A02	A02PM44	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
03-03-87	A02	A02PM45	864	87	53654.8	57094.8	1440	40.00	4.2041	4.2713	.0672	1631.232	41.1939			
03-10-87	A02	A02PM46	864	91	57163.2	58603.2	1440	40.00	4.2349	4.3026	.0677	1631.232	41.5024			
03-16-87	A02	A02PM47	864	93	58603.8	60046.8	1443	40.00	4.2171	4.2275	.0104	1634.6304	6.3623			
03-22-87	A02	A02PM48	864	96	60098.4	61538.4	1440	40.00	4.1303	4.1465	.0162	1631.232	9.9311			
03-28-87	A02	A02PM49	—	—	—	—	—	—	—	—	—	—	—			EQUIPMENT FAILURE
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 18.1293																
04-03-87	A02	A02PM50	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
04-09-87	A02	A02PM51	—	—	—	—	—	—	—	—	—	—	—			EQUIPMENT FAILURE
04-15-87	A02	A02PM52	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
04-21-87	A02	A02PM53	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
04-27-87	A02	A02PM54	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
05-03-87	A02	A02PM55	—	—	—	—	—	—	—	—	—	—	—			EQUIPMENT FAILURE
05-09-87	A02	A02PM56	—	—	—	—	—	—	—	—	—	—	—			EQUIPMENT FAILURE
05-15-87	A02	A02PM57	—	—	—	—	—	—	—	—	—	—	—			EQUIPMENT FAILURE
05-21-87	A02	A02PM58	—	—	—	—	—	—	—	—	—	—	—			EQUIPMENT FAILURE
05-27-87	A02	A02PM59	—	—	—	—	—	—	—	—	—	—	—			EQUIPMENT FAILURE
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
06-02-87	A02	A02PM60	1	118	19325.2	20965.2	1440	40.0	4.2856	4.3506	.065	1631.232	39.8472			
06-08-87	A02	A02PM61	1	121	20965.2	22405.2	1440	40.0	4.4316	4.5158	.0842	1631.232	51.6174			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 45.3521																
ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 30.5354																
07-01-86	A05	A05PM4	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
07-07-86	A05	A05PM5	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
07-13-86	A05	A05PM6	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
07-19-86	A05	A05PM7	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
07-25-86	A05	A05PM8	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
07-31-86	A05	A05PM9	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
08-06-86	A05	A05PM10	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
08-12-86	A05	A05PM11	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
08-18-86	A05	A05PM12	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
08-24-86	A05	A05PM13	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
08-30-86	A05	A05PM14	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
09-05-86	A05	A05PM15	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
09-11-86	A05	A05PM16	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
09-17-86	A05	A05PM17	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
09-23-86	A05	A05PM18	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
09-29-86	A05	A05PM19	—	—	—	—	—	—	—	—	—	—	—			Equipment failure

PM DATA 29 JUL 1988

DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	START.MIN....	STOP.MIN.....	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	CAL.DV.....	DATE.CH...	COMMENTS.....
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																
10-05-86	A05	A05PM20	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
10-11-86	A05	A05PM21	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
10-17-86	A05	A05PM22	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
10-23-86	A05	A05PM23	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
10-29-86	A05	A05PM24	583	49	6175.8	7617	1441.2	40.00	4.0458	4.1121	.0663	1632.5914	40.6103			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 40.6103																
11-04-86	A05	A05PM25	583	52	7618.2	9059.4	1441.2	40.00	4.0072	4.0648	.0576	1632.5914	35.2813			
11-10-86	A05	A05PM26	583	56	9060.6	10500.6	1440	40.00	4.1194	4.1498	.0304	1631.232	18.6362			
11-16-86	A05	A05PM27	583	58	11312.4	12752.4	1440	40.00	4.1792	4.2278	.0486	1631.232	29.7934			
11-22-86	A05	A05PM28	583	60	12837.6	14278.8	1441.2	40.00	4.1129	4.1454	.0325	1632.5914	19.907			
11-28-86	A05	A05PM29	583	61	14278.8	15721.8	1443	40.00	4.1894	4.2509	.0615	1634.6304	37.6232			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 27.1205																
12-04-86	A05	A05PM30	583	64	15721.8	17161.8	1440	40.00	4.1427	4.2893	.1466	1631.232	89.8707			
12-10-86	A05	A05PM31	583	66	17161.8	18601.8	1440	40.00	4.2009	4.2632	.0623	1631.232	38.192			
12-16-86	A05	A05PM32	583	67	18620.4	20060.4	1440	40.00	4.1787	4.2771	.0984	1631.232	60.3225			
12-22-86	A05	A05PM33	583	70	20140.8	21580.8	1440	40.00	4.2318	4.3164	.0846	1631.232	51.8626			
12-28-86	A05	A05PM34	583	71	21581.4	23021.4	1440	40.00	4.2519	4.3244	.0625	1631.232	38.3146			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 52.8272																
01-03-87	A05	A05PM35	583	73	23023.2	24463.2	1440	40.00	4.2545	4.2960	.0415	1631.232	25.4409			
01-09-87	A05	A05PM36	583	76	24463.2	25903.8	1440.6	40.00	4.1971	4.2728	.0757	1631.9117	46.3873			
01-15-87	A05	A05PM37	583	77	25904.4	27344.4	1440	40.00	4.2672	4.2907	.0235	1631.232	14.4063			
01-21-87	A05	A05PM38	583	78	27344.4	28784.4	1440	40.00	4.1463	4.1964	.0501	1631.232	30.713			
01-27-87	A05	A05PM39	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 26.8814																
02-02-87	A05	A05PM40	583	82	30042.4	31482.4	1440	40.00	4.2325	4.2564	.0439	1631.232	26.9182			
02-08-87	A05	A05PM41	583	83	31482.4	33724.8	1442.4	40.00	4.1162	4.1727	.0565	1633.9507	34.5788			
02-14-87	A05	A05PM42	583	84	33722.4	35192.4	1470	40.00	4.1212	4.1477	.0265	1663.216	15.9139			
02-20-87	A05	A05PM43	583	85	35192.4	36632.4	1440	40.00	4.1317	4.1776	.0459	1631.232	28.1382			
02-26-87	A05	A05PM44	583	86	36632.4	38072.4	1440	40.00	4.1974	4.2186	.0212	1631.232	12.9963			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 22.2193																
03-03-87	A05	A05PM45	583	88	38103.6	39543.6	1440	40.00	4.1871	4.2470	.0599	1631.232	36.7207			
03-10-87	A05	A05PM46	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
03-16-87	A05	A05PM47	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
03-22-87	A05	A05PM48	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
03-28-87	A05	A05PM49	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 36.7207																
04-03-87	A05	A05PM50	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
04-09-87	A05	A05PM51	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
04-15-87	A05	A05PM52	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
04-21-87	A05	A05PM53	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
04-27-87	A05	A05PM54	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0																

DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	START.MIN....	STOP.MIN.....	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	CAL.BY.....	DATE.CAL...	COMMENTS.....
05-03-87	A05	A05PM55	—	—	—	—	—	—	—	—	—	—	—			EQUIPMENT FAILURE
05-09-87	A05	A05PM56	—	—	—	—	—	—	—	—	—	—	—			EQUIPMENT FAILURE
05-15-87	A05	A05PM57	—	—	—	—	—	—	—	—	—	—	—			EQUIPMENT FAILURE
05-21-87	A05	A05PM58	—	—	—	—	—	—	—	—	—	—	—			EQUIPMENT FAILURE
05-27-87	A05	A05PM59	583	116	43546.8	44987.4	1440.6	40.0	4.2166	4.2583	.0417	1631.9117	25.5529			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 25.5529																
06-02-87	A05	A05PM60	—	—	—	—	—	—	—	—	—	—	—			EQUIPMENT FAILURE
06-08-87	A05	A05PM61	583	122	47956.2	49396.8	1440.6	40.0	4.4935	4.5384	.0449	1631.9117	27.5137			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 27.5137																
ANNUAL GEOMETRIC AVERAGE CONCENTRAION = 31.1967																
07-01-86	A09	A09PM4	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
07-07-86	A09	A09PM5	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
07-13-86	A09	A09PM6	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
07-19-86	A09	A09PM7	584	15	11031	12457.8	1426.8	36.05	4.1871	4.2035	.0164	1436.6715	11.2585			
07-25-86	A09	A09PM8	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
07-31-86	A09	A09PM9	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 11.2585																
08-06-86	A09	A09PM10	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
08-12-86	A09	A09PM11	584	22	15167.4	16576.8	1409.4	36.05	4.2501	4.2895	.0394	1438.9072	27.3819			
08-18-86	A09	A09PM12	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
08-24-86	A09	A09PM13	—	—	—	—	—	—	—	—	—	—	—			Power failure
08-30-86	A09	A09PM14	—	—	—	—	—	—	—	—	—	—	—			Power failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 27.3819																
09-05-86	A09	A09PM15	584	31	17533.8	18973.8	1440	36.05	4.2770	4.2894	.0124	1470.1478	8.4345			
09-11-86	A09	A09PM16	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
09-17-86	A09	A09PM17	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
09-23-86	A09	A09PM18	584	37	22560	23997	1437	36.05	4.2687	4.3143	.0456	1467.085	31.082			
09-29-86	A09	A09PM19	584	39	24399	25839	1440	36.05	4.2024	4.2225	.0201	1470.1478	13.6721			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 15.3039																
10-05-86	A09	A09PM20	584	41	25841.4	27281.4	1440	36.05	4.2293	4.2505	.021	1470.1478	14.2843			
10-11-86	A09	A09PM21	584	43	27281.4	28721.4	1440	36.05	4.3041	4.3113	.0072	1470.1478	4.8975			
10-17-86	A09	A09PM22	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
10-23-86	A09	A09PM23	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
10-29-86	A09	A09PM24	—	—	—	—	—	—	—	—	—	—	—			EQUIPMENT FAILURE
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 8.364																
11-04-86	A09	A09PM25	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
11-10-86	A09	A09PM26	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
11-16-86	A09	A09PM27	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
11-22-86	A09	A09PM28	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
11-28-86	A09	A09PM29	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
MONTHLY GEMETRIC AVERAGE CONCENTRATON = 0																
12-04-86	A09	A09PM30	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
12-10-86	A09	A09PM31	—	—	—	—	—	—	—	—	—	—	—			Equipment failure
12-16-86	A09	A09PM32	—	—	—	—	—	—	—	—	—	—	—			Equipment failure

PM DATA 29 JUL 1988

DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	START.MIN....	STOP.MIN....	ELAPS.TIME...	FLOW.....	INIT.WT....	FINAL.WT...	NET.WT.....	VOLUME.....	CONC.....	CHK.BY.....	DATE.CH...	COMMENTS.....
12-22-86	A09	A09PM33	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
12-28-86	A09	A09PM34	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
MONTHLY GEMETRIC AVERAGE CONCENTRATION = 0																
01-03-87	A09	A09PM35	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
01-09-87	A09	A09PM36	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
01-15-87	A09	A09PM37	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
01-21-87	A09	A09PM38	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
01-27-87	A09	A09PM39	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
MONTHLY GEMETRIC AVERAGE CONCENTRATION = 0																
02-02-87	A09	A09PMA0	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
02-08-87	A09	A09PMA1	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
02-14-87	A09	A09PMA2	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
02-20-87	A09	A09PMA3	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
02-26-87	A09	A09PMA4	——	——	——	——	——	——	——	——	——	——	——			Equipment failure
MONTHLY GEMETRIC AVERAGE CONCENTRATION = 0																
03-03-87	A09	A09PMA5	577	89	77580.6	79021.2	1440.6	40.00	4.2203	4.2607	.0404	1631.9117	24.7562			
03-10-87	A09	A09PMA6	577	90	79021.2	80461.2	1440	40.00	4.2945	4.3450	.0505	1631.232	30.9582			
03-16-87	A09	A09PMA7	577	95	80461.2	81828.6	1367.4	40.00	4.1000	4.1093	.0093	1548.9907	6.0039			
03-22-87	A09	A09PMA8	577	97	82547.4	83987.4	1440	40.00	4.1708	4.1906	.0198	1631.232	12.1381			
03-28-87	A09	A09PMA9	577	98	83987.4	85448.4	1461	40.00	4.1459	4.1607	.0148	1655.0208	8.9425			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 13.7943																
04-03-87	A09	A09PM50	577	100	85448.4	86908.8	1460.4	40.00	4.2556	4.2819	.0263	1654.3411	15.8976			
04-09-87	A09	A09PM51	577	102	86908.8	88365	1456.2	40.00	4.1587	4.1908	.0321	1649.5834	19.4595			
04-15-87	A09	A09PM52	104	104	88365	89805	1440	40.00	4.2254	4.2581	.0327	1631.232	20.0462			
04-21-87	A09	A09PM53	557	108	92115	93555.6	1440.6	40.00	4.2853	4.3165	.0312	1631.9117	19.1187			
04-27-87	A09	A09PM54	577	110	93556.2	94996.2	1440	40.00	4.2591	4.2893	.0302	1631.232	18.5136			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 18.5476																
05-03-87	A09	A09PM55	577	111	95030.4	96471	1440.6	40.0	4.1748	4.1847	.0099	1631.9117	6.0665			
05-09-87	A09	A09PM56	577	112	96471	97911	1440	40.0	4.2014	4.2387	.0373	1631.232	22.8662			
05-15-87	A09	A09PM57	——	——	——	——	——	——	——	——	——	——	——			EQUIPMENT FAILURE
05-21-87	A09	A09PM58	577	114	102323.4	103767	1443.6	40.0	4.2729	4.2851	.0122	1635.3101	7.4604			
05-27-87	A09	A09PM59	577	117	103767	105207.6	1440.6	40.0	4.2318	4.2673	.0355	1631.9117	21.7536			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 12.2491																
06-02-87	A09	A09PM60	577	120	105213.6	106653.6	1440	40.0	4.3148	4.3551	.0403	1631.232	24.7053			
06-08-87	A09	A09PM61	577	123	108094.2	109534.2	1440	40.0	4.3510	4.6102	.0592	1631.232	36.2916			
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 29.9432																

ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 15.7061

APPENDIX B.3
ASBESTOS DATA

PROJECT NUMBER 86927 0800
FIELD GROUP AQ1ASB

PROJECT NAME RMA TASK18
PROJECT MANAGER Z. SMITH
LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# AQ1 AQ1ASB 1	AQ1 AQ1ASB 2	AQ1 AQ1ASB 3	AQ1 AQ1ASB 4	AQ1 AQ1ASB 5	AQ1 AQ1ASB 6	AQ1 AQ1ASB 7	AQ1 AQ1ASB 8	AQ1 AQ1ASB 9	AQ1 AQ1ASB 10	AQ1 AQ1ASB 11	AQ1 AQ1ASB 12	AQ1 AQ1ASB 16	AQ1 AQ1ASB 17	AQ1 AQ1ASB 18
DATE			06/13/86	06/25/86	07/07/86	07/19/86	07/31/86	08/12/86	08/24/86	09/05/86	09/17/86	09/17/86	09/29/86	10/11/86	10/23/86	10/23/86	11/04/86
TIME			14:13	19:16	07:29	09:44	00:00	00:00	00:00	00:00	09:10	09:10	00:00	00:00	08:49	08:48	08:50
ASBESTOS	# FIBERS/C	99060 PCM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	TDTC	TDTC	<0.01

ENVIRONMENTAL SCIENCE & ENGINEERING 02/03/88 STATUS: PAGE# 2

PROJECT NUMBER 86927 0800 PROJECT NAME RMA TASK18
FIELD GROUP AQ1ASB PROJECT MANAGER Z. SMITH
LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# AQ1 AQ1ASB 19	AQ1 AQ1ASB 20	AQ1 AQ1ASB 21	AQ1 AQ1ASB 22	AQ1 AQ1ASB 23	AQ1 AQ1ASB 24	AQ1 AQ1ASB 25	AQ1 AQ1ASB 26	AQ1 AQ1ASB 27	AQ1 AQ1ASB 28	AQ1 AQ1ASB 29	AQ1 AQ1ASB 30	AQ1 AQ1ASB 31
DATE			11/16/86	11/28/86	12/10/86	12/22/86	01/03/87	01/15/87	01/27/87	02/08/87	02/20/87	03/04/87	03/16/87	03/28/87	04/09/87
TIME			09:41	09:17	09:36	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
ASBESTOS	# FIBERS/C	99060 PCM	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

ENVIRONMENTAL SCIENCE & ENGINEERING 02/03/88 STATUS: PAGE# 1

PROJECT NUMBER 86927 0800 PROJECT NAME RMA TASK18
FIELD GROUP AQ6ASB PROJECT MANAGER Z. SMITH
LAB COORDINATOR DAVE POWELL

SAMPLE ID/#

PARAMETERS	UNITS	STORET # METHOD	AQ6 AQ6ASB 1	AQ6 AQ6ASB 2	AQ6 AQ6ASB 3	AQ6 AQ6ASB 4	AQ6 AQ6ASB 5	AQ6 AQ6ASB 16	AQ6 AQ6ASB 18	AQ6 AQ6ASB 22	AQ6 AQ6ASB 23	AQ6 AQ6ASB 24	AQ6 AQ6ASB 25	AQ6 AQ6ASB 26	AQ6 AQ6ASB 27	AQ6 AQ6ASB 28	AQ6 AQ6ASB 29
DATE			06/13/86	11/16/86	07/19/86	07/31/86	11/28/86	11/04/86	12/10/86	12/22/86	01/03/87	01/15/87	01/27/87	02/08/87	02/20/87	03/04/87	03/16/87
TIME			17:58	09:25	09:20	00:00	08:54	08:28	09:16	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
ASBESTOS	# FIBERS/C	99060 PCM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PROJECT NUMBER 86927 0800
FIELD GROUP AQ6ASB

PROJECT NAME RMA TASK18
PROJECT MANAGER Z. SMITH
LAB COORDINATOR DAVE POWELL

SAMPLE ID/#

PARAMETERS	UNITS	STORET # METHOD	AQ6 AQ6ASB 30	AQ6 AQ6ASB 31
DATE			03/28/87	04/09/87
TIME			00:00	00:00
ASBESTOS	# FIBERS/C	99060 PCM	<0.01	<0.01

ENVIRONMENTAL SCIENCE & ENGINEERING 02/03/88 STATUS: PAGE# 1

PROJECT NUMBER 86927 0800 PROJECT NAME RMA TASK18
FIELD GROUP AQ8ASB PROJECT MANAGER Z. SMITH
LAB COORDINATOR DAVE POWELL

SAMPLE ID/#

PARAMETERS	UNITS	STORET # METHOD	AQ8 AQ8ASB 1	AQ8 AQ8ASB 2	AQ8 AQ8ASB 3	AQ8 AQ8ASB 4	AQ8 AQ8ASB 5	AQ8 AQ8ASB 6	AQ8 AQ8ASB 7	AQ8 AQ8ASB 8	AQ8 AQ8ASB 9	AQ8 AQ8ASB 10	AQ8 AQ8ASB 11	AQ8 AQ8ASB 12	AQ8 AQ8ASB 13	AQ8 AQ8ASB 14	AQ8 AQ8ASB 15
DATE			06/13/86	06/25/86	07/07/86	07/07/86	07/19/86	07/31/86	08/12/86	08/24/86	08/24/86	09/05/86	09/17/86	09/29/86	10/11/86	10/11/86	11/16/66
TIME			17:55	18:55	07:24	07:24	09:01	00:00	00:00	00:00	00:00	00:00	08:45	00:00	00:00	00:00	10:11
ASBESTOS	# FIBERS/C	99060 PCM	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

ENVIRONMENTAL SCIENCE & ENGINEERING 02/03/88 STATUS: PAGE# 2

PROJECT NUMBER 86927 0800 PROJECT NAME RMA TASK18
FIELD GROUP AQ8ASB PROJECT MANAGER Z. SMITH
LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# AQ8 AQ8ASB 16	AQ8 AQ8ASB 17	AQ8 AQ8ASB 18	AQ8 AQ8ASB 19	AQ8 AQ8ASB 22	AQ8 AQ8ASB 23	AQ8 AQ8ASB 24	AQ8 AQ8ASB 25	AQ8 AQ8ASB 26	AQ8 AQ8ASB 27	AQ8 AQ8ASB 28	AQ8 AQ8ASB 29	AQ8 AQ8ASB 30	AQ8 AQ8ASB 31
DATE			10/23/86	11/04/86	11/28/86	12/10/86	12/22/86	01/03/87	01/15/87	01/27/87	02/08/87	02/20/87	03/04/87	03/16/87	03/28/87	04/09/87
TIME			09:22	09:12	10:04	10:25	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
ASBESTOS	# FIBERS/C	99060 PCM	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

ENVIRONMENTAL SCIENCE & ENGINEERING 02/03/88 STATUS: PAGE# 1

PROJECT NUMBER 86927 0800
FIELD GROUP AQ12ASB

PROJECT NAME RMA TASK18
PROJECT MANAGER Z. SMITH
LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# AQ12 AQ12ASB 1	AQ12 AQ12ASB 2	AQ12 AQ12ASB 3	AQ12 AQ12ASB 4	AQ12 AQ12ASB 5	AQ12 AQ12ASB 6	AQ12 AQ12ASB 7	AQ12 AQ12ASB 8	AQ12 AQ12ASB 9	AQ12 AQ12ASB 10	AQ12 AQ12ASB 11	AQ12 AQ12ASB 12	AQ12 AQ12ASB 13	AQ12 AQ12ASB 14	AQ12 AQ12ASB 16
DATE			06/13/86	06/25/86	07/07/86	07/19/86	07/31/86	08/12/86	08/12/86	08/24/86	09/05/86	09/05/86	09/17/86	09/29/86	09/29/86	10/11/86	10/23/86
TIME			14:35	19:16	07:29	10:10	00:00	00:00	00:00	00:00	00:00	00:00	09:20	00:00	00:00	00:00	09:07
ASBESTOS	# FIBERS/C	99060 PCM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

ENVIRONMENTAL SCIENCE & ENGINEERING 02/03/88 STATUS: PAGE# 2

PROJECT NUMBER 86927 0800 PROJECT NAME RMA TASK18
FIELD GROUP AQ12ASB PROJECT MANAGER Z. SMITH
LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	AQ12 AQ12ASB 17	AQ12 AQ12ASB 18	AQ12 AQ12ASB 19	AQ12 AQ12ASB 20	AQ12 AQ12ASB 22	AQ12 AQ12ASB 23	AQ12 AQ12ASB 24	AQ12 AQ12ASB 25	AQ12 AQ12ASB 26	AQ12 AQ12ASB 27	AQ12 AQ12ASB 28	AQ12 AQ12ASB 29	AQ12 AQ12ASB 30	AQ12 AQ12ASB 31
			SAMPLE ID/#													
DATE			11/04/86	11/16/86	11/28/86	12/10/86	12/22/86	01/03/87	01/15/87	01/27/87	02/08/87	02/20/87	03/04/87	03/16/87	03/28/87	04/09/87
TIME			09:12	09:58	09:37	09:56	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
ASBESTOS	# FIBERS/C	99060 PCM	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

APPENDIX B.4
VOC DATA

ENVIRONMENTAL SCIENCE & ENGINEERING 11/24/87 STATUS: PAGE# 1

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# BF-15 E1VOC 2	BF-13 E1VOC 3	BF-12 E1VOC 4	BF-11 E1VOC 5	BF-7 E1VOC 7	BF-4 E2VOC 1	BF-7 E2VOC 2	BF-9 E2VOC 3	BF-14 E2VOC 4	BF-15 E2VOC 5
DATE			11/28/86	11/28/86	11/28/86	11/28/86	11/28/86	06/10/87	06/10/87	06/10/87	06/10/87	06/10/87
TIME			13:50	13:47	13:41	13:34	13:28	00:00	00:00	00:00	00:00	00:00
METHYLENE CHLORIDE	UG/M3	97217 C7	NA	45	NA	33	2500	<11	<11	<11	<11	<11
TRANS-1,2-DICHLOROETHYLENE	UG/M3	97218 C7	NA	<27	NA	<27	<27	<27	<27	<27	<27	<27
1,1-DICHLOROETHANE	UG/M3	97219 C7	NA	<27	NA	<27	<27	<27	<27	<27	<27	<27
CHLOROFORM	UG/M3	97220 C7	NA	<13	NA	<13	<13	<13	<13	30	<13	<13
1,2-DICHLOROETHANE	UG/M3	97221 C7	NA	<26	NA	<26	<26	<26	<26	<26	<26	<26
1,1,1-TRICHLOROETHANE	UG/M3	97222 C7	NA	<22	NA	<22	<22	<22	<22	<22	<22	<22
BENZENE	UG/M3	97223 C7	NA	<26	NA	<26	<26	<26	<26	<26	<26	<26
CARBON TETRACHLORIDE	UG/M3	97224 C7	NA	<12	NA	<12	<12	<12	<12	<12	<12	<12
TRICHLOROETHYLENE	UG/M3	97225 C7	NA	<19	NA	<19	<19	<19	<19	<19	<19	<19
BICYCLOHEPTADIENE	UG/M3	97226 C7	NA	<19	NA	<19	<19	<19	<19	<19	<19	<19
DIMETHYLDISULFIDE	UG/M3	97227 C7	NA	<22	NA	<22	<22	<22	<22	<22	<22	<22
METHYL ISOBUTYL KETONE	UG/M3	97228 C7	NA	<8	NA	<8	<8	<8	<8	<8	<8	<8
1,1,2-TRICHLOROETHANE	UG/M3	97229 C7	NA	<6	NA	<6	<6	<6	<6	<6	<6	<6
TOLUENE	UG/M3	97230 C7	NA	<7	NA	<7	<7	<7	<7	<7	<7	<7
TETRACHLOROETHYLENE	UG/M3	97231 C7	NA	<18	NA	<18	<18	<18	<18	<18	<18	<18
CHLOROBENZENE	UG/M3	97232 C7	NA	<29	NA	<29	<29	<29	<29	<29	<29	<29
ETHYLBENZENE	UG/M3	97233 C7	NA	<20	NA	<20	<20	<20	<20	<20	<20	<20
M- AND P-XYLENE	UG/M3	97234 C7	NA	<31	NA	<31	<31	<31	<31	<31	<31	<31
O-XYLENE	UG/M3	97235 C7	NA	<19	NA	<19	<19	<19	<19	<19	<19	<19
DICYCLOPENTADIENE	UG/M3	97236 C7	NA	<19	NA	<19	<19	<19	<19	<19	<19	<19

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# BF-15	BF-13	BF-12	BF-11	BF-7	BF-4	BF-7	BF-9	BF-14	BF-15
		E1VOC	E1VOC	E1VOC	E1VOC	E1VOC	E2VOC	E2VOC	E2VOC	E2VOC	E2VOC
UNITS	METHOD	2	3	4	5	7	1	2	3	4	5
DATE		11/28/86	11/28/86	11/28/86	11/28/86	11/28/86	06/10/87	06/10/87	06/10/87	06/10/87	06/10/87
TIME		13:50	13:47	13:41	13:34	13:28	00:00	00:00	00:00	00:00	00:00
DIBROMOCHLOROPROPANE	97237	NA	<40	NA	<40	<40	<40	<40	<40	<40	<40
UG/M3	C7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
CM	0										
SAMPLING TECHNIQUE	72005	K	K	K	K	K	K	K	K	K	K
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										
UNK151	93151		*OK30				100		20		200
UG/M3	36										
UNK192	93192		*OK40								
UG/M3	36										
UNK193	93193					*OK70					
UG/M3	36										
UNK120	93120						20				
UG/M3	36										
UNK124	93124						200	500		200	
UG/M3	36										
UNK149	93149						100				
UG/M3	36										
UNK148	93148							90			
UG/M3	36										
UNK061	93061								10		
UG/M3	36										
UNK073	93073								10		
UG/M3	36										
UNK125	93125								500		1000
UG/M3	36										
UNK132	93132								20		
UG/M3	36										
UNK153	93153								60		
UG/M3	36										
UNK076	93076									50	
UG/M3	36										
UNK081	93081									90	
UG/M3	36										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# BF-15 E1VOC 2	BF-13 E1VOC 3	BF-12 E1VOC 4	BF-11 E1VOC 5	BF-7 E1VOC 7	BF-4 E2VOC 1	BF-7 E2VOC 2	BF-9 E2VOC 3	BF-14 E2VOC 4	BF-15 E2VOC 5
DATE			11/28/86	11/28/86	11/28/86	11/28/86	11/28/86	06/10/87	06/10/87	06/10/87	06/10/87	06/10/87
TIME			13:50	13:47	13:41	13:34	13:28	00:00	00:00	00:00	00:00	00:00
UNK150		93150										
	UG/M3	36										
UNK071		93071										
	UG/M3	36										
UNK123		93123										
	UG/M3	36										
UNK160		93160										
	UG/M3	36										
UNK058		93058										
	UG/M3	36										
UNK152		93152										
	UG/M3	36										
UNK159		93159										
	UG/M3	36										
UNK166		93166										
	UG/M3	36										
UNK219		93219										
	UG/M3	36										
UNK074		93074										
	UG/M3	36										
UNK069		93069										
	UG/M3	36										
UNK072		93072										
	UG/M3	36										
UNK147		93147										
	UG/M3	36										
UNK167		93167										
	UG/M3	36										
UNK122		93122										
	UG/M3	36										
UNK068		93068										
	UG/M3	36										
UNK145		93145										
	UG/M3	36										
UNK092		93092										
	UG/M3	36										
UNK163		93163										
	UG/M3	36										
UNK077		93077										
	UG/M3	36										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# BF-16	BF-4	BF-5	BF-6	BF-7	BF-8	BF-14	BF-15	BF-16	BF-3
		E2VOC	E3VOC	E3VOC	E3VOC	E3VOC	E3VOC	E3VOC	E3VOC	E3VOC	E4VOC
UNITS	METHOD	6	1	2	3	4	5	6	7	8	1
DATE		06/10/87	06/22/87	06/22/87	06/22/87	06/22/87	06/22/87	06/22/87	06/22/87	06/22/87	07/02/87
TIME		00:00	14:53	14:54	14:45	14:42	14:47	14:49	14:50	14:58	00:00
METHYLENE CHLORIDE	97217	74	<11	<11	<11	<11	<11	<11	<11	<11	<11
UG/M3	C7										
TRANS-1,2-DICHLOROET	97218	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27
HYLENE UG/M3	C7										
1,1-DICHLOROETHANE	97219	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27
UG/M3	C7										
CHLOROFORM	97220	<13	<13	<13	<13	<13	<13	<13	<13	<13	<13
UG/M3	C7										
1,2-DICHLOROETHANE	97221	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26
UG/M3	C7										
1,1,1-TRICHLOROETHAN	97222	<22	<22	<22	<22	<22	<22	<22	<22	<22	<22
E UG/M3	C7										
BENZENE	97223	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26
UG/M3	C7										
CARBON TETRACHLORIDE	97224	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12
UG/M3	C7										
TRICHLOROETHYLENE	97225	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
UG/M3	C7										
BICYCLOHEPTADIENE	97226	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
UG/M3	C7										
DIMETHYLDISULFIDE	97227	<22	<22	<22	<22	<22	<22	<22	<22	<22	<22
UG/M3	C7										
METHYL ISOBUTYL KETO	97228	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
NE UG/M3	C7										
1,1,2-TRICHLOROETHAN	97229	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
E UG/M3	C7										
TOLUENE	97230	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
UG/M3	C7										
TETRACHLOROETHYLENE	97231	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
UG/M3	C7										
CHLOROBENZENE	97232	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29
UG/M3	C7										
ETHYLBENZENE	97233	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
UG/M3	C7										
M- AND P-XYLENE	97234	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31
UG/M3	C7										
O-XYLENE	97235	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
UG/M3	C7										
DICYCLOPENTADIENE	97236	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
UG/M3	C7										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# BF-16	BF-4	BF-5	BF-6	BF-7	BF-8	BF-14	BF-15	BF-16	BF-3
		E2VOC	E3VOC	E3VOC	E3VOC	E3VOC	E3VOC	E3VOC	E3VOC	E3VOC	E4VOC
UNITS	METHOD	6	1	2	3	4	5	6	7	8	1
DATE		06/10/87	06/22/87	06/22/87	06/22/87	06/22/87	06/22/87	06/22/87	06/22/87	06/22/87	07/02/87
TIME		00:00	14:53	14:54	14:45	14:42	14:47	14:49	14:50	14:58	00:00
DIBROMOCHLOROPROPANE	97237	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
UG/M3	C7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
CM	0										
SAMPLING TECHNIQUE	72005	K	K	K	K	K	K	K	K	K	K
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										
UNK151	93151	80									
UG/M3	36										
UNK192	93192										
UG/M3	36										
UNK193	93193										
UG/M3	36										
UNK120	93120										
UG/M3	36										
UNK124	93124									1000	
UG/M3	36										
UNK149	93149				10					4000	
UG/M3	36										
UNK148	93148										
UG/M3	36										
UNK061	93061	50									
UG/M3	36										
UNK073	93073										
UG/M3	36										
UNK125	93125	700									
UG/M3	36										
UNK132	93132										
UG/M3	36										
UNK153	93153										
UG/M3	36										
UNK076	93076										
UG/M3	36										
UNK081	93081										
UG/M3	36										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# BF-16 E2VOC 6	BF-4 E3VOC 1	BF-5 E3VOC 2	BF-6 E3VOC 3	BF-7 E3VOC 4	BF-8 E3VOC 5	BF-14 E3VOC 6	BF-15 E3VOC 7	BF-16 E3VOC 8	BF-3 E4VOC 1
DATE			06/10/87	06/22/87	06/22/87	06/22/87	06/22/87	06/22/87	06/22/87	06/22/87	06/22/87	07/02/87
TIME			00:00	14:53	14:54	14:45	14:42	14:47	14:49	14:50	14:58	00:00
UNK150		93150		60								
	UG/M3	36										
UNK071		93071				10		4				
	UG/M3	36										
UNK123		93123				40						
	UG/M3	36										
UNK160		93160						20				
	UG/M3	36										
UNK058		93058									40	
	UG/M3	36										
UNK152		93152									400	
	UG/M3	36										
UNK159		93159									200	
	UG/M3	36										
UNK166		93166									60	
	UG/M3	36										
UNK219		93219									80	
	UG/M3	36										
UNK074		93074										
	UG/M3	36										
UNK069		93069										
	UG/M3	36										
UNK072		93072										
	UG/M3	36										
UNK147		93147										
	UG/M3	36										
UNK167		93167										
	UG/M3	36										
UNK122		93122										
	UG/M3	36										
UNK068		93068										
	UG/M3	36										
UNK145		93145										
	UG/M3	36										
UNK092		93092										
	UG/M3	36										
UNK163		93163										
	UG/M3	36										
UNK077		93077										
	UG/M3	36										

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PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP EIVOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# BF-15	BF-13	BF-1	AQ11	BF-5	BF-4	BF-3	BF-15	AQ11	BF-16
		E4VOC	E4VOC	E4VOC	E4VOC	E4VOC	E4VOC	E5VOC	E5VOC	E5VOC	E5VOC
UNITS	METHOD	2	3	4	5	6	7	1	2	3	4
DATE		07/02/87	07/02/87	07/02/87	07/02/87	07/02/87	07/02/87	07/10/87	07/10/87	07/10/87	07/10/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
METHYLENE CHLORIDE	97217	<11	NA	NA	<11	<11	<11	<11	<11	38	23
UG/M3	C7										
TRANS-1,2-DICHLOROETHYLENE	97218	<27	NA	NA	<27	<27	<27	<27	<27	<27	<27
UG/M3	C7										
1,1-DICHLOROETHANE	97219	<27	NA	NA	<27	<27	<27	<27	<27	<27	<27
UG/M3	C7										
CHLOROFORM	97220	<13	NA	NA	<13	<13	<13	<13	<13	<13	<13
UG/M3	C7										
1,2-DICHLOROETHANE	97221	<26	NA	NA	<26	<26	<26	<26	<26	<26	<26
UG/M3	C7										
1,1,1-TRICHLOROETHANE	97222	<22	NA	NA	<22	<22	<22	<22	<22	<22	<22
UG/M3	C7										
BENZENE	97223	<26	NA	NA	<26	<26	<26	<26	<26	<26	<26
UG/M3	C7										
CARBON TETRACHLORIDE	97224	<12	NA	NA	<12	<12	<12	<12	<12	<12	<12
UG/M3	C7										
TRICHLOROETHYLENE	97225	<19	NA	NA	<19	<19	<19	<19	<19	<19	<19
UG/M3	C7										
BICYCLOHEPTADIENE	97226	<19	NA	NA	<19	<19	<19	<19	<19	<19	<19
UG/M3	C7										
DIMETHYLDISULFIDE	97227	<22	NA	NA	<22	<22	<22	<22	<22	<22	<22
UG/M3	C7										
METHYL ISOBUTYL KETONE	97228	<8	NA	NA	<8	<8	<8	<8	<8	<8	<8
UG/M3	C7										
1,1,2-TRICHLOROETHANE	97229	<6	NA	NA	<6	<6	<6	<6	<6	<6	<6
UG/M3	C7										
TOLUENE	97230	<7	NA	NA	<7	<7	<7	<7	<7	<7	<7
UG/M3	C7										
TETRACHLOROETHYLENE	97231	<18	NA	NA	<18	<18	<18	<18	<18	<18	<18
UG/M3	C7										
CHLOROBENZENE	97232	<29	NA	NA	<29	<29	<29	<29	<29	<29	<29
UG/M3	C7										
ETHYLBENZENE	97233	<20	NA	NA	<20	<20	<20	<20	<20	<20	<20
UG/M3	C7										
M- AND P-XYLENE	97234	<31	NA	NA	<31	<31	<31	<31	<31	<31	<31
UG/M3	C7										
O-XYLENE	97235	<19	NA	NA	<19	<19	<19	<19	<19	<19	<19
UG/M3	C7										
DICYCLOPENTADIENE	97236	<19	NA	NA	<19	<19	<19	<19	<19	<19	<19
UG/M3	C7										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# BF-15	BF-13	BF-1	AQ11	BF-5	BF-4	BF-3	BF-15	AQ11	BF-16
		E4VOC	E4VOC	E4VOC	E4VOC	E4VOC	E4VOC	E5VOC	E5VOC	E5VOC	E5VOC
UNITS	METHOD	2	3	4	5	6	7	1	2	3	4
DATE		07/02/87	07/02/87	07/02/87	07/02/87	07/02/87	07/02/87	07/10/87	07/10/87	07/10/87	07/10/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
DIBROMOCHLOROPROPANE	97237	<40	NA	NA	<40	<40	<40	<40	<40	<40	<40
UG/M3	C7										
SAMPLE TYPE	71999	AR	NA	NA	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	NA	NA	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-150	NA	NA	-150	-150	-150	-150	-150	-150	-150
CM	0										
SAMPLING TECHNIQUE	72005	K	NA	NA	K	K	K	K	K	K	K
	0										
INSTALLATION CODE	99720	RK	NA	NA	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										
UNK151	93151										
UG/M3	36										
UNK192	93192										
UG/M3	36										
UNK193	93193										
UG/M3	36										
UNK120	93120										
UG/M3	36										
UNK124	93124	200									
UG/M3	36										
UNK149	93149										
UG/M3	36										
UNK148	93148										
UG/M3	36										
UNK061	93061									20	
UG/M3	36										
UNK073	93073										
UG/M3	36										
UNK125	93125										
UG/M3	36										
UNK132	93132										
UG/M3	36										
UNK153	93153										
UG/M3	36										
UNK076	93076										
UG/M3	36										
UNK081	93081										
UG/M3	36										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# BF-15 E4VOC 2	BF-13 E4VOC 3	BF-1 E4VOC 4	AQ11 E4VOC 5	BF-5 E4VOC 6	BF-4 E4VOC 7	BF-3 E5VOC 1	BF-15 E5VOC 2	AQ11 E5VOC 3	BF-16 E5VOC 4
DATE			07/02/87	07/02/87	07/02/87	07/02/87	07/02/87	07/02/87	07/10/87	07/10/87	07/10/87	07/10/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
UNK150		93150										
	UG/M3	36										
UNK071		93071										
	UG/M3	36										
UNK123		93123							200	200	200	
	UG/M3	36										
UNK160		93160										
	UG/M3	36										
UNK058		93058										
	UG/M3	36										
UNK152		93152										
	UG/M3	36										
UNK159		93159										
	UG/M3	36										
UNK166		93166										
	UG/M3	36										
UNK219		93219										
	UG/M3	36										
UNK074		93074						50				
	UG/M3	36										
UNK069		93069							20			
	UG/M3	36										
UNK072		93072							20			
	UG/M3	36										
UNK147		93147							10			
	UG/M3	36										
UNK167		93167							20			
	UG/M3	36										
UNK122		93122										100
	UG/M3	36										
UNK068		93068										
	UG/M3	36										
UNK145		93145										
	UG/M3	36										
UNK092		93092										
	UG/M3	36										
UNK163		93163										
	UG/M3	36										
UNK077		93077										
	UG/M3	36										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# BF-13 E5VOC 5	BF-5 E5VOC 6	BF-8 E5VOC 7	BF-11 E5VOC 8	BF-12 E6VOC 1	BF-16 E6VOC 2	BF-14 E6VOC 3	BF-4 E6VOC 4	BF-15 E6VOC 5	BF-10 E6VOC 6
UNITS	METHOD										
DATE		07/10/87	07/10/87	07/10/87	07/10/87	07/24/87	07/24/87	07/24/87	07/24/87	07/24/87	07/24/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
METHYLENE CHLORIDE	97217	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
UG/M3	C7										
TRANS-1,2-DICHLOROETHYLENE	97218	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27
UG/M3	C7										
1,1-DICHLOROETHANE	97219	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27
UG/M3	C7										
CHLOROFORM	97220	<13	<13	<13	<13	<13	<13	<13	<13	<13	<13
UG/M3	C7										
1,2-DICHLOROETHANE	97221	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26
UG/M3	C7										
1,1,1-TRICHLOROETHANE	97222	<22	<22	<22	<22	<22	<22	<22	<22	<22	<22
UG/M3	C7										
BENZENE	97223	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26
UG/M3	C7										
CARBON TETRACHLORIDE	97224	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12
UG/M3	C7										
TRICHLOROETHYLENE	97225	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
UG/M3	C7										
BICYCLOHEPTADIENE	97226	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
UG/M3	C7										
DIMETHYLDISULFIDE	97227	<22	<22	<22	<22	<22	<22	<22	<22	<22	<22
UG/M3	C7										
METHYL ISOBUTYL KETONE	97228	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
UG/M3	C7										
1,1,2-TRICHLOROETHANE	97229	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
UG/M3	C7										
TOLUENE	97230	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
UG/M3	C7										
TETRACHLOROETHYLENE	97231	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
UG/M3	C7										
CHLOROBENZENE	97232	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29
UG/M3	C7										
ETHYLBENZENE	97233	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
UG/M3	C7										
M- AND P-XYLENE	97234	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31
UG/M3	C7										
O-XYLENE	97235	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
UG/M3	C7										
DICYCLOPENTADIENE	97236	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
UG/M3	C7										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# BF-13 E5VOC 5	BF-5 E5VOC 6	BF-8 E5VOC 7	BF-11 E5VOC 8	BF-12 E6VOC 1	BF-16 E6VOC 2	BF-14 E6VOC 3	BF-4 E6VOC 4	BF-15 E6VOC 5	BF-10 E6VOC 6
DATE			07/10/87	07/10/87	07/10/87	07/10/87	07/24/87	07/24/87	07/24/87	07/24/87	07/24/87	07/24/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
DIBROMOCHLOROPROPANE	UG/M3	97237 C7	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
SAMPLE TYPE		71999 0	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
SITE TYPE 1		99759 0	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
SAMPLE DEPTH	CM	99758 0	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
SAMPLING TECHNIQUE		72005 0	K	K	K	K	K	K	K	K	K	K
INSTALLATION CODE	SAMPLE	99720 0	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
UNK151	UG/M3	93151 36										
UNK192	UG/M3	93192 36										
UNK193	UG/M3	93193 36										
UNK120	UG/M3	93120 36										
UNK124	UG/M3	93124 36				100						
UNK149	UG/M3	93149 36										
UNK148	UG/M3	93148 36										
UNK061	UG/M3	93061 36		2000								
UNK073	UG/M3	93073 36										
UNK125	UG/M3	93125 36										
UNK132	UG/M3	93132 36										
UNK153	UG/M3	93153 36										
UNK076	UG/M3	93076 36					30					
UNK081	UG/M3	93081 36										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# BF-13 E5VOC 5	BF-5 E5VOC 6	BF-8 E5VOC 7	BF-11 E5VOC 8	BF-12 E6VOC 1	BF-16 E6VOC 2	BF-14 E6VOC 3	BF-4 E6VOC 4	BF-15 E6VOC 5	BF-10 E6VOC 6
DATE			07/10/87	07/10/87	07/10/87	07/10/87	07/24/87	07/24/87	07/24/87	07/24/87	07/24/87	07/24/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
UNK150		93150										
	UG/M3	36										
UNK071		93071				20		20				
	UG/M3	36										
UNK123		93123					200	200			40	20
	UG/M3	36										
UNK160		93160										
	UG/M3	36										
UNK058		93058										
	UG/M3	36										
UNK152		93152										
	UG/M3	36										
UNK159		93159										
	UG/M3	36										
UNK166		93166										
	UG/M3	36										
UNK219		93219										
	UG/M3	36										
UNK074		93074										
	UG/M3	36										
UNK069		93069		200								
	UG/M3	36										
UNK072		93072					20		80		80	
	UG/M3	36										
UNK147		93147										
	UG/M3	36										
UNK167		93167										
	UG/M3	36										
UNK122		93122		1000	30							
	UG/M3	36										
UNK068		93068	30			30						
	UG/M3	36										
UNK145		93145		200								
	UG/M3	36										
UNK092		93092							30	30		
	UG/M3	36										
UNK163		93163										
	UG/M3	36										
UNK077		93077										
	UG/M3	36										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# BF-13 E6VOC 7	BF-5 E6VOC 8	BF-16 E7VOC 1	BF-15 E7VOC 2	BF-13 E7VOC 3	BF-12 E7VOC 4	BF-11 E7VOC 5	BF-7 E7VOC 6	BF-5 E7VOC 7	BF-2 E7VOC 8
UNITS	METHOD										
DATE		07/24/87	07/24/87	08/05/87	08/05/87	08/05/87	08/05/87	08/05/87	08/05/87	08/05/87	08/05/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
METHYLENE CHLORIDE UG/M3	97217 C7	<11	<11	<11	22	<11	<11	<11	<11	50	70
TRANS-1,2-DICHLOROETHYLENE UG/M3	97218 C7	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27
1,1-DICHLOROETHANE UG/M3	97219 C7	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27
CHLOROFORM UG/M3	97220 C7	<13	<13	<13	<13	<13	<13	<13	<13	<13	<13
1,2-DICHLOROETHANE UG/M3	97221 C7	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26
1,1,1-TRICHLOROETHANE UG/M3	97222 C7	<22	<22	<22	<22	<22	<22	<22	<22	<22	<22
BENZENE UG/M3	97223 C7	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26
CARBON TETRACHLORIDE UG/M3	97224 C7	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12
TRICHLOROETHYLENE UG/M3	97225 C7	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
BICYCLOHEPTADIENE UG/M3	97226 C7	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
DIMETHYLDISULFIDE UG/M3	97227 C7	<22	<22	<22	<22	<22	<22	<22	<22	<22	<22
METHYL ISOBUTYL KETONE UG/M3	97228 C7	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
1,1,2-TRICHLOROETHANE UG/M3	97229 C7	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
TOLUENE UG/M3	97230 C7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
TETRACHLOROETHYLENE UG/M3	97231 C7	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
CHLOROBENZENE UG/M3	97232 C7	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29
ETHYLBENZENE UG/M3	97233 C7	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
M- AND P-XYLENE UG/M3	97234 C7	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31
O-XYLENE UG/M3	97235 C7	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
DICYCLOPENTADIENE UG/M3	97236 C7	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# BF-13 E6VOC 7	BF-5 E6VOC 8	BF-16 E7VOC 1	BF-15 E7VOC 2	BF-13 E7VOC 3	BF-12 E7VOC 4	BF-11 E7VOC 5	BF-7 E7VOC 6	BF-5 E7VOC 7	BF-2 E7VOC 8
DATE			07/24/87	07/24/87	08/05/87	08/05/87	08/05/87	08/05/87	08/05/87	08/05/87	08/05/87	08/05/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
DIBROMOCHLOROPROPANE	UG/M3	97237 C7	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
SAMPLE TYPE		71999 0	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
SITE TYPE 1		99759 0	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
SAMPLE DEPTH	CM	99758 0	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
SAMPLING TECHNIQUE		72005 0	K	K	K	K	K	K	K	K	K	K
INSTALLATION CODE	SAMPLE	99720 0	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
UNK151	UG/M3	93151 36										
UNK192	UG/M3	93192 36										
UNK193	UG/M3	93193 36										
UNK120	UG/M3	93120 36										
UNK124	UG/M3	93124 36										
UNK149	UG/M3	93149 36										
UNK148	UG/M3	93148 36										
UNK061	UG/M3	93061 36						10				
UNK073	UG/M3	93073 36										
UNK125	UG/M3	93125 36										
UNK132	UG/M3	93132 36										
UNK153	UG/M3	93153 36										
UNK076	UG/M3	93076 36										
UNK081	UG/M3	93081 36										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# BF-13 E6VOC 7	BF-5 E6VOC 8	BF-16 E7VOC 1	BF-15 E7VOC 2	BF-13 E7VOC 3	BF-12 E7VOC 4	BF-11 E7VOC 5	BF-7 E7VOC 6	BF-5 E7VOC 7	BF-2 E7VOC 8
DATE			07/24/87	07/24/87	08/05/87	08/05/87	08/05/87	08/05/87	08/05/87	08/05/87	08/05/87	08/05/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
UNK150		93150										
	UG/M3	36										
UNK071		93071	40									
	UG/M3	36										
UNK123		93123	300			20				80		30
	UG/M3	36										
UNK160		93160										
	UG/M3	36										
UNK058		93058										300
	UG/M3	36										
UNK152		93152										
	UG/M3	36										
UNK159		93159										
	UG/M3	36										
UNK166		93166										
	UG/M3	36										
UNK219		93219										
	UG/M3	36										
UNK074		93074										
	UG/M3	36										
UNK069		93069										
	UG/M3	36										
UNK072		93072			20						20	10
	UG/M3	36										
UNK147		93147										
	UG/M3	36										
UNK167		93167										
	UG/M3	36										
UNK122		93122		300								
	UG/M3	36										
UNK068		93068										
	UG/M3	36										
UNK145		93145										
	UG/M3	36										
UNK092		93092										
	UG/M3	36										
UNK163		93163				10						
	UG/M3	36										
UNK077		93077										30
	UG/M3	36										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

SAMPLE ID/#

PARAMETERS	UNITS	STORET # METHOD	BF-9 E7VOC 9
DATE			08/05/87
TIME			00:00
METHYLENE CHLORIDE	UG/M3	97217 C7	38
TRANS-1,2-DICHLOROETHYLENE	UG/M3	97218 C7	<27
1,1-DICHLOROETHANE	UG/M3	97219 C7	<27
CHLOROFORM	UG/M3	97220 C7	<13
1,2-DICHLOROETHANE	UG/M3	97221 C7	<26
1,1,1-TRICHLOROETHANE	UG/M3	97222 C7	<22
BENZENE	UG/M3	97223 C7	<26
CARBON TETRACHLORIDE	UG/M3	97224 C7	<12
TRICHLOROETHYLENE	UG/M3	97225 C7	<19
BICYCLOHEPTADIENE	UG/M3	97226 C7	<19
DIMETHYLDISULFIDE	UG/M3	97227 C7	<22
METHYL ISOBUTYL KETONE	UG/M3	97228 C7	<8
1,1,2-TRICHLOROETHANE	UG/M3	97229 C7	<6
TOLUENE	UG/M3	97230 C7	<7
TETRACHLOROETHYLENE	UG/M3	97231 C7	<18
CHLOROBENZENE	UG/M3	97232 C7	<29
ETHYLBENZENE	UG/M3	97233 C7	<20
M- AND P-XYLENE	UG/M3	97234 C7	<31
O-XYLENE	UG/M3	97235 C7	<19
DICYCLOPENTADIENE	UG/M3	97236 C7	<19

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

SAMPLE ID/#

PARAMETERS	STORET #	BF-9
		E7VOC
UNITS	METHOD	9
DATE		08/05/87
TIME		00:00
DIBROMOCHLOROPROPANE	97237	<40
UG/M3	C7	
SAMPLE TYPE	71999	AR
	0	
SITE TYPE 1	99759	ARMO
	0	
SAMPLE DEPTH	99758	-150
CM	0	
SAMPLING TECHNIQUE	72005	K
	0	
INSTALLATION CODE	99720	RK
SAMPLE	0	
UNK151	93151	
UG/M3	36	
UNK192	93192	
UG/M3	36	
UNK193	93193	
UG/M3	36	
UNK120	93120	
UG/M3	36	
UNK124	93124	
UG/M3	36	
UNK149	93149	
UG/M3	36	
UNK148	93148	
UG/M3	36	
UNK061	93061	
UG/M3	36	
UNK073	93073	
UG/M3	36	
UNK125	93125	
UG/M3	36	
UNK132	93132	
UG/M3	36	
UNK153	93153	
UG/M3	36	
UNK076	93076	
UG/M3	36	
UNK081	93081	
UG/M3	36	

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1VOC PROJECT MANAGER
EVOC LAB COORDINATOR DAVE POWELL

SAMPLE ID/#

PARAMETERS	UNITS	STORET # METHOD	BF-9 E7VOC 9
DATE			08/05/87
TIME			00:00
UNK150		93150	
	UG/M3	36	
UNK071		93071	
	UG/M3	36	
UNK123		93123	10
	UG/M3	36	
UNK160		93160	
	UG/M3	36	
UNK058		93058	
	UG/M3	36	
UNK152		93152	
	UG/M3	36	
UNK159		93159	
	UG/M3	36	
UNK166		93166	
	UG/M3	36	
UNK219		93219	
	UG/M3	36	
UNK074		93074	
	UG/M3	36	
UNK069		93069	
	UG/M3	36	
UNK072		93072	
	UG/M3	36	
UNK147		93147	
	UG/M3	36	
UNK167		93167	
	UG/M3	36	
UNK122		93122	
	UG/M3	36	
UNK068		93068	
	UG/M3	36	
UNK145		93145	
	UG/M3	36	
UNK092		93092	
	UG/M3	36	
UNK163		93163	
	UG/M3	36	
UNK077		93077	
	UG/M3	36	

APPENDIX B.5
SVOC DATA

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1SVO PROJECT MANAGER
ESVO LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# AQ9 E1SVO 1	AQ36-2 E1SVO 3	AQ36-3 E1SVO 4	AQ36-2 E2SVO 1	AQ36-3 E3SVO 1	AQ36-2 E3SVO 2	AQ36-5 E3SVO 3	AQ9 E3SVO 4	BF-4 E5SVO 1	BF-6 E5SVO 2
DATE			05/13/87	05/13/87	05/13/87	05/15/87	05/19/87	05/19/87	05/19/87	05/19/87	06/12/87	06/12/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
SAMPLE TYPE		71999 0	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
SITE TYPE 1		99759 0	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
SAMPLE DEPTH	CM	99758 0	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120
SAMPLING TECHNIQUE		72005 0	H	H	H	H	H	H	H	H	H	H
INSTALLATION CODE	SAMPLE	99720 0	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
DIELDRIN	UG/M3	97253 D7	<0.018	<0.018	0.031	<0.018	<0.018	<0.018	<0.018	<0.018	0.20	0.051
ENDRIN	UG/M3	97254 D7	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.13	<0.015
PARATHION	UG/M3	97255 D7	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046
CHLORDANE	UG/M3	97256 D7	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MALATHION	UG/M3	97257 D7	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
SUPONA	UG/M3	97258 D7	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
ALDRIN	UG/M3	97259 D7	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	0.19	<0.023
ISODRIN	UG/M3	97260 D7	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	0.031	<0.023
P-CHLOROMETHYL SULFIDE	UG/M3	97261 D7	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
P-CHLOROMETHYL SULFOXIDE	UG/M3	97262 D7	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	0.054	<0.023
P-CHLOROMETHYL SULFONE	UG/M3	97263 D7	<0.011	<0.011	0.024	<0.011	<0.011	<0.011	<0.011	<0.011	0.36	0.37
DIBROMOCHLOROPROPANE	UG/M3	97264 D7	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
DICYCLOPENTADIENE	UG/M3	97265 D7	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
DIMETHYLMETHYLPHOSPHONATE	UG/M3	97266 D7	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
DIISOPROPYLMETHYLPHOSPHONATE	UG/M3	97267 D7	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023

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PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1SVO PROJECT MANAGER
ESVO LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	AQ9 E1SVO 1	AQ36-2 E1SVO 3	AQ36-3 E1SVO 4	AQ36-2 E2SVO 1	AQ36-3 E3SVO 1	AQ36-2 E3SVO 2	AQ36-5 E3SVO 3	AQ9 E3SVO 4	BF-4 E5SVO 1	BF-6 E5SVO 2
			SAMPLE ID/#									
DATE			05/13/87	05/13/87	05/13/87	05/15/87	05/19/87	05/19/87	05/19/87	05/19/87	06/12/87	06/12/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
1,4-DITHIANE		97268	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
	UG/M3	D7										
HEXACHLOROCYCLOPENTA		97269	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
DIENE	UG/M3	D7										
OXATHIANE		97270	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
	UG/M3	D7										
VAPONA		97271	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
	UG/M3	D7										
ATRAZINE		97250	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
	UG/M3	D7										
P,P'-DDE		97251	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
	UG/M3	D7										
P,P'-DDT		97252	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022
	UG/M3	D7										
UNK600		93600	0.04		0.04		0.05	0.07				
	UG/M3	0										
UNK603		93603	0.04	0.04			0.05		0.06	0.06		
	UG/M3	0										
UNK611		93611	0.03	0.05						0.06	0.1	0.1
	UG/M3	0										
UNK616		93616	0.04	0.04				0.2			0.1	0.2
	UG/M3	0										
UNK619		93619	0.03			0.04			0.04			
	UG/M3	0										
UNK558		93558		0.05	0.04		0.06		0.04	0.06		
	UG/M3	0										
UNK566		93566		0.04			0.06					
	UG/M3	0										
UNK606		93606		0.04				0.09		0.07		
	UG/M3	0										
UNK615		93615		0.04						0.07		
	UG/M3	0										
UNK583		93583			0.04							
	UG/M3	0										
UNK596		93596			0.09				0.09		0.09	
	UG/M3	0										
UNK607		93607			0.09				0.07			
	UG/M3	0										
UNK582		93582				0.04						
	UG/M3	0										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1SVO PROJECT MANAGER
ESVO LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# AQ9 E1SVO 1	AQ36-2 E1SVO 3	AQ36-3 E1SVO 4	AQ36-2 E2SVO 1	AQ36-3 E3SVO 1	AQ36-2 E3SVO 2	AQ36-5 E3SVO 3	AQ9 E3SVO 4	BF-4 E5SVO 1	BF-6 E5SVO 2
DATE			05/13/87	05/13/87	05/13/87	05/15/87	05/19/87	05/19/87	05/19/87	05/19/87	06/12/87	06/12/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
UNK630		93630				0.07						
	UG/M3	0										
UNK633		93633				0.4		0.2				
	UG/M3	0										
UNK652		93652				0.04						
	UG/M3	0										
UNK666		93666				0.04						
	UG/M3	0										
UNK609		93609					0.06			0.05		
	UG/M3	0										
UNK548		93548						0.05				
	UG/M3	0										
UNK601		93601						0.06				0.07
	UG/M3	0										
UNK572		93572							0.06	0.06		
	UG/M3	0										
UNK580		93580									0.08	
	UG/M3	0										
UNK581		93581									0.04	
	UG/M3	0										
UNK591		93591									0.1	
	UG/M3	0										
UNK605		93605									0.10	0.06
	UG/M3	0										
UNK562		93562										0.01
	UG/M3	0										
UNK620		93620										0.09
	UG/M3	0										
UNK625		93625										0.06
	UG/M3	0										
UNK627		93627										0.09
	UG/M3	0										
UNK586		93586										
	UG/M3	0										
UNK589		93589										
	UG/M3	0										
UNK602		93602										
	UG/M3	0										
UNK613		93613										
	UG/M3	0										

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PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1SVO PROJECT MANAGER
ESVO LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# AQ9 E1SVO 1	AQ36-2 E1SVO 3	AQ36-3 E1SVO 4	AQ36-2 E2SVO 1	AQ36-3 E3SVO 1	AQ36-2 E3SVO 2	AQ36-5 E3SVO 3	AQ9 E3SVO 4	BF-4 E5SVO 1	BF-6 E5SVO 2
DATE			05/13/87	05/13/87	05/13/87	05/15/87	05/19/87	05/19/87	05/19/87	05/19/87	06/12/87	06/12/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
UNK624		93624										
	UG/M3	0										
UNK632		93632										
	UG/M3	0										
UNK568		93568										
	UG/M3	0										
UNK587		93587										
	UG/M3	0										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1SVO PROJECT MANAGER
ESVO LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# BF-3 E5SVO 3	AQ11 E5SVO 4	BF-4 E6SVO 1	BF-6 E6SVO 2	BF-3 E6SVO 3	AQ11 E6SVO 4
DATE			06/12/87	06/12/87	06/18/87	06/18/87	06/18/87	06/18/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00
SAMPLE TYPE		71999 0	AR	AR	AR	AR	AR	AR
SITE TYPE 1		99759 0	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
SAMPLE DEPTH	CM	99758 0	-120	-215	-120	-120	-120	-215
SAMPLING TECHNIQUE		72005 0	H	H	H	H	H	H
INSTALLATION CODE	SAMPLE	99720 0	RK	RK	RK	RK	RK	RK
DIELDRIN	UG/M3	97253 D7	0.18	>0.099	1.6	0.041	1.4	0.065
ENDRIN	UG/M3	97254 D7	0.092	0.071	0.13	<0.015	0.083	0.031
PARATHION	UG/M3	97255 D7	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046
CHLORDANE	UG/M3	97256 D7	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
MALATHION	UG/M3	97257 D7	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
SUPONA	UG/M3	97258 D7	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
ALDRIN	UG/M3	97259 D7	0.20	0.067	0.087	<0.023	0.064	<0.023
ISODRIN	UG/M3	97260 D7	0.038	<0.023	<0.023	<0.023	<0.023	<0.023
P-CHLOROMETHYL SULFIDE	UG/M3	97261 D7	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
P-CHLOROMETHYL SULFOXIDE	UG/M3	97262 D7	0.065	0.047	0.039	<0.023	0.038	0.026
P-CHLOROMETHYL SULFONE	UG/M3	97263 D7	0.34	0.37	1.7	0.56	1.6	1.4
DIBROMOCHLOROPROPANE	UG/M3	97264 D7	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
DICYCLOPENTADIENE	UG/M3	97265 D7	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
DIMETHYLMETHYLPHOSPHONATE	UG/M3	97266 D7	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
DIISOPROPYLMETHYLPHOSPHONATE	UG/M3	97267 D7	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1SVO PROJECT MANAGER
ESVO LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# BF-3 E5SVO 3	AQ11 E5SVO 4	BF-4 E6SVO 1	BF-6 E6SVO 2	BF-3 E6SVO 3	AQ11 E6SVO 4
DATE			06/12/87	06/12/87	06/18/87	06/18/87	06/18/87	06/18/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00
1,4-DITHIANE		97268	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
	UG/M3	D7						
HEXACHLOROCYCLOPENTA		97269	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
DIENE	UG/M3	D7						
OXATHIANE		97270	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
	UG/M3	D7						
VAPONA		97271	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
	UG/M3	D7						
ATRAZINE		97250	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
	UG/M3	D7						
P,P'-DDE		97251	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
	UG/M3	D7						
P,P'-DDT		97252	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022
	UG/M3	D7						
UNK600		93600						
	UG/M3	0						
UNK603		93603			0.1			
	UG/M3	0						
UNK611		93611						
	UG/M3	0						
UNK616		93616			0.02	0.02		
	UG/M3	0						
UNK619		93619						
	UG/M3	0						
UNK558		93558						
	UG/M3	0						
UNK566		93566					0.02	0.02
	UG/M3	0						
UNK606		93606						
	UG/M3	0						
UNK615		93615	0.05	0.04				
	UG/M3	0						
UNK583		93583						
	UG/M3	0						
UNK596		93596	0.1		0.05		0.08	
	UG/M3	0						
UNK607		93607	0.10				0.06	
	UG/M3	0						
UNK582		93582						
	UG/M3	0						

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1SVO PROJECT MANAGER
ESVO LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# BF-3 E5SVO 3	AQ11 E5SVO 4	BF-4 E6SVO 1	BF-6 E6SVO 2	BF-3 E6SVO 3	AQ11 E6SVO 4
DATE			06/12/87	06/12/87	06/18/87	06/18/87	06/18/87	06/18/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00
UNK630		93630						
	UG/M3	0						
UNK633		93633						
	UG/M3	0						
UNK652		93652				0.03	0.03	0.04
	UG/M3	0						
UNK666		93666						
	UG/M3	0						
UNK609		93609						
	UG/M3	0						
UNK548		93548						
	UG/M3	0						
UNK601		93601						
	UG/M3	0						
UNK572		93572						
	UG/M3	0						
UNK580		93580	0.04	0.04				
	UG/M3	0						
UNK581		93581	0.05					
	UG/M3	0						
UNK591		93591	0.1	0.03	0.06		0.05	0.02
	UG/M3	0						
UNK605		93605						
	UG/M3	0						
UNK562		93562						
	UG/M3	0						
UNK620		93620						
	UG/M3	0						
UNK625		93625						
	UG/M3	0						
UNK627		93627						
	UG/M3	0						
UNK586		93586	0.05				0.02	0.02
	UG/M3	0						
UNK589		93589	0.05	0.03				0.02
	UG/M3	0						
UNK602		93602	0.06	0.1		0.08	0.08	0.1
	UG/M3	0						
UNK613		93613	0.07					
	UG/M3	0						

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1SVO PROJECT MANAGER
ESVO LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET # METHOD	SAMPLE ID/# BF-3 E5SVO 3	AQ11 E5SVO 4	BF-4 E6SVO 1	BF-6 E6SVO 2	BF-3 E6SVO 3	AQ11 E6SVO 4
DATE			06/12/87	06/12/87	06/18/87	06/18/87	06/18/87	06/18/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00
UNK624		93624			0.05		0.04	
	UG/M3	0						
UNK632		93632			0.06			
	UG/M3	0						
UNK568		93568				0.01		
	UG/M3	0						
UNK587		93587					0.02	
	UG/M3	0						

APPENDIX B.6
METALS DATA

TSP METAL DATA 01 FEB 1988

DATE	FIELD	SAMP.ELEM.	SAMPLES.NO.	FILTER.NO.	INIT.TIME (Min)	FINAL.TIME (Min)	ELAPS.TIME (Min)	FLOW (cfm)	VOLUME (m^3)	CHK.BY	DATE.CH	COMMENTS
04-17-87	A01	E1MET01	576	67010	77149.3	79584.5	1435.2	42.3	1979.3016	JAK	2-1-88	
05-11-87	A01	E2MET01	576	60109X	84331.8	85767.2	1435.5	47.6	1948.3342	JAK	2-1-88	
05-15-87	A01	E3MET01	576	60117X	85767.3	87202.5	1435.2	42.7	1939.837	JAK	2-1-88	
05-19-87	A01	E4MET01	576	124	89639.1	90074.2	1435.1	43.4	1941.0772	JAK	2-1-88	
06-05-87	A01	E5MET01	576	131X	94381.8	95816.8	1435	41.6	1839.1435	JAK	2-1-88	
06-12-87	A01	E6MET01	576	1	97252.3	98687.3	1435.3	41.7	1855.2321	JAK	2-1-88	
06-14-87	A01	E7MET01	576	14	98687.3	100122.7	1436.4	42.8	1899.2135	JAK	2-1-88	
06-16-87	A01	E8MET01	576	21	00123.7	01557.9	1434.2	43.6	1923.8253	JAK	2-1-88	
06-17-87	A01	E9MET01	576	28	01557.9	02891.2	1333.3	45.2	1865.1728	JAK	2-1-88	
06-25-87	A01	E10MET01	584	0037	92750.3	94184.8	1434.5	48.2	1889.1658	JAK	2-1-88	
07-09-87	A01	E11MET01	584		94184.8	95536.0	1441.2	47.2	1911.5427	JAK	2-1-88	
07-16-87	A01	E12MET01	584	01006	96548.1	97988.5	1440.4	43.4	1837.9164	JAK	2-1-88	
04-17-87	A03	E1MET02	567	67020	77185.7	78623.2	1434.5	45.2	1924.6124	JAK	2-1-88	
05-11-87	A03	E2MET02	567	60110X	84356.7	85791.0	1434.3	44.4	1909.6646	JAK	2-1-88	
05-15-87	A03	E3MET02	567	60118X	85791.0	87225.7	1434.7	44.5	1901.8651	JAK	2-1-88	
05-19-87	A03	E4MET02	567	125	88663.7	90093.4	1432.7	45.1	1941.0182	JAK	2-1-88	
06-05-87	A03	E5MET02	567	132X	94397.1	95831.3	1434.2	41.7	1770.215	JAK	2-1-88	
06-12-87	A03	E6MET02	567	3	97266.6	98702.5	1435.9	42.4	1814.6807	JAK	2-1-88	
06-14-87	A03	E7MET02	567	13	98702.5	100139.3	1436.8	43.1	1849.3499	JAK	2-1-88	
06-16-87	A03	E8MET02	567	18	00139.7	01574.2	1434.5	41.8	1772.1246	JAK	2-1-88	
06-17-87	A03	E9MET02	567	24	01574.2	02968.2	1394	42.4	1758.3564	JAK	2-1-88	
06-25-87	A03	E10MET02	567	0036	2968.2	4402.5	1434.3	42.4	1821.7905	JAK	2-1-88	
07-09-87	A03	E11MET02	567		04402.5	05835.3	1435.8	41.6	1762.3711	JAK	2-1-88	
07-16-87	A03	E12MET02	576	01008	6805.4	8138.2	1332.8	40.1	1636.5623	JAK	2-1-88	
04-17-87	A05	E1MET04	575	67000	47396.8	48839.7	1442.9	44.5	1936.1109	JAK	2-1-88	
05-11-87	A05	E2MET04	575	60107X	54609.3	56051.9	1442.6	45.2	1995.9568	JAK	2-1-88	
05-15-87	A05	E3MET04	575	600112X	56051.9	57495.5	1443.6	45.0	1976.4205	JAK	2-1-88	
05-19-87	A05	E4MET04	575	123	58937.1	60380.5	1443.4	44.7	1977.8766	JAK	2-1-88	
06-05-87	A05	E5MET04	575	130X	64706.6	66150.6	1444	42.6	1868.4139	JAK	2-1-88	
06-12-87	A05	E6MET04	-----	-----	-----	-----	-----	-----	-----	JAK	2-1-88	EQUIPMENT FAILURE
06-14-87	A05	E7MET04	-----	-----	-----	-----	-----	-----	-----	JAK	2-1-88	EQUIPMENT FAILURE
06-16-87	A05	E8MET03	-----	-----	-----	-----	-----	-----	-----	JAK	2-1-88	EQUIPMENT FAILURE
06-17-87	A05	E9MET04	575	29	69037.0	70428.3	1391.3	44.6	1839.4033	JAK	2-1-88	
06-25-87	A05	E10MET04	0575	0038	70428.5	71871.5	1443	43.5	1925.2995	JAK	2-1-88	
07-09-87	A05	E11MET04	-----	-----	-----	-----	-----	-----	-----	JAK	2-1-88	POWER FAILURE
07-16-87	A05	E12MET04	568	01005	90499.8	91952.2	1452.4	33.7	1395.315	JAK	2-1-88	
06-12-87	A06	E6MET03	565	4	66258.2	67705.8	1437.6	45.2	1917.8506	JAK	2-1-88	
06-14-87	A06	E7MET08	565	15	67705.8	69142.7	1436.9	44.1	1865.5587	JAK	2-1-88	
06-16-87	A06	E8MET08	565	22	69142.7	70591.2	1448.5	43.7	1856.6655	JAK	2-1-88	

TSP METAL DATA 01 FEB 1988

DATE.....	STA.ID..	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	INIT.TIME....	FINAL.TIME...	ELAPS.TIME...	FLOW.....	VOLUME.....	CHK.BY.....	DATE.CH....	COMMENTS.....
06-17-87	AQ5	E9MET03	565	30	70591.2	71950.3	1359.1	44.2	1771.1861	JAK	2-1-88	
07-09-87	AQ6	E11MET05	565		71980.4	73418.5	1438.1	42.6	1796.3352	JAK	2-1-88	
07-16-87	AQ6	E12MET02	565	01007	74310.7	75747.1	1436.4	40.1	1545.9441	JAK	2-1-88	
04-17-87	AQ9	E1MET05	564	607040	75873.2	77342.0	1468.8	42.0	1916.5795	JAK	2-1-88	
05-11-87	AQ2	E2MET03	564	60106X	83223.9	84694.5	1470.6	41.8	1920.3506	JAK	2-1-88	
05-13-87	AQB	E3MET09	564	60114X	84694.5	86165.8	1471.3	40.5	1846.1049	JAK	2-1-88	
05-19-87	ACB	E4MET06	-----	-----	-----	-----	-----	-----	-----	JAK	2-1-88	EQUIPMENT FAILURE
06-05-87	AQ9	E5MET06	564	127X	92048.0	93515.9	1467.9	40.4	1859.9329	JAK	2-1-88	
06-25-87	AQ9	E10MET05	564	0034	97929.0	99396.8	1467.8	41.4	1878.9342	JAK	2-1-88	
07-09-87	AQ9	E11MET06	564		99396.8	100864.8	1468	40.6	1834.1154	JAK	2-1-88	
07-16-87	AQ9	E12MET05	564	01002	1527.8	3000.9	1473.1	38.1	1715.9243	JAK	2-1-88	
06-25-87	AQ9	E10MET07	579	0032	62483.5	63949.9	1466.4	41.6	1744.1955	JAK	2-1-88	
07-09-87	AQ9	E11MET08	579		63949.9	65415.4	1465.5	40.4	1656.4731	JAK	2-1-88	
07-16-87	AQ9	E12MET07	579	01001	65980.9	67449.0	1468.1	39.6	1614.3162	JAK	2-1-88	
08-29-87	DPA	E13MET1	575	1009	350.8	1725.8	1375	54.9	2230.9798	JAK	2-1-88	
06-16-87	AQ11	E8MET04	-----	-----	-----	-----	-----	-----	-----	JAK	2-1-88	EQUIPMENT FAILURE
06-17-87	AQ11	E9MET06	568	25	89071.2	90499.7	1428.5	40.0	1677.3672	JAK	2-1-88	
04-17-87	AQ8M	E1MET03	690	607050	24927.4	26366.2	1438.8	48.5	2299.6529	JAK	2-1-88	
05-11-87	AQ8M	E2MET06	690	60105X	26366.2	27805.1	1439.9	47.7	2275.0402	JAK	2-1-88	
05-13-87	AQ8M	E3MET06	690	60115X	27806.1	29245.1	1439	43.7	2052.679	JAK	2-1-88	
05-19-87	AQ8M	E4MET07	690	121	29245.1	30681.7	1436.6	44.5	2114.9126	JAK	2-1-88	
06-05-87	AQ8M	E5MET07	690	128X	30681.7	32120.9	1439.2	46.4	2186.7476	JAK	2-1-88	
06-12-87	AQ8M	E6MET06	690	7	32120.9	32121.0	.1	46.0	.1515	JAK	2-1-88	
06-14-87	AQ8M	E7MET06	690	11	32121.0	33560.4	1439.4	46.1	2179.2754	JAK	2-1-88	
06-12-87	AQ8S	E6MET07	564	6	94986.1	96457.2	1471.1	43.0	1970.3022	JAK	2-1-88	
06-14-87	AQ8S	E7MET07	564	10	96457.2	97929.1	1471.9	41.6	1897.3088	JAK	2-1-88	
04-17-87	AQ9X	E1MET05	569	607030	48049.7	49502.4	1452.7	45.0	1869.4758	JAK	2-1-88	
05-11-87	AQ9X	E2MET02	569	61111X	55326.4	56781.3	1454.9	43.3	1813.8176	JAK	2-1-88	
05-13-87	AQ9X	E3MET03	569	60113X	56781.3	58235.0	1453.7	42.3	1761.1784	JAK	2-1-88	
05-19-87	AQ9X	E4MET03	569	119	58292.5	59747.9	1455.4	42.0	1764.0453	JAK	2-1-88	
06-05-87	AQ9X	E5MET03	569	125X	64113.0	65565.5	1452.5	43.0	1781.3085	JAK	2-1-88	
06-12-87	AQ9X	E6MET03	569	5	67017.8	68470.6	1452.8	44.2	1840.0811	JAK	2-1-88	
06-14-87	AQ9X	E7MET02	569	12	68470.6	69922.7	1452.1	42.8	1777.3609	JAK	2-1-88	
05-11-87	BADP	E2MET07	565	61091X	56432.8	57871.0	1438.2	47.3	2012.8205	JAK	2-1-88	
05-13-87	BADP	E3MET07	565	60116X	57871.0	58416.4	545.4	40.0	645.1974	JAK	2-1-88	
05-19-87	BADP	E4MET08	565	112	58416.4	59856.4	1440	45.2	1930.8017	JAK	2-1-88	
06-05-87	BADP	E5MET08	584	129X	86254.4	87697.8	1443.4	47.6	1837.5533	JAK	2-1-88	
09-01-87	BADP	E13MET2	575	1010	1725.8	3169.3	1443.5	54.4	2320.1573	JAK	2-1-88	
09-03-87	BADP	E13MET3	575	1011	3169.3	4619.6	1450.3	55.2	2345.9065	JAK	2-1-88	
09-09-87	BADP	E13MET4	575	1013	4619.6	6085.8	1466.2	55.1	2386.6616	JAK	2-1-88	
06-16-87	MDB1	E8MET05	584	17	89143.6	90586.5	1442.9	48.1	1855.4351	JAK	2-1-88	
06-17-87	MDB1	E9MET07	584	26	90586.5	91960.3	1373.8	50.8	1890.6155	JAK	2-1-88	
06-25-87	MDB1	E10MET05	580	0035	90487.7	91910.3	1422.6	39.3	1664.8746	JAK	2-1-88	
07-09-87	MDB1	E11MET03	566		84930.4	86396.3	1465.9	43.8	1863.4209	JAK	2-1-88	
07-16-87	MDB1	E12MET08	580	01003	93974.2	95339.1	1424.9	37.8	1570.7286	JAK	2-1-88	
06-16-87	MDB2	E8MET07	690	20	33560.4	35001.1	1440.7	48.2	2273.2464	JAK	2-1-88	
06-17-87	MDB2	E9MET08	690	27	35001.1	36363.0	1361.9	50.0	2245.2256	JAK	2-1-88	
06-25-87	MDB2	E10MET08	12690	0033	36363.0	37805.8	1442.8	48.6	2325.8366	JAK	2-1-88	
07-09-87	MDB2	E11MET07	580		91910.4	93333.5	1423.1	40.2	1681.4361	JAK	2-1-88	
07-16-87	MDB2	E12MET06	566	01004	86396.3	87863.9	1467.6	37.4	1582.165	JAK	2-1-88	
06-16-87	MDB3	E9MET06	580	16	87595.6	89018.7	1423.1	43.4	1827.1984	JAK	2-1-88	
06-17-87	MDB3	E9MET09	580	31	89018.7	90487.7	1469	43.8	1916.4025	JAK	2-1-88	

PM METAL DATA 01 FEB 1988

DATE.....	STA.ID...	SAMPLE.NO.....	SAMPLER.NO...	FILTER.NO...	START.MIN....	STOP.MIN.....	ELAPS.TIME... (Min)	FLOW..... (scfm)	VOLUME..... (m^3)	CHK.BY.....	DATE.CH....	COMMENTS.....
04-17-87	AG9P	E1META9	-----	-----	-----	-----	-----	-----	-----	JAK	2-1-88	
05-17-87	AG9P	E2META5	577	0070090	97914	99354	1440	40.0	1631.232	JAK	2-1-88	
05-19-87	AG9P	E4META5	577	67110	100894	102334	1440	40.0	1631.232	JAK	2-1-88	
06-05-87	AG9P	E5META5	577	7201	106656	108096	1440	40.0	1631.232	JAK	2-1-88	
06-12-87	AG9P	E6META5	577	8	109536	110976	1440	40.0	1631.232	JAK	2-1-88	
06-14-87	AG9P	E7META5	577	9	110976	112416	1440	40.0	1631.232	JAK	2-1-88	
06-25-87	AG9P	E10META5	577	0039	112414.8	114602.4	2187.6	40.0	2478.1133	JAK	2-1-88	
04-17-87	BAGP	E1META7	583	0100I	42756	44196	1440	40.0	1631.232	JAK	2-1-88	
05-13-87	AG9PM10	E3META5	577	007100	99351	100791.6	1440.6	40	1631.9117	JAK	2-1-88	

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP EIMET PROJECT MANAGER
EMET LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# AQ1 EIMET 1	AQ3 EIMET 2	AQ36-3 EIMET 3	AQ5 EIMET 4	AQ8 EIMET 5	AQ9 EIMET 6	AQ36-2 EIMET 7	AQ9 EIMET 8	AQ1 E2MET 1	AQ3 E2MET 2
UNITS	METHOD										
DATE		04/17/87	04/17/87	04/17/87	04/17/87	04/17/87	04/17/87	04/17/87	04/17/87	05/11/87	05/11/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
CADMIUM,AIR	97162	<0.002	<0.002	0.015	0.005	<0.002	<0.002	0.003	0.002	0.005	0.017
UG/M3	B7										
CHROMIUM,AIR	97163	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
UG/M3	B7										
COPPER,AIR	97141	0.110	0.204	>0.200	0.170	0.212	0.135	0.029	0.026	0.065	0.130
UG/M3	B7										
LEAD,AIR	97164	0.049	0.027	0.030	0.045	0.031	0.031	0.037	0.025	0.032	0.036
UG/M3	B7										
ZINC,AIR	97166	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485
UG/M3	B7										
ARSENIC,AIR	97138	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
UG/M3	B7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-215	-215	-120	-215	-215	-215	-120	-215	-215	-215
CM	0										
SAMPLING TECHNIQUE	72005	H	H	H	H	H	H	H	H	H	H
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1MET PROJECT MANAGER
EMET LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# AQ9 E2MET 3	AQ5 E2MET 4	AQ9 E2MET 5	AQ36-3 E2MET 6	AQ36-2 E2MET 7	AQ8 E2MET 8	AQ1 E3MET 1	AQ3 E3MET 2	AQ9 E3MET 3	AQ5 E3MET 4
UNITS	METHOD										
DATE		05/11/87	05/11/87	05/11/87	05/11/87	05/11/87	05/11/87	05/13/87	05/13/87	05/13/87	05/13/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
CADMIUM,AIR	97162	0.008	0.007	0.003	0.003	0.004	0.008	<0.002	<0.002	<0.002	<0.002
UG/M3	B7										
CHROMIUM,AIR	97163	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.003
UG/M3	B7										
COPPER,AIR	97141	0.096	0.080	<0.016	0.590	0.104	0.111	0.067	0.118	0.081	0.078
UG/M3	B7										
LEAD,AIR	97164	0.034	0.036	<0.008	0.027	0.029	0.030	0.031	0.016	0.019	0.024
UG/M3	B7										
ZINC,AIR	97166	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485
UG/M3	B7										
ARSENIC,AIR	97138	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
UG/M3	B7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-215	-215	-215	-120	-120	-215	-215	-215	-215	-215
CM	0										
SAMPLING TECHNIQUE	72005	H	H	H	H	H	H	H	H	H	H
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	3										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1MET PROJECT MANAGER
EMET LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# AQ9 E3MET 5	AQ36-3 E3MET 6	AQ36-2 E3MET 7	AQ8 E3MET 8	AQ1 E4MET 1	AQ3 E4MET 2	AQ9 E4MET 3	AQ5 E4MET 4	AQ9 E4MET 5	AQ8 E4MET 6
UNITS	METHOD										
DATE		05/13/87	05/13/87	05/13/87	05/13/87	05/19/87	05/19/87	05/19/87	05/19/87	05/19/87	05/19/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
CADMIUM,AIR	97162	<0.002	<0.002	<0.002	<0.002	0.005	0.003	0.002	<0.002	0.003	NA
UG/M3	B7										
CHROMIUM,AIR	97163	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	NA
UG/M3	B7										
COPPER,AIR	97141	<0.016	>0.226	0.112	0.115	0.117	0.085	0.046	0.127	<0.016	NA
UG/M3	B7										
LEAD,AIR	97164	0.009	0.020	0.045	0.018	0.056	0.025	0.016	0.052	0.035	NA
UG/M3	B7										
ZINC,AIR	97166	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	NA
UG/M3	B7										
ARSENIC,AIR	97138	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	NA
UG/M3	B7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-215	-120	-120	-215	-215	-215	-215	-215	-215	-120
CM	0										
SAMPLING TECHNIQUE	72005	H	H	H	H	H	H	H	H	H	H
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										

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PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP EIMET PROJECT MANAGER
EMET LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# AQ36-3	AQ36-2	AQ1	AQ3	AQ9	AQ5	AQ9	AQ8	AQ36-3	AQ36-2
		E4MET	E4MET	E5MET	E5MET	E5MET	E5MET	E5MET	E5MET	E5MET	E5MET
UNITS	METHOD	7	8	1	2	3	4	5	6	7	8
DATE		05/19/87	05/19/87	06/05/87	06/05/87	06/05/87	06/05/87	06/05/87	06/05/87	06/05/87	06/05/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
CADMIUM,AIR	97162	0.004	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
UG/M3	B7										
CHROMIUM,AIR	97163	<0.003	<0.003	0.003	0.005	0.010	<0.003	<0.003	<0.003	<0.003	<0.003
UG/M3	B7										
COPPER,AIR	97141	0.700	0.231	0.098	0.185	0.114	0.124	<0.016	0.129	0.513	0.249
UG/M3	B7										
LEAD,AIR	97164	0.035	0.042	0.051	0.056	0.023	0.036	0.014	0.025	0.021	0.029
UG/M3	B7										
ZINC,AIR	97166	<0.485	<0.485	10.2	4.11	6.23	1.92	<0.010	5.61	3.12	2.36
UG/M3	B7										
ARSENIC,AIR	97138	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
UG/M3	B7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-120	-120	-215	-215	-215	-215	-215	-120	-120	-120
CM	0										
SAMPLING TECHNIQUE	72005	H	H	H	H	H	H	H	H	H	H
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										

PROJECT NUMBER 86927 0500
FIELD GROUP E1MET
EMET

PROJECT NAME RMA AIR (TASK18)
PROJECT MANAGER
LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# AQ1 E6MET 1	AQ3 E6MET 2	AQ9 E6MET 3	AQ9 E6MET 5	AQ36-3 E6MET 6	AQ8 E6MET 7	AQ6 E6MET 8	AQ1 E7MET 1	AQ3 E7MET 2	AQ9 E7MET 3
UNITS	METHOD										
DATE		06/12/87	06/12/87	06/12/87	06/12/87	06/12/87	06/12/87	06/12/87	06/14/87	06/14/87	06/14/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
CADMIUM,AIR	97162	<0.002	<0.002	<0.002	<0.002	NA	0.003	0.004	<0.002	<0.002	<0.002
UG/M3	B7										
CHROMIUM,AIR	97163	<0.003	<0.003	<0.003	<0.003	NA	<0.003	0.005	<0.003	<0.003	<0.003
UG/M3	B7										
COPPER,AIR	97141	0.044	0.117	0.154	0.019	NA	0.044	0.074	0.104	0.127	0.114
UG/M3	B7										
LEAD,AIR	97164	0.030	0.022	0.028	0.020	NA	0.011	0.024	0.010	<0.008	<0.008
UG/M3	B7										
ZINC,AIR	97166	<0.010	1.99	0.128	<0.010	NA	<0.010	1.67	<0.485	<0.485	<0.485
UG/M3	B7										
ARSENIC,AIR	97138	<0.003	<0.003	<0.003	<0.003	NA	<0.003	<0.003	<0.003	<0.003	<0.003
UG/M3	B7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-215	-215	-215	-215	-120	-215	-215	-215	-215	-215
CM	0										
SAMPLING TECHNIQUE	72005	H	H	H	H	H	H	H	H	H	H
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP EIMET PROJECT MANAGER
EMET LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# AQ5	AQ9	AQ36-3	AQ8	AQ6	AQ1	AQ3	BF-4	AQ36-1	BF-3
		E7MET	E7MET	E7MET	E7MET	E7MET	E8MET	E8MET	E8MET	E8MET	E8MET
UNITS	METH D	4	5	6	7	8	1	2	5	6	7
DATE		06/14/87	06/14/87	06/14/87	06/14/87	06/14/87	06/16/87	06/16/87	06/16/87	06/16/87	06/16/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
CADMIUM,AIR	97162	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
UG/M3	B7										
CHROMIUM,AIR	97163	NA	<0.003	<0.003	<0.003	0.003	<0.003	<0.003	0.004	0.050	<0.003
UG/M3	B7										
COPPER,AIR	97141	NA	<0.016	0.543	0.142	0.081	0.115	0.113	>0.200	0.233	0.713
UG/M3	B7										
LEAD,AIR	97164	NA	<0.008	<0.008	0.017	0.010	0.040	<0.008	0.017	0.062	<0.008
UG/M3	B7										
ZINC,AIR	97166	NA	<0.485	<0.485	<0.485	<0.485	<0.970	<0.970	<0.970	<0.970	<0.970
UG/M3	B7										
ARSENIC,AIR	97138	NA	<0.003	0.012	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
UG/M3	B7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-215	-215	-120	-215	-215	-215	-215	-120	-120	-120
CM	0										
SAMPLING TECHNIQUE	72005	H	H	H	H	H	H	H	H	H	H
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1MET PROJECT MANAGER
EMET LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# AQ6 E8MET	AQ1 E9MET	AQ3 E9MET	AQ4 E9MET	AQ5 E9MET	AQ36-1 E9MET	AQ11 E9MET	BF-4 E9MET	BF-3 E9MET	AQ1 E10MET
UNITS	METHOD	8	1	2	3	4	5	6	7	8	1
DATE		06/16/87	06/17/87	06/17/87	06/17/87	06/17/87	06/17/87	06/17/87	06/17/87	06/17/87	06/25/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
CADMIUM,AIR	97162	<0.002	<0.002	<0.002	0.003	0.003	<0.002	<0.002	<0.002	<0.002	<0.002
UG/M3	B7										
CHROMIUM,AIR	97163	<0.003	<0.003	<0.003	0.009	0.008	0.016	0.010	0.009	0.009	0.006
UG/M3	B7										
COPPER,AIR	97141	0.096	0.131	0.082	0.068	0.111	0.148	0.155	0.377	0.846	>0.226
UG/M3	B7										
LEAD,AIR	97164	<0.008	0.025	0.012	0.020	0.016	0.017	<0.008	0.012	0.019	0.031
UG/M3	B7										
ZINC,AIR	97166	<0.970	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485
UG/M3	B7										
ARSENIC,AIR	97138	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
UG/M3	B7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-215	-215	-215	-215	-215	-120	-120	-120	-120	-215
CM	0										
SAMPLING TECHNIQUE	72005	H	H	H	H	H	H	H	H	H	H
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										

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PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1MET PROJECT MANAGER
EMET LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# AQ3	AQ9	AQ5	AQ36-3	AQ8	AQ9	AQ36-4	AQ1	AQ3	AQ36-2
		E1OMET	E1OMET	E1OMET	E1OMET	E1OMET	E1OMET	E1OMET	E11MET	E11MET	E11MET
UNITS	METHOD	2	3	4	5	6	7	8	1	2	3
DATE		06/25/87	06/25/87	06/25/87	06/25/87	06/25/87	06/25/87	06/25/87	07/09/87	07/09/87	07/09/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
CADMIUM,AIR	97162	<0.002	<0.002	<0.002	<0.002	0.005	<0.002	<0.002	0.002	<0.002	<0.002
UG/M3	B7										
CHROMIUM,AIR	97163	0.006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.004	<0.003
UG/M3	B7										
COPPER,AIR	97141	0.064	<0.016	0.076	0.070	0.088	0.089	0.912	0.308	0.105	0.095
UG/M3	B7										
LEAD,AIR	97164	0.009	<0.008	0.021	<0.008	0.010	<0.008	<0.008	0.057	0.025	0.024
UG/M3	B7										
ZINC,AIR	97166	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485
UG/M3	B7										
ARSENIC,AIR	97138	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
UG/M3	B7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-215	-215	-215	-120	-215	-215	-120	-215	-215	-120
CM	0										
SAMPLING TECHNIQUE	72005	H	H	H	H	H	H	H	H	H	H
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP EIMET PROJECT MANAGER
EMET LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# AQ6	AQ8	AQ36-3	AQ9	AQ1	AQ3	AQ6	AQ5	AQ8	AQ36-2
UNITS	METHOD	E11MET 5	E11MET 6	E11MET 7	E11MET 8	E12MET 1	E12MET 2	E12MET 3	E12MET 4	E12MET 5	E12MET 6
DATE		07/09/87	07/09/87	07/09/87	07/09/87	07/16/87	07/16/87	07/16/87	07/16/87	07/16/87	07/16/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
CADMIUM,AIR	97162	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
UG/M3	B7										
CHROMIUM,AIR	97163	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
UG/M3	B7										
COPPER,AIR	97141	0.089	0.216	0.123	0.084	0.358	0.105	0.118	0.101	0.129	0.072
UG/M3	B7										
LEAD,AIR	97164	0.030	0.025	0.021	0.029	0.034	<0.008	<0.008	<0.008	<0.008	<0.008
UG/M3	B7										
ZINC,AIR	97166	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485	<0.485
UG/M3	B7										
ARSENIC,AIR	97138	<0.003	<0.003	0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
UG/M3	B7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-215	-215	-120	-215	-215	-215	-215	-215	-215	-120
CM	0										
SAMPLING TECHNIQUE	72005	H	H	H	H	H	H	H	H	H	H
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										

PROJECT NUMBER 86927 0500
FIELD GROUP EIMET
EMET

PROJECT NAME RMA AIR (TASK18)
PROJECT MANAGER
LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# AQ9	AQ36-3	AQ36-2	AQ36-2	AQ36-2	AQ36-2
UNITS	METHOD	E12MET 7	E12MET 8	E13MET 1	E13MET 2	E13MET 3	E13MET 4
DATE		07/16/87	07/16/87	08/24/87	09/01/87	09/03/87	09/09/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00
CADMIUM,AIR	97162	<0.002	<0.002	0.005	<0.002	<0.002	<0.002
UG/M3	B7						
CHROMIUM,AIR	97163	<0.003	<0.003	<0.003	0.005	<0.003	<0.003
UG/M3	B7						
COPPER,AIR	97141	0.065	0.082	0.864	>0.226	0.785	>0.226
UG/M3	B7						
LEAD,AIR	97164	<0.008	<0.008	0.022	0.044	0.021	0.019
UG/M3	B7						
ZINC,AIR	97166	<0.485	<0.485	<0.485	2.45	<0.485	<0.485
UG/M3	B7						
ARSENIC,AIR	97138	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
UG/M3	B7						
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR
	0						
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0						
SAMPLE DEPTH	99758	-215	-120	-120	-120	-120	-120
CM	0						
SAMPLING TECHNIQUE	72005	H	H	H	H	H	H
	0						
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK
SAMPLE	0						

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PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1HG PROJECT MANAGER
EHGX LAB COORDINATOR DAVE POWELL

		SAMPLE ID/#									
PARAMETERS	STORET #	AQ1	AQ3	AQ36-2	AQ5	AQ9	AQ9	AQ8	AQ36-3	AQ1	AQ3
		E1HG	E1HG	E1HG	E1HG	E1HG	E1HG	E1HG	E1HG	E5HG	E5HG
UNITS	METHOD	1	2	3	4	5	6	7	8	1	2
DATE		04/17/87	04/17/87	04/17/87	04/17/87	04/17/87	04/17/87	04/17/87	04/17/87	06/05/87	06/05/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
MERCURY,AIR	97165	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063
UG/M3	A7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
CM	0										
SAMPLING TECHNIQUE	72005	K	K	K	K	K	K	K	K	K	K
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										

PROJECT NUMBER 86927 0500
FIELD GROUP EIHG
EHGX

PROJECT NAME RMA AIR (TASK18)
PROJECT MANAGER
LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# AQ36-2	AQ5	AQ9	AQ9	AQ8	AQ36-3	AQ1	AQ3	AQ36-3	AQ5
UNITS	METHOD	E5HG 3	E5HG 4	E5HG 5	E5HG 6	E5HG 7	E5HG 8	E6HG 1	E6HG 2	E6HG 3	E6HG 4
DATE		06/05/87	06/05/87	06/05/87	06/05/87	06/05/87	06/05/87	08/29/87	08/29/87	08/29/87	08/29/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
MERCURY,AIR	97165	<0.063	NA	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063
UG/M3	A7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
CM	0										
SAMPLING TECHNIQUE	72005	K	K	K	K	K	K	K	K	K	K
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1HG PROJECT MANAGER
EHGX LAB COORDINATOR DAVE POWELL

		SAMPLE ID/#									
PARAMETERS	STORET #	AQ6	AQ9	AQ36-2	AQ8	AQ1	AQ3	AQ6	AQ5	AQ9	AQ36-2
		E6HG	E6HG	E6HG	E6HG	E7HG	E7HG	E7HG	E7HG	E7HG	E7HG
UNITS	METHOD	5	6	7	8	1	2	3	4	5	6
DATE		08/29/87	08/29/87	08/29/87	08/29/87	09/01/87	09/01/87	09/01/87	09/01/87	09/01/87	09/01/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
MERCURY,AIR	97165	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063
UG/M3	A7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
CM	0										
SAMPLING TECHNIQUE	72005	K	K	K	K	K	K	K	K	K	K
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1HG PROJECT MANAGER
EHGX LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# AQ8	AQ36-3	AQ1	AQ3	AQ6	AQ5	AQ8	AQ36-3	AQ9	AQ36-2
UNITS	METHOD	E7HG 7	E7HG 8	E8HG 1	E8HG 2	E8HG 3	E8HG 4	E8HG 5	E8HG 6	E8HG 7	E8HG 8
DATE		09/01/87	09/01/87	09/03/87	09/03/87	09/03/87	09/03/87	09/03/87	09/03/87	09/03/87	09/03/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
MERCURY,AIR	97165	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063
UG/M3	A7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
CM	0										
SAMPLING TECHNIQUE	72005	K	K	K	K	K	K	K	K	K	K
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)
FIELD GROUP E1HG PROJECT MANAGER
EHGX LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# AQ9	AQ8	AQ36-3	AQ36-2	AQ1	AQ3	AQ36-3	AQ8	AQ1	AQ36-3
UNITS	METHOD	E9HG 5	E9HG 6	E9HG 7	E9HG 8	E10HG 1	E10HG 2	E10HG 4	E10HG 5	E11HG 1	E11HG 2
DATE		09/09/87	09/09/87	09/09/87	09/09/87	06/25/87	06/25/87	06/25/87	06/25/87	07/09/87	07/09/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
MERCURY,AIR	97165	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	NA	<0.063	<0.063	<0.063
UG/M3	A7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
CM	0										
SAMPLING TECHNIQUE	72005	K	K	K	K	K	K	K	K	K	K
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										

PROJECT NUMBER 86927 0500
FIELD GROUP E1HG
EHGX

PROJECT NAME RMA AIR (TASK18)
PROJECT MANAGER
LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	SAMPLE ID/# AQ3	AQ5	AQ6	AQ36-2	AQ9	AQ8	AQ8	AQ9	AQ36-3	AQ5
UNITS	METHOD	E11HG 3	E11HG 4	E11HG 5	E11HG 6	E11HG 7	E11HG 8	E12HG 1	E12HG 2	E12HG 3	E12HG 4
DATE		07/09/87	07/09/87	07/09/87	07/09/87	07/09/87	07/09/87	07/16/87	07/16/87	07/16/87	07/16/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
MERCURY,AIR	97165	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063
UG/M3	A7										
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	0										
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
	0										
SAMPLE DEPTH	99758	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
CM	0										
SAMPLING TECHNIQUE	72005	K	K	K	K	K	K	K	K	K	K
	0										
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE	0										

PROJECT NUMBER 86927 0500
FIELD GROUP E1HG
EHGX

PROJECT NAME RMA AIR (TASK18)
PROJECT MANAGER
LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET #	AQ1	AQ6	AQ3	AQ36-2
		SAMPLE ID/#			
UNITS	METHOD	E12HG 5	E12HG 6	E12HG 7	E12HG 8
DATE		07/16/87	07/16/87	07/16/87	07/16/87
TIME		00:00	00:00	00:00	00:00
MERCURY,AIR	97165	<0.063	<0.063	<0.063	<0.063
UG/M3	A7				
SAMPLE TYPE	71999	AR	AR	AR	AR
	0				
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO
	0				
SAMPLE DEPTH	99758	-150	-150	-150	-150
CM	0				
SAMPLING TECHNIQUE	72005	K	K	K	K
	0				
INSTALLATION CODE	99720	RK	RK	RK	RK
SAMPLE	0				

APPENDIX C
PARTICULATE MATTER
DATA SUMMARY

Table C.1. Total Suspended Particulates (TSP) Data Summary

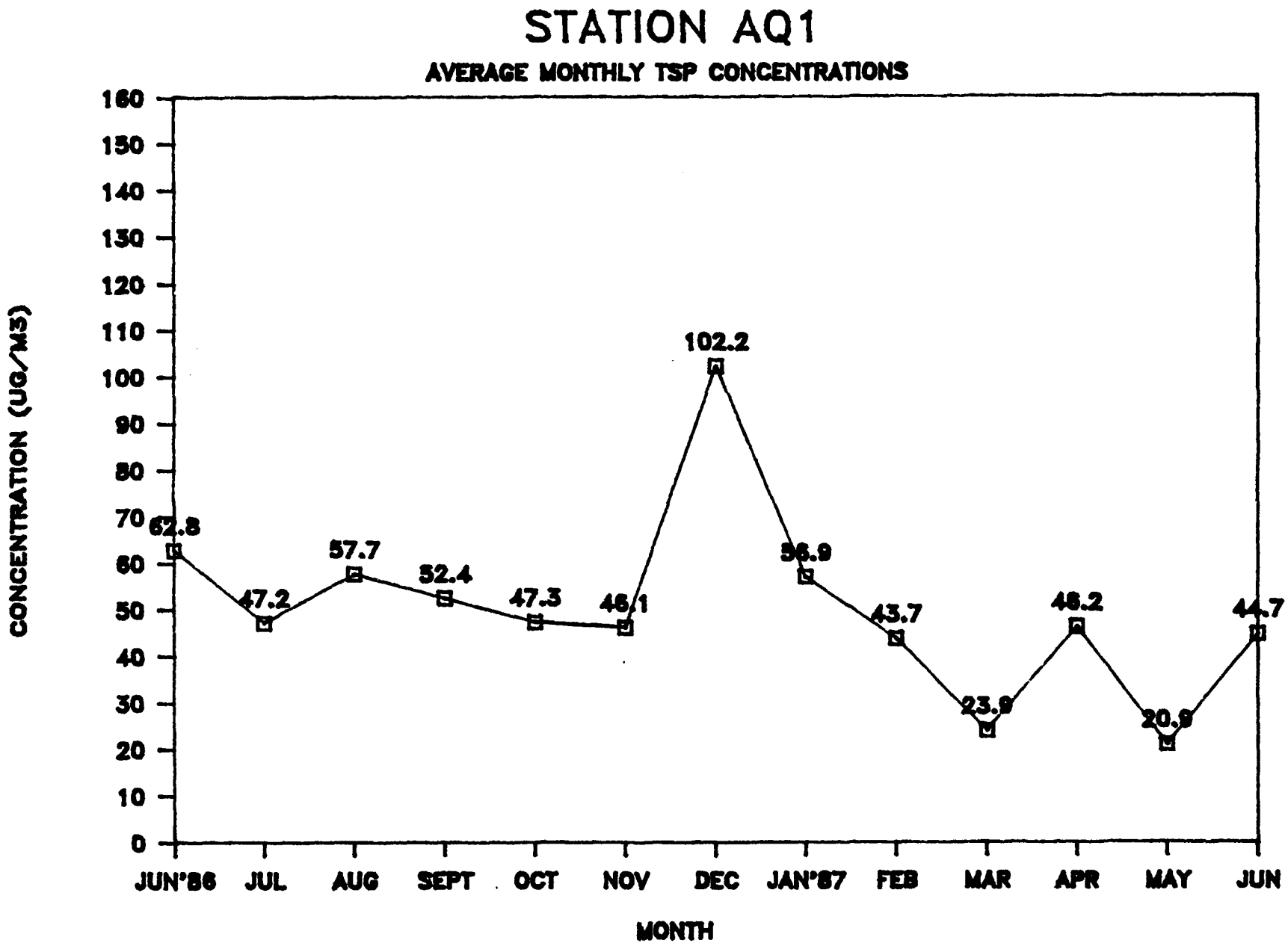
Month	Average Monthly TSP Concentration (ug/m^3)*												
	AQ1	AQ2	AQ3	AQ4	AQ5	AQ6	AQ7	AQ8	AQ9	AQ9x	AQ10	AQ11	AQ12
June 1986	62.8	79.3	48.9	39.3	36.2	36.9	—	43.6	39.0	—	50.2	45.1	46.1
July	47.2	64.3	42.4	46.8	—	33.1	41.2	41.4	46.0	—	46.0	46.6	42.9
August	57.7	61.4	41.8	—	—	—	42.7	48.5	55.3	—	45.5	46.6	40.4
September	52.4	53.0	36.7	—	—	—	40.6	40.6	40.5	—	—	38.9	35.3
October	47.3	37.1	21.4	—	41.6	44.6	27.9	26.4	20.7	44.4	—	22.9	20.9
November	46.1	45.4	24.5	—	29.7	27.9	28.7	36.3	20.8	25.6	—	26.3	24.2
December	102.2	78.3	50.9	—	77.6	60.9	68.1	68.9	57.7	58.6	—	62.1	53.0
January 1987	56.9	41.6	28.2	—	39.2	41.8	32.7	25.6	29.7	29.5	—	27.6	26.4
February	43.7	—	25.6	—	33.6	29.3	28.4	32.8	28.9	28.8	—	26.2	23.9
March	23.9	25.4	15.4	—	20.0	16.0	15.8	19.3	17.4	13.6	5.9	18.4	20.8
April	46.2	36.4	30.2	—	40.1	31.9	36.0	35.6	32.0	31.4	—	39.2	30.9
May	20.9	24.6	16.8	—	17.6	21.5	19.2	15.4	14.6	15.8	—	19.9	16.8
June	44.7	54.9	43.6	—	42.9	41.3	42.7	42.9	43.5	45.0	—	45.1	43.4
Annual Average	46.8	46.9	30.6	(429)**	(35.0)**	(33.1)**	33.0	34.3	31.5	29.6	(28.1)**	33.5	30.8
Range of Individual 24-hour samples	7.1-143.3	11.5-111.9	4.4-80.5	38.5-46.8	5.7-109.1	6.2-151.4	6.2-100.8	7.3-95.1	5.4-81.5	6.6-83.4	5.9-70.7	5.6-90.8	5.8-77.1

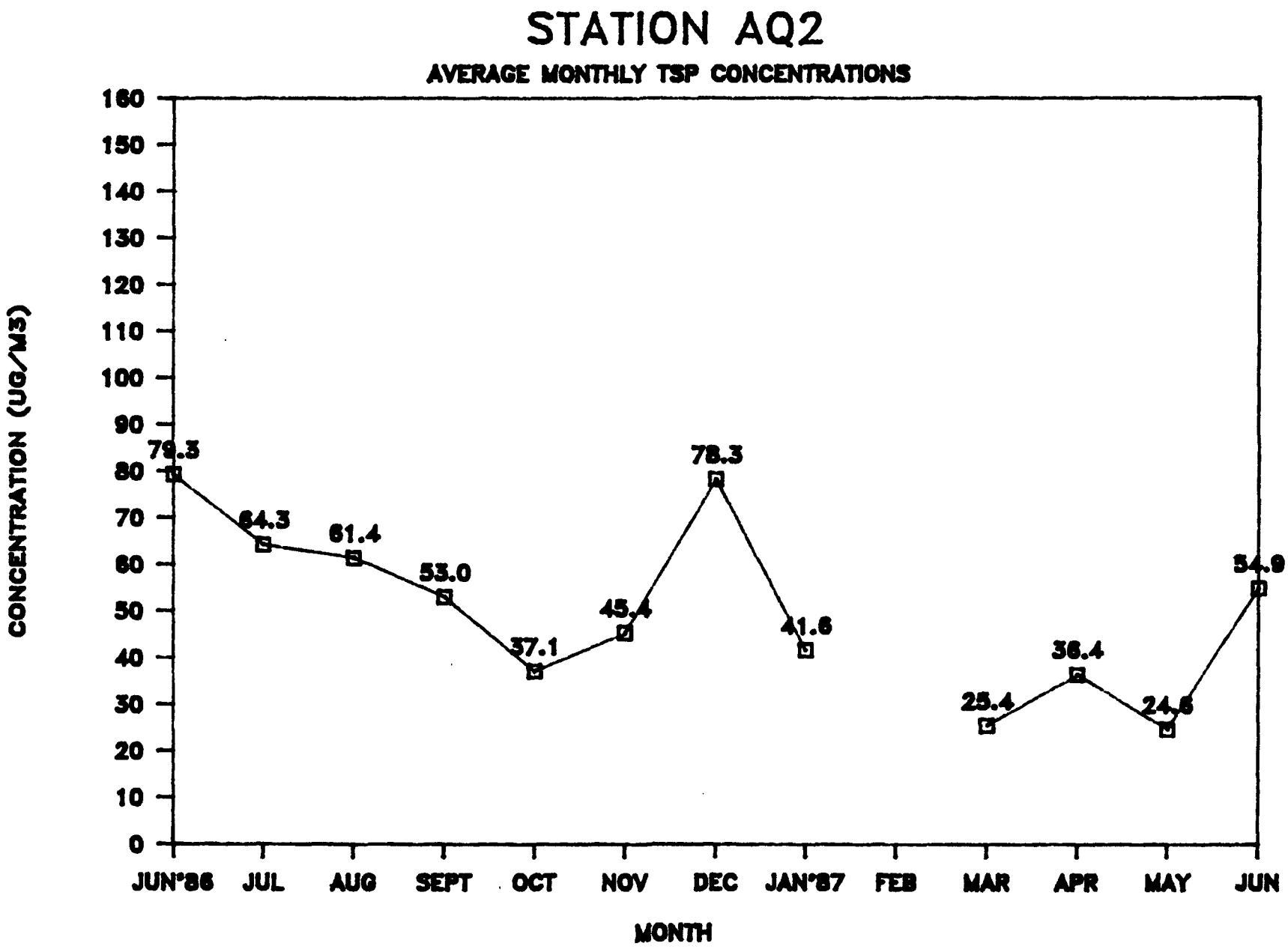
* Federal/State TSP Standards - Annual Primary - 75 ug/m^3
Secondary - 60 ug/m^3

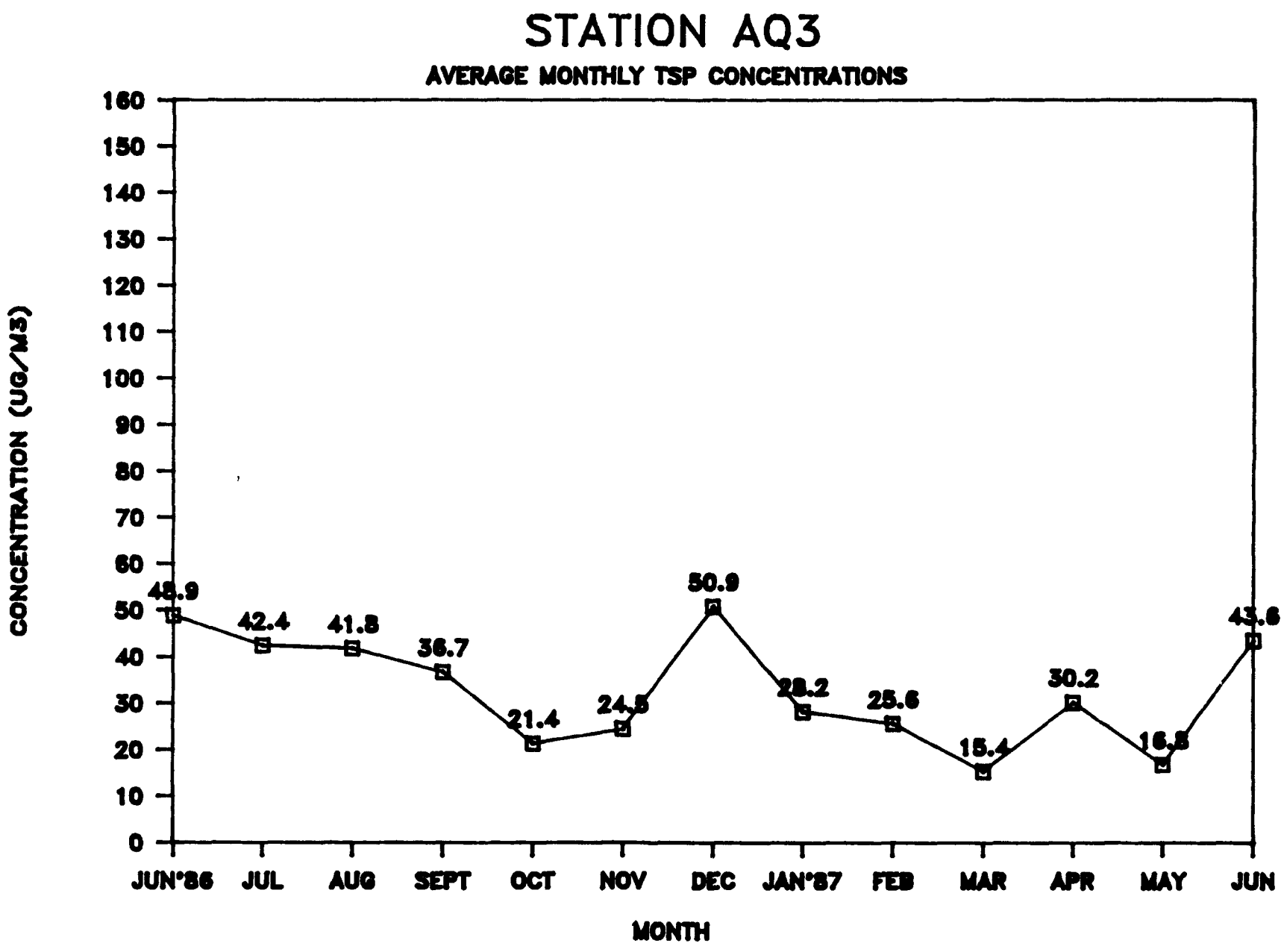
24-Hour Primary - 260 ug/m^3
Secondary - 150 ug/m^3

** Incomplete Sampling Frequency.

APPENDIX C.1
TSP SUMMARY

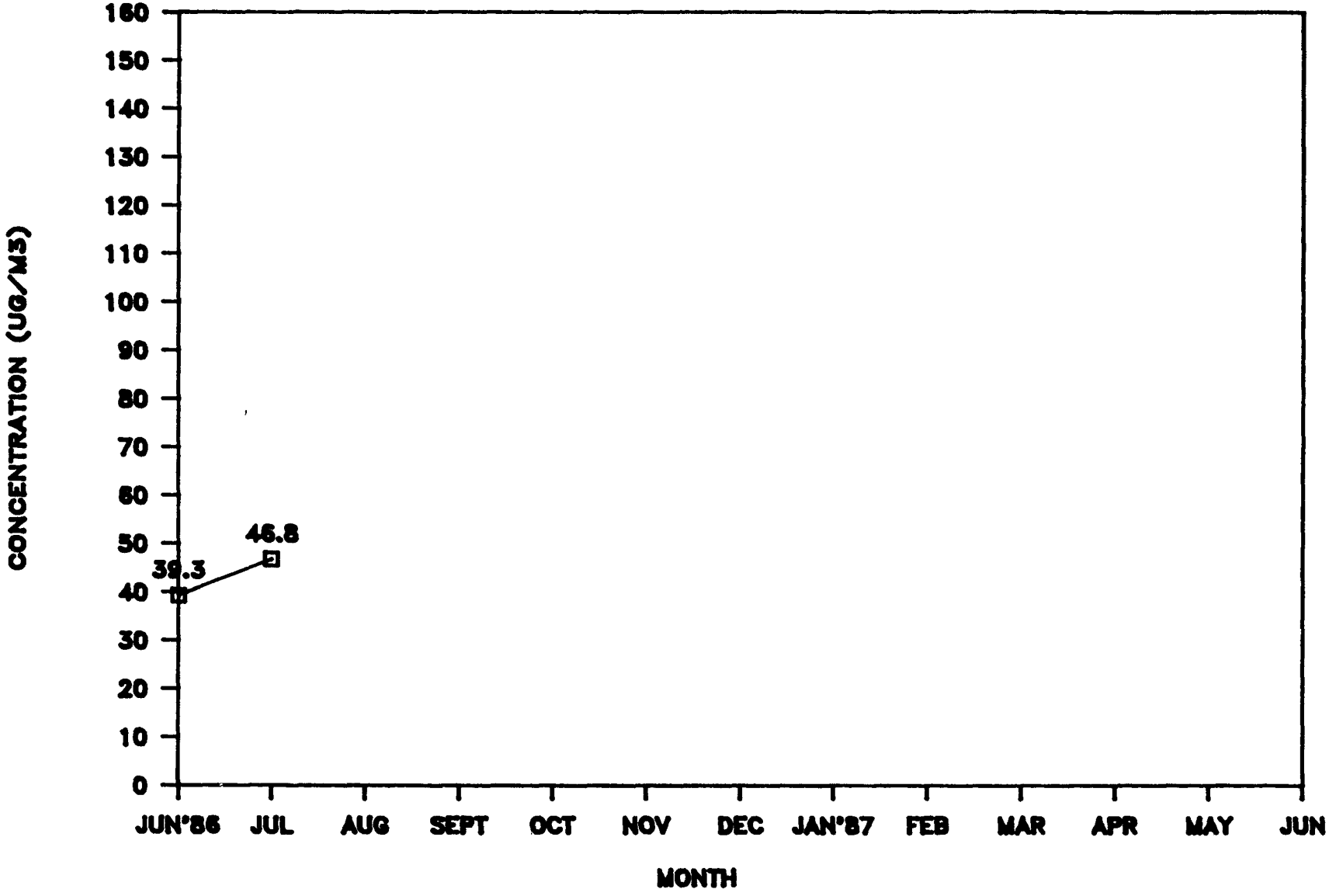

STATION AQ1
AVERAGE MONTHLY TSP CONCENTRATIONS
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
62.8
47.2
57.7
52.4
47.3
46.1
102.2
56.9
43.7
23.9
46.2
20.9
44.7
JUN'86
JUL
AUG
SEPT
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
JUN
MONTH

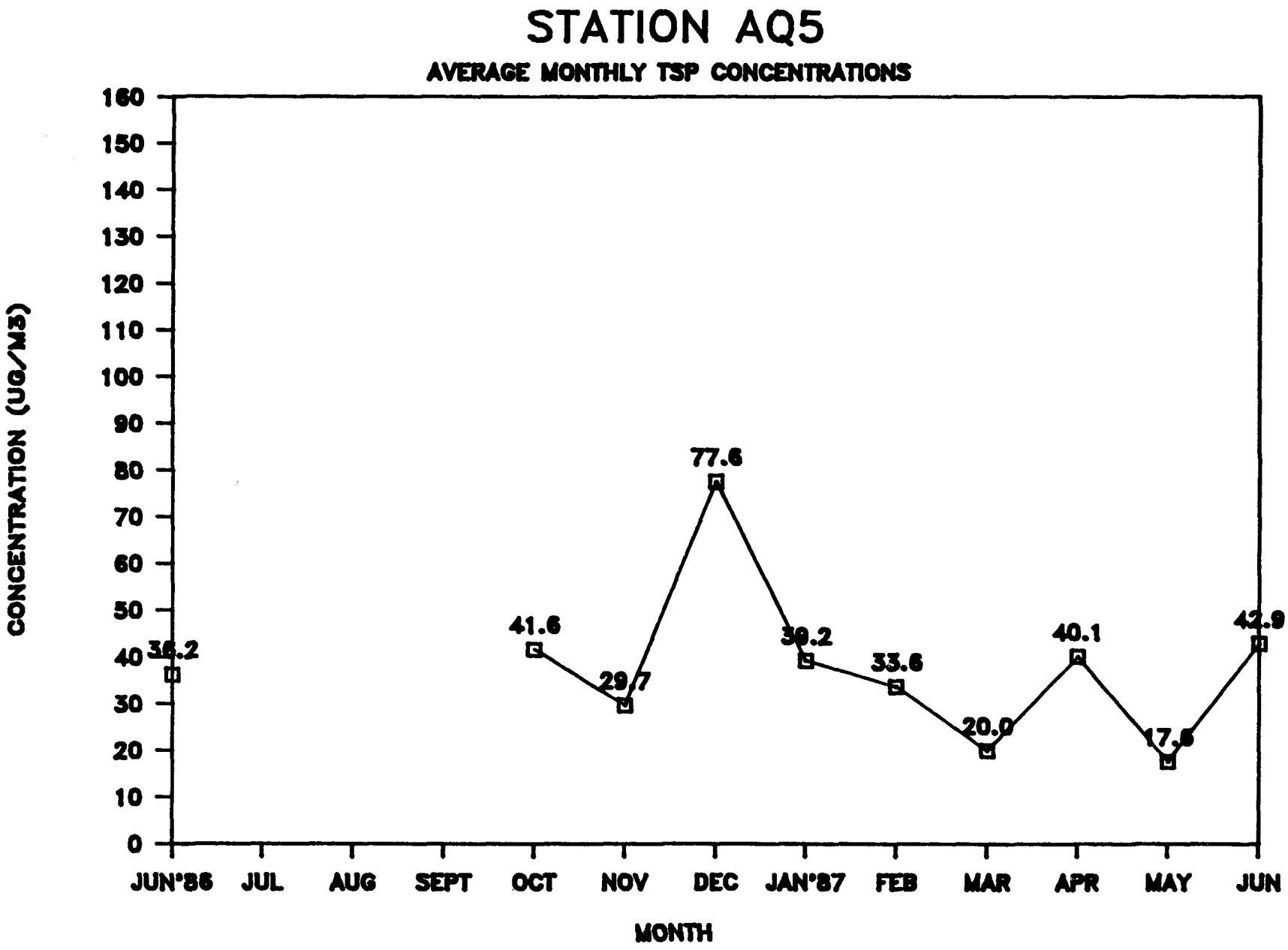

STATION AQ2
AVERAGE MONTHLY TSP CONCENTRATIONS
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
79.3
64.3
61.4
53.0
37.1
45.4
78.3
41.6
25.4
36.4
24.6
54.9
JUN'86
JUL
AUG
SEPT
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
JUN
MONTH

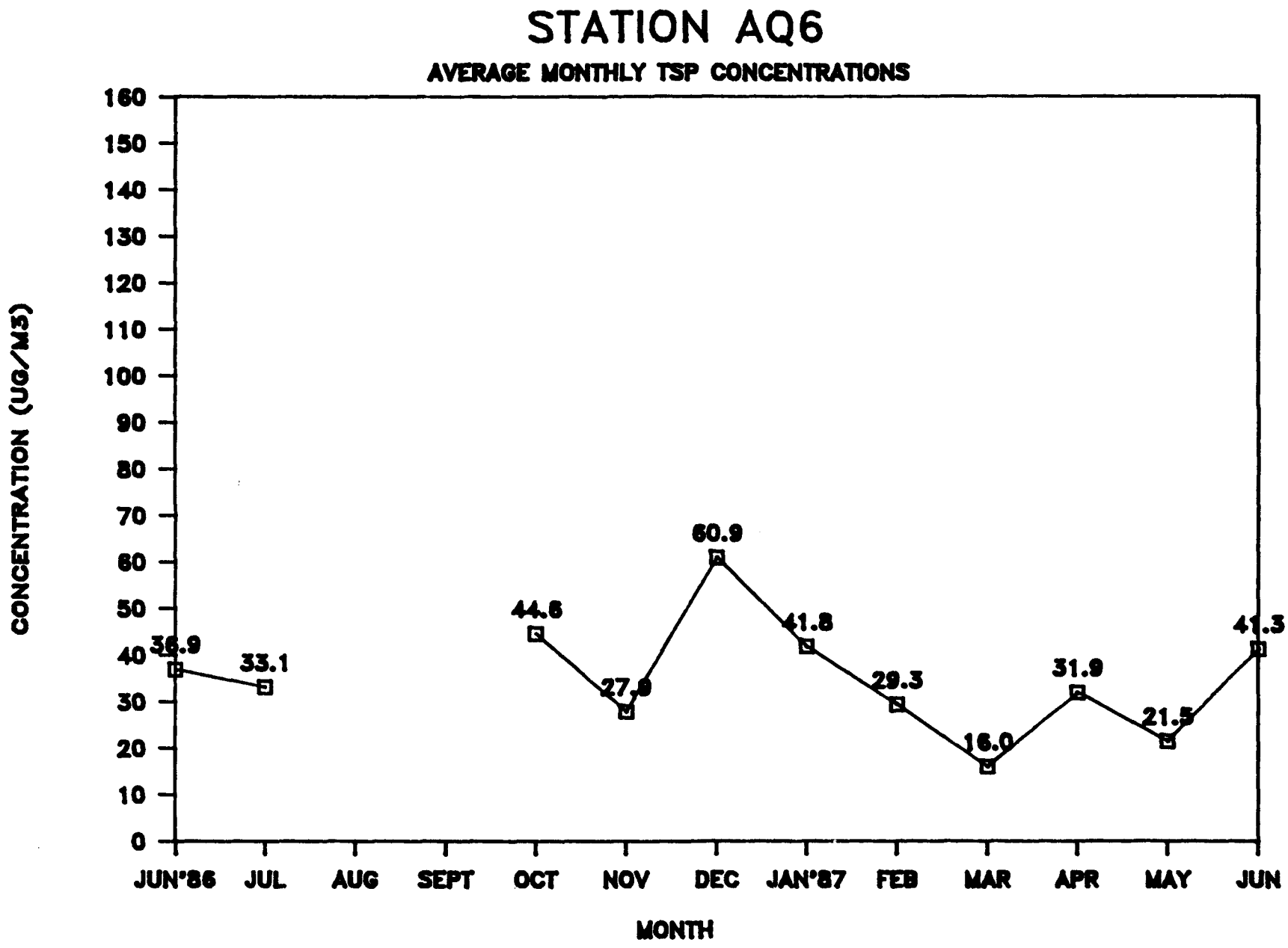

STATION AQ3
AVERAGE MONTHLY TSP CONCENTRATIONS
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
48.9
42.4
41.8
36.7
21.4
24.5
50.9
28.2
25.6
15.4
30.2
16.5
43.6
JUN'86
JUL
AUG
SEPT
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
JUN
MONTH

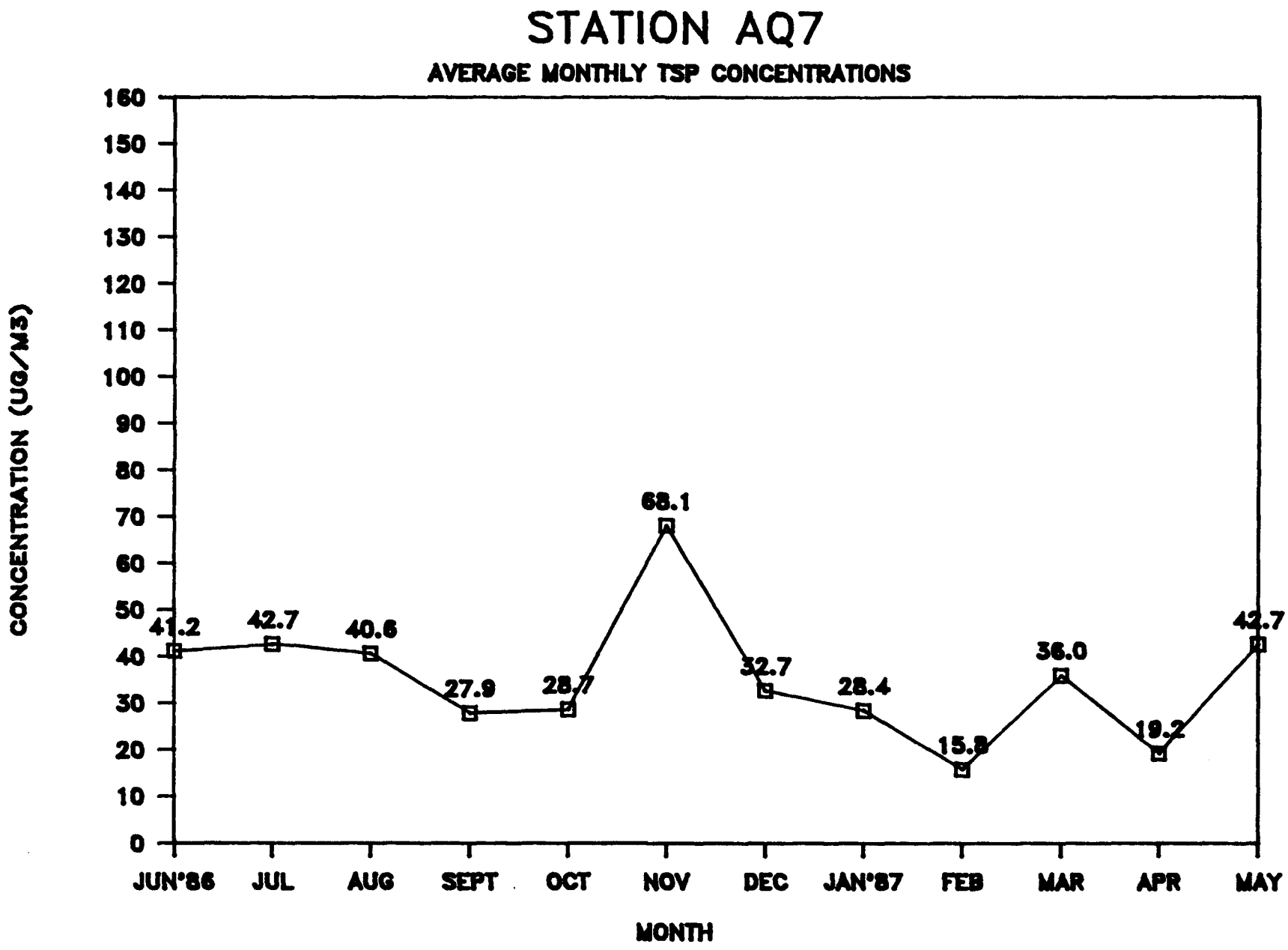
STATION AQ4

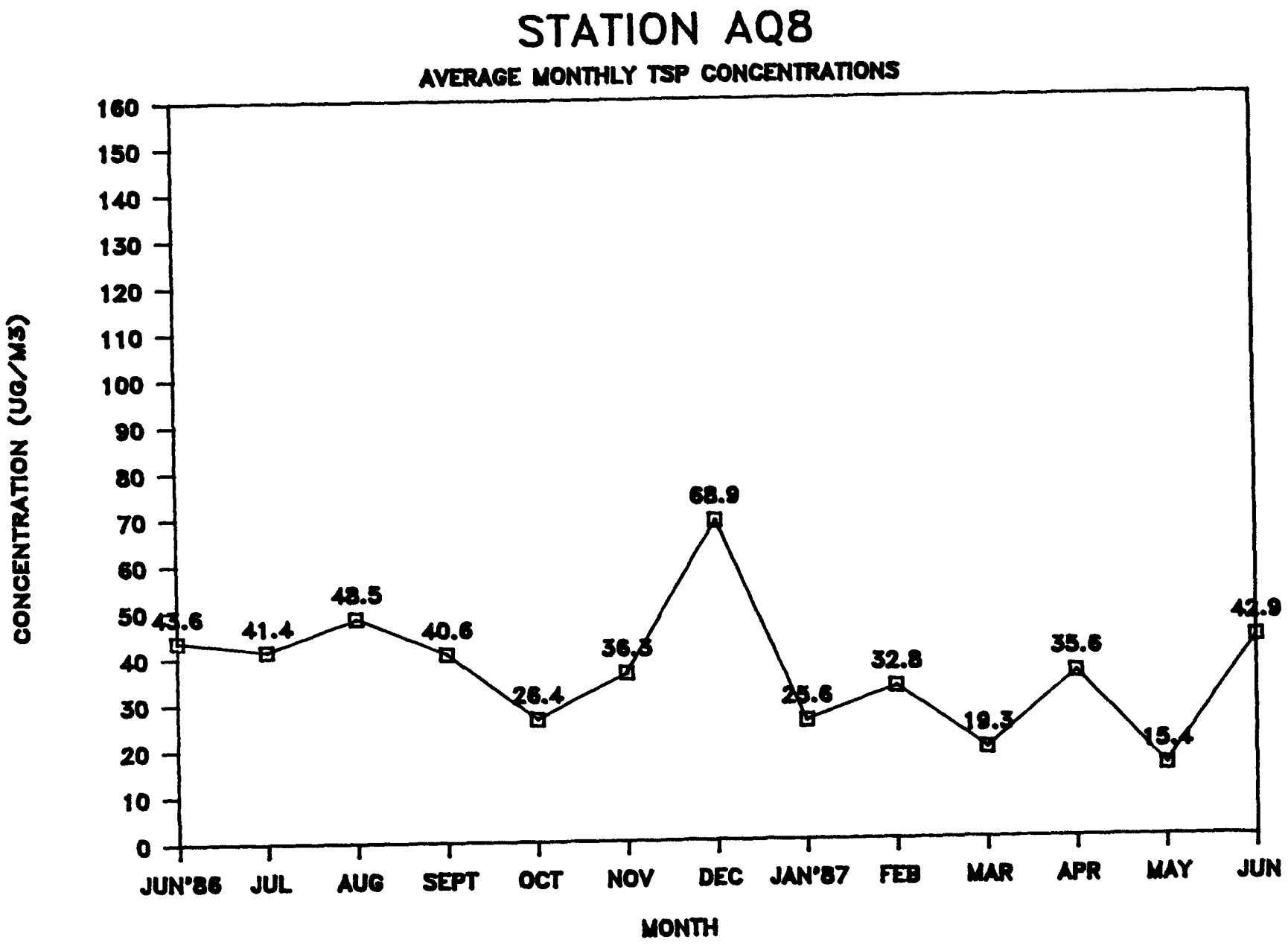
AVERAGE MONTHLY TSP CONCENTRATIONS




STATION AQ5
AVERAGE MONTHLY TSP CONCENTRATIONS
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
36.2
41.6
29.7
77.6
39.2
33.6
20.0
40.1
17.6
42.9
JUN'86
JUL
AUG
SEPT
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
JUN
MONTH


STATION AQ6
AVERAGE MONTHLY TSP CONCENTRATIONS
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
36.9
33.1
44.6
27.9
60.9
41.8
29.3
16.0
31.9
21.5
41.3
JUN'86
JUL
AUG
SEPT
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
JUN
MONTH


STATION AQ7
AVERAGE MONTHLY TSP CONCENTRATIONS
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
41.2
42.7
40.6
27.9
28.7
68.1
32.7
28.4
15.8
36.0
19.2
42.7
JUN'86
JUL
AUG
SEPT
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
MONTH


STATION AQ8
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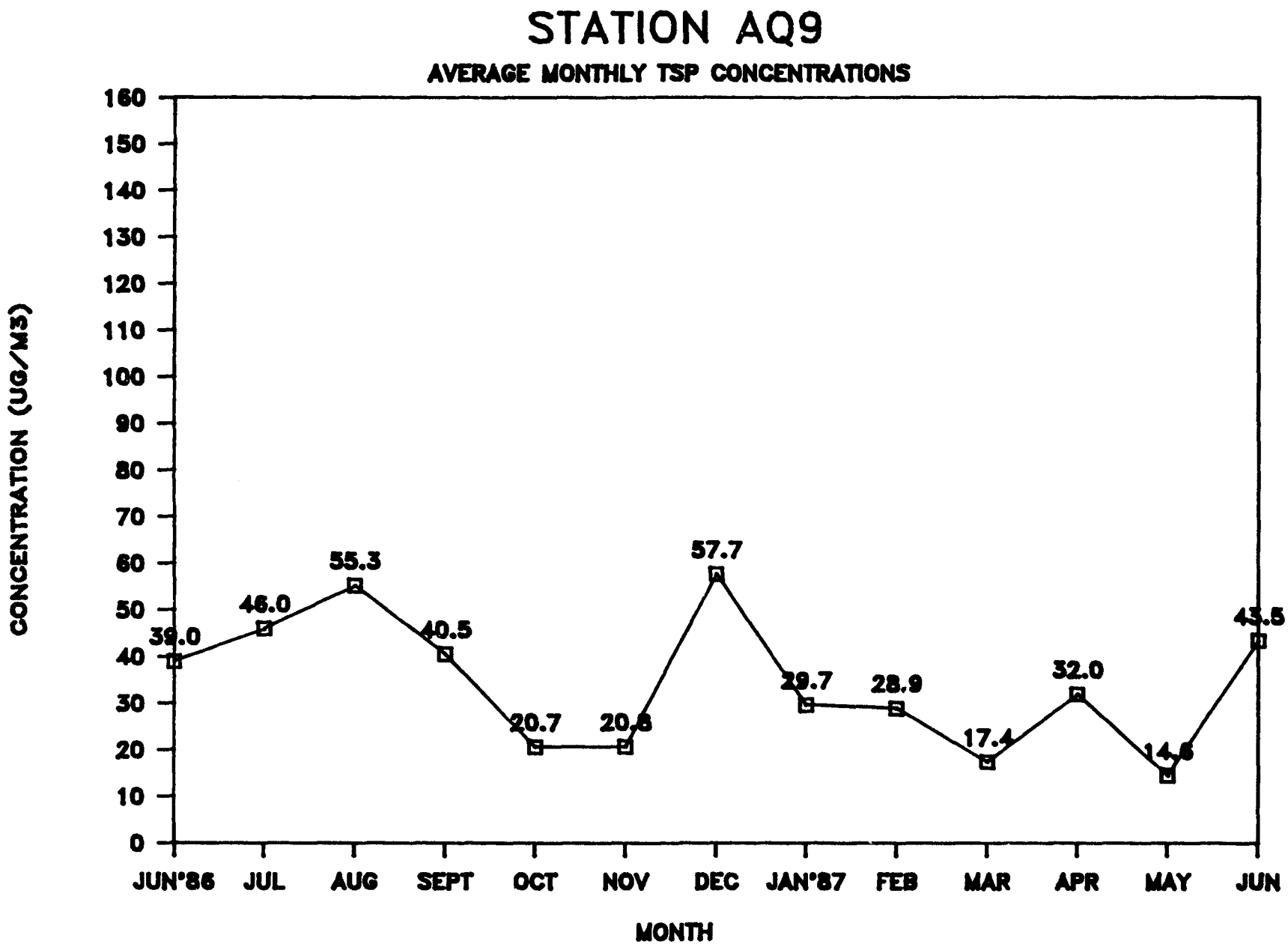
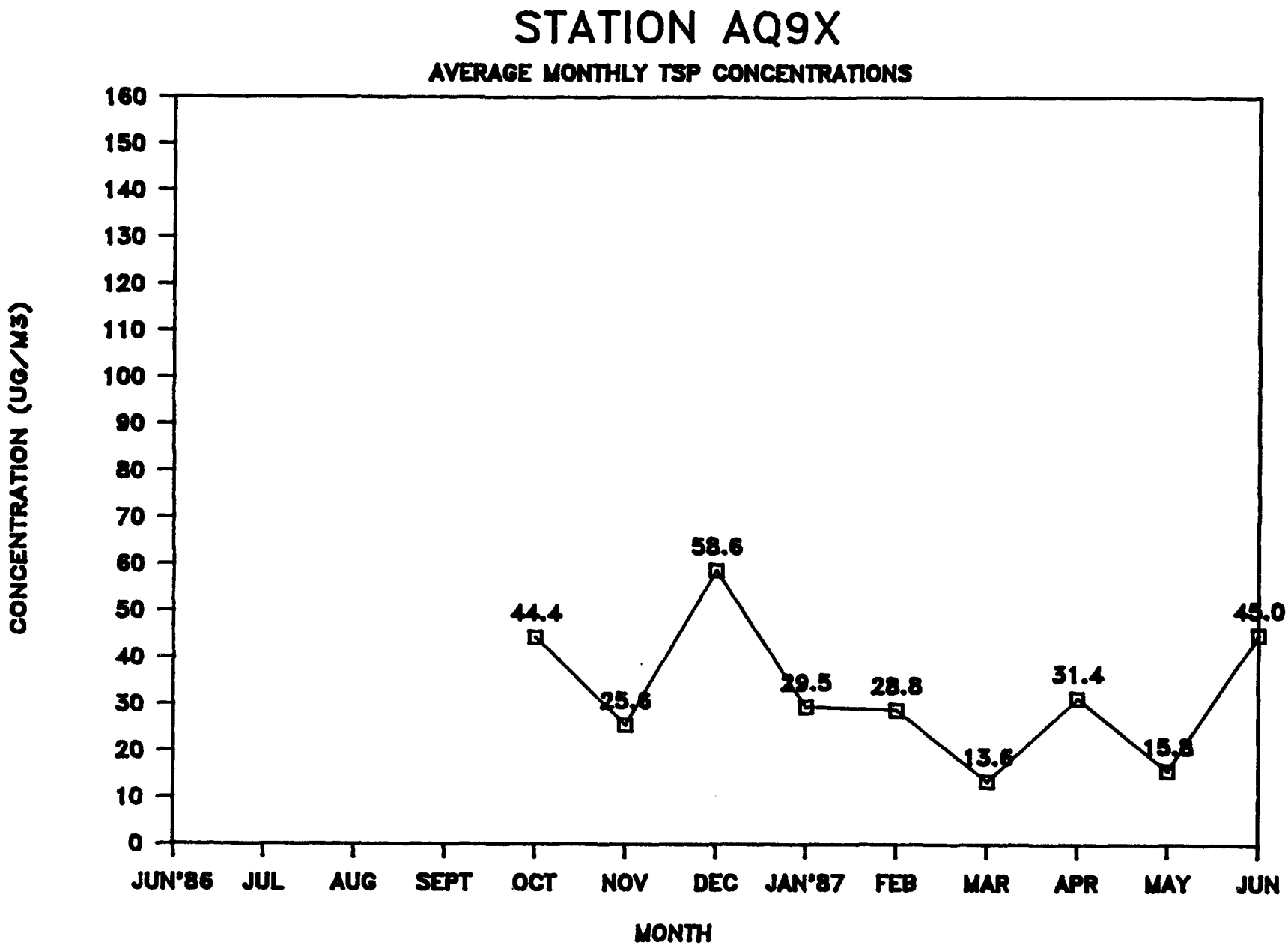
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
43.6
41.4
48.5
40.6
26.4
36.3
68.9
25.6
32.8
19.3
35.6
15.4
42.9
JUN'86
JUL
AUG
SEPT
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
JUN
MONTH


STATION AQ9
AVERAGE MONTHLY TSP CONCENTRATIONS
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
39.0
46.0
55.3
40.5
20.7
20.8
57.7
29.7
28.9
17.4
32.0
14.6
43.5
JUN'86
JUL
AUG
SEPT
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
JUN
MONTH


STATION AQ9X
AVERAGE MONTHLY TSP CONCENTRATIONS
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
44.4
25.6
58.6
29.5
28.8
13.6
31.4
15.8
45.0
JUN'86
JUL
AUG
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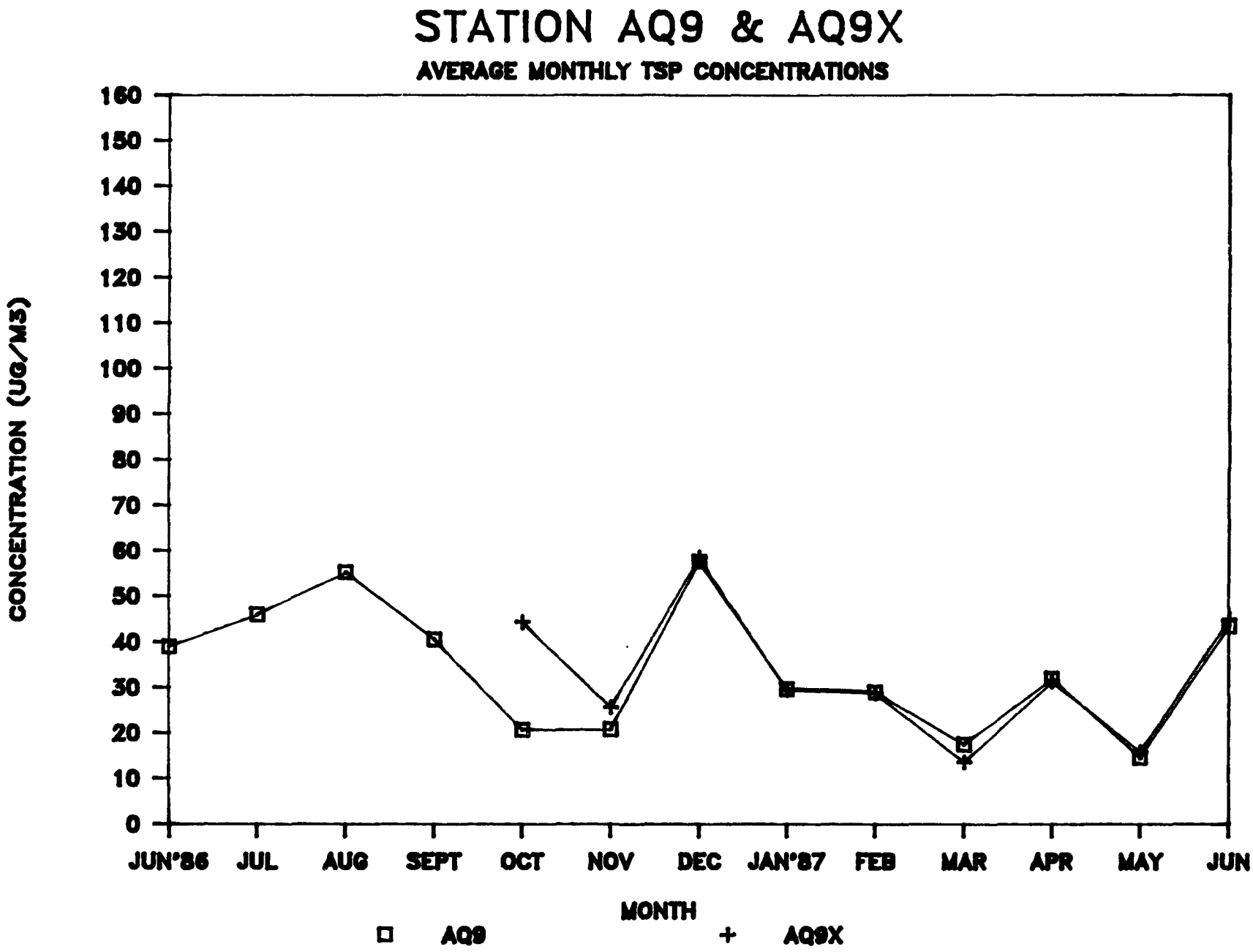
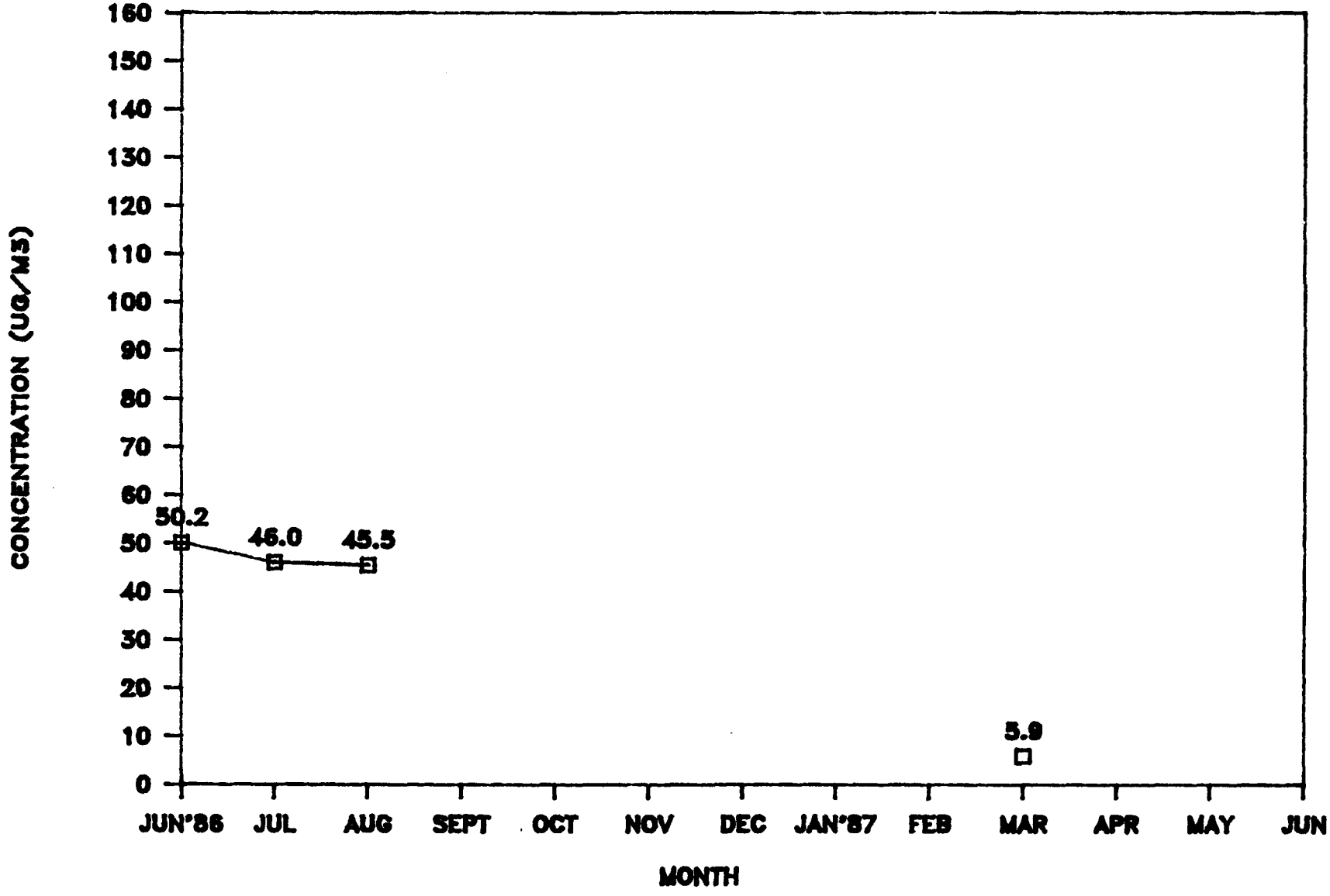
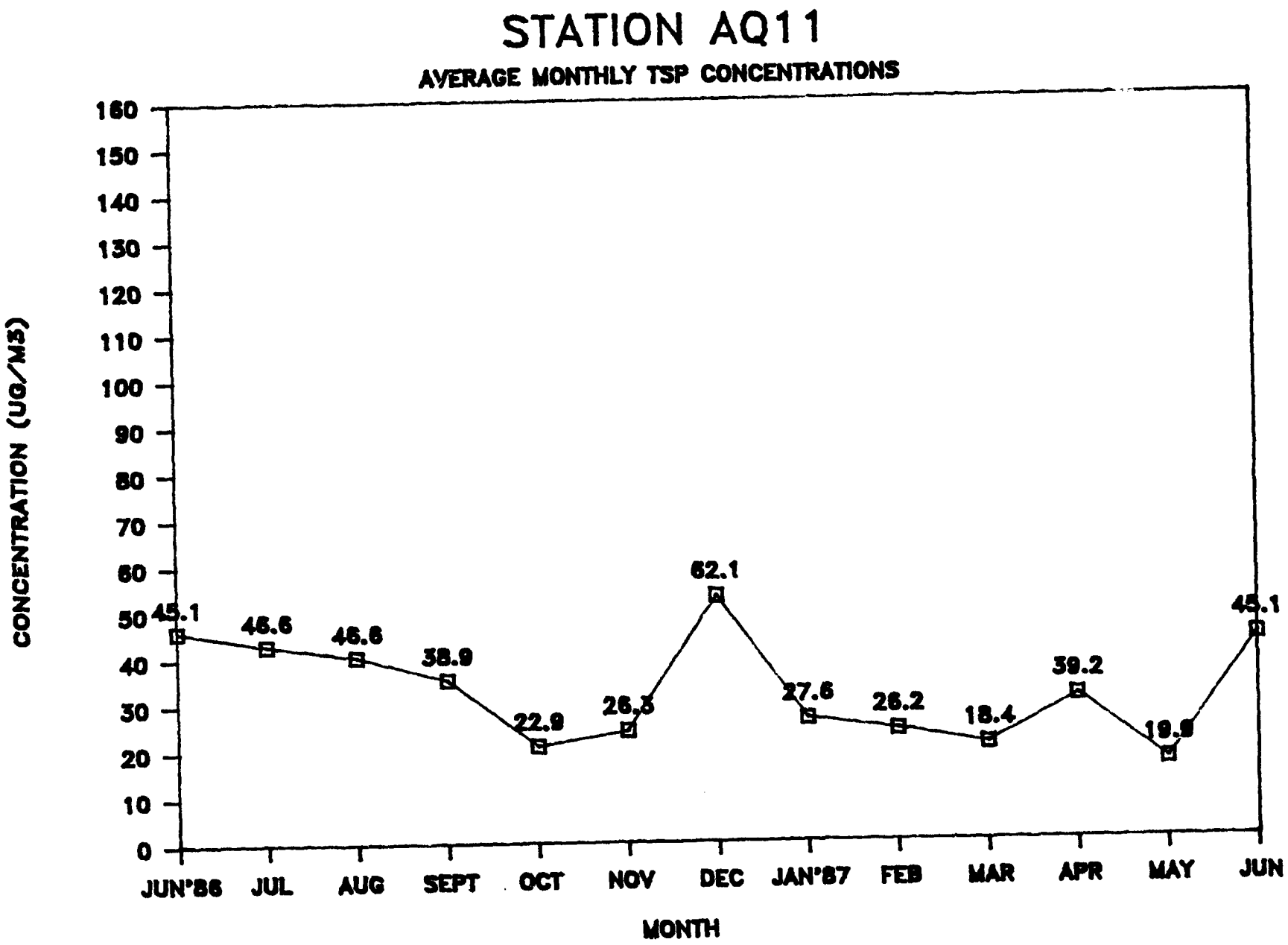
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
JUN
MONTH

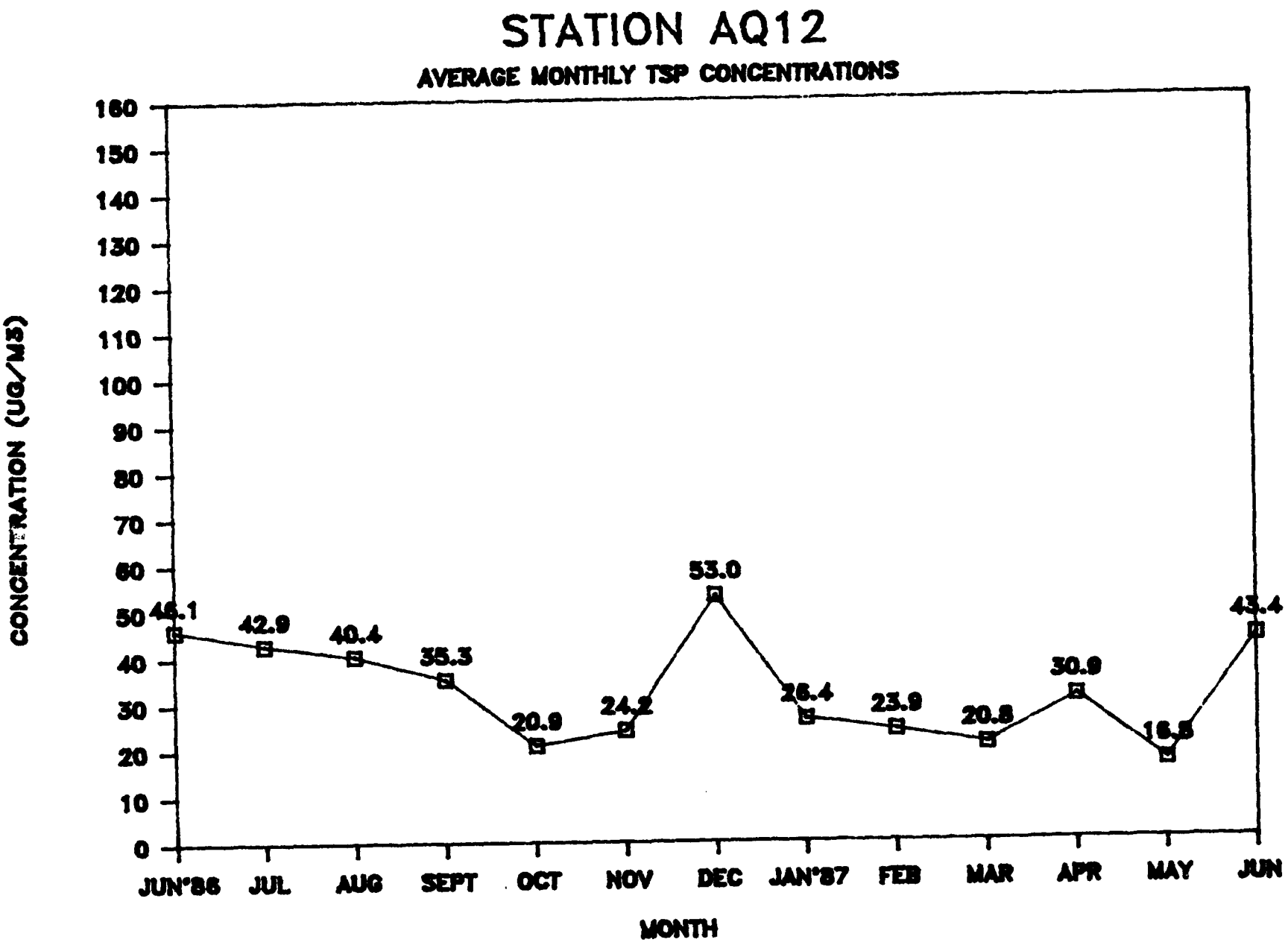

STATION AQ9 & AQ9X
AVERAGE MONTHLY TSP CONCENTRATIONS
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
JUN'86
JUL
AUG
SEPT
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
JUN
MONTH
AQ9
AQ9X

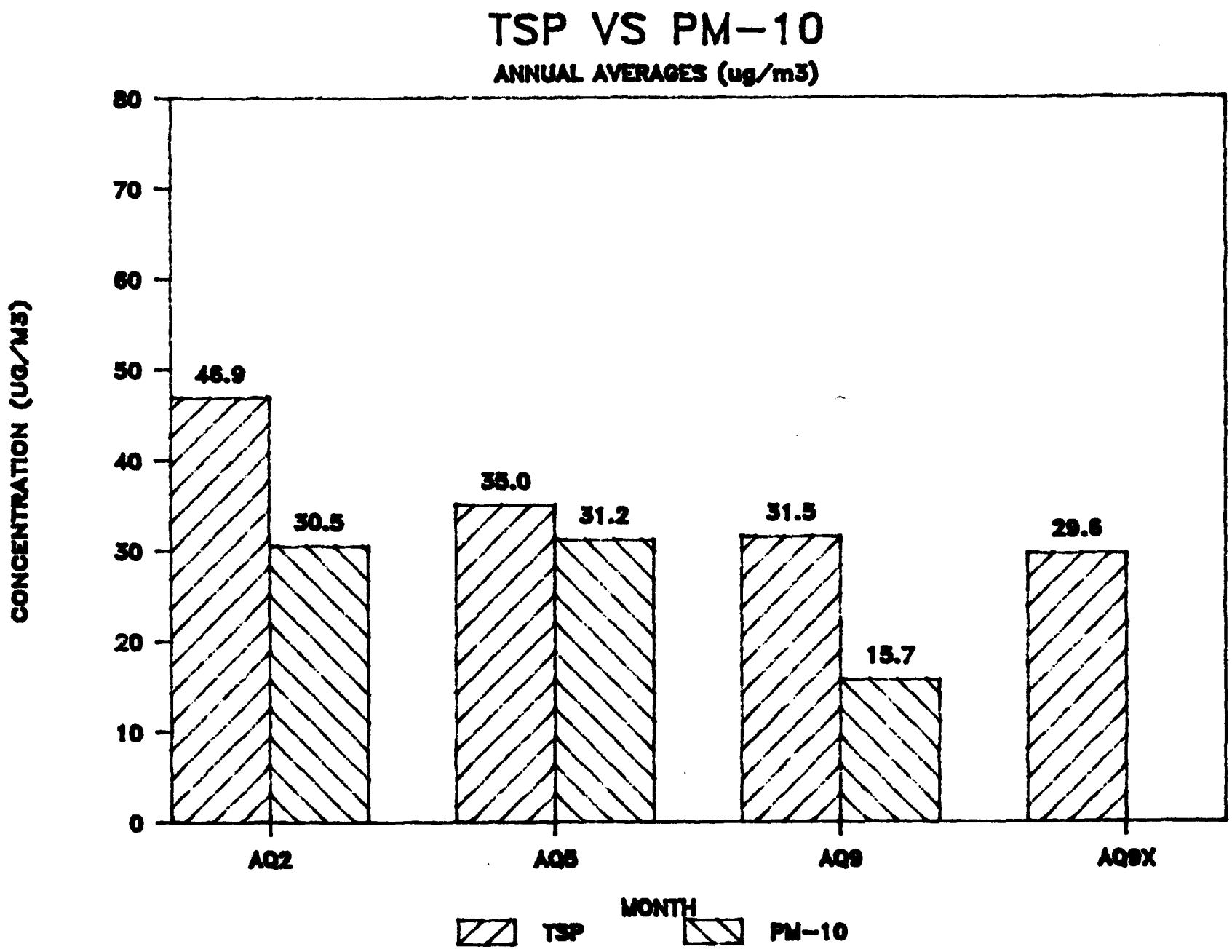
STATION AQ10

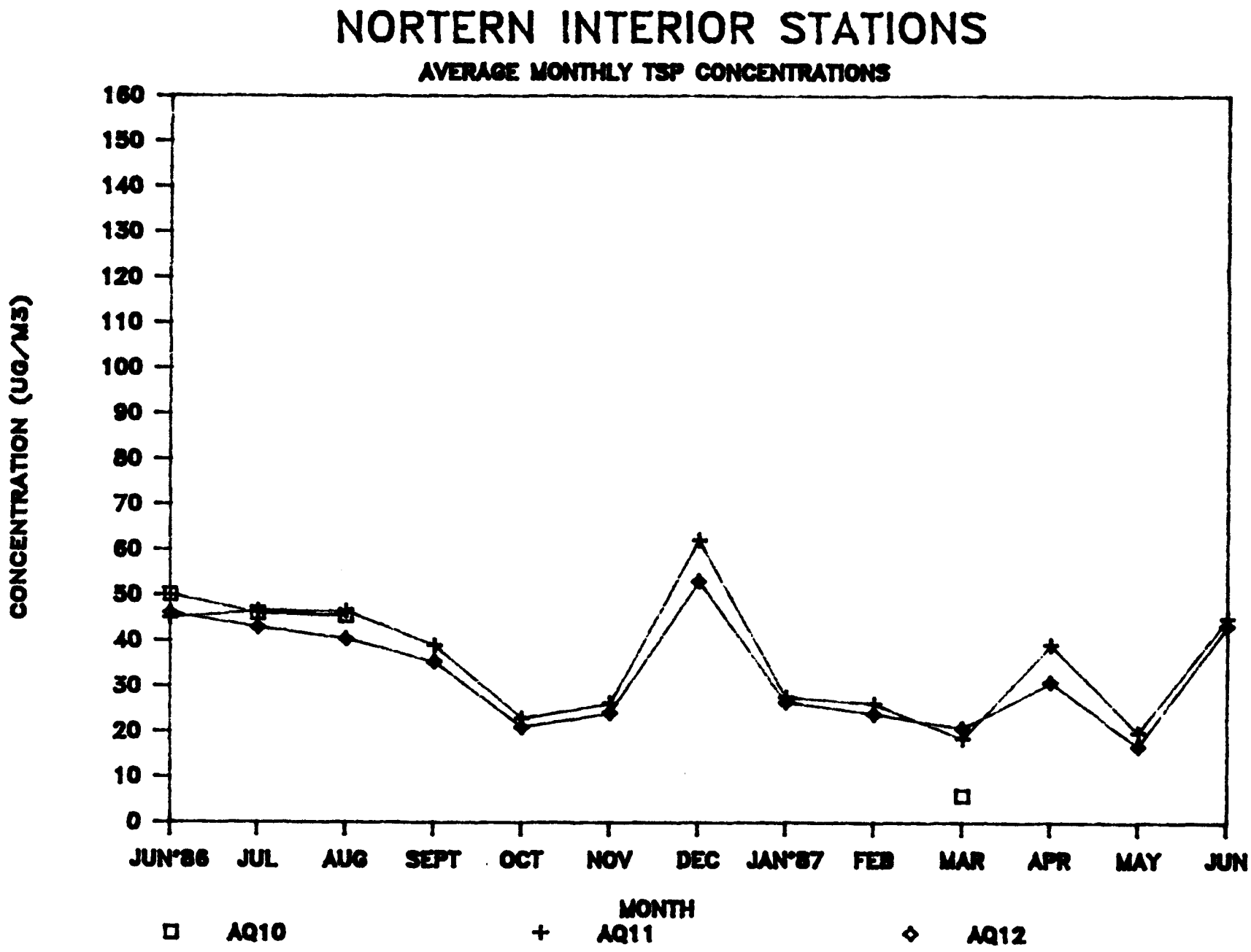
AVERAGE MONTHLY TSP CONCENTRATIONS

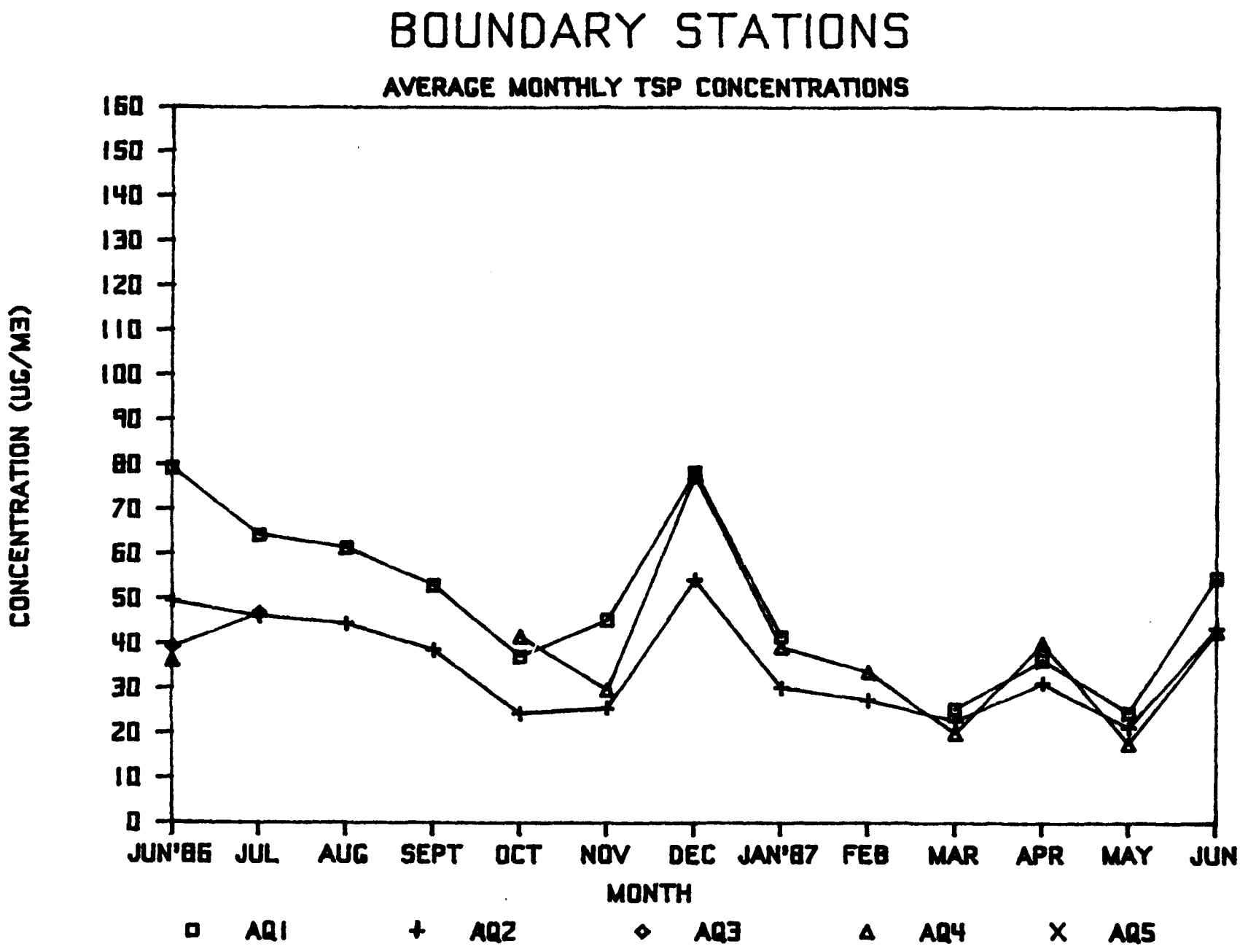



STATION AQ11
AVERAGE MONTHLY TSP CONCENTRATIONS
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
45.1
46.6
46.6
38.9
22.9
26.3
62.1
27.6
26.2
18.4
39.2
19.9
45.1
JUN'86
JUL
AUG
SEPT
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
JUN
MONTH

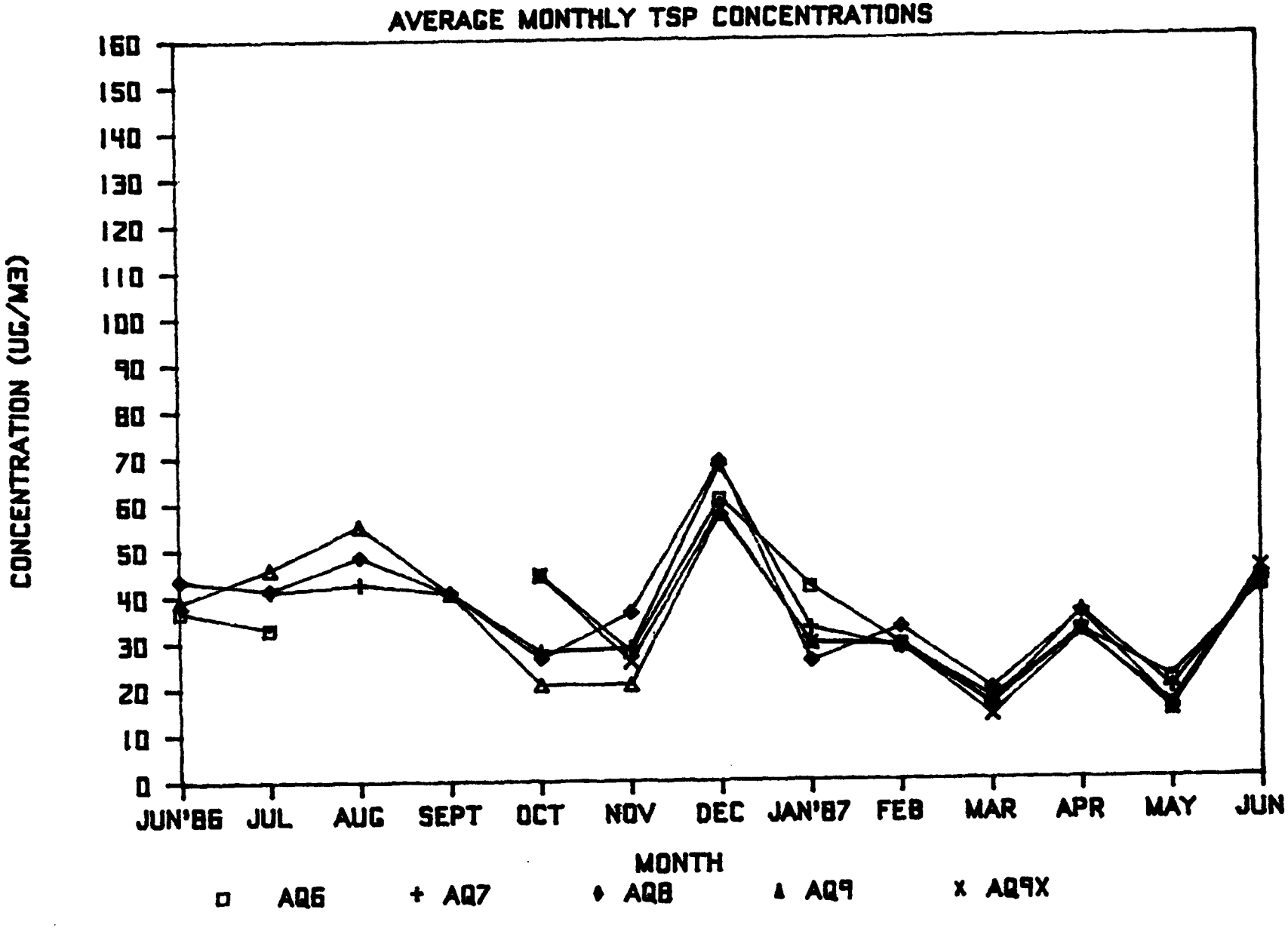

STATION AQ12
AVERAGE MONTHLY TSP CONCENTRATIONS
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
46.1
42.9
40.4
35.3
20.9
24.2
53.0
26.4
23.9
20.8
30.9
16.5
43.4
JUN'86
JUL
AUG
SEPT
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
JUN
MONTH

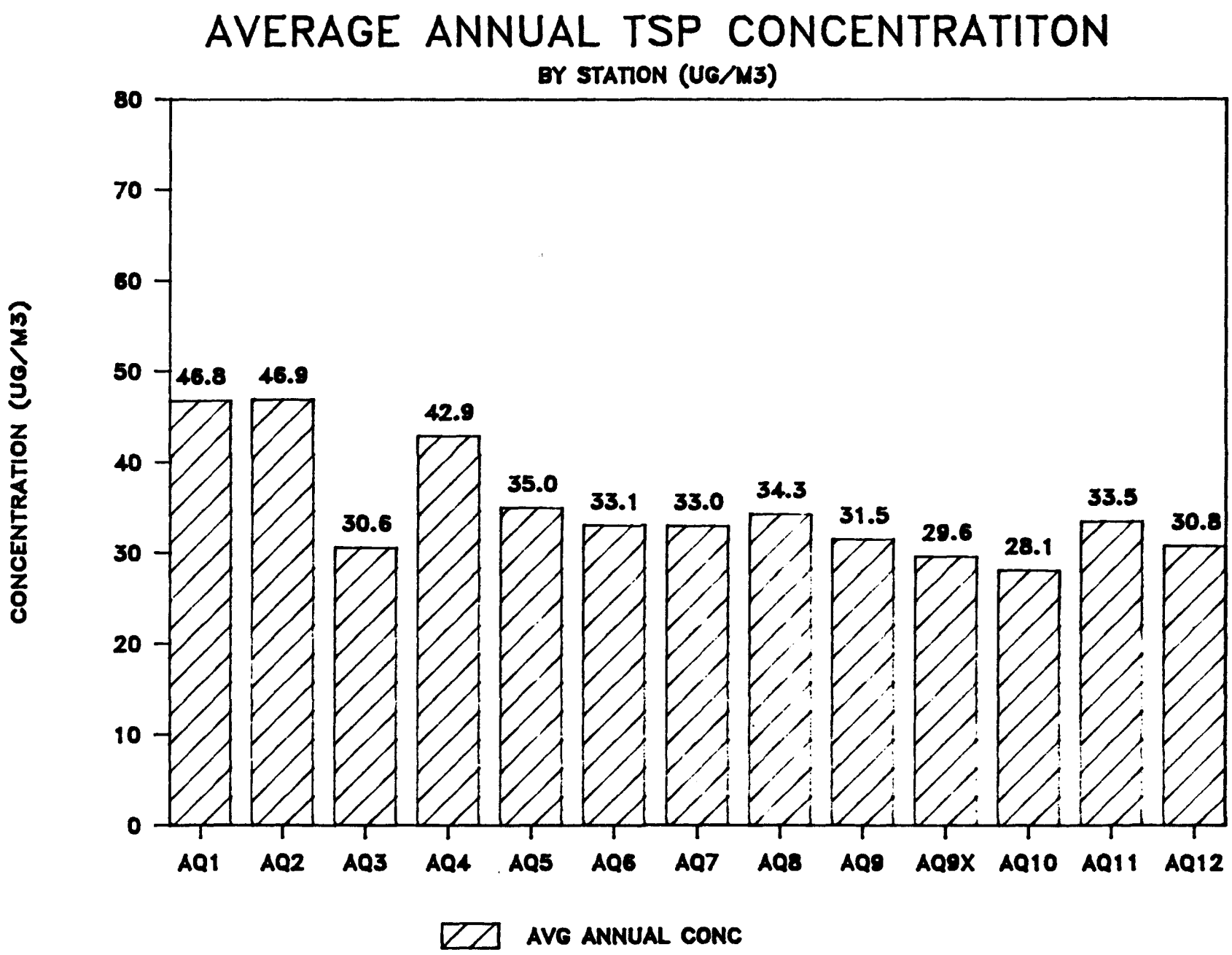

TSP VS PM-10
ANNUAL AVERAGES (ug/m3)
CONCENTRATION (UG/M3)
80
70
60
50
40
30
20
10
0
46.9
30.5
35.0
31.2
31.5
15.7
29.6
AQ2
AQ5
AQ9
AQ9X
MONTH
TSP
PM-10


NORTERN INTERIOR STATIONS
AVERAGE MONTHLY TSP CONCENTRATIONS
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
JUN'86
JUL
AUG
SEPT
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
JUN
MONTH
AQ10
AQ11
AQ12

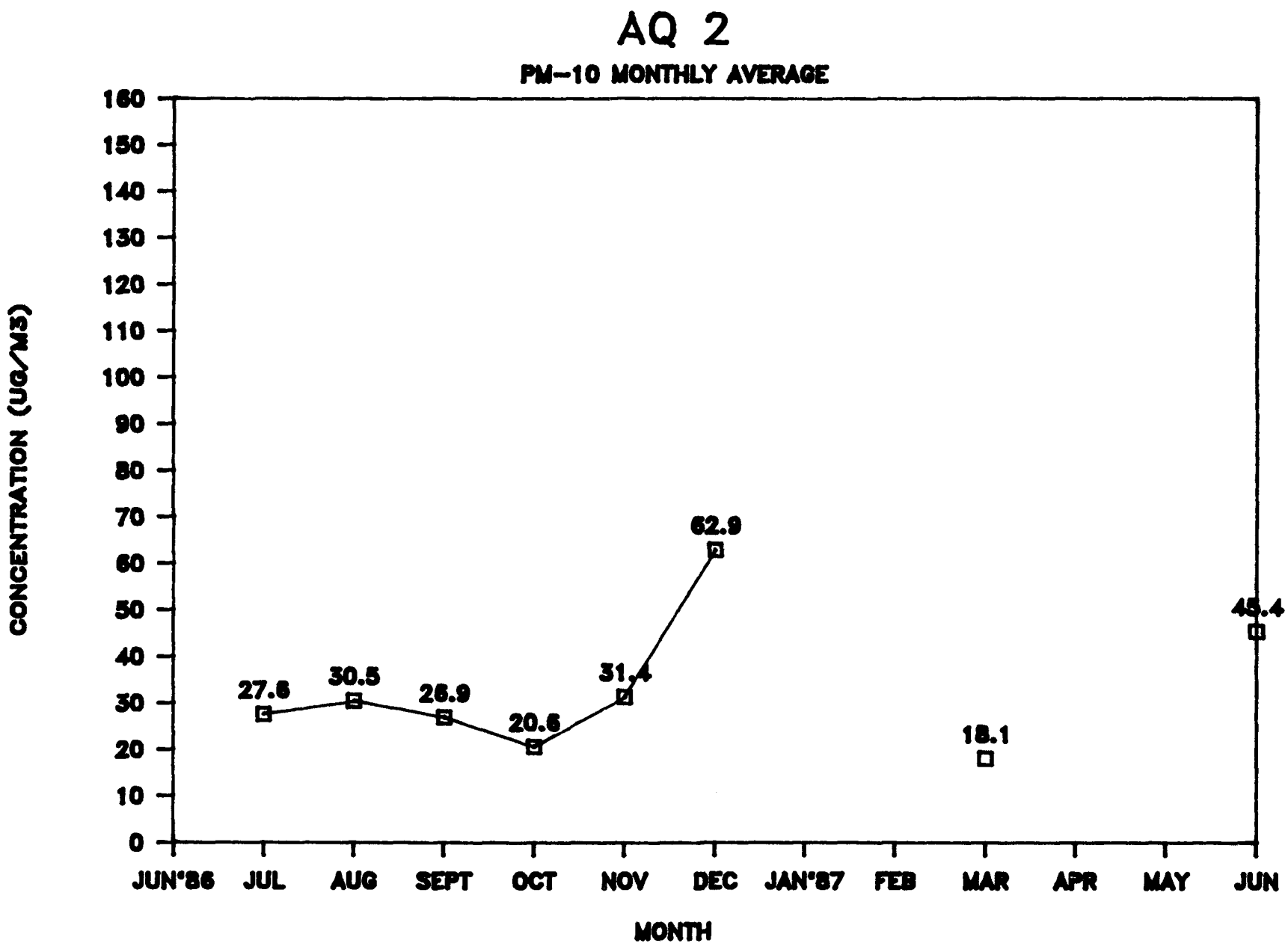

BOUNDARY STATIONS
AVERAGE MONTHLY TSP CONCENTRATIONS
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
JUN'86
JUL
AUG
SEPT
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
JUN
MONTH
AQ1
AQ2
AQ3
AQ4
AQ5

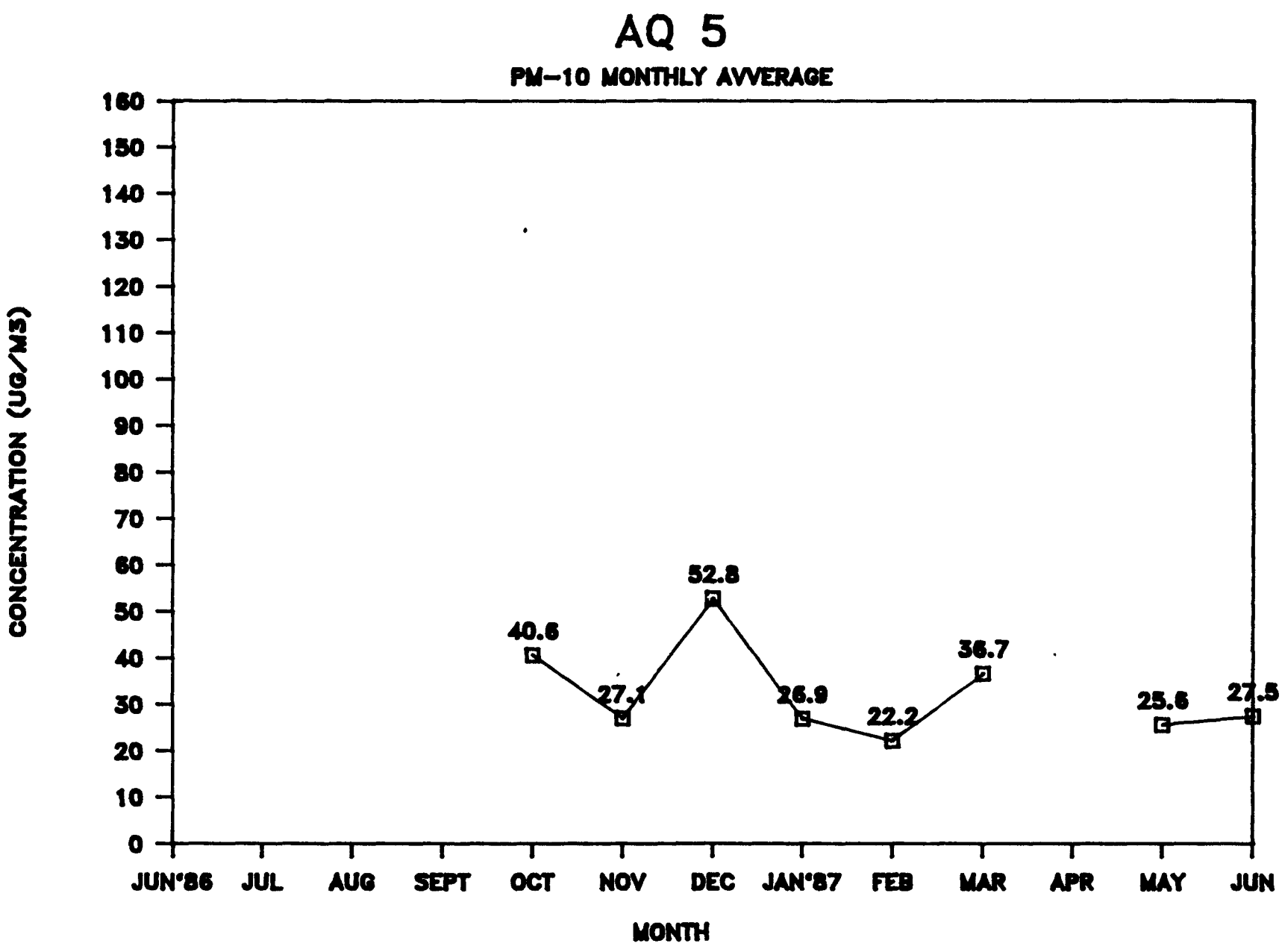
SOUTHERN INTERIOR STATIONS

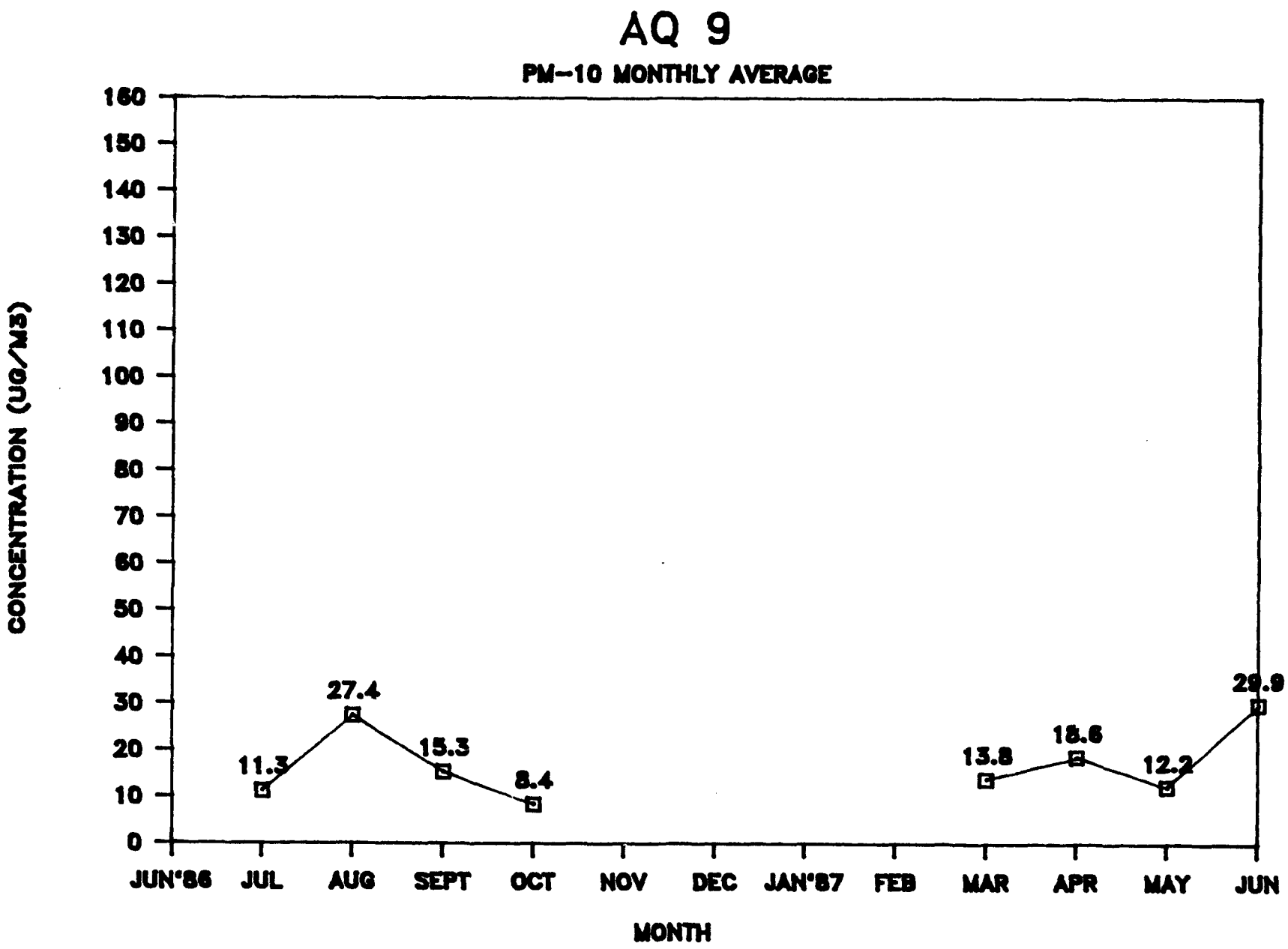



AVERAGE ANNUAL TSP CONCENTRATITON
BY STATION (UG/M3)
CONCENTRATION (UG/M3)
80
70
60
50
40
30
20
10
0
46.8
46.9
30.6
42.9
35.0
33.1
33.0
34.3
31.5
29.6
28.1
33.5
30.8
AQ1
AQ2
AQ3
AQ4
AQ5
AQ6
AQ7
AQ8
AQ9
AQ9X
AQ10
AQ11
AQ12
AVG ANNUAL CONC

APPENDIX C.2
PM-10 SUMMARY


AQ 2
PM-10 MONTHLY AVERAGE
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
27.6
30.5
26.9
20.6
31.4
62.9
18.1
45.4
JUN'86
JUL
AUG
SEPT
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
JUN
MONTH


AQ 5
PM-10 MONTHLY AVVERAGE
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
40.6
27.1
52.8
26.9
22.2
36.7
25.6
27.5
JUN'86
JUL
AUG
SEPT
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
JUN
MONTH


AQ 9
PM-10 MONTHLY AVERAGE
CONCENTRATION (UG/M3)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
11.3
27.4
15.3
8.4
13.8
18.6
12.2
29.9
JUN'86
JUL
AUG
SEPT
OCT
NOV
DEC
JAN'87
FEB
MAR
APR
MAY
JUN
MONTH

APPENDIX D
METEOROLOGICAL DATA

APPENDIX D.1
RMA METEOROLOGICAL DATA

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/17/87	1315	6.93	0.25	13.39	71.80	0.35	23.15
07/17/87	1330	7.07	2.72	18.10	72.80	0.35	23.36
07/17/87	1345	6.31	20.26	15.78	73.90	0.35	23.25
07/17/87	1400	4.94	7.23	20.49	74.10	0.35	22.51
07/17/87	1415	6.15	15.42	21.64	74.70	0.35	22.18
07/17/87	1430	5.04	353.60	18.15	77.00	0.35	23.36
07/17/87	1445	6.13	347.90	18.97	76.20	0.35	22.99
07/17/87	1500	4.08	35.89	10.37	76.60	0.35	23.82
07/17/87	1515	3.40	347.50	24.77	76.80	0.35	24.56
07/17/87	1530	3.88	99.10	33.45	76.80	0.35	24.55
07/17/87	1545	2.01	59.82	31.89	77.40	0.35	24.54
07/17/87	1600	2.14	320.40	78.50	78.50	0.35	24.25
07/17/87	1615	2.57	314.40	59.00	79.10	0.35	22.29
07/17/87	1630	3.96	215.90	54.68	80.00	0.35	22.48
07/17/87	1645	3.17	186.90	53.10	81.00	0.35	23.03
07/17/87	1700	6.17	184.50	17.40	80.70	0.35	22.90
07/17/87	1715	5.48	194.50	10.37	79.80	0.35	24.21
07/17/87	1730	4.52	198.10	13.85	80.20	0.35	24.53
07/17/87	1745	4.98	207.00	36.25	81.00	0.35	24.53
07/17/87	1800	3.61	287.40	30.71	82.90	0.35	24.53
07/17/87	1815	5.24	244.50	32.68	83.70	0.35	24.52
07/17/87	1830	7.36	252.40	9.14	81.90	0.35	24.52
07/17/87	1845	7.71	240.20	9.55	81.80	0.35	24.53
07/17/87	1900	9.82	217.40	5.60	81.40	0.35	24.53
07/17/87	1915	10.19	241.20	5.94	81.40	0.35	24.53
07/17/87	1930	16.09	277.10	4.03	80.50	0.35	24.53
07/17/87	1945	25.91	252.70	4.37	77.60	0.35	24.35
07/17/87	2000	29.14	245.70	4.44	74.40	0.35	24.57
07/17/87	2015	29.28	250.70	6.36	73.10	0.35	24.57
07/17/87	2030	28.67	253.10	5.20	71.60	0.35	24.58
07/17/87	2045	23.36	249.60	4.45	70.90	0.35	24.58
07/17/87	2100	18.84	253.40	5.61	70.60	0.35	24.46
07/17/87	2115	14.72	260.50	4.45	70.80	0.35	23.83
07/17/87	2130	8.39	266.80	4.04	70.90	0.35	23.46
07/17/87	2145	3.15	291.20	28.68	71.00	0.35	23.44
07/17/87	2200	7.92	65.55	6.78	70.10	0.35	23.40
07/17/87	2215	4.57	80.00	13.83	69.99	0.35	23.49
07/17/87	2230	4.49	114.50	17.73	69.36	0.35	23.87
07/17/87	2245	3.83	145.60	8.70	69.75	0.35	24.57
07/17/87	2300	7.12	162.10	3.15	69.21	0.35	24.57
07/17/87	2315	7.19	158.80	2.40	68.86	0.35	24.55
07/17/87	2330	6.99	173.90	2.74	69.59	0.35	24.53
07/17/87	2345	7.04	188.10	3.56	68.83	0.35	24.53
07/18/87	0	7.81	200.80	2.40	68.02	0.35	24.53
07/18/87	15	6.52	195.00	8.63	68.21	0.35	24.54
07/18/87	30	5.03	213.40	3.98	68.79	0.35	24.54

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/18/87	45	6.80	219.40	4.73	69.15	0.35	24.53
07/18/87	100	4.65	212.50	2.74	68.58	0.35	24.53
07/18/87	115	7.35	218.80	2.33	67.61	0.35	24.24
07/18/87	130	7.56	226.10	2.40	69.00	0.35	23.43
07/18/87	145	7.98	216.00	2.74	69.28	0.35	23.27
07/18/87	200	7.30	212.60	8.71	68.05	0.35	23.28
07/18/87	215	5.36	251.20	4.80	68.32	0.35	23.28
07/18/87	230	5.78	291.10	7.88	70.60	0.35	23.39
07/18/87	245	4.66	203.30	8.30	68.72	0.35	24.21
07/18/87	300	8.37	156.30	1.17	65.86	0.35	24.63
07/18/87	315	8.86	166.50	3.15	66.82	0.35	24.63
07/18/87	330	6.39	173.70	2.74	65.47	0.35	24.64
07/18/87	345	5.87	116.40	21.95	61.19	0.35	24.65
07/18/87	400	7.30	98.00	13.72	56.92	0.35	24.64
07/18/87	415	6.69	109.50	3.91	60.83	0.35	24.66
07/18/87	430	6.86	125.10	17.22	63.97	0.35	24.66
07/18/87	445	5.83	156.80	9.40	63.52	0.35	24.66
07/18/87	500	5.68	132.30	15.30	62.44	0.35	24.66
07/18/87	515	6.05	143.60	7.41	60.83	0.35	24.66
07/18/87	530	10.24	125.30	3.50	60.63	0.35	24.66
07/18/87	545	10.11	125.60	25.81	62.19	0.35	24.67
07/18/87	600	8.89	142.20	6.25	62.88	0.35	24.69
07/18/87	615	6.18	152.00	25.05	59.06	0.35	24.69
07/18/87	630	5.40	146.40	25.81	58.19	0.35	24.69
07/18/87	645	8.27	158.20	2.33	57.31	0.35	24.69
07/18/87	700	4.52	147.80	34.11	54.74	0.35	24.69
07/18/87	715	4.40	157.10	3.57	55.82	0.35	24.69
07/18/87	730	6.23	140.10	16.41	54.94	0.35	24.70
07/18/87	745	6.35	148.60	5.08	55.03	0.35	24.71
07/18/87	800	9.99	159.30	3.85	57.52	0.35	24.71
07/18/87	815	6.86	153.30	3.16	55.90	0.35	24.71
07/18/87	830	5.59	156.10	5.90	55.49	0.35	24.71
07/18/87	845	5.52	188.60	8.58	58.79	0.35	24.71
07/18/87	900	4.58	219.80	29.37	57.86	0.35	24.71
07/18/87	915	1.62	10.55	11.04	59.14	0.35	24.71
07/18/87	930	2.98	258.90	16.94	60.77	0.35	24.61
07/18/87	945	5.00	222.00	11.04	62.27	0.35	24.52
07/18/87	1000	6.94	221.20	4.79	65.40	0.35	24.61
07/18/87	1015	11.42	215.90	5.21	67.72	0.35	24.66
07/18/87	1030	12.65	214.80	5.61	69.59	0.35	24.66
07/18/87	1045	13.71	209.70	4.45	71.10	0.35	24.43
07/18/87	1100	14.89	205.40	4.45	72.30	0.35	24.70
07/18/87	1115	13.92	206.30	5.20	73.70	0.35	24.70
07/18/87	1130	14.94	202.10	5.54	75.20	0.35	23.86
07/18/87	1145	15.36	207.20	7.52	75.60	0.35	23.37
07/18/87	1200	13.88	210.20	8.34	76.40	0.35	24.11

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/18/87	1215	17.78	208.90	7.52	76.90	0.35	23.14
07/18/87	1230	16.60	199.00	5.94	77.60	0.35	22.86
07/18/87	1245	15.03	199.20	11.47	77.80	0.35	23.24
07/18/87	1300	12.32	199.20	8.40	78.30	0.35	23.29
07/18/87	1315	9.80	207.80	13.86	79.40	0.35	23.38
07/18/87	1330	8.17	202.30	26.41	79.90	0.35	23.23
07/18/87	1345	7.50	220.30	40.52	80.70	0.35	23.15
07/18/87	1400	8.94	216.70	12.28	81.00	0.35	22.90
07/18/87	1415	7.38	205.70	15.48	81.60	0.35	22.56
07/18/87	1430	4.84	226.50	34.70	82.50	0.35	24.59
07/18/87	1445	8.47	205.30	8.79	83.00	0.35	24.67
07/18/87	1500	6.23	179.10	24.06	83.50	0.35	24.68
07/18/87	1515	7.62	197.80	14.72	83.70	0.35	24.68
07/18/87	1530	8.66	217.50	28.76	83.50	0.35	24.67
07/18/87	1545	10.04	200.40	12.74	84.60	0.35	24.66
07/18/87	1600	7.50	169.80	19.02	85.40	0.35	24.66
07/18/87	1615	10.75	177.40	17.86	85.80	0.35	24.66
07/18/87	1630	9.08	193.80	58.68	85.80	0.35	24.65
07/18/87	1645	10.32	192.30	15.13	85.80	0.35	24.66
07/18/87	1700	10.01	149.10	23.31	86.70	0.35	24.65
07/18/87	1715	11.23	167.50	15.06	86.90	0.35	24.64
07/18/87	1730	10.61	154.00	15.47	87.30	0.35	24.65
07/18/87	1745	8.03	109.00	47.99	87.20	0.35	24.64
07/18/87	1800	6.46	158.90	28.36	88.50	0.35	24.65
07/18/87	1815	7.69	231.00	9.20	88.20	0.35	24.64
07/18/87	1830	5.35	237.40	43.70	89.10	0.35	24.64
07/18/87	1845	5.41	175.50	20.17	88.90	0.35	24.64
07/18/87	1900	5.83	231.30	18.95	86.90	0.35	24.65
07/18/87	1915	1.95	257.40	55.04	86.60	0.35	24.65
07/18/87	1930	5.42	106.80	18.15	88.20	0.35	24.65
07/18/87	1945	6.89	181.50	16.24	87.10	0.35	24.65
07/18/87	2000	4.53	235.80	18.98	87.20	0.35	24.64
07/18/87	2015	3.60	222.00	21.30	88.60	0.35	24.65
07/18/87	2030	4.72	166.50	28.33	89.90	0.35	24.65
07/18/87	2045	9.96	43.79	7.58	88.30	0.35	24.65
07/18/87	2100	9.82	39.54	8.74	87.30	0.35	24.65
07/18/87	2115	7.38	29.33	5.19	86.90	0.35	24.64
07/18/87	2130	5.58	28.54	4.44	85.70	0.35	24.65
07/18/87	2145	5.56	27.34	13.80	85.20	0.35	24.65
07/18/87	2200	9.17	343.90	2.80	83.10	0.35	24.65
07/18/87	2215	8.64	350.10	13.05	80.70	0.35	24.65
07/18/87	2230	6.93	359.30	15.72	78.70	0.35	24.65
07/18/87	2245	8.11	343.70	2.80	76.40	0.35	24.37
07/18/87	2300	6.73	345.50	7.93	74.90	0.35	23.84
07/18/87	2315	8.48	317.30	4.79	72.10	0.35	23.85
07/18/87	2330	10.34	322.30	4.38	72.80	0.35	23.77

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/18/87	2345	10.74	313.40	4.79	73.60	0.35	23.50
07/19/87	0	10.94	318.60	3.22	73.20	0.35	23.28
07/19/87	15	7.94	301.60	11.50	72.30	0.35	23.10
07/19/87	30	6.79	245.30	6.37	71.30	0.35	23.28
07/19/87	45	6.20	233.80	7.19	72.10	0.35	23.59
07/19/87	100	8.90	184.30	2.81	72.10	0.35	23.57
07/19/87	115	7.10	189.00	5.21	73.70	0.35	23.31
07/19/87	130	6.79	220.60	3.97	73.30	0.35	23.01
07/19/87	145	8.68	203.90	1.99	71.10	0.35	22.92
07/19/87	200	8.71	206.40	1.65	71.50	0.35	23.02
07/19/87	215	8.70	201.40	3.56	69.93	0.35	23.14
07/19/87	230	7.04	201.20	1.99	69.43	0.35	23.45
07/19/87	245	7.91	200.00	1.58	68.96	0.35	23.40
07/19/87	300	5.10	192.70	30.99	69.34	0.35	23.43
07/19/87	315	5.45	106.50	8.64	68.66	0.35	24.67
07/19/87	330	6.00	152.30	4.73	70.70	0.35	24.76
07/19/87	345	7.74	173.80	3.91	70.20	0.35	24.76
07/19/87	400	7.90	194.30	1.99	68.47	0.35	24.76
07/19/87	415	4.98	205.10	1.99	67.34	0.35	24.76
07/19/87	430	4.49	114.10	2.74	65.26	0.35	24.76
07/19/87	445	6.14	123.10	8.23	64.41	0.35	24.76
07/19/87	500	8.23	158.40	3.57	68.24	0.35	24.76
07/19/87	515	8.74	171.30	2.68	69.16	0.35	24.76
07/19/87	530	7.15	156.50	2.33	65.27	0.35	24.78
07/19/87	545	7.62	155.30	2.33	62.91	0.35	24.78
07/19/87	600	10.92	152.40	2.33	63.75	0.35	24.78
07/19/87	615	11.00	165.40	2.40	66.72	0.35	24.78
07/19/87	630	10.47	172.30	1.92	66.66	0.35	24.78
07/19/87	645	10.08	164.20	4.32	64.99	0.35	24.79
07/19/87	700	9.37	153.60	1.51	60.59	0.35	24.79
07/19/87	715	10.91	153.90	1.92	58.77	0.35	24.80
07/19/87	730	11.81	162.70	1.92	61.35	0.35	24.80
07/19/87	745	13.75	170.50	1.17	62.75	0.35	24.80
07/19/87	800	10.34	163.80	23.19	63.14	0.35	24.81
07/19/87	815	3.78	147.30	11.73	57.52	0.35	24.81
07/19/87	830	2.52	132.80	28.61	57.99	0.35	24.82
07/19/87	845	3.58	131.00	5.49	58.58	0.35	24.82
07/19/87	900	2.01	111.70	16.87	60.37	0.35	24.83
07/19/87	915	0.95	318.50	22.42	63.40	0.35	24.66
07/19/87	930	1.61	23.13	14.19	65.86	0.35	23.87
07/19/87	945	3.35	328.40	8.29	66.34	0.35	23.97
07/19/87	1000	3.37	339.90	5.55	67.40	0.35	23.96
07/19/87	1015	2.81	297.80	17.72	69.96	0.35	24.58
07/19/87	1030	3.06	271.70	19.29	71.20	0.35	24.80
07/19/87	1045	3.27	252.70	11.49	72.10	0.35	24.69
07/19/87	1100	2.79	200.30	56.25	73.10	0.35	23.66

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/19/87	1115	3.70	193.40	19.81	74.10	0.35	23.55
07/19/87	1130	3.69	202.20	20.14	75.00	0.35	23.27
07/19/87	1145	3.11	179.90	34.26	76.60	0.35	23.91
07/19/87	1200	2.66	266.10	25.18	78.20	0.35	23.64
07/19/87	1215	3.74	186.40	24.07	78.80	0.35	24.56
07/19/87	1230	2.88	130.30	28.02	80.30	0.35	24.70
07/19/87	1245	3.57	135.70	45.66	81.00	0.35	24.81
07/19/87	1300	5.11	227.70	45.31	81.70	0.35	24.82
07/19/87	1315	6.47	211.50	35.49	81.80	0.35	24.82
07/19/87	1330	8.64	221.80	22.48	82.40	0.35	24.81
07/19/87	1345	6.98	238.90	53.88	82.90	0.35	24.81
07/19/87	1400	4.57	258.90	62.26	83.90	0.35	24.81
07/19/87	1415	4.48	246.90	46.03	85.80	0.35	24.83
07/19/87	1430	8.02	203.20	18.18	84.80	0.35	24.83
07/19/87	1445	6.24	263.00	20.22	85.50	0.35	24.83
07/19/87	1500	6.17	233.10	34.25	85.70	0.35	24.82
07/19/87	1515	5.83	269.30	39.77	86.10	0.35	24.81
07/19/87	1530	8.13	132.70	21.38	87.30	0.35	24.80
07/19/87	1545	8.55	172.20	29.55	87.50	0.35	24.80
07/19/87	1600	5.42	182.20	33.17	88.30	0.35	24.79
07/19/87	1615	8.82	206.40	53.13	88.70	0.35	24.79
07/19/87	1630	11.41	176.70	32.69	88.70	0.35	24.78
07/19/87	1645	10.07	171.50	20.98	89.40	0.35	24.78
07/19/87	1700	9.38	161.90	11.17	90.00	0.35	24.77
07/19/87	1715	8.03	137.10	29.56	89.90	0.35	24.78
07/19/87	1730	8.21	144.00	15.12	90.70	0.35	24.78
07/19/87	1745	11.02	118.60	13.56	90.50	0.35	24.77
07/19/87	1800	9.79	117.00	11.92	90.00	0.35	24.76
07/19/87	1815	14.91	150.10	17.03	90.50	0.35	24.76
07/19/87	1830	12.26	146.80	9.20	89.20	0.35	24.76
07/19/87	1845	11.41	138.40	13.50	90.50	0.35	23.38
07/19/87	1900	14.02	147.70	21.41	90.60	0.35	22.25
07/19/87	1915	16.23	150.50	7.23	90.30	0.35	22.03
07/19/87	1930	15.67	141.30	17.05	90.10	0.35	21.89
07/19/87	1945	14.48	142.60	9.14	89.40	0.35	22.46
07/19/87	2000	14.72	152.40	10.72	88.40	0.35	22.87
07/19/87	2015	15.14	153.40	6.35	87.90	0.35	22.90
07/19/87	2030	14.18	167.70	5.94	87.80	0.35	22.67
07/19/87	2045	9.76	166.00	7.58	87.70	0.35	22.41
07/19/87	2100	11.68	178.70	7.92	89.00	0.35	22.07
07/19/87	2115	14.74	303.40	15.78	86.70	0.35	22.06
07/19/87	2130	6.53	338.90	15.03	84.30	0.35	22.52
07/19/87	2145	10.87	322.90	6.36	82.20	0.35	23.34
07/19/87	2200	8.42	336.40	7.93	80.20	0.35	24.59
07/19/87	2215	8.36	322.00	3.62	79.20	0.35	24.41
07/19/87	2230	9.12	319.90	2.87	78.70	0.35	23.71

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/19/87	2245	8.47	295.80	2.87	77.80	0.35	23.71
07/19/87	2300	7.99	311.30	2.05	78.10	0.35	23.68
07/19/87	2315	9.62	301.70	2.81	77.60	0.35	23.53
07/19/87	2330	10.07	293.40	2.81	76.80	0.35	23.49
07/19/87	2345	8.52	300.20	2.46	76.80	0.35	23.38
07/20/87	0	7.66	291.00	5.20	76.80	0.35	23.53
07/20/87	15	6.02	254.20	7.12	75.90	0.35	23.56
07/20/87	30	7.19	252.70	11.09	75.90	0.35	23.59
07/20/87	45	8.69	299.50	2.06	76.70	0.35	23.32
07/20/87	100	7.52	304.20	3.97	75.70	0.35	23.20
07/20/87	115	7.05	314.50	3.22	75.80	0.35	24.29
07/20/87	130	5.28	301.80	4.38	75.40	0.35	24.62
07/20/87	145	3.10	177.30	33.78	73.60	0.35	24.55
07/20/87	200	5.09	221.80	5.89	74.10	0.35	23.63
07/20/87	215	5.12	254.30	5.14	74.00	0.35	23.50
07/20/87	230	6.59	248.80	3.56	72.50	0.35	23.36
07/20/87	245	7.55	265.10	5.55	72.40	0.35	23.22
07/20/87	300	7.18	253.70	5.48	71.20	0.35	23.34
07/20/87	315	5.62	212.70	3.15	68.87	0.35	23.52
07/20/87	330	6.65	214.80	3.15	70.90	0.35	24.67
07/20/87	345	7.04	214.50	3.56	70.80	0.35	24.76
07/20/87	400	6.60	208.70	5.49	67.64	0.35	24.75
07/20/87	415	6.26	201.30	2.74	66.45	0.35	24.20
07/20/87	430	7.40	201.30	1.99	65.79	0.35	24.83
07/20/87	445	7.54	200.00	1.99	64.94	0.35	24.84
07/20/87	500	8.74	196.90	2.33	64.64	0.35	24.84
07/20/87	515	9.42	187.20	2.67	63.54	0.35	24.85
07/20/87	530	8.98	194.40	1.92	63.88	0.35	24.85
07/20/87	545	9.29	196.00	1.92	63.81	0.35	24.85
07/20/87	600	9.31	193.70	1.58	63.79	0.35	24.85
07/20/87	615	8.74	191.30	1.17	63.58	0.35	24.86
07/20/87	630	10.12	187.40	2.33	63.11	0.35	24.86
07/20/87	645	9.61	195.90	2.40	62.49	0.35	24.87
07/20/87	700	9.49	194.40	1.51	61.59	0.35	24.87
07/20/87	715	8.41	195.00	1.51	61.19	0.35	24.88
07/20/87	730	8.19	206.60	2.33	60.90	0.35	24.88
07/20/87	745	9.08	205.70	1.92	61.56	0.35	24.88
07/20/87	800	8.21	200.30	3.50	61.22	0.35	24.88
07/20/87	815	8.91	187.30	1.51	60.94	0.35	24.89
07/20/87	830	10.97	183.20	1.58	61.25	0.35	24.90
07/20/87	845	9.06	192.20	3.57	62.40	0.35	24.90
07/20/87	900	9.29	200.20	3.57	63.17	0.35	24.37
07/20/87	915	9.43	210.90	3.56	64.16	0.35	22.90
07/20/87	930	10.69	212.10	3.22	65.98	0.35	23.06
07/20/87	945	10.21	208.80	4.04	67.52	0.35	23.38
07/20/87	1000	10.24	202.60	5.96	69.25	0.35	23.71

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/20/87	1015	9.84	202.50	4.04	70.50	0.35	23.83
07/20/87	1030	9.00	203.60	4.11	72.30	0.35	23.80
07/20/87	1045	9.67	205.10	5.27	73.30	0.35	23.91
07/20/87	1100	9.47	212.50	4.45	74.70	0.35	23.93
07/20/87	1115	9.34	213.30	8.34	75.80	0.35	23.86
07/20/87	1130	8.36	207.40	8.75	77.20	0.35	23.82
07/20/87	1145	7.54	208.90	6.42	79.10	0.35	23.92
07/20/87	1200	6.44	197.40	15.09	80.50	0.35	23.62
07/20/87	1215	5.36	189.30	10.37	81.90	0.35	23.68
07/20/87	1230	4.04	219.00	19.37	83.30	0.35	23.89
07/20/87	1245	4.51	190.30	27.95	84.30	0.35	24.85
07/20/87	1300	5.35	205.50	27.19	85.10	0.35	24.90
07/20/87	1315	3.85	240.80	54.30	86.10	0.35	24.89
07/20/87	1330	6.10	213.40	37.39	86.60	0.35	24.87
07/20/87	1345	6.71	249.60	13.89	86.60	0.35	24.86
07/20/87	1400	6.59	241.30	11.92	87.10	0.35	24.87
07/20/87	1415	6.24	220.10	15.86	87.10	0.35	24.87
07/20/87	1430	8.39	223.60	14.71	87.50	0.35	24.87
07/20/87	1445	10.28	186.00	15.12	87.60	0.35	24.87
07/20/87	1500	9.45	137.90	36.64	87.80	0.35	24.85
07/20/87	1515	9.46	159.00	10.01	88.40	0.35	24.86
07/20/87	1530	8.22	150.30	15.46	89.40	0.35	24.85
07/20/87	1545	10.16	120.70	17.03	89.00	0.35	24.84
07/20/87	1600	8.45	142.20	25.61	89.80	0.35	24.84
07/20/87	1615	8.51	180.70	13.55	90.30	0.35	24.83
07/20/87	1630	10.22	131.10	22.96	89.90	0.35	24.83
07/20/87	1645	5.41	166.90	55.86	90.80	0.35	24.82
07/20/87	1700	9.09	137.50	20.16	90.70	0.35	24.82
07/20/87	1715	7.87	138.30	31.54	91.50	0.35	24.83
07/20/87	1730	9.15	100.50	31.95	91.50	0.35	24.81
07/20/87	1745	8.71	133.80	58.25	91.60	0.35	24.82
07/20/87	1800	6.92	130.00	17.03	93.00	0.35	24.82
07/20/87	1815	9.44	105.60	12.26	91.60	0.35	24.82
07/20/87	1830	9.57	153.80	26.37	91.50	0.35	24.82
07/20/87	1845	6.40	125.40	13.15	92.10	0.35	24.82
07/20/87	1900	8.01	131.50	21.74	92.20	0.35	24.81
07/20/87	1915	8.37	173.80	13.56	92.10	0.35	24.81
07/20/87	1930	10.08	165.30	31.56	92.20	0.35	24.80
07/20/87	1945	14.74	131.60	4.91	91.40	0.35	24.80
07/20/87	2000	13.62	122.70	15.48	91.30	0.35	24.68
07/20/87	2015	12.37	133.10	10.03	91.00	0.35	24.52
07/20/87	2030	12.97	145.70	13.92	91.00	0.35	23.64
07/20/87	2045	13.05	141.20	9.62	90.60	0.35	23.09
07/20/87	2100	13.96	135.70	7.24	90.20	0.35	23.18
07/20/87	2115	14.59	129.60	3.28	89.60	0.35	23.19
07/20/87	2130	11.86	124.70	4.10	88.20	0.35	23.34

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/20/87	2145	8.58	108.70	3.69	86.50	0.35	23.38
07/20/87	2200	7.92	106.10	2.46	84.80	0.35	23.30
07/20/87	2215	9.30	106.70	1.64	82.70	0.35	23.79
07/20/87	2230	9.52	108.30	2.05	81.60	0.35	24.76
07/20/87	2245	9.93	113.00	2.80	79.90	0.35	24.75
07/20/87	2300	10.01	111.10	2.46	77.70	0.35	23.85
07/20/87	2315	10.38	114.00	2.46	76.70	0.35	23.91
07/20/87	2330	10.87	115.30	2.81	77.20	0.35	23.71
07/20/87	2345	10.49	116.10	3.63	77.50	0.35	23.42
07/21/87	0	10.75	129.60	3.22	76.90	0.35	23.28
07/21/87	15	10.22	147.70	3.22	74.70	0.35	23.22
07/21/87	30	9.75	153.20	2.81	72.20	0.35	23.86
07/21/87	45	10.44	146.70	4.38	71.70	0.35	23.97
07/21/87	100	11.72	117.50	2.40	70.80	0.35	23.74
07/21/87	115	11.93	118.30	2.81	70.10	0.35	23.75
07/21/87	130	12.34	125.10	3.22	70.10	0.35	23.43
07/21/87	145	12.25	128.70	1.64	69.14	0.35	23.56
07/21/87	200	13.00	132.70	7.88	68.47	0.35	23.62
07/21/87	215	8.12	204.80	9.46	67.31	0.35	23.52
07/21/87	230	8.29	182.40	14.18	69.30	0.35	23.50
07/21/87	245	8.91	182.10	2.74	70.50	0.35	23.35
07/21/87	300	10.80	172.60	5.48	69.67	0.35	23.04
07/21/87	315	10.62	197.00	3.98	71.30	0.35	22.83
07/21/87	330	10.60	194.90	7.13	70.70	0.35	22.62
07/21/87	345	8.67	205.60	3.56	70.20	0.35	22.47
07/21/87	400	9.14	218.00	1.99	69.74	0.35	22.35
07/21/87	415	9.05	222.80	1.99	69.75	0.35	22.63
07/21/87	430	8.23	233.20	2.74	67.89	0.35	23.11
07/21/87	445	6.90	224.10	3.91	66.19	0.35	24.42
07/21/87	500	8.37	193.90	1.99	66.75	0.35	23.72
07/21/87	515	7.71	202.70	1.58	67.46	0.35	23.88
07/21/87	530	6.19	212.70	2.74	67.47	0.35	23.16
07/21/87	545	5.72	228.30	2.74	66.93	0.35	24.64
07/21/87	600	5.75	225.60	2.33	64.24	0.35	24.52
07/21/87	615	7.34	212.90	1.99	64.27	0.35	23.38
07/21/87	630	8.75	199.90	1.58	64.45	0.35	24.66
07/21/87	645	10.24	172.20	1.17	63.87	0.35	24.37
07/21/87	700	8.65	168.10	4.32	64.47	0.35	22.45
07/21/87	715	9.17	145.10	2.40	63.51	0.35	22.31
07/21/87	730	10.66	141.30	1.17	63.10	0.35	23.54
07/21/87	745	8.71	140.80	3.91	66.25	0.35	23.08
07/21/87	800	5.71	133.50	7.89	67.69	0.35	22.73
07/21/87	815	5.37	201.50	5.90	64.28	0.35	22.73
07/21/87	830	7.32	238.30	2.33	59.14	0.35	22.65
07/21/87	845	5.80	223.50	3.16	61.16	0.35	24.49
07/21/87	900	4.39	223.90	5.56	62.29	0.35	24.90

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/21/87	915	5.09	226.00	5.90	64.07	0.35	24.90
07/21/87	930	6.25	225.60	4.80	65.76	0.35	24.90
07/21/87	945	7.19	224.50	7.95	68.30	0.35	24.90
07/21/87	1000	5.11	222.40	9.11	70.50	0.35	24.90
07/21/87	1015	4.41	231.90	9.17	72.60	0.35	24.34
07/21/87	1030	5.20	232.40	6.02	73.90	0.35	23.89
07/21/87	1045	5.34	237.50	10.40	75.10	0.35	23.74
07/21/87	1100	4.55	246.30	38.15	76.70	0.35	23.80
07/21/87	1115	5.20	277.40	9.91	77.00	0.35	24.25
07/21/87	1130	5.08	265.20	19.33	77.90	0.35	24.89
07/21/87	1145	4.59	271.10	11.54	78.60	0.35	24.89
07/21/87	1200	4.07	224.20	12.62	79.30	0.35	24.89
07/21/87	1215	3.59	231.20	20.53	80.50	0.35	24.87
07/21/87	1230	3.56	229.20	46.84	81.10	0.35	24.88
07/21/87	1245	3.63	256.10	56.23	82.10	0.35	24.88
07/21/87	1300	3.10	229.60	14.65	83.70	0.35	24.87
07/21/87	1315	3.96	233.60	73.10	83.90	0.35	24.87
07/21/87	1330	3.58	251.40	55.09	85.30	0.35	24.87
07/21/87	1345	7.00	144.30	15.46	85.50	0.35	24.86
07/21/87	1400	5.59	157.60	14.71	86.00	0.35	24.86
07/21/87	1415	8.16	171.10	12.32	86.60	0.35	24.85
07/21/87	1430	7.49	178.60	11.17	88.10	0.35	24.85
07/21/87	1445	5.64	178.60	61.74	88.80	0.35	24.84
07/21/87	1500	7.27	182.10	20.22	89.50	0.35	24.84
07/21/87	1515	4.21	192.70	34.72	89.70	0.35	24.83
07/21/87	1530	5.41	185.20	23.69	91.10	0.35	24.82
07/21/87	1545	11.68	185.30	7.21	91.50	0.35	24.80
07/21/87	1600	12.47	192.00	21.72	91.50	0.35	24.79
07/21/87	1615	12.92	167.00	6.47	92.00	0.35	24.79
07/21/87	1630	12.69	192.80	15.86	91.80	0.35	24.78
07/21/87	1645	11.72	167.50	11.58	91.90	0.35	24.78
07/21/87	1700	13.61	157.90	20.22	91.90	0.35	24.76
07/21/87	1715	13.85	164.30	11.99	92.60	0.35	24.76
07/21/87	1730	12.91	181.60	11.99	92.40	0.35	24.75
07/21/87	1745	15.13	175.00	15.94	93.10	0.35	24.75
07/21/87	1800	14.41	167.40	8.86	93.00	0.35	24.75
07/21/87	1815	16.29	173.10	19.83	92.90	0.35	24.73
07/21/87	1830	18.80	163.00	7.29	93.40	0.35	24.73
07/21/87	1845	18.18	162.50	6.47	93.50	0.35	24.72
07/21/87	1900	18.43	159.30	6.88	93.60	0.35	24.72
07/21/87	1915	20.25	165.20	7.64	93.20	0.35	24.71
07/21/87	1930	19.09	157.40	6.89	93.80	0.35	24.70
07/21/87	1945	23.71	154.20	8.46	92.60	0.35	24.47
07/21/87	2000	21.93	164.20	6.41	92.20	0.35	23.34
07/21/87	2015	20.76	166.20	6.41	92.40	0.35	22.88
07/21/87	2030	22.09	160.20	4.85	91.20	0.35	22.81

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/21/87	2045	20.29	160.00	4.10	90.40	0.35	23.47
07/21/87	2100	20.38	160.30	4.85	89.80	0.35	23.53
07/21/87	2115	19.28	160.60	4.03	89.30	0.35	23.57
07/21/87	2130	18.77	159.40	4.03	88.70	0.35	23.57
07/21/87	2145	18.42	157.00	5.60	88.00	0.35	23.55
07/21/87	2200	16.56	155.00	5.19	87.20	0.35	23.53
07/21/87	2215	18.12	155.10	4.03	86.40	0.35	23.43
07/21/87	2230	19.65	159.30	4.37	85.70	0.35	23.28
07/21/87	2245	18.97	161.80	4.10	84.90	0.35	23.44
07/21/87	2300	17.74	165.20	4.44	84.50	0.35	23.46
07/21/87	2315	15.32	169.70	4.44	83.70	0.35	23.72
07/21/87	2330	19.43	178.20	4.38	83.70	0.35	23.72
07/21/87	2345	19.96	194.20	3.62	83.20	0.35	23.68
07/22/87	0	18.40	191.50	5.20	82.40	0.35	24.75
07/22/87	15	24.18	186.90	4.45	82.10	0.35	24.75
07/22/87	30	22.32	184.30	4.45	81.50	0.35	24.75
07/22/87	45	17.58	182.60	4.45	80.80	0.35	24.74
07/22/87	100	17.73	184.10	2.80	80.50	0.35	24.74
07/22/87	115	15.37	180.00	3.21	79.70	0.35	24.74
07/22/87	130	13.70	177.80	2.81	79.20	0.35	24.74
07/22/87	145	11.87	176.30	2.81	78.30	0.35	24.74
07/22/87	200	13.39	169.20	3.63	77.60	0.35	24.74
07/22/87	215	11.87	177.30	2.81	76.40	0.35	24.73
07/22/87	230	10.83	176.50	2.05	75.30	0.35	24.72
07/22/87	245	8.56	186.50	6.78	74.40	0.35	24.74
07/22/87	300	7.96	183.60	1.99	73.60	0.35	24.73
07/22/87	315	7.26	172.40	1.64	73.00	0.35	24.70
07/22/87	330	8.76	184.50	4.38	72.10	0.35	24.67
07/22/87	345	6.99	208.40	3.97	70.90	0.35	24.61
07/22/87	400	8.22	216.70	3.97	72.00	0.35	23.63
07/22/87	415	5.53	210.80	9.11	70.30	0.35	23.41
07/22/87	430	3.93	209.90	15.76	69.09	0.35	24.15
07/22/87	445	4.65	304.70	12.20	69.89	0.35	24.25
07/22/87	500	7.07	16.21	3.22	67.60	0.35	24.76
07/22/87	515	5.63	10.85	3.22	66.91	0.35	24.77
07/22/87	530	5.95	349.30	11.04	66.71	0.35	24.79
07/22/87	545	8.83	338.00	3.22	66.55	0.35	24.80
07/22/87	600	9.54	340.90	2.81	66.55	0.35	24.80
07/22/87	615	8.25	336.80	2.40	65.98	0.35	24.81
07/22/87	630	6.59	340.90	1.58	65.62	0.35	24.81
07/22/87	645	2.99	346.70	11.38	65.53	0.35	24.80
07/22/87	700	1.00	345.10	22.76	64.18	0.35	24.81
07/22/87	715	0.97	317.30	17.28	64.30	0.35	24.79
07/22/87	730	3.04	239.30	15.70	64.16	0.35	24.75
07/22/87	745	8.31	211.00	3.98	62.84	0.35	24.75
07/22/87	800	8.02	208.50	2.40	62.83	0.35	24.75

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/22/87	815	6.77	221.10	2.74	63.29	0.35	24.75
07/22/87	830	7.12	226.10	3.57	63.53	0.35	24.78
07/22/87	845	6.93	223.20	3.57	64.11	0.35	24.80
07/22/87	900	7.08	216.80	2.40	65.40	0.35	24.74
07/22/87	915	7.81	212.50	4.80	67.51	0.35	22.97
07/22/87	930	8.93	218.30	4.04	69.18	0.35	23.22
07/22/87	945	8.19	215.70	5.21	70.60	0.35	23.85
07/22/87	1000	8.61	207.60	9.93	71.60	0.35	24.64
07/22/87	1015	8.37	203.30	10.33	72.60	0.35	23.56
07/22/87	1030	7.50	198.10	5.61	73.90	0.35	23.62
07/22/87	1045	4.09	190.40	31.87	75.00	0.35	23.77
07/22/87	1100	3.86	192.50	20.98	76.40	0.35	24.64
07/22/87	1115	4.45	191.30	30.67	76.50	0.35	24.85
07/22/87	1130	5.70	175.40	22.06	77.00	0.35	24.85
07/22/87	1145	4.71	171.00	24.78	77.80	0.35	24.85
07/22/87	1200	5.41	174.40	8.39	78.10	0.35	24.36
07/22/87	1215	4.97	175.10	25.99	78.70	0.35	22.67
07/22/87	1230	6.69	155.30	11.12	79.60	0.35	22.80
07/22/87	1245	7.05	150.30	15.07	80.20	0.35	22.59
07/22/87	1300	8.34	134.50	20.18	81.10	0.35	22.30
07/22/87	1315	9.11	142.10	25.97	81.90	0.35	22.20
07/22/87	1330	8.09	132.10	21.33	83.60	0.35	22.21
07/22/87	1345	6.86	137.40	15.81	84.50	0.35	22.94
07/22/87	1400	8.19	124.20	22.07	85.30	0.35	23.25
07/22/87	1415	7.45	124.80	14.31	86.30	0.35	22.88
07/22/87	1430	7.55	133.90	44.88	87.30	0.35	22.96
07/22/87	1445	7.59	148.60	15.12	88.30	0.35	23.63
07/22/87	1500	8.99	133.60	21.79	88.40	0.35	23.09
07/22/87	1515	8.60	141.30	25.26	89.50	0.35	22.64
07/22/87	1530	8.99	136.00	15.93	90.40	0.35	23.50
07/22/87	1545	9.63	128.80	15.12	91.10	0.35	23.03
07/22/87	1600	11.14	118.40	7.29	90.90	0.35	22.79
07/22/87	1615	11.52	126.60	20.63	90.70	0.35	22.56
07/22/87	1630	12.67	146.20	19.82	91.10	0.35	22.44
07/22/87	1645	9.30	156.10	24.11	91.10	0.35	22.31
07/22/87	1700	9.44	131.80	15.12	91.80	0.35	22.24
07/22/87	1715	10.43	126.40	17.09	92.10	0.35	22.23
07/22/87	1730	9.36	130.20	11.58	92.50	0.35	22.18
07/22/87	1745	11.54	114.80	22.54	92.70	0.35	22.17
07/22/87	1800	11.08	102.80	13.55	93.40	0.35	22.12
07/22/87	1815	9.23	127.30	36.30	93.00	0.35	21.99
07/22/87	1830	11.62	152.40	13.96	92.40	0.35	22.23
07/22/87	1845	10.69	130.40	17.44	92.80	0.35	22.64
07/22/87	1900	12.38	156.30	17.11	93.40	0.35	22.48
07/22/87	1915	11.94	141.20	13.15	93.10	0.35	22.33
07/22/87	1930	12.77	152.40	7.23	92.20	0.35	22.77

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/22/87	1945	13.60	155.70	4.84	91.30	0.35	22.86
07/22/87	2000	15.49	246.10	14.26	90.00	0.35	22.75
07/22/87	2015	23.68	327.00	5.59	86.60	0.35	22.49
07/22/87	2030	16.19	346.50	9.96	83.00	0.35	24.69
07/22/87	2045	12.55	341.80	5.19	79.10	0.35	23.90
07/22/87	2100	8.98	339.90	8.74	77.30	0.35	24.14
07/22/87	2115	4.07	28.78	16.13	76.60	0.35	23.99
07/22/87	2130	4.30	57.92	9.91	75.90	0.35	23.94
07/22/87	2145	6.79	43.19	3.97	75.60	0.35	24.37
07/22/87	2200	6.24	50.13	7.18	75.70	0.35	24.40
07/22/87	2215	4.67	50.09	12.24	74.60	0.35	23.89
07/22/87	2230	6.23	78.10	4.04	74.90	0.35	23.97
07/22/87	2245	8.74	92.80	6.36	75.00	0.35	23.69
07/22/87	2300	9.93	104.30	4.79	73.90	0.35	23.45
07/22/87	2315	9.74	113.30	4.79	73.30	0.35	23.39
07/22/87	2330	10.41	119.10	5.54	72.70	0.35	23.58
07/22/87	2345	10.18	134.20	2.81	71.90	0.35	24.08
07/23/87	0	9.25	138.40	5.55	70.90	0.35	24.67
07/23/87	15	4.86	169.10	10.27	69.74	0.35	24.76
07/23/87	30	6.62	224.10	7.88	69.98	0.35	24.80
07/23/87	45	8.52	189.10	4.73	71.30	0.35	24.82
07/23/87	100	7.94	184.20	3.56	70.90	0.35	24.82
07/23/87	115	7.81	176.60	2.40	71.80	0.35	24.82
07/23/87	130	3.85	180.60	32.61	70.80	0.35	24.82
07/23/87	145	5.84	308.70	11.79	69.74	0.35	24.81
07/23/87	200	1.95	249.00	36.11	70.60	0.35	24.79
07/23/87	215	2.85	117.30	5.96	70.20	0.35	24.78
07/23/87	230	6.05	154.00	9.46	69.95	0.35	24.81
07/23/87	245	8.72	187.20	1.65	68.21	0.35	24.81
07/23/87	300	8.42	192.00	3.22	68.43	0.35	24.81
07/23/87	315	8.69	205.50	3.22	69.01	0.35	24.81
07/23/87	330	6.65	221.70	3.22	67.65	0.35	24.81
07/23/87	345	6.86	248.30	2.81	67.31	0.35	24.81
07/23/87	400	4.70	241.70	10.63	66.86	0.35	24.81
07/23/87	415	4.61	204.10	3.56	66.59	0.35	24.81
07/23/87	430	7.56	195.40	1.58	67.86	0.35	24.81
07/23/87	445	7.31	210.00	2.74	68.50	0.35	24.81
07/23/87	500	4.36	200.30	52.38	66.64	0.35	24.81
07/23/87	515	3.31	214.80	1.99	67.13	0.35	24.81
07/23/87	530	4.94	203.90	3.56	66.60	0.35	24.81
07/23/87	545	5.26	200.10	2.40	66.00	0.35	24.81
07/23/87	600	5.71	202.40	1.99	66.24	0.35	24.80
07/23/87	615	6.28	199.20	1.58	65.59	0.35	24.80
07/23/87	630	6.61	199.70	2.40	64.32	0.35	24.79
07/23/87	645	5.59	199.20	2.33	64.13	0.35	24.79
07/23/87	700	6.40	206.00	0.75	64.39	0.35	24.78

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/23/87	715	5.48	208.50	2.33	64.24	0.35	24.76
07/23/87	730	5.21	203.80	1.92	63.67	0.35	24.76
07/23/87	745	5.86	203.60	3.16	64.40	0.35	24.74
07/23/87	800	4.62	211.90	2.33	64.28	0.35	24.72
07/23/87	815	6.77	209.80	1.58	64.20	0.35	24.72
07/23/87	830	6.26	209.10	3.50	65.29	0.35	24.71
07/23/87	845	5.17	216.00	6.31	65.03	0.35	24.72
07/23/87	900	5.40	211.90	4.32	65.84	0.35	23.25
07/23/87	915	5.84	214.30	4.39	67.51	0.35	23.07
07/23/87	930	6.39	213.60	4.73	68.91	0.35	23.96
07/23/87	945	7.72	218.90	6.37	70.60	0.35	24.71
07/23/87	1000	7.27	215.40	4.38	72.60	0.35	24.60
07/23/87	1015	7.00	220.00	7.19	73.80	0.35	23.66
07/23/87	1030	3.97	224.10	18.95	76.30	0.35	24.00
07/23/87	1045	4.66	226.90	14.29	77.50	0.35	24.04
07/23/87	1100	3.63	226.00	18.93	78.80	0.35	24.82
07/23/87	1115	2.09	240.20	39.75	80.80	0.35	24.83
07/23/87	1130	2.37	58.94	38.56	82.80	0.35	24.83
07/23/87	1145	3.43	349.10	30.35	82.60	0.35	24.83
07/23/87	1200	4.31	54.56	15.41	84.00	0.35	24.83
07/23/87	1215	4.18	69.55	30.33	84.70	0.35	24.83
07/23/87	1230	4.44	48.41	22.14	86.20	0.35	24.83
07/23/87	1245	7.22	44.46	13.96	86.00	0.35	24.83
07/23/87	1300	8.61	37.77	12.74	86.60	0.35	24.83
07/23/87	1315	9.97	52.03	8.44	87.50	0.35	24.83
07/23/87	1330	8.64	68.68	10.42	88.90	0.35	24.83
07/23/87	1345	10.35	55.79	14.71	90.10	0.35	24.83
07/23/87	1400	10.47	76.50	11.17	90.10	0.35	24.82
07/23/87	1415	11.96	68.21	8.03	90.00	0.35	24.81
07/23/87	1430	7.64	45.79	25.67	90.70	0.35	24.82
07/23/87	1445	11.08	78.40	48.00	91.20	0.35	24.81
07/23/87	1500	9.56	73.80	14.36	91.30	0.35	24.81
07/23/87	1515	10.89	69.62	14.71	92.30	0.35	24.80
07/23/87	1530	9.82	76.60	27.98	92.30	0.35	24.80
07/23/87	1545	9.73	85.40	17.50	92.30	0.35	24.80
07/23/87	1600	9.79	67.16	10.01	92.90	0.35	24.79
07/23/87	1615	7.88	87.00	37.85	93.20	0.35	24.79
07/23/87	1630	11.63	66.36	11.16	94.20	0.35	24.78
07/23/87	1645	10.58	70.40	19.40	94.50	0.35	24.78
07/23/87	1700	9.72	59.68	9.60	94.50	0.35	24.78
07/23/87	1715	10.50	80.80	19.81	94.70	0.35	24.78
07/23/87	1730	13.58	81.40	17.09	94.20	0.35	24.78
07/23/87	1745	7.76	104.10	15.12	92.70	0.35	24.78
07/23/87	1800	10.92	98.40	21.73	94.20	0.35	24.77
07/23/87	1815	9.95	65.61	12.33	94.40	0.35	24.77
07/23/87	1830	10.03	73.90	20.57	94.30	0.35	24.77

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/23/87	1845	10.94	79.50	14.71	94.80	0.35	24.76
07/23/87	1900	10.64	77.30	14.72	94.00	0.35	24.76
07/23/87	1915	11.86	85.20	19.42	94.30	0.35	24.76
07/23/87	1930	10.19	93.80	9.61	94.30	0.35	24.75
07/23/87	1945	10.26	94.70	15.47	94.20	0.35	24.75
07/23/87	2000	5.53	86.80	13.57	94.00	0.35	24.75
07/23/87	2015	11.08	86.00	8.39	93.80	0.35	24.76
07/23/87	2030	12.32	96.10	5.66	92.20	0.35	24.76
07/23/87	2045	13.87	80.50	5.66	92.40	0.35	24.76
07/23/87	2100	13.65	101.10	6.00	92.30	0.35	24.76
07/23/87	2115	10.14	86.10	5.59	92.00	0.35	24.76
07/23/87	2130	11.51	83.80	4.44	90.40	0.35	24.75
07/23/87	2145	9.32	80.90	3.62	88.90	0.35	24.75
07/23/87	2200	8.21	81.30	4.03	87.40	0.35	23.77
07/23/87	2215	9.80	90.00	3.62	85.80	0.35	23.58
07/23/87	2230	9.86	110.90	2.39	85.00	0.35	23.63
07/23/87	2245	9.66	113.50	3.21	84.60	0.35	23.63
07/23/87	2300	9.34	115.20	2.80	83.60	0.35	23.70
07/23/87	2315	9.66	124.10	4.38	83.20	0.35	23.66
07/23/87	2330	10.16	128.70	2.46	81.70	0.35	23.65
07/23/87	2345	9.75	128.70	4.45	80.80	0.35	23.70
07/24/87	0	9.54	143.20	3.21	80.10	0.35	23.66
07/24/87	15	10.37	155.20	4.04	80.00	0.35	23.44
07/24/87	30	10.17	168.90	2.87	79.30	0.35	23.33
07/24/87	45	14.42	193.90	5.20	80.50	0.35	23.39
07/24/87	100	19.08	199.90	6.36	78.70	0.35	23.00
07/24/87	115	18.60	216.70	4.45	73.30	0.35	23.95
07/24/87	130	23.40	194.10	2.87	74.20	0.35	24.83
07/24/87	145	23.38	178.20	7.94	75.00	0.35	24.84
07/24/87	200	24.83	170.10	4.04	77.10	0.35	24.84
07/24/87	215	24.73	150.60	4.86	78.10	0.35	24.83
07/24/87	230	23.36	125.20	5.61	79.30	0.35	24.82
07/24/87	245	18.12	155.80	3.22	76.40	0.35	24.82
07/24/87	300	16.10	148.70	4.04	74.60	0.35	24.83
07/24/87	315	12.87	154.10	3.29	73.10	0.35	24.84
07/24/87	330	12.39	169.90	3.22	73.20	0.35	24.84
07/24/87	345	11.07	174.70	2.81	73.40	0.35	24.84
07/24/87	400	11.45	171.60	2.05	74.10	0.35	24.84
07/24/87	415	10.14	169.80	2.05	73.40	0.35	24.84
07/24/87	430	10.86	172.20	2.05	73.10	0.35	24.84
07/24/87	445	10.33	195.80	7.53	71.70	0.35	24.84
07/24/87	500	7.56	200.40	5.14	69.72	0.35	24.15
07/24/87	515	8.20	215.30	3.22	69.74	0.35	24.58
07/24/87	530	8.93	215.60	2.06	69.57	0.35	24.77
07/24/87	545	8.35	203.30	2.06	69.12	0.35	23.95
07/24/87	600	6.87	204.10	5.55	67.88	0.35	23.80

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/24/87	615	9.21	181.40	12.20	67.44	0.35	23.45
07/24/87	630	11.78	176.00	10.28	67.07	0.35	22.93
07/24/87	645	10.95	183.30	6.30	67.47	0.35	22.75
07/24/87	700	9.54	200.20	1.99	67.46	0.35	22.64
07/24/87	715	7.95	176.80	2.40	66.50	0.35	22.73
07/24/87	730	4.59	182.70	1.99	66.84	0.35	23.31
07/24/87	745	8.47	184.90	5.89	67.85	0.35	24.72
07/24/87	800	4.69	119.00	22.01	65.47	0.35	24.71
07/24/87	815	5.18	98.50	19.26	62.22	0.35	23.46
07/24/87	830	5.87	123.30	16.87	63.19	0.35	23.20
07/24/87	845	4.56	119.20	5.48	63.95	0.35	24.12
07/24/87	900	1.78	105.70	16.52	66.74	0.35	23.15
07/24/87	915	1.91	63.83	29.46	69.09	0.35	23.44
07/24/87	930	2.23	29.50	27.12	70.30	0.35	23.65
07/24/87	945	1.47	30.38	54.22	71.50	0.35	23.62
07/24/87	1000	2.88	306.40	12.66	71.90	0.35	23.70
07/24/87	1015	2.88	299.90	12.59	72.80	0.35	23.49
07/24/87	1030	5.39	306.90	13.40	72.60	0.35	23.26
07/24/87	1045	8.18	329.60	11.07	72.00	0.35	22.55
07/24/87	1100	6.03	341.40	15.78	72.40	0.35	22.38
07/24/87	1115	3.94	348.50	23.22	73.50	0.35	22.20
07/24/87	1130	5.60	342.90	12.70	74.40	0.35	22.13
07/24/87	1145	6.10	344.40	20.54	75.20	0.35	22.48
07/24/87	1200	5.61	1.77	30.37	76.20	0.35	22.84
07/24/87	1215	6.35	0.43	27.22	76.60	0.35	23.09
07/24/87	1230	5.04	22.10	17.80	77.90	0.35	23.32
07/24/87	1245	5.70	336.10	9.61	78.10	0.35	23.34
07/24/87	1300	4.39	2.70	33.87	80.40	0.35	23.47
07/24/87	1315	4.45	11.49	18.60	80.40	0.35	23.01
07/24/87	1330	4.12	344.50	17.03	81.10	0.35	23.37
07/24/87	1345	4.48	349.40	22.14	81.90	0.35	23.31
07/24/87	1400	4.53	23.16	29.96	83.50	0.35	22.63
07/24/87	1415	3.07	310.00	42.96	86.60	0.35	24.38
07/24/87	1430	3.84	92.00	59.42	87.70	0.35	24.88
07/24/87	1445	4.22	348.80	37.84	87.80	0.35	24.90
07/24/87	1500	4.49	294.10	36.67	88.10	0.35	24.90
07/24/87	1515	8.36	303.10	20.61	87.10	0.35	24.89
07/24/87	1530	6.07	344.20	55.51	87.80	0.35	24.88
07/24/87	1545	6.53	9.87	25.24	88.80	0.35	24.88
07/24/87	1600	6.83	340.20	21.02	89.00	0.35	24.88
07/24/87	1615	5.73	329.60	22.99	89.30	0.35	24.87
07/24/87	1630	5.01	347.30	35.10	89.10	0.35	24.86
07/24/87	1645	5.50	335.00	36.68	90.20	0.35	24.86
07/24/87	1700	6.99	343.80	22.59	91.70	0.35	24.85
07/24/87	1715	9.22	316.50	9.59	91.70	0.35	24.85
07/24/87	1730	8.47	317.10	14.35	92.30	0.35	24.85

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/24/87	1745	7.54	353.80	11.97	92.70	0.35	24.85
07/24/87	1800	9.98	28.53	10.00	90.30	0.35	24.84
07/24/87	1815	12.73	60.64	6.06	87.70	0.35	23.70
07/24/87	1830	16.15	99.70	4.84	79.90	0.38	23.85
07/24/87	1845	16.12	130.20	13.03	77.00	0.57	24.83
07/24/87	1900	11.38	79.10	14.55	79.00	0.01	24.61
07/24/87	1915	11.68	41.05	11.48	80.90	0.05	24.87
07/24/87	1930	9.11	76.30	4.79	78.50	0.05	24.86
07/24/87	1945	3.91	26.45	7.52	75.00	0.05	24.86
07/24/87	2000	3.71	51.30	12.66	78.30	0.05	24.86
07/24/87	2015	3.00	276.20	6.36	78.20	0.05	24.86
07/24/87	2030	1.65	305.20	31.06	79.90	0.05	24.58
07/24/87	2045	4.82	94.80	8.35	81.70	0.05	23.40
07/24/87	2100	5.24	82.30	9.51	80.30	0.05	23.01
07/24/87	2115	6.67	84.00	14.23	80.10	0.05	22.33
07/24/87	2130	3.99	94.00	12.65	80.60	0.05	22.04
07/24/87	2145	9.80	200.20	5.61	81.40	0.05	21.93
07/24/87	2200	6.15	131.00	8.76	83.40	0.05	21.82
07/24/87	2215	5.20	105.00	4.38	83.60	0.05	21.74
07/24/87	2230	8.50	98.20	2.46	81.30	0.05	21.82
07/24/87	2245	9.69	106.00	2.81	81.60	0.05	22.39
07/24/87	2300	8.64	96.60	13.00	78.00	0.05	23.19
07/24/87	2315	6.43	50.72	6.36	75.10	0.05	24.88
07/24/87	2330	4.48	75.40	8.76	76.50	0.05	24.89
07/24/87	2345	3.65	77.20	9.93	79.60	0.05	24.89
07/25/87	0	1.42	125.00	26.36	79.70	0.05	24.89
07/25/87	15	3.01	171.80	2.46	80.00	0.05	24.89
07/25/87	30	6.86	159.20	2.46	80.10	0.05	24.89
07/25/87	45	10.20	154.60	1.23	75.70	0.05	24.89
07/25/87	100	9.01	169.30	3.22	75.40	0.05	24.89
07/25/87	115	5.23	212.50	13.42	73.40	0.05	24.89
07/25/87	130	5.45	234.80	2.46	74.60	0.05	24.89
07/25/87	145	6.93	208.30	6.78	74.80	0.05	24.89
07/25/87	200	8.85	185.10	3.63	74.70	0.05	24.89
07/25/87	215	7.67	187.40	3.22	73.30	0.05	24.89
07/25/87	230	7.22	191.40	3.22	72.70	0.05	24.89
07/25/87	245	6.56	183.90	3.22	71.60	0.05	24.89
07/25/87	300	8.12	174.00	1.99	71.70	0.05	24.88
07/25/87	315	8.81	177.40	4.38	70.10	0.05	24.88
07/25/87	330	7.91	188.00	2.81	69.06	0.05	24.88
07/25/87	345	8.45	194.40	9.87	69.49	0.05	24.87
07/25/87	400	8.34	198.70	4.73	69.55	0.05	24.87
07/25/87	415	7.60	196.30	1.65	69.51	0.05	24.87
07/25/87	430	6.81	195.60	1.23	69.34	0.05	24.86
07/25/87	445	6.16	187.30	1.58	69.16	0.05	24.86
07/25/87	500	4.87	198.00	14.19	67.69	0.05	24.83

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/25/87	515	4.18	213.80	2.74	67.19	0.05	24.77
07/25/87	530	4.52	207.90	3.15	67.64	0.05	24.80
07/25/87	545	5.42	202.00	1.58	67.27	0.05	24.80
07/25/87	600	4.75	201.50	3.56	66.94	0.05	24.80
07/25/87	615	2.21	202.60	17.28	67.04	0.05	24.79
07/25/87	630	2.32	205.00	12.96	67.35	0.05	24.77
07/25/87	645	4.25	191.30	4.32	67.44	0.05	24.76
07/25/87	700	7.87	181.20	1.58	67.64	0.05	24.76
07/25/87	715	8.87	179.40	2.33	67.81	0.05	24.76
07/25/87	730	6.85	178.30	1.17	67.32	0.05	24.76
07/25/87	745	7.19	170.70	1.17	67.25	0.05	24.76
07/25/87	800	6.22	168.10	1.58	66.54	0.05	24.76
07/25/87	815	3.61	193.60	23.11	65.44	0.05	24.76
07/25/87	830	3.30	224.10	8.23	65.47	0.05	24.76
07/25/87	845	4.86	182.10	2.40	66.20	0.05	24.77
07/25/87	900	5.52	176.60	3.15	66.74	0.05	22.73
07/25/87	915	6.58	178.20	3.15	68.21	0.05	22.20
07/25/87	930	6.78	180.00	3.97	69.17	0.05	22.46
07/25/87	945	4.89	205.50	8.70	70.30	0.05	23.19
07/25/87	1000	5.78	203.50	5.96	70.70	0.05	22.67
07/25/87	1015	8.81	209.40	6.37	71.50	0.05	22.54
07/25/87	1030	10.10	212.40	3.69	71.80	0.05	22.51
07/25/87	1045	10.71	219.00	3.28	73.30	0.05	23.29
07/25/87	1100	10.38	221.40	6.02	73.90	0.05	23.06
07/25/87	1115	8.75	235.90	5.95	75.00	0.05	23.84
07/25/87	1130	5.73	223.80	20.16	76.50	0.05	24.42
07/25/87	1145	4.98	233.00	15.44	78.10	0.05	23.96
07/25/87	1200	3.80	234.30	22.94	79.10	0.05	23.68
07/25/87	1215	4.64	271.90	20.20	79.60	0.05	23.54
07/25/87	1230	3.87	278.80	22.10	80.40	0.05	23.09
07/25/87	1245	3.67	280.50	19.84	81.90	0.05	23.41
07/25/87	1300	3.47	263.90	24.46	83.20	0.05	23.37
07/25/87	1315	2.08	234.40	54.02	85.40	0.05	23.91
07/25/87	1330	5.33	318.00	16.68	84.80	0.05	24.87
07/25/87	1345	5.00	323.00	22.12	84.80	0.05	24.86
07/25/87	1400	5.70	303.60	20.62	86.10	0.05	24.86
07/25/87	1415	3.78	6.96	60.23	87.30	0.05	24.86
07/25/87	1430	4.66	331.10	26.81	89.20	0.05	24.85
07/25/87	1445	6.29	55.87	33.95	90.00	0.05	24.84
07/25/87	1500	11.16	112.40	9.59	90.00	0.05	24.83
07/25/87	1515	8.34	112.00	9.60	90.60	0.05	24.83
07/25/87	1530	6.42	157.60	13.95	90.60	0.05	24.83
07/25/87	1545	5.55	148.30	55.13	91.40	0.05	24.83
07/25/87	1600	9.70	126.40	27.23	91.00	0.05	24.83
07/25/87	1615	10.43	137.40	12.73	91.30	0.05	24.83
07/25/87	1630	8.46	129.70	17.84	91.20	0.05	24.82

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/25/87	1645	9.62	102.10	49.91	91.20	0.05	24.81
07/25/87	1700	10.36	133.60	37.39	91.40	0.05	24.81
07/25/87	1715	11.83	109.70	20.97	92.30	0.05	24.81
07/25/87	1730	10.98	132.40	20.98	91.90	0.05	24.78
07/25/87	1745	7.74	148.30	13.15	92.80	0.05	23.25
07/25/87	1800	13.82	117.90	10.42	92.20	0.05	22.56
07/25/87	1815	8.15	121.10	19.82	92.30	0.05	22.51
07/25/87	1830	8.32	133.60	19.41	92.50	0.05	21.90
07/25/87	1845	10.58	163.90	14.31	92.40	0.05	21.61
07/25/87	1900	10.89	161.90	13.90	92.70	0.05	21.62
07/25/87	1915	9.27	143.00	26.04	92.50	0.05	21.92
07/25/87	1930	9.18	174.50	14.72	92.60	0.05	22.12
07/25/87	1945	7.24	171.40	10.77	92.80	0.05	22.09
07/25/87	2000	7.29	157.70	28.37	93.00	0.05	21.57
07/25/87	2015	5.68	160.20	27.96	93.00	0.05	21.40
07/25/87	2030	5.02	165.60	17.46	92.80	0.05	21.44
07/25/87	2045	5.95	158.90	11.12	92.80	0.05	21.49
07/25/87	2100	5.32	191.50	9.96	92.70	0.05	22.31
07/25/87	2115	5.65	173.90	6.41	92.30	0.05	22.09
07/25/87	2130	5.72	181.80	8.40	91.40	0.05	22.24
07/25/87	2145	3.66	185.80	5.26	90.80	0.05	22.59
07/25/87	2200	3.15	181.80	2.87	89.60	0.05	23.24
07/25/87	2215	4.40	154.20	7.58	89.00	0.05	23.47
07/25/87	2230	6.88	136.50	9.09	87.80	0.05	23.87
07/25/87	2245	11.34	137.10	4.03	83.60	0.05	23.84
07/25/87	2300	10.97	150.10	2.87	81.80	0.05	23.37
07/25/87	2315	12.09	155.50	3.28	82.20	0.05	23.22
07/25/87	2330	13.10	160.00	3.69	82.20	0.05	22.99
07/25/87	2345	11.90	150.30	3.28	80.90	0.05	22.79
07/26/87	0	12.01	153.60	2.87	79.80	0.05	22.71
07/26/87	15	10.85	153.10	2.46	78.40	0.05	23.45
07/26/87	30	10.22	157.60	2.87	77.50	0.05	24.07
07/26/87	45	10.18	150.70	2.05	76.50	0.05	24.27
07/26/87	100	9.24	163.20	6.78	75.50	0.05	24.65
07/26/87	115	11.08	169.00	3.63	75.90	0.05	24.78
07/26/87	130	16.65	167.00	3.63	79.00	0.05	24.81
07/26/87	145	13.35	172.80	2.81	78.50	0.05	24.81
07/26/87	200	11.02	176.50	1.64	77.60	0.05	24.81
07/26/87	215	10.62	174.40	1.23	77.00	0.05	24.81
07/26/87	230	10.09	177.20	1.64	76.40	0.05	24.81
07/26/87	245	11.73	184.80	2.81	76.90	0.05	24.82
07/26/87	300	11.87	194.10	3.22	77.00	0.05	24.82
07/26/87	315	11.20	184.60	2.81	76.20	0.05	24.82
07/26/87	330	9.55	195.20	3.63	75.70	0.05	24.82
07/26/87	345	8.54	209.70	4.04	74.60	0.05	24.82
07/26/87	400	7.39	214.80	6.78	74.10	0.05	24.83

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/26/87	415	6.30	218.50	7.53	73.30	0.05	24.83
07/26/87	430	4.91	197.60	6.37	72.60	0.05	24.83
07/26/87	445	4.92	220.60	9.86	73.60	0.05	24.84
07/26/87	500	5.59	242.40	5.55	74.00	0.05	24.84
07/26/87	515	4.59	236.60	7.12	73.60	0.05	24.84
07/26/87	530	4.77	245.20	7.88	72.60	0.05	24.84
07/26/87	545	4.69	245.70	3.56	71.70	0.05	24.84
07/26/87	600	5.48	253.20	5.89	71.70	0.05	24.84
07/26/87	615	6.53	267.20	5.55	71.00	0.05	24.84
07/26/87	630	6.21	282.60	4.39	70.80	0.05	24.83
07/26/87	645	4.68	290.20	7.88	69.48	0.05	24.82
07/26/87	700	2.78	245.50	18.85	67.93	0.05	24.81
07/26/87	715	2.97	255.60	15.70	68.16	0.05	24.78
07/26/87	730	4.18	252.00	3.91	68.31	0.05	24.76
07/26/87	745	4.12	237.10	6.31	67.52	0.05	24.74
07/26/87	800	4.36	242.30	4.32	67.15	0.05	24.75
07/26/87	815	4.71	233.70	6.31	68.07	0.05	24.79
07/26/87	830	6.65	240.50	1.99	68.84	0.05	24.80
07/26/87	845	6.37	222.40	4.39	68.35	0.05	24.79
07/26/87	900	4.35	216.60	6.37	67.37	0.05	24.79
07/26/87	915	5.66	239.00	2.81	67.57	0.05	24.83
07/26/87	930	4.39	239.20	5.21	69.31	0.05	24.85
07/26/87	945	5.33	232.80	4.45	71.30	0.05	24.83
07/26/87	1000	5.20	228.30	10.74	72.80	0.05	24.79
07/26/87	1015	2.92	233.80	21.76	75.10	0.05	24.39
07/26/87	1030	2.18	310.40	18.53	76.60	0.05	24.25
07/26/87	1045	1.66	347.20	19.34	78.30	0.05	24.38
07/26/87	1100	3.45	359.70	11.54	77.50	0.05	23.21
07/26/87	1115	3.35	333.90	22.12	78.00	0.05	22.62
07/26/87	1130	4.12	330.60	17.40	78.30	0.05	22.45
07/26/87	1145	4.47	306.00	18.21	79.00	0.05	22.86
07/26/87	1200	4.26	319.20	30.33	80.30	0.05	23.41
07/26/87	1215	4.38	304.70	10.43	81.10	0.05	23.36
07/26/87	1230	4.62	330.10	15.46	81.80	0.05	23.03
07/26/87	1245	6.04	339.60	17.43	83.10	0.05	22.40
07/26/87	1300	8.00	347.40	19.00	83.60	0.05	21.86
07/26/87	1315	8.63	2.92	10.01	83.10	0.05	21.91
07/26/87	1330	9.79	355.90	10.76	83.20	0.05	22.31
07/26/87	1345	9.57	12.60	8.78	83.80	0.05	21.87
07/26/87	1400	7.61	357.30	13.49	84.30	0.05	21.68
07/26/87	1415	8.78	36.96	11.92	85.20	0.05	21.44
07/26/87	1430	7.35	31.92	22.13	85.70	0.05	21.35
07/26/87	1445	8.76	68.83	16.21	86.00	0.05	21.30
07/26/87	1500	9.13	53.86	21.73	87.30	0.05	21.28
07/26/87	1515	8.02	39.12	17.44	87.90	0.05	21.38
07/26/87	1530	6.27	22.83	8.44	88.80	0.05	21.48

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/26/87	1545	5.44	41.06	29.96	88.80	0.05	21.47
07/26/87	1600	8.58	57.43	13.14	89.70	0.05	21.78
07/26/87	1615	9.10	60.95	15.87	89.40	0.05	21.37
07/26/87	1630	8.44	41.60	24.04	90.00	0.05	21.26
07/26/87	1645	6.55	2.62	17.84	89.70	0.05	21.17
07/26/87	1700	7.43	0.87	23.29	89.40	0.05	21.16
07/26/87	1715	6.22	359.00	26.01	90.70	0.05	21.05
07/26/87	1730	6.20	359.40	17.43	90.60	0.05	21.01
07/26/87	1745	6.36	44.13	35.88	91.50	0.05	20.99
07/26/87	1800	6.91	343.50	14.71	91.50	0.05	20.87
07/26/87	1815	4.90	3.69	15.12	91.70	0.05	20.80
07/26/87	1830	7.56	321.90	9.60	91.80	0.05	20.75
07/26/87	1845	9.48	338.70	8.78	91.90	0.05	20.74
07/26/87	1900	7.75	357.30	15.87	92.30	0.05	20.86
07/26/87	1915	8.43	347.70	5.65	92.20	0.05	20.89
07/26/87	1930	10.68	335.10	11.51	91.70	0.05	20.88
07/26/87	1945	8.29	342.00	11.92	91.80	0.05	21.09
07/26/87	2000	9.46	341.10	6.00	91.80	0.05	21.17
07/26/87	2015	9.57	341.50	4.16	91.30	0.05	21.46
07/26/87	2030	9.05	342.00	6.07	90.70	0.05	21.99
07/26/87	2045	8.69	341.80	3.68	90.30	0.05	21.98
07/26/87	2100	9.92	340.40	4.09	89.90	0.05	22.22
07/26/87	2115	11.55	338.30	5.25	88.90	0.05	22.21
07/26/87	2130	9.80	324.90	6.01	87.40	0.05	22.56
07/26/87	2145	9.57	318.90	2.87	85.00	0.05	23.43
07/26/87	2200	8.94	317.70	2.87	83.50	0.05	24.43
07/26/87	2215	8.04	317.70	3.62	82.30	0.05	24.24
07/26/87	2230	6.49	338.00	4.78	81.90	0.05	23.84
07/26/87	2245	7.36	330.90	9.98	80.60	0.05	23.85
07/26/87	2300	8.09	331.70	15.86	81.80	0.05	23.71
07/26/87	2315	5.87	347.90	6.36	80.40	0.05	23.22
07/26/87	2330	6.64	343.40	2.46	80.00	0.05	23.18
07/26/87	2345	6.43	342.80	2.05	79.10	0.05	23.90
07/27/87	0	5.34	344.60	3.63	78.00	0.05	24.16
07/27/87	15	5.23	344.70	1.23	77.80	0.05	24.11
07/27/87	30	6.69	327.20	3.63	77.70	0.05	24.15
07/27/87	45	4.97	287.80	13.42	76.40	0.05	24.24
07/27/87	100	5.67	291.50	2.46	75.90	0.05	24.14
07/27/87	115	5.04	268.80	5.55	75.40	0.05	24.07
07/27/87	130	6.07	243.90	7.53	75.10	0.05	24.06
07/27/87	145	4.90	247.90	6.71	75.60	0.05	23.97
07/27/87	200	4.91	256.50	11.03	76.30	0.05	23.95
07/27/87	215	4.91	234.70	9.04	75.40	0.05	23.93
07/27/87	230	3.73	257.40	5.55	76.00	0.05	23.84
07/27/87	245	3.26	245.40	5.55	75.80	0.05	23.84
07/27/87	300	4.61	218.60	3.97	75.60	0.05	23.88

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/27/87	315	5.94	231.60	10.69	74.20	0.05	23.84
07/27/87	330	3.75	243.70	9.86	74.20	0.05	23.97
07/27/87	345	2.68	210.30	23.98	73.80	0.05	24.34
07/27/87	400	1.56	202.60	14.59	74.50	0.05	24.67
07/27/87	415	3.94	156.60	8.29	74.80	0.05	24.73
07/27/87	430	6.58	168.30	1.58	74.00	0.05	24.76
07/27/87	445	6.91	176.40	3.15	74.70	0.05	24.80
07/27/87	500	4.28	174.30	40.43	71.90	0.05	24.80
07/27/87	515	3.31	107.10	6.30	69.16	0.05	24.80
07/27/87	530	8.27	132.40	4.32	67.87	0.05	24.80
07/27/87	545	9.78	139.50	1.17	69.43	0.05	24.80
07/27/87	600	9.73	153.90	2.33	69.17	0.05	24.80
07/27/87	615	10.73	150.20	1.58	68.94	0.05	24.80
07/27/87	630	8.47	155.20	4.32	67.34	0.05	24.80
07/27/87	645	7.63	159.20	6.72	68.60	0.05	24.81
07/27/87	700	6.72	166.90	4.73	67.83	0.05	24.82
07/27/87	715	7.92	150.50	2.74	66.47	0.05	24.82
07/27/87	730	7.78	154.20	2.40	65.38	0.05	24.82
07/27/87	745	8.20	154.80	1.99	65.54	0.05	24.82
07/27/87	800	8.06	155.90	1.99	65.10	0.05	24.82
07/27/87	815	6.84	157.60	1.99	65.60	0.05	24.82
07/27/87	830	5.44	179.90	1.99	66.81	0.05	24.82
07/27/87	845	5.35	216.40	1.65	69.22	0.05	24.81
07/27/87	900	4.53	226.70	4.04	69.25	0.05	24.79
07/27/87	915	3.79	236.20	5.21	69.48	0.05	24.59
07/27/87	930	3.05	235.60	6.78	70.40	0.05	23.81
07/27/87	945	3.55	228.50	8.01	71.80	0.05	23.40
07/27/87	1000	4.11	240.40	8.76	73.90	0.05	23.71
07/27/87	1015	4.29	257.70	12.65	75.40	0.05	23.86
07/27/87	1030	4.03	297.30	11.08	76.20	0.05	23.90
07/27/87	1045	2.00	330.00	49.13	78.50	0.05	24.64
07/27/87	1100	2.58	10.77	38.99	79.20	0.05	24.79
07/27/87	1115	3.28	352.00	13.51	79.70	0.05	24.79
07/27/87	1130	3.75	19.86	22.51	80.00	0.05	24.79
07/27/87	1145	3.49	358.20	29.94	81.20	0.05	24.79
07/27/87	1200	3.91	2.15	19.77	81.30	0.05	24.78
07/27/87	1215	3.35	331.30	45.32	82.20	0.05	24.76
07/27/87	1230	3.43	316.60	24.45	83.50	0.05	24.45
07/27/87	1245	4.08	4.63	39.76	83.10	0.05	24.23
07/27/87	1300	4.83	332.50	22.12	83.20	0.05	24.22
07/27/87	1315	4.64	4.09	35.46	84.40	0.05	24.06
07/27/87	1330	3.98	313.20	47.23	84.80	0.05	23.77
07/27/87	1345	3.78	59.02	55.11	86.40	0.05	23.69
07/27/87	1400	3.32	20.04	59.05	87.30	0.05	23.79
07/27/87	1415	4.67	22.14	42.17	87.60	0.05	24.79
07/27/87	1430	4.55	49.72	21.77	87.60	0.05	24.80

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/27/87	1445	6.35	334.70	14.63	87.40	0.05	24.80
07/27/87	1500	5.18	346.00	35.84	88.40	0.05	24.80
07/27/87	1515	5.54	327.20	26.45	88.70	0.05	24.78
07/27/87	1530	6.10	355.10	23.73	89.10	0.05	24.78
07/27/87	1545	6.04	357.10	37.00	89.90	0.05	24.78
07/27/87	1600	5.68	354.80	57.87	90.50	0.05	24.78
07/27/87	1615	6.11	353.60	15.51	91.00	0.05	24.77
07/27/87	1630	5.14	359.10	22.99	91.30	0.05	24.77
07/27/87	1645	7.48	342.20	40.20	90.70	0.05	24.77
07/27/87	1700	8.97	332.90	7.28	91.40	0.05	24.76
07/27/87	1715	7.81	349.70	18.64	91.80	0.05	24.75
07/27/87	1730	10.37	339.80	10.81	92.20	0.05	24.74
07/27/87	1745	7.72	5.51	11.15	92.80	0.05	24.75
07/27/87	1800	9.54	30.24	14.29	92.60	0.05	24.74
07/27/87	1815	6.41	36.96	50.37	91.50	0.05	23.33
07/27/87	1830	9.16	33.46	11.10	90.60	0.05	22.63
07/27/87	1845	6.20	20.84	12.26	90.70	0.05	22.35
07/27/87	1900	8.16	336.50	16.22	91.00	0.05	21.79
07/27/87	1915	11.87	332.30	6.41	89.70	0.05	21.39
07/27/87	1930	11.62	321.00	6.48	89.30	0.05	21.92
07/27/87	1945	11.33	318.20	4.50	89.20	0.05	22.03
07/27/87	2000	10.78	323.70	5.66	89.00	0.05	22.29
07/27/87	2015	12.13	330.80	8.80	89.30	0.05	21.72
07/27/87	2030	14.77	336.70	2.87	88.10	0.05	22.18
07/27/87	2045	12.13	339.00	4.44	87.90	0.05	22.66
07/27/87	2100	12.25	331.90	8.40	86.20	0.05	23.74
07/27/87	2115	10.93	328.90	2.80	84.40	0.05	24.12
07/27/87	2130	9.71	337.80	2.05	85.00	0.05	23.35
07/27/87	2145	8.27	348.50	5.60	84.40	0.05	22.92
07/27/87	2200	7.78	356.60	5.95	83.40	0.05	22.57
07/27/87	2215	5.99	1.87	4.78	82.30	0.05	22.37
07/27/87	2230	5.13	10.58	2.39	80.80	0.05	22.28
07/27/87	2245	5.71	3.76	8.00	79.40	0.05	23.52
07/27/87	2300	6.75	345.20	3.62	78.40	0.05	24.37
07/27/87	2315	6.73	344.20	4.04	77.20	0.05	24.71
07/27/87	2330	6.87	343.70	2.87	76.80	0.05	24.70
07/27/87	2345	6.36	320.60	14.23	76.00	0.05	24.58
07/28/87	0	9.95	275.20	5.20	75.40	0.05	24.67
07/28/87	15	8.81	298.70	7.53	75.80	0.05	24.68
07/28/87	30	9.09	270.70	3.63	74.90	0.05	24.68
07/28/87	45	8.41	277.90	2.81	76.90	0.05	24.68
07/28/87	100	8.11	318.10	15.40	77.00	0.05	24.68
07/28/87	115	7.70	309.80	3.22	76.60	0.05	24.68
07/28/87	130	6.44	297.40	4.04	74.80	0.05	24.69
07/28/87	145	5.66	285.40	4.38	75.60	0.05	24.73
07/28/87	200	4.18	273.60	4.79	75.50	0.05	24.72

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/28/87	215	3.57	221.30	8.70	75.00	0.05	24.72
07/28/87	230	2.17	197.30	3.97	74.40	0.05	24.74
07/28/87	245	1.59	204.80	25.48	74.80	0.05	24.69
07/28/87	300	3.08	96.90	10.28	72.80	0.05	24.36
07/28/87	315	3.30	96.60	11.79	72.50	0.05	24.10
07/28/87	330	6.13	165.80	6.30	72.70	0.05	24.52
07/28/87	345	5.62	192.00	5.14	73.80	0.05	24.61
07/28/87	400	6.75	200.40	2.40	72.20	0.05	24.61
07/28/87	415	7.41	201.90	1.99	71.70	0.05	24.63
07/28/87	430	7.16	193.80	1.58	70.60	0.05	24.63
07/28/87	445	6.63	201.00	3.15	70.30	0.05	24.64
07/28/87	500	5.24	197.20	2.40	70.00	0.05	24.65
07/28/87	515	6.39	188.60	1.99	69.57	0.05	24.65
07/28/87	530	7.80	189.60	1.99	69.60	0.05	24.65
07/28/87	545	8.08	193.00	1.58	68.02	0.05	24.64
07/28/87	600	7.83	186.70	1.58	67.85	0.05	24.64
07/28/87	615	7.89	193.90	2.33	67.51	0.05	24.65
07/28/87	630	8.26	196.60	2.33	67.39	0.05	24.64
07/28/87	645	7.27	192.30	2.40	66.99	0.05	24.65
07/28/87	700	7.29	196.00	1.99	66.82	0.05	24.65
07/28/87	715	7.41	196.50	1.65	65.96	0.05	24.61
07/28/87	730	7.32	192.70	1.65	66.17	0.05	24.38
07/28/87	745	9.04	187.70	1.23	66.51	0.05	24.43
07/28/87	800	9.66	184.60	0.82	66.22	0.05	24.74
07/28/87	815	8.18	185.60	3.15	66.11	0.05	24.77
07/28/87	830	5.12	188.80	8.71	67.04	0.05	24.78
07/28/87	845	6.07	185.90	1.99	68.05	0.05	24.78
07/28/87	900	7.52	191.70	3.63	68.91	0.05	24.78
07/28/87	915	6.41	196.50	5.55	69.86	0.05	24.79
07/28/87	930	7.68	204.70	4.45	70.30	0.05	24.79
07/28/87	945	8.52	213.70	4.45	71.40	0.05	24.79
07/28/87	1000	8.91	220.40	4.04	72.50	0.05	24.80
07/28/87	1015	8.29	219.10	4.86	73.80	0.05	24.79
07/28/87	1030	6.44	222.00	4.86	75.20	0.05	24.69
07/28/87	1045	5.06	231.10	13.53	77.00	0.05	24.38
07/28/87	1100	3.82	245.10	13.87	78.50	0.05	24.37
07/28/87	1115	2.88	266.20	22.88	79.90	0.05	24.78
07/28/87	1130	1.74	77.60	38.96	82.30	0.05	23.82
07/28/87	1145	3.85	9.77	18.96	82.30	0.05	22.74
07/28/87	1200	3.33	6.29	54.33	82.50	0.05	21.55
07/28/87	1215	3.64	11.17	22.55	83.40	0.05	21.23
07/28/87	1230	3.26	334.50	41.34	84.00	0.05	21.46
07/28/87	1245	4.97	37.85	26.83	83.90	0.05	22.05
07/28/87	1300	8.67	50.96	10.42	84.30	0.05	21.34
07/28/87	1315	5.99	40.33	27.57	84.80	0.05	21.21
07/28/87	1330	5.91	78.30	16.27	84.60	0.05	21.00

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/28/87	1345	5.87	63.14	22.53	85.90	0.05	20.92
07/28/87	1400	4.35	24.23	39.41	86.10	0.05	20.89
07/28/87	1415	6.49	1.08	23.68	86.00	0.05	20.89
07/28/87	1430	4.30	74.80	31.09	87.70	0.05	20.82
07/28/87	1445	5.60	71.40	18.57	88.00	0.05	20.91
07/28/87	1500	5.32	28.62	46.81	88.10	0.05	20.86
07/28/87	1515	5.16	53.16	55.11	88.60	0.05	20.86
07/28/87	1530	6.11	29.42	11.16	89.00	0.05	20.99
07/28/87	1545	3.97	39.83	15.10	90.40	0.05	22.85
07/28/87	1600	7.64	338.30	21.35	89.80	0.05	24.75
07/28/87	1615	8.33	330.80	9.59	89.70	0.05	24.75
07/28/87	1630	7.37	335.00	29.51	89.80	0.05	24.75
07/28/87	1645	4.00	25.37	43.31	92.80	0.05	24.74
07/28/87	1700	3.65	73.00	59.02	92.20	0.05	24.74
07/28/87	1715	7.19	305.30	17.47	91.60	0.05	24.74
07/28/87	1730	6.56	297.10	17.07	91.30	0.05	24.74
07/28/87	1745	7.54	280.60	9.59	89.70	0.05	24.71
07/28/87	1800	7.78	289.10	7.28	89.80	0.05	23.85
07/28/87	1815	10.61	281.50	13.55	89.20	0.05	22.78
07/28/87	1830	21.13	263.10	3.75	87.00	0.05	22.89
07/28/87	1845	18.48	264.10	4.09	86.30	0.05	22.72
07/28/87	1900	16.26	265.90	5.25	85.70	0.05	22.20
07/28/87	1915	13.82	238.90	15.89	86.10	0.05	21.75
07/28/87	1930	16.66	172.60	4.43	83.10	0.05	22.51
07/28/87	1945	23.50	185.20	6.01	81.00	0.05	23.47
07/28/87	2000	21.30	165.40	5.60	79.40	0.05	23.59
07/28/87	2015	17.77	169.80	7.17	76.30	0.05	23.76
07/28/87	2030	11.29	157.70	7.93	74.80	0.05	23.89
07/28/87	2045	16.85	159.40	6.77	73.40	0.05	24.22
07/28/87	2100	9.49	155.10	7.11	71.90	0.06	24.82
07/28/87	2115	12.70	177.90	2.05	70.70	0.08	24.82
07/28/87	2130	11.63	149.60	3.22	71.90	0.09	24.80
07/28/87	2145	4.99	350.40	12.19	72.10	0.09	24.79
07/28/87	2200	2.93	340.10	14.24	78.80	0.09	24.77
07/28/87	2215	9.03	242.20	5.96	72.80	0.09	24.76
07/28/87	2230	10.55	247.80	3.22	71.70	0.09	24.76
07/28/87	2245	9.06	259.70	5.96	71.20	0.09	24.76
07/28/87	2300	7.94	273.80	7.12	71.90	0.09	24.75
07/28/87	2315	7.76	297.10	41.64	71.60	0.09	24.76
07/28/87	2330	8.41	349.40	5.14	72.80	0.09	24.77
07/28/87	2345	7.08	336.80	3.63	74.10	0.09	24.78
07/29/87	0	5.42	334.60	3.97	74.80	0.09	24.78
07/29/87	15	2.90	9.62	2.81	74.50	0.09	24.78
07/29/87	30	3.13	17.57	12.19	74.00	0.09	24.78
07/29/87	45	3.42	103.30	29.45	72.20	0.09	24.78
07/29/87	100	4.47	160.30	5.14	73.00	0.09	24.78

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/29/87	115	8.16	179.20	1.64	71.90	0.09	24.78
07/29/87	130	6.97	188.60	3.22	69.47	0.09	24.78
07/29/87	145	7.02	191.00	1.64	69.48	0.09	24.78
07/29/87	200	7.64	190.00	2.40	69.02	0.09	24.78
07/29/87	215	7.16	190.20	2.40	68.60	0.09	24.78
07/29/87	230	6.14	199.80	3.56	68.39	0.09	24.78
07/29/87	245	7.28	202.30	2.74	67.88	0.09	24.78
07/29/87	300	7.48	194.80	1.58	67.33	0.09	24.78
07/29/87	315	6.55	198.50	3.56	67.33	0.09	24.78
07/29/87	330	7.10	196.40	1.58	67.10	0.09	24.78
07/29/87	345	6.49	199.80	1.99	67.03	0.09	24.78
07/29/87	400	7.22	189.60	2.33	66.92	0.09	24.78
07/29/87	415	7.95	184.70	2.74	66.93	0.09	24.78
07/29/87	430	7.11	179.90	1.58	66.85	0.09	24.78
07/29/87	445	5.16	157.70	3.56	65.71	0.09	24.78
07/29/87	500	5.37	162.10	2.74	65.70	0.09	24.78
07/29/87	515	6.49	181.40	1.99	66.82	0.09	24.78
07/29/87	530	7.65	189.10	1.58	66.60	0.09	24.78
07/29/87	545	6.52	178.50	3.56	66.62	0.09	24.78
07/29/87	600	7.94	182.70	1.58	66.12	0.09	24.78
07/29/87	615	7.81	186.90	2.40	65.30	0.09	24.78
07/29/87	630	6.27	194.50	2.40	63.86	0.09	24.78
07/29/87	645	6.64	196.30	2.74	64.40	0.09	24.78
07/29/87	700	7.11	197.40	1.58	64.54	0.09	24.78
07/29/87	715	5.72	200.70	1.17	64.69	0.09	24.78
07/29/87	730	5.06	200.50	1.58	64.76	0.09	24.78
07/29/87	745	5.66	200.60	1.58	64.36	0.09	24.78
07/29/87	800	5.61	192.80	1.58	64.18	0.09	24.78
07/29/87	815	5.66	184.80	4.73	64.89	0.09	24.79
07/29/87	830	3.79	180.20	1.58	64.59	0.09	24.80
07/29/87	845	5.78	186.80	2.74	64.39	0.09	24.80
07/29/87	900	4.90	197.80	2.81	64.23	0.09	24.80
07/29/87	915	4.09	199.90	5.14	65.07	0.09	24.80
07/29/87	930	4.84	193.20	6.37	66.54	0.09	24.80
07/29/87	945	5.19	201.00	4.38	67.77	0.09	24.80
07/29/87	1000	5.06	203.50	7.53	68.22	0.09	24.80
07/29/87	1015	5.52	216.60	5.21	69.18	0.09	24.80
07/29/87	1030	5.30	234.10	7.94	71.40	0.09	24.59
07/29/87	1045	4.81	253.20	10.74	73.20	0.09	24.04
07/29/87	1100	3.85	258.30	14.63	74.60	0.09	24.73
07/29/87	1115	4.67	312.90	10.38	75.40	0.09	24.71
07/29/87	1130	3.35	310.20	17.41	76.40	0.09	24.70
07/29/87	1145	2.11	299.30	57.80	78.50	0.09	24.67
07/29/87	1200	2.18	60.95	61.72	80.30	0.09	24.64
07/29/87	1215	2.97	89.60	18.20	80.60	0.09	24.60
07/29/87	1230	3.21	71.40	40.20	81.40	0.09	24.60

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/29/87	1245	2.74	30.13	38.62	82.50	0.09	24.60
07/29/87	1300	3.30	62.67	28.40	83.30	0.09	24.59
07/29/87	1315	3.25	29.21	49.15	83.80	0.09	24.57
07/29/87	1330	4.36	48.12	28.38	84.20	0.09	24.56
07/29/87	1345	3.49	131.00	55.46	84.60	0.09	24.56
07/29/87	1400	4.16	52.06	24.49	85.60	0.09	24.55
07/29/87	1415	6.49	151.10	21.77	85.50	0.09	24.54
07/29/87	1430	5.59	97.80	27.21	86.40	0.09	24.53
07/29/87	1445	5.64	79.50	26.80	86.60	0.09	24.53
07/29/87	1500	7.81	84.30	21.36	87.00	0.09	24.53
07/29/87	1515	7.28	55.36	38.65	87.50	0.09	24.54
07/29/87	1530	7.31	70.30	18.58	87.30	0.09	24.52
07/29/87	1545	6.59	76.10	48.38	88.30	0.09	24.51
07/29/87	1600	6.37	82.00	40.15	89.10	0.09	24.50
07/29/87	1615	6.70	83.20	8.78	89.80	0.09	24.49
07/29/87	1630	7.04	62.82	11.16	90.10	0.09	24.49
07/29/87	1645	6.96	46.22	33.15	90.30	0.09	24.49
07/29/87	1700	4.85	41.79	25.66	92.10	0.09	24.49
07/29/87	1715	8.94	52.26	21.03	91.90	0.09	24.48
07/29/87	1730	7.06	49.26	15.52	92.70	0.09	24.48
07/29/87	1745	9.35	30.37	21.03	92.60	0.09	24.49
07/29/87	1800	9.06	33.69	16.34	91.90	0.09	24.51
07/29/87	1815	8.67	43.08	17.49	93.40	0.09	24.50
07/29/87	1830	7.47	20.22	10.82	93.20	0.09	24.50
07/29/87	1845	7.72	57.35	11.23	93.30	0.09	24.48
07/29/87	1900	8.02	41.38	18.24	92.70	0.09	24.48
07/29/87	1915	9.78	298.60	33.92	89.20	0.09	24.60
07/29/87	1930	17.19	269.90	5.25	80.40	0.11	24.72
07/29/87	1945	18.47	294.60	2.46	72.60	0.13	24.72
07/29/87	2000	14.41	305.50	4.03	73.80	0.14	24.72
07/29/87	2015	9.57	304.90	23.24	74.60	0.15	24.72
07/29/87	2030	11.48	296.40	2.73	73.40	0.19	24.72
07/29/87	2045	10.81	269.70	3.62	72.80	0.19	24.72
07/29/87	2100	5.79	259.00	28.32	74.10	0.22	24.74
07/29/87	2115	7.66	288.00	8.35	72.50	0.31	24.75
07/29/87	2130	5.45	299.50	6.36	72.10	0.31	24.75
07/29/87	2145	10.17	311.90	7.12	71.20	0.32	24.75
07/29/87	2200	9.36	322.60	5.96	70.70	0.32	24.75
07/29/87	2215	8.34	350.00	5.13	70.90	0.32	24.75
07/29/87	2230	7.63	337.50	18.90	71.30	0.32	24.75
07/29/87	2245	4.14	248.30	48.62	72.30	0.32	24.75
07/29/87	2300	3.29	171.80	21.23	72.50	0.32	24.75
07/29/87	2315	5.33	242.80	16.58	72.90	0.32	24.75
07/29/87	2330	6.05	276.60	7.12	74.10	0.32	24.76
07/29/87	2345	5.67	267.90	7.12	72.60	0.32	24.78
07/30/87	0	6.25	286.40	3.22	72.90	0.32	24.78

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/30/87	15	8.45	291.20	3.97	72.40	0.32	24.79
07/30/87	30	6.75	301.60	4.38	71.60	0.32	24.79
07/30/87	45	7.05	311.60	4.38	71.30	0.32	24.79
07/30/87	100	7.04	308.40	4.73	70.40	0.32	24.79
07/30/87	115	6.24	307.10	5.55	70.90	0.32	24.79
07/30/87	130	5.17	337.50	4.38	70.90	0.32	24.79
07/30/87	145	3.30	343.60	4.38	70.40	0.32	24.79
07/30/87	200	3.27	332.50	5.89	70.20	0.32	24.79
07/30/87	215	2.99	257.60	5.55	70.30	0.32	24.79
07/30/87	230	2.93	213.40	3.97	70.50	0.32	24.78
07/30/87	245	6.44	204.80	3.15	70.30	0.32	24.78
07/30/87	300	5.55	209.00	1.17	70.90	0.32	24.78
07/30/87	315	6.40	202.30	3.56	71.50	0.32	24.78
07/30/87	330	7.65	197.10	1.17	69.32	0.32	24.78
07/30/87	345	8.42	193.50	1.99	68.23	0.32	24.78
07/30/87	400	8.09	194.40	2.40	67.41	0.32	24.78
07/30/87	415	8.60	196.50	2.40	67.69	0.32	24.78
07/30/87	430	6.58	198.90	1.65	67.04	0.32	24.78
07/30/87	445	8.69	201.10	2.06	66.84	0.32	24.78
07/30/87	500	9.47	201.00	2.81	66.80	0.32	24.78
07/30/87	515	8.77	193.20	2.06	66.46	0.32	24.78
07/30/87	530	9.25	191.90	2.40	66.30	0.32	24.78
07/30/87	545	9.80	193.50	2.40	66.34	0.32	24.78
07/30/87	600	10.19	192.10	2.81	66.28	0.32	24.78
07/30/87	615	10.05	196.10	2.40	66.12	0.32	24.78
07/30/87	630	8.56	198.70	3.56	65.37	0.32	24.78
07/30/87	645	6.24	188.70	3.56	64.91	0.32	24.78
07/30/87	700	9.62	184.10	1.23	65.48	0.32	24.78
07/30/87	715	9.99	190.10	1.99	65.48	0.32	24.78
07/30/87	730	8.90	185.00	1.58	65.29	0.32	24.77
07/30/87	745	9.05	183.00	1.99	65.31	0.32	24.77
07/30/87	800	9.62	179.10	1.17	65.49	0.32	24.77
07/30/87	815	10.15	183.40	4.32	65.51	0.32	24.77
07/30/87	830	9.24	189.00	1.58	65.71	0.32	24.77
07/30/87	845	8.42	202.10	1.58	66.02	0.32	24.78
07/30/87	900	8.00	202.40	2.81	66.67	0.32	24.78
07/30/87	915	8.27	195.90	2.81	67.25	0.32	24.79
07/30/87	930	7.48	196.10	3.63	68.17	0.32	24.80
07/30/87	945	6.97	205.30	4.45	69.71	0.32	24.80
07/30/87	1000	6.06	206.40	4.45	71.10	0.32	24.78
07/30/87	1015	5.45	201.60	6.02	72.20	0.32	24.75
07/30/87	1030	5.24	215.70	8.41	73.30	0.32	24.55
07/30/87	1045	5.47	227.70	8.75	74.10	0.32	22.97
07/30/87	1100	4.30	236.40	9.50	75.50	0.32	23.10
07/30/87	1115	4.53	241.90	16.60	76.10	0.32	24.76
07/30/87	1130	4.78	263.30	7.58	77.00	0.32	24.82

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/30/87	1145	3.97	278.10	16.65	78.30	0.32	24.05
07/30/87	1200	5.00	311.00	22.09	78.80	0.32	22.62
07/30/87	1215	4.06	303.50	11.93	80.20	0.32	22.30
07/30/87	1230	3.70	347.20	35.02	81.50	0.32	22.86
07/30/87	1245	3.71	325.50	56.26	82.70	0.32	22.96
07/30/87	1300	2.94	311.00	46.78	83.20	0.32	22.47
07/30/87	1315	5.38	24.41	33.49	83.30	0.32	21.69
07/30/87	1330	6.05	42.73	29.95	84.20	0.32	21.32
07/30/87	1345	5.77	41.80	20.96	84.80	0.32	21.12
07/30/87	1400	6.28	32.31	27.97	85.40	0.32	21.03
07/30/87	1415	6.99	57.37	17.42	85.40	0.32	21.00
07/30/87	1430	6.93	57.70	20.56	86.20	0.32	20.96
07/30/87	1445	6.54	34.86	29.54	86.70	0.32	20.96
07/30/87	1500	5.04	55.23	39.00	87.50	0.32	20.95
07/30/87	1515	5.04	41.97	19.39	88.40	0.33	20.99
07/30/87	1530	6.95	53.90	13.95	88.90	0.33	21.06
07/30/87	1545	3.93	38.72	21.50	89.30	0.32	21.30
07/30/87	1600	5.95	92.60	11.23	89.60	0.33	22.10
07/30/87	1615	4.61	166.60	14.76	90.50	0.33	21.76
07/30/87	1630	3.92	155.90	48.85	90.90	0.33	22.21
07/30/87	1645	4.90	41.25	21.43	91.20	0.33	21.92
07/30/87	1700	5.05	22.17	49.19	91.20	0.33	21.08
07/30/87	1715	5.06	49.34	63.82	91.80	0.33	20.87
07/30/87	1730	4.46	53.66	33.61	92.90	0.33	20.88
07/30/87	1745	5.74	93.50	26.06	92.30	0.33	20.87
07/30/87	1800	6.92	42.33	36.67	92.50	0.33	21.13
07/30/87	1815	9.45	46.05	17.08	92.70	0.32	21.30
07/30/87	1830	7.75	39.03	13.14	91.80	0.32	21.86
07/30/87	1845	6.71	17.23	24.51	92.70	0.32	21.21
07/30/87	1900	5.83	46.89	38.67	93.30	0.32	20.82
07/30/87	1915	8.33	55.72	8.44	92.40	0.32	20.74
07/30/87	1930	6.91	63.84	5.31	91.20	0.32	22.16
07/30/87	1945	4.78	28.07	4.50	90.00	0.32	22.43
07/30/87	2000	4.25	350.90	6.41	89.20	0.32	22.42
07/30/87	2015	6.05	343.50	2.87	88.10	0.32	22.69
07/30/87	2030	7.41	334.20	3.27	87.50	0.32	22.72
07/30/87	2045	5.75	344.80	4.85	87.20	0.32	22.20
07/30/87	2100	5.31	347.20	7.58	86.70	0.32	22.05
07/30/87	2115	4.45	358.20	4.03	85.30	0.32	22.89
07/30/87	2130	2.78	4.03	1.23	84.80	0.32	23.11
07/30/87	2145	3.24	339.80	11.07	85.20	0.32	23.21
07/30/87	2200	3.67	289.40	28.29	83.90	0.32	23.14
07/30/87	2215	5.93	247.50	3.21	81.60	0.32	23.21
07/30/87	2230	4.90	247.80	2.46	80.60	0.32	23.29
07/30/87	2245	4.25	230.90	3.28	79.80	0.32	23.18
07/30/87	2300	4.62	207.50	5.88	77.80	0.32	23.20

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/30/87	2315	5.58	201.10	3.21	78.90	0.32	23.07
07/30/87	2330	10.86	196.20	3.62	78.60	0.32	22.69
07/30/87	2345	9.48	198.10	3.63	78.20	0.32	22.27
07/31/87	0	7.36	218.00	1.64	78.60	0.32	21.84
07/31/87	15	10.08	227.90	3.63	77.70	0.32	21.59
07/31/87	30	14.66	264.60	3.63	77.70	0.32	21.43
07/31/87	45	12.39	293.60	2.81	75.40	0.32	21.77
07/31/87	100	10.80	321.80	5.54	74.80	0.32	22.99
07/31/87	115	11.35	331.80	4.04	76.90	0.32	22.70
07/31/87	130	9.21	341.40	3.22	78.30	0.32	22.19
07/31/87	145	8.39	344.10	5.95	77.80	0.32	21.88
07/31/87	200	9.17	349.10	5.20	76.10	0.32	21.70
07/31/87	215	9.48	322.60	5.96	74.10	0.32	21.79
07/31/87	230	7.75	307.50	4.04	72.90	0.32	23.71
07/31/87	245	6.44	293.40	4.38	71.90	0.32	24.80
07/31/87	300	4.99	276.90	4.38	72.20	0.32	24.80
07/31/87	315	3.24	236.50	6.71	71.40	0.32	24.80
07/31/87	330	4.33	211.00	4.38	71.90	0.32	24.80
07/31/87	345	3.75	208.90	3.22	71.90	0.32	24.80
07/31/87	400	5.97	196.60	1.23	71.80	0.32	24.81
07/31/87	415	7.54	182.40	7.12	70.90	0.32	24.80
07/31/87	430	5.07	132.70	3.63	68.25	0.32	24.80
07/31/87	445	6.87	148.80	4.38	68.56	0.32	24.76
07/31/87	500	7.19	168.30	4.39	69.11	0.32	24.81
07/31/87	515	5.25	186.20	1.65	67.28	0.32	24.81
07/31/87	530	5.74	204.30	62.37	67.27	0.32	24.81
07/31/87	545	3.43	342.00	25.50	65.07	0.32	24.81
07/31/87	600	3.72	91.30	10.63	63.83	0.32	24.82
07/31/87	615	4.79	142.80	3.56	66.05	0.32	24.82
07/31/87	630	5.93	170.10	5.90	66.29	0.32	24.82
07/31/87	645	4.42	154.50	15.29	64.92	0.32	24.82
07/31/87	700	4.34	173.10	6.72	65.02	0.32	24.83
07/31/87	715	4.60	180.00	12.62	64.90	0.32	24.83
07/31/87	730	3.93	185.40	3.57	63.58	0.32	24.83
07/31/87	745	6.47	191.80	1.99	64.65	0.32	24.83
07/31/87	800	7.85	193.00	1.17	65.73	0.32	24.83
07/31/87	815	7.76	193.60	1.99	66.08	0.32	24.83
07/31/87	830	9.10	202.10	1.99	66.20	0.32	24.83
07/31/87	845	9.98	200.30	2.40	66.44	0.32	24.84
07/31/87	900	9.71	204.90	2.81	67.65	0.32	24.85
07/31/87	915	10.04	206.40	3.22	68.99	0.32	24.85
07/31/87	930	10.11	210.60	2.81	69.90	0.32	24.84
07/31/87	945	10.34	215.00	3.22	70.80	0.32	24.84
07/31/87	1000	9.21	218.30	2.81	72.30	0.32	24.84
07/31/87	1015	7.58	211.80	4.86	74.10	0.32	24.08
07/31/87	1030	7.57	217.20	6.84	75.60	0.32	23.35

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/31/87	1045	8.06	213.90	4.79	76.10	0.32	23.16
07/31/87	1100	7.53	213.80	4.78	77.50	0.32	23.19
07/31/87	1115	7.47	207.50	6.35	78.90	0.32	23.23
07/31/87	1130	6.20	214.50	6.35	80.50	0.32	23.32
07/31/87	1145	6.96	220.00	8.73	82.00	0.32	23.12
07/31/87	1200	6.32	208.00	15.08	83.50	0.32	22.99
07/31/87	1215	5.26	182.20	61.36	84.50	0.32	23.16
07/31/87	1230	5.42	177.70	11.52	84.90	0.32	23.18
07/31/87	1245	5.46	113.40	13.90	85.80	0.32	22.59
07/31/87	1300	5.75	82.50	37.39	85.90	0.32	21.63
07/31/87	1315	3.85	47.56	42.49	86.50	0.32	21.11
07/31/87	1330	2.64	0.36	22.52	87.60	0.32	22.93
07/31/87	1345	4.93	67.88	44.49	88.20	0.32	24.83
07/31/87	1400	5.03	77.90	35.84	88.20	0.32	24.82
07/31/87	1415	4.29	110.40	30.00	88.70	0.32	24.81
07/31/87	1430	6.18	126.80	18.63	88.70	0.32	24.82
07/31/87	1445	6.31	109.10	17.48	89.10	0.32	24.81
07/31/87	1500	4.44	112.10	38.70	89.50	0.32	24.81
07/31/87	1515	4.88	68.22	31.15	90.80	0.32	24.80
07/31/87	1530	5.67	136.60	54.40	90.70	0.32	24.80
07/31/87	1545	5.61	85.00	28.43	91.50	0.32	24.79
07/31/87	1600	8.55	50.10	12.37	91.30	0.32	24.79
07/31/87	1615	10.85	39.93	15.91	90.20	0.32	24.78
07/31/87	1630	10.06	33.86	13.20	90.60	0.32	24.77
07/31/87	1645	9.25	18.15	13.95	91.40	0.33	24.77
07/31/87	1700	10.28	37.34	22.18	91.60	0.33	24.76
07/31/87	1715	10.30	4.09	11.97	90.90	0.33	24.76
07/31/87	1730	8.98	342.40	5.65	90.70	0.32	24.63
07/31/87	1745	13.23	322.90	5.31	88.90	0.32	24.31
07/31/87	1800	15.99	317.80	7.29	87.20	0.32	22.21
07/31/87	1815	11.94	329.70	17.09	88.90	0.32	21.17
07/31/87	1830	9.89	348.70	11.17	88.60	0.32	21.27
07/31/87	1845	12.31	347.80	10.01	89.10	0.32	21.80
07/31/87	1900	13.77	346.30	7.22	89.20	0.32	21.00
07/31/87	1915	14.34	340.00	10.42	89.60	0.32	20.66
07/31/87	1930	14.65	334.30	6.41	87.40	0.32	20.90
07/31/87	1945	14.55	319.20	4.43	85.40	0.32	22.73
07/31/87	2000	12.48	335.10	5.18	83.60	0.32	23.34
07/31/87	2015	14.20	315.90	4.43	81.20	0.32	22.69
07/31/87	2030	12.86	311.80	4.78	79.00	0.32	22.64
07/31/87	2045	16.78	320.40	8.33	77.30	0.32	22.83
07/31/87	2100	18.34	329.90	5.19	75.40	0.32	23.04
07/31/87	2115	15.54	306.70	4.37	74.90	0.32	22.49
07/31/87	2130	14.60	334.10	9.02	70.80	0.32	23.33
07/31/87	2145	13.74	333.20	7.18	69.90	0.32	23.40
07/31/87	2200	12.37	291.40	5.95	69.96	0.32	22.85

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/31/87	2215	12.80	303.50	2.81	69.52	0.32	22.45
07/31/87	2230	12.66	300.30	3.22	70.00	0.32	22.09
07/31/87	2245	13.55	304.30	7.12	70.50	0.32	21.76
07/31/87	2300	13.08	313.40	4.38	70.30	0.32	21.56
07/31/87	2315	10.50	326.30	6.37	69.92	0.32	21.42
07/31/87	2330	7.28	347.20	9.52	70.20	0.32	21.39
07/31/87	2345	4.42	352.10	5.96	69.65	0.32	21.25
08/01/87	0	4.43	264.00	5.55	69.84	0.32	21.18
08/01/87	15	7.51	204.40	5.55	69.13	0.33	21.84
08/01/87	30	4.54	143.20	29.86	68.01	0.35	22.70
08/01/87	45	3.05	79.30	15.75	67.16	0.35	22.67
08/01/87	100	4.14	103.40	6.71	67.27	0.35	22.33
08/01/87	115	5.75	168.20	3.15	67.09	0.35	22.09
08/01/87	130	8.18	166.60	5.89	67.77	0.35	21.86
08/01/87	145	3.72	156.30	9.46	67.65	0.35	21.74
08/01/87	200	2.77	231.20	4.38	68.36	0.36	21.97
08/01/87	215	2.63	246.90	9.04	67.42	0.36	22.04
08/01/87	230	3.35	323.20	30.63	66.85	0.36	21.91
08/01/87	245	5.25	34.45	3.98	64.67	0.36	23.80
08/01/87	300	4.43	43.43	8.29	64.26	0.36	24.78
08/01/87	315	2.18	237.00	5.55	66.66	0.36	22.68
08/01/87	330	2.70	137.30	7.13	65.84	0.36	21.84
08/01/87	345	6.37	183.60	1.65	67.73	0.36	21.85
08/01/87	400	7.28	181.50	2.81	68.04	0.36	21.76
08/01/87	415	5.60	197.30	1.99	66.33	0.36	21.58
08/01/87	430	5.39	200.10	2.40	66.09	0.36	21.55
08/01/87	445	6.61	204.60	1.58	66.69	0.36	21.52
08/01/87	500	7.04	209.60	[illegible].40	66.89	0.36	21.52
08/01/87	515	8.01	212.30	3.15	66.45	0.36	21.68
08/01/87	530	6.41	212.30	2.74	65.53	0.36	21.75
08/01/87	545	5.22	198.20	1.99	65.06	0.36	21.52
08/01/87	600	6.10	190.80	1.23	65.31	0.36	21.64
08/01/87	615	7.40	185.10	1.99	65.14	0.36	21.60
08/01/87	630	6.52	185.80	1.99	65.13	0.36	21.50
08/01/87	645	7.64	190.40	2.40	65.47	0.36	21.53
08/01/87	700	6.69	189.20	2.74	65.04	0.36	21.54
08/01/87	715	7.80	193.00	2.74	65.08	0.36	21.46
08/01/87	730	7.40	191.60	4.32	65.17	0.36	21.48
08/01/87	745	8.53	186.10	1.58	64.93	0.36	21.49
08/01/87	800	8.20	193.90	1.99	64.89	0.36	21.88
08/01/87	815	9.74	202.70	1.58	64.96	0.36	21.97
08/01/87	830	10.76	218.30	2.40	65.48	0.36	21.98
08/01/87	845	9.07	214.50	2.40	64.96	0.36	21.91
08/01/87	900	8.02	213.50	2.74	65.11	0.36	22.10
08/01/87	915	8.11	201.80	3.15	66.13	0.36	23.42
08/01/87	930	9.05	203.30	3.22	67.37	0.36	22.07

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/01/87	945	8.01	212.90	2.81	68.21	0.36	21.99
08/01/87	1000	8.02	213.30	3.63	68.27	0.36	21.50
08/01/87	1015	7.18	206.70	3.63	69.24	0.36	21.35
08/01/87	1030	8.13	209.30	2.81	69.92	0.36	21.26
08/01/87	1045	8.18	213.00	3.63	70.80	0.36	21.23
08/01/87	1100	8.31	216.80	5.20	73.20	0.36	22.65
08/01/87	1115	8.27	220.20	8.34	75.30	0.36	24.36
08/01/87	1130	7.06	223.10	11.48	76.80	0.36	24.13
08/01/87	1145	6.07	225.50	7.99	77.50	0.36	22.45
08/01/87	1200	5.40	228.80	14.69	78.40	0.36	21.97
08/01/87	1215	5.93	245.60	9.56	80.20	0.36	22.70
08/01/87	1230	5.29	246.20	11.47	81.90	0.36	22.93
08/01/87	1245	4.45	221.70	38.95	82.60	0.36	22.62
08/01/87	1300	4.81	227.60	22.50	83.50	0.36	22.88
08/01/87	1315	5.34	257.70	25.21	83.90	0.36	22.29
08/01/87	1330	5.20	293.20	58.23	84.60	0.36	21.89
08/01/87	1345	8.44	39.21	27.98	84.70	0.36	21.58
08/01/87	1400	4.77	1.28	61.35	85.30	0.36	21.21
08/01/87	1415	5.81	283.70	11.57	85.20	0.36	21.16
08/01/87	1430	5.21	331.50	22.59	85.70	0.36	21.27
08/01/87	1445	6.11	328.60	17.48	85.80	0.36	21.26
08/01/87	1500	6.92	329.50	10.81	86.80	0.36	22.29
08/01/87	1515	4.71	353.30	62.56	87.00	0.36	21.23
08/01/87	1530	5.42	326.30	21.42	86.40	0.36	20.86
08/01/87	1545	7.11	335.90	23.74	86.10	0.36	21.14
08/01/87	1600	4.74	352.00	38.65	85.90	0.36	22.24
08/01/87	1615	6.77	345.50	13.54	87.60	0.36	21.33
08/01/87	1630	6.23	354.40	23.75	87.50	0.36	21.39
08/01/87	1645	6.41	5.92	17.83	88.60	0.36	20.97
08/01/87	1700	9.44	329.00	18.58	88.00	0.36	20.87
08/01/87	1715	5.74	15.65	52.34	88.90	0.36	20.68
08/01/87	1730	7.84	331.00	21.37	88.50	0.36	20.60
08/01/87	1745	7.32	352.30	25.66	88.80	0.36	20.51
08/01/87	1800	6.59	306.00	20.96	89.40	0.36	20.50
08/01/87	1815	4.95	316.80	32.74	89.50	0.36	20.45
08/01/87	1830	6.93	33.11	19.40	89.90	0.36	20.42
08/01/87	1845	5.52	57.32	36.28	89.60	0.36	20.45
08/01/87	1900	6.40	23.95	21.38	89.60	0.36	20.42
08/01/87	1915	3.39	284.70	39.43	89.50	0.36	20.45
08/01/87	1930	4.64	48.81	12.74	89.50	0.36	20.42
08/01/87	945	4.18	34.05	19.83	90.20	0.36	20.44
08/01/87	2000	2.35	80.70	36.25	90.50	0.36	20.20
08/01/87	2015	2.25	98.10	16.70	88.50	0.36	20.32
08/01/87	2030	2.49	320.20	4.43	87.30	0.36	21.97
08/01/87	2045	2.58	274.80	19.37	89.20	0.36	21.28
08/01/87	2100	4.71	242.50	15.08	88.90	0.36	20.67

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/01/87	2115	9.06	205.70	4.84	86.70	0.36	20.49
08/01/87	2130	12.15	209.70	4.03	84.20	0.36	22.67
08/01/87	2145	10.14	201.90	3.21	83.30	0.36	22.71
08/01/87	2200	10.43	196.20	3.21	82.10	0.36	22.84
08/01/87	2215	10.84	201.10	3.62	81.00	0.36	22.95
08/01/87	2230	12.68	195.90	2.80	79.70	0.36	22.94
08/01/87	2245	15.03	193.60	3.21	79.20	0.36	22.83
08/01/87	2300	15.39	195.90	2.80	79.10	0.36	22.34
08/01/87	2315	11.08	196.80	3.21	78.10	0.36	22.59
08/01/87	2330	11.44	201.70	2.74	77.50	0.36	22.73
08/01/87	2345	9.71	202.00	3.15	76.70	0.36	22.74
08/02/87	0	9.40	191.80	1.98	75.80	0.36	22.98
08/02/87	15	11.69	187.00	3.21	76.00	0.36	22.65
08/02/87	30	11.47	188.70	2.05	75.70	0.36	22.21
08/02/87	45	11.88	185.30	2.81	75.10	0.36	22.20
08/02/87	100	11.46	188.00	2.46	74.90	0.36	22.27
08/02/87	115	10.99	188.90	2.81	74.60	0.36	22.27
08/02/87	130	11.19	196.70	2.87	74.50	0.36	22.20
08/02/87	145	11.60	197.90	2.05	74.30	0.36	22.00
08/02/87	200	10.84	198.30	2.46	73.90	0.36	22.02
08/02/87	215	9.95	197.40	3.22	73.00	0.36	22.35
08/02/87	230	8.90	182.00	2.81	72.10	0.36	22.64
08/02/87	245	8.30	192.40	2.05	71.40	0.36	22.83
08/02/87	300	10.17	198.00	2.05	71.00	0.36	22.75
08/02/87	315	11.14	194.70	2.81	71.10	0.36	22.23
08/02/87	330	9.90	197.60	2.46	70.80	0.36	21.84
08/02/87	345	8.59	196.40	2.81	70.40	0.36	21.97
08/02/87	400	8.20	196.20	2.40	70.00	0.36	22.34
08/02/87	415	9.51	191.90	2.40	69.91	0.36	22.23
08/02/87	430	8.63	192.70	2.40	69.59	0.36	21.87
08/02/87	445	6.80	189.40	3.63	68.46	0.36	22.23
08/02/87	500	5.47	183.30	9.52	67.43	0.36	22.57
08/02/87	515	6.49	196.20	2.40	67.40	0.36	22.56
08/02/87	530	5.82	195.00	5.89	66.74	0.36	22.41
08/02/87	545	8.03	176.20	3.98	67.54	0.36	22.28
08/02/87	600	6.28	185.80	4.73	66.85	0.36	22.18
08/02/87	615	7.76	199.90	2.74	66.72	0.36	22.24
08/02/87	630	7.74	176.00	5.89	66.47	0.36	21.92
08/02/87	645	7.96	181.50	2.40	66.95	0.36	21.88
08/02/87	700	7.68	197.60	4.39	66.99	0.36	21.83
08/02/87	715	6.28	206.30	6.72	66.62	0.36	21.85
08/02/87	730	4.77	208.10	8.29	65.75	0.36	21.86
08/02/87	745	5.66	209.90	2.74	65.91	0.36	21.64
08/02/87	800	6.76	189.40	2.40	65.73	0.36	21.85
08/02/87	815	7.71	181.30	7.47	66.60	0.36	21.80
08/02/87	830	7.49	198.20	1.99	66.13	0.36	21.60

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/02/87	845	6.52	194.90	1.99	65.53	0.36	21.86
08/02/87	900	6.26	215.60	2.74	66.13	0.36	22.19
08/02/87	915	5.19	214.00	5.55	67.18	0.36	22.47
08/02/87	930	5.82	214.80	5.55	68.67	0.36	22.53
08/02/87	945	7.26	196.80	6.78	69.89	0.36	22.60
08/02/87	1000	7.28	211.20	5.95	71.50	0.36	22.77
08/02/87	1015	7.55	212.00	8.76	72.60	0.36	22.94
08/02/87	1030	7.22	207.60	9.50	73.50	0.36	23.01
08/02/87	1045	7.03	231.90	7.59	74.50	0.36	23.08
08/02/87	1100	5.61	253.80	12.23	75.60	0.36	23.31
08/02/87	1115	4.07	258.50	20.55	76.90	0.36	23.39
08/02/87	1130	3.08	274.00	20.47	78.80	0.36	23.40
08/02/87	1145	2.86	338.90	22.51	80.00	0.36	23.00
08/02/87	1200	3.58	355.60	40.49	81.30	0.36	22.44
08/02/87	1215	2.57	314.00	40.54	83.20	0.36	22.59
08/02/87	1230	2.77	245.70	13.96	83.50	0.36	23.29
08/02/87	1245	3.73	202.30	41.38	84.40	0.36	22.26
08/02/87	1300	5.15	164.40	44.51	84.70	0.36	21.47
08/02/87	1315	4.69	181.90	25.65	85.70	0.36	21.11
08/02/87	1330	4.29	250.60	21.02	86.60	0.36	21.11
08/02/87	1345	3.95	253.30	15.92	87.30	0.36	21.69
08/02/87	1400	4.12	248.50	32.77	88.00	0.36	22.33
08/02/87	1415	5.05	169.60	26.10	88.40	0.36	24.61
08/02/87	1430	5.21	194.20	39.02	89.10	0.36	24.63
08/02/87	1445	6.28	81.40	37.87	89.70	0.36	24.62
08/02/87	1500	4.30	42.56	38.27	91.00	0.36	24.62
08/02/87	1515	3.86	221.60	10.47	90.90	0.36	24.62
08/02/87	1530	4.65	279.70	61.38	91.60	0.36	24.70
08/02/87	1545	3.79	181.50	67.70	92.30	0.36	24.77
08/02/87	1600	3.95	80.30	46.89	92.40	0.36	24.78
08/02/87	1615	5.65	123.10	49.21	91.50	0.36	24.77
08/02/87	1630	4.59	120.10	17.47	90.90	0.36	24.76
08/02/87	1645	5.58	52.84	18.29	93.50	0.36	24.76
08/02/87	1700	6.72	50.17	34.68	91.40	0.36	24.76
08/02/87	1715	4.43	313.50	35.50	92.30	0.36	24.76
08/02/87	1730	3.63	346.30	24.49	90.70	0.36	24.75
08/02/87	1745	2.32	156.20	24.84	91.30	0.36	24.73
08/02/87	1800	4.85	274.80	22.53	90.40	0.36	24.62
08/02/87	1815	4.76	278.90	17.09	91.80	0.36	23.52
08/02/87	1830	5.77	294.30	32.40	93.10	0.36	22.04
08/02/87	1845	4.42	135.80	26.41	93.00	0.36	21.89
08/02/87	1900	6.26	145.90	16.27	91.60	0.36	21.33
08/02/87	1915	9.84	181.60	8.78	90.50	0.36	22.18
08/02/87	1930	9.35	192.50	6.88	91.30	0.36	21.75
08/02/87	1945	13.88	211.30	6.00	89.50	0.36	20.77
08/02/87	2000	16.82	214.80	3.27	87.10	0.36	22.46

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/02/87	2015	18.90	209.10	3.27	85.70	0.36	23.43
08/02/87	2030	18.27	213.60	3.62	85.20	0.36	22.37
08/02/87	2045	23.52	203.90	3.27	84.40	0.36	21.41
08/02/87	2100	23.05	202.90	3.62	82.40	0.36	22.62
08/02/87	2115	20.01	206.00	3.21	81.80	0.36	22.61
08/02/87	2130	18.99	202.90	4.03	81.80	0.36	21.97
08/02/87	2145	18.12	195.50	3.21	81.20	0.36	21.47
08/02/87	2200	17.51	190.00	3.21	80.70	0.36	23.23
08/02/87	2215	15.98	187.00	2.80	80.70	0.36	24.75
08/02/87	2230	15.99	188.00	3.96	81.00	0.36	24.75
08/02/87	2245	16.33	187.00	3.96	80.50	0.36	24.75
08/02/87	2300	15.41	184.50	3.62	79.60	0.36	24.76
08/02/87	2315	13.04	188.60	3.21	78.50	0.36	24.75
08/02/87	2330	16.43	181.10	4.03	77.70	0.36	24.76
08/02/87	2345	15.55	181.30	3.56	76.80	0.36	24.77
08/03/87	0	16.73	182.30	3.21	75.90	0.36	24.77
08/03/87	15	14.09	183.00	2.74	75.00	0.36	24.77
08/03/87	30	11.59	173.00	3.63	74.20	0.36	24.77
08/03/87	45	9.85	177.00	4.04	73.80	0.36	24.21
08/03/87	100	9.36	176.80	4.04	73.50	0.36	22.41
08/03/87	115	6.18	181.80	4.45	72.50	0.36	22.65
08/03/87	130	6.01	182.40	7.19	72.00	0.36	22.68
08/03/87	145	7.70	173.30	3.22	71.90	0.36	22.33
08/03/87	200	6.47	191.30	2.46	71.30	0.36	21.95
08/03/87	215	7.19	200.00	2.46	71.50	0.36	21.65
08/03/87	230	7.36	217.10	8.35	71.30	0.36	21.35
08/03/87	245	7.76	239.80	4.04	70.70	0.36	21.26
08/03/87	300	7.39	219.00	2.81	71.10	0.36	21.10
08/03/87	315	6.70	226.50	4.04	70.90	0.36	20.98
08/03/87	330	6.42	236.00	7.53	71.00	0.36	21.05
08/03/87	345	6.87	202.90	2.05	71.20	0.36	21.23
08/03/87	400	6.63	197.10	4.38	72.30	0.36	21.13
08/03/87	415	6.25	236.50	4.79	73.20	0.36	20.82
08/03/87	430	5.94	204.90	6.37	72.60	0.36	20.69
08/03/87	445	5.28	207.90	13.42	72.80	0.36	20.61
08/03/87	500	4.71	213.00	3.22	73.40	0.36	20.56
08/03/87	515	4.34	213.40	5.55	73.40	0.36	20.50
08/03/87	530	2.25	184.20	13.83	72.40	0.36	20.47
08/03/87	545	5.65	114.50	10.34	71.10	0.36	20.60
08/03/87	600	2.73	140.20	36.15	71.00	0.36	21.59
08/03/87	615	3.20	195.00	7.53	71.90	0.36	22.13
08/03/87	630	4.53	179.00	3.22	72.60	0.36	21.84
08/03/87	645	6.79	154.40	7.53	73.30	0.36	21.42
08/03/87	700	4.86	154.20	33.36	70.20	0.36	21.08
08/03/87	715	4.02	250.50	9.04	70.00	0.36	20.97
08/03/87	730	2.99	233.40	12.60	70.60	0.36	21.46

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/03/87	745	4.00	312.80	21.23	70.70	0.36	21.84
08/03/87	800	2.53	36.09	39.25	69.27	0.36	22.18
08/03/87	815	2.98	30.40	7.12	69.10	0.36	22.36
08/03/87	830	2.45	20.53	14.59	69.35	0.36	22.01
08/03/87	845	2.85	357.50	7.54	71.50	0.36	21.58
08/03/87	900	4.18	340.50	4.73	69.92	0.36	21.27
08/03/87	915	4.38	333.80	9.11	69.56	0.36	21.40
08/03/87	930	7.50	334.60	4.79	71.00	0.36	22.23
08/03/87	945	8.27	339.50	6.78	71.10	0.36	21.62
08/03/87	1000	6.86	349.40	7.94	71.30	0.36	21.34
08/03/87	1015	8.89	352.60	12.19	70.50	0.36	21.39
08/03/87	1030	9.96	8.65	7.53	70.20	0.36	22.12
08/03/87	1045	7.69	16.15	9.92	70.10	0.36	21.68
08/03/87	1100	7.69	352.90	14.23	70.30	0.36	21.54
08/03/87	1115	8.36	3.00	13.82	71.30	0.36	22.78
08/03/87	1130	8.74	10.21	11.83	71.20	0.36	22.04
08/12/87	1030	6.96	346.50	60.19	59.06	0.00	24.59
08/12/87	1045	4.77	1.45	16.93	59.99	0.00	24.88
08/12/87	1100	3.25	39.77	16.18	38.76	0.00	24.22
08/12/87	1115	6.33	34.00	15.35	60.85	0.00	24.88
08/12/87	1130	6.60	48.70	11.79	60.75	0.00	24.89
08/12/87	1145	6.82	38.98	12.61	60.73	0.00	24.90
08/12/87	1200	10.24	46.95	6.30	60.68	0.00	24.90
08/12/87	1215	9.72	38.10	8.70	60.92	0.00	24.89
08/12/87	1230	8.69	42.55	7.54	61.66	0.00	24.89
08/12/87	1245	8.04	47.80	8.29	62.17	0.00	24.89
08/12/87	1300	6.93	36.88	7.54	62.64	0.00	24.89
08/12/87	1315	5.19	21.11	15.00	62.69	0.00	24.89
08/12/87	1330	5.17	33.64	19.73	64.38	0.00	24.89
08/12/87	1345	4.68	17.07	18.14	64.63	0.00	24.89
08/12/87	1400	5.94	11.16	11.50	64.74	0.00	24.89
08/12/87	1415	5.54	0.99	15.40	65.22	0.00	24.89
08/12/87	1430	5.29	16.03	18.14	64.95	0.00	24.89
08/12/87	1445	4.97	30.57	18.96	65.83	0.00	24.88
08/12/87	1500	5.75	18.29	9.51	64.65	0.00	24.87
08/12/87	1515	8.44	46.47	8.76	64.31	0.00	24.87
08/12/87	1530	7.67	44.46	8.76	64.58	0.00	24.88
08/12/87	1545	5.38	60.44	21.36	65.63	0.00	24.87
08/12/87	1600	4.88	59.89	31.96	66.32	0.00	24.87
08/12/87	1615	3.18	17.30	14.30	66.11	0.00	24.87
08/12/87	1630	4.58	33.10	24.37	65.87	0.00	24.85
08/12/87	1645	6.01	51.56	39.35	66.10	0.00	24.85
08/12/87	1700	8.37	57.29	13.89	66.53	0.00	24.84
08/12/87	1715	8.35	50.16	9.99	67.01	0.00	24.84
08/12/87	1730	8.71	67.32	22.85	67.92	0.00	24.83
08/12/87	1745	7.58	73.00	16.56	66.79	0.00	24.83

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/12/87	1800	7.91	82.00	8.41	66.81	0.00	24.83
08/12/87	1815	8.85	85.90	13.82	67.69	0.00	24.82
08/12/87	1830	7.56	102.30	17.38	68.29	0.00	24.82
08/12/87	1845	8.49	123.60	22.91	69.14	0.00	24.82
08/12/87	1900	7.87	94.70	17.72	68.82	0.00	24.81
08/12/87	1915	8.86	100.20	16.96	69.23	0.00	24.81
08/12/87	1930	7.88	136.60	11.15	69.09	0.00	24.80
08/12/87	1945	6.17	134.00	10.33	70.10	0.00	24.81
08/12/87	2000	5.57	156.00	20.11	69.67	0.00	24.81
08/12/87	2015	6.92	141.50	16.62	70.20	0.00	24.81
08/12/87	2030	5.60	125.70	9.92	70.40	0.00	24.80
08/12/87	2045	7.21	118.60	9.17	69.79	0.00	24.80
08/12/87	2100	6.11	125.60	7.53	69.69	0.00	24.80
08/12/87	2115	6.11	126.50	6.43	69.51	0.00	24.79
08/12/87	2130	4.60	118.60	3.22	68.64	0.00	24.80
08/12/87	2145	4.93	118.10	3.22	68.30	0.00	24.80
08/12/87	2200	5.28	123.50	0.89	67.81	0.00	24.80
08/12/87	2215	6.64	135.80	2.81	66.94	0.00	24.80
08/12/87	2230	7.76	134.00	2.81	66.11	0.00	24.80
08/12/87	2245	8.09	123.90	3.22	65.48	0.00	24.80
08/12/87	2300	7.97	130.80	5.14	64.12	0.00	24.80
08/12/87	2315	7.86	133.30	4.38	63.07	0.00	24.80
08/12/87	2330	7.60	147.70	1.99	62.41	0.00	24.81
08/12/87	2345	8.37	150.40	1.58	61.92	0.00	24.81
08/13/87	0	9.66	157.70	2.40	61.98	0.00	24.81
08/13/87	15	9.27	156.20	2.74	61.39	0.00	24.81
08/13/87	30	9.38	157.30	2.74	61.32	0.00	24.80
08/13/87	45	8.85	149.40	2.74	60.66	0.00	24.80
08/13/87	100	8.84	147.20	3.15	59.53	0.00	24.80
08/13/87	115	8.14	149.50	2.40	59.22	0.00	24.80
08/13/87	130	8.58	161.80	3.15	58.96	0.00	24.79
08/13/87	145	7.33	181.10	3.91	60.09	0.00	24.77
08/13/87	200	7.43	193.10	1.99	60.66	0.00	24.77
08/13/87	215	7.22	187.40	2.33	59.98	0.00	24.77
08/13/87	230	7.05	178.40	3.98	59.72	0.00	24.77
08/13/87	245	5.94	172.20	1.99	59.62	0.00	24.77
08/13/87	300	6.18	175.80	2.74	59.39	0.00	24.76
08/13/87	315	7.45	181.50	2.74	59.61	0.00	24.76
08/13/87	330	7.54	174.30	1.58	59.90	0.00	24.76
08/13/87	345	8.25	180.30	1.99	59.60	0.00	24.75
08/13/87	400	5.52	194.30	2.33	59.07	0.00	24.75
08/13/87	415	3.64	226.10	6.31	58.16	0.00	24.74
08/13/87	430	3.65	213.80	53.73	57.39	0.00	24.74
08/13/87	445	2.70	233.80	8.23	56.49	0.00	24.74
08/13/87	500	2.38	241.90	14.55	56.62	0.00	24.74
08/13/87	515	4.43	309.70	10.57	55.59	0.00	24.74

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/13/87	530	3.07	343.90	10.23	55.18	0.00	24.74
08/13/87	545	3.83	348.00	3.16	54.18	0.00	24.74
08/13/87	600	2.49	6.68	4.67	52.97	0.00	24.74
08/13/87	615	2.43	23.36	12.15	52.41	0.00	24.74
08/13/87	630	3.22	345.20	2.75	52.43	0.00	24.73
08/13/87	645	3.64	344.80	14.14	51.52	0.00	24.73
08/13/87	700	3.33	340.60	12.15	52.15	0.00	24.73
08/13/87	715	2.71	319.20	9.41	52.59	0.00	24.73
08/13/87	730	4.26	336.50	6.25	53.11	0.00	24.73
08/13/87	745	5.89	323.10	10.23	53.27	0.00	24.73
08/13/87	800	6.57	325.30	5.49	53.17	0.00	24.73
08/13/87	815	5.96	314.10	7.48	53.32	0.00	24.73
08/13/87	830	4.81	306.10	8.24	53.59	0.00	24.73
08/13/87	845	4.06	322.70	4.74	53.77	0.00	24.74
08/13/87	900	2.70	318.30	16.47	54.00	0.00	24.75
08/13/87	915	2.18	257.60	29.79	54.33	0.00	24.75
08/13/87	930	1.79	294.50	27.04	54.30	0.00	24.75
08/13/87	945	1.37	214.70	7.48	54.38	0.00	24.75
08/13/87	1000	3.69	236.00	12.56	54.28	0.00	24.75
08/13/87	1015	3.91	237.10	28.54	54.55	0.00	24.75
08/13/87	1030	3.16	213.50	12.97	54.76	0.00	24.74
08/13/87	1045	4.38	222.80	18.04	55.03	0.00	24.74
08/13/87	1100	3.42	212.10	19.68	56.08	0.00	24.74
08/13/87	1115	2.98	219.60	8.71	57.91	0.00	24.74
08/13/87	1130	3.75	206.20	12.20	59.18	0.00	24.73
08/13/87	1145	3.44	192.50	14.18	61.29	0.00	24.73
08/13/87	1200	2.57	203.60	23.98	63.27	0.00	24.73
08/13/87	1215	3.18	180.10	15.00	64.71	0.00	24.72
08/13/87	1230	2.97	211.30	18.90	66.22	0.00	24.72
08/13/87	1245	1.26	246.60	42.85	68.96	0.00	24.71
08/13/87	1300	1.77	239.80	51.81	71.00	0.00	23.88
08/13/87	1315	2.10	293.50	21.61	73.50	0.00	24.15
08/13/87	1330	2.05	100.80	27.55	75.20	0.00	21.85
08/13/87	1345	2.87	23.39	29.17	77.20	0.00	22.22
08/13/87	1400	3.85	44.50	27.18	80.60	0.00	24.00
08/13/87	1415	5.41	72.40	29.55	81.70	0.00	24.66
08/13/87	1430	7.54	60.66	14.73	83.00	0.00	24.64
08/13/87	1445	8.56	69.70	15.47	83.20	0.00	24.64
08/13/87	1500	8.93	58.89	12.75	83.50	0.00	24.64
08/13/87	1515	10.01	60.58	11.59	84.80	0.00	24.64
08/13/87	1530	11.26	75.80	22.97	85.10	0.00	24.62
08/13/87	1545	10.80	90.80	8.04	85.10	0.00	24.63
08/13/87	1600	5.57	107.30	23.37	85.70	0.00	24.62
08/13/87	1615	7.60	98.40	17.45	85.20	0.00	24.63
08/13/87	1630	9.62	94.00	9.61	84.80	0.00	24.63
08/13/87	1645	7.86	67.22	15.48	84.10	0.00	24.51

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/13/87	1700	6.67	35.56	11.53	83.60	0.00	24.23
08/13/87	1715	16.10	313.50	9.55	79.50	0.00	24.43
08/13/87	1730	20.15	292.70	4.44	76.00	0.00	24.63
08/13/87	1745	18.26	290.50	4.03	75.00	0.00	24.65
08/13/87	1800	13.11	290.60	5.19	74.30	0.00	24.65
08/13/87	1815	11.86	293.40	4.44	74.40	0.00	24.66
08/13/87	1830	12.53	282.90	7.59	74.00	0.00	24.25
08/13/87	1845	13.34	223.90	5.95	73.10	0.00	23.43
08/13/87	1900	18.73	197.10	3.21	67.23	0.02	24.71
08/13/87	1915	12.02	214.20	4.79	65.65	0.03	24.72
08/13/87	1930	8.66	243.60	6.37	67.02	0.03	24.72
08/13/87	1945	9.80	243.00	3.22	67.67	0.03	24.70
08/13/87	2000	10.66	229.40	5.20	68.98	0.03	24.68
08/13/87	2015	10.05	222.50	12.66	71.70	0.03	24.67
08/13/87	2030	8.03	208.00	4.45	72.10	0.03	24.66
08/13/87	2045	8.79	183.10	5.61	71.40	0.03	24.65
08/13/87	2100	9.34	165.50	6.37	70.00	0.03	24.65
08/13/87	2115	8.32	200.50	6.37	70.70	0.03	24.64
08/13/87	2130	10.67	218.20	2.05	69.95	0.03	24.64
08/13/87	2145	11.70	219.30	2.81	69.17	0.03	24.64
08/13/87	2200	11.07	209.20	1.64	68.26	0.03	24.64
08/13/87	2215	11.21	204.20	2.05	67.42	0.03	24.65
08/13/87	2230	9.84	203.80	3.27	66.68	0.03	24.65
08/13/87	2245	8.89	185.40	2.40	65.86	0.03	24.66
08/13/87	2300	9.25	145.10	9.04	65.15	0.03	24.66
08/13/87	2315	10.30	124.30	4.73	66.05	0.03	24.66
08/13/87	2330	8.99	122.60	3.97	63.54	0.03	24.66
08/13/87	2345	9.27	139.00	5.14	62.77	0.03	24.66
08/14/87	0	9.98	141.60	5.14	62.86	0.03	24.66
08/14/87	15	9.43	125.00	3.15	62.58	0.03	24.66
08/14/87	30	9.28	143.70	18.03	63.50	0.03	24.66
08/14/87	45	9.06	145.50	5.48	62.88	0.03	24.67
08/14/87	100	9.22	162.70	7.13	62.58	0.03	24.67
08/14/87	115	6.44	184.20	3.56	62.17	0.03	24.67
08/14/87	130	6.28	160.90	3.98	62.17	0.03	24.68
08/14/87	145	7.45	173.80	2.40	63.31	0.03	24.68
08/14/87	200	8.17	181.00	3.15	61.42	0.03	24.68
08/14/87	215	4.58	297.30	23.18	58.47	0.03	24.68
08/14/87	230	4.09	217.90	9.88	59.73	0.03	24.68
08/14/87	245	5.70	227.20	7.13	59.91	0.03	24.68
08/14/87	300	6.95	235.10	5.49	61.00	0.03	24.68
08/14/87	315	8.55	202.50	4.73	61.12	0.03	24.68
08/14/87	330	8.01	184.90	3.16	59.92	0.03	24.68
08/14/87	345	5.21	192.20	6.31	59.57	0.03	24.68
08/14/87	400	6.11	215.80	7.48	60.03	0.03	24.68
08/14/87	415	5.69	228.80	5.14	59.69	0.03	24.67

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/14/87	430	6.61	219.60	1.99	59.39	0.03	24.67
08/14/87	445	5.06	210.70	5.14	60.12	0.03	24.67
08/14/87	500	2.88	92.00	24.29	58.49	0.03	24.67
08/14/87	515	2.09	155.70	14.96	59.85	0.03	24.67
08/14/87	530	3.17	149.20	34.10	60.50	0.03	24.67
08/14/87	545	3.28	144.10	4.74	59.27	0.03	24.66
08/14/87	600	6.31	202.30	3.91	61.29	0.03	24.66
08/14/87	615	6.09	223.60	8.99	59.35	0.03	24.66
08/14/87	630	7.47	217.00	6.25	58.19	0.03	24.66
08/14/87	645	9.21	216.20	1.58	59.94	0.03	24.66
08/14/87	700	9.95	216.00	2.33	60.52	0.03	24.66
08/14/87	715	5.95	207.70	5.08	59.54	0.03	24.66
08/14/87	730	6.79	198.70	1.58	59.11	0.03	24.66
08/14/87	745	8.97	199.00	1.58	60.78	0.03	24.66
08/14/87	800	7.72	193.30	4.67	59.66	0.03	24.66
08/14/87	815	5.69	232.70	3.16	56.83	0.03	24.66
08/14/87	830	7.93	241.50	6.25	57.65	0.03	24.66
08/14/87	845	5.74	243.60	4.32	58.29	0.03	24.66
08/14/87	900	5.17	215.10	7.07	57.37	0.03	24.66
08/14/87	915	2.66	214.80	12.97	58.50	0.03	24.66
08/14/87	930	5.96	220.40	4.39	60.33	0.03	24.65
08/14/87	945	8.34	212.70	5.14	62.91	0.03	24.65
08/14/87	1000	9.42	224.10	5.96	64.64	0.03	24.65
08/14/87	1015	10.20	220.00	5.96	66.37	0.03	24.65
08/14/87	1030	9.38	241.80	8.35	67.87	0.03	24.65
08/14/87	1045	8.95	228.90	5.95	67.81	0.03	24.67
08/14/87	1100	7.26	214.40	7.94	69.83	0.03	24.67
08/14/87	1115	6.82	224.20	8.34	70.90	0.03	24.66
08/14/87	1130	5.42	233.10	7.93	72.20	0.03	24.66
08/14/87	1145	5.99	198.10	14.62	73.40	0.03	24.65
08/14/87	1200	7.95	188.70	11.88	74.50	0.03	24.65
08/14/87	1215	7.06	201.10	19.39	76.00	0.03	24.65
08/14/87	1230	5.71	216.70	27.57	77.60	0.03	24.65
08/14/87	1245	5.64	232.90	15.07	78.30	0.03	24.65
08/14/87	1300	5.65	253.30	19.43	79.10	0.03	24.65
08/14/87	1315	6.24	222.90	17.45	80.10	0.03	24.64
08/14/87	1330	7.54	219.00	14.31	80.30	0.03	24.64
08/14/87	1345	7.06	210.30	24.87	80.30	0.03	24.64
08/14/87	1400	8.09	207.50	31.13	81.40	0.03	24.63
08/14/87	1415	6.78	197.50	52.38	81.30	0.03	24.63
08/14/87	1430	6.73	233.90	30.79	82.30	0.03	24.62
08/14/87	1445	3.96	151.50	24.11	83.10	0.03	24.62
08/14/87	1500	6.87	273.20	27.64	83.50	0.03	24.62
08/14/87	1515	8.29	220.50	48.81	82.60	0.03	24.62
08/14/87	1530	4.58	11.59	26.08	83.30	0.03	24.61
08/14/87	1545	4.13	10.09	57.93	84.80	0.03	24.61

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/14/87	1600	5.25	24.57	21.72	84.70	0.03	24.61
08/14/87	1615	6.38	55.77	15.93	85.70	0.03	24.60
08/14/87	1630	6.92	149.70	28.46	85.50	0.03	24.60
08/14/87	1645	4.97	205.70	56.72	85.30	0.03	24.60
08/14/87	1700	6.53	173.10	8.38	84.60	0.03	24.60
08/14/87	1715	7.06	205.90	9.60	84.10	0.03	24.60
08/14/87	1730	5.49	210.20	17.85	84.30	0.03	24.60
08/14/87	1745	2.62	359.80	42.19	86.00	0.03	24.60
08/14/87	1800	4.48	60.34	16.29	85.00	0.03	24.60
08/14/87	1815	4.77	78.00	28.77	84.80	0.03	24.59
08/14/87	1830	4.93	93.90	26.80	85.30	0.03	24.58
08/14/87	1845	4.99	129.70	36.22	85.80	0.03	24.58
08/14/87	1900	4.18	209.50	22.51	85.00	0.03	24.59
08/14/87	1915	7.21	206.30	9.55	85.10	0.03	24.59
08/14/87	1930	6.83	202.30	6.01	85.60	0.03	24.59
08/14/87	1945	6.43	216.60	8.81	86.10	0.03	24.59
08/14/87	2000	5.60	240.40	7.24	86.80	0.03	24.58
08/14/87	2015	3.92	230.40	16.66	86.80	0.03	24.59
08/14/87	2030	4.54	215.40	7.24	86.00	0.03	24.59
08/14/87	2045	4.85	208.00	10.38	86.10	0.03	24.58
08/14/87	2100	2.82	214.60	26.76	86.40	0.03	24.58
08/14/87	2115	2.52	1.26	24.45	84.10	0.03	24.57
08/14/87	2130	2.17	25.61	35.04	81.10	0.03	24.57
08/14/87	2145	4.57	94.50	4.03	80.10	0.03	24.58
08/14/87	2200	8.16	91.20	9.09	80.30	0.03	24.58
08/14/87	2215	5.67	97.20	11.08	79.30	0.03	24.58
08/14/87	2230	4.84	104.80	23.18	78.50	0.03	24.58
08/14/87	2245	3.46	146.10	14.98	77.00	0.03	24.58
08/14/87	2300	7.07	162.90	5.13	78.50	0.03	24.59
08/14/87	2315	10.68	182.30	2.74	75.20	0.03	24.60
08/14/87	2330	10.14	199.50	3.22	73.50	0.03	24.59
08/14/87	2345	6.30	208.40	3.63	72.20	0.03	24.60
08/15/87	0	6.44	211.10	4.79	71.00	0.03	24.61
08/15/87	15	8.86	206.30	6.37	71.10	0.03	24.61
08/15/87	30	9.82	218.10	2.46	70.30	0.03	24.62
08/15/87	45	9.18	219.10	6.78	71.50	0.03	24.62
08/15/87	100	8.29	218.60	6.78	71.10	0.03	24.62
08/15/87	115	9.09	195.40	2.47	70.10	0.03	24.62
08/15/87	130	7.40	207.50	3.22	68.11	0.03	24.62
08/15/87	145	8.40	216.00	1.64	69.17	0.03	24.62
08/15/87	200	8.50	211.90	4.80	66.99	0.03	24.61
08/15/87	215	9.15	202.00	2.06	67.50	0.03	23.76
08/15/87	230	8.62	203.20	3.63	66.93	0.03	21.55
08/15/87	245	10.26	199.10	2.40	66.82	0.03	21.45
08/15/87	300	9.85	199.80	1.65	67.39	0.03	21.27
08/15/87	315	8.61	204.20	4.04	66.58	0.03	21.26

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/15/87	330	7.17	206.30	3.98	65.13	0.03	21.80
08/15/87	345	9.37	185.50	1.65	66.36	0.03	23.65
08/15/87	400	5.44	209.20	8.71	64.13	0.03	24.64
08/15/87	415	8.68	183.40	1.23	64.38	0.03	24.64
08/15/87	430	11.13	186.80	2.40	65.41	0.03	24.64
08/15/87	445	9.24	195.60	2.81	65.58	0.03	24.64
08/15/87	500	10.02	204.30	7.13	65.64	0.03	24.64
08/15/87	515	10.59	209.90	1.99	64.36	0.03	24.64
08/15/87	530	9.86	199.30	2.74	64.74	0.03	24.64
08/15/87	545	9.33	199.70	2.40	65.34	0.03	24.64
08/15/87	600	7.67	202.10	1.58	64.92	0.03	24.64
08/15/87	615	10.87	201.50	1.58	65.78	0.03	24.64
08/15/87	630	10.76	192.10	3.57	64.14	0.03	24.64
08/15/87	645	10.52	182.70	1.99	63.94	0.03	24.64
08/15/87	700	11.11	184.60	1.99	63.66	0.03	24.64
08/15/87	715	11.95	196.70	1.99	64.62	0.03	24.64
08/15/87	730	10.64	203.20	3.15	63.77	0.03	24.64
08/15/87	745	10.03	192.60	1.58	62.36	0.03	24.64
08/15/87	800	10.26	190.70	2.40	62.82	0.03	24.64
08/15/87	815	9.99	182.50	1.99	62.03	0.03	24.65
08/15/87	830	12.04	191.30	1.99	63.14	0.03	24.66
08/15/87	845	11.85	194.50	3.57	63.59	0.03	24.66
08/15/87	900	10.80	201.00	3.15	64.67	0.03	24.65
08/15/87	915	11.39	190.10	2.81	65.93	0.03	24.66
08/15/87	930	12.37	194.40	2.40	67.15	0.03	24.66
08/15/87	945	13.46	195.80	3.22	68.75	0.03	24.66
08/15/87	1000	13.83	198.20	3.22	70.30	0.03	24.66
08/15/87	1015	13.39	201.30	4.79	71.20	0.03	24.66
08/15/87	1030	12.59	197.50	5.13	72.30	0.03	24.66
08/15/87	1045	11.65	198.00	4.38	73.20	0.03	24.66
08/15/87	1100	10.20	205.60	5.95	74.80	0.03	24.06
08/15/87	1115	8.01	218.90	11.48	76.70	0.03	24.30
08/15/87	1130	7.58	213.80	8.40	77.50	0.03	24.66
08/15/87	1145	6.70	237.60	11.95	78.50	0.03	24.27
08/15/87	1200	5.19	238.60	9.21	79.60	0.03	24.45
08/15/87	1215	5.85	230.80	18.62	80.20	0.03	24.66
08/15/87	1230	5.42	236.00	43.35	80.80	0.03	24.66
08/15/87	1245	4.59	245.80	42.93	81.50	0.03	24.66
08/15/87	1300	2.82	227.40	66.88	83.20	0.03	24.53
08/15/87	1315	5.50	215.10	61.41	82.40	0.03	24.22
08/15/87	1330	5.96	184.60	48.20	82.50	0.03	24.07
08/15/87	1345	8.04	171.70	29.61	83.10	0.03	24.03
08/15/87	1400	6.41	177.40	23.35	83.50	0.03	23.99
08/15/87	1415	5.36	219.30	13.95	84.70	0.03	23.99
08/15/87	1430	7.92	191.50	9.60	83.40	0.03	23.90
08/15/87	1445	8.74	173.00	13.95	83.90	0.03	23.89

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/15/87	1500	7.36	206.00	13.95	85.20	0.03	23.64
08/15/87	1515	7.29	129.70	22.19	85.00	0.03	23.27
08/15/87	1530	6.99	157.30	32.40	85.70	0.03	23.18
08/15/87	1545	5.85	203.90	19.06	86.20	0.03	23.08
08/15/87	1600	6.32	227.60	19.87	86.20	0.03	22.96
08/15/87	1615	5.77	235.00	26.82	87.30	0.03	22.96
08/15/87	1630	8.99	140.30	13.14	87.30	0.03	22.96
08/15/87	1645	7.80	143.90	36.69	87.90	0.03	22.91
08/15/87	1700	11.55	90.10	41.39	87.30	0.03	22.91
08/15/87	1715	13.57	105.00	8.03	88.10	0.03	22.93
08/15/87	1730	18.27	91.30	4.15	86.20	0.03	22.54
08/15/87	1745	17.66	88.40	9.20	85.90	0.03	21.83
08/15/87	1800	17.42	87.20	7.63	85.00	0.03	21.74
08/15/87	1815	15.47	81.90	5.25	84.80	0.03	21.75
08/15/87	1830	14.53	89.20	6.00	85.70	0.03	21.03
08/15/87	1845	16.20	81.60	6.00	85.00	0.03	20.47
08/15/87	1900	16.05	75.30	6.01	84.40	0.03	21.53
08/15/87	1915	18.22	76.70	5.60	84.20	0.03	21.57
08/15/87	1930	19.94	72.20	5.60	83.60	0.03	21.65
08/15/87	1945	15.27	66.18	6.35	83.60	0.03	21.48
08/15/87	2000	17.83	63.24	7.58	84.60	0.03	20.86
08/15/87	2015	15.94	53.53	5.19	83.40	0.03	20.36
08/15/87	2030	14.66	38.88	11.48	82.40	0.03	21.34
08/15/87	2045	9.06	354.20	4.78	79.30	0.03	22.62
08/15/87	2100	9.18	9.15	3.62	79.40	0.03	24.20
08/15/87	2115	12.32	18.13	3.62	79.20	0.03	24.52
08/15/87	2130	13.54	24.28	2.80	78.60	0.03	24.55
08/15/87	2145	11.12	23.71	3.97	77.30	0.03	24.57
08/15/87	2200	6.21	10.17	5.54	75.60	0.03	24.59
08/15/87	2215	10.24	22.93	2.81	75.40	0.03	24.62
08/15/87	2230	11.72	29.61	3.15	75.00	0.03	24.63
08/15/87	2245	15.28	36.98	3.56	75.80	0.03	24.64
08/15/87	2300	14.90	23.56	11.43	74.80	0.03	24.66
08/15/87	2315	21.67	22.96	5.54	69.32	0.03	24.67
08/15/87	2330	20.58	25.61	5.61	65.21	0.03	24.70
08/15/87	2345	11.69	13.33	5.61	63.03	0.03	24.69
08/16/87	0	7.31	356.60	22.87	62.38	0.03	22.41
08/16/87	15	11.10	357.30	7.19	62.53	0.03	22.07
08/16/87	30	7.84	32.03	5.96	61.72	0.03	22.03
08/16/87	45	7.96	84.90	7.13	61.18	0.03	22.10
08/16/87	100	10.85	103.40	19.74	60.78	0.03	22.26
08/16/87	115	5.78	82.20	7.95	59.82	0.03	22.65
08/16/87	130	5.63	119.40	10.62	58.20	0.03	24.61
08/16/87	145	7.70	173.60	14.19	58.29	0.03	24.79
08/16/87	200	9.77	112.40	3.56	57.94	0.03	24.79
08/16/87	215	6.23	183.10	10.63	56.90	0.03	24.79

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/16/87	230	9.53	247.10	3.57	56.50	0.03	24.82
08/16/87	245	5.88	149.20	9.06	57.12	0.03	24.82
08/16/87	300	9.92	137.40	3.57	56.29	0.03	24.82
08/16/87	315	9.97	160.60	7.89	56.32	0.03	24.80
08/16/87	330	8.09	181.40	4.73	56.73	0.03	24.80
08/16/87	345	4.72	287.80	12.14	56.62	0.03	24.80
08/16/87	400	5.91	252.20	10.98	57.49	0.03	24.81
08/16/87	415	4.83	223.40	3.16	57.35	0.03	24.81
08/16/87	430	4.93	218.10	2.75	57.63	0.03	24.81
08/16/87	445	5.14	211.60	5.49	57.18	0.03	24.81
08/16/87	500	5.81	195.30	2.75	58.95	0.03	24.81
08/16/87	515	8.67	182.00	1.58	59.13	0.03	24.81
08/16/87	530	9.33	172.20	4.67	58.91	0.03	24.81
08/16/87	545	11.97	168.00	3.50	56.47	0.03	24.81
08/16/87	600	10.95	175.70	2.75	55.64	0.03	24.81
08/16/87	615	9.28	182.20	2.75	55.11	0.03	24.81
08/16/87	630	7.39	184.10	5.49	55.03	0.03	24.81
08/16/87	645	6.72	168.60	6.66	54.47	0.03	24.81
08/16/87	700	7.38	175.90	3.09	54.03	0.03	24.81
08/16/87	715	3.03	116.10	21.97	51.96	0.03	24.81
08/16/87	730	5.78	198.10	11.74	53.29	0.03	24.81
08/16/87	745	8.61	187.60	16.82	56.59	0.03	24.81
08/16/87	800	8.56	201.40	3.09	56.19	0.03	24.81
08/16/87	815	8.13	208.40	9.41	56.77	0.03	24.81
08/16/87	830	7.43	206.20	7.07	55.94	0.03	24.82
08/16/87	845	7.85	200.40	12.91	55.94	0.03	24.82
08/16/87	900	9.25	223.50	3.91	57.10	0.03	24.84
08/16/87	915	8.88	225.70	3.57	59.93	0.03	24.83
08/16/87	930	6.78	195.40	39.65	60.41	0.03	24.83
08/16/87	945	4.03	120.60	18.03	61.57	0.03	24.83
08/16/87	1000	2.82	183.90	44.00	64.94	0.03	24.71
08/16/87	1015	2.19	209.20	40.88	67.72	0.03	24.06
08/16/87	1030	5.12	287.30	7.12	69.77	0.03	24.10
08/16/87	1045	6.17	290.90	14.98	69.64	0.03	24.83
08/16/87	1100	3.20	349.30	15.79	70.30	0.03	24.83
08/16/87	1115	4.95	45.87	15.03	71.10	0.03	24.84
08/16/87	1130	2.61	77.10	53.48	73.00	0.03	24.81
08/16/87	1145	5.80	80.90	32.70	72.30	0.03	22.59
08/16/87	1200	3.32	44.16	53.09	74.50	0.03	22.25
08/16/87	1215	5.08	246.20	57.50	74.90	0.03	24.83
08/16/87	1230	5.84	241.30	9.21	74.90	0.03	24.83
08/16/87	1245	4.71	222.60	22.56	75.30	0.03	24.83
08/16/87	1300	5.00	297.30	40.96	76.00	0.03	24.83
08/16/87	1315	4.28	244.50	33.52	76.70	0.03	24.83
08/16/87	1330	6.05	248.60	27.18	77.20	0.03	24.82
08/16/87	1345	7.44	244.80	8.45	77.80	0.03	24.81

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/16/87	1400	6.45	231.10	18.60	77.80	0.03	24.81
08/16/87	1415	9.56	182.10	11.58	77.40	0.03	24.80
08/16/87	1430	5.59	177.30	23.37	79.80	0.03	24.80
08/16/87	1445	6.79	210.80	22.14	79.30	0.03	24.80
08/16/87	1500	5.90	283.50	43.12	80.30	0.03	24.80
08/16/87	1515	5.76	272.50	20.57	81.10	0.03	24.78
08/16/87	1530	6.19	246.60	19.41	81.60	0.03	24.78
08/16/87	1545	4.71	228.40	72.70	82.30	0.03	24.78
08/16/87	1600	7.69	32.59	12.73	82.30	0.03	24.78
08/16/87	1615	6.30	13.29	32.35	82.80	0.03	24.78
08/16/87	1630	6.96	5.40	19.82	82.90	0.03	24.78
08/16/87	1645	7.21	331.90	10.83	82.90	0.03	24.77
08/16/87	1700	4.98	6.68	20.23	83.60	0.03	24.77
08/16/87	1715	4.69	203.30	44.54	84.70	0.03	24.77
08/16/87	1730	4.26	255.80	41.82	85.00	0.03	24.76
08/16/87	1745	6.89	271.90	13.15	85.00	0.03	24.75
08/16/87	1800	3.87	253.90	20.64	85.00	0.03	24.75
08/16/87	1815	6.71	298.20	15.87	85.10	0.03	24.75
08/16/87	1830	5.92	284.50	40.20	85.60	0.03	24.75
08/16/87	1845	5.28	327.00	15.47	85.70	0.03	24.75
08/16/87	1900	5.16	293.00	24.12	86.50	0.03	24.74
08/16/87	1915	5.64	290.40	22.96	85.70	0.03	24.75
08/16/87	1930	6.99	320.40	10.77	85.60	0.03	24.75
08/16/87	1945	6.75	330.20	12.75	85.50	0.03	24.75
08/16/87	2000	6.69	321.90	10.70	85.20	0.03	24.76
08/16/87	2015	5.57	329.30	4.84	85.20	0.03	24.75
08/16/87	2030	4.56	319.80	34.65	85.20	0.03	24.76
08/16/87	2045	4.80	359.80	4.09	84.70	0.03	24.75
08/16/87	2100	3.14	8.25	4.85	84.00	0.03	24.75
08/16/87	2115	4.06	4.10	13.45	82.70	0.03	24.75
08/16/87	2130	6.48	28.40	3.21	80.40	0.03	24.76
08/16/87	2145	5.04	20.56	4.03	79.10	0.03	24.76
08/16/87	2200	4.66	29.24	9.09	78.00	0.03	24.77
08/16/87	2215	4.26	37.45	2.80	74.30	0.03	24.28
08/16/87	2230	5.03	45.56	8.28	74.70	0.03	23.62
08/16/87	2245	6.58	57.17	4.38	73.90	0.03	23.30
08/16/87	2300	4.15	53.75	12.59	73.30	0.03	23.14
08/16/87	2315	3.97	354.40	26.29	71.80	0.03	23.23
08/16/87	2330	4.18	22.76	9.52	70.60	0.03	23.00
08/16/87	2345	3.07	40.06	37.25	69.38	0.03	22.89
08/17/87	0	2.86	342.30	19.32	68.78	0.03	23.00
08/17/87	15	2.96	350.00	25.14	69.91	0.03	22.94
08/17/87	30	3.60	308.70	20.08	68.49	0.03	22.99
08/17/87	45	5.09	318.80	10.69	69.10	0.03	24.29
08/17/87	100	4.51	341.90	16.59	68.94	0.03	24.79
08/17/87	115	5.49	334.80	11.72	67.51	0.03	24.78

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/17/87	130	7.71	309.90	8.71	65.61	0.03	24.81
08/17/87	145	7.85	311.00	4.73	65.50	0.03	24.82
08/17/87	200	9.02	324.30	5.55	66.62	0.03	24.82
08/17/87	215	7.96	316.40	6.72	67.55	0.03	24.82
08/17/87	230	8.46	307.50	1.58	64.78	0.03	24.82
08/17/87	245	6.92	288.60	14.20	64.16	0.03	24.83
08/17/87	300	3.27	255.80	33.34	61.86	0.03	24.85
08/17/87	315	3.68	44.01	18.04	61.44	0.03	24.85
08/17/87	330	2.80	343.00	8.65	64.23	0.03	24.85
08/17/87	345	3.89	345.70	3.16	65.63	0.03	24.85
08/17/87	400	4.44	325.70	16.12	65.15	0.03	24.85
08/17/87	415	4.85	229.20	9.47	63.76	0.03	24.85
08/17/87	430	4.24	294.30	3.16	64.35	0.03	24.85
08/17/87	445	6.75	304.30	3.57	64.71	0.03	24.85
08/17/87	500	4.92	309.50	3.16	63.95	0.03	24.85
08/17/87	515	6.28	315.60	4.32	63.95	0.03	24.85
08/17/87	530	5.74	327.60	3.57	63.14	0.03	24.85
08/17/87	545	7.86	338.10	1.99	61.86	0.03	24.86
08/17/87	600	8.63	332.90	1.99	60.95	0.03	24.87
08/17/87	615	7.91	327.30	2.33	60.77	0.03	24.87
08/17/87	630	4.16	327.70	6.25	60.03	0.03	24.87
08/17/87	645	2.73	356.40	10.23	58.64	0.03	24.88
08/17/87	700	3.91	324.70	4.67	58.26	0.03	24.89
08/17/87	715	6.53	306.20	4.67	59.76	0.03	24.90
08/17/87	730	3.92	300.80	26.63	60.14	0.03	24.90
08/17/87	745	1.65	38.76	35.63	59.96	0.03	24.90
08/17/87	800	3.90	135.60	11.33	61.18	0.03	24.90
08/17/87	815	7.13	164.50	12.49	61.28	0.03	24.90
08/17/87	830	7.51	197.50	5.08	58.52	0.03	24.90
08/17/87	845	6.18	201.20	4.67	58.41	0.03	24.91
08/17/87	900	7.30	208.00	3.16	58.33	0.03	24.92
08/17/87	915	6.38	214.40	6.66	59.54	0.03	24.92
08/17/87	930	5.39	220.60	5.90	61.04	0.03	24.92
08/17/87	945	5.72	219.20	12.61	62.65	0.03	24.91
08/17/87	1000	6.08	215.60	4.38	64.25	0.03	24.71
08/17/87	1015	6.48	217.90	4.79	66.15	0.03	24.29
08/17/87	1030	7.41	204.10	6.02	67.44	0.03	24.66
08/17/87	1045	9.02	207.60	4.79	67.95	0.03	23.75
08/17/87	1100	9.55	208.60	12.24	68.56	0.03	23.78
08/17/87	1115	9.04	211.80	10.32	69.30	0.03	24.59
08/17/87	1130	9.44	206.20	12.24	70.40	0.03	24.64
08/17/87	1145	8.77	194.20	9.16	71.30	0.03	24.89
08/17/87	1200	8.16	188.10	18.17	72.20	0.03	24.84
08/17/87	1215	8.98	179.60	9.56	72.70	0.03	23.97
08/17/87	1230	8.87	172.00	13.52	74.30	0.03	23.86
08/17/87	1245	9.34	163.10	6.83	75.10	0.03	23.66

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/17/87	1300	8.94	176.10	13.92	76.50	0.03	23.65
08/17/87	1315	9.60	183.00	7.64	77.30	0.03	23.97
08/17/87	1330	7.83	182.50	8.05	78.60	0.03	23.69
08/17/87	1345	7.66	169.50	21.00	79.80	0.03	23.66
08/17/87	1400	7.69	180.90	17.86	80.40	0.03	24.80
08/17/87	1415	5.36	123.20	42.93	81.00	0.03	24.86
08/17/87	1430	7.27	202.30	21.39	81.40	0.03	24.85
08/17/87	1445	4.82	274.00	76.30	82.60	0.03	24.85
08/17/87	1500	4.47	162.50	23.77	83.90	0.03	24.84
08/17/87	1515	6.51	206.50	48.42	83.30	0.03	24.84
08/17/87	1530	4.45	296.90	55.90	85.00	0.03	24.84
08/17/87	1545	4.88	295.60	58.67	84.90	0.03	24.83
08/17/87	1600	5.68	291.30	40.57	85.50	0.03	24.81
08/17/87	1615	5.07	197.80	28.79	85.80	0.03	24.81
08/17/87	1630	6.80	251.00	24.84	86.00	0.03	24.80
08/17/87	1645	4.25	186.70	26.07	87.10	0.03	24.80
08/17/87	1700	9.91	226.20	22.94	87.00	0.03	24.79
08/17/87	1715	5.88	216.40	35.47	87.50	0.03	24.78
08/17/87	1730	8.21	223.00	33.16	87.90	0.03	24.78
08/17/87	1745	5.98	252.30	11.58	88.60	0.03	24.78
08/17/87	1800	7.77	286.00	23.70	87.50	0.03	24.78
08/17/87	1815	6.87	238.10	19.82	87.60	0.03	24.78
08/17/87	1830	5.56	293.30	73.50	87.80	0.03	24.78
08/17/87	1845	3.27	252.90	26.44	90.70	0.03	24.78
08/17/87	1900	5.36	251.40	35.50	88.20	0.03	24.77
08/17/87	1915	6.14	294.60	20.18	87.30	0.03	24.78
08/17/87	1930	7.99	347.10	5.66	87.20	0.03	24.78
08/17/87	1945	9.46	46.54	14.32	87.50	0.03	24.78
08/17/87	2000	10.67	29.63	10.78	87.40	0.03	24.78
08/17/87	2015	11.58	30.87	6.41	86.70	0.03	24.78
08/17/87	2030	12.65	22.14	7.98	86.00	0.03	24.79
08/17/87	2045	8.59	53.15	25.18	86.70	0.03	24.78
08/17/87	2100	12.68	37.56	6.42	65.70	0.03	24.78
08/17/87	2115	12.09	44.26	6.01	83.80	0.03	24.79
08/17/87	2130	10.10	52.56	6.83	81.10	0.03	24.79
08/17/87	2145	9.10	69.31	7.92	81.10	0.03	24.79
08/17/87	2200	5.26	40.33	11.07	79.20	0.03	24.81
08/17/87	2215	4.02	2.60	20.92	77.90	0.03	24.81
08/17/87	2230	4.76	90.40	3.21	77.60	0.03	24.81
08/17/87	2245	3.02	76.80	11.49	76.30	0.03	24.83
08/17/87	2300	2.38	48.26	24.77	75.20	0.03	24.81
08/17/87	2315	2.97	54.05	5.20	74.50	0.03	23.53
08/17/87	2330	5.69	68.85	4.04	74.40	0.03	24.55
08/17/87	2345	7.26	75.60	4.79	72.40	0.03	24.82
08/18/87	0	7.27	83.50	5.96	70.40	0.03	24.82
08/18/87	15	7.00	103.00	2.81	68.93	0.03	24.82

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/18/87	30	8.84	64.19	7.53	67.92	0.03	24.78
08/18/87	45	9.15	55.12	5.21	68.07	0.03	24.73
08/18/87	100	6.89	59.63	4.04	67.30	0.03	24.68
08/18/87	115	7.12	67.36	3.63	66.72	0.03	24.65
08/18/87	130	8.04	63.43	2.81	65.65	0.03	24.51
08/18/87	145	10.07	49.16	4.38	65.65	0.03	23.12
08/18/87	200	9.44	29.02	5.14	66.95	0.03	22.85
08/18/87	215	6.96	357.90	4.80	66.98	0.03	22.69
08/18/87	230	8.53	354.10	7.54	66.19	0.03	22.65
08/18/87	245	11.62	337.70	2.81	64.80	0.03	22.65
08/18/87	300	9.93	341.00	2.40	63.34	0.03	23.06
08/18/87	315	9.29	343.50	5.14	62.58	0.03	23.22
08/18/87	330	9.76	341.80	3.98	61.70	0.03	23.29
08/18/87	345	9.60	339.80	5.90	60.49	0.03	23.41
08/18/87	400	9.16	344.40	3.98	59.51	0.03	23.96
08/18/87	415	7.91	340.10	8.30	58.73	0.03	24.99
08/18/87	430	6.73	342.80	1.99	57.85	0.03	24.99
08/18/87	445	5.59	345.40	6.31	57.55	0.03	25.00
08/18/87	500	4.52	348.70	3.91	56.47	0.03	25.00
08/18/87	515	6.40	340.70	2.74	56.39	0.03	25.00
08/18/87	530	4.92	345.60	6.25	55.71	0.03	25.00
08/18/87	545	3.45	345.30	1.58	55.42	0.03	25.01
08/18/87	600	2.42	352.70	9.81	54.96	0.03	25.02
08/18/87	615	3.02	342.80	11.74	54.05	0.03	25.02
08/18/87	630	3.73	334.20	7.83	54.21	0.03	25.02
08/18/87	645	3.98	333.80	5.08	54.11	0.03	25.03
08/18/87	700	3.90	316.70	1.51	53.74	0.03	25.03
08/18/87	715	3.43	309.00	5.08	53.28	0.03	25.04
08/18/87	730	3.06	298.60	3.91	53.06	0.03	25.04
08/18/87	745	3.08	304.30	2.68	53.26	0.03	25.05
08/18/87	800	3.53	309.60	6.25	53.26	0.03	25.05
08/18/87	815	3.90	329.50	3.09	53.23	0.03	25.06
08/18/87	830	4.52	336.10	1.51	53.39	0.03	25.07
08/18/87	845	4.23	340.30	5.08	53.29	0.03	25.07
08/18/87	900	5.40	338.30	0.76	53.43	0.03	25.08
08/18/87	915	4.25	338.40	7.42	53.72	0.03	25.08
08/18/87	930	5.00	344.30	4.67	54.95	0.03	25.08
08/18/87	945	4.69	351.60	10.98	55.26	0.03	25.08
08/18/87	1000	5.39	349.70	8.24	55.21	0.03	25.08
08/18/87	1015	4.10	8.88	12.15	55.36	0.03	25.08
08/18/87	1030	4.22	30.15	11.05	55.57	0.03	25.08
08/18/87	1045	4.59	30.33	14.96	55.56	0.03	25.08
08/18/87	1100	2.64	22.13	32.58	55.87	0.03	25.08
08/18/87	1115	2.63	45.56	24.01	57.11	0.03	25.08
08/18/87	1130	3.42	76.30	17.76	58.20	0.03	25.08
08/18/87	1145	4.31	33.41	11.86	58.17	0.03	25.08

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/18/87	1200	3.88	47.13	13.08	59.37	0.03	25.07
08/18/87	1215	3.29	57.13	67.57	60.86	0.03	25.07
08/18/87	1230	4.61	57.01	25.11	61.20	0.03	24.55
08/18/87	1245	4.38	71.70	50.27	61.65	0.03	24.20
08/18/87	1300	3.89	86.80	46.48	63.23	0.03	24.13
08/18/87	1315	4.39	56.32	30.68	63.20	0.03	24.08
08/18/87	1330	6.17	123.30	16.19	63.17	0.03	24.02
08/18/87	1345	5.41	185.80	53.48	64.17	0.03	23.96
08/18/87	1400	5.47	197.30	38.17	65.25	0.03	24.11
08/18/87	1415	5.57	101.70	22.87	65.97	0.03	24.17
08/18/87	1430	5.60	91.10	53.46	66.84	0.03	24.12
08/18/87	1445	6.40	94.00	30.31	67.77	0.03	24.04
08/18/87	1500	7.52	96.90	23.28	67.75	0.03	23.95
08/18/87	1515	6.91	114.70	25.19	69.17	0.03	23.89
08/18/87	1530	6.04	166.00	70.70	70.40	0.03	24.08
08/18/87	1545	5.69	170.00	18.97	70.50	0.03	24.42
08/18/87	1600	6.92	125.00	15.08	71.70	0.03	24.27
08/18/87	1615	7.09	122.80	17.06	71.70	0.03	24.01
08/18/87	1630	6.37	105.30	24.09	72.90	0.03	23.87
08/18/87	1645	6.29	132.30	22.93	73.50	0.03	23.87
08/18/87	1700	5.72	159.70	57.06	74.30	0.03	23.87
08/18/87	1715	6.88	141.60	29.21	75.50	0.03	24.03
08/18/87	1730	5.87	116.70	28.80	76.30	0.03	23.96
08/18/87	1745	6.31	112.60	15.08	77.10	0.03	23.75
08/18/87	1800	6.18	114.60	29.61	77.60	0.03	23.64
08/18/87	1815	5.78	122.00	20.61	78.50	0.03	23.53
08/18/87	1830	4.70	138.30	44.08	79.40	0.03	23.51
08/18/87	1845	6.16	88.80	28.80	79.20	0.03	23.44
08/18/87	1900	5.60	127.40	26.41	79.80	0.03	23.42
08/18/87	1915	5.35	94.10	6.01	80.20	0.03	23.43
08/18/87	1930	4.91	108.80	34.68	80.20	0.03	23.44
08/18/87	1945	6.41	129.50	7.99	80.50	0.03	23.39
08/18/87	2000	3.62	134.00	20.55	81.00	0.03	23.36
08/18/87	2015	5.13	87.90	9.97	81.00	0.03	23.19
08/18/87	2030	5.57	106.20	15.43	80.70	0.03	23.17
08/18/87	2045	6.45	121.10	9.97	80.90	0.03	23.29
08/18/87	2100	6.46	85.90	8.40	80.30	0.03	23.32
08/18/87	2115	5.52	73.10	7.65	79.80	0.03	23.37
08/18/87	2130	5.90	84.20	8.82	78.80	0.03	23.59
08/18/87	2145	7.26	115.60	8.41	77.60	0.03	23.93
08/18/87	2200	6.04	139.70	5.61	76.10	0.03	24.32
08/18/87	2215	8.62	123.30	3.62	75.10	0.03	24.90
08/18/87	2230	9.38	128.30	2.81	73.60	0.03	24.90
08/18/87	2245	12.69	145.60	4.04	73.30	0.03	24.90
08/18/87	2300	15.60	161.90	4.11	73.80	0.03	24.91
08/18/87	2315	15.10	175.90	2.87	73.10	0.03	24.91

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/18/87	2330	13.14	204.60	2.46	72.30	0.03	24.92
08/18/87	2345	10.71	201.80	4.79	71.10	0.03	24.92
08/19/87	0	10.31	202.30	3.63	70.80	0.03	24.94
08/19/87	15	9.61	187.30	3.63	69.58	0.03	24.94
08/19/87	30	9.74	172.20	4.38	68.70	0.03	24.94
08/19/87	45	8.15	178.30	2.46	67.96	0.03	24.94
08/19/87	100	8.21	177.40	2.81	66.99	0.03	24.94
08/19/87	115	8.66	172.30	2.81	67.00	0.03	24.94
08/19/87	130	7.73	170.90	3.22	66.34	0.03	24.94
08/19/87	145	8.07	175.80	3.22	66.29	0.03	24.94
08/19/87	200	7.72	179.00	3.22	65.59	0.03	24.94
08/19/87	215	10.46	186.70	2.40	65.60	0.03	24.94
08/19/87	230	12.50	190.20	3.22	65.84	0.03	24.93
08/19/87	245	12.98	191.60	3.56	65.79	0.03	24.93
08/19/87	300	13.95	191.90	3.22	66.00	0.03	24.93
08/19/87	315	15.06	191.10	3.22	66.16	0.03	24.93
08/19/87	330	15.23	192.50	3.22	66.38	0.03	24.93
08/19/87	345	17.25	189.50	2.81	66.83	0.03	24.92
08/19/87	400	17.72	188.30	2.40	66.89	0.03	24.91
08/19/87	415	14.96	193.40	3.15	66.66	0.03	24.91
08/19/87	430	12.08	204.00	3.56	66.39	0.03	24.91
08/19/87	445	12.70	205.50	2.40	65.83	0.03	24.91
08/19/87	500	13.46	201.30	1.99	65.46	0.03	24.91
08/19/87	515	13.88	201.30	2.40	65.36	0.03	24.91
08/19/87	530	14.15	197.30	1.99	65.00	0.03	24.91
08/19/87	545	13.74	197.00	1.99	64.31	0.03	24.91
08/19/87	600	14.00	198.30	1.99	64.04	0.03	24.91
08/19/87	615	13.32	197.80	1.58	63.75	0.03	24.91
08/19/87	630	11.88	199.20	2.40	63.72	0.03	24.91
08/19/87	645	10.64	192.50	1.99	63.72	0.03	24.91
08/19/87	700	10.35	190.90	2.74	63.51	0.03	24.91
08/19/87	715	10.99	196.40	4.73	63.91	0.03	24.91
08/19/87	730	10.70	206.60	3.15	63.23	0.03	24.91
08/19/87	745	11.11	201.80	2.40	63.35	0.03	24.91
08/19/87	800	8.51	207.20	3.57	62.31	0.03	24.91
08/19/87	815	4.33	252.50	16.53	60.32	0.03	24.91
08/19/87	830	2.18	179.90	4.73	61.32	0.03	24.92
08/19/87	845	2.12	199.20	10.63	63.30	0.03	24.92
08/19/87	900	3.93	226.20	12.62	63.54	0.03	24.91
08/19/87	915	2.97	273.20	31.41	61.60	0.03	24.92
08/19/87	930	2.50	325.20	22.41	62.01	0.03	24.93
08/19/87	945	4.60	251.60	7.19	64.02	0.03	24.93
08/19/87	1000	5.56	226.30	14.66	65.51	0.03	24.93
08/19/87	1015	5.62	322.80	7.19	65.40	0.03	24.93
08/19/87	1030	6.56	324.30	7.18	65.34	0.03	24.93
08/19/87	1045	5.54	327.30	9.92	66.18	0.03	24.93

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/19/87	1100	4.52	332.10	23.24	67.91	0.03	24.93
08/19/87	1115	2.93	231.10	20.91	70.30	0.03	24.93
08/19/87	1130	2.40	193.10	15.02	72.60	0.03	24.90
08/19/87	1145	4.21	187.40	8.39	73.20	0.03	24.91
08/19/87	1200	4.81	197.60	12.69	74.60	0.03	24.91
08/19/87	1215	3.38	213.70	13.09	77.30	0.03	24.65
08/19/87	1230	3.98	190.80	18.20	79.20	0.03	23.87
08/19/87	1245	4.20	149.80	22.96	80.90	0.03	24.69
08/19/87	1300	4.67	164.00	32.77	81.80	0.03	24.87
08/19/87	1315	4.14	146.60	31.12	83.80	0.03	24.88
08/19/87	1330	4.96	167.40	12.73	84.60	0.03	24.89
08/19/87	1345	5.19	168.80	28.04	85.70	0.03	24.88
08/19/87	1400	4.29	157.20	47.63	87.10	0.03	24.87
08/19/87	1415	6.53	111.00	19.86	87.10	0.03	24.88
08/19/87	1430	5.61	112.50	31.84	87.80	0.03	24.87
08/19/87	1445	7.27	196.10	51.16	87.70	0.03	24.86
08/19/87	1500	6.71	194.60	21.36	88.60	0.03	24.86
08/19/87	1515	8.23	243.70	21.36	88.60	0.03	24.85
08/19/87	1530	6.02	217.20	30.40	89.50	0.03	24.84
08/19/87	1545	4.74	355.00	61.42	90.10	0.03	24.84
08/19/87	1600	6.66	312.20	15.92	90.10	0.03	24.84
08/19/87	1615	6.66	359.80	31.15	90.50	0.03	24.83
08/19/87	1630	6.78	329.80	11.97	91.00	0.03	24.83
08/19/87	1645	4.77	46.69	28.83	92.10	0.03	24.83
08/19/87	1700	5.05	355.30	69.24	92.50	0.03	24.82
08/19/87	1715	6.29	82.80	21.36	91.80	0.03	24.81
08/19/87	1730	3.83	93.70	50.35	91.50	0.03	24.81
08/19/87	1745	8.42	191.00	40.56	91.40	0.03	24.81
08/19/87	1800	4.59	163.00	37.03	92.70	0.03	24.80
08/19/87	1815	7.49	137.90	21.03	93.00	0.03	24.79
08/19/87	1830	7.39	117.90	11.57	93.00	0.03	24.79
08/19/87	1845	8.53	116.80	22.53	92.80	0.03	24.78
08/19/87	1900	9.80	130.90	14.37	92.90	0.03	24.78
08/19/87	1915	8.13	138.00	24.52	92.10	0.03	24.78
08/19/87	1930	7.11	141.20	12.60	91.30	0.03	24.78
08/19/87	1945	7.02	128.40	29.98	92.10	0.03	24.78
08/19/87	2000	13.76	136.30	5.25	91.80	0.03	24.77
08/19/87	2015	12.96	134.30	5.66	90.60	0.03	24.63
08/19/87	2030	10.00	145.60	7.23	89.90	0.03	21.71
08/19/87	2045	10.84	154.80	4.50	89.00	0.03	21.79
08/19/87	2100	9.40	173.70	21.36	88.70	0.03	21.91
08/19/87	2115	11.55	159.30	9.56	89.10	0.03	21.49
08/19/87	2130	17.27	165.00	6.42	88.80	0.03	20.89
08/19/87	2145	13.12	159.80	2.87	87.50	0.03	21.19
08/19/87	2200	13.46	162.00	3.69	86.10	0.03	22.48
08/19/87	2215	12.26	167.30	3.69	84.70	0.03	23.06

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/19/87	2230	12.69	175.30	2.87	84.10	0.03	24.56
08/19/87	2245	11.88	177.70	3.62	83.40	0.03	24.81
08/19/87	2300	10.10	177.90	3.21	82.10	0.03	24.81
08/19/87	2315	10.91	175.70	3.21	81.70	0.03	24.80
08/19/87	2330	11.38	174.00	3.62	81.30	0.03	24.80
08/19/87	2345	10.47	178.60	4.04	80.50	0.03	24.82
08/20/87	0	11.04	183.10	3.62	80.00	0.03	24.82
08/20/87	15	13.13	179.40	4.04	80.20	0.03	24.82
08/20/87	30	12.30	176.20	4.38	79.50	0.03	24.83
08/20/87	45	12.78	174.90	3.21	78.40	0.03	24.83
08/20/87	100	8.91	193.00	7.18	76.60	0.03	24.84
08/20/87	115	8.97	213.50	10.68	74.60	0.03	24.24
08/20/87	130	8.97	221.50	2.46	73.30	0.03	23.59
08/20/87	145	8.79	217.10	4.45	72.30	0.03	24.59
08/20/87	200	8.58	211.90	9.93	71.40	0.03	24.83
08/20/87	215	9.10	219.20	4.79	70.20	0.03	24.84
08/20/87	230	9.83	221.70	3.22	69.88	0.03	24.84
08/20/87	245	10.12	219.80	3.63	70.90	0.03	24.84
08/20/87	300	10.13	203.90	2.40	70.60	0.03	24.84
08/20/87	315	10.22	207.30	2.81	69.74	0.03	24.83
08/20/87	330	11.37	199.30	1.99	70.10	0.03	24.83
08/20/87	345	10.74	202.10	1.64	69.73	0.03	24.83
08/20/87	400	10.42	199.80	2.06	68.68	0.03	24.83
08/20/87	415	10.38	200.40	1.99	68.19	0.03	24.83
08/20/87	430	10.50	198.70	1.64	67.79	0.03	24.82
08/20/87	445	10.28	198.80	2.40	66.98	0.03	24.82
08/20/87	500	9.58	196.40	2.40	66.27	0.03	24.78
08/20/87	515	10.90	194.30	1.99	66.44	0.03	23.79
08/20/87	530	11.62	196.60	1.58	66.53	0.03	23.38
08/20/87	545	11.73	196.80	1.58	66.18	0.03	23.32
08/20/87	600	11.78	199.00	1.58	66.59	0.03	23.15
08/20/87	615	10.69	194.30	2.40	66.26	0.03	23.05
08/20/87	630	10.74	196.10	3.98	65.81	0.03	22.98
08/20/87	645	10.43	207.20	3.15	66.00	0.03	22.99
08/20/87	700	6.57	243.30	11.79	63.52	0.03	23.15
08/20/87	715	5.55	252.40	3.98	63.19	0.03	24.28
08/20/87	730	2.73	279.90	8.30	61.57	0.03	24.79
08/20/87	745	1.15	295.00	30.99	61.62	0.03	24.83
08/20/87	800	1.34	153.30	12.21	61.82	0.03	24.84
08/20/87	815	4.54	189.80	1.99	64.02	0.03	24.84
08/20/87	830	7.56	208.00	6.31	64.27	0.03	24.84
08/20/87	845	11.62	210.80	3.57	65.99	0.03	24.84
08/20/87	900	9.84	213.10	2.40	66.35	0.03	24.84
08/20/87	915	9.08	214.10	3.22	66.56	0.03	24.84
08/20/87	930	5.48	199.40	15.02	67.12	0.03	24.82
08/20/87	945	6.08	195.80	4.39	67.93	0.03	24.82

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/20/87	1000	8.18	203.40	5.55	69.09	0.03	24.71
08/20/87	1015	6.36	200.40	7.54	70.60	0.03	24.33
08/20/87	1030	9.37	191.40	6.37	71.50	0.03	24.62
08/20/87	1045	11.36	208.80	5.96	72.00	0.03	24.45
08/20/87	1100	13.34	205.50	4.11	73.70	0.03	24.84
08/20/87	1115	12.66	218.00	5.61	76.30	0.03	24.84
08/20/87	1130	10.45	234.60	6.78	78.00	0.03	24.84
08/20/87	1145	8.69	240.20	13.82	79.70	0.03	24.84
08/20/87	1200	9.92	224.40	13.47	82.10	0.03	24.63
08/20/87	1215	12.77	220.40	8.81	84.60	0.03	23.34
08/20/87	1230	15.89	212.90	3.28	85.60	0.03	23.07
08/20/87	1245	16.95	210.90	4.84	87.20	0.03	22.62
08/20/87	1300	17.78	203.60	3.68	88.50	0.03	21.24
08/20/87	1315	17.47	218.90	3.68	89.90	0.03	22.42
08/20/87	1330	15.71	218.20	6.48	89.90	0.03	24.76
08/20/87	1345	11.45	208.30	16.70	90.10	0.03	24.75
08/20/87	1400	8.32	207.00	15.46	91.70	0.03	23.94
08/20/87	1415	5.05	153.40	59.85	91.60	0.03	23.34
08/20/87	1430	6.57	194.40	20.21	92.20	0.03	24.81
08/20/87	1445	4.64	171.90	73.90	92.80	0.03	24.83
08/20/87	1500	8.65	237.90	15.51	91.70	0.03	24.81
08/20/87	1515	6.36	214.80	17.00	92.80	0.03	24.81
08/20/87	1530	7.53	218.10	26.45	92.80	0.03	24.79
08/20/87	1545	7.38	215.60	28.43	93.20	0.03	24.79
08/20/87	1600	8.73	235.90	10.40	93.80	0.03	24.79
08/20/87	1615	7.45	262.50	44.48	93.10	0.03	24.79
08/20/87	1630	6.46	209.40	34.75	94.40	0.03	24.78
08/20/87	1645	3.94	30.82	25.57	95.10	0.03	24.78
08/20/87	1700	5.54	28.56	25.63	93.50	0.03	24.78
08/20/87	1715	7.81	305.00	8.84	94.30	0.03	24.77
08/20/87	1730	9.67	303.10	17.48	93.80	0.03	24.76
08/20/87	1745	6.17	286.40	17.07	93.60	0.03	24.75
08/20/87	1800	4.90	240.70	22.52	93.80	0.03	24.75
08/20/87	1815	8.56	253.70	7.28	92.50	0.03	24.37
08/20/87	1830	6.20	275.60	4.90	92.40	0.03	22.63
08/20/87	1845	13.35	254.70	10.42	92.30	0.03	22.07
08/20/87	1900	9.56	269.80	19.83	91.70	0.03	21.55
08/20/87	1915	7.63	297.30	13.56	91.10	0.03	22.54
08/20/87	1930	12.41	277.70	5.66	90.50	0.03	22.70
08/20/87	1945	10.65	286.50	5.66	90.40	0.03	23.81
08/20/87	2000	11.09	299.40	6.89	91.70	0.03	24.53
08/20/87	2015	8.13	311.00	10.43	91.80	0.03	24.54
08/20/87	2030	5.88	335.60	10.02	91.80	0.03	24.53
08/20/87	2045	6.93	335.10	4.09	90.40	0.03	24.53
08/20/87	2100	5.52	355.70	7.64	88.10	0.03	23.89
08/20/87	2115	4.83	353.00	4.50	85.60	0.03	24.76

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/20/87	2130	4.77	338.60	7.24	84.40	0.03	24.79
08/20/87	2145	6.21	339.90	2.87	84.70	0.03	24.80
08/20/87	2200	3.72	304.20	14.62	82.60	0.03	24.79
08/20/87	2215	2.81	299.20	15.03	83.50	0.03	24.79
08/20/87	2230	6.12	304.20	3.62	84.30	0.03	24.79
08/20/87	2245	5.92	13.15	2.05	83.30	0.03	24.03
08/20/87	2300	10.98	38.09	4.79	81.70	0.03	22.47
08/20/87	2315	9.82	34.33	3.21	79.80	0.03	23.90
08/20/87	2330	5.87	357.40	4.38	79.90	0.03	24.81
08/20/87	2345	6.86	26.00	10.67	80.70	0.03	24.81
08/21/87	0	6.46	47.20	3 62	79.20	0.03	24.81
08/21/87	15	4.70	58.01	5.20	77.40	0.03	24.83
08/21/87	30	4.29	19.16	5.13	77.60	0.03	24.84
08/21/87	45	5.83	37.19	3.97	76.70	0.03	24.84
08/21/87	100	5.05	69.56	9.51	75.50	0.03	24.84
08/21/87	115	5.52	70.60	3.63	75.30	0.03	24.84
08/21/87	130	9.00	108.30	1.99	74.10	0.03	24.84
08/21/87	145	10.12	115.80	3.15	73.70	0.03	24.84
08/21/87	200	8.18	124.50	14.99	73.50	0.03	24.84
08/21/87	215	4.41	161.70	23.27	72.80	0.03	24.84
08/21/87	230	4.72	260.90	5.20	71.80	0.03	24.48
08/21/87	245	4.04	228.70	4.04	72.40	0.03	23.70
08/21/87	300	3.51	198.00	4.04	72.80	0.03	23.72
08/21/87	315	4.41	197.30	5.55	72.90	0.03	24.80
08/21/87	330	5.25	197.70	3.22	72.90	0.03	24.81
08/21/87	345	6.47	201.00	3.97	72.50	0.03	24.81
08/21/87	400	7.62	189.10	2.40	72.30	0.03	24.80
08/21/87	415	7.68	181.20	3.22	71.50	0.03	24.80
08/21/87	430	7.12	167.90	4.73	72.40	0.03	24.80
08/21/87	445	9.73	152.60	1.99	70.40	0.03	24.78
08/21/87	500	8.12	155.90	1.58	68.55	0.03	24.74
08/21/87	515	7.45	157.80	5.89	69.53	0.03	24.23
08/21/87	530	7.10	159.60	0.41	69.49	0.03	23.14
08/21/87	545	7.96	154.10	2.74	66.96	0.03	22.89
08/21/87	600	8.66	177.30	1.58	68.90	0.03	22.72
08/21/87	615	7.62	183.40	2.40	68.86	0.03	22.64
08/21/87	630	8.27	182.20	3.15	68.36	0.03	22.45
08/21/87	645	8.30	191.80	3.56	67.33	0.03	22.40
08/21/87	700	8.03	187.60	2.06	67.12	0.03	22.26
08/21/87	715	8.07	185.00	2.06	66.99	0.03	22.27
08/21/87	730	11.60	170.40	1.65	67.34	0.03	22.30
08/21/87	745	11.83	178.60	1.23	67.04	0.03	22.31
08/21/87	800	8.48	196.10	8.29	66.05	0.03	22.17
08/21/87	815	5.14	215.80	5.96	64.48	0.03	22.87
08/21/87	830	3.96	125.90	12.61	62.93	0.03	24.23
08/21/87	845	4.63	127.20	3.56	62.91	0.03	24.52

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/21/87	900	6.63	148.50	2.40	64.26	0.03	24.30
08/21/87	915	5.43	187.50	3.63	65.24	0.03	24.22
08/21/87	930	3.25	182.70	10.28	65.84	0.03	24.25
08/21/87	945	5.28	200.10	2.06	67.58	0.03	24.19
08/21/87	1000	5.62	197.80	3.63	68.31	0.03	23.76
08/21/87	1015	5.56	189.00	5.21	69.61	0.03	23.61
08/21/87	1030	6.61	193.00	5.96	70.70	0.03	23.69
08/21/87	1045	6.37	200.00	3.29	71.40	0.03	23.84
08/21/87	1100	6.30	195.10	6.03	72.70	0.03	23.88
08/21/87	1115	5.58	210.60	7.19	74.00	0.03	24.07
08/21/87	1130	5.27	196.00	7.60	76.10	0.03	24.37
08/21/87	1145	2.69	176.50	14.23	79.20	0.03	23.99
08/21/87	1200	2.39	112.60	37.32	81.80	0.03	24.26
08/21/87	1215	3.60	110.00	33.07	82.00	0.03	24.77
08/21/87	1230	4.01	49.82	18.98	85.00	0.03	24.87
08/21/87	1245	5.25	31.65	24.08	85.70	0.03	24.90
08/21/87	1300	4.39	27.80	27.20	84.40	0.03	24.90
08/21/87	1315	4.24	317.10	56.23	84.20	0.03	24.90
08/21/87	1330	4.55	39.24	38.98	85.10	0.03	24.91
08/21/87	1345	8.76	27.05	7.63	84.90	0.03	24.90
08/21/87	1400	10.15	43.78	13.55	85.00	0.03	24.90
08/21/87	1415	7.34	40.91	12.74	84.70	0.03	24.90
08/21/87	1430	7.20	13.34	20.98	84.50	0.03	24.90
08/21/87	1445	10.01	24.34	8.38	84.40	0.03	23.33
08/21/87	1500	11.19	34.13	7.63	84.40	0.03	21.40
08/21/87	1515	8.41	21.52	11.93	84.30	0.03	21.81
08/21/87	1530	7.79	3.79	11.93	84.50	0.03	21.08
08/21/87	1545	12.23	27.46	6.82	85.00	0.03	20.77
08/21/87	1600	13.27	30.08	6.41	85.00	0.03	20.58
08/21/87	1615	11.41	30.68	10.36	85.40	0.03	20.47
08/21/87	1630	12.56	47.57	16.64	86.00	0.03	20.72
08/21/87	1645	9.18	30.46	11.52	85.30	0.03	20.79
08/21/87	1700	10.75	42.20	11.93	86.40	0.03	20.33
08/21/87	1715	8.37	15.68	12.68	84.30	0.03	20.26
08/21/87	1730	7.83	30.32	8.80	83.50	0.03	22.28
08/21/87	1745	7.97	33.82	6.00	82.70	0.03	22.89
08/21/87	1800	6.26	16.00	7.58	81.80	0.03	23.14
08/21/87	1815	9.69	283.80	5.94	77.70	0.03	23.08
08/21/87	1830	12.22	303.50	8.33	70.80	0.03	24.46
08/21/87	1845	7.37	318.40	7.17	70.20	0.03	24.94
08/21/87	1900	3.33	271.30	9.09	70.60	0.03	24.95
08/21/87	1915	5.23	291.30	9.09	70.40	0.03	24.95
08/21/87	1930	6.68	336.60	9.10	69.77	0.03	23.96
08/21/87	1945	5.44	6.66	6.77	70.50	0.03	22.79
08/21/87	2000	6.26	344.20	7.53	71.10	0.03	22.26
08/21/87	2015	5.08	350.30	10.74	70.90	0.03	21.96

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08/21/87	2030	7.76	319.80	7.60	70.20	0.03	21.67
08/21/87	2045	6.67	304.10	5.61	68.46	0.03	22.42
08/21/87	2100	4.36	294.60	9.10	67.34	0.03	23.46
08/21/87	2115	1.07	301.60	24.78	67.26	0.03	23.06
08/21/87	2130	3.11	114.90	3.22	67.43	0.03	22.66
08/21/87	2145	3.11	71.40	2.46	66.85	0.03	22.56
08/21/87	2200	2.68	33.34	3.63	66.75	0.03	22.75
08/21/87	2215	3.32	42.34	7.12	66.56	0.03	22.89
08/21/87	2230	5.29	88.80	4.79	65.74	0.03	22.71
08/21/87	2245	6.27	100.50	3.22	65.22	0.03	22.61
08/21/87	2300	5.87	110.20	2.81	65.29	0.03	22.50
08/21/87	2315	5.87	103.00	5.14	65.24	0.03	22.50
08/21/87	2330	7.38	115.10	3.22	64.65	0.03	22.67
08/21/87	2345	5.98	141.40	14.59	64.67	0.03	22.83
08/22/87	0	6.77	160.40	4.80	64.72	0.03	22.81
08/22/87	15	6.21	151.60	4.38	65.29	0.03	22.60
08/22/87	30	4.89	243.90	27.89	65.59	0.03	22.46
08/22/87	45	7.05	317.60	2.81	65.21	0.03	22.45
08/22/87	100	6.54	326.20	3.56	63.57	0.05	22.86
08/22/87	115	3.95	344.70	9.05	62.08	0.11	23.12
08/22/87	130	1.77	24.67	16.18	61.52	0.12	23.21
08/22/87	145	2.96	2.40	12.61	61.76	0.13	23.19
08/22/87	200	4.27	64.88	13.78	61.74	0.19	23.23
08/22/87	215	7.65	103.80	8.29	61.63	0.28	23.16
08/22/87	230	11.62	118.00	2.40	61.70	0.34	23.12
08/22/87	245	9.67	118.20	3.98	61.26	0.41	23.07
08/22/87	300	9.43	113.20	4.73	60.92	0.48	23.07
08/22/87	315	3.03	82.90	21.60	60.68	0.51	23.12
08/22/87	330	1.74	61.17	12.14	60.73	0.51	23.08
08/22/87	345	1.69	158.40	12.55	60.81	0.52	22.99
08/22/87	400	4.45	148.50	16.11	61.00	0.54	22.92
08/22/87	415	2.22	193.80	25.09	60.72	0.58	22.72
08/22/87	430	4.66	144.70	6.72	60.62	0.64	22.64
08/22/87	445	9.08	137.80	4.32	60.93	0.66	22.63
08/22/87	500	14.59	150.50	9.05	60.93	0.68	22.59
08/22/87	515	6.92	231.60	16.52	60.73	0.74	22.72
08/22/87	530	4.76	165.40	14.95	60.33	0.77	22.90
08/22/87	545	11.53	144.70	5.14	60.32	0.78	22.88
08/22/87	600	10.83	131.30	19.27	60.23	0.79	22.98
08/22/87	615	4.68	240.50	15.36	60.31	0.79	23.11
08/22/87	630	4.53	229.40	22.84	60.76	0.79	23.21
08/22/87	645	5.00	165.50	22.01	61.14	0.79	23.13
08/22/87	700	5.29	148.20	22.01	61.24	0.79	23.11
08/22/87	715	7.73	142.10	5.90	61.28	0.79	23.01
08/22/87	730	7.93	135.60	6.72	61.28	0.79	22.97
08/22/87	745	7.35	144.80	12.62	61.00	0.79	23.05

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08/22/87	800	6.66	141.20	7.54	60.38	0.79	22.97
08/22/87	815	5.95	121.60	8.30	59.95	0.79	23.21
08/22/87	830	3.86	93.30	5.90	59.84	0.79	23.32
08/22/87	845	3.31	94.40	8.71	59.95	0.79	23.31
08/22/87	900	3.55	113.50	15.36	60.35	0.79	23.31
08/22/87	915	3.62	140.10	6.31	60.72	0.79	23.20
08/22/87	930	3.56	161.20	6.72	61.54	0.79	23.34
08/22/87	945	2.93	171.60	23.24	61.56	0.79	23.43
08/22/87	1000	2.48	147.90	15.35	62.36	0.79	23.40
08/22/87	1015	4.71	143.50	7.20	62.49	0.79	23.49
08/22/87	1030	6.78	147.80	7.13	62.71	0.79	23.30
08/22/87	1045	8.41	127.90	9.11	63.83	0.79	23.37
08/22/87	1100	9.51	129.30	6.78	64.61	0.79	23.75
08/22/87	1115	11.67	121.60	6.37	64.49	0.79	25.01
08/22/87	1130	10.22	125.10	5.20	64.81	0.79	25.03
08/22/87	1145	10.93	114.60	3.22	64.68	0.79	25.04
08/22/87	1200	11.25	118.80	4.79	64.80	0.79	25.04
08/22/87	1215	11.57	126.10	6.78	65.48	0.79	25.05
08/22/87	1230	12.37	114.70	6.37	65.17	0.79	25.06
08/22/87	1245	12.05	115.80	4.79	64.68	0.79	25.06
08/22/87	1300	12.98	118.80	4.38	64.29	0.79	24.91
08/22/87	1315	10.94	122.50	5.21	64.39	0.79	23.90
08/22/87	1330	11.12	123.90	5.55	64.98	0.79	23.38
08/22/87	1345	14.56	112.20	7.12	64.03	0.79	23.31
08/22/87	1400	16.48	106.60	5.55	63.78	0.79	23.26
08/22/87	1415	18.57	105.30	4.38	63.74	0.79	23.21
08/22/87	1430	17.36	102.80	4.38	63.94	0.79	23.14
08/22/87	1445	16.13	101.00	4.04	64.83	0.79	23.13
08/22/87	1500	16.99	99.60	4.04	64.68	0.79	23.14
08/22/87	1515	16.15	99.10	6.78	65.23	0.79	23.14
08/22/87	1530	18.30	94.50	6.78	65.18	0.79	23.40
08/22/87	1545	19.52	100.80	4.04	64.78	0.79	23.42
08/22/87	1600	16.85	96.90	5.55	64.57	0.79	23.31
08/22/87	1615	16.19	93.10	5.96	64.21	0.79	23.18
08/22/87	1630	16.28	95.00	4.38	64.33	0.79	23.07
08/22/87	1645	16.95	99.10	4.38	63.41	0.79	23.03
08/22/87	1700	14.36	89.20	4.80	62.89	0.79	23.30
08/22/87	1715	12.06	89.70	5.21	62.52	0.79	23.36
08/22/87	1730	6.67	97.20	10.28	60.28	0.81	23.98
08/22/87	1745	6.21	92.40	7.13	58.18	0.89	25.15
08/22/87	1800	7.86	46.71	2.81	56.70	0.95	25.15
08/22/87	1815	7.67	43.93	11.04	56.00	0.98	25.15
08/22/87	1830	9.51	70.20	5.55	56.54	0.99	25.15
08/22/87	1845	6.87	59.29	8.30	56.88	1.00	25.15
08/22/87	1900	8.43	65.19	4.39	56.98	1.00	25.15
08/22/87	1915	11.05	72.90	4.73	56.30	0.00	25.15

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08/22/87	1930	7.84	68.93	5.14	55.99	0.00	25.16
08/22/87	1945	8.44	70.00	5.49	55.99	0.00	25.16
08/22/87	2000	7.98	62.95	7.48	55.68	0.01	25.17
08/22/87	2015	8.65	44.48	3.16	55.17	0.01	25.17
08/22/87	2030	7.74	49.27	8.64	54.76	0.01	25.17
08/22/87	2045	7.78	45.80	5.90	54.79	0.01	25.17
08/22/87	2100	8.50	54.76	7.89	54.59	0.01	25.18
08/22/87	2115	7.80	51.58	16.54	54.33	0.01	25.18
08/22/87	2130	8.16	54.43	5.49	54.03	0.02	25.18
08/22/87	2145	7.97	56.11	5.90	53.43	0.02	25.18
08/22/87	2200	7.21	57.99	6.31	53.38	0.02	25.18
08/22/87	2215	7.16	66.61	4.74	53.54	0.02	25.18
08/22/87	2230	7.58	55.89	5.90	53.30	0.02	25.18
08/22/87	2245	7.33	69.80	3.57	53.20	0.02	25.19
08/22/87	2300	7.96	73.10	5.08	53.03	0.02	25.19
08/22/87	2315	8.73	82.40	3.91	53.16	0.02	25.19
08/22/87	2330	7.27	86.20	7.48	53.05	0.02	25.19
08/22/87	2345	7.83	92.40	4.32	53.09	0.02	25.19
08/23/87	0	8.24	95.90	6.25	53.17	0.02	25.20
08/23/87	15	9.68	99.10	4.74	52.95	0.02	25.20
08/23/87	30	10.26	104.20	3.16	53.05	0.02	25.20
08/23/87	45	10.80	101.80	4.32	52.94	0.02	25.20
08/23/87	100	10.33	103.20	4.32	52.78	0.03	25.20
08/23/87	115	8.66	99.40	6.25	52.76	0.03	25.20
08/23/87	130	9.06	97.00	5.08	52.75	0.03	25.19
08/23/87	145	8.21	94.00	5.08	52.67	0.03	25.19
08/23/87	200	9.10	97.50	3.91	52.66	0.03	25.19
08/23/87	215	9.02	100.80	7.07	52.65	0.03	25.19
08/23/87	230	10.15	102.30	4.67	52.67	0.04	25.19
08/23/87	245	10.03	108.70	3.09	52.70	0.04	25.19
08/23/87	300	10.59	113.40	4.67	52.88	0.04	25.19
08/23/87	315	11.33	119.20	4.67	52.87	0.04	25.18
08/23/87	330	11.43	119.40	4.67	52.90	0.04	25.17
08/23/87	345	9.96	120.90	4.67	52.99	0.04	25.16
08/23/87	400	9.89	117.60	4.26	53.08	0.04	25.16
08/23/87	415	8.25	123.00	4.33	53.16	0.04	25.16
08/23/87	430	8.41	125.40	4.74	53.29	0.04	25.16
08/23/87	445	7.51	124.70	3.57	53.47	0.04	25.16
08/23/87	500	7.01	126.50	5.15	53.75	0.04	25.15
08/23/87	515	7.34	127.10	4.74	53.92	0.04	25.15
08/23/87	530	5.83	128.10	12.15	54.05	0.04	25.14
08/23/87	545	3.44	127.30	10.98	54.17	0.04	25.14
08/23/87	600	3.60	146.90	10.23	54.34	0.04	25.14
08/23/87	615	4.71	149.70	4.32	54.44	0.04	25.14
08/23/87	630	3.38	172.30	14.96	54.70	0.04	25.14
08/23/87	645	1.35	171.90	9.06	54.90	0.04	25.13

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/23/87	700	1.30	93.40	7.48	54.84	0.04	25.13
08/23/87	715	1.62	114.80	15.31	54.87	0.04	25.13
08/23/87	730	2.08	93.80	13.38	54.95	0.04	25.13
08/23/87	745	3.77	124.60	5.08	54.93	0.04	25.13
08/23/87	800	5.42	109.50	7.48	54.49	0.04	25.13
08/23/87	815	5.71	121.60	5.90	54.01	0.04	25.13
08/23/87	830	5.34	126.90	9.06	53.94	0.04	25.13
08/23/87	845	3.51	143.50	12.15	54.09	0.04	25.13
08/23/87	900	3.22	137.80	23.13	54.20	0.04	25.13
08/23/87	915	1.39	276.10	18.05	54.49	0.04	25.13
08/23/87	930	1.71	298.70	7.07	54.84	0.04	25.13
08/23/87	945	3.64	312.30	6.72	54.74	0.04	25.13
08/23/87	1000	6.74	325.70	2.75	54.53	0.04	25.13
08/23/87	1015	8.16	323.20	6.66	54.02	0.04	25.13
08/23/87	1030	8.64	321.00	3.57	53.36	0.04	25.13
08/23/87	1045	7.36	327.20	4.74	53.40	0.04	25.13
08/23/87	1100	8.56	317.60	3.91	53.19	0.04	25.13
08/23/87	1115	8.91	320.70	3.91	52.94	0.04	25.13
08/23/87	1130	7.95	327.50	5.83	53.11	0.04	25.13
08/23/87	1145	7.49	327.50	11.39	53.16	0.04	25.13
08/23/87	1200	7.49	320.50	7.48	53.20	0.04	25.13
08/23/87	1215	6.34	316.20	6.66	53.41	0.04	25.13
08/23/87	1230	6.06	320.40	5.08	53.58	0.04	25.13
08/23/87	1245	5.32	312.10	7.48	53.92	0.04	25.13
08/23/87	1300	3.42	314.40	12.14	54.45	0.04	25.13
08/23/87	1315	3.02	313.60	15.30	54.99	0.04	25.13
08/23/87	1330	2.49	278.50	20.44	55.12	0.04	25.13
08/23/87	1345	1.70	218.40	16.12	55.24	0.04	25.13
08/23/87	1400	1.03	235.70	14.13	56.21	0.04	25.13
08/23/87	1415	2.01	218.20	15.36	56.43	0.04	25.12
08/23/87	1430	2.54	248.20	25.10	56.60	0.04	25.12
08/23/87	1445	2.46	298.70	35.72	57.31	0.04	25.12
08/23/87	1500	1.84	17.22	20.43	57.77	0.04	25.10
08/23/87	1515	1.69	27.38	29.06	57.73	0.04	25.09
08/23/87	1530	1.51	330.90	27.83	57.50	0.04	25.10
08/23/87	1545	3.49	294.30	12.61	57.97	0.04	25.09
08/23/87	1600	5.17	292.70	15.76	58.87	0.04	25.08
08/23/87	1615	5.18	292.80	12.67	59.42	0.04	25.08
08/23/87	1630	5.34	280.20	18.97	59.86	0.04	25.08
08/23/87	1645	4.39	305.00	15.07	60.90	0.04	25.08
08/23/87	1700	5.20	305.90	13.08	61.85	0.04	25.06
08/23/87	1715	4.08	260.30	26.35	62.08	0.04	25.06
08/23/87	1730	3.30	336.20	48.67	62.26	0.04	25.05
08/23/87	1745	3.80	332.00	25.53	62.38	0.04	25.05
08/23/87	1800	6.44	321.20	8.69	61.01	0.04	25.04
08/23/87	1815	6.68	319.10	7.60	60.51	0.04	25.03

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/23/87	1830	7.09	322.90	10.34	60.51	0.04	25.04
08/23/87	1845	9.69	327.30	3.15	59.78	0.04	25.04
08/23/87	1900	10.60	327.10	4.04	59.06	0.04	25.03
08/23/87	1915	9.63	324.90	4.79	58.98	0.04	25.03
08/23/87	1930	9.74	327.10	4.80	58.95	0.04	25.03
08/23/87	1945	10.05	325.10	4.39	58.78	0.04	25.03
08/23/87	2000	8.80	321.90	4.80	58.50	0.04	25.03
08/23/87	2015	7.52	322.30	5.14	58.07	0.04	25.03
08/23/87	2030	6.82	322.60	3.98	57.47	0.05	25.03
08/23/87	2045	8.04	317.30	5.14	57.15	0.05	25.03
08/23/87	2100	8.40	319.80	5.14	56.92	0.05	25.03
08/23/87	2115	8.15	330.90	3.98	56.58	0.07	25.03
08/23/87	2130	7.31	339.30	6.31	56.19	0.09	25.03
08/23/87	2145	7.94	335.60	3.15	55.67	0.10	25.03
08/23/87	2200	7.10	338.70	2.74	55.45	0.13	25.03
08/23/87	2215	4.76	337.80	3.98	55.26	0.16	25.03
08/23/87	2230	6.19	335.30	4.32	55.08	0.18	25.03
08/23/87	2245	4.88	324.30	12.55	55.08	0.19	25.03
08/23/87	2300	3.31	298.50	7.07	55.10	0.20	25.04
08/23/87	2315	3.17	299.70	5.08	55.05	0.21	25.04
08/23/87	2330	2.66	280.00	4.32	55.16	0.23	25.04
08/23/87	2345	3.20	266.10	4.73	55.11	0.26	25.04
08/24/87	0	2.79	257.40	3.57	55.06	0.29	25.04
08/24/87	15	2.90	240.10	5.08	55.12	0.31	25.03
08/24/87	30	2.74	223.40	8.23	55.17	0.31	25.03
08/24/87	45	3.59	183.30	4.32	55.30	0.31	25.03
08/24/87	100	2.66	182.40	12.56	55.51	0.31	25.02
08/24/87	115	2.11	169.30	6.66	55.69	0.31	25.01
08/24/87	130	1.58	188.10	5.83	55.84	0.31	25.01
08/24/87	145	2.26	238.90	19.62	55.92	0.32	25.00
08/24/87	200	2.77	276.40	3.16	55.75	0.33	25.00
08/24/87	215	1.32	276.40	12.56	55.72	0.33	25.00
08/24/87	230	1.96	274.40	3.91	55.75	0.33	25.00
08/24/87	245	1.23	305.70	11.39	55.83	0.33	24.99
08/24/87	300	1.17	32.16	4.32	55.85	0.33	24.98
08/24/87	315	2.28	73.60	3.16	55.89	0.33	24.98
08/24/87	330	4.16	78.90	9.88	55.92	0.33	24.98
08/24/87	345	3.08	94.50	19.28	56.01	0.33	24.97
08/24/87	400	6.34	143.30	5.15	55.81	0.33	24.96
08/24/87	415	4.98	144.20	10.22	55.13	0.33	24.96
08/24/87	430	3.57	122.40	7.89	53.99	0.33	24.95
08/24/87	445	4.27	143.00	1.58	53.49	0.33	24.96
08/24/87	500	4.85	121.80	3.57	53.84	0.33	24.96
08/24/87	515	5.50	100.80	3.57	53.83	0.33	24.95
08/24/87	530	6.15	109.30	1.99	53.95	0.33	24.95
08/24/87	545	4.62	106.20	5.08	53.18	0.33	24.95

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FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/24/87	600	2.24	31.85	5.49	52.72	0.33	24.95
08/24/87	615	1.59	49.85	14.14	52.89	0.33	24.95
08/24/87	630	1.51	46.16	14.90	53.17	0.33	24.95
08/24/87	645	1.70	32.82	13.38	53.21	0.33	24.95
08/24/87	700	1.20	20.81	13.80	53.39	0.33	24.95
08/24/87	715	0.91	5.34	0.76	53.50	0.33	24.95
08/24/87	730	2.21	336.70	4.74	53.41	0.33	24.95
08/24/87	745	3.29	326.40	5.08	53.01	0.33	24.94
08/24/87	800	2.81	324.30	7.48	52.92	0.33	24.94
08/24/87	815	1.90	330.00	7.48	53.35	0.33	24.94
08/24/87	830	3.34	334.30	8.99	53.87	0.33	24.93
08/24/87	845	5.07	330.50	11.74	54:03	0.33	24.93
08/24/87	900	3.07	341.30	6.31	54.12	0.33	24.93
08/24/87	915	2.21	343.00	9.81	54.28	0.33	24.93
08/24/87	930	2.08	317.60	7.89	54.49	0.33	24.93
08/24/87	945	3.70	297.00	7.89	54.78	0.33	24.93
08/24/87	1000	3.34	292.80	6.66	55.10	0.33	24.93
08/24/87	1015	3.69	317.60	7.07	55.30	0.33	24.93
08/24/87	1030	4.39	326.50	6.72	55.45	0.33	24.93
08/24/87	1045	5.20	334.80	8.64	55.69	0.33	24.93
08/24/87	1100	5.31	332.70	7.48	55.77	0.33	24.93
08/24/87	1115	4.62	338.30	11.80	56.11	0.33	24.93
08/24/87	1130	5.53	337.90	5.90	56.43	0.33	24.91
08/24/87	1145	5.42	322.70	15.36	56.56	0.33	24.91
08/24/87	1200	5.00	343.30	16.11	56.96	0.33	24.91
08/24/87	1215	3.78	344.30	17.28	57.30	0.33	24.91
08/24/87	1230	4.03	347.00	10.63	57.08	0.33	24.91
08/24/87	1245	3.91	0.08	11.04	57.17	0.33	24.91
08/24/87	1300	2.98	28.80	19.67	58.35	0.33	24.91
08/24/87	1315	2.21	32.16	19.33	59.64	0.33	24.91
08/24/87	1330	1.71	358.70	23.23	60.06	0.33	24.91
08/24/87	1345	1.70	332.40	36.92	60.20	0.33	24.91
08/24/87	1400	2.89	39.04	56.16	60.84	0.33	24.90
08/24/87	1415	2.46	350.20	54.66	61.71	0.33	24.90
08/24/87	1430	3.55	127.30	18.21	61.63	0.33	24.89
08/24/87	1445	3.07	123.40	36.22	62.32	0.33	24.89
08/24/87	1500	2.85	196.90	26.42	63.44	0.33	24.88
08/24/87	1515	3.12	216.00	50.70	64.42	0.33	24.87
08/24/87	1530	2.78	144.30	36.18	66.12	0.33	24.85
08/24/87	1545	2.63	138.10	40.48	65.41	0.33	24.85
08/24/87	1600	2.90	249.60	39.38	66.08	0.33	24.85
08/24/87	1615	5.03	349.50	12.65	64.94	0.33	24.84
08/24/87	1630	4.93	345.60	17.37	65.01	0.33	24.84
08/24/87	1645	5.39	352.10	9.91	65.38	0.33	24.84
08/24/87	1700	5.81	355.70	32.27	65.62	0.33	24.84
08/24/87	1715	5.62	2.06	18.53	66.35	0.33	24.83

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/24/87	1730	7.03	9.08	11.90	66.33	0.33	24.81
08/24/87	1745	5.98	27.83	11.14	67.70	0.33	24.80
08/24/87	1800	7.82	3.68	25.97	67.58	0.33	24.80
08/24/87	1815	6.75	353.20	7.93	67.33	0.33	24.80
08/24/87	1830	7.15	340.00	5.61	66.73	0.33	24.80
08/24/87	1845	7.81	332.80	8.69	66.12	0.33	24.80
08/24/87	1900	12.81	314.30	4.79	65.55	0.33	24.81
08/24/87	1915	14.60	320.10	2.74	62.54	0.34	24.82
08/24/87	1930	10.29	325.30	5.20	61.26	0.37	24.82
08/24/87	1945	9.92	310.50	4.04	60.46	0.41	24.82
08/24/87	2000	5.70	345.10	2.40	60.05	0.48	24.82
08/24/87	2015	4.10	43.20	17.33	60.14	0.50	24.81
08/24/87	2030	10.19	111.20	3.22	60.93	0.50	24.80
08/24/87	2045	8.29	104.40	17.33	61.35	0.50	24.80
08/24/87	2100	3.15	23.20	19.32	62.28	0.50	24.80
08/24/87	2115	1.93	325.80	43.99	62.00	0.50	24.81
08/24/87	2130	3.50	343.30	4.38	61.81	0.50	24.82
08/24/87	2145	5.02	313.40	3.98	61.22	0.50	24.82
08/24/87	2200	3.96	299.70	8.29	60.88	0.50	24.82
08/24/87	2215	3.04	310.60	6.31	60.88	0.50	24.83
08/24/87	2230	1.40	331.10	25.50	60.92	0.50	24.83
08/24/87	2245	1.94	341.00	8.29	61.02	0.50	24.83
08/24/87	2300	1.74	351.20	14.53	61.05	0.50	24.84
08/24/87	2315	2.17	37.64	4.73	60.91	0.50	24.85
08/24/87	2330	1.94	37.08	1.58	60.89	0.50	24.85
08/24/87	2345	2.34	94.90	3.15	60.75	0.50	24.85
08/25/87	0	2.50	101.00	7.13	61.21	0.50	24.85
08/25/87	15	1.42	62.76	35.72	60.90	0.50	24.85
08/25/87	30	1.74	304.90	7.89	60.43	0.50	24.85
08/25/87	45	3.82	297.20	16.12	60.81	0.50	24.85
08/25/87	100	3.32	197.50	2.40	58.79	0.50	24.85
08/25/87	115	5.30	195.10	4.39	60.36	0.50	24.86
08/25/87	130	3.47	191.10	5.56	60.24	0.50	24.86
08/25/87	145	2.73	238.00	7.54	60.51	0.50	24.86
08/25/87	200	3.75	270.00	3.15	60.63	0.50	24.86
08/25/87	215	4.08	246.80	1.65	59.56	0.50	24.86
08/25/87	230	4.28	219.40	2.81	58.61	0.50	24.86
08/25/87	245	4.84	221.40	3.57	59.39	0.50	24.86
08/25/87	300	4.01	238.20	5.14	58.84	0.50	24.85
08/25/87	315	4.17	233.70	3.98	58.22	0.50	24.85
08/25/87	330	4.97	209.40	2.74	57.90	0.50	24.85
08/25/87	345	4.77	209.10	1.58	58.62	0.50	24.85
08/25/87	400	3.87	206.60	4.73	58.70	0.50	24.85
08/25/87	415	4.38	203.40	2.40	58.77	0.50	24.85
08/25/87	430	4.55	203.70	1.17	58.79	0.50	24.84
08/25/87	445	4.92	187.00	2.74	58.58	0.50	24.84

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/25/87	500	3.89	212.20	10.22	58.33	0.50	24.84
08/25/87	515	3.47	200.70	7.07	57.65	0.50	24.84
08/25/87	530	5.25	179.80	1.99	57.46	0.50	24.84
08/25/87	545	3.68	164.40	18.46	57.09	0.50	24.84
08/25/87	600	2.38	200.80	4.74	56.45	0.50	24.84
08/25/87	615	3.33	224.00	4.32	56.67	0.50	24.84
08/25/87	630	4.56	249.10	3.57	56.15	0.50	24.84
08/25/87	645	3.93	240.80	3.50	55.66	0.50	24.84
08/25/87	700	3.03	219.70	3.91	55.84	0.50	24.84
08/25/87	715	2.71	227.10	12.56	55.96	0.50	24.84
08/25/87	730	2.05	310.90	7.48	55.92	0.50	24.84
08/25/87	745	1.68	2.15	11.39	55.83	0.51	24.84
08/25/87	800	2.81	346.50	11.39	55.87	0.51	24.85
08/25/87	815	2.94	346.70	7.89	56.82	0.51	24.85
08/25/87	830	2.69	26.70	5.49	57.03	0.51	24.86
08/25/87	845	2.26	21.28	14.96	57.13	0.51	24.87
08/25/87	900	2.97	352.90	12.97	57.14	0.51	24.87
08/25/87	915	2.64	353.80	4.73	57.21	0.51	24.87
08/25/87	930	3.57	342.00	7.82	57.28	0.51	24.88
08/25/87	945	2.03	316.40	8.99	57.49	0.51	24.88
08/25/87	1000	1.00	347.00	16.53	57.95	0.51	24.88
08/25/87	1015	0.65	305.50	18.86	58.39	0.51	24.88
08/25/87	1030	1.52	215.30	8.23	58.32	0.51	24.88
08/25/87	1045	3.74	225.80	11.04	58.69	0.51	24.88
08/25/87	1100	4.26	232.20	7.47	59.27	0.51	24.88
08/25/87	1115	4.30	231.80	7.47	60.83	0.51	24.88
08/25/87	1130	3.79	191.50	13.02	62.13	0.51	24.89
08/25/87	1145	3.53	179.70	16.57	63.12	0.51	24.89
08/25/87	1200	3.43	186.20	10.67	64.18	0.51	24.88
08/25/87	1215	5.00	137.80	14.22	64.73	0.51	24.88
08/25/87	1230	3.74	161.70	52.64	65.18	0.51	24.88
08/25/87	1245	5.79	145.90	19.34	66.28	0.51	24.88
08/25/87	1300	6.44	123.70	25.15	66.70	0.51	24.88
08/25/87	1315	4.68	171.70	27.53	67.03	0.51	24.88
08/25/87	1330	4.95	169.10	33.88	67.71	0.51	24.88
08/25/87	1345	4.92	156.30	37.77	68.35	0.51	24.88
08/25/87	1400	5.44	116.00	27.59	69.44	0.51	24.88
08/25/87	1415	6.65	122.10	13.86	69.12	0.51	24.88
08/25/87	1430	7.06	138.00	27.18	70.10	0.51	24.87
08/25/87	1445	6.61	152.10	19.39	69.93	0.51	24.86
08/25/87	1500	8.40	116.30	8.40	70.00	0.51	24.86
08/25/87	1515	10.81	126.20	14.27	70.00	0.51	24.87
08/25/87	1530	8.52	121.90	14.62	70.80	0.51	24.86
08/25/87	1545	10.33	140.40	13.46	71.60	0.51	24.85
08/25/87	1600	9.04	120.90	25.21	72.60	0.51	24.85
08/25/87	1615	10.18	107.70	17.42	73.10	0.51	24.84

RMA METEOROLOGICAL DATA
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07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/25/87	1630	8.22	113.30	15.43	72.90	0.51	24.84
08/25/87	1645	6.26	77.10	38.59	74.40	0.51	24.83
08/25/87	1700	7.42	62.85	8.74	73.80	0.51	24.83
08/25/87	1715	6.68	80.80	18.58	75.20	0.51	24.83
08/25/87	1730	6.86	74.10	19.40	74.60	0.51	24.83
08/25/87	1745	7.63	73.80	45.62	74.90	0.51	24.82
08/25/87	1800	5.69	63.32	8.40	75.10	0.51	24.81
08/25/87	1815	6.88	96.30	18.92	74.30	0.51	24.82
08/25/87	1830	6.47	81.90	9.91	73.90	0.51	24.82
08/25/87	1845	8.98	85.10	4.03	73.00	0.51	24.82
08/25/87	1900	9.87	79.70	5.54	72.70	0.51	24.78
08/25/87	1915	8.35	97.10	4.86	72.40	0.51	24.77
08/25/87	1930	10.78	137.70	6.77	71.10	0.51	24.77
08/25/87	1945	18.35	162.30	3.97	67.26	0.51	24.81
08/25/87	2000	21.07	161.30	3.63	64.31	0.51	24.82
08/25/87	2015	14.13	172.30	7.94	63.87	0.51	24.83
08/25/87	2030	18.16	254.10	2.81	61.41	0.54	24.87
08/25/87	2045	13.82	207.80	4.38	57.64	0.77	24.88
08/25/87	2100	17.20	161.80	2.40	57.16	0.79	24.87
08/25/87	2115	16.31	141.80	4.73	58.72	0.81	24.86
08/25/87	2130	8.89	116.40	9.05	58.19	0.82	24.87
08/25/87	2145	3.68	37.61	20.84	57.99	0.82	24.88
08/25/87	2200	5.53	84.90	9.80	58.38	0.82	24.89
08/25/87	2215	7.73	66.38	6.65	57.63	0.82	24.89
08/25/87	2230	6.22	97.60	7.89	57.04	0.82	24.89
08/25/87	2245	4.57	95.10	5.49	57.22	0.82	24.90
08/25/87	2300	2.09	35.67	18.04	57.02	0.82	24.92
08/25/87	2315	4.59	355.40	7.89	56.84	0.82	24.93
08/25/87	2330	5.32	355.00	8.99	56.73	0.82	24.94
08/25/87	2345	3.60	27.96	5.08	56.70	0.82	24.94
08/26/87	0	4.56	44.49	3.16	56.78	0.82	24.94
08/26/87	15	2.25	32.07	13.79	56.69	0.82	24.94
08/26/87	30	3.18	36.59	5.56	56.93	0.82	24.94
08/26/87	45	0.93	359.60	13.38	57.02	0.82	24.95
08/26/87	100	3.67	274.90	10.63	57.26	0.82	24.96
08/26/87	115	3.66	297.80	3.16	57.52	0.82	24.96
08/26/87	130	6.49	307.70	3.98	56.88	0.83	24.96
08/26/87	145	6.27	310.80	5.90	55.22	0.85	24.96
08/26/87	200	2.59	270.90	7.89	55.22	0.87	24.98
08/26/87	215	1.41	220.70	19.62	55.22	0.87	24.98
08/26/87	230	3.44	180.40	7.14	55.31	0.88	24.98
08/26/87	245	0.79	155.00	1.17	55.08	0.88	24.98
08/26/87	300	1.49	287.80	3.16	54.86	0.88	24.98
08/26/87	315	3.38	303.10	2.74	54.93	0.88	24.98
08/26/87	330	4.27	299.60	1.99	55.26	0.88	24.98
08/26/87	345	3.59	298.90	10.98	55.49	0.88	24.98

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/26/87	400	2.76	353.20	4.32	55.49	0.88	24.98
08/26/87	415	0.41	3.27	0.34	55.13	0.88	24.97
08/26/87	430	0.59	345.70	16.54	55.00	0.88	24.97
08/26/87	445	2.74	332.90	2.75	55.07	0.88	24.97
08/26/87	500	3.69	335.70	1.92	54.97	0.88	24.97
08/26/87	515	3.46	327.10	5.08	55.12	0.88	24.96
08/26/87	530	3.35	286.70	3.16	55.17	0.88	24.96
08/26/87	545	3.46	298.80	3.91	55.36	0.88	24.96
08/26/87	600	2.75	307.70	5.49	55.36	0.88	24.96
08/26/87	615	3.43	321.60	3.16	55.78	0.88	24.96
08/26/87	630	2.41	343.40	9.40	55.50	0.88	24.96
08/26/87	645	0.78	359.90	12.56	55.43	0.88	24.96
08/26/87	700	1.61	333.80	10.22	55.56	0.88	24.96
08/26/87	715	3.11	336.00	1.17	55.64	0.88	24.96
08/26/87	730	2.46	345.90	5.49	55.67	0.88	24.97
08/26/87	745	1.80	0.72	10.64	55.60	0.88	24.97
08/26/87	800	4.17	339.90	4.32	55.29	0.88	24.97
08/26/87	815	7.20	333.20	5.49	55.04	0.88	24.98
08/26/87	830	7.32	334.90	3.50	54.85	0.88	24.99
08/26/87	845	6.89	352.80	7.07	54.69	0.88	24.99
08/26/87	900	7.22	3.99	5.49	54.15	0.88	24.99
08/26/87	915	6.79	14.55	4.74	53.91	0.88	24.99
08/26/87	930	6.06	10.66	7.82	53.57	0.89	25.01
08/26/87	945	5.87	14.97	5.49	53.14	0.89	25.01
08/26/87	1000	4.56	356.50	7.41	52.89	0.90	25.01
08/26/87	1015	4.60	3.37	7.82	52.81	0.94	25.02
08/26/87	1030	4.93	349.70	10.23	52.79	0.94	25.03
08/26/87	1045	5.35	350.60	9.81	52.53	0.94	25.03
08/26/87	1100	6.58	350.50	8.24	52.34	0.94	25.03
08/26/87	1115	5.52	10.03	6.25	52.32	0.94	25.03
08/26/87	1130	4.78	16.30	7.82	52.64	0.94	25.03
08/26/87	1145	4.22	10.78	9.81	52.85	0.94	25.03
08/26/87	1200	4.90	27.71	8.72	53.52	0.94	25.04
08/26/87	1215	5.65	36.81	5.56	54.14	0.94	25.05
08/26/87	1230	6.54	21.58	5.90	54.20	0.94	25.05
08/26/87	1245	6.82	34.84	16.94	55.44	0.94	25.05
08/26/87	1300	4.83	25.31	8.29	56.86	0.94	25.04
08/26/87	1315	5.74	29.09	5.96	55.94	0.94	25.04
08/26/87	1330	5.19	44.24	14.25	57.15	0.94	25.05
08/26/87	1345	4.68	13.47	14.66	57.56	0.94	25.04
08/26/87	1400	2.88	0.45	26.37	57.79	0.94	25.04
08/26/87	1415	2.31	62.95	36.92	58.48	0.94	25.04
08/26/87	1430	2.82	124.10	26.71	58.92	0.94	25.04
08/26/87	1445	3.30	105.30	25.54	59.74	0.94	25.04
08/26/87	1500	3.18	151.00	25.20	60.24	0.94	25.03
08/26/87	1515	3.38	118.30	57.45	61.00	0.94	25.03

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/26/87	1530	5.44	69.67	20.94	62.74	0.94	25.02
08/26/87	1545	7.05	66.77	14.71	63.09	0.94	25.01
08/26/87	1600	6.10	78.90	24.83	61.91	0.94	25.01
08/26/87	1615	5.23	86.00	16.97	62.37	0.94	25.01
08/26/87	1630	6.16	68.77	14.23	62.86	0.94	25.01
08/26/87	1645	3.73	87.30	58.62	65.20	0.94	25.01
08/26/87	1700	7.49	60.07	12.65	62.73	0.94	24.99
08/26/87	1715	6.68	65.25	15.39	64.23	0.94	24.99
08/26/87	1730	6.60	88.50	20.93	65.00	0.94	24.99
08/26/87	1745	6.42	105.90	13.89	65.34	0.94	24.98
08/26/87	1800	6.98	66.75	16.96	64.42	0.94	24.98
08/26/87	1815	6.35	87.10	7.93	64.40	0.94	24.98
08/26/87	1830	8.48	76.30	13.48	64.28	0.94	24.97
08/26/87	1845	9.43	77.70	5.61	63.55	0.94	24.98
08/26/87	1900	7.48	104.70	15.81	65.18	0.94	24.99
08/26/87	1915	11.85	85.50	4.38	64.27	0.94	24.97
08/26/87	1930	11.02	88.50	7.94	64.00	0.94	24.97
08/26/87	1945	10.88	84.20	5.96	64.62	0.94	24.97
08/26/87	2000	8.97	66.47	10.68	64.35	0.94	24.97
08/26/87	2015	9.53	77.90	3.22	63.66	0.94	24.99
08/26/87	2030	15.29	58.11	5.55	61.37	0.94	24.99
08/26/87	2045	17.50	60.90	4.38	57.79	0.94	24.99
08/26/87	2100	14.84	61.44	3.97	56.30	0.94	25.00
08/26/87	2115	12.96	55.05	7.13	55.65	0.94	25.01
08/26/87	2130	10.63	71.80	5.48	55.19	0.95	25.03
08/26/87	2145	11.42	76.80	5.49	54.78	0.97	25.03
08/26/87	2200	6.96	92.10	7.06	54.42	0.99	25.04
08/26/87	2215	8.10	63.32	7.48	53.73	0.99	25.05
08/26/87	2230	7.46	40.45	7.41	53.47	0.99	25.06
08/26/87	2245	9.16	46.59	4.32	52.80	1.00	25.07
08/26/87	2300	5.63	33.38	9.81	52.34	1.00	25.07
08/26/87	2315	4.16	26.90	6.72	52.66	1.00	25.08
08/26/87	2330	4.83	42.92	9.81	52.48	1.00	25.08
08/26/87	2345	1.56	52.13	10.98	52.14	1.00	25.09
08/27/87	0	1.66	102.90	9.81	52.02	1.00	25.09
08/27/87	15	2.37	19.15	8.24	52.00	1.00	25.10
08/27/87	30	3.14	20.67	5.49	51.93	1.00	25.10
08/27/87	45	0.94	219.20	18.05	51.96	1.00	25.10
08/27/87	100	3.69	164.80	7.07	52.11	1.00	25.10
08/27/87	115	2.84	168.50	2.75	52.08	1.00	25.10
08/27/87	130	3.98	173.80	2.33	52.09	1.00	25.10
08/27/87	145	4.88	186.20	1.99	52.28	1.00	25.10
08/27/87	200	3.62	189.20	5.08	52.41	1.00	25.10
08/27/87	215	2.52	208.00	5.83	52.39	1.00	25.10
08/27/87	230	2.29	218.50	3.57	52.57	1.00	25.10
08/27/87	245	2.32	228.30	6.25	52.74	1.00	25.10

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/27/87	300	2.69	240.20	3.50	52.62	1.00	25.10
08/27/87	315	2.75	221.00	3.16	52.62	1.00	25.10
08/27/87	330	2.46	215.70	4.33	52.48	1.00	25.10
08/27/87	345	2.24	233.00	3.91	52.32	1.00	25.10
08/27/87	400	1.25	214.20	5.49	52.22	1.00	25.10
08/27/87	415	1.02	168.70	10.99	52.04	1.00	25.10
08/27/87	430	2.97	152.30	10.16	52.25	1.00	25.09
08/27/87	445	2.29	119.90	8.65	51.05	1.00	25.09
08/27/87	500	1.51	135.80	11.74	51.23	1.00	25.09
08/27/87	515	3.19	148.30	7.42	51.58	1.00	25.09
08/27/87	530	2.41	138.60	5.84	51.67	1.00	25.09
08/27/87	545	4.14	160.10	3.09	51.94	1.00	25.09
08/27/87	600	5.16	144.40	4.33	51.91	1.00	25.09
08/27/87	615	5.40	157.10	5.49	51.94	1.00	25.09
08/27/87	630	3.81	187.20	1.92	51.53	1.00	25.09
08/27/87	645	3.37	202.80	1.51	51.52	1.00	25.09
08/27/87	700	2.63	205.40	2.68	51.28	1.00	25.09
08/27/87	715	3.04	73.60	11.33	49.88	1.00	25.09
08/27/87	730	4.67	141.90	3.50	50.37	1.00	25.09
08/27/87	745	3.00	140.60	14.15	50.86	1.00	25.09
08/27/87	800	3.08	41.86	2.27	48.61	1.00	25.09
08/27/87	815	3.18	57.06	1.92	48.54	1.00	25.09
08/27/87	830	3.83	80.70	5.01	48.87	1.00	25.09
08/27/87	845	7.03	92.90	3.16	49.15	1.00	25.09
08/27/87	900	6.33	96.90	2.27	49.06	1.00	25.09
08/27/87	915	6.10	104.30	2.68	49.43	1.00	25.10
08/27/87	930	4.28	112.20	3.50	50.00	1.00	25.10
08/27/87	945	4.64	115.70	3.50	50.73	1.00	25.09
08/27/87	1000	5.20	121.70	6.66	51.89	1.00	25.09
08/27/87	1015	5.13	128.40	7.07	52.65	1.00	25.09
08/27/87	1030	7.59	109.90	6.25	53.12	1.00	25.09
08/27/87	1045	7.67	104.20	8.65	53.30	1.00	25.09
08/27/87	1100	7.41	112.00	6.72	54.49	1.00	25.09
08/27/87	1115	6.47	99.50	9.87	54.64	1.00	25.09
08/27/87	1130	5.02	89.00	10.62	55.47	1.00	25.09
08/27/87	1145	5.60	85.40	7.61	56.30	1.00	25.09
08/27/87	1200	6.03	95.30	13.49	57.13	1.00	25.09
08/27/87	1215	3.54	89.20	40.47	57.29	1.00	25.09
08/27/87	1230	1.86	77.80	18.56	58.43	1.00	25.09
08/27/87	1245	3.29	79.50	27.53	58.43	1.00	25.09
08/27/87	1300	3.11	80.40	29.93	58.82	1.00	25.08
08/27/87	1315	2.96	65.44	35.06	59.79	1.00	25.08
08/27/87	1330	3.50	47.88	14.24	60.82	1.00	25.08
08/27/87	1345	5.46	78.70	18.21	61.12	1.00	25.08
08/27/87	1400	5.38	62.68	18.54	61.25	1.00	25.08
08/27/87	1415	4.01	27.65	45.22	62.46	1.00	25.07

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/27/87	1430	3.21	122.90	51.48	63.77	1.00	25.06
08/27/87	1445	5.25	65.36	28.29	63.64	1.00	25.03
08/27/87	1500	4.56	164.50	28.70	63.88	1.00	25.02
08/27/87	1515	3.88	171.90	34.22	65.34	1.00	25.01
08/27/87	1530	4.60	92.80	17.76	65.85	1.00	25.02
08/27/87	1545	5.47	67.39	20.96	66.11	1.00	25.02
08/27/87	1600	6.04	45.99	42.87	65.99	1.00	25.00
08/27/87	1615	5.35	18.90	41.71	66.41	1.00	25.00
08/27/87	1630	6.12	353.00	20.14	65.29	1.00	24.99
08/27/87	1645	6.92	356.80	9.97	66.16	1.00	25.02
08/27/87	1700	7.13	20.09	15.03	66.38	1.00	25.01
08/27/87	1715	8.93	48.02	15.37	66.89	1.00	24.97
08/27/87	1730	7.65	60.98	18.18	67.77	1.00	24.96
08/27/87	1745	8.21	39.01	13.05	66.89	1.00	24.96
08/27/87	1800	9.54	47.09	11.48	67.88	1.00	24.92
08/27/87	1815	8.28	11.61	18.11	66.06	1.00	24.95
08/27/87	1830	10.37	37.62	9.91	66.61	1.00	25.00
08/27/87	1845	8.84	60.20	14.22	66.43	1.00	25.00
08/27/87	1900	10.95	76.50	11.42	66.31	1.00	24.99
08/27/87	1915	13.04	52.54	17.31	67.45	1.00	24.99
08/27/87	1930	14.20	41.25	11.84	67.28	1.00	24.99
08/27/87	1945	11.22	46.49	14.64	67.46	1.00	24.99
08/27/87	2000	8.52	33.93	7.53	67.61	1.00	24.99
08/27/87	2015	10.60	29.76	7.53	67.29	1.00	25.00
08/27/87	2030	9.90	53.65	7.53	67.89	1.00	25.00
08/27/87	2045	7.77	70.60	25.93	67.70	1.00	25.00
08/27/87	2100	8.14	146.70	4.79	66.95	1.00	24.99
08/27/87	2115	6.30	163.20	4.79	65.44	1.00	24.99
08/27/87	2130	3.81	175.40	3.22	64.50	1.00	25.00
08/27/87	2145	2.62	181.90	2.40	64.05	1.00	25.00
08/27/87	2200	2.55	167.70	2.81	63.84	1.00	25.00
08/27/87	2215	3.16	157.60	1.99	63.82	1.00	25.00
08/27/87	2230	5.68	140.90	3.15	63.34	1.00	25.00
08/27/87	2245	7.35	151.50	4.73	62.29	1.00	25.01
08/27/87	2300	8.14	162.20	1.65	60.97	1.00	25.02
08/27/87	2315	7.79	166.10	1.23	61.02	1.00	25.03
08/27/87	2330	6.83	171.00	2.40	61.12	1.00	25.04
08/27/87	2345	6.03	181.00	1.65	61.07	1.00	25.04
08/28/87	0	5.35	228.40	10.29	59.22	1.00	25.04
08/28/87	15	7.13	216.50	2.81	59.90	1.00	25.04
08/28/87	30	5.65	211.90	3.57	58.77	1.00	25.04
08/28/87	45	5.37	203.50	3.98	58.76	1.00	25.04
08/28/87	100	4.20	180.90	4.32	58.62	1.00	25.04
08/28/87	115	4.57	167.50	6.72	57.49	1.00	25.05
08/28/87	130	6.38	158.10	4.73	55.01	1.00	25.05
08/28/87	145	6.34	178.60	3.57	55.16	1.00	25.05

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/28/87	200	6.51	189.30	3.57	55.15	1.00	25.05
08/28/87	215	6.94	189.00	1.58	54.84	1.00	25.05
08/28/87	230	6.68	192.70	2.75	54.63	1.00	25.05
08/28/87	245	7.18	198.70	2.33	54.56	1.00	25.05
08/28/87	300	7.09	203.30	1.99	54.52	1.00	25.05
08/28/87	315	7.01	197.20	2.33	54.31	1.00	25.05
08/28/87	330	6.56	192.40	1.99	54.27	1.00	25.05
08/28/87	345	6.52	195.60	2.75	54.23	1.00	25.05
08/28/87	400	5.28	194.70	2.33	53.91	1.00	25.05
08/28/87	415	4.79	202.40	3.50	53.68	1.00	25.05
08/28/87	430	4.01	202.00	3.09	53.01	1.00	25.04
08/28/87	445	4.39	189.50	3.50	53.05	1.00	25.04
08/28/87	500	4.53	193.90	1.17	52.91	1.00	25.04
08/28/87	515	5.33	197.10	2.33	52.84	1.00	25.04
08/28/87	530	6.03	202.30	2.33	52.90	1.00	25.04
08/28/87	545	6.35	201.20	1.51	51.89	1.00	25.03
08/28/87	600	5.89	202.40	1.92	51.29	1.00	25.03
08/28/87	615	6.72	200.20	3.09	51.28	1.00	25.03
08/28/87	630	6.83	189.10	2.68	51.05	1.00	25.03
08/28/87	645	6.64	196.40	4.67	51.42	1.00	25.03
08/28/87	700	6.39	199.90	4.67	51.26	1.00	25.03
08/28/87	715	6.42	193.80	5.84	51.39	1.00	25.03
08/28/87	730	7.67	196.00	1.17	51.33	1.00	25.03
08/28/87	745	4.00	195.00	4.74	49.82	1.00	25.02
08/28/87	800	7.54	191.90	2.33	51.04	1.00	25.03
08/28/87	815	6.00	195.10	1.92	50.11	1.00	25.03
08/28/87	830	5.50	198.20	3.57	49.93	1.00	25.03
08/28/87	845	4.81	203.30	4.33	50.17	1.00	25.03
08/28/87	900	4.21	207.50	3.50	50.42	1.00	25.03
08/28/87	915	5.15	198.20	3.09	50.78	1.00	25.03
08/28/87	930	5.88	194.20	2.33	51.52	1.00	25.03
08/28/87	945	6.26	197.80	2.75	53.16	1.00	25.03
08/28/87	1000	6.21	201.00	4.32	54.36	1.00	25.03
08/28/87	1015	7.25	206.40	3.15	55.88	1.00	25.02
08/28/87	1030	7.58	209.30	4.73	57.58	1.00	25.02
08/28/87	1045	7.74	212.70	5.21	59.15	1.00	25.02
08/28/87	1100	6.48	214.20	9.93	60.85	1.00	25.02
08/28/87	1115	7.04	224.00	6.02	62.21	1.00	25.02
08/28/87	1130	5.91	226.00	10.33	63.86	1.00	25.01
08/28/87	1145	5.67	219.30	7.18	64.97	1.00	25.01
08/28/87	1200	4.12	211.60	22.49	67.04	1.00	25.00
08/28/87	1215	4.75	212.90	17.36	68.06	1.00	24.97
08/28/87	1230	4.89	210.20	10.72	69.19	1.00	25.01
08/28/87	1245	4.45	209.40	20.55	70.80	1.00	25.01
08/28/87	1300	4.40	196.60	13.10	71.60	1.00	25.00
08/28/87	1315	4.63	201.80	12.69	72.70	1.00	25.01

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/28/87	1330	5.25	182.10	22.92	73.50	1.00	25.00
08/28/87	1345	5.48	168.20	27.21	73.70	1.00	24.99
08/28/87	1400	7.12	123.70	8.39	74.40	1.00	24.99
08/28/87	1415	4.80	80.60	38.60	74.60	1.00	24.98
08/28/87	1430	4.86	161.60	22.16	75.10	1.00	24.98
08/28/87	1445	6.41	82.10	13.50	75.50	1.00	24.97
08/28/87	1500	6.79	71.50	24.07	75.20	1.00	24.97
08/28/87	1515	5.76	143.10	10.36	75.80	1.00	24.96
08/28/87	1530	7.03	129.40	38.59	75.40	1.00	24.96
08/28/87	1545	5.33	129.90	37.02	76.00	1.00	24.96
08/28/87	1600	4.56	86.50	58.63	77.00	1.00	24.95
08/28/87	1615	6.34	74.30	22.98	77.40	1.00	24.95
08/28/87	1630	5.09	79.70	23.32	77.10	1.00	24.95
08/28/87	1645	6.49	83.40	19.03	77.00	1.00	24.94
08/28/87	1700	5.76	32.93	30.76	77.00	1.00	24.94
08/28/87	1715	6.47	79.40	16.64	77.30	1.00	24.94
08/28/87	1730	6.12	88.70	7.23	76.70	1.00	24.92
08/28/87	1745	2.60	136.30	51.52	75.60	1.00	24.92
08/28/87	1800	1.90	299.90	51.53	76.60	1.00	24.93
08/28/87	1815	3.29	48.93	7.58	75.30	1.00	24.93
08/28/87	1830	10.59	322.70	12.64	73.10	1.00	24.93
08/28/87	1845	17.85	318.00	6.36	68.37	1.00	24.95
08/28/87	1900	18.62	313.60	4.85	67.14	1.00	24.95
08/28/87	1915	18.50	309.80	6.36	67.72	1.00	24.96
08/28/87	1930	17.25	313.90	5.61	68.87	1.00	24.96
08/28/87	1945	12.45	302.90	4.45	67.48	1.00	24.97
08/28/87	2000	9.77	292.40	5.20	67.13	1.00	24.97
08/28/87	2015	9.62	266.60	4.79	66.95	1.00	24.97
08/28/87	2030	8.33	255.10	3.63	67.55	1.00	24.97
08/28/87	2045	5.83	238.50	4.79	67.22	1.00	24.97
08/28/87	2100	7.24	237.00	4.79	67.05	1.00	24.97
08/28/87	2115	7.33	219.80	10.68	66.79	1.00	24.96
08/28/87	2130	6.58	196.70	8.29	67.53	1.00	24.96
08/28/87	2145	10.71	211.40	17.74	67.80	1.00	24.96
08/28/87	2200	9.06	240.90	3.56	65.42	1.00	24.97
08/28/87	2215	11.18	232.70	2.40	64.57	1.00	24.96
08/28/87	2230	13.45	233.60	3.15	64.60	1.00	24.97
08/28/87	2245	17.19	218.70	3.97	64.25	1.00	24.97
08/28/87	2300	17.99	213.70	2.74	62.77	1.00	24.97
08/28/87	2315	16.34	214.90	2.81	61.63	1.00	24.97
08/28/87	2330	16.01	210.50	2.81	61.18	1.00	24.98
08/28/87	2345	14.41	202.20	2.81	60.20	1.00	24.98
08/29/87	0	14.21	213.80	3.22	60.45	1.00	24.98
08/29/87	15	14.63	214.00	3.56	61.06	1.00	24.98
08/29/87	30	10.95	203.00	4.73	60.07	1.00	24.98
08/29/87	45	8.70	180.40	3.15	58.62	1.00	24.98

RMA METEOROLOGICAL DATA
FROM STATION M1
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08/29/87	100	10.19	199.50	2.40	58.80	1.00	24.98
08/29/87	115	9.52	197.00	2.40	57.58	1.00	24.98
08/29/87	130	9.35	200.70	1.99	57.29	1.00	24.98
08/29/87	145	8.94	199.10	2.40	56.90	1.00	24.98
08/29/87	200	7.24	197.50	1.58	56.03	1.00	24.98
08/29/87	215	8.38	199.30	1.99	56.28	1.00	24.98
08/29/87	230	8.84	195.20	2.75	56.62	1.00	24.98
08/29/87	245	9.08	195.90	1.92	56.36	1.00	24.98
08/29/87	300	9.45	197.40	2.33	56.04	1.00	24.98
08/29/87	315	9.00	197.70	1.99	55.70	1.00	24.98
08/29/87	330	7.46	201.00	1.99	55.29	1.00	24.98
08/29/87	345	7.74	191.80	1.92	54.68	1.00	24.98
08/29/87	400	9.74	187.20	1.17	55.01	1.00	24.98
08/29/87	415	8.20	192.60	2.75	54.90	1.00	24.98
08/29/87	430	8.89	197.40	1.92	54.82	1.00	24.97
08/29/87	445	8.34	195.70	1.58	54.37	1.00	24.97
08/29/87	500	8.19	194.50	2.33	54.20	1.00	24.97
08/29/87	515	8.34	192.80	1.92	54.14	1.00	24.97
08/29/87	530	8.48	186.70	1.24	54.09	1.00	24.97
08/29/87	545	8.63	187.90	1.99	54.13	1.00	24.97
08/29/87	600	9.60	191.40	1.58	54.25	1.00	24.97
08/29/87	615	9.01	189.50	1.58	53.99	1.00	24.97
08/29/87	630	9.24	184.80	1.17	53.42	1.00	24.97
08/29/87	645	9.84	183.30	1.51	53.44	1.00	24.97
08/29/87	700	9.64	189.30	1.51	53.72	1.00	24.97
08/29/87	715	8.75	192.80	2.33	53.55	1.00	24.97
08/29/87	730	8.26	194.20	2.68	53.56	1.00	24.97
08/29/87	745	7.69	201.20	1.51	53.12	1.00	24.97
08/29/87	800	6.75	203.40	1.99	52.05	1.00	24.97
08/29/87	815	6.79	201.30	1.51	52.11	1.00	24.97
08/29/87	830	7.17	202.40	1.58	51.95	1.00	24.99
08/29/87	845	6.84	201.30	0.82	52.13	1.00	24.99
08/29/87	900	6.71	206.00	1.99	52.57	1.00	24.98
08/29/87	915	6.77	217.50	1.17	52.63	1.00	25.00
08/29/87	930	6.25	214.20	3.91	52.96	1.00	25.00
08/29/87	945	5.62	208.30	4.32	55.13	1.00	24.99
08/29/87	1000	6.02	204.50	4.73	57.11	1.00	24.99
08/29/87	1015	6.40	197.20	3.15	58.91	1.00	24.99
08/29/87	1030	7.88	197.20	3.22	59.94	1.00	24.99
08/29/87	1045	7.63	193.90	3.22	61.29	1.00	24.99
08/29/87	1100	6.34	196.10	9.51	63.29	1.00	24.99
08/29/87	1115	4.75	208.50	17.38	65.32	1.00	24.98
08/29/87	1130	4.35	200.30	16.96	66.45	1.00	24.98
08/29/87	1145	3.38	232.30	13.47	68.01	1.00	24.98
08/29/87	1200	2.76	207.00	27.53	69.56	1.00	24.98
08/29/87	1215	2.45	235.20	69.17	70.90	1.00	24.98

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08/29/87	1230	3.20	216.90	31.12	72.10	1.00	24.97
08/29/87	1245	2.58	245.40	26.40	72.80	1.00	24.91
08/29/87	1300	2.90	230.10	39.00	73.60	1.00	24.07
08/29/87	1315	2.50	281.30	54.73	74.60	1.00	24.96
08/29/87	1330	4.00	355.40	9.20	75.10	1.00	24.96
08/29/87	1345	2.99	1.43	24.46	76.10	1.00	24.96
08/29/87	1400	4.56	342.80	34.67	76.00	1.00	24.96
08/29/87	1415	5.66	26.08	13.55	76.00	1.00	24.96
08/29/87	1430	6.61	73.60	9.60	76.40	1.00	24.95
08/29/87	1445	6.19	84.70	24.86	76.80	1.00	24.94
08/29/87	1500	5.93	355.00	28.00	77.60	1.00	24.94
08/29/87	1515	7.84	70.90	22.55	77.70	1.00	24.94
08/29/87	1530	6.27	43.65	11.51	77.90	1.00	24.93
08/29/87	1545	6.27	13.37	37.82	78.00	1.00	24.93
08/29/87	1600	7.24	53.17	11.18	78.70	1.00	24.93
08/29/87	1615	7.13	42.32	14.31	78.70	1.00	24.93
08/29/87	1630	5.28	329.00	21.33	78.90	1.00	24.92
08/29/87	1645	7.18	45.58	15.47	79.60	1.00	24.92
08/29/87	1700	6.63	48.14	9.13	79.30	1.00	24.92
08/29/87	1715	8.29	51.66	17.04	79.20	1.00	24.92
08/29/87	1730	6.08	50.92	16.30	79.80	1.00	24.93
08/29/87	1745	6.92	26.83	14.66	79.50	1.00	24.92
08/29/87	1800	7.02	33.47	11.94	80.00	1.00	24.91
08/29/87	1815	8.08	48.96	6.82	79.80	1.00	24.91
08/29/87	1830	4.66	35.40	33.90	80.30	1.00	24.92
08/29/87	1845	7.28	47.68	10.37	80.10	1.00	24.92
08/29/87	1900	4.88	33.56	31.52	80.30	1.00	24.92
08/29/87	1915	3.69	40.10	43.26	80.70	1.00	24.92
08/29/87	1930	4.29	42.47	33.10	80.60	1.00	24.92
08/29/87	1945	3.85	47.99	7.99	80.80	1.00	24.92
08/29/87	2000	4.17	47.98	9.15	80.70	1.00	24.92
08/29/87	2015	4.46	39.56	9.97	80.30	1.00	24.92
08/29/87	2030	2.07	19.30	17.01	80.30	1.00	24.91
08/29/87	2045	0.43	316.80	19.74	77.60	1.00	24.92
08/29/87	2100	1.66	336.30	1.64	76.70	1.00	24.92
08/29/87	2115	1.02	6.35	10.25	75.50	1.00	24.93
08/29/87	2130	0.38	305.70	1.98	74.30	1.00	24.94
08/29/87	2145	1.42	250.60	6.77	74.20	1.00	24.94
08/29/87	2200	1.79	265.10	4.38	74.20	1.00	24.94
08/29/87	2215	2.13	252.60	4.38	73.70	1.00	24.94
08/29/87	2230	2.18	229.50	6.71	74.00	1.00	24.95
08/29/87	2245	1.55	208.30	13.01	73.50	1.00	24.96
08/29/87	2300	7.56	123.10	2.40	71.70	1.00	24.97
08/29/87	2315	6.97	123.00	1.64	74.40	1.00	24.97
08/29/87	2330	5.07	137.60	2.06	74.00	1.00	24.97
08/29/87	2345	10.20	136.10	1.64	68.41	1.00	24.98

RMA METEOROLOGICAL DATA
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08/30/87	0	11.80	140.20	1.65	65.12	1.00	24.98
08/30/87	15	12.91	144.80	2.81	63.22	1.00	24.98
08/30/87	30	10.38	172.50	1.65	63.88	1.00	24.99
08/30/87	45	9.12	181.10	3.98	66.02	1.00	24.99
08/30/87	100	7.21	188.50	2.40	64.75	1.00	24.99
08/30/87	115	6.76	186.70	2.40	64.98	1.00	24.99
08/30/87	130	7.22	181.20	4.73	64.97	1.00	24.99
08/30/87	145	8.68	166.40	1.58	64.61	1.00	24.99
08/30/87	200	9.75	167.50	1.17	64.61	1.00	24.99
08/30/87	215	8.87	182.50	1.58	64.88	1.00	25.00
08/30/87	230	5.55	209.20	3.15	61.43	1.00	25.01
08/30/87	245	7.14	268.40	4.32	59.74	1.00	25.01
08/30/87	300	9.69	312.00	4.32	61.25	1.00	25.02
08/30/87	315	13.32	325.50	4.73	61.65	1.00	25.04
08/30/87	330	13.42	336.00	3.15	60.27	1.00	25.04
08/30/87	345	14.41	341.20	4.73	59.64	1.00	25.05
08/30/87	400	13.11	341.80	4.73	58.86	1.00	25.07
08/30/87	415	13.44	337.50	2.33	58.50	1.00	25.08
08/30/87	430	12.26	341.30	2.74	57.84	1.00	25.09
08/30/87	445	12.40	341.40	2.40	58.13	1.00	25.10
08/30/87	500	11.88	340.80	3.16	58.16	1.00	25.11
08/30/87	515	11.08	341.20	2.74	58.06	1.00	25.12
08/30/87	530	10.17	342.30	2.74	57.62	1.00	25.12
08/30/87	545	8.86	342.50	2.74	57.01	1.00	25.13
08/30/87	600	7.92	338.40	4.32	57.52	1.00	25.14
08/30/87	615	7.47	338.10	2.33	57.91	1.00	25.14
08/30/87	630	6.42	340.20	3.16	57.75	1.00	25.14
08/30/87	645	5.75	341.70	2.33	57.48	1.00	25.15
08/30/87	700	4.46	345.70	8.65	57.10	1.00	25.15
08/30/87	715	2.62	1.53	3.16	56.81	1.00	25.15
08/30/87	730	3.56	24.15	7.48	56.48	1.00	25.15
08/30/87	745	7.64	43.77	1.58	56.05	1.00	25.15
08/30/87	800	8.02	51.66	1.92	55.42	1.00	25.15
08/30/87	815	6.32	52.83	3.09	54.83	1.00	25.15
08/30/87	830	5.11	61.07	4.25	53.94	1.00	25.16
08/30/87	845	4.50	57.05	5.08	54.42	1.00	25.16
08/30/87	900	4.25	67.48	2.33	54.57	1.00	25.17
08/30/87	915	4.13	81.00	4.67	54.85	1.00	25.17
08/30/87	930	3.96	86.00	6.25	55.30	1.00	25.17
08/30/87	945	5.40	79.50	5.90	56.33	1.00	25.17
08/30/87	1000	7.37	88.20	5.90	57.02	1.00	25.17
08/30/87	1015	7.42	88.00	8.71	57.24	1.00	25.16
08/30/87	1030	7.45	92.90	10.28	57.64	1.00	25.16
08/30/87	1045	8.22	108.60	9.52	57.91	1.00	25.16
08/30/87	1100	8.25	104.40	10.34	58.16	1.00	25.16
08/30/87	1115	7.83	110.40	10.75	58.94	1.00	25.15

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/30/87	1130	6.90	121.10	19.37	59.08	1.00	25.14
08/30/87	1145	5.63	119.50	15.06	59.67	1.00	25.14
08/30/87	1200	4.86	137.40	31.48	61.07	1.00	25.13
08/30/87	1215	4.98	115.00	18.54	61.50	1.00	25.13
08/30/87	1230	3.41	117.10	12.72	62.87	1.00	25.12
08/30/87	1245	5.14	146.20	17.36	63.07	1.00	25.10
08/30/87	1300	5.84	124.60	31.43	63.70	1.00	25.10
08/30/87	1315	5.61	128.90	34.22	63.74	1.00	25.09
08/30/87	1330	5.82	128.30	17.35	64.01	1.00	25.08
08/30/87	1345	5.63	133.70	17.01	65.45	1.00	25.08
08/30/87	1400	6.51	122.70	51.49	65.72	1.00	25.08
08/30/87	1415	5.24	162.00	24.04	66.15	1.00	25.08
08/30/87	1430	6.61	153.50	8.74	67.33	1.00	25.07
08/30/87	1445	8.36	182.30	11.47	67.15	1.00	25.07
08/30/87	1500	5.93	155.40	29.15	68.44	1.00	25.06
08/30/87	1515	6.57	150.00	20.55	69.35	1.00	25.05
08/30/87	1530	5.76	137.80	13.52	70.00	1.00	25.05
08/30/87	1545	6.17	111.80	24.44	71.00	1.00	25.04
08/30/87	1600	8.10	116.10	18.97	71.50	1.00	25.03
08/30/87	1615	5.28	140.10	39.25	72.30	1.00	25.03
08/30/87	1630	4.95	146.70	33.51	73.60	1.00	24.98
08/30/87	1645	3.92	176.50	33.10	74.80	1.00	25.03
08/30/87	1700	5.57	146.00	41.76	74.80	1.00	25.02
08/30/87	1715	5.33	95.10	13.51	76.00	1.00	25.00
08/30/87	1730	4.85	91.90	48.79	76.40	1.00	25.00
08/30/87	1745	4.45	19.30	13.10	76.60	1.00	24.99
08/30/87	1800	5.72	47.32	45.24	77.70	1.00	24.98
08/30/87	1815	8.18	68.60	10.78	77.70	1.00	24.97
08/30/87	1830	6.59	14.75	20.95	77.40	1.00	24.97
08/30/87	1845	6.93	18.51	22.52	77.70	1.00	24.97
08/30/87	1900	7.99	19.02	6.42	77.30	1.00	24.96
08/30/87	1915	11.66	18.28	9.15	76.20	1.00	24.95
08/30/87	1930	9.36	4.44	6.35	75.30	1.00	24.94
08/30/87	1945	8.59	14.46	5.60	74.00	1.00	23.44
08/30/87	2000	9.46	25.32	3.21	72.40	1.00	24.93
08/30/87	2015	7.58	5.37	5.54	72.80	1.00	24.97
08/30/87	2030	8.11	357.70	5.54	72.50	1.00	24.97
08/30/87	2045	7.08	7.74	5.88	72.20	1.00	24.97
08/30/87	2100	8.13	343.80	2.80	70.30	1.00	24.97
08/30/87	2115	9.35	339.50	2.39	69.33	1.00	24.97
08/30/87	2130	8.87	342.60	2.46	68.80	1.00	24.96
08/30/87	2145	9.08	340.60	2.81	67.68	1.00	24.96
08/30/87	2200	10.26	332.10	4.38	66.99	1.00	24.97
08/30/87	2215	9.95	340.40	2.81	66.24	1.00	24.97
08/30/87	2230	9.85	340.10	2.46	65.61	1.00	24.97
08/30/87	2245	10.46	341.60	2.06	65.01	1.00	24.99

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/30/87	2300	10.41	339.00	2.47	64.54	1.00	25.01
08/30/87	2315	10.16	340.20	2.40	64.18	1.00	25.02
08/30/87	2330	9.44	343.80	8.29	63.64	1.00	25.02
08/30/87	2345	6.35	4.38	4.39	63.10	1.00	25.02
08/31/87	0	5.87	3.36	5.55	62.17	1.00	25.03
08/31/87	15	6.49	352.90	5.89	60.87	1.00	25.03
08/31/87	30	6.34	345.40	2.40	60.19	1.00	25.03
08/31/87	45	7.24	340.00	3.56	59.43	1.00	25.03
08/31/87	100	6.62	318.60	5.14	59.00	1.00	25.03
08/31/87	115	7.50	305.50	5.49	59.02	1.00	25.03
08/31/87	130	7.67	305.30	3.98	58.87	1.00	25.04
08/31/87	145	11.38	317.50	4.32	58.74	1.00	25.05
08/31/87	200	11.97	324.90	4.32	58.32	1.00	25.06
08/31/87	215	11.09	327.40	4.73	57.59	1.00	25.07
08/31/87	230	11.40	329.10	4.32	57.07	1.00	25.07
08/31/87	245	9.86	329.50	5.49	56.35	1.00	25.06
08/31/87	300	6.76	331.80	5.49	55.64	1.00	25.08
08/31/87	315	6.18	315.90	3.16	55.21	1.00	25.08
08/31/87	330	6.81	309.00	3.57	54.88	1.00	25.09
08/31/87	345	6.89	308.20	1.92	54.91	1.00	25.09
08/31/87	400	7.45	293.80	1.92	54.85	1.00	25.09
08/31/87	415	7.84	297.30	2.33	54.23	1.00	25.09
08/31/87	430	6.57	292.60	3.50	53.59	1.00	25.09
08/31/87	445	5.37	249.50	4.33	53.32	1.00	25.09
08/31/87	500	5.55	252.70	3.91	53.48	1.00	25.09
08/31/87	515	6.92	270.30	3.09	53.56	1.00	25.09
08/31/87	530	8.40	285.60	1.51	53.61	1.00	25.09
08/31/87	545	6.91	281.70	5.84	53.24	1.00	25.09
08/31/87	600	5.52	279.30	2.33	52.88	1.00	25.09
08/31/87	615	5.71	286.70	5.08	53.93	1.00	25.10
08/31/87	630	4.69	269.90	11.33	53.36	1.00	25.10
08/31/87	645	5.36	252.30	10.58	52.42	1.00	25.09
08/31/87	700	4.77	265.00	12.56	52.57	1.00	25.10
08/31/87	715	4.94	246.40	7.42	52.76	1.00	25.10
08/31/87	730	5.52	253.10	6.32	53.08	1.00	25.10
08/31/87	745	5.33	247.70	2.68	52.61	1.00	25.10
08/31/87	800	4.85	240.80	2.33	51.94	1.00	25.11
08/31/87	815	5.43	240.50	2.75	51.87	1.00	25.11
08/31/87	830	5.66	250.70	1.92	52.05	1.00	25.11
08/31/87	845	4.40	251.60	5.08	52.07	1.00	25.11
08/31/87	900	3.93	230.10	3.16	51.99	1.00	25.12
08/31/87	915	3.48	232.40	2.68	52.83	1.00	25.12
08/31/87	930	4.30	231.20	3.50	53.63	1.00	25.12
08/31/87	945	3.21	235.20	5.08	54.80	1.00	25.12
08/31/87	1000	3.86	241.40	7.89	56.11	1.00	25.12
08/31/87	1015	4.45	256.90	10.28	57.19	1.00	25.11

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/31/87	1030	4.30	262.70	15.42	58.28	1.00	25.11
08/31/87	1045	4.75	280.70	13.08	58.75	1.00	25.12
08/31/87	1100	5.49	279.80	14.65	59.64	1.00	25.12
08/31/87	1115	4.49	288.80	10.40	60.62	1.00	25.12
08/31/87	1130	4.30	313.50	23.25	61.63	1.00	25.11
08/31/87	1145	4.36	307.80	37.73	62.33	1.00	25.11
08/31/87	1200	2.84	1.31	51.85	63.60	1.00	25.10
08/31/87	1215	4.35	295.20	22.47	63.93	1.00	25.10
08/31/87	1230	3.92	268.20	24.03	64.92	1.00	25.09
08/31/87	1245	4.17	302.20	16.31	65.96	1.00	25.11
08/31/87	1300	2.95	284.50	17.40	66.82	1.00	25.12
08/31/87	1315	4.15	251.70	24.01	67.07	1.00	25.12
08/31/87	1330	3.29	246.60	14.66	68.45	1.00	25.11
08/31/87	1345	3.46	247.10	29.94	68.87	1.00	25.11
08/31/87	1400	3.58	264.40	14.66	70.10	1.00	25.11
08/31/87	1415	3.97	189.00	20.18	69.95	1.00	25.11
08/31/87	1430	4.29	65.72	37.76	71.50	1.00	25.11
08/31/87	1445	3.48	67.35	54.33	72.70	1.00	25.11
08/31/87	1500	3.86	11.51	51.53	72.90	1.00	25.09
08/31/87	1515	4.32	65.77	18.61	73.80	1.00	25.09
08/31/87	1530	4.41	48.27	31.08	74.60	1.00	25.08
08/31/87	1545	5.16	50.33	14.31	75.00	1.00	25.08
08/31/87	1600	4.74	47.37	19.42	75.40	1.00	25.08
08/31/87	1615	4.59	49.16	46.83	76.00	1.00	25.09
08/31/87	1630	4.86	43.39	18.54	76.60	1.00	25.08
08/31/87	1645	5.81	30.99	11.11	76.70	1.00	25.08
08/31/87	1700	5.86	30.13	24.48	76.80	1.00	25.08
08/31/87	1715	5.95	31.67	20.59	77.50	1.00	25.07
08/31/87	1730	5.94	48.58	17.46	78.00	1.00	25.06
08/31/87	1745	4.40	39.54	48.70	78.50	1.00	25.06
08/31/87	1800	3.35	51.22	66.84	79.70	1.00	25.05
08/31/87	1815	3.57	77.10	17.80	80.20	1.00	25.05
08/31/87	1830	2.71	70.10	59.81	80.70	1.00	25.05
08/31/87	1845	3.84	12.36	48.36	80.30	1.00	25.05
08/31/87	1900	4.24	20.05	9.96	79.80	1.00	25.05
08/31/87	1915	4.23	14.37	21.35	79.50	1.00	25.04
08/31/87	1930	2.34	13.21	35.48	79.60	1.00	25.05
08/31/87	1945	4.41	63.43	4.85	79.70	1.00	25.04
08/31/87	2000	4.58	60.39	11.54	79.20	1.00	25.03
08/31/87	2015	2.77	52.53	11.88	79.70	1.00	25.02
08/31/87	2030	2.73	27.90	10.72	78.90	1.00	25.02
08/31/87	2045	2.01	38.82	10.72	78.80	1.00	25.02
08/31/87	2100	0.73	356.60	20.50	77.80	1.00	25.02
08/31/87	2115	1.15	59.83	5.19	76.50	1.00	25.02
08/31/87	2130	1.95	86.90	5.20	75.10	1.00	25.01
08/31/87	2145	2.58	71.60	4.38	74.10	1.00	25.04

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/31/87	2200	3.07	77.70	2.87	73.40	1.00	25.04
08/31/87	2215	3.65	79.00	2.81	73.80	1.00	25.05
08/31/87	2230	4.00	72.80	3.56	73.40	1.00	25.05
08/31/87	2245	3.45	85.70	3.29	73.20	1.00	25.05
08/31/87	2300	4.88	100.30	8.35	73.50	1.00	25.05
08/31/87	2315	6.14	118.50	2.06	72.60	1.00	25.05
08/31/87	2330	8.80	118.60	1.64	70.10	1.00	25.08
08/31/87	2345	9.52	119.20	2.06	69.59	1.00	25.08
09/01/87	0	9.95	136.70	2.06	68.39	1.00	25.08
09/01/87	15	10.68	143.80	2.81	66.92	1.00	25.08
09/01/87	30	8.39	189.00	1.65	65.13	1.00	25.08
09/01/87	45	8.03	185.90	1.65	67.35	1.00	25.09
09/01/87	100	7.26	190.10	3.63	68.39	1.00	25.08
09/01/87	115	7.54	184.80	3.22	67.02	1.00	25.09
09/01/87	130	8.13	196.50	7.88	64.46	1.00	25.09
09/01/87	145	8.45	192.90	1.99	64.64	1.00	25.08
09/01/87	200	8.32	190.00	1.23	64.12	1.00	25.09
09/01/87	215	8.34	188.10	0.82	63.96	1.00	25.09
09/01/87	230	6.77	188.40	1.58	63.37	1.00	25.08
09/01/87	245	6.29	188.80	1.99	63.40	1.00	25.08
09/01/87	300	6.89	195.80	1.17	62.29	1.00	25.09
09/01/87	315	6.96	201.90	0.41	61.68	1.00	25.08
09/01/87	330	7.22	202.50	1.58	60.41	1.00	25.08
09/01/87	345	6.89	210.00	1.58	59.69	1.00	25.08
09/01/87	400	6.42	208.90	1.99	59.32	1.00	25.08
09/01/87	415	5.80	206.90	1.99	59.42	1.00	25.08
09/01/87	430	6.02	212.80	3.16	59.75	1.00	25.08
09/01/87	445	7.17	201.60	2.33	58.69	1.00	25.08
09/01/87	500	7.47	203.30	0.76	58.29	1.00	25.08
09/01/87	515	6.73	203.50	1.58	57.84	1.00	25.08
09/01/87	530	6.96	199.40	1.92	57.78	1.00	25.08
09/01/87	545	7.07	196.40	1.92	57.70	1.00	25.08
09/01/87	600	7.88	193.90	1.58	57.93	1.00	25.08
09/01/87	615	8.00	190.90	0.76	57.72	1.00	25.08
09/01/87	630	7.66	191.60	1.92	57.33	1.00	25.08
09/01/87	645	7.41	197.70	2.75	56.39	1.00	25.08
09/01/87	700	6.75	197.90	1.92	56.57	1.00	25.09
09/01/87	715	7.35	200.10	2.75	56.07	1.00	25.08
09/01/87	730	6.34	192.30	1.51	55.90	1.00	25.08
09/01/87	745	7.28	199.60	2.68	56.25	1.00	25.08
09/01/87	800	7.13	197.40	1.92	55.80	1.00	25.09
09/01/87	815	6.38	198.60	1.51	56.06	1.00	25.09
09/01/87	830	6.67	195.30	1.92	55.54	1.00	25.10
09/01/87	845	6.49	197.30	1.17	55.61	1.00	25.10
09/01/87	900	7.08	196.30	1.24	56.20	1.00	25.12
09/01/87	915	7.47	197.50	2.33	57.01	1.00	25.12

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/01/87	930	7.23	196.30	3.16	58.02	1.00	25.12
09/01/87	945	2.58	274.30	17.35	59.46	1.00	25.12
09/01/87	1000	2.49	297.50	20.08	59.30	1.00	25.13
09/01/87	1015	3.31	217.60	7.95	60.63	1.00	25.11
09/01/87	1030	4.09	226.40	11.50	61.92	1.00	25.12
09/01/87	1045	4.74	220.10	11.09	63.55	1.00	25.12
09/01/87	1100	3.22	263.10	14.98	65.49	1.00	25.12
09/01/87	1115	3.78	294.30	16.62	66.33	1.00	25.11
09/01/87	1130	5.38	307.20	11.48	66.30	1.00	25.10
09/01/87	1145	5.52	311.30	11.13	67.14	1.00	25.10
09/01/87	1200	6.33	319.10	15.43	68.08	1.00	25.10
09/01/87	1215	5.86	319.50	13.85	69.00	1.00	25.10
09/01/87	1230	5.37	321.40	20.54	69.74	1.00	25.10
09/01/87	1245	5.32	17.20	20.94	70.80	1.00	25.13
09/01/87	1300	5.01	340.80	29.19	70.70	1.00	25.13
09/01/87	1315	4.36	17.45	31.09	71.40	1.00	25.13
09/01/87	1330	3.68	359.10	13.09	72.30	1.00	25.12
09/01/87	1345	3.32	72.60	20.99	73.70	1.00	24.99
09/01/87	1400	4.06	27.96	19.01	74.10	1.00	24.94
09/01/87	1415	3.41	46.48	33.11	75.50	1.00	24.94
09/01/87	1430	3.12	22.10	49.93	76.20	1.00	24.93
09/01/87	1445	2.53	183.30	60.62	77.40	1.00	24.94
09/01/87	1500	4.25	45.69	60.20	77.70	1.00	24.94
09/01/87	1515	4.78	100.50	24.45	77.90	1.00	24.91
09/01/87	1530	2.71	39.46	32.75	79.10	1.00	24.91
09/01/87	1545	5.22	183.40	15.87	79.10	1.00	24.93
09/01/87	1600	4.43	101.20	15.46	80.10	1.00	24.97
09/01/87	1615	5.52	88.00	24.11	80.50	1.00	24.99
09/01/87	1630	4.99	164.00	27.65	80.80	1.00	24.98
09/01/87	1645	4.59	124.90	66.89	81.40	1.00	24.97
09/01/87	1700	4.66	149.00	51.57	81.90	1.00	24.97
09/01/87	1715	6.24	182.90	17.44	82.20	1.00	24.98
09/01/87	1730	5.47	165.70	42.92	82.30	1.00	24.98
09/01/87	1745	5.60	185.60	14.31	81.80	1.00	24.95
09/01/87	1800	5.21	209.00	8.79	81.80	1.00	24.93
09/01/87	1815	6.29	195.20	6.82	81.00	1.00	24.81
09/01/87	1830	5.05	195.60	13.51	80.80	1.00	24.69
09/01/87	1845	6.30	154.60	9.14	81.10	1.00	24.69
09/01/87	1900	5.99	156.90	19.80	80.90	1.00	24.69
09/01/87	1915	4.90	132.80	4.44	80.40	1.00	24.70
09/01/87	1930	6.74	140.40	4.44	80.10	1.00	24.71
09/01/87	1945	5.74	143.80	7.17	80.00	1.00	24.73
09/01/87	2000	4.08	144.20	4.03	79.60	1.00	24.33
09/01/87	2015	3.24	132.00	4.78	79.10	1.00	22.93
09/01/87	2030	5.23	127.50	2.05	78.60	1.00	22.77
09/01/87	2045	4.97	127.70	3.21	78.00	1.00	24.91

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/01/87	2100	7.98	140.90	2.05	76.80	1.00	25.00
09/01/87	2115	8.06	138.10	0.89	75.30	1.00	24.99
09/01/87	2130	6.86	147.40	1.30	74.50	1.00	24.99
09/01/87	2145	6.95	134.00	5.61	73.50	1.00	24.99
09/01/87	2200	7.34	139.00	4.04	73.90	1.00	25.01
09/01/87	2215	7.03	158.40	2.05	72.60	1.00	25.01
09/01/87	2230	6.17	261.40	11.09	72.20	1.00	25.01
09/01/87	2245	6.55	260.30	16.57	74.90	1.00	25.02
09/01/87	2300	6.42	168.40	7.60	74.60	1.00	25.02
09/01/87	2315	7.86	138.70	4.45	74.40	1.00	25.02
09/01/87	2330	7.49	171.10	2.81	73.50	1.00	25.02
09/01/87	2345	5.40	260.40	14.24	72.90	1.00	25.02
09/02/87	0	9.95	318.20	6.37	71.30	1.00	25.04
09/02/87	15	8.62	330.60	3.63	71.20	1.00	25.04
09/02/87	30	5.21	338.30	4.04	71.10	1.00	25.03
09/02/87	45	4.89	357.40	18.49	71.50	1.00	25.03
09/02/87	100	3.77	220.50	9.11	70.30	1.00	25.03
09/02/87	115	6.43	187.60	5.21	69.97	1.00	25.01
09/02/87	130	15.46	164.30	3.22	68.49	1.00	25.00
09/02/87	145	11.64	172.80	3.63	69.56	1.00	24.99
09/02/87	200	8.44	203.20	3.22	69.69	1.00	24.99
09/02/87	215	10.05	234.60	11.44	68.47	1.00	24.99
09/02/87	230	6.45	254.20	5.55	68.99	1.00	24.99
09/02/87	245	1.74	269.90	9.11	68.08	1.00	24.99
09/02/87	300	1.62	108.50	9.04	66.38	1.00	25.00
09/02/87	315	6.23	165.80	2.81	68.60	1.00	25.00
09/02/87	330	7.32	174.70	4.39	69.07	1.00	25.00
09/02/87	345	8.16	176.00	7.47	68.41	1.00	24.99
09/02/87	400	10.00	148.70	1.99	64.84	1.00	25.00
09/02/87	415	10.26	155.40	3.56	65.03	1.00	24.99
09/02/87	430	9.41	171.80	1.58	65.52	1.00	24.98
09/02/87	445	8.33	177.10	3.98	65.56	1.00	24.98
09/02/87	500	8.31	280.60	3.56	64.52	1.00	24.98
09/02/87	515	5.07	296.50	4.32	64.25	1.00	24.98
09/02/87	530	4.81	304.00	3.98	63.64	1.00	24.98
09/02/87	545	2.14	341.50	21.60	62.27	1.00	24.97
09/02/87	600	1.94	68.39	11.80	61.64	1.00	24.96
09/02/87	615	2.32	91.40	5.08	61.38	1.00	24.97
09/02/87	630	1.11	107.20	31.34	60.73	1.00	24.97
09/02/87	645	2.35	317.40	10.22	60.56	1.00	24.97
09/02/87	700	4.41	322.10	1.17	61.09	1.00	24.97
09/02/87	715	6.42	304.40	2.33	60.78	1.00	24.97
09/02/87	730	5.87	272.60	8.23	58.63	1.00	24.97
09/02/87	745	5.48	243.20	1.92	57.33	1.00	24.97
09/02/87	800	5.22	255.30	2.33	58.39	1.00	24.98
09/02/87	815	4.25	253.60	3.50	58.92	1.00	24.98

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/02/87	830	4.34	249.70	2.68	58.71	1.00	24.98
09/02/87	845	5.26	241.30	7.07	59.71	1.00	24.98
09/02/87	900	4.87	223.80	2.33	59.06	1.00	24.98
09/02/87	915	5.69	227.20	4.74	59.95	1.00	24.98
09/02/87	930	4.76	213.20	3.16	59.74	1.00	24.98
09/02/87	945	5.18	216.50	2.74	60.65	1.00	24.98
09/02/87	1000	5.29	227.00	3.22	61.58	1.00	24.97
09/02/87	1015	5.24	233.20	5.21	62.25	1.00	24.97
09/02/87	1030	4.88	244.00	7.19	63.59	1.00	24.97
09/02/87	1045	4.24	236.30	11.85	65.59	1.00	24.97
09/02/87	1100	4.10	223.30	7.60	66.62	1.00	24.98
09/02/87	1115	3.78	223.70	17.04	67.74	1.00	24.97
09/02/87	1130	4.58	223.90	20.17	69.00	1.00	24.95
09/02/87	1145	5.32	192.60	11.90	70.10	1.00	24.96
09/02/87	1200	5.70	184.80	12.23	71.00	1.00	24.96
09/02/87	1215	5.16	186.90	11.47	72.30	1.00	24.96
09/02/87	1230	6.16	202.30	10.38	73.70	1.00	24.95
09/02/87	1245	7.22	202.40	12.69	75.10	1.00	24.95
09/02/87	1300	6.57	190.80	16.65	76.70	1.00	24.95
09/02/87	1315	6.01	184.60	11.12	78.40	1.00	24.94
09/02/87	1330	5.04	164.40	19.43	79.90	1.00	24.94
09/02/87	1345	4.43	161.00	24.80	81.00	1.00	24.93
09/02/87	1400	5.35	102.50	22.14	82.10	1.00	24.93
09/02/87	1415	5.98	146.60	19.41	83.00	1.00	24.92
09/02/87	1430	5.16	107.90	61.42	84.20	1.00	24.91
09/02/87	1445	6.01	82.60	35.88	85.50	1.00	24.91
09/02/87	1500	5.50	105.00	37.03	85.80	1.00	24.90
09/02/87	1515	6.74	139.20	16.33	86.30	1.00	24.90
09/02/87	1530	7.78	156.70	15.92	86.20	1.00	24.90
09/02/87	1545	10.57	167.90	19.46	86.10	1.00	24.89
09/02/87	1600	11.51	184.20	13.14	85.80	1.00	24.87
09/02/87	1615	11.81	179.90	10.42	85.90	1.00	24.87
09/02/87	1630	13.23	210.00	10.01	84.80	1.00	24.85
09/02/87	1645	12.62	204.80	8.45	85.60	1.00	24.85
09/02/87	1700	12.40	206.60	17.85	85.10	1.00	24.85
09/02/87	1715	10.60	186.70	16.70	86.10	1.00	24.85
09/02/87	1730	12.87	202.30	6.00	84.80	1.00	24.85
09/02/87	1745	13.30	221.90	7.57	84.20	1.00	24.84
09/02/87	1800	12.24	228.10	4.03	83.70	1.00	24.84
09/02/87	1815	11.46	228.10	4.03	83.20	1.00	24.84
09/02/87	1830	9.43	239.30	3.62	82.20	1.00	24.84
09/02/87	1845	12.17	260.80	18.16	81.30	1.00	24.86
09/02/87	1900	12.98	232.60	25.14	81.20	1.00	24.86
09/02/87	1915	9.76	15.93	7.52	78.00	1.00	24.87
09/02/87	1930	11.21	324.70	13.39	76.10	1.00	24.80
09/02/87	1945	7.40	253.20	21.33	76.70	1.00	24.86

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/02/87	2000	6.03	174.30	11.08	77.40	1.00	24.66
09/02/87	2015	14.14	137.40	3.97	76.30	1.00	24.65
09/02/87	2030	10.07	138.20	18.88	76.00	1.00	24.62
09/02/87	2045	3.74	154.90	27.56	76.30	1.00	24.63
09/02/87	2100	4.14	96.40	18.60	76.30	1.00	24.64
09/02/87	2115	4.90	165.20	11.56	75.60	1.00	24.64
09/02/87	2130	4.42	201.80	2.87	75.20	1.00	24.78
09/02/87	2145	4.56	204.60	2.87	74.50	1.00	24.87
09/02/87	2200	4.89	123.40	8.35	72.60	1.00	24.78
09/02/87	2215	9.94	134.10	6.78	70.90	1.00	24.75
09/02/87	2230	10.78	167.80	1.23	70.10	1.00	24.66
09/02/87	2245	10.40	176.20	1.64	70.10	1.00	24.57
09/02/87	2300	8.43	173.40	2.05	69.84	1.00	24.55
09/02/87	2315	10.98	168.20	3.63	70.40	1.00	24.53
09/02/87	2330	10.48	183.70	2.47	70.10	1.00	24.52
09/02/87	2345	11.19	191.30	2.81	69.70	1.00	24.51
09/03/87	0	11.67	191.30	2.81	69.42	1.00	24.51
09/03/87	15	10.67	200.10	2.06	68.63	1.00	24.50
09/03/87	30	8.85	196.20	2.81	68.05	1.00	24.49
09/03/87	45	8.70	201.30	2.40	68.14	1.00	24.51
09/03/87	100	7.58	194.80	1.99	67.26	1.00	24.51
09/03/87	115	9.18	191.60	2.06	66.99	1.00	24.51
09/03/87	130	10.14	188.60	2.40	67.05	1.00	24.48
09/03/87	145	10.39	183.50	1.65	66.44	1.00	24.46
09/03/87	200	11.21	181.90	2.40	66.98	1.00	24.47
09/03/87	215	11.62	185.50	1.99	67.10	1.00	24.41
09/03/87	230	11.19	184.10	1.99	66.62	1.00	24.44
09/03/87	245	11.37	185.80	2.40	66.23	1.00	24.55
09/03/87	300	10.46	182.60	1.99	65.54	1.00	24.64
09/03/87	315	9.47	185.40	2.40	64.99	1.00	24.80
09/03/87	330	9.65	179.60	1.58	64.10	1.00	24.81
09/03/87	345	9.82	176.90	2.40	63.95	1.00	24.81
09/03/87	400	9.67	171.20	1.99	63.89	1.00	24.81
09/03/87	415	10.26	177.40	1.58	63.89	1.00	24.81
09/03/87	430	8.90	186.50	1.58	63.02	1.00	24.81
09/03/87	445	9.59	190.90	2.74	62.98	1.00	24.81
09/03/87	500	9.80	199.90	1.58	63.37	1.00	24.81
09/03/87	515	10.90	202.70	3.15	63.10	1.00	24.81
09/03/87	530	10.93	200.20	5.08	63.17	1.00	24.81
09/03/87	545	10.20	200.30	3.15	62.68	1.00	24.81
09/03/87	600	9.65	198.90	3.50	62.00	1.00	24.81
09/03/87	615	9.28	207.90	2.33	61.07	1.00	24.82
09/03/87	630	9.42	197.80	2.33	60.88	1.00	24.81
09/03/87	645	10.97	195.90	2.74	61.54	1.00	24.80
09/03/87	700	10.21	200.50	1.92	60.53	1.00	24.80
09/03/87	715	8.88	193.10	3.15	60.21	1.00	24.80

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FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/03/87	730	7.55	190.40	1.51	59.58	1.00	24.80
09/03/87	745	8.74	192.10	1.58	59.50	1.00	24.79
09/03/87	800	9.28	194.00	2.33	60.10	1.00	24.80
09/03/87	815	10.23	197.80	6.31	60.64	1.00	24.81
09/03/87	830	10.03	203.90	4.32	60.40	1.00	24.81
09/03/87	845	9.70	212.50	1.58	58.95	1.00	24.81
09/03/87	900	8.57	213.60	1.58	58.63	1.00	24.81
09/03/87	915	7.50	210.30	1.99	59.27	1.00	24.81
09/03/87	930	6.79	209.80	3.57	60.14	1.00	24.81
09/03/87	945	7.21	212.00	3.56	61.53	1.00	24.79
09/03/87	1000	7.30	193.60	3.63	63.63	1.00	24.74
09/03/87	1015	9.42	188.20	3.63	65.92	1.00	24.71
09/03/87	1030	9.88	194.90	4.04	67.24	1.00	24.77
09/03/87	1045	9.36	195.20	4.45	69.12	1.00	24.83
09/03/87	1100	9.04	192.70	6.02	70.60	1.00	24.83
09/03/87	1115	8.46	193.00	7.59	72.40	1.00	24.83
09/03/87	1130	8.98	198.60	3.62	74.00	1.00	24.83
09/03/87	1145	7.40	198.30	6.01	76.00	1.00	24.82
09/03/87	1200	7.37	189.60	8.40	77.50	1.00	24.80
09/03/87	1215	6.69	192.80	5.67	78.50	1.00	24.82
09/03/87	1230	5.38	168.60	11.94	80.40	1.00	24.82
09/03/87	1245	4.65	194.30	11.93	81.30	1.00	24.82
09/03/87	1300	2.85	201.60	36.67	82.70	1.00	24.82
09/03/87	1315	2.52	161.30	23.29	84.10	1.00	24.82
09/03/87	1330	4.49	209.60	22.13	83.80	1.00	24.80
09/03/87	1345	4.17	221.20	16.68	84.40	1.00	24.80
09/03/87	1400	3.99	284.00	38.24	85.10	1.00	24.80
09/03/87	1415	4.71	259.00	40.21	85.30	1.00	24.78
09/03/87	1430	4.08	271.20	32.78	86.00	1.00	24.77
09/03/87	1445	7.95	223.20	21.77	85.40	1.00	23.44
09/03/87	1500	3.45	258.40	21.02	87.30	1.00	20.30
09/07/87	1530	9.20	42.04	23.27	62.62	0.78	24.95
09/07/87	1545	8.41	42.01	11.91	63.11	0.78	24.95
09/07/87	1600	6.63	36.05	26.75	63.06	0.78	24.95
09/07/87	1615	7.33	38.97	16.97	62.63	0.78	24.95
09/07/87	1630	7.72	21.54	9.92	61.99	0.78	24.95
09/07/87	1645	9.43	34.07	16.97	63.01	0.78	24.95
09/07/87	1700	11.11	35.92	7.60	63.54	0.78	24.95
09/07/87	1715	12.20	35.78	6.43	62.87	0.78	24.95
09/07/87	1730	10.31	31.85	7.19	63.02	0.78	24.95
09/07/87	1745	8.72	38.19	11.84	62.74	0.78	24.95
09/07/87	1800	13.89	35.85	4.79	60.66	0.78	24.96
09/07/87	1815	12.98	38.97	4.04	60.47	0.78	24.96
09/07/87	1830	11.49	36.36	3.97	60.57	0.78	24.96
09/07/87	1845	10.00	36.80	4.38	60.63	0.78	24.96
09/07/87	1900	10.57	40.36	4.73	60.67	0.78	24.96

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/07/87	1915	10.79	38.37	3.98	60.51	0.78	24.97
09/07/87	1930	7.68	30.97	6.72	60.74	0.78	24.97
09/07/87	1945	7.82	40.56	7.47	61.01	0.78	24.96
09/07/87	2000	6.55	38.18	3.98	60.89	0.78	24.95
09/07/87	2015	5.29	47.19	9.87	60.32	0.78	24.95
09/07/87	2030	5.67	20.13	7.88	60.18	0.78	24.95
09/07/87	2045	5.35	348.10	4.73	59.20	0.78	24.95
09/07/87	2100	4.47	339.90	2.40	59.15	0.78	24.95
09/07/87	2115	3.09	342.80	5.55	59.09	0.78	24.96
09/07/87	2130	1.89	351.50	3.98	58.90	0.78	24.96
09/07/87	2145	1.46	12.84	4.39	58.87	0.78	24.96
09/07/87	2200	3.49	34.87	3.56	58.71	0.78	24.96
09/07/87	2215	3.97	42.60	1.58	58.52	0.78	24.96
09/07/87	2230	4.68	43.95	1.99	58.43	0.78	24.96
09/07/87	2245	5.14	41.10	2.40	58.08	0.78	24.98
09/07/87	2300	4.48	49.76	6.31	57.63	0.78	24.99
09/07/87	2315	8.49	83.20	5.56	57.81	0.78	24.99
09/07/87	2330	7.74	97.30	3.98	56.73	0.78	24.99
09/07/87	2345	7.23	108.20	3.16	56.60	0.78	24.99
09/08/87	0	8.51	111.80	4.32	56.49	0.78	25.01
09/08/87	15	7.76	113.50	4.73	56.51	0.78	25.01
09/08/87	30	7.24	115.40	3.98	56.61	0.78	25.01
09/08/87	45	7.04	124.00	4.73	56.84	0.78	25.01
09/08/87	100	6.83	130.60	4.73	56.80	0.78	25.01
09/08/87	115	6.20	135.60	4.32	56.68	0.78	25.01
09/08/87	130	7.10	136.10	3.16	56.64	0.78	25.01
09/08/87	145	5.88	136.00	3.57	56.55	0.78	25.01
09/08/87	200	4.91	129.60	3.57	56.36	0.78	25.01
09/08/87	215	4.78	145.40	5.49	56.29	0.78	25.01
09/08/87	230	4.59	138.10	3.98	56.25	0.78	25.01
09/08/87	245	3.69	132.60	2.74	55.98	0.78	25.00
09/08/87	300	3.96	149.10	3.57	55.90	0.78	25.00
09/08/87	315	3.98	150.50	14.13	56.06	0.78	25.00
09/08/87	330	4.86	150.10	3.57	56.37	0.78	25.00
09/08/87	345	4.51	156.50	4.73	56.30	0.78	25.00
09/08/87	400	5.53	152.60	3.16	56.26	0.78	25.00
09/08/87	415	5.64	154.00	2.74	56.01	0.78	25.00
09/08/87	430	6.25	165.80	1.92	55.86	0.78	24.99
09/08/87	445	5.99	177.60	1.58	55.59	0.78	24.99
09/08/87	500	5.66	172.00	3.91	55.27	0.78	24.98
09/08/87	515	7.01	163.50	2.68	55.78	0.78	24.98
09/08/87	530	6.06	166.10	1.92	55.08	0.78	24.98
09/08/87	545	6.26	178.70	1.17	54.76	0.78	24.98
09/08/87	600	6.93	172.00	2.33	54.45	0.78	24.97
09/08/87	615	6.89	169.70	3.50	53.95	0.78	24.97
09/08/87	630	8.04	180.70	2.68	54.44	0.78	24.97

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/08/87	645	8.21	182.30	3.91	54.10	0.78	24.96
09/08/87	700	5.83	193.00	2.68	53.41	0.78	24.96
09/08/87	715	6.27	193.10	1.92	53.35	0.78	24.95
09/08/87	730	6.20	180.80	1.51	52.69	0.78	24.94
09/08/87	745	5.15	191.30	7.48	52.73	0.78	24.94
09/08/87	800	2.32	234.40	14.97	51.17	0.78	24.94
09/08/87	815	3.67	212.00	5.49	50.94	0.78	24.95
09/08/87	830	5.51	210.20	1.51	52.45	0.78	24.95
09/08/87	845	5.96	204.00	1.51	52.15	0.78	24.95
09/08/87	900	6.23	202.30	1.99	52.28	0.78	24.95
09/08/87	915	4.40	209.20	5.50	51.63	0.78	24.95
09/08/87	930	4.03	223.80	2.75	51.71	0.78	24.94
09/08/87	945	2.88	222.70	6.32	52.17	0.78	24.94
09/08/87	1000	2.93	197.00	6.72	53.22	0.78	24.94
09/08/87	1015	3.55	220.90	7.89	54.22	0.78	24.93
09/08/87	1030	3.55	234.30	9.46	55.58	0.78	24.93
09/08/87	1045	4.55	236.90	8.29	56.91	0.78	24.93
09/08/87	1100	4.69	236.90	13.42	58.01	0.78	24.93
09/08/87	1115	4.85	226.60	11.85	59.65	0.78	24.93
09/08/87	1130	5.46	228.20	8.35	60.98	0.78	24.91
09/08/87	1145	6.05	224.40	12.66	61.88	0.78	24.91
09/08/87	1200	5.40	231.10	18.88	63.26	0.78	24.91
09/08/87	1215	5.02	225.60	7.18	64.63	0.78	24.50
09/08/87	1230	5.62	203.40	13.46	65.79	0.78	23.93
09/08/87	1245	5.93	203.70	14.62	66.73	0.78	23.48
09/08/87	1300	6.03	220.30	11.88	68.05	0.78	23.64
09/08/87	1315	5.20	218.60	15.84	69.16	0.78	23.70
09/08/87	1330	4.41	240.60	14.27	70.70	0.78	23.40
09/08/87	1345	4.39	258.90	23.68	71.90	0.78	22.98
09/08/87	1400	4.04	291.20	24.83	73.00	0.78	23.04
09/08/87	1415	4.06	57.47	31.50	74.10	0.78	22.50
09/08/87	1430	4.75	53.97	30.34	74.50	0.78	21.87
09/08/87	1445	5.42	54.98	19.78	75.30	0.78	21.52
09/08/87	1500	7.08	70.80	12.27	75.20	0.78	21.28
09/08/87	1515	7.16	73.80	10.37	75.70	0.78	21.14
09/08/87	1530	7.52	81.90	11.12	75.70	0.78	21.15
09/08/87	1545	7.54	69.70	20.94	76.20	0.78	21.08
09/08/87	1600	8.19	65.00	14.67	76.70	0.78	20.97
09/08/87	1615	8.50	80.00	7.23	76.80	0.78	20.92
09/08/87	1630	7.58	77.30	24.43	77.10	0.78	20.79
09/08/87	1645	5.79	92.30	17.81	77.40	0.78	20.76
09/08/87	1700	5.98	70.90	27.57	78.40	0.78	20.72
09/08/87	1715	7.49	107.60	22.93	77.70	0.78	20.75
09/08/87	1730	4.03	93.40	27.57	78.20	0.78	20.76
09/08/87	1745	2.39	64.94	68.79	79.10	0.78	20.75
09/08/87	1800	3.55	156.10	46.47	78.80	0.78	20.74

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/08/87	1815	3.26	146.40	41.35	78.90	0.78	20.71
09/08/87	1830	3.25	112.00	26.00	79.20	0.78	20.82
09/08/87	1845	6.95	190.60	8.80	78.40	0.78	21.21
09/08/87	1900	3.28	145.50	23.28	79.20	0.78	21.30
09/08/87	1915	4.21	150.70	13.11	78.80	0.78	20.98
09/08/87	1930	5.04	138.40	12.29	78.50	0.78	21.19
09/08/87	1945	4.79	107.60	6.83	78.60	0.78	21.46
09/08/87	2000	6.38	130.00	9.97	78.30	0.78	21.50
09/08/87	2015	8.40	143.70	4.44	77.30	0.78	22.42
09/08/87	2030	5.41	127.60	6.01	76.30	0.78	24.17
09/08/87	2045	5.55	132.90	3.28	74.90	0.78	23.42
09/08/87	2100	5.75	137.20	5.20	73.90	0.78	23.05
09/08/87	2115	5.95	55.64	6.36	72.30	0.78	22.84
09/08/87	2130	5.49	103.00	11.91	73.30	0.78	22.55
09/08/87	2145	4.43	132.50	8.76	72.80	0.78	22.19
09/08/87	2200	4.42	90.90	3.63	71.90	0.78	22.13
09/08/87	2215	4.31	125.40	7.60	71.80	0.78	22.26
09/08/87	2230	2.99	157.00	7.94	71.70	0.78	22.52
09/08/87	2245	3.59	181.20	4.04	71.80	0.78	22.53
09/08/87	2300	6.53	222.90	28.70	70.00	0.78	22.53
09/08/87	2315	6.99	293.30	5.96	71.30	0.78	22.73
09/08/87	2330	10.57	287.30	6.37	71.80	0.78	22.64
09/08/87	2345	6.68	301.20	2.47	70.80	0.78	22.67
09/09/87	0	8.44	318.20	5.55	70.20	0.78	22.66
09/09/87	15	6.10	289.80	4.80	67.64	0.78	23.16
09/09/87	30	5.54	249.10	6.37	67.92	0.78	23.23
09/09/87	45	5.36	250.00	4.80	67.77	0.78	23.28
09/09/87	100	6.46	238.90	3.15	66.87	0.78	23.26
09/09/87	115	6.86	234.60	18.85	64.81	0.78	23.30
09/09/87	130	8.02	212.60	3.56	63.74	0.78	23.48
09/09/87	145	9.42	195.80	2.40	62.43	0.78	24.58
09/09/87	200	9.50	200.40	1.58	63.54	0.78	24.74
09/09/87	215	9.37	203.30	2.74	62.62	0.78	24.72
09/09/87	230	10.64	200.90	1.99	62.41	0.78	24.72
09/09/87	245	10.29	197.30	2.40	61.76	0.78	24.71
09/09/87	300	9.78	186.00	2.33	60.19	0.78	24.75
09/09/87	315	7.93	192.30	3.57	60.36	0.78	24.83
09/09/87	330	7.38	199.20	1.99	60.27	0.78	24.83
09/09/87	345	9.93	200.30	1.58	59.82	0.78	24.84
09/09/87	400	8.58	201.50	1.58	59.32	0.78	24.84
09/09/87	415	8.38	207.80	4.32	59.43	0.78	24.84
09/09/87	430	8.62	210.80	2.[illegible]3	60.64	0.78	24.85
09/09/87	445	8.61	199.20	2.75	60.96	0.78	24.85
09/09/87	500	8.51	199.90	1.92	59.98	0.78	24.85
09/09/87	515	7.98	206.90	1.92	60.77	0.78	24.85
09/09/87	530	8.18	220.70	1.92	62.20	0.78	24.85

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/09/87	545	5.93	229.70	4.73	61.60	0.78	24.85
09/09/87	600	9.69	10.65	7.89	60.50	0.78	24.87
09/09/87	615	19.63	32.09	5.49	58.37	0.78	24.91
09/09/87	630	14.71	24.81	3.91	56.52	0.78	24.91
09/09/87	645	10.02	13.00	4.32	55.38	0.78	24.93
09/09/87	700	9.45	22.03	5.83	54.51	0.78	24.93
09/09/87	715	5.74	348.00	4.32	53.67	0.78	24.96
09/09/87	730	6.84	344.40	8.99	53.15	0.78	24.97
09/09/87	745	4.34	342.70	9.81	53.05	0.78	24.97
09/09/87	800	2.18	350.40	12.56	52.79	0.78	24.96
09/09/87	815	1.79	2.12	10.64	52.81	0.78	24.96
09/09/87	830	2.58	300.30	8.30	52.65	0.78	24.96
09/09/87	845	3.12	299.60	9.06	53.00	0.78	24.96
09/09/87	900	3.03	216.40	12.22	52.66	0.78	24.96
09/09/87	915	3.44	201.20	11.46	52.95	0.78	24.96
09/09/87	930	5.33	195.70	3.57	52.80	0.78	24.95
09/09/87	945	6.25	207.70	3.57	53.13	0.78	24.95
09/09/87	1000	5.01	214.60	3.57	53.13	0.78	24.94
09/09/87	1015	4.17	226.20	3.23	53.37	0.78	24.94
09/09/87	1030	3.88	214.00	3.98	53.87	0.78	24.96
09/09/87	1045	4.33	201.00	8.65	55.29	0.78	24.97
09/09/87	1100	5.56	214.90	11.80	57.21	0.78	24.96
09/09/87	1115	6.52	227.40	9.12	57.91	0.78	24.96
09/09/87	1130	5.87	223.30	21.64	58.81	0.78	24.95
09/09/87	1145	4.26	227.50	28.35	60.13	0.78	24.95
09/09/87	1200	4.00	213.20	22.79	61.15	0.78	24.93
09/09/87	1215	4.30	194.50	11.83	62.17	0.78	24.90
09/09/87	1230	4.55	1[illegible].40	10.66	63.07	0.78	24.84
09/09/87	1245	3.63	120.70	68.68	63.76	0.78	24.78
09/09/87	1300	3.19	108.20	52.67	64.90	0.78	24.59
09/09/87	1315	3.63	47.80	29.84	65.79	0.78	24.76
09/09/87	1330	2.80	151.60	25.53	66.61	0.78	24.56
09/09/87	1345	4.05	100.10	16.25	66.90	0.78	24.22
09/09/87	1400	3.02	107.50	39.72	67.95	0.78	24.19
09/09/87	1415	4.05	76.70	26.00	68.15	0.78	24.11
09/09/87	1430	4.28	90.40	44.42	68.66	0.78	24.09
09/09/87	1445	4.23	67.19	22.52	69.56	0.78	24.06
09/09/87	1500	5.91	59.44	30.71	70.50	0.78	24.06
09/09/87	1515	5.57	66.17	9.55	70.80	0.78	24.00
09/09/87	1530	6.39	76.20	[illegible].54	70.80	0.78	23.97
09/09/87	1545	4.68	75.50	35.0[illegible]	72.60	0.78	23.94
09/09/87	1600	3.74	26.44	26.75	73.90	0.78	23.91
09/09/87	1615	6.06	18.83	10.37	72.80	0.78	23.58
09/09/87	1630	10.03	326.10	9.90	71.40	0.78	23.55
09/09/87	1645	6.40	23.06	15.84	71.60	0.78	23.71
09/09/87	1700	6.30	28.26	17.76	72.40	0.78	23.50

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/09/87	1715	6.88	49.59	31.01	73.70	0.78	23.39
09/09/87	1730	6.70	75.20	13.05	74.90	0.78	23.38
09/09/87	1745	7.57	43.82	16.60	75.40	0.78	23.35
09/09/87	1800	6.62	32.21	11.07	74.80	0.78	23.26
09/09/87	1815	8.90	50.10	5.94	74.10	0.78	23.17
09/09/87	1830	8.98	43.77	13.87	74.90	0.78	23.17
09/09/87	1845	6.07	24.45	6.76	75.30	0.78	23.14
09/09/87	1900	4.33	10.24	22.07	75.40	0.78	23.13
09/09/87	1915	4.91	19.26	19.33	75.90	0.78	23.16
09/09/87	1930	3.87	72.80	25.55	76.00	0.78	23.14
09/09/87	1945	3.37	157.60	16.67	75.50	0.78	23.01
09/09/87	2000	3.45	111.10	11.14	74.10	0.78	23.06
09/09/87	2015	1.99	155.40	5.20	73.50	0.78	23.47
09/09/87	2030	1.85	170.80	8.00	74.70	0.78	23.22
09/09/87	2045	3.01	187.40	5.20	74.10	0.78	23.08
09/09/87	2100	4.12	189.40	2.87	72.90	0.78	24.03
09/09/87	2115	2.87	193.30	6.02	71.90	0.78	24.80
09/09/87	2130	2.08	205.70	5.61	70.60	0.78	24.82
09/09/87	2145	4.30	191.80	2.88	71.50	0.78	24.82
09/09/87	2200	4.48	188.20	4.04	71.40	0.78	24.83
09/09/87	2215	5.62	205.20	13.08	69.86	0.78	24.82
09/09/87	2230	5.64	201.20	2.81	70.10	0.78	24.82
09/09/87	2245	5.98	211.80	2.81	68.76	0.78	24.82
09/09/87	2300	7.86	206.90	2.81	67.81	0.78	24.83
09/09/87	2315	8.46	201.40	2.81	66.99	0.78	24.84
09/09/87	2330	3.81	248.90	13.78	63.86	0.78	24.84
09/09/87	2345	8.79	210.80	2.40	63.75	0.78	24.83
09/10/87	0	9.70	201.80	1.99	63.18	0.78	24.84
09/10/87	15	11.25	204.00	1.65	62.89	0.78	24.84
09/10/87	30	10.71	202.50	1.99	61.33	0.78	24.84
09/10/87	45	9.56	201.20	4.73	60.91	0.78	24.83
09/10/87	100	11.73	198.40	2.40	61.11	0.78	24.82
09/10/87	115	11.56	197.50	3.15	60.56	0.78	24.82
09/10/87	130	11.66	200.20	2.74	59.36	0.78	24.82
09/10/87	145	11.53	197.10	1.99	58.57	0.78	24.83
09/10/87	200	9.98	200.80	2.74	58.40	0.78	24.82
09/10/87	215	11.38	204.10	2.33	58.85	0.78	24.82
09/10/87	230	10.59	204.40	2.74	59.34	0.78	24.82
09/10/87	245	10.04	212.00	2.33	59.60	0.78	24.82
09/10/87	300	7.67	218.60	2.33	59.26	0.78	24.82
09/10/87	315	7.08	223.30	3.16	58.78	0.78	24.82
09/10/87	330	6.77	223.20	3.16	57.95	0.78	24.82
09/10/87	345	8.73	202.40	2.33	58.07	0.78	24.83
09/10/87	400	9.52	196.70	1.92	58.95	0.78	24.84
09/10/87	415	8.27	195.60	1.92	59.01	0.78	24.84
09/10/87	430	8.93	194.10	1.51	58.74	0.78	24.84

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/10/87	445	8.90	195.30	1.92	58.85	0.78	24.84
09/10/87	500	7.82	203.70	1.51	58.85	0.78	24.84
09/10/87	515	6.27	210.60	6.66	58.76	0.78	24.84
09/10/87	530	5.13	232.10	4.32	57.17	0.78	24.84
09/10/87	545	4.28	255.50	6.25	57.91	0.78	24.84
09/10/87	600	4.89	266.30	12.50	57.22	0.78	24.84
09/10/87	615	5.66	325.80	3.98	57.23	0.78	24.84
09/10/87	630	3.28	353.40	4.33	55.97	0.78	24.84
09/10/87	645	0.89	40.57	10.64	53.93	0.78	24.84
09/10/87	700	1.33	281.50	7.48	53.65	0.78	24.85
09/10/87	715	2.44	301.30	17.30	54.66	0.78	24.86
09/10/87	730	1.89	308.60	18.06	54.18	0.78	24.86
09/10/87	745	2.57	221.20	7.14	53.77	0.78	24.86
09/10/87	800	3.07	210.10	9.48	54.08	0.78	24.86
09/10/87	815	3.12	215.10	12.57	54.56	0.78	24.87
09/10/87	830	2.01	193.50	14.56	55.10	0.78	24.87
09/10/87	845	1.97	10.29	17.30	56.11	0.78	24.88
09/10/87	900	4.90	325.20	7.49	56.87	0.78	24.89
09/10/87	915	8.19	338.30	2.40	55.87	0.78	24.90
09/10/87	930	5.76	354.00	6.73	53.95	0.78	24.92
09/10/87	945	5.35	353.10	7.55	54.06	0.78	24.92
09/10/87	1000	7.36	344.40	4.32	56.33	0.78	24.92
09/10/87	1015	7.91	344.50	7.48	57.68	0.78	24.92
09/10/87	1030	8.33	342.40	4.73	58.40	0.78	24.93
09/10/87	1045	8.65	349.40	7.54	58.72	0.78	24.94
09/10/87	1100	10.90	349.80	9.86	58.98	0.78	24.94
09/10/87	1115	8.57	6.58	11.44	59.26	0.78	24.93
09/10/87	1130	9.33	350.50	12.67	59.73	0.78	24.91
09/10/87	1145	9.81	355.50	15.81	59.74	0.78	24.90
09/10/87	1200	8.73	345.90	16.97	60.29	0.78	24.91
09/10/87	1215	6.41	13.47	8.28	60.85	0.78	24.92
09/10/87	1230	5.91	3.40	25.92	61.59	0.78	24.93
09/10/87	1245	6.40	352.00	18.87	61.81	0.78	24.93
09/10/87	1300	6.20	23.01	20.44	62.79	0.78	24.93
09/10/87	1315	3.96	35.69	24.74	63.86	0.78	24.94
09/10/87	1330	5.11	24.00	33.00	63.92	0.78	24.92
09/10/87	1345	3.72	57.50	44.82	64.29	0.78	24.93
09/10/87	1400	4.69	28.97	22.88	65.70	0.78	24.92
09/10/87	1415	6.48	88.90	17.76	65.27	0.78	24.91
09/10/87	1430	6.38	65.44	9.90	65.78	0.78	24.91
09/10/87	1445	4.39	18.19	38.93	65.67	0.78	24.89
09/10/87	1500	5.15	22.74	49.85	66.49	0.78	24.90
09/10/87	1515	5.73	68.60	28.33	67.16	0.78	24.89
09/10/87	1530	4.32	20.61	33.05	67.21	0.78	24.89
09/10/87	1545	5.42	52.04	27.52	67.85	0.78	24.88
09/10/87	1600	3.86	11.97	61.34	67.67	0.78	24.88

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/10/87	1615	5.20	42.71	8.74	67.98	0.78	24.88
09/10/87	1630	5.26	33.68	11.82	68.09	0.78	24.88
09/10/87	1645	8.22	47.95	13.06	68.62	0.78	24.88
09/10/87	1700	9.81	32.38	11.07	68.16	0.78	24.85
09/10/87	1715	8.37	42.00	12.99	68.25	0.78	24.85
09/10/87	1730	6.67	32.80	11.83	68.51	0.78	24.85
09/10/87	1745	7.72	24.56	11.83	69.03	0.78	24.85
09/10/87	1800	6.23	28.92	22.02	68.46	0.78	24.85
09/10/87	1815	8.50	31.24	4.38	68.08	0.78	24.84
09/10/87	1830	7.27	20.95	12.17	68.71	0.78	24.83
09/10/87	1845	8.60	29.74	6.36	68.34	0.78	24.84
09/10/87	1900	7.31	26.53	15.05	68.76	0.78	24.84
09/10/87	1915	7.09	26.92	7.59	68.53	0.78	24.83
09/10/87	1930	6.99	26.95	7.66	67.38	0.78	24.84
09/10/87	1945	5.97	25.54	5.95	67.15	0.78	24.84
09/10/87	2000	6.36	27.32	8.35	67.49	0.78	24.84
09/10/87	2015	6.48	25.13	5.61	67.20	0.78	24.84
09/10/87	2030	5.47	27.80	3.29	67.36	0.78	24.85
09/10/87	2045	6.00	42.22	2.46	66.30	0.78	24.84
09/10/87	2100	6.07	32.05	1.71	64.81	0.78	24.85
09/10/87	2115	9.18	41.59	2.05	62.97	0.78	24.85
09/10/87	2130	15.37	40.19	4.38	60.01	0.78	24.87
09/10/87	2145	18.08	43.47	3.63	56.14	0.78	24.88
09/10/87	2200	10.97	58.88	5.55	55.11	0.78	24.88
09/10/87	2215	9.29	57.35	9.87	54.98	0.78	24.88
09/10/87	2230	6.81	50.17	12.96	54.91	0.78	24.91
09/10/87	2245	7.61	71.00	4.32	53.84	0.01	24.92
09/10/87	2300	5.46	85.90	51.80	53.61	0.04	24.94
09/10/87	2315	8.74	320.20	5.90	52.62	0.04	24.94
09/10/87	2330	5.05	334.30	7.07	52.70	0.04	24.95
09/10/87	2345	3.45	310.00	3.91	52.90	0.04	24.95
09/11/87	0	2.54	282.30	3.91	52.90	0.04	24.95
09/11/87	15	2.35	254.70	12.91	52.65	0.04	24.96
09/11/87	30	3.63	209.60	3.09	52.29	0.04	24.95
09/11/87	45	6.89	209.50	3.09	51.85	0.04	24.95
09/11/87	100	7.23	213.10	1.92	52.00	0.04	24.95
09/11/87	115	7.27	210.60	3.98	51.62	0.04	24.95
09/11/87	130	6.05	192.00	5.08	51.33	0.04	24.95
09/11/87	145	4.62	189.00	1.92	51.02	0.04	24.95
09/11/87	200	5.65	183.40	1.51	50.70	0.04	24.95
09/11/87	215	6.78	184.70	2.68	50.96	0.04	24.94
09/11/87	230	8.13	180.20	1.51	50.71	0.04	24.93
09/11/87	245	7.45	180.70	1.99	50.77	0.04	24.93
09/11/87	300	7.29	177.10	3.16	50.77	0.04	24.92
09/11/87	315	5.49	148.90	8.17	51.12	0.04	24.92
09/11/87	330	5.83	116.10	1.92	50.51	0.04	24.91

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/11/87	345	6.35	130.00	3.09	48.91	0.04	24.91
09/11/87	400	6.50	137.40	3.92	47.81	0.04	24.90
09/11/87	415	6.96	129.80	3.92	46.96	0.04	24.89
09/11/87	430	8.36	142.90	3.92	48.96	0.04	24.89
09/11/87	445	5.08	148.50	23.50	49.18	0.04	24.89
09/11/87	500	3.12	110.00	3.92	46.72	0.04	24.88
09/11/87	515	3.44	86.60	3.92	46.60	0.04	24.88
09/11/87	530	2.87	83.60	2.68	46.27	0.04	24.88
09/11/87	545	3.20	69.43	5.43	46.21	0.04	24.87
09/11/87	600	3.86	49.01	14.91	44.94	0.04	24.87
09/11/87	615	2.36	32.54	10.93	44.29	0.04	24.87
09/11/87	630	1.90	51.65	7.84	44.20	0.04	24.87
09/11/87	645	1.31	65.04	35.60	44.60	0.04	24.87
09/11/87	700	3.37	256.00	3.09	43.98	0.04	24.86
09/11/87	715	3.50	261.70	3.51	43.96	0.04	24.86
09/11/87	730	4.47	248.30	4.26	43.78	0.04	24.86
09/11/87	745	6.41	260.00	3.92	43.79	0.04	24.86
09/11/87	800	6.50	255.90	1.99	44.52	0.04	24.86
09/11/87	815	6.50	250.30	2.34	45.13	0.04	24.86
09/11/87	830	6.89	240.30	2.75	45.40	0.04	24.86
09/11/87	845	6.42	227.00	3.92	45.36	0.04	24.86
09/11/87	900	7.33	220.10	2.75	45.75	0.04	24.85
09/11/87	915	7.27	215.50	1.58	46.46	0.04	24.85
09/11/87	930	6.82	217.20	3.57	47.15	0.04	24.85
09/11/87	945	4.85	210.70	3.98	48.15	0.04	24.85
09/11/87	1000	4.39	213.90	6.25	49.52	0.04	24.85
09/11/87	1015	3.99	242.80	10.64	50.64	0.04	24.85
09/11/87	1030	5.40	312.70	6.72	51.15	0.04	24.85
09/11/87	1045	7.08	325.00	9.46	51.05	0.04	24.85
09/11/87	1100	8.54	331.70	4.73	52.01	0.04	24.85
09/11/87	1115	8.39	321.00	7.13	52.43	0.04	24.85
09/11/87	1130	8.70	324.00	6.37	53.83	0.05	24.86
09/11/87	1145	10.97	330.70	7.95	54.98	0.05	24.86
09/11/87	1200	10.00	329.00	9.52	55.97	0.05	24.86
09/11/87	1215	10.58	333.00	9.51	56.50	0.05	24.86
09/11/87	1230	9.65	350.10	10.61	57.56	0.05	24.86
09/11/87	1245	9.94	349.70	8.76	57.84	0.05	24.87
09/11/87	1300	9.68	349.50	13.00	58.57	0.05	24.87
09/11/87	1315	8.10	4.18	16.14	59.53	0.05	24.87
09/11/87	1330	8.22	8.44	18.47	60.42	0.05	24.87
09/11/87	1345	9.63	343.00	11.42	61.27	0.05	24.86
09/11/87	1400	9.43	352.20	18.46	62.17	0.05	24.85
09/11/87	1415	7.57	5.15	11.83	63.50	0.05	24.85
09/11/87	1430	12.49	28.05	11.83	64.18	0.05	24.86
09/11/87	1445	12.13	32.08	7.18	64.93	0.05	24.85
09/11/87	1500	14.25	39.79	11.49	65.31	0.05	24.85

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/11/87	1515	14.31	48.80	9.50	65.93	0.05	24.85
09/11/87	1530	13.36	53.82	10.67	66.32	0.05	24.85
09/11/87	1545	11.79	46.85	7.93	67.07	0.05	24.85
09/11/87	1600	11.70	49.67	14.22	66.87	0.05	24.85
09/11/87	1615	13.64	45.82	9.09	67.21	0.05	24.84
09/11/87	1630	16.59	47.59	11.08	65.66	0.05	24.84
09/11/87	1645	16.29	37.45	5.13	64.99	0.05	24.84
09/11/87	1700	14.98	32.79	5.61	65.17	0.05	24.84
09/11/87	1715	14.94	40.48	13.89	65.90	0.05	24.84
09/11/87	1730	14.83	36.62	11.08	65.69	0.05	24.84
09/11/87	1745	12.99	39.05	22.92	66.30	0.05	24.84
09/11/87	1800	15.78	42.48	5.88	63.91	0.05	24.84
09/11/87	1815	13.61	51.13	9.51	64.93	0.05	24.84
09/11/87	1830	16.11	44.08	7.19	63.58	0.05	24.84
09/11/87	1845	12.18	40.32	9.93	63.55	0.05	24.85
09/11/87	1900	10.43	50.76	9.11	64.27	0.05	24.85
09/11/87	1915	9.85	59.65	8.08	63.74	0.05	24.85
09/11/87	1930	8.45	65.17	5.96	63.21	0.05	24.85
09/11/87	1945	9.39	73.20	6.37	62.71	0.05	24.86
09/11/87	2000	9.40	90.70	3.63	62.20	0.05	24.87
09/11/87	2015	11.80	102.50	4.80	61.84	0.05	24.87
09/11/87	2030	10.58	101.90	4.04	61.79	0.05	24.86
09/11/87	2045	8.31	107.00	5.21	61.52	0.05	24.86
09/11/87	2100	8.49	108.20	4.39	61.16	0.05	24.86
09/11/87	2115	7.89	109.60	4.80	60.82	0.05	24.87
09/11/87	2130	8.52	118.00	5.96	60.66	0.05	24.87
09/11/87	2145	7.95	127.80	3.22	59.91	0.05	24.87
09/11/87	2200	5.98	124.70	3.15	59.17	0.05	24.87
09/11/87	2215	6.75	131.20	2.74	58.86	0.05	24.87
09/11/87	2230	7.62	127.30	1.99	58.22	0.05	24.87
09/11/87	2245	7.60	130.60	1.17	57.56	0.05	24.87
09/11/87	2300	7.99	137.50	1.99	57.18	0.05	24.87
09/11/87	2315	8.51	149.00	14.13	56.44	0.05	24.88
09/11/87	2330	7.71	159.30	3.16	56.51	0.05	24.88
09/11/87	2345	6.27	161.70	3.57	57.04	0.05	24.89
09/12/87	0	5.60	162.20	4.32	56.95	0.05	24.88
09/12/87	15	5.76	169.30	2.40	57.43	0.05	24.88
09/12/87	30	3.73	154.70	7.07	56.87	0.05	24.88
09/12/87	45	3.86	156.80	5.49	56.67	0.05	24.89
09/12/87	100	4.74	156.40	5.49	56.49	0.05	24.88
09/12/87	115	5.90	169.00	3.57	55.93	0.05	24.88
09/12/87	130	4.43	166.70	1.99	55.24	0.05	24.88
09/12/87	145	4.97	180.00	1.92	55.10	0.05	24.88
09/12/87	200	5.28	172.00	3.50	54.76	0.05	24.88
09/12/87	215	7.79	146.70	4.32	52.71	0.05	24.87
09/12/87	230	9.34	164.50	3.50	53.17	0.05	24.87

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/12/87	245	10.76	161.50	3.50	54.37	0.05	24.87
09/12/87	300	9.49	151.40	5.49	52.74	0.05	24.87
09/12/87	315	8.32	152.50	5.08	51.82	0.05	24.87
09/12/87	330	7.97	151.50	4.33	51.26	0.05	24.86
09/12/87	345	8.20	160.10	3.50	51.38	0.05	24.86
09/12/87	400	10.45	156.70	2.68	53.00	0.05	24.86
09/12/87	415	9.53	154.80	4.26	51.81	0.05	24.85
09/12/87	430	10.60	154.20	3.50	50.82	0.05	24.84
09/12/87	445	9.32	154.00	3.09	49.58	0.05	24.84
09/12/87	500	9.88	160.50	1.99	49.14	0.05	24.84
09/12/87	515	9.43	170.30	2.75	49.49	0.05	24.84
09/12/87	530	7.48	175.90	1.58	49.68	0.05	24.85
09/12/87	545	6.00	181.10	3.16	49.48	0.05	24.85
09/12/87	600	4.94	223.10	3.16	48.92	0.05	24.84
09/12/87	615	5.20	232.80	4.67	49.12	0.05	24.84
09/12/87	630	5.71	214.80	1.58	49.07	0.05	24.84
09/12/87	645	5.42	207.50	2.75	48.80	0.05	24.83
09/12/87	700	6.04	197.40	1.99	49.10	0.05	24.83
09/12/87	715	6.23	207.20	2.34	49.03	0.05	24.83
09/12/87	730	6.34	206.30	2.40	48.65	0.05	24.83
09/12/87	745	7.12	216.30	2.75	48.82	0.05	24.83
09/12/87	800	6.94	214.20	3.16	48.29	0.05	24.82
09/12/87	815	5.87	210.40	2.34	48.37	0.05	24.82
09/12/87	830	6.72	205.70	2.40	48.00	0.05	24.82
09/12/87	845	5.82	204.20	2.40	47.91	0.05	24.82
09/12/87	900	2.79	205.50	41.22	47.58	0.05	24.82
09/12/87	915	3.25	201.00	1.99	47.61	0.05	24.81
09/12/87	930	4.32	194.60	5.56	47.82	0.05	24.81
09/12/87	945	3.62	222.60	7.49	49.10	0.05	24.81
09/12/87	1000	3.65	239.20	5.08	49.69	0.05	24.81
09/12/87	1015	4.53	242.00	3.57	50.53	0.05	24.81
09/12/87	1030	4.12	268.90	14.95	51.52	0.05	24.81
09/12/87	1045	4.09	269.10	16.59	52.49	0.05	24.81
09/12/87	1100	3.87	281.50	13.43	53.45	0.05	24.81
09/12/87	1115	3.69	326.50	9.52	54.18	0.05	24.80
09/12/87	1130	3.17	309.60	16.22	55.11	0.05	24.80
09/12/87	1145	1.93	357.70	20.05	57.78	0.05	24.79
09/12/87	1200	2.67	228.70	20.04	59.01	0.05	24.79
09/12/87	1215	2.53	228.20	40.47	60.08	0.05	24.79
09/12/87	1230	3.06	228.50	27.06	61.31	0.05	24.79
09/12/87	1245	3.49	222.70	17.69	62.86	0.05	24.78
09/12/87	1300	5.13	196.80	16.59	64.10	0.05	24.78
09/12/87	1315	3.61	187.20	30.65	66.24	0.05	24.77
09/12/87	1330	3.70	155.70	28.73	68.50	0.05	24.77
09/12/87	1345	6.13	160.50	17.81	70.00	0.05	24.76
09/12/87	1400	7.09	150.30	18.15	71.90	0.05	24.76

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/12/87	1415	7.67	162.20	10.78	73.30	0.05	24.74
09/12/87	1430	7.86	157.00	7.98	74.40	0.05	24.74
09/12/87	1445	6.59	166.00	17.39	74.90	0.05	24.74
09/12/87	1500	5.04	185.10	21.34	76.00	0.05	24.73
09/12/87	1515	5.08	157.70	26.39	76.30	0.05	24.73
09/12/87	1530	4.56	167.60	17.79	77.00	0.05	24.72
09/12/87	1545	4.03	159.70	27.19	77.90	0.05	24.71
09/12/87	1600	6.36	190.00	25.63	77.40	0.05	24.70
09/12/87	1615	4.60	162.00	23.31	78.60	0.05	24.70
09/12/87	1630	4.59	112.70	42.54	78.90	0.05	24.70
09/12/87	1645	2.98	122.40	75.80	79.70	0.05	24.70
09/12/87	1700	4.34	204.90	18.20	79.90	0.05	24.69
09/12/87	1715	5.84	151.80	7.63	79.50	0.05	24.68
09/12/87	1730	3.46	134.20	30.34	80.60	0.05	24.68
09/12/87	1745	3.50	65.30	20.59	80.80	0.05	24.68
09/12/87	1800	4.08	131.30	17.46	80.40	0.05	24.66
09/12/87	1815	3.41	107.80	46.45	80.80	0.05	24.67
09/12/87	1830	3.50	179.10	13.09	80.70	0.05	24.67
09/12/87	1845	2.06	105.40	55.53	81.90	0.05	24.66
09/12/87	1900	4.14	342.50	10.44	80.50	0.05	24.67
09/12/87	1915	4.89	335.50	6.48	79.70	0.05	24.67
09/12/87	1930	5.75	348.30	8.80	78.70	0.05	24.67
09/12/87	1945	5.36	359.00	12.70	78.70	0.05	24.67
09/12/87	2000	5.02	21.54	5.60	78.40	0.05	24.68
09/12/87	2015	4.15	19.71	8.74	77.50	0.05	24.68
09/12/87	2030	3.39	21.30	5.60	76.70	0.05	24.67
09/12/87	2045	3.64	14.44	2.05	75.00	0.05	24.68
09/12/87	2100	7.74	31.43	10.67	72.00	0.05	24.68
09/12/87	2115	5.63	56.75	9.17	71.10	0.05	24.69
09/12/87	2130	5.95	104.40	20.46	70.90	0.05	24.69
09/12/87	2145	10.44	178.80	5.61	71.90	0.05	24.69
09/12/87	2200	11.27	180.50	3.22	70.80	0.05	24.69
09/12/87	2215	9.84	203.60	3.22	68.80	0.05	24.69
09/12/87	2230	9.11	205.40	2.46	66.66	0.05	24.69
09/12/87	2245	10.59	200.30	2.06	65.98	0.05	24.70
09/12/87	2300	8.51	197.00	4.79	65.38	0.05	24.70
09/12/87	2315	7.57	199.10	2.40	64.90	0.05	24.71
09/12/87	2330	7.70	197.80	3.22	64.34	0.05	24.71
09/12/87	2345	8.44	190.40	4.39	62.86	0.05	24.71
09/13/87	0	9.58	184.10	4.39	61.79	0.05	24.71
09/13/87	15	9.84	193.00	3.98	62.21	0.05	24.71
09/13/87	30	9.80	194.60	3.15	62.18	0.05	24.72
09/13/87	45	9.50	193.80	1.99	61.54	0.05	24.72
09/13/87	100	10.40	193.80	2.40	61.74	0.05	24.72
09/13/87	115	9.15	197.10	5.14	61.55	0.05	24.72
09/13/87	130	9.45	197.90	2.33	60.56	0.05	24.72

APPENDIX B
RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/13/87	145	8.80	199.90	2.33	60.16	0.05	24.72
09/13/87	200	8.90	198.20	1.58	59.62	0.05	24.72
09/13/87	215	9.94	196.10	1.99	59.50	0.05	24.72
09/13/87	230	9.33	198.60	1.99	59.25	0.05	24.72
09/13/87	245	6.36	231.80	10.57	58.19	0.05	24.72
09/13/87	300	4.76	249.10	7.48	58.01	0.05	24.73
09/13/87	315	4.71	231.10	4.32	58.96	0.05	24.73
09/13/87	330	5.39	217.60	2.33	57.74	0.05	24.73
09/13/87	345	5.72	216.10	3.16	58.97	0.05	24.73
09/13/87	400	7.10	214.60	0.82	59.63	0.05	24.73
09/13/87	415	7.65	211.60	1.58	58.72	0.05	24.73
09/13/87	430	6.51	202.40	0.82	59.01	0.05	24.73
09/13/87	445	7.53	200.10	1.17	59.38	0.05	24.73
09/13/87	500	6.82	198.90	3.16	58.64	0.05	24.73
09/13/87	515	7.43	194.00	2.40	57.69	0.05	24.73
09/13/87	530	7.91	198.70	1.10	57.53	0.05	24.73
09/13/87	545	8.29	201.50	1.58	58.16	0.05	24.73
09/13/87	600	9.18	201.50	1.17	57.54	0.05	24.73
09/13/87	615	6.53	206.40	1.99	56.88	0.05	24.73
09/13/87	630	6.49	205.80	1.58	57.10	0.05	24.74
09/13/87	645	7.25	199.80	2.40	57.88	0.05	24.74
09/13/87	700	8.37	193.30	1.58	57.31	0.05	24.74
09/13/87	715	7.79	201.50	1.65	56.32	0.05	24.74
09/13/87	730	7.65	199.50	1.24	56.95	0.05	24.74
09/13/87	745	7.71	197.70	1.99	56.98	0.05	24.74
09/13/87	800	6.58	202.00	2.40	57.26	0.05	24.74
09/13/87	815	7.22	195.10	1.17	57.50	0.05	24.75
09/13/87	830	8.28	191.50	1.17	57.43	0.05	24.75
09/13/87	845	9.39	194.50	2.33	58.09	0.05	24.75
09/13/87	900	9.90	201.90	1.58	58.09	0.05	24.76
09/13/87	915	7.93	198.60	1.99	57.24	0.05	24.76
09/13/87	930	7.47	204.70	3.16	57.16	0.05	24.76
09/13/87	945	10.14	199.40	2.75	58.08	0.05	24.76
09/13/87	1000	9.31	205.90	2.74	60.24	0.05	24.77
09/13/87	1015	9.49	210.00	4.73	62.17	0.05	24.77
09/13/87	1030	11.14	210.20	3.22	63.30	0.05	24.76
09/13/87	1045	10.99	208.20	4.04	64.34	0.05	24.76
09/13/87	1100	12.21	208.60	5.96	65.39	0.05	24.76
09/13/87	1115	12.94	209.50	6.78	66.34	0.05	24.76
09/13/87	1130	12.45	206.60	3.63	68.18	0.05	24.76
09/13/87	1145	11.11	209.00	6.77	69.80	0.05	24.76
09/13/87	1200	10.35	211.30	5.54	71.20	0.05	24.75
09/13/87	1215	8.75	205.70	7.59	72.80	0.05	24.75
09/13/87	1230	8.08	209.40	7.17	74.40	0.05	24.75
09/13/87	1245	7.51	204.30	11.13	75.80	0.05	24.75
09/13/87	1300	6.58	199.00	10.38	77.70	0.05	24.74

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/13/87	1315	6.25	218.70	16.99	79.00	0.05	24.75
09/13/87	1330	5.93	237.50	18.96	80.60	0.05	24.74
09/13/87	1345	5.99	244.20	15.89	80.70	0.05	24.75
09/13/87	1400	6.81	246.90	10.77	81.20	0.05	24.74
09/13/87	1415	6.22	199.00	11.51	81.60	0.05	24.74
09/13/87	1430	3.29	168.50	32.77	83.00	0.05	24.74
09/13/87	1445	6.25	138.50	47.60	82.10	0.05	24.74
09/13/87	1500	4.41	167.50	39.84	82.80	0.05	24.73
09/13/87	1515	6.77	178.60	14.71	82.50	0.05	24.73
09/13/87	1530	5.47	220.10	15.46	82.40	0.05	24.72
09/13/87	1545	6.34	212.00	10.42	82.50	0.05	24.71
09/13/87	1600	6.64	183.10	24.86	83.10	0.05	24.71
09/13/87	1615	6.27	159.30	13.96	83.40	0.05	24.70
09/13/87	1630	6.36	189.00	13.90	83.20	0.05	24.70
09/13/87	1645	5.72	161.10	41.36	83.90	0.05	24.70
09/13/87	1700	6.36	200.80	20.17	82.40	0.05	24.70
09/13/87	1715	6.98	224.20	7.16	82.20	0.05	24.71
09/13/87	1730	10.58	226.60	12.69	82.10	0.05	24.70
09/13/87	1745	20.18	261.20	5.25	81.10	0.05	24.70
09/13/87	1800	18.68	275.50	4.03	80.10	0.05	24.70
09/13/87	1815	16.64	294.70	5.19	79.00	0.05	24.70
09/13/87	1830	15.46	304.90	4.03	78.90	0.05	24.70
09/13/87	1845	14.13	307.00	4.85	78.40	0.05	24.70
09/13/87	1900	12.80	310.30	5.60	78.60	0.05	24.70
09/13/87	1915	10.36	322.80	4.44	78.80	0.05	24.70
09/13/87	1930	8.51	328.70	5.19	77.80	0.05	24.70
09/13/87	1945	6.67	326.20	3.62	76.70	0.05	24.70
09/13/87	2000	6.63	313.30	1.64	75.90	0.05	24.70
09/13/87	2015	6.22	316.00	1.23	75.80	0.05	24.70
09/13/87	2030	5.62	292.10	11.15	75.70	0.05	24.70
09/13/87	2045	12.17	257.30	7.53	74.10	0.05	24.72
09/13/87	2100	28.10	266.60	7.53	74.80	0.05	24.73
09/13/87	2115	18.86	282.10	10.74	75.30	0.05	24.76
09/13/87	2130	14.20	9.73	11.91	73.90	0.05	24.76
09/13/87	2145	9.62	46.80	7.19	73.30	0.05	24.76
09/13/87	2200	5.39	5.41	48.32	72.50	0.05	24.79
09/13/87	2215	15.77	277.40	4.04	68.55	0.05	24.81
09/13/87	2230	11.90	306.90	4.79	67.76	0.05	24.80
09/13/87	2245	7.45	306.80	4.38	67.01	0.05	24.80
09/13/87	2300	5.29	323.50	9.52	66.86	0.05	24.80
09/13/87	2315	7.85	295.50	3.63	66.57	0.05	24.80
09/13/87	2330	8.89	300.20	3.63	66.25	0.05	24.80
09/13/87	2345	6.90	294.60	3.63	65.72	0.05	24.80
09/14/87	0	4.49	281.10	9.87	65.69	0.05	24.80
09/14/87	15	4.79	246.90	6.31	65.51	0.05	24.82
09/14/87	30	5.33	238.40	9.46	65.19	0.05	24.82

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/14/87	45	3.93	228.40	16.11	64.03	0.05	24.82
09/14/87	100	2.43	222.00	16.93	63.72	0.05	24.82
09/14/87	115	1.24	171.80	6.31	63.44	0.05	24.81
09/14/87	130	5.90	205.30	1.99	64.06	0.05	24.81
09/14/87	145	7.59	233.40	2.33	61.90	0.05	24.81
09/14/87	200	5.64	227.20	3.57	61.93	0.05	24.81
09/14/87	215	6.26	213.40	2.33	62.88	0.05	24.81
09/14/87	230	7.60	206.60	2.33	62.60	0.05	24.80
09/14/87	245	9.44	204.40	2.33	61.31	0.05	24.80
09/14/87	300	7.86	197.40	3.98	60.71	0.05	24.80
09/14/87	315	9.09	199.00	2.33	60.25	0.05	24.80
09/14/87	330	10.05	210.10	1.58	59.96	0.05	24.80
09/14/87	345	8.45	212.80	2.74	59.68	0.05	24.80
09/14/87	400	7.14	223.40	2.74	58.91	0.05	24.80
09/14/87	415	6.78	219.70	2.74	58.70	0.05	24.80
09/14/87	430	6.01	226.90	3.50	58.38	0.05	24.80
09/14/87	445	6.92	216.90	12.97	59.62	0.05	24.80
09/14/87	500	5.73	180.30	5.49	59.18	0.05	24.80
09/14/87	515	3.37	174.30	8.65	58.40	0.05	24.81
09/14/87	530	5.77	161.60	1.92	59.34	0.05	24.80
09/14/87	545	6.60	175.90	3.91	58.83	0.05	24.80
09/14/87	600	8.20	162.90	3.91	59.12	0.05	24.80
09/14/87	615	7.01	183.40	3.16	59.28	0.05	24.80
09/14/87	630	5.34	153.50	9.88	60.16	0.05	24.79
09/14/87	645	7.36	193.00	5.56	59.89	0.05	24.78
09/14/87	700	7.02	183.70	4.32	59.75	0.05	24.78
09/14/87	715	6.90	189.30	5.90	59.55	0.05	24.78
09/14/87	730	3.54	174.30	27.03	58.18	0.05	24.78
09/14/87	745	5.79	183.80	6.31	57.33	0.05	24.79
09/14/87	800	3.46	179.00	7.48	57.90	0.05	24.80
09/14/87	815	6.23	188.40	2.33	59.35	0.05	24.80
09/14/87	830	6.46	194.80	1.58	59.64	0.05	24.80
09/14/87	845	7.20	201.60	1.24	59.29	0.05	24.80
09/14/87	900	6.53	192.90	3.98	58.67	0.05	24.81
09/14/87	915	7.58	196.20	3.57	58.61	0.05	24.81
09/14/87	930	7.72	185.90	2.81	57.51	0.05	24.81
09/14/87	945	6.33	207.70	3.57	58.45	0.05	24.81
09/14/87	1000	5.63	213.20	6.31	59.74	0.05	24.81
09/14/87	1015	4.74	232.10	3.56	61.31	0.05	24.81
09/14/87	1030	5.96	236.10	7.19	62.91	0.05	24.81
09/14/87	1045	5.30	243.10	8.35	65.06	0.05	24.81
09/14/87	1100	3.37	257.30	14.65	67.01	0.05	24.80
09/14/87	1115	3.81	282.70	30.30	68.09	0.05	24.80
09/14/87	1130	4.17	3.75	13.06	67.91	0.05	24.79
09/14/87	1145	5.73	18.88	12.23	67.66	0.05	24.80
09/14/87	1200	5.24	10.34	7.17	68.08	0.05	24.81

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/14/87	1215	6.05	23.22	21.65	68.89	0.05	24.80
09/14/87	1230	4.09	20.77	39.34	69.37	0.05	24.81
09/14/87	1245	5.76	5.90	15.36	70.00	0.05	24.80
09/14/87	1300	8.66	345.30	17.75	70.00	0.05	24.80
09/14/87	1315	6.70	1.05	12.63	70.50	0.05	24.80
09/14/87	1330	8.37	7.68	9.14	70.50	0.05	24.80
09/14/87	1345	9.18	6.49	11.12	70.80	0.05	24.80
09/14/87	1400	7.09	1.99	9.96	71.30	0.05	24.80
09/14/87	1415	6.85	4.00	18.15	71.60	0.05	24.79
09/14/87	1430	7.82	5.35	23.26	71.70	0.05	24.78
09/14/87	1445	6.08	4.59	25.58	72.10	0.05	24.78
09/14/87	1500	7.55	1.43	24.02	72.80	0.05	24.77
09/14/87	1515	8.65	35.21	26.33	73.80	0.05	24.77
09/14/87	1530	6.36	37.02	18.15	73.80	0.05	24.76
09/14/87	1545	8.51	42.13	11.87	74.10	0.05	24.76
09/14/87	1600	7.36	76.20	22.11	74.50	0.05	24.76
09/14/87	1615	6.74	54.59	18.15	74.70	0.05	24.76
09/14/87	1630	4.77	10.71	15.08	75.00	0.05	24.75
09/14/87	1645	12.53	30.69	10.71	74.70	0.05	24.74
09/14/87	1700	11.31	41.53	11.12	74.80	0.05	24.73
09/14/87	1715	9.10	30.84	13.11	74.90	0.05	24.73
09/14/87	1730	8.44	21.66	23.62	75.30	0.05	24.72
09/14/87	1745	8.55	37.27	11.54	75.90	0.05	24.71
09/14/87	1800	7.34	33.49	18.57	75.90	0.05	24.71
09/14/87	1815	7.12	4.48	28.00	75.90	0.05	24.70
09/14/87	1830	8.22	26.91	13.11	74.60	0.05	24.71
09/14/87	1845	9.44	57.70	4.85	73.00	0.05	24.71
09/14/87	1900	9.16	36.19	6.77	71.90	0.05	24.72
09/14/87	1915	9.92	16.90	13.81	68.81	0.05	24.71
09/14/87	1930	12.28	342.30	9.17	65.57	0.05	24.72
09/14/87	1945	8.91	1.35	12.66	57.82	0.26	24.74
09/14/87	2000	19.69	327.70	7.12	54.42	0.50	24.75
09/14/87	2015	17.30	333.50	3.56	54.96	0.65	24.77
09/14/87	2030	11.92	330.30	6.31	55.82	0.74	24.78
09/14/87	2045	10.84	322.60	5.49	55.68	0.82	24.80
09/14/87	2100	15.39	327.70	3.15	55.35	0.89	24.82
09/14/87	2115	14.78	318.20	3.16	54.78	0.92	24.82
09/14/87	2130	13.14	330.20	1.99	54.09	0.93	24.82
09/14/87	2145	11.78	337.00	3.57	53.54	0.98	24.83
09/14/87	2200	13.30	333.40	10.98	52.90	0.02	24.83
09/14/87	2215	13.36	310.10	3.50	52.64	0.06	24.85
09/14/87	2230	15.89	310.80	2.75	52.32	0.09	24.85
09/14/87	2245	18.42	317.70	2.75	51.41	0.13	24.85
09/14/87	2300	17.51	313.30	3.16	52.29	0.15	24.85
09/14/87	2315	23.97	308.50	2.75	52.66	0.16	24.84
09/14/87	2330	23.77	317.20	5.49	52.38	0.16	24.84

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/14/87	2345	18.20	336.00	4.67	52.32	0.16	24.85
09/15/87	0	11.66	353.60	5.84	51.87	0.16	24.86
09/15/87	15	17.23	337.20	3.91	52.24	0.16	24.86
09/15/87	30	10.86	347.40	6.25	51.96	0.16	24.86
09/15/87	45	6.76	337.00	8.24	51.73	0.16	24.86
09/15/87	100	6.43	342.10	8.99	51.59	0.16	24.86
09/15/87	115	3.83	340.80	7.83	51.38	0.16	24.86
09/15/87	130	3.77	340.60	7.07	51.32	0.16	24.86
09/15/87	145	5.67	295.80	6.66	51.53	0.16	24.86
09/15/87	200	6.18	282.20	4.26	51.49	0.16	24.86
09/15/87	215	7.92	259.10	5.08	51.38	0.16	24.86
09/15/87	230	7.46	259.00	6.25	51.45	0.16	24.85
09/15/87	245	6.76	295.80	6.66	51.92	0.16	24.84
09/15/87	300	4.46	331.20	13.73	52.11	0.16	24.84
09/15/87	315	3.98	136.60	3.91	52.00	0.16	24.84
09/15/87	330	3.39	109.00	16.13	52.95	0.16	24.84
09/15/87	345	2.46	322.80	4.74	53.30	0.16	24.83
09/15/87	400	7.59	235.10	4.33	52.88	0.16	24.83
09/15/87	415	7.98	220.20	3.50	51.57	0.16	24.82
09/15/87	430	6.78	214.20	3.91	51.32	0.16	24.82
09/15/87	445	5.85	221.20	3.50	51.04	0.16	24.82
09/15/87	500	5.08	208.00	2.68	51.06	0.16	24.81
09/15/87	515	3.77	252.00	3.50	50.93	0.16	24.81
09/15/87	530	3.31	270.50	6.25	51.28	0.16	24.81
09/15/87	545	2.00	288.60	19.16	51.10	0.16	24.81
09/15/87	600	2.10	207.20	4.67	51.16	0.16	24.80
09/15/87	615	2.26	207.30	9.48	51.43	0.16	24.80
09/15/87	630	4.28	169.50	4.74	51.47	0.16	24.80
09/15/87	645	3.73	189.10	11.47	51.75	0.16	24.80
09/15/87	700	2.15	184.20	9.89	51.56	0.16	24.80
09/15/87	715	3.68	190.60	3.91	51.75	0.16	24.79
09/15/87	730	3.98	194.90	4.67	52.17	0.16	24.79
09/15/87	745	4.68	214.40	3.16	52.51	0.16	24.79
09/15/87	800	4.45	213.20	2.75	52.35	0.16	24.79
09/15/87	815	4.41	246.70	6.25	52.03	0.16	24.79
09/15/87	830	5.46	281.50	2.33	52.36	0.16	24.79
09/15/87	845	4.14	300.00	3.57	52.80	0.16	24.79
09/15/87	900	5.06	317.30	2.40	53.01	0.16	24.80
09/15/87	915	3.79	318.60	3.50	53.11	0.16	24.78
09/15/87	930	2.63	340.40	8.24	53.67	0.16	24.78
09/15/87	945	1.56	325.40	21.22	54.08	0.16	24.78
09/15/87	1000	1.81	306.30	7.49	54.55	0.16	24.77
09/15/87	1015	0.57	225.70	23.14	55.06	0.16	24.78
09/15/87	1030	2.93	235.70	4.74	55.12	0.16	24.77
09/15/87	1045	3.43	210.60	7.07	55.15	0.16	24.77
09/15/87	1100	4.04	218.10	8.30	55.52	0.16	24.77

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/15/87	1115	3.09	234.50	8.30	56.25	0.16	24.77
09/15/87	1130	3.96	251.40	6.72	56.93	0.16	24.77
09/15/87	1145	5.42	256.80	15.71	57.43	0.16	24.77
09/15/87	1200	5.46	255.70	5.14	57.94	0.16	24.77
09/15/87	1215	4.42	271.70	8.71	58.56	0.16	24.77
09/15/87	1230	5.10	297.50	8.30	59.47	0.16	24.77
09/15/87	1245	8.75	328.30	9.05	61.06	0.16	24.76
09/15/87	1300	11.19	323.90	6.37	62.20	0.16	24.76
09/15/87	1315	12.16	332.40	4.38	62.98	0.16	24.74
09/15/87	1330	12.57	338.60	8.76	63.07	0.16	24.74
09/15/87	1345	11.27	344.90	9.92	63.61	0.16	24.73
09/15/87	1400	12.69	340.40	8.76	63.97	0.16	24.73
09/15/87	1415	12.75	333.50	8.76	64.00	0.16	24.72
09/15/87	1430	12.53	319.60	8.35	64.42	0.16	24.71
09/15/87	1445	13.47	329.10	10.27	64.59	0.16	24.71
09/15/87	1500	12.71	328.90	10.68	64.27	0.16	24.70
09/15/87	1515	12.11	335.40	3.56	63.91	0.16	24.72
09/15/87	1530	9.27	342.80	6.37	63.66	0.16	24.72
09/15/87	1545	8.68	345.90	7.19	64.23	0.16	24.72
09/15/87	1600	7.14	344.90	12.60	64.09	0.16	24.71
09/15/87	1615	7.73	22.24	9.52	62.94	0.16	24.72
09/15/87	1630	16.74	44.42	4.79	61.39	0.16	24.72
09/15/87	1645	16.40	49.77	11.03	58.37	0.16	24.73
09/15/87	1700	12.92	77.60	4.73	57.38	0.16	24.73
09/15/87	1715	11.05	80.10	7.54	58.03	0.16	24.73
09/15/87	1730	10.20	83.80	8.29	59.55	0.16	24.72
09/15/87	1745	9.53	98.70	15.01	61.14	0.16	24.70
09/15/87	1800	6.12	152.90	15.07	62.76	0.16	24.70
09/15/87	1815	7.46	214.80	7.60	62.82	0.16	24.69
09/15/87	1830	6.07	228.10	5.62	62.46	0.16	24.70
09/15/87	1845	7.33	230.00	9.11	62.40	0.16	24.71
09/15/87	1900	8.66	211.90	9.52	62.83	0.16	24.70
09/15/87	1915	5.30	212.10	10.69	62.77	0.16	24.70
09/15/87	1930	7.02	245.00	4.79	63.19	0.16	24.70
09/15/87	1945	4.57	237.00	22.06	62.51	0.16	24.71
09/15/87	2000	2.06	208.70	5.62	62.52	0.16	24.71
09/15/87	2015	5.20	208.00	2.81	62.32	0.16	24.71
09/15/87	2030	4.34	216.40	9.46	62.14	0.16	24.71
09/15/87	2045	4.92	274.50	5.14	62.01	0.16	24.71
09/15/87	2100	5.32	309.10	9.87	61.81	0.16	24.71
09/15/87	2115	6.24	282.40	3.98	61.56	0.16	24.71
09/15/87	2130	5.01	258.60	5.14	60.68	0.16	24.72
09/15/87	2145	3.49	255.50	13.37	60.07	0.16	24.72
09/15/87	2200	2.68	208.30	5.14	59.46	0.16	24.72
09/15/87	2215	1.92	204.20	9.05	59.93	0.16	24.72
09/15/87	2230	5.26	89.20	8.64	57.53	0.16	24.72

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/15/87	2245	5.98	100.90	4.73	57.22	0.16	24.72
09/15/87	2300	7.35	111.50	6.31	56.65	0.16	24.72
09/15/87	2315	7.39	131.10	1.99	55.58	0.16	24.73
09/15/87	2330	7.31	143.80	4.74	55.42	0.16	24.74
09/15/87	2345	7.29	152.60	1.58	56.41	0.16	24.74
09/16/87	0	5.53	143.60	1.58	58.00	0.16	24.74
09/16/87	15	3.33	134.20	3.91	55.32	0.16	24.74
09/16/87	30	4.64	26.31	6.25	51.88	0.16	24.74
09/16/87	45	3.92	73.30	43.87	51.49	0.16	24.75
09/16/87	100	3.40	215.60	6.66	52.27	0.16	24.74
09/16/87	115	1.61	223.00	25.40	53.15	0.16	24.74
09/16/87	130	0.14	71.40	59.05	52.28	0.16	24.74
09/16/87	145	2.97	85.40	12.09	53.66	0.16	24.74
09/16/87	200	6.84	158.60	3.09	53.33	0.16	24.75
09/16/87	215	8.08	148.40	2.68	54.89	0.16	24.75
09/16/87	230	7.49	145.20	1.58	55.16	0.16	24.75
09/16/87	245	7.14	168.00	5.08	54.55	0.16	24.75
09/16/87	300	2.99	148.60	17.24	50.95	0.16	24.75
09/16/87	315	1.45	137.30	21.91	50.35	0.16	24.75
09/16/87	330	1.25	171.80	9.41	50.39	0.16	24.75
09/16/87	345	1.04	248.20	1.58	50.01	0.16	24.75
09/16/87	400	2.67	192.90	7.49	50.21	0.16	24.75
09/16/87	415	2.92	185.90	30.85	51.45	0.16	24.75
09/16/87	430	3.71	126.90	4.67	51.02	0.16	24.73
09/16/87	445	4.94	137.50	5.08	52.26	0.16	24.74
09/16/87	500	6.90	151.60	10.99	49.53	0.16	24.74
09/16/87	515	5.52	159.20	7.49	48.89	0.16	24.73
09/16/87	530	3.57	131.60	6.32	51.71	0.16	24.73
09/16/87	545	5.41	153.60	7.49	49.73	0.16	24.73
09/16/87	600	7.29	157.10	3.50	50.76	0.16	24.73
09/16/87	615	6.40	152.70	7.90	51.71	0.16	24.73
09/16/87	630	6.98	142.60	3.50	49.12	0.16	24.73
09/16/87	645	5.02	156.60	10.24	47.55	0.16	24.74
09/16/87	700	2.21	138.10	10.24	47.05	0.16	24.74
09/16/87	715	3.60	239.70	9.07	46.73	0.16	24.74
09/16/87	730	4.37	239.30	6.32	45.71	0.16	24.74
09/16/87	745	5.02	227.70	1.58	47.36	0.16	24.74
09/16/87	800	5.26	227.00	9.83	47.35	0.16	24.74
09/16/87	815	6.40	208.90	1.58	47.79	0.16	24.74
09/16/87	830	5.27	212.20	2.75	48.60	0.16	24.74
09/16/87	845	4.58	205.50	4.74	48.86	0.16	24.74
09/16/87	900	2.71	182.30	3.57	47.93	0.16	24.74
09/16/87	915	4.96	190.30	17.25	47.67	0.16	24.74
09/16/87	930	5.03	209.70	3.98	49.04	0.16	24.74
09/16/87	945	5.35	213.20	3.98	48.77	0.16	24.74
09/16/87	1000	5.54	205.00	7.42	49.62	0.16	24.74

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/16/87	1015	6.74	195.60	3.57	50.86	0.16	24.74
09/16/87	1030	6.72	190.30	2.75	52.27	0.16	24.75
09/16/87	1045	6.25	183.20	5.56	53.41	0.16	24.75
09/16/87	1100	4.76	171.60	12.20	54.85	0.16	24.74
09/16/87	1115	4.93	192.50	8.29	56.49	0.16	24.74
09/16/87	1130	3.62	200.10	17.74	57.72	0.16	24.74
09/16/87	1145	3.61	146.20	13.83	59.32	0.16	24.74
09/16/87	1200	4.75	158.30	14.58	60.39	0.16	24.74
09/16/87	1215	4.45	174.50	10.67	61.95	0.16	24.73
09/16/87	1230	4.58	192.60	9.50	63.54	0.16	24.07
09/16/87	1245	4.47	199.60	10.32	64.20	0.16	23.50
09/16/87	1300	3.48	175.20	18.51	66.51	0.16	23.41
09/16/87	1315	2.91	176.70	52.25	68.17	0.16	23.02
09/16/87	1330	2.73	93.60	19.74	68.75	0.16	22.78
09/16/87	1345	3.69	71.60	15.77	70.70	0.16	22.62
09/16/87	1400	5.09	54.25	32.70	71.40	0.16	22.20
09/16/87	1415	7.56	57.54	9.97	71.50	0.16	21.71
09/16/87	1430	7.00	50.06	11.88	71.80	0.16	21.41
09/16/87	1445	7.22	54.32	17.00	72.30	0.16	21.29
09/16/87	1500	9.29	64.70	9.15	72.00	0.16	21.13
09/16/87	1515	10.70	55.12	8.33	72.80	0.16	20.91
09/16/87	1530	10.14	55.26	5.94	72.90	0.16	20.99
09/16/87	1545	12.51	43.67	9.08	72.80	0.16	21.21
09/16/87	1600	12.11	49.13	9.90	73.00	0.16	21.22
09/16/87	1615	13.74	38.97	6.35	72.30	0.16	21.30
09/16/87	1630	11.16	35.79	5.54	70.90	0.16	23.72
09/16/87	1645	6.84	43.13	14.15	71.50	0.16	21.62
09/16/87	1700	7.04	70.40	10.32	73.00	0.16	22.61
09/16/87	1715	6.54	55.07	13.47	72.60	0.16	23.68
09/16/87	1730	6.41	33.95	8.75	72.80	0.16	24.68
09/16/87	1745	7.45	32.48	9.50	72.50	0.16	24.68
09/16/87	1800	7.34	37.70	8.75	71.70	0.16	23.62
09/16/87	1815	6.42	65.90	11.49	71.10	0.16	21.61
09/16/87	1830	4.65	109.20	9.10	70.80	0.16	21.38
09/16/87	1845	3.05	105.40	7.94	70.40	0.16	22.11
09/16/87	1900	10.87	326.60	8.35	69.78	0.16	24.69
09/16/87	1915	21.86	316.10	3.69	65.92	0.16	24.72
09/16/87	1930	13.43	318.40	5.20	64.78	0.16	24.72
09/16/87	1945	7.70	355.00	8.76	65.10	0.16	24.72
09/16/87	2000	7.03	29.94	16.98	64.79	0.16	24.72
09/16/87	2015	9.10	316.60	7.19	65.12	0.16	24.73
09/16/87	2030	12.53	300.40	4.38	64.54	0.16	24.74
09/16/87	2045	11.42	303.70	4.38	63.65	0.16	23.60
09/16/87	2100	9.14	320.10	4.80	63.85	0.16	23.00
09/16/87	2115	7.33	11.60	7.95	64.81	0.16	22.71
09/16/87	2130	8.81	19.91	15.76	65.11	0.16	22.60

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/16/87	2145	6.40	257.30	4.80	64.57	0.16	22.44
09/16/87	2200	4.90	290.00	7.54	64.76	0.16	22.44
09/16/87	2215	17.51	21.50	4.73	61.46	0.16	24.76
09/16/87	2230	17.16	43.16	3.15	58.34	0.16	24.79
09/16/87	2245	10.35	29.43	3.57	57.46	0.16	24.80
09/16/87	2300	9.81	21.51	3.15	57.18	0.16	24.80
09/16/87	2315	6.03	14.23	3.57	56.73	0.16	24.82
09/16/87	2330	5.72	22.17	3.57	56.49	0.16	24.83
09/16/87	2345	5.10	347.30	4.73	55.70	0.16	24.84
09/17/87	0	6.99	342.00	3.16	55.50	0.16	24.85
09/17/87	15	6.79	330.80	3.57	55.37	0.16	24.85
09/17/87	30	4.64	343.30	6.25	54.69	0.16	24.85
09/17/87	45	4.31	330.90	2.33	54.33	0.16	24.86
09/17/87	100	4.10	321.20	5.49	54.64	0.16	24.87
09/17/87	115	5.02	317.70	3.91	54.89	0.16	24.87
09/17/87	130	4.17	333.30	10.23	54.34	0.16	24.88
09/17/87	145	2.79	347.10	4.67	54.15	0.16	24.88
09/17/87	200	2.46	11.34	1.92	54.56	0.16	24.89
09/17/87	215	2.25	1.18	6.25	54.35	0.16	24.89
09/17/87	230	2.28	351.40	17.64	53.72	0.16	24.89
09/17/87	245	7.87	302.70	5.83	54.02	0.16	24.91
09/17/87	300	10.47	316.70	8.65	52.53	0.23	24.92
09/17/87	315	2.43	352.20	7.41	51.76	0.24	24.92
09/17/87	330	4.04	58.82	12.49	51.27	0.26	24.92
09/17/87	345	8.50	103.70	3.50	51.02	0.27	24.89
09/17/87	400	8.41	98.60	3.91	51.07	0.27	24.87
09/17/87	415	8.38	179.80	18.40	51.60	0.33	24.87
09/17/87	430	7.99	213.30	21.15	51.04	0.37	24.87
09/17/87	445	9.20	239.30	3.91	51.22	0.38	24.87
09/17/87	500	12.33	227.40	3.91	51.78	0.38	24.87
09/17/87	515	19.47	201.10	5.08	51.91	0.38	24.86
09/17/87	530	22.59	176.30	4.33	52.16	0.38	24.84
09/17/87	545	21.72	179.30	3.98	52.37	0.38	24.85
09/17/87	600	16.23	174.40	5.08	52.45	0.38	24.85
09/17/87	615	11.70	178.10	7.07	52.51	0.38	24.86
09/17/87	630	5.76	219.90	23.14	52.08	0.38	24.86
09/17/87	645	5.62	336.70	18.82	50.82	0.38	24.86
09/17/87	700	3.70	17.65	5.08	50.49	0.38	24.87
09/17/87	715	4.23	24.22	7.83	50.56	0.38	24.89
09/17/87	730	4.21	60.99	5.08	50.19	0.38	24.89
09/17/87	745	4.61	81.90	6.66	50.58	0.38	24.89
09/17/87	800	4.74	70.90	5.84	49.82	0.39	24.89
09/17/87	815	4.96	64.74	4.33	48.87	0.39	24.90
09/17/87	830	4.75	324.70	11.06	48.93	0.39	24.91
09/17/87	845	5.74	320.60	6.32	49.04	0.38	24.92
09/17/87	900	6.96	335.30	3.92	48.69	0.39	24.92

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/17/87	915	5.53	345.60	8.24	48.76	0.38	24.92
09/17/87	930	5.31	0.67	11.06	48.83	0.39	24.92
09/17/87	945	6.83	13.92	4.33	48.76	0.38	24.92
09/17/87	1000	8.09	21.02	6.25	48.87	0.39	24.92
09/17/87	1015	5.91	3.57	8.65	48.62	0.39	24.94
09/17/87	1030	6.64	10.11	6.25	48.07	0.38	24.94
09/17/87	1045	8.27	31.92	4.67	47.95	0.38	24.94
09/17/87	1100	7.13	32.32	5.50	48.11	0.38	24.95
09/17/87	1115	9.23	47.94	5.08	48.31	0.38	24.95
09/17/87	1130	8.30	67.98	6.32	48.55	0.39	24.96
09/17/87	1145	8.28	73.60	3.98	48.59	0.38	24.96
09/17/87	1200	7.62	53.94	6.25	48.77	0.38	24.96
09/17/87	1215	9.21	54.53	9.47	48.84	0.38	24.96
09/17/87	1230	9.16	75.80	5.08	49.06	0.38	24.96
09/17/87	1245	8.97	78.30	6.66	49.25	0.38	24.96
09/17/87	1300	8.71	76.90	5.08	49.13	0.38	24.96
09/17/87	1315	7.73	50.83	5.84	49.36	0.38	24.96
09/17/87	1330	7.83	41.79	5.49	49.29	0.38	24.96
09/17/87	1345	8.31	48.32	7.48	49.55	0.38	24.96
09/17/87	1400	8.90	44.07	8.99	49.71	0.38	24.96
09/17/87	1415	7.92	38.16	9.89	49.56	0.38	24.96
09/17/87	1430	8.06	32.19	8.65	49.57	0.38	24.96
09/17/87	1445	7.96	27.33	7.07	49.45	0.38	24.96
09/17/87	1500	8.74	41.69	7.48	49.57	0.38	24.96
09/17/87	1515	8.19	42.47	4.33	49.63	0.38	24.96
09/17/87	1530	7.08	34.45	10.57	49.75	0.38	24.96
09/17/87	1545	6.32	30.02	8.24	49.66	0.38	24.96
09/17/87	1600	5.58	15.24	7.07	49.07	0.38	24.96
09/17/87	1615	6.84	22.14	5.49	48.87	0.38	24.96
09/17/87	1630	7.29	19.52	6.66	48.73	0.38	24.95
09/17/87	1645	5.52	13.64	8.58	48.63	0.38	24.95
09/17/87	1700	6.91	24.68	3.50	48.43	0.38	24.95
09/17/87	1715	6.33	20.96	5.84	48.27	0.38	24.95
09/17/87	1730	6.49	35.33	10.99	48.44	0.38	24.95
09/17/87	1745	6.00	46.11	5.49	48.54	0.38	24.95
09/17/87	1800	5.93	34.13	10.99	48.45	0.38	24.95
09/17/87	1815	6.20	33.11	5.84	48.50	0.38	24.95
09/17/87	1830	5.30	33.21	7.48	48.67	0.38	24.95
09/17/87	1845	5.51	8.25	11.74	47.93	0.38	24.95
09/17/87	1900	8.22	17.03	5.49	47.17	0.39	24.95
09/17/87	1915	5.98	2.84	5.49	46.99	0.39	24.96
09/17/87	1930	5.66	13.27	5.49	46.94	0.40	24.97
09/17/87	1945	6.40	26.72	6.66	47.24	0.39	24.97
09/17/87	2000	7.62	29.02	4.39	47.52	0.39	24.97
09/17/87	2015	10.14	34.48	5.50	47.19	0.40	24.98
09/17/87	2030	11.56	37.94	3.98	45.82	0.41	24.99

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/17/87	2045	9.95	39.53	4.40	45.78	0.41	24.99
09/17/87	2100	9.65	38.53	4.74	45.88	0.41	24.99
09/17/87	2115	7.56	42.98	4.74	46.02	0.41	25.00
09/17/87	2130	4.70	32.26	7.08	46.20	0.41	25.00
09/17/87	2145	2.80	19.14	3.16	46.45	0.41	25.01
09/17/87	2200	2.04	9.20	12.98	46.64	0.41	25.01
09/17/87	2215	1.11	335.90	10.24	46.80	0.41	25.02
09/17/87	2230	1.60	23.20	3.16	46.89	0.41	25.02
09/17/87	2245	1.34	354.40	14.56	47.04	0.41	25.02
09/17/87	2300	1.26	325.40	6.32	47.05	0.41	25.02
09/17/87	2315	1.26	288.30	1.99	47.16	0.41	25.02
09/17/87	2330	2.28	273.20	2.40	47.38	0.41	25.04
09/17/87	2345	3.31	245.70	4.74	47.49	0.41	25.04
09/18/87	0	5.43	219.10	2.34	47.45	0.41	25.03
09/18/87	15	5.39	217.90	3.98	47.25	0.41	25.04
09/18/87	30	4.36	203.20	2.75	47.13	0.41	25.04
09/18/87	45	4.84	208.10	2.68	47.21	0.41	25.03
09/18/87	100	5.79	218.00	3.92	47.18	0.41	25.03
09/18/87	115	6.50	211.60	3.98	46.95	0.41	25.03
09/18/87	130	6.95	216.70	3.16	46.80	0.41	25.02
09/18/87	145	5.90	221.10	3.57	46.77	0.41	25.02
09/18/87	200	5.82	215.70	3.16	46.72	0.41	25.02
09/18/87	215	5.47	216.20	3.16	46.66	0.41	25.02
09/18/87	230	4.53	200.20	9.00	46.61	0.41	25.02
09/18/87	245	1.89	180.00	12.57	46.31	0.41	25.01
09/18/87	300	1.80	202.20	6.66	45.89	0.41	25.01
09/18/87	315	4.79	212.00	2.34	45.80	0.41	25.00
09/18/87	330	5.71	204.80	2.34	45.64	0.41	25.00
09/18/87	345	4.67	198.80	3.16	45.48	0.41	25.00
09/18/87	400	5.05	192.00	1.99	45.69	0.41	24.99
09/18/87	415	4.10	184.10	2.34	45.30	0.41	24.99
09/18/87	430	3.30	164.90	8.24	44.92	0.41	24.98
09/18/87	445	4.70	167.20	1.51	45.43	0.41	24.98
09/18/87	500	5.96	173.60	2.68	44.87	0.41	24.98
09/18/87	515	5.04	178.60	3.92	44.30	0.41	24.98
09/18/87	530	3.28	172.40	8.93	43.59	0.41	24.98
09/18/87	545	2.33	65.37	30.11	41.96	0.41	24.97
09/18/87	600	3.84	155.20	4.26	41.37	0.41	24.97
09/18/87	615	3.04	153.00	13.34	40.78	0.41	24.97
09/18/87	630	5.82	194.20	11.34	41.64	0.41	24.97
09/18/87	645	4.03	225.70	8.59	42.34	0.41	24.97
09/18/87	700	3.78	243.10	6.26	42.62	0.41	24.97
09/18/87	715	1.32	239.40	39.53	42.36	0.41	24.97
09/18/87	730	0.94	343.70	37.96	41.26	0.41	24.97
09/18/87	745	1.68	49.14	3.51	40.51	0.41	24.97
09/18/87	800	1.76	57.15	5.78	40.18	0.41	24.97

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/18/87	815	1.79	74.10	3.51	41.01	0.41	24.97
09/18/87	830	0.97	93.60	1.51	41.31	0.41	24.96
09/18/87	845	1.12	236.30	3.51	41.12	0.41	24.96
09/18/87	900	2.57	248.90	4.68	39.62	0.41	24.96
09/18/87	915	2.44	264.10	7.43	39.32	0.41	24.96
09/18/87	930	3.15	281.00	12.93	39.77	0.41	24.95
09/18/87	945	1.79	292.10	11.69	40.14	0.41	24.95
09/18/87	1000	1.36	267.80	17.67	40.85	0.41	24.95
09/18/87	1015	1.82	251.70	18.84	41.37	0.41	24.95
09/18/87	1030	2.58	235.70	12.99	41.35	0.41	24.95
09/18/87	1045	2.75	206.80	9.83	41.79	0.41	24.95
09/18/87	1100	3.56	199.70	13.40	42.41	0.41	24.95
09/18/87	1115	4.72	203.20	10.24	42.77	0.41	24.95
09/18/87	1130	4.83	206.10	12.99	42.93	0.41	24.95
09/18/87	1145	4.27	235.70	7.90	44.58	0.41	24.93
09/18/87	1200	4.10	246.20	8.24	47.01	0.41	24.93
09/18/87	1215	4.13	237.10	12.55	49.11	0.41	24.91
09/18/87	1230	3.18	255.90	11.79	51.25	0.41	24.91
09/18/87	1245	3.70	245.30	45.55	53.06	0.41	24.91
09/18/87	1300	2.70	238.50	48.67	55.44	0.41	24.90
09/18/87	1315	2.99	235.60	14.23	57.20	0.41	24.89
09/18/87	1330	2.99	256.80	21.61	58.57	0.41	24.88
09/18/87	1345	2.14	268.70	42.04	59.87	0.41	24.87
09/18/87	1400	2.57	155.40	48.31	61.33	0.41	24.86
09/18/87	1415	2.57	0.35	35.39	62.49	0.41	24.85
09/18/87	1430	5.04	8.29	20.90	61.80	0.41	24.85
09/18/87	1445	5.90	39.03	19.33	62.59	0.41	24.85
09/18/87	1500	5.42	50.39	14.62	63.81	0.41	24.83
09/18/87	1515	7.10	30.05	11.07	63.40	0.41	24.83
09/18/87	1530	6.90	28.05	16.60	63.57	0.41	24.84
09/18/87	1545	6.69	35.35	15.37	64.53	0.41	24.82
09/18/87	1600	7.90	39.32	10.66	65.07	0.41	24.82
09/18/87	1615	9.32	32.56	13.46	65.53	0.41	24.82
09/18/87	1630	8.91	36.71	11.83	66.34	0.41	24.81
09/18/87	1645	9.92	42.18	13.06	67.53	0.41	24.80
09/18/87	1700	9.95	58.79	10.66	68.44	0.41	24.79
09/18/87	1715	12.85	52.70	9.09	68.09	0.41	24.79
09/18/87	1730	13.67	49.74	4.79	67.92	0.41	24.79
09/18/87	1745	15.88	45.92	6.77	67.82	0.41	24.79
09/18/87	1800	15.43	49.60	6.77	67.83	0.41	24.79
09/18/87	1815	14.49	49.76	8.34	67.86	0.41	24.79
09/18/87	1830	14.85	42.98	3.97	67.85	0.41	24.79
09/18/87	1845	13.72	41.28	6.36	67.89	0.41	24.79
09/18/87	1900	15.99	47.11	4.45	67.82	0.41	24.79
09/18/87	1915	13.45	46.72	4.45	67.95	0.41	24.79
09/18/87	1930	13.07	54.94	5.95	67.75	0.41	24.79

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/18/87	1945	11.96	54.31	5.61	67.50	0.41	24.79
09/18/87	2000	8.88	60.31	5.61	67.27	0.41	24.79
09/18/87	2015	7.05	61.74	4.79	66.54	0.41	24.79
09/18/87	2030	6.10	43.73	3.29	64.86	0.41	24.80
09/18/87	2045	6.74	28.04	1.71	62.12	0.41	24.80
09/18/87	2100	6.74	24.22	2.47	60.31	0.41	24.82
09/18/87	2115	6.85	20.54	2.06	59.48	0.41	24.84
09/18/87	2130	5.99	22.15	3.98	58.47	0.41	24.84
09/18/87	2145	7.26	38.30	2.40	57.73	0.41	24.86
09/18/87	2200	6.14	44.26	1.58	57.35	0.41	24.86
09/18/87	2215	4.10	58.28	7.89	55.89	0.41	24.86
09/18/87	2230	1.86	24.68	3.57	54.88	0.41	24.87
09/18/87	2245	2.82	34.07	5.49	54.36	0.41	24.88
09/18/87	2300	5.06	59.21	9.40	54.00	0.41	24.90
09/18/87	2315	5.00	93.50	7.07	53.48	0.41	24.90
09/18/87	2330	4.21	80.80	5.84	53.79	0.41	24.91
09/18/87	2345	2.74	91.60	13.73	53.19	0.41	24.92
09/19/87	0	3.57	110.80	4.74	53.22	0.41	24.92
09/19/87	15	1.40	67.92	40.38	51.50	0.41	24.93
09/19/87	30	2.03	312.00	5.15	50.96	0.41	24.93
09/19/87	45	4.72	321.20	2.40	52.33	0.41	24.94
09/19/87	100	5.70	313.70	2.75	52.42	0.41	24.95
09/19/87	115	6.56	288.30	8.24	51.04	0.41	24.95
09/19/87	130	4.22	257.10	9.00	48.94	0.41	24.95
09/19/87	145	4.46	250.60	21.99	49.32	0.41	24.95
09/19/87	200	3.78	249.60	16.90	49.61	0.41	24.95
09/19/87	215	2.86	228.10	6.25	49.53	0.41	24.95
09/19/87	230	2.69	221.30	16.08	50.94	0.41	24.95
09/19/87	245	3.63	219.20	5.50	51.60	0.41	24.95
09/19/87	300	3.33	208.00	5.08	51.36	0.41	24.94
09/19/87	315	4.46	208.80	2.34	52.13	0.41	24.94
09/19/87	330	6.60	194.10	1.58	51.98	0.41	24.94
09/19/87	345	6.71	187.00	2.34	52.10	0.41	24.94
09/19/87	400	6.95	184.60	0.34	52.47	0.41	24.94
09/19/87	415	6.01	175.50	0.76	52.68	0.41	24.94
09/19/87	430	4.94	166.50	1.92	53.00	0.41	24.94
09/19/87	445	6.55	177.00	20.41	49.88	0.41	24.94
09/19/87	500	7.90	188.80	1.93	46.96	0.41	24.94
09/19/87	515	8.05	191.40	2.34	47.01	0.41	24.93
09/19/87	530	7.34	191.30	0.76	46.46	0.41	24.93
09/19/87	545	6.91	186.90	1.10	46.36	0.41	24.93
09/19/87	600	7.02	185.40	1.51	46.22	0.41	24.92
09/19/87	615	5.91	184.60	2.68	45.05	0.41	24.92
09/19/87	630	4.08	173.10	6.26	43.43	0.41	24.92
09/19/87	645	4.87	161.30	5.84	42.15	0.41	24.92
09/19/87	700	6.61	180.50	1.93	43.91	0.41	24.92

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/19/87	715	6.96	185.40	1.93	43.52	0.41	24.92
09/19/87	730	6.93	189.80	0.76	43.20	0.41	24.92
09/19/87	745	5.71	188.40	6.60	42.64	0.41	24.92
09/19/87	800	5.62	191.60	1.51	42.46	0.41	24.92
09/19/87	815	6.02	179.90	1.51	42.33	0.41	24.92
09/19/87	830	5.94	179.90	0.76	41.90	0.41	24.92
09/19/87	845	6.96	188.70	1.10	42.50	0.41	24.92
09/19/87	900	5.86	192.40	4.26	42.00	0.41	24.92
09/19/87	915	4.49	208.70	3.44	41.25	0.41	24.92
09/19/87	930	4.33	218.30	3.51	41.41	0.41	24.92
09/19/87	945	2.97	215.90	6.67	42.07	0.41	24.92
09/19/87	1000	2.09	215.20	0.89	43.17	0.00	24.90
09/19/87	1015	0.67	167.50	0.82	17.99	0.00	23.59
09/19/87	1030	0.65	167.60	0.89	18.01	0.00	23.59
09/19/87	1045	0.65	167.60	0.89	18.01	0.00	23.59
09/19/87	1100	0.65	167.60	0.89	18.01	0.00	23.59
09/19/87	1115	0.64	167.60	0.89	18.01	0.00	23.59
09/19/87	1130	0.64	167.60	0.89	18.01	0.00	23.59
09/19/87	1145	0.64	167.60	0.89	18.01	0.00	23.59
09/19/87	1200	0.64	167.70	0.96	18.02	0.00	23.59
09/19/87	1215	0.64	167.60	0.89	18.02	0.00	23.59
09/19/87	1230	0.65	167.40	0.96	18.01	0.00	23.59
09/19/87	1245	0.66	167.30	0.89	18.00	0.00	23.59
09/19/87	1300	0.67	167.10	0.89	18.01	0.00	23.59
09/19/87	1315	0.66	167.00	0.89	18.01	0.00	23.59
09/19/87	1330	1.68	16.69	20.09	38.24	0.00	24.24
09/19/87	1345	4.03	10.86	26.71	59.83	0.00	24.91
09/19/87	1400	4.34	12.55	35.38	60.42	0.00	24.91
09/19/87	1415	4.43	19.17	29.85	61.78	0.00	24.91
09/19/87	1430	4.78	16.19	21.65	61.83	0.00	24.91
09/19/87	1445	4.57	32.60	26.71	62.20	0.00	24.91
09/19/87	1500	4.31	37.11	38.12	62.78	0.00	24.91
09/19/87	1515	6.78	41.52	10.32	63.99	0.00	24.91
09/19/87	1530	6.15	45.96	19.74	64.14	0.00	24.91
09/19/87	1545	6.39	34.49	23.58	64.25	0.00	24.89
09/19/87	1600	4.25	23.76	10.32	64.53	0.00	24.89
09/19/87	1615	5.75	13.68	9.50	65.97	0.00	24.89
09/19/87	1630	7.82	38.75	15.04	66.73	0.00	24.88
09/19/87	1645	5.64	17.56	7.59	66.71	0.00	24.88
09/19/87	1700	7.51	24.92	13.46	66.70	0.00	24.88
09/19/87	1715	7.93	29.94	13.87	67.26	0.00	24.88
09/19/87	1730	7.43	24.82	7.93	67.23	0.00	24.88
09/19/87	1745	7.91	33.18	10.32	67.32	0.00	24.88
09/19/87	1800	5.00	15.34	14.22	67.31	0.00	24.88
09/19/87	1815	4.26	84.10	17.77	68.01	0.00	24.88
09/19/87	1830	4.53	121.10	19.76	68.17	0.00	24.88

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/19/87	1845	3.19	62.35	18.94	68.72	0.00	24.87
09/19/87	1900	3.35	38.09	15.04	68.68	0.00	24.88
09/19/87	1915	4.31	22.91	8.00	68.03	0.00	24.88
09/19/87	1930	3.10	22.32	14.23	67.16	0.00	24.88
09/19/87	1945	3.02	347.30	7.18	66.40	0.00	24.88
09/19/87	2000	3.27	54.90	6.84	67.15	0.00	24.88
09/19/87	2015	2.95	19.87	11.09	65.55	0.00	24.89
09/19/87	2030	3.85	332.70	1.64	65.44	0.00	24.89
09/19/87	2045	6.72	326.30	3.22	65.48	0.00	24.89
09/19/87	2100	3.23	78.60	5.21	64.82	0.00	24.89
09/19/87	2115	2.70	68.14	49.81	63.47	0.00	24.89
09/19/87	2130	4.13	303.50	19.26	63.19	0.00	24.91
09/19/87	2145	1.09	23.21	18.85	61.90	0.00	24.91
09/19/87	2200	2.69	53.42	4.32	60.64	0.00	24.91
09/19/87	2215	2.88	71.50	5.90	60.30	0.00	24.91
09/19/87	2230	2.41	48.42	3.91	60.63	0.00	24.91
09/19/87	2245	4.34	84.30	3.91	61.41	0.00	24.92
09/19/87	2300	4.81	100.40	5.83	62.35	0.00	24.93
09/19/87	2315	4.81	118.70	4.32	62.83	0.00	24.93
09/19/87	2330	5.72	123.20	3.91	63.07	0.00	24.94
09/19/87	2345	7.02	113.90	3.50	61.91	0.00	24.94
09/20/87	0	9.14	140.70	2.33	59.21	0.00	24.94
09/20/87	15	8.70	156.80	1.51	61.27	0.00	24.94
09/20/87	30	3.58	18.22	15.24	53.58	0.00	24.95
09/20/87	45	1.07	316.00	49.30	52.18	0.00	24.95
09/20/87	100	2.13	227.90	15.24	55.04	0.00	24.95
09/20/87	115	7.42	114.60	3.50	53.37	0.00	24.95
09/20/87	130	9.46	123.50	2.68	53.09	0.00	24.95
09/20/87	145	10.06	140.50	1.58	56.61	0.00	24.96
09/20/87	200	7.45	137.00	7.83	58.72	0.00	24.96
09/20/87	215	5.41	132.80	1.85	58.10	0.00	24.96
09/20/87	230	5.12	158.30	4.74	57.20	0.00	24.97
09/20/87	245	2.17	199.10	9.00	56.17	0.00	24.97
09/20/87	300	2.02	263.10	9.07	51.93	0.00	24.97
09/20/87	315	3.83	246.10	8.24	49.60	0.00	24.97
09/20/87	330	4.51	226.80	9.48	49.35	0.00	24.98
09/20/87	345	5.20	227.50	2.40	50.38	0.00	24.98
09/20/87	400	5.44	228.20	12.16	49.95	0.00	24.98
09/20/87	415	2.83	251.90	4.33	48.86	0.00	24.98
09/20/87	430	2.57	230.70	7.08	48.93	0.00	24.98
09/20/87	445	3.15	223.10	4.74	48.36	0.00	24.98
09/20/87	500	2.93	223.30	7.08	47.59	0.00	24.98
09/20/87	515	4.82	212.50	2.34	48.78	0.00	24.98
09/20/87	530	7.56	207.90	0.41	49.65	0.00	24.97
09/20/87	545	10.33	200.60	1.99	47.72	0.00	24.96
09/20/87	600	11.99	204.10	2.40	47.54	0.00	24.95

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/20/87	615	7.88	205.50	56.83	46.95	0.00	24.95
09/20/87	630	5.46	184.50	7.90	46.50	0.00	24.95
09/20/87	645	6.37	207.80	21.58	47.45	0.00	24.95
09/20/87	700	5.12	193.40	1.99	47.23	0.00	24.95
09/20/87	715	7.61	200.90	4.33	47.59	0.00	24.95
09/20/87	730	7.25	196.70	1.58	46.76	0.00	24.95
09/20/87	745	7.72	199.50	1.99	46.70	0.00	24.95
09/20/87	800	10.16	207.00	1.99	47.60	0.00	24.95
09/20/87	815	7.13	208.90	2.75	47.58	0.00	24.95
09/20/87	830	4.52	139.80	41.16	46.77	0.00	24.95
09/20/87	845	4.53	167.00	12.16	47.20	0.00	24.95
09/20/87	900	3.78	83.70	11.41	46.55	0.00	24.96
09/20/87	915	5.63	125.70	4.74	47.91	0.00	24.97
09/20/87	930	7.01	150.60	5.08	48.35	0.00	24.97
09/20/87	945	5.74	167.10	5.08	47.96	0.00	24.97
09/20/87	1000	2.23	169.50	52.97	48.55	0.00	24.97
09/20/87	1015	2.23	169.10	5.91	49.77	0.00	24.97
09/20/87	1030	4.95	171.60	5.15	50.01	0.00	24.98
09/20/87	1045	5.05	194.50	6.66	51.49	0.00	24.97
09/20/87	1100	4.99	211.60	5.49	52.78	0.00	24.97
09/20/87	1115	4.45	211.50	8.30	54.42	0.00	24.97
09/20/87	1130	4.55	234.20	10.28	55.52	0.00	24.97
09/20/87	1145	3.77	257.60	9.04	55.39	0.00	24.97
09/20/87	1200	4.42	276.80	13.42	56.48	0.00	24.97
09/20/87	1215	3.44	256.70	8.28	58.21	0.00	24.97
09/20/87	1230	3.03	271.00	40.43	59.43	0.00	24.96
09/20/87	1245	3.86	307.30	25.50	60.48	0.00	24.97
09/20/87	1300	3.03	357.40	45.58	61.62	0.00	24.95
09/20/87	1315	3.58	50.50	9.09	63.02	0.00	24.93
09/20/87	1330	4.04	47.20	18.92	63.30	0.00	24.94
09/20/87	1345	4.12	49.20	25.14	63.56	0.00	24.93
09/20/87	1400	3.86	87.60	31.01	63.75	0.00	24.93
09/20/87	1415	4.14	75.00	43.22	64.35	0.00	24.93
09/20/87	1430	3.13	21.18	17.34	65.40	0.00	24.93
09/20/87	1445	4.41	13.42	21.64	65.44	0.00	24.93
09/20/87	1500	4.22	38.06	29.08	66.56	0.00	24.93
09/20/87	1515	4.92	39.36	15.36	66.67	0.00	24.93
09/20/87	1530	5.84	13.11	18.16	66.27	0.00	24.91
09/20/87	1545	4.61	8.66	15.84	66.94	0.00	24.91
09/20/87	1600	6.01	40.75	10.72	67.35	0.00	24.91
09/20/87	1615	4.32	34.03	23.49	68.36	0.00	24.91
09/20/87	1630	5.16	11.96	22.47	67.28	0.00	24.91
09/20/87	1645	5.84	38.83	13.11	67.46	0.00	24.91
09/20/87	1700	5.16	27.47	24.80	67.62	0.00	24.90
09/20/87	1715	4.62	40.31	22.07	68.02	0.00	24.90
09/20/87	1730	4.97	46.72	15.04	68.14	0.00	24.90

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/20/87	1745	5.63	31.47	10.80	68.50	0.00	24.88
09/20/87	1800	6.58	33.66	11.08	68.51	0.00	24.88
09/20/87	1815	5.79	46.82	10.32	68.89	0.00	24.88
09/20/87	1830	5.67	36.88	10.80	68.78	0.00	24.88
09/20/87	1845	6.09	43.45	13.06	68.02	0.00	24.88
09/20/87	1900	3.70	40.67	21.34	67.06	0.00	24.92
09/20/87	1915	3.29	88.50	19.77	67.73	0.00	24.92
09/20/87	1930	3.08	21.30	17.03	68.51	0.00	24.91
09/20/87	1945	3.25	30.09	5.27	66.54	0.00	24.91
09/20/87	2000	2.02	20.71	2.05	65.31	0.00	24.91
09/20/87	2015	3.15	20.02	2.81	65.43	0.00	24.92
09/20/87	2030	3.85	31.77	2.05	65.60	0.00	24.92
09/20/87	2045	3.33	37.54	2.06	65.13	0.00	24.91
09/20/87	2100	3.50	42.45	4.79	64.30	0.00	24.93
09/20/87	2115	1.60	66.08	3.56	63.94	0.00	24.94
09/20/87	2130	0.81	41.39	6.31	62.86	0.00	24.95
09/20/87	2145	3.04	47.96	4.39	63.12	0.00	24.95
09/20/87	2200	3.52	52.71	12.14	62.63	0.00	24.96
09/20/87	2215	10.44	94.60	4.32	57.69	0.00	24.97
09/20/87	2230	9.90	96.60	2.33	57.48	0.00	24.98
09/20/87	2245	9.08	101.60	1.92	56.10	0.00	24.99
09/20/87	2300	9.61	108.50	1.99	55.40	0.00	24.99
09/20/87	2315	9.42	105.00	2.33	54.41	0.00	25.00
09/20/87	2330	7.56	103.40	2.75	53.32	0.00	25.01
09/20/87	2345	7.51	103.40	4.67	53.20	0.00	25.01
09/21/87	0	7.57	108.60	1.58	52.83	0.00	25.02
09/21/87	15	8.98	129.40	3.57	53.04	0.00	25.03
09/21/87	30	11.03	148.40	15.72	53.59	0.00	25.03
09/21/87	45	10.36	153.90	2.68	53.25	0.00	25.03
09/21/87	100	9.23	151.70	2.27	53.35	0.00	25.03
09/21/87	115	6.57	150.90	8.58	53.31	0.00	25.03
09/21/87	130	2.75	268.80	25.47	51.76	0.00	25.03
09/21/87	145	3.72	262.00	10.58	53.13	0.00	25.04
09/21/87	200	5.72	324.60	6.25	52.39	0.00	25.04
09/21/87	215	5.09	349.10	11.33	51.08	0.00	25.05
09/21/87	230	4.59	25.33	2.75	50.97	0.00	25.05
09/21/87	245	5.67	47.91	6.66	49.80	0.00	25.06
09/21/87	300	4.17	64.20	4.67	48.91	0.00	25.06
09/21/87	315	4.57	55.86	1.92	50.62	0.00	25.06
09/21/87	330	5.25	50.11	2.75	51.96	0.00	25.06
09/21/87	345	5.78	68.69	5.91	50.46	0.00	25.06
09/21/87	400	5.79	85.30	2.40	49.58	0.00	25.06
09/21/87	415	7.34	103.60	3.16	49.34	0.00	25.06
09/21/87	430	7.68	122.10	1.58	49.25	0.00	25.06
09/21/87	445	8.71	142.60	2.34	48.40	0.00	25.06
09/21/87	500	6.54	230.10	2.75	45.94	0.00	25.06

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/21/87	515	6.31	274.50	3.92	46.77	0.00	25.06
09/21/87	530	5.37	269.00	5.09	47.65	0.00	25.07
09/21/87	545	4.56	297.50	2.34	49.07	0.00	25.06
09/21/87	600	3.68	303.00	1.58	49.19	0.00	25.06
09/21/87	615	3.13	281.00	10.59	49.12	0.00	25.07
09/21/87	630	2.72	205.40	12.17	47.26	0.00	25.06
09/21/87	645	3.00	227.00	6.67	46.98	0.00	25.07
09/21/87	700	3.99	234.50	3.92	46.93	0.00	25.07
09/21/87	715	2.42	250.90	6.26	46.84	0.00	25.07
09/21/87	730	1.79	256.60	9.42	47.24	0.00	25.06
09/21/87	745	2.16	222.70	4.33	46.67	0.00	25.06
09/21/87	800	4.05	200.50	1.17	46.55	0.00	25.07
09/21/87	815	5.89	191.70	1.51	45.67	0.00	25.07
09/21/87	830	5.71	206.60	2.34	45.57	0.00	25.07
09/21/87	845	6.13	204.60	1.51	45.17	0.00	25.07
09/21/87	900	5.15	208.40	2.34	44.10	0.00	25.07
09/21/87	915	4.96	212.50	1.93	43.88	0.00	25.07
09/21/87	930	4.84	218.10	2.75	44.22	0.00	25.07
09/21/87	945	4.21	216.00	2.75	44.49	0.00	25.09
09/21/87	1000	3.67	222.60	7.01	45.37	0.00	25.08
09/21/87	1015	2.85	267.90	10.57	46.75	0.00	25.08
09/21/87	1030	3.80	290.80	8.23	47.76	0.00	25.07
09/21/87	1045	3.38	284.20	20.78	48.84	0.00	25.07
09/21/87	1100	3.85	253.20	7.47	49.97	0.00	25.07
09/21/87	1115	4.53	255.70	8.70	51.13	0.00	25.07
09/21/87	1130	4.59	277.50	19.31	52.28	0.00	25.07
09/21/87	1145	5.46	296.40	16.98	52.87	0.00	25.09
09/21/87	1200	5.11	307.00	11.08	53.73	0.00	25.08
09/21/87	1215	4.44	290.50	9.51	54.64	0.00	25.08
09/21/87	1230	4.92	322.70	18.39	55.60	0.00	25.08
09/21/87	1245	4.23	340.00	14.22	56.69	0.00	25.08
09/21/87	1300	5.08	329.60	14.96	57.68	0.00	25.08
09/21/87	1315	5.08	336.30	27.46	58.29	0.00	25.08
09/21/87	1330	3.76	12.67	16.19	60.25	0.00	25.08
09/21/87	1345	3.88	10.94	22.40	60.58	0.00	25.08
09/21/87	1400	4.98	1.40	30.60	61.19	0.00	25.08
09/21/87	1415	4.45	38.31	27.86	62.21	0.00	25.07
09/21/87	1430	5.31	37.04	18.92	62.65	0.00	25.08
09/21/87	1445	4.52	35.04	16.60	63.52	0.00	25.08
09/21/87	1500	4.18	36.34	31.41	63.66	0.00	25.08
09/21/87	1515	4.76	42.38	28.68	64.67	0.00	25.07
09/21/87	1530	5.94	349.20	16.59	64.92	0.00	25.06
09/21/87	1545	6.68	25.31	13.79	64.45	0.00	25.06
09/21/87	1600	5.78	52.35	18.10	65.09	0.00	25.06
09/21/87	1615	5.25	26.42	27.11	65.67	0.00	25.06
09/21/87	1630	5.02	33.74	21.65	65.37	0.00	25.05

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/21/87	1645	3.27	309.90	28.35	66.00	0.00	25.04
09/21/87	1700	6.82	16.70	7.99	66.58	0.00	25.03
09/21/87	1715	5.60	355.10	36.21	66.17	0.00	25.03
09/21/87	1730	6.26	353.20	17.01	66.34	0.00	25.03
09/21/87	1745	7.70	6.39	14.28	66.89	0.00	25.02
09/21/87	1800	7.48	15.56	7.93	67.07	0.00	25.03
09/21/87	1815	7.07	3.04	14.63	67.01	0.00	25.03
09/21/87	1830	7.41	29.71	15.04	67.00	0.00	25.03
09/21/87	1845	10.28	48.54	4.79	66.86	0.00	25.03
09/21/87	1900	9.27	45.59	6.02	66.82	0.00	25.03
09/21/87	1915	8.44	41.97	15.05	66.76	0.00	25.03
09/21/87	1930	9.83	43.38	5.27	66.50	0.00	25.03
09/21/87	1945	7.34	51.44	10.33	66.52	0.00	25.03
09/21/87	2000	6.54	49.88	8.76	66.26	0.00	25.03
09/21/87	2015	4.90	63.73	4.04	65.64	0.00	25.04
09/21/87	2030	3.96	72.50	5.20	64.64	0.00	25.04
09/21/87	2045	3.29	75.90	4.04	64.03	0.00	25.05
09/21/87	2100	2.68	67.24	3.22	63.21	0.00	25.05
09/21/87	2115	1.85	91.70	2.81	62.52	0.00	25.05
09/21/87	2130	3.18	90.80	4.73	62.54	0.00	25.05
09/21/87	2145	4.53	103.40	1.99	62.65	0.00	25.06
09/21/87	2200	5.24	118.50	3.15	62.42	0.00	25.06
09/21/87	2215	6.06	126.70	1.58	62.38	0.00	25.07
09/21/87	2230	6.07	131.70	1.17	62.68	0.00	25.07
09/21/87	2245	6.84	131.50	1.51	62.27	0.00	25.08
09/21/87	2300	7.34	129.00	0.76	61.83	0.00	25.08
09/21/87	2315	8.61	138.40	0.76	61.01	0.00	25.10
09/21/87	2330	11.35	142.90	1.51	59.77	0.00	25.10
09/21/87	2345	12.60	151.30	1.51	58.90	0.00	25.10
09/22/87	0	10.02	156.30	25.47	57.53	0.00	25.10
09/22/87	15	7.47	208.70	2.75	52.00	0.00	25.12
09/22/87	30	7.86	204.00	2.68	56.56	0.00	25.12
09/22/87	45	7.21	198.30	2.33	54.13	0.00	25.12
09/22/87	100	7.25	192.00	1.51	53.06	0.00	25.12
09/22/87	115	8.29	193.30	1.58	53.13	0.00	25.12
09/22/87	130	8.68	183.60	1.58	52.82	0.00	25.12
09/22/87	145	8.54	178.20	1.58	51.86	0.00	25.12
09/22/87	200	8.82	186.60	1.17	51.47	0.00	25.12
09/22/87	215	7.65	202.40	56.47	50.08	0.00	25.12
09/22/87	230	4.95	257.40	3.85	49.21	0.00	25.13
09/22/87	245	5.91	214.00	2.34	48.96	0.00	25.13
09/22/87	300	7.92	197.20	1.58	48.58	0.00	25.13
09/22/87	315	8.48	194.90	1.58	48.22	0.00	25.13
09/22/87	330	7.72	199.10	1.58	46.85	0.00	25.13
09/22/87	345	6.91	208.20	1.51	46.20	0.00	25.13
09/22/87	400	7.88	208.40	1.92	46.25	0.00	25.13

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/22/87	415	6.81	210.10	1.51	46.12	0.00	25.13
09/22/87	430	6.99	199.60	1.51	45.04	0.00	25.13
09/22/87	445	7.13	197.50	1.51	44.48	0.00	25.13
09/22/87	500	7.54	197.30	1.10	44.58	0.00	25.13
09/22/87	515	8.11	194.70	1.93	44.32	0.00	25.13
09/22/87	530	8.02	202.90	1.10	44.53	0.00	25.13
09/22/87	545	8.26	206.20	1.17	44.26	0.00	25.12
09/22/87	600	8.02	203.20	1.93	43.96	0.00	25.12
09/22/87	615	7.88	201.90	1.17	43.81	0.00	25.12
09/22/87	630	7.32	204.20	1.58	43.48	0.00	25.12
09/22/87	645	6.62	202.40	2.75	42.63	0.00	25.12
09/22/87	700	5.30	199.90	3.09	42.53	0.00	25.12
09/22/87	715	4.88	206.30	3.16	42.71	0.00	25.12
09/22/87	730	6.24	198.50	1.93	43.49	0.00	25.12
09/22/87	745	6.99	197.10	1.93	43.60	0.00	25.12
09/22/87	800	7.02	194.80	2.68	43.75	0.00	25.12
09/22/87	815	7.15	194.30	1.93	43.88	0.00	25.12
09/22/87	830	7.98	192.30	1.51	43.35	0.00	25.12
09/22/87	845	8.01	190.10	2.34	42.92	0.00	25.12
09/22/87	900	8.47	194.50	1.17	43.61	0.00	25.12
09/22/87	915	7.72	193.90	1.10	42.98	0.00	25.12
09/22/87	930	7.70	189.60	1.58	43.20	0.00	25.12
09/22/87	945	7.40	190.60	2.34	43.81	0.00	25.12
09/22/87	1000	6.67	193.40	2.68	45.00	0.00	25.12
09/22/87	1015	6.61	199.20	3.57	46.56	0.00	25.12
09/22/87	1030	6.83	201.60	6.25	47.72	0.00	25.12
09/22/87	1045	7.36	199.40	3.98	48.99	0.00	25.12
09/22/87	1100	6.72	207.10	6.72	50.81	0.00	25.11
09/22/87	1115	5.33	213.90	11.79	52.42	0.00	25.11
09/22/87	1130	4.60	213.90	12.20	54.04	0.00	25.11
09/22/87	1145	3.28	211.30	18.15	56.26	0.00	25.11
09/22/87	1200	2.71	227.80	25.12	58.09	0.00	25.10
09/22/87	1215	2.26	272.10	43.98	59.79	0.00	25.10
09/22/87	1230	2.35	180.20	57.36	61.15	0.00	25.10
09/22/87	1245	2.77	172.50	22.01	61.86	0.00	25.10
09/22/87	1300	2.61	202.50	35.72	63.45	0.00	25.09
09/22/87	1315	3.85	200.30	16.93	63.88	0.00	25.09
09/22/87	1330	4.64	180.80	12.63	64.33	0.00	25.08
09/22/87	1345	3.96	195.80	11.06	65.44	0.00	25.08
09/22/87	1400	2.70	198.80	39.38	67.00	0.00	25.08
09/22/87	1415	3.00	135.90	24.77	68.07	0.00	25.08
09/22/87	1430	3.50	143.60	19.78	68.76	0.00	25.08
09/22/87	1445	2.90	199.60	52.31	69.88	0.00	25.07
09/22/87	1500	3.61	98.60	19.78	70.20	0.00	25.07
09/22/87	1515	3.99	51.66	11.53	70.80	0.00	25.07
09/22/87	1530	2.81	43.99	60.55	71.30	0.00	25.07

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/22/87	1545	3.07	85.30	71.10	71.90	0.00	25.06
09/22/87	1600	3.87	45.94	36.62	72.30	0.00	25.05
09/22/87	1615	3.15	41.75	36.62	73.00	0.00	25.05
09/22/87	1630	4.98	4.96	9.55	72.30	0.00	25.05
09/22/87	1645	6.08	33.85	18.55	72.70	0.00	25.04
09/22/87	1700	6.41	31.77	9.96	72.10	0.00	25.04
09/22/87	1715	4.11	11.24	18.97	72.40	0.00	25.04
09/22/87	1730	5.43	5.32	15.02	72.40	0.00	25.04
09/22/87	1745	5.60	24.40	21.30	72.90	0.00	25.03
09/22/87	1800	4.56	14.25	12.63	72.80	0.00	25.03
09/22/87	1815	4.87	353.50	29.50	73.20	0.00	25.02
09/22/87	1830	4.78	30.07	11.13	73.40	0.00	25.03
09/22/87	1845	3.32	356.30	16.60	73.60	0.00	25.03
09/22/87	1900	3.37	20.35	11.13	73.40	0.00	25.03
09/22/87	1915	2.82	13.17	10.38	73.60	0.00	25.03
09/22/87	1930	2.89	339.10	18.59	73.60	0.00	25.03
09/22/87	1945	2.86	329.90	22.14	73.30	0.00	25.03
09/22/87	2000	2.48	343.40	9.16	72.90	0.00	25.03
09/22/87	2015	1.93	343.60	3.69	72.50	0.00	25.03
09/22/87	2030	1.44	352.50	1.30	71.30	0.00	25.02
09/22/87	2045	1.22	4.25	0.96	70.50	0.00	25.02
09/22/87	2100	1.10	17.94	3.69	68.54	0.00	25.03
09/22/87	2115	2.14	49.07	3.63	67.47	0.00	25.02
09/22/87	2130	1.79	56.46	7.19	66.80	0.00	25.03
09/22/87	2145	1.32	80.70	4.79	67.36	0.00	25.02
09/22/87	2200	0.99	74.30	5.89	66.05	0.00	25.02
09/22/87	2215	0.68	97.80	0.41	64.94	0.00	25.02
09/22/87	2230	2.09	134.40	3.98	65.61	0.00	25.03
09/22/87	2245	3.69	123.50	1.99	65.75	0.00	25.04
09/22/87	2300	5.95	118.10	1.17	66.00	0.00	25.04
09/22/87	2315	7.82	115.50	1.58	65.36	0.00	25.04
09/22/87	2330	9.05	119.90	2.75	64.50	0.00	25.05
09/22/87	2345	6.93	215.70	3.09	57.09	0.00	25.05
09/23/87	0	7.31	205.50	3.91	59.98	0.00	25.05
09/23/87	15	7.85	210.00	1.92	60.71	0.00	25.05
09/23/87	30	8.24	205.90	1.51	58.84	0.00	25.05
09/23/87	45	7.91	197.70	3.16	55.60	0.00	25.05
09/23/87	100	8.12	194.50	1.58	55.40	0.00	25.05
09/23/87	115	8.31	195.50	2.68	55.49	0.00	25.05
09/23/87	130	8.28	201.70	1.51	54.64	0.00	25.05
09/23/87	145	8.65	196.00	1.51	53.49	0.00	25.05
09/23/87	200	8.85	198.00	1.51	52.46	0.00	25.05
09/23/87	215	9.06	198.20	1.51	51.42	0.00	25.05
09/23/87	230	8.39	196.20	2.40	50.71	0.00	25.05
09/23/87	245	8.50	195.00	1.51	50.22	0.00	25.05
09/23/87	300	8.89	195.00	1.99	49.98	0.00	25.05

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/23/87	315	8.64	193.60	2.34	49.91	0.00	25.05
09/23/87	330	8.84	199.90	1.92	49.43	0.00	25.05
09/23/87	345	8.98	198.30	1.10	49.11	0.00	25.04
09/23/87	400	8.60	195.20	1.99	48.91	0.00	25.04
09/23/87	415	9.42	194.60	0.76	49.33	0.00	25.04
09/23/87	430	9.37	195.00	1.58	49.46	0.00	25.04
09/23/87	445	8.62	191.50	1.17	48.82	0.00	25.04
09/23/87	500	7.66	192.70	0.76	48.59	0.00	25.04
09/23/87	515	6.81	201.30	1.92	48.78	0.00	25.04
09/23/87	530	5.42	207.10	3.09	48.47	0.00	25.03
09/23/87	545	6.90	207.00	1.92	48.12	0.00	25.03
09/23/87	600	9.92	201.90	1.58	47.82	0.00	25.03
09/23/87	615	10.98	199.70	1.58	47.62	0.00	25.02
09/23/87	630	9.61	199.90	1.17	46.84	0.00	25.02
09/23/87	645	8.38	198.80	1.17	46.74	0.00	25.02
09/23/87	700	8.17	201.50	1.92	46.83	0.00	25.03
09/23/87	715	9.63	198.80	1.17	46.70	0.00	25.03
09/23/87	730	8.92	204.60	1.51	46.80	0.00	25.03
09/23/87	745	7.36	210.60	1.17	45.99	0.00	25.03
09/23/87	800	7.89	208.30	1.58	45.92	0.00	25.03
09/23/87	815	8.60	199.50	1.99	46.25	0.00	25.03
09/23/87	830	8.31	205.10	3.16	47.07	0.00	25.03
09/23/87	845	8.00	210.80	1.17	47.22	0.00	25.03
09/23/87	900	8.01	204.80	1.58	47.48	0.00	25.02
09/23/87	915	8.07	203.80	1.58	47.26	0.00	25.02
09/23/87	930	6.97	206.10	2.40	48.02	0.00	25.02
09/23/87	945	7.08	204.50	1.99	49.30	0.00	25.02
09/23/87	1000	7.35	202.40	3.50	50.92	0.00	25.02
09/23/87	1015	6.72	206.40	3.98	53.01	0.00	25.02
09/23/87	1030	7.27	210.10	4.32	55.39	0.00	25.02
09/23/87	1045	8.34	205.70	3.56	56.93	0.00	25.02
09/23/87	1100	8.11	207.20	3.98	58.40	0.00	25.02
09/23/87	1115	7.35	215.90	4.04	60.26	0.00	25.02
09/23/87	1130	6.41	223.20	6.78	62.39	0.00	25.02
09/23/87	1145	5.42	222.60	8.01	64.26	0.00	25.01
09/23/87	1200	4.71	236.30	6.77	65.86	0.00	25.01
09/23/87	1215	4.03	237.00	19.28	67.59	0.00	25.01
09/23/87	1230	3.65	249.70	13.46	68.99	0.00	25.01
09/23/87	1245	3.90	261.50	15.37	70.00	0.00	25.00
09/23/87	1300	3.30	167.90	40.89	71.30	0.00	25.00
09/23/87	1315	3.72	16.19	12.21	72.20	0.00	25.01
09/23/87	1330	4.78	21.36	13.85	72.40	0.00	25.00
09/23/87	1345	4.12	20.68	15.42	72.80	0.00	25.01
09/23/87	1400	3.66	1.99	13.09	74.50	0.00	25.00
09/23/87	1415	3.99	55.61	8.39	74.80	0.00	24.98
09/23/87	1430	4.10	74.00	48.00	75.90	0.00	24.98

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/23/87	1445	4.98	43.39	16.63	76.30	0.00	24.97
09/23/87	1500	5.75	62.77	12.27	76.90	0.00	24.96
09/23/87	1515	8.15	56.86	7.64	76.90	0.00	24.96
09/23/87	1530	7.08	52.65	10.36	77.10	0.00	24.96
09/23/87	1545	4.57	38.41	35.06	77.70	0.00	24.96
09/23/87	1600	3.52	55.92	25.98	78.90	0.00	24.95
09/23/87	1615	4.97	35.26	11.11	78.80	0.00	24.94
09/23/87	1630	5.38	349.10	17.39	78.20	0.00	24.94
09/23/87	1645	3.78	10.53	14.66	79.70	0.00	24.94
09/23/87	1700	2.89	9.45	43.63	80.00	0.00	24.94
09/23/87	1715	5.21	51.09	25.23	80.70	0.00	24.93
09/23/87	1730	5.64	54.63	8.05	80.70	0.00	24.92
09/23/87	1745	7.31	42.16	9.55	79.90	0.00	24.92
09/23/87	1800	5.79	29.45	16.99	80.20	0.00	24.92
09/23/87	1815	5.19	57.78	13.85	80.40	0.00	24.92
09/23/87	1830	5.42	42.59	13.10	80.40	0.00	24.92
09/23/87	1845	5.05	43.70	14.68	80.80	0.00	24.91
09/23/87	1900	4.97	43.60	20.14	80.70	0.00	24.90
09/23/87	1915	4.83	43.33	15.43	80.50	0.00	24.90
09/23/87	1930	5.18	32.84	5.60	80.10	0.00	24.90
09/23/87	1945	3.67	22.78	8.33	79.90	0.00	24.91
09/23/87	2000	2.92	17.89	4.10	79.50	0.00	24.90
09/23/87	2015	1.86	20.66	15.10	78.90	0.00	24.91
09/23/87	2030	0.91	12.42	2.53	78.20	0.00	24.91
09/23/87	2045	0.71	19.30	8.00	76.90	0.00	24.91
09/23/87	2100	0.14	32.58	1.64	73.90	0.00	24.90
09/23/87	2115	0.01	34.45	0.48	71.40	0.00	24.91
09/23/87	2130	1.19	258.50	1.71	71.20	0.00	24.91
09/23/87	2145	1.99	227.40	4.79	72.50	0.00	24.92
09/23/87	2200	2.01	156.90	18.14	72.30	0.00	24.92
09/23/87	2215	2.62	164.60	2.06	71.70	0.00	24.92
09/23/87	2230	4.11	165.80	9.46	72.90	0.00	24.90
09/23/87	2245	6.35	162.60	5.55	73.00	0.00	24.87
09/23/87	2300	9.51	155.20	3.56	71.50	0.00	24.93
09/23/87	2315	8.38	172.20	3.56	72.80	0.00	24.93
09/23/87	2330	8.36	177.10	28.25	69.20	0.00	24.94
09/23/87	2345	7.90	189.20	3.91	61.76	0.00	24.94
09/24/87	0	8.51	195.90	2.74	64.05	0.00	24.94
09/24/87	15	9.46	199.50	1.58	63.50	0.00	24.94
09/24/87	30	8.92	187.50	1.58	61.73	0.00	24.94
09/24/87	45	9.71	182.60	1.17	61.55	0.00	24.94
09/24/87	100	10.03	185.70	1.58	61.34	0.00	24.94
09/24/87	115	9.51	185.70	1.58	60.20	0.00	24.94
09/24/87	130	8.66	192.60	0.76	59.34	0.00	24.94
09/24/87	145	8.66	197.70	1.58	58.19	0.00	24.94
09/24/87	200	8.63	195.90	1.17	57.19	0.00	24.94

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09/24/87	215	8.03	197.30	0.76	56.15	0.00	24.94
09/24/87	230	7.84	192.90	1.51	55.69	0.00	24.94
09/24/87	245	8.87	192.30	1.51	56.04	0.00	24.94
09/24/87	300	8.95	191.30	1.51	55.86	0.00	24.94
09/24/87	315	9.31	188.70	1.10	56.06	0.00	24.94
09/24/87	330	10.24	189.10	1.51	56.85	0.00	24.94
09/24/87	345	9.92	187.40	0.82	56.02	0.00	24.94
09/24/87	400	9.41	188.80	1.99	54.83	0.00	24.93
09/24/87	415	8.58	195.20	1.58	53.91	0.00	24.93
09/24/87	430	8.44	196.20	1.51	53.50	0.00	24.94
09/24/87	445	8.31	196.60	1.58	53.16	0.00	24.94
09/24/87	500	7.37	200.40	2.68	52.63	0.00	24.94
09/24/87	515	7.95	204.10	1.99	52.21	0.00	24.94
09/24/87	530	7.98	200.00	1.99	51.85	0.00	24.94
09/24/87	545	7.69	198.20	1.58	51.64	0.00	24.94
09/24/87	600	7.67	199.00	1.17	52.40	0.00	24.94
09/24/87	615	7.38	200.10	1.99	51.87	0.00	24.94
09/24/87	630	6.57	206.70	2.68	51.18	0.00	24.94
09/24/87	645	7.31	203.40	1.58	50.60	0.00	24.93
09/24/87	700	8.06	200.40	1.58	50.77	0.00	24.93
09/24/87	715	7.47	202.60	1.58	50.88	0.00	24.93
09/24/87	730	7.51	201.20	1.58	50.56	0.00	24.93
09/24/87	745	7.93	204.00	1.58	50.21	0.00	24.93
09/24/87	800	7.80	204.80	0.34	49.94	0.00	24.93
09/24/87	815	7.53	199.90	1.58	49.52	0.00	24.93
09/24/87	830	8.25	191.80	1.58	49.77	0.00	24.93
09/24/87	845	9.35	185.80	1.99	50.04	0.00	24.93
09/24/87	900	9.76	182.60	0.82	50.87	0.00	24.93
09/24/87	915	9.35	189.80	1.58	50.98	0.00	24.93
09/24/87	930	8.17	196.90	2.75	51.41	0.00	24.93
09/24/87	945	8.36	192.20	3.16	52.74	0.00	24.93
09/24/87	1000	8.77	195.20	3.16	53.61	0.00	24.92
09/24/87	1015	8.10	192.70	4.73	54.81	0.00	24.92
09/24/87	1030	7.40	198.00	3.57	56.56	0.00	24.92
09/24/87	1045	7.96	202.90	4.39	58.25	0.00	24.92
09/24/87	1100	6.90	199.60	7.54	60.36	0.00	24.92
09/24/87	1115	7.19	204.60	5.21	62.25	0.00	24.91
09/24/87	1130	7.32	208.40	5.96	63.72	0.00	24.90
09/24/87	1145	5.45	196.40	5.61	66.13	0.00	24.89
09/24/87	1200	4.13	194.10	13.47	67.95	0.00	24.78
09/24/87	1215	3.95	189.40	15.38	69.23	0.00	24.89
09/24/87	1230	2.74	204.20	13.46	71.10	0.00	24.90
09/24/87	1245	2.47	137.20	14.20	72.70	0.00	24.90
09/24/87	1300	2.81	77.10	27.90	73.70	0.00	24.90
09/24/87	1315	2.95	72.30	12.69	74.30	0.00	24.91
09/24/87	1330	2.47	75.10	21.68	75.90	0.00	24.90

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09/24/87	1345	2.88	79.50	34.63	76.40	0.00	24.90
09/24/87	1400	2.04	145.80	17.79	77.70	0.00	24.90
09/24/87	1415	3.02	59.68	13.56	78.30	0.00	24.90
09/24/87	1430	2.32	76.20	63.75	79.10	0.00	24.89
09/24/87	1445	2.86	58.23	23.29	80.00	0.00	24.89
09/24/87	1500	4.57	44.09	9.19	79.40	0.00	24.88
09/24/87	1515	3.52	34.59	21.72	79.90	0.00	24.88
09/24/87	1530	5.10	47.49	23.29	80.40	0.00	24.88
09/24/87	1545	5.33	62.97	26.83	80.60	0.00	24.87
09/24/87	1600	5.03	49.35	20.23	81.10	0.00	24.87
09/24/87	1615	6.59	46.51	4.50	81.20	0.00	24.86
09/24/87	1630	7.09	48.14	12.67	81.00	0.00	24.86
09/24/87	1645	7.50	59.35	29.58	80.90	0.00	24.86
09/24/87	1700	7.07	65.63	11.18	81.70	0.00	24.86
09/24/87	1715	8.32	44.32	13.09	81.50	0.00	24.85
09/24/87	1730	7.00	63.14	12.69	81.90	0.00	24.85
09/24/87	1745	7.03	85.70	15.08	81.80	0.00	24.84
09/24/87	1800	6.93	64.43	7.23	81.90	0.00	24.84
09/24/87	1815	8.37	68.84	9.14	81.80	0.00	24.84
09/24/87	1830	6.92	78.10	8.39	81.70	0.00	24.85
09/24/87	1845	6.27	67.89	12.29	81.90	0.00	24.84
09/24/87	1900	9.24	58.61	5.19	81.40	0.00	24.84
09/24/87	1915	7.20	89.30	4.03	81.10	0.00	24.83
09/24/87	1930	6.79	65.69	7.17	80.90	0.00	24.83
09/24/87	1945	6.46	72.40	5.60	80.00	0.00	24.83
09/24/87	2000	4.82	75.50	5.95	79.50	0.00	24.83
09/24/87	2015	5.98	88.90	5.60	77.60	0.00	24.84
09/24/87	2030	7.00	102.40	1.64	76.00	0.00	24.84
09/24/87	2045	7.12	97.30	1.71	73.40	0.00	24.85
09/24/87	2100	7.99	99.20	1.30	72.40	0.00	24.85
09/24/87	2115	10.15	109.00	1.30	72.20	0.00	24.86
09/24/87	2130	11.42	110.80	1.30	71.40	0.00	24.86
09/24/87	2145	10.37	116.80	1.64	70.60	0.00	24.86
09/24/87	2200	9.19	114.80	2.47	68.70	0.00	24.86
09/24/87	2215	10.26	113.80	0.82	68.31	0.00	24.86
09/24/87	2230	10.65	117.80	2.81	67.85	0.00	24.86
09/24/87	2245	11.96	124.60	7.13	67.14	0.00	24.86
09/24/87	2300	12.55	129.10	3.56	66.41	0.00	24.87
09/24/87	2315	12.79	142.30	3.15	64.64	0.00	24.88
09/24/87	2330	10.23	157.90	16.94	60.96	0.00	24.88
09/24/87	2345	8.51	195.20	20.85	58.65	0.00	24.89
09/25/87	0	8.39	192.70	5.90	64.62	0.00	24.89
09/25/87	15	8.24	193.50	2.74	65.91	0.00	24.90
09/25/87	30	7.40	192.50	5.90	64.93	0.00	24.90
09/25/87	45	7.74	193.70	3.91	64.90	0.00	24.90
09/25/87	100	7.32	202.60	5.49	63.04	0.00	24.90

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/25/87	115	5.77	208.80	7.48	61.63	0.00	24.89
09/25/87	130	7.49	207.20	5.08	59.65	0.00	24.89
09/25/87	145	7.90	188.90	1.92	58.06	0.00	24.89
09/25/87	200	6.69	190.30	3.50	58.26	0.00	24.89
09/25/87	215	7.24	184.80	1.58	57.70	0.00	24.89
09/25/87	230	7.21	181.50	1.17	57.50	0.00	24.89
09/25/87	245	7.39	195.80	1.99	57.68	0.00	24.89
09/25/87	300	7.88	195.70	1.10	56.66	0.00	24.89
09/25/87	315	8.51	195.80	2.75	56.53	0.00	24.89
09/25/87	330	8.42	188.70	5.42	55.85	0.00	24.89
09/25/87	345	9.50	181.20	1.92	55.66	0.00	24.89
09/25/87	400	9.96	178.80	1.99	56.88	0.00	24.89
09/25/87	415	9.56	170.20	0.82	56.45	0.00	24.89
09/25/87	430	10.35	171.20	1.51	56.80	0.00	24.89
09/25/87	445	9.94	173.30	2.40	57.31	0.00	24.89
09/25/87	500	9.59	182.70	0.76	55.91	0.00	24.89
09/25/87	515	8.15	191.80	3.57	54.69	0.00	24.89
09/25/87	530	8.74	188.10	1.99	54.49	0.00	24.89
09/25/87	545	6.29	192.50	1.99	52.89	0.00	24.89
09/25/87	600	7.86	193.20	1.17	53.04	0.00	24.88
09/25/87	615	8.04	197.90	3.16	52.19	0.00	24.88
09/25/87	630	4.79	207.50	4.33	50.60	0.00	24.88
09/25/87	645	7.11	206.30	1.58	51.42	0.00	24.88
09/25/87	700	6.53	210.10	2.34	50.96	0.00	24.88
09/25/87	715	7.30	215.80	2.34	51.57	0.00	24.88
09/25/87	730	8.31	198.80	1.17	51.54	0.00	24.88
09/25/87	745	9.34	196.10	1.92	51.15	0.00	24.88
09/25/87	800	8.26	198.60	3.50	51.15	0.00	24.87
09/25/87	815	7.91	209.60	1.99	50.86	0.00	24.87
09/25/87	830	6.78	212.50	2.34	51.03	0.00	24.87
09/25/87	845	7.01	202.80	1.58	51.22	0.00	24.87
09/25/87	900	8.83	198.10	1.17	52.27	0.00	24.87
09/25/87	915	8.85	189.70	0.82	52.67	0.00	24.87
09/25/87	930	9.80	183.60	1.65	54.25	0.00	24.87
09/25/87	945	9.64	185.90	1.65	55.16	0.00	24.86
09/25/87	1000	9.82	186.90	1.99	55.72	0.00	24.86
09/25/87	1015	9.53	191.60	2.40	57.38	0.00	24.86
09/25/87	1030	8.41	197.80	2.74	58.34	0.00	24.85
09/25/87	1045	8.49	196.90	2.81	59.60	0.00	24.85
09/25/87	1100	8.16	194.8[illegible]	4.80	62.13	0.00	24.84
09/25/87	1115	11.73	197.20	4.79	64.14	0.00	24.63
09/25/87	1130	11.83	198.10	4.79	66.04	0.00	24.67
09/25/87	1145	13.65	199.20	4.45	67.45	0.00	23.89
09/25/87	1200	12.89	198.30	2.46	68.03	0.00	24.27
09/25/87	1215	11.51	204.50	3.69	69.32	0.00	24.80
09/25/87	1230	8.28	206.50	6.36	71.10	0.00	24.65

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/25/87	1245	7.65	212.40	9.09	71.90	0.00	24.77
09/25/87	1300	7.65	195.40	6.76	73.20	0.00	24.69
09/25/87	1315	6.87	198.40	8.33	75.00	0.00	24.75
09/25/87	1330	7.60	190.80	13.52	76.70	0.00	24.83
09/25/87	1345	8.95	177.20	13.92	77.50	0.00	24.82
09/25/87	1400	9.94	174.30	13.51	78.30	0.00	24.81
09/25/87	1415	8.45	175.80	9.21	78.40	0.00	24.81
09/25/87	1430	7.47	163.30	12.69	79.10	0.00	24.81
09/25/87	1445	7.11	157.50	12.75	80.50	0.00	24.37
09/25/87	1500	8.81	170.30	15.47	80.50	0.00	22.82
09/25/87	1515	11.25	173.20	13.91	80.50	0.00	22.76
09/25/87	1530	11.15	168.80	19.37	81.60	0.00	22.43
09/25/87	1545	11.58	163.50	15.48	81.90	0.00	22.13
09/25/87	1600	11.86	171.60	4.84	81.70	0.00	21.86
09/25/87	1615	9.10	166.10	8.80	82.20	0.00	21.75
09/25/87	1630	11.61	165.60	7.64	82.30	0.00	21.79
09/25/87	1645	9.50	164.30	11.52	82.40	0.00	21.50
09/25/87	1700	9.15	164.50	12.75	82.50	0.00	21.54
09/25/87	1715	10.23	156.80	11.53	81.00	0.00	21.96
09/25/87	1730	8.99	141.90	9.96	80.40	0.00	22.25
09/25/87	1745	7.75	137.20	9.56	80.60	0.00	21.76
09/25/87	1800	8.45	128.30	4.44	81.10	0.00	21.43
09/25/87	1815	6.88	127.50	5.60	81.50	0.00	21.31
09/25/87	1830	5.86	123.30	11.13	81.70	0.00	21.13
09/25/87	1845	3.24	92.80	17.42	82.40	0.00	21.06
09/25/87	1900	2.54	99.10	10.72	82.10	0.00	20.97
09/25/87	1915	0.65	102.40	9.97	81.00	0.00	21.27
09/25/87	1930	4.08	309.70	9.90	80.30	0.00	22.27
09/25/87	1945	4.10	310.10	33.82	78.00	0.00	22.86
09/25/87	2000	6.87	206.10	7.93	76.60	0.00	24.73
09/25/87	2015	7.20	226.20	13.81	77.10	0.00	24.73
09/25/87	2030	6.13	170.20	5.20	75.90	0.00	24.73
09/25/87	2045	9.73	160.00	2.05	74.60	0.00	24.74
09/25/87	2100	12.63	168.20	2.87	73.30	0.00	24.74
09/25/87	2115	12.40	166.80	3.63	72.90	0.00	24.74
09/25/87	2130	11.32	163.00	2.46	72.10	0.00	24.74
09/25/87	2145	11.58	171.00	2.46	71.50	0.00	24.74
09/25/87	2200	10.81	180.10	2.81	70.80	0.00	24.74
09/25/87	2215	10.11	181.70	2.81	70.10	0.00	24.74
09/25/87	2230	10.93	183.30	2.81	69.86	0.00	24.74
09/25/87	2245	10.28	174.70	2.81	69.10	0.00	24.74
09/25/87	2300	8.63	173.10	4.04	68.58	0.00	24.74
09/25/87	2315	9.38	193.00	3.63	68.52	0.00	24.74
09/25/87	2330	11.86	200.50	3.22	67.84	0.00	24.74
09/25/87	2345	11.27	200.80	4.38	67.35	0.00	24.74
09/26/87	0	7.09	208.50	3.98	66.06	0.00	24.74

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/26/87	15	5.34	207.70	2.40	65.34	0.00	24.74
09/26/87	30	3.85	212.00	8.71	64.50	0.00	24.73
09/26/87	45	6.15	209.00	2.74	64.96	0.00	24.74
09/26/87	100	8.75	208.50	1.58	64.22	0.00	24.74
09/26/87	115	9.71	208.90	1.99	62.49	0.00	24.74
09/26/87	130	9.78	202.70	1.99	61.34	0.00	24.74
09/26/87	145	9.32	203.70	1.99	61.26	0.00	24.75
09/26/87	200	9.09	204.00	1.99	60.34	0.00	24.75
09/26/87	215	10.41	195.70	1.99	59.22	0.00	24.75
09/26/87	230	11.78	194.80	1.99	59.56	0.00	24.75
09/26/87	245	11.32	195.60	2.33	59.72	0.00	24.74
09/26/87	300	10.79	199.10	1.99	59.14	0.00	24.74
09/26/87	315	10.05	199.50	1.58	58.36	0.00	24.74
09/26/87	330	8.92	199.60	1.58	57.49	0.00	24.74
09/26/87	345	8.29	200.30	1.58	57.24	0.00	24.74
09/26/87	400	7.21	196.10	2.33	56.82	0.00	24.74
09/26/87	415	7.19	195.00	1.92	57.22	0.00	24.74
09/26/87	430	7.36	199.40	1.92	56.68	0.00	24.74
09/26/87	445	7.99	206.30	2.33	56.21	0.00	24.74
09/26/87	500	7.97	204.00	2.33	55.59	0.00	24.74
09/26/87	515	7.73	210.00	1.92	55.18	0.00	24.74
09/26/87	530	7.46	219.20	1.92	55.93	0.00	24.74
09/26/87	545	7.38	215.00	1.92	56.90	0.00	24.75
09/26/87	600	6.98	221.90	3.91	56.86	0.00	24.75
09/26/87	615	5.58	234.20	1.92	56.40	0.00	24.75
09/26/87	630	5.00	226.60	1.99	56.86	0.00	24.75
09/26/87	645	4.93	226.30	2.33	56.46	0.00	24.75
09/26/87	700	4.68	227.30	1.58	55.69	0.00	24.75
09/26/87	715	5.41	215.30	1.99	55.49	0.00	24.75
09/26/87	730	6.62	211.70	1.58	55.73	0.00	24.75
09/26/87	745	8.30	208.70	1.17	55.56	0.00	24.75
09/26/87	800	8.34	205.30	2.33	54.48	0.00	24.75
09/26/87	815	9.38	195.50	1.58	52.85	0.00	24.75
09/26/87	830	9.99	200.40	1.58	52.38	0.00	24.75
09/26/87	845	9.38	197.50	1.99	52.50	0.00	24.75
09/26/87	900	8.43	198.20	1.58	52.47	0.00	24.75
09/26/87	915	8.28	202.10	2.40	52.64	0.00	24.76
09/26/87	930	8.33	203.20	2.40	52.87	0.00	24.75
09/26/87	945	7.80	196.90	2.40	53.51	0.00	24.75
09/26/87	1000	7.92	188.50	2.40	55.06	0.00	24.75
09/26/87	1015	7.30	197.80	3.57	56.95	0.00	24.75
09/26/87	1030	6.83	201.40	5.14	59.02	0.00	24.75
09/26/87	1045	9.37	219.30	3.22	61.13	0.00	24.75
09/26/87	1100	9.60	211.40	4.04	62.55	0.00	24.74
09/26/87	1115	8.59	207.30	4.04	64.02	0.00	24.71
09/26/87	1130	8.18	208.00	5.20	65.92	0.00	24.73

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/26/87	1145	7.55	204.00	6.30	67.55	0.00	23.57
09/26/87	1200	7.12	204.50	4.79	69.33	0.00	23.61
09/26/87	1215	6.71	193.60	10.32	70.80	0.00	23.28
09/26/87	1230	5.47	203.60	12.23	72.80	0.00	24.17
09/26/87	1245	5.71	184.40	10.31	74.60	0.00	24.73
09/26/87	1300	7.31	149.60	7.99	75.20	0.00	24.74
09/26/87	1315	6.93	146.00	7.24	75.60	0.00	24.74
09/26/87	1330	6.12	155.20	13.51	76.40	0.00	24.74
09/26/87	1345	6.63	168.10	15.08	76.90	0.00	24.74
09/26/87	1400	5.70	173.10	17.05	77.30	0.00	24.74
09/26/87	1415	6.93	167.90	22.50	77.80	0.00	24.73
09/26/87	1430	6.55	138.20	17.45	77.90	0.00	24.72
09/26/87	1445	4.02	125.20	53.10	78.90	0.00	24.72
09/26/87	1500	3.43	131.70	53.90	80.20	0.00	24.30
09/26/87	1515	6.35	130.90	31.14	80.10	0.00	24.71
09/26/87	1530	6.23	79.60	22.55	80.60	0.00	24.71
09/26/87	1545	5.35	122.00	28.00	80.20	0.00	24.71
09/26/87	1600	6.18	155.90	11.92	79.70	0.00	24.70
09/26/87	1615	3.46	180.60	40.96	81.40	0.00	24.69
09/26/87	1630	4.23	126.80	17.85	82.50	0.00	24.70
09/26/87	1645	3.35	125.80	17.03	82.00	0.00	24.70
09/26/87	1700	2.97	147.20	13.83	80.10	0.00	24.67
09/26/87	1715	2.51	141.60	57.46	82.60	0.00	24.62
09/26/87	1730	4.17	282.70	19.02	82.60	0.00	24.64
09/26/87	1745	5.25	218.00	14.25	80.20	0.00	24.65
09/26/87	1800	6.77	261.20	4.84	79.00	0.00	24.66
09/26/87	1815	8.95	264.70	6.42	79.40	0.00	24.66
09/26/87	1830	5.55	273.40	15.02	80.30	0.00	24.66
09/26/87	1845	6.07	258.80	8.40	80.50	0.00	24.66
09/26/87	1900	5.91	257.30	5.94	80.20	0.00	24.66
09/26/87	1915	11.46	256.40	8.33	78.70	0.00	24.67
09/26/87	1930	9.60	242.90	3.21	77.00	0.00	24.70
09/26/87	1945	10.17	259.40	4.38	76.90	0.00	24.70
09/26/87	2000	7.97	267.70	3.62	75.50	0.00	24.70
09/26/87	2015	6.73	263.30	2.80	74.20	0.00	24.70
09/26/87	2030	6.95	251.10	3.63	73.30	0.00	24.70
09/26/87	2045	7.83	248.60	2.46	72.70	0.00	24.71
09/26/87	2100	9.31	248.70	4.45	72.70	0.00	24.71
09/26/87	2115	9.27	255.40	2.46	72.40	0.00	24.71
09/26/87	2130	7.80	258.60	6.37	72.50	0.00	24.71
09/26/87	2145	6.61	273.70	23.28	72.10	0.00	24.71
09/26/87	2200	4.50	314.40	15.41	71.40	0.00	24.71
09/26/87	2215	5.88	314.30	21.30	72.30	0.00	24.72
09/26/87	2230	15.74	249.70	19.31	73.40	0.00	24.72
09/26/87	2245	11.43	261.70	21.30	72.00	0.00	24.73
09/26/87	2300	9.80	256.40	3.63	70.20	0.00	24.73

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/26/87	2315	9.04	259.80	3.22	69.52	0.00	24.73
09/26/87	2330	7.44	269.10	3.63	69.16	0.00	24.73
09/26/87	2345	5.54	238.60	22.47	68.22	0.00	24.73
09/27/87	0	5.35	256.00	3.63	68.88	0.00	24.73
09/27/87	15	2.48	229.20	50.63	69.19	0.00	24.73
09/27/87	30	6.87	251.70	4.80	70.90	0.00	24.73
09/27/87	45	8.63	258.20	4.04	70.50	0.00	24.72
09/27/87	100	6.23	222.20	5.21	68.31	0.00	24.72
09/27/87	115	6.82	277.80	13.43	67.46	0.00	24.72
09/27/87	130	5.07	169.10	15.35	67.57	0.00	24.72
09/27/87	145	6.53	188.30	2.40	67.31	0.00	24.71
09/27/87	200	8.67	214.00	2.06	67.58	0.00	24.72
09/27/87	215	7.74	208.30	4.39	67.37	0.00	24.71
09/27/87	230	7.24	201.00	2.40	66.14	0.00	24.70
09/27/87	245	8.60	204.10	2.74	64.77	0.00	24.67
09/27/87	300	9.66	204.60	3.98	66.13	0.00	24.73
09/27/87	315	8.70	223.10	1.58	66.58	0.00	24.73
09/27/87	330	7.14	215.40	1.58	65.64	0.00	24.73
09/27/87	345	9.87	189.60	4.32	63.62	0.00	24.73
09/27/87	400	10.41	183.50	1.58	62.32	0.00	24.74
09/27/87	415	9.90	190.20	1.99	60.41	0.00	24.74
09/27/87	430	10.16	186.40	2.33	59.63	0.00	24.74
09/27/87	445	9.41	192.00	1.58	59.70	0.00	24.74
09/27/87	500	9.22	198.30	1.99	59.21	0.00	24.74
09/27/87	515	9.75	202.00	1.99	59.08	0.00	24.74
09/27/87	530	10.14	202.40	1.17	59.08	0.00	24.74
09/27/87	545	7.50	194.50	2.33	57.61	0.00	24.74
09/27/87	600	7.43	198.40	2.75	57.73	0.00	24.74
09/27/87	615	7.89	194.90	1.92	57.61	0.00	24.74
09/27/87	630	7.86	199.00	1.51	57.03	0.00	24.76
09/27/87	645	9.45	198.60	1.58	57.47	0.00	24.77
09/27/87	700	5.18	164.70	8.65	55.58	0.00	24.77
09/27/87	715	5.49	191.00	3.91	56.61	0.00	24.78
09/27/87	730	4.15	180.90	7.42	56.54	0.00	24.78
09/27/87	745	4.64	157.00	4.26	55.32	0.00	24.78
09/27/87	800	6.86	171.00	1.92	59.16	0.00	24.78
09/27/87	815	6.99	183.70	3.16	60.37	0.00	24.78
09/27/87	830	8.17	175.50	2.06	58.55	0.00	24.79
09/27/87	845	9.34	172.10	1.24	58.55	0.00	24.79
09/27/87	900	8.65	171.90	23.21	58.35	0.00	24.80
09/27/87	915	3.14	155.80	18.40	54.15	0.00	24.80
09/27/87	930	1.72	171.00	56.09	55.16	0.00	24.81
09/27/87	945	2.94	248.10	29.44	54.31	0.00	24.82
09/27/87	1000	2.61	42.59	51.81	54.14	0.00	24.82
09/27/87	1015	3.79	187.80	60.05	55.17	0.00	24.83
09/27/87	1030	4.71	281.70	22.02	57.88	0.00	24.83

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/27/87	1045	3.63	154.40	11.05	58.84	0.00	24.83
09/27/87	1100	4.78	137.00	6.72	58.88	0.00	24.83
09/27/87	1115	6.73	127.40	3.57	59.87	0.00	24.83
09/27/87	1130	5.50	140.30	5.90	62.59	0.00	24.83
09/27/87	1145	6.58	131.00	5.55	64.90	0.00	24.83
09/27/87	1200	8.67	115.30	3.22	65.87	0.00	24.84
09/27/87	1215	9.62	105.10	6.37	66.45	0.00	24.84
09/27/87	1230	12.51	92.60	7.54	66.57	0.00	24.83
09/27/87	1245	11.91	87.70	5.21	66.09	0.00	24.83
09/27/87	1300	14.19	87.00	5.62	64.83	0.00	24.85
09/27/87	1315	15.59	80.90	3.63	64.78	0.00	24.85
09/27/87	1330	15.47	75.50	7.19	65.64	0.00	24.73
09/27/87	1345	15.75	74.10	5.62	65.72	0.00	23.29
09/27/87	1400	17.44	75.00	5.62	66.21	0.00	22.76
09/27/87	1415	18.87	75.10	5.20	65.43	0.00	22.66
09/27/87	1430	17.85	70.60	8.35	64.91	0.00	22.57
09/27/87	1445	19.00	73.90	7.19	64.82	0.00	22.42
09/27/87	1500	18.62	67.06	6.71	65.38	0.00	23.66
09/27/87	1515	15.74	62.20	10.33	64.77	0.00	24.85
09/27/87	1530	14.03	66.38	9.17	64.85	0.00	24.85
09/27/87	1545	13.15	64.82	10.74	66.04	0.00	24.85
09/27/87	1600	13.34	70.60	8.35	65.11	0.00	24.86
09/27/87	1615	14.01	73.90	8.76	65.56	0.00	24.86
09/27/87	1630	13.02	73.40	10.74	64.66	0.00	24.86
09/27/87	1645	12.45	75.50	5.61	64.67	0.00	24.87
09/27/87	1700	11.98	84.40	11.84	65.62	0.00	24.87
09/27/87	1715	12.59	80.70	7.53	65.47	0.00	24.87
09/27/87	1730	12.90	86.20	7.94	66.81	0.00	24.87
09/27/87	1745	13.70	85.10	11.91	66.64	0.00	24.87
09/27/87	1800	14.59	102.40	6.78	66.53	0.00	24.87
09/27/87	1815	12.41	103.10	8.35	66.66	0.00	24.88
09/27/87	1830	10.34	109.60	11.09	66.92	0.00	24.88
09/27/87	1845	13.31	113.70	6.78	66.45	0.00	24.87
09/27/87	1900	12.95	119.30	9.58	65.92	0.00	24.88
09/27/87	1915	12.45	111.50	8.42	65.67	0.00	24.87
09/27/87	1930	10.75	97.40	6.03	65.24	0.00	24.88
09/27/87	1945	8.87	102.60	6.85	65.14	0.00	24.88
09/27/87	2000	9.06	107.10	4.45	64.61	0.00	24.88
09/27/87	2015	11.37	115.50	4.04	63.39	0.00	24.84
09/27/87	2030	10.82	110.20	3.63	62.06	0.00	24.67
09/27/87	2045	10.22	111.60	2.81	60.84	0.00	24.37
09/27/87	2100	9.99	114.70	2.40	60.06	0.00	24.86
09/27/87	2115	9.07	111.60	2.81	59.41	0.00	24.07
09/27/87	2130	8.23	110.00	1.65	58.59	0.00	24.48
09/27/87	2145	8.20	114.20	1.99	57.86	0.00	24.93
09/27/87	2200	7.39	133.10	2.40	56.86	0.00	24.94

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/27/87	2215	7.26	138.30	1.58	56.63	0.00	24.95
09/27/87	2230	8.00	138.20	1.17	55.93	0.00	24.95
09/27/87	2245	9.16	148.90	3.16	55.05	0.00	24.95
09/27/87	2300	9.03	161.60	14.14	53.83	0.00	24.96
09/27/87	2315	8.73	180.30	4.33	53.63	0.00	24.97
09/27/37	2330	6.34	204.00	2.33	52.72	0.00	24.97
09/27/87	2345	5.10	205.70	1.92	53.47	0.00	24.98
09/28/87	0	2.89	226.90	8.31	51.89	0.00	24.99
09/28/87	15	0.50	9.07	0.34	49.91	0.00	25.00
09/28/87	30	1.18	178.80	20.81	51.69	0.00	25.00
09/28/87	45	0.97	85.00	6.32	51.19	0.00	25.00
09/28/87	100	0.34	300.70	34.48	51.33	0.00	25.00
09/28/87	115	1.77	45.71	16.83	52.14	0.00	25.01
09/28/87	130	2.53	41.51	5.77	51.66	0.00	25.01
09/28/87	145	3.46	59.80	4.74	51.21	0.00	25.01
09/28/87	200	3.21	83.10	5.50	51.62	0.00	25.01
09/28/87	215	3.27	83.40	3.92	51.71	0.00	25.01
09/28/87	230	3.82	89.10	1.58	52.28	0.00	25.01
09/28/87	245	3.56	86.60	2.34	52.35	0.00	25.02
09/28/87	300	3.23	160.40	12.10	50.24	0.00	25.03
09/28/87	315	4.24	206.00	3.16	47.93	0.00	25.03
09/28/87	330	4.53	224.10	2.34	48.73	0.00	25.02
09/28/87	345	4.31	226.30	5.09	48.45	0.00	25.02
09/28/87	400	3.05	249.40	5.08	48.60	0.00	25.02
09/28/87	415	3.22	342.20	4.67	48.81	0.00	25.03
09/28/87	430	4.89	33.83	7.08	45.80	0.00	25.04
09/28/87	445	1.53	51.69	12.92	45.75	0.00	25.04
09/28/87	500	1.59	43.52	16.49	45.96	0.00	25.04
09/28/87	515	1.63	31.66	9.00	46.01	0.00	25.04
09/28/87	530	4.33	334.10	3.92	46 41	0.00	25.04
09/28/87	545	6.53	334.30	2.68	46.11	0.00	25.04
09/28/87	600	5.82	337.70	2.68	46.36	0.00	25.04
09/28/87	615	6.80	339.60	1.51	46.03	0.00	25.05
09/28/87	630	4.78	352.00	7.42	45.13	0.00	25.05
09/28/87	645	3.63	348.60	1.51	44.38	0.00	25.06
09/28/87	700	1.70	3.22	2.34	43.16	0.00	25.06
09/28/87	715	2.35	29.32	12.51	42.44	0.00	25.07
09/28/87	730	1.67	34.96	7.43	41.96	0.00	25.07
09/28/87	745	1.59	41.50	4.88	41.70	0.00	25.07
09/28/87	800	1.46	39.49	3.85	41.33	0.00	25.07
09/28/87	815	1.15	27.25	3.85	41.77	0.00	25.08
09/28/87	830	0.72	21.78	4.26	41.88	0.00	25.09
09/28/87	845	0.85	10.77	2.68	42.25	0.00	25.09
09/28/87	900	1.65	30.68	2.34	41.78	0.00	25.09
09/28/87	915	2.59	48.21	5.09	41.47	0.00	25.10
09/28/87	930	3.22	37.71	5.43	42.08	0.00	25.11

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/28/87	945	2.54	56.52	6.26	42.55	0.00	25.10
09/28/87	1000	1.59	47.18	6.67	43.34	0.00	25.11
09/28/87	1015	1.59	33.49	3.57	43.25	0.00	25.11
09/28/87	1030	1.62	31.47	15.73	44.26	0.00	25.12
09/28/87	1045	2.66	35.52	5.15	44.34	0.00	25.12
09/28/87	1100	2.50	51.49	7.42	43.88	0.00	25.12
09/28/87	1115	3.27	48.74	9.89	47.19	0.00	25.12
09/28/87	1130	3.33	48.44	23.54	48.97	0.00	25.11
09/28/87	1145	2.44	101.50	20.44	50.47	0.00	25.12
09/28/87	1200	2.44	163.50	21.59	51.97	0.00	25.11
09/28/87	1215	3.13	208.10	36.92	51.14	0.00	25.11
09/28/87	1230	3.28	120.50	15.40	51.92	0.00	25.11
09/28/87	1245	3.70	114.90	19.71	52.71	0.00	25.10
09/28/87	1300	4.26	123.40	22.85	52.81	0.00	25.09
09/28/87	1315	3.29	30.97	24.76	54.30	0.00	25.09
09/28/87	1330	3.98	83.60	24.00	54.66	0.00	25.09
09/28/87	1345	5.14	92.10	10.67	54.24	0.00	25.08
09/28/87	1400	3.11	124.80	29.82	55.75	0.00	25.08
09/28/87	1415	3.29	226.80	25.50	56.71	0.00	25.07
09/28/87	1430	4.16	279.90	31.03	57.02	0.00	25.05
09/28/87	1445	4.59	67.78	27.13	58.34	0.00	24.99
09/28/87	1500	4.44	37.09	33.01	58.72	0.00	24.97
09/28/87	1515	3.88	20.72	66.42	59.17	0.00	24.94
09/28/87	1530	4.44	66.69	16.19	60.22	0.00	24.66
09/28/87	1545	3.62	10.79	23.64	61.04	0.00	24.06
09/28/87	1600	4.58	358.40	14.21	60.96	0.00	24.07
09/28/87	1615	5.63	17.59	14.21	60.94	0.00	23.91
09/28/87	1630	6.44	345.40	24.39	61.21	0.00	23.90
09/28/87	1645	5.82	3.54	16.95	61.47	0.00	23.83
09/28/87	1700	6.46	353.20	18.52	61.72	0.00	23.82
09/28/87	1715	7.01	1.91	21.26	62.78	0.00	23.82
09/28/87	1730	6.04	11.29	15.38	63.28	0.00	23.81
09/28/87	1745	7.38	11.91	18.46	63.98	0.00	23.81
09/28/87	1800	7.00	34.70	8.75	64.09	0.00	23.90
09/28/87	1815	7.25	21.82	10.26	64.44	0.00	23.92
09/28/87	1830	6.64	17.68	8.00	64.07	0.00	23.95
09/28/87	1845	6.46	13.06	15.32	64.49	0.00	23.98
09/28/87	1900	5.89	0.53	11.08	64.47	0.00	24.27
09/28/87	1915	6.44	13.24	15.81	64.51	0.00	24.72
09/28/87	1930	5.85	26.10	7.19	64.66	0.00	24.90
09/28/87	1945	5.64	18.81	5.95	64.38	0.00	24.98
09/28/87	2000	5.31	16.25	4.79	63.86	0.00	24.99
09/28/87	2015	4.84	16.38	2.05	62.85	0.00	25.00
09/28/87	2030	5.01	28.08	1.23	61.54	0.00	25.00
09/28/87	2045	4.99	32.54	2.06	60.32	0.00	24.99
09/28/87	2100	5.53	38.42	1.23	59.53	0.00	24.99

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/28/87	2115	5.24	42.32	0.82	58.82	0.00	25.01
09/28/87	2130	4.00	35.74	1.99	57.94	0.00	25.02
09/28/87	2145	3.01	70.90	5.56	56.37	0.00	25.04
09/28/87	2200	3.27	77.20	3.16	56.89	0.00	25.05
09/28/87	2215	3.51	75.40	3.57	56.95	0.00	25.05
09/28/87	2230	4.06	91.20	1.99	56.73	0.00	25.05
09/28/87	2245	4.58	98.80	4.67	57.94	0.00	25.06
09/28/87	2300	7.09	141.40	1.92	56.35	0.00	25.07
09/28/87	2315	8.56	148.10	1.92	56.82	0.00	25.08
09/28/87	2330	8.66	152.20	2.33	56.85	0.00	25.08
09/28/87	2345	5.00	218.50	7.90	51.61	0.00	25.08
09/29/87	0	5.15	217.70	3.16	53.99	0.00	25.09
09/29/87	15	5.11	218.20	3.16	54.75	0.00	25.09
09/29/87	30	3.91	218.60	3.50	54.58	0.00	25.10
09/29/87	45	3.38	216.00	10.99	54.05	0.00	25.10
09/29/87	100	2.94	187.40	4.33	53.67	0.00	25.11
09/29/87	115	4.44	183.20	6.25	52.84	0.00	25.11
09/29/87	130	4.65	159.50	6.67	52.71	0.00	25.11
09/29/87	145	5.46	174.90	1.58	52.72	0.00	25.11
09/29/87	200	5.96	180.80	1.17	51.61	0.00	25.11
09/29/87	215	7.50	188.20	2.34	51.34	0.00	25.11
09/29/87	230	7.72	202.60	0.34	51.24	0.00	25.11
09/29/87	245	7.57	211.0	1.17	50.68	0.00	25.11
09/29/87	300	3.20	216.80	9.83	46.40	0.00	25.12
09/29/87	315	1.35	214.90	13.33	44.96	0.00	25.12
09/29/87	330	2.95	220.20	7.01	47.24	0.00	25.12
09/29/87	345	3.05	236.90	5.84	46.57	0.00	25.12
09/29/87	400	3.91	205.70	2.68	46.25	0.00	25.12
09/29/87	415	3.64	209.30	2.34	46.61	0.00	25.12
09/29/87	430	3.84	230.60	2.68	45.89	0.00	25.12
09/29/87	445	3.88	222.20	6.26	45.87	0.00	25.12
09/29/87	500	2.73	221.70	3.92	46.33	0.00	25.12
09/29/87	515	3.15	200.20	3.51	46.57	0.00	25.12
09/29/87	530	3.35	205.80	5.84	46.68	0.00	25.12
09/29/87	545	3.65	214.50	4.68	46.53	0.00	25.12
09/29/87	600	2.78	227.50	6.60	46.71	0.00	25.12
09/29/87	615	3.36	226.10	2.27	46.91	0.00	25.12
09/29/87	630	4.48	217.90	1.93	46.86	0.00	25.12
09/29/87	645	5.56	213.80	1.51	46.64	0.00	25.12
09/29/87	700	6.02	214.90	1.93	45.59	0.00	25.12
09/29/87	715	5.04	219.10	2.34	44.51	0.00	25.12
09/29/87	730	3.97	217.20	2.68	43.95	0.00	25.13
09/29/87	745	4.49	207.90	1.93	43.94	0.00	25.13
09/29/87	800	5.60	210.50	1.93	44.10	0.00	25.13
09/29/87	815	6.12	210.10	1.51	43.70	0.00	25.13
09/29/87	830	6.39	204.10	2.27	43.16	0.00	25.13

RMA METEOROLOGICAL DATA
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/29/87	845	5.55	209.30	1.86	42.77	0.00	25.14
09/29/87	900	5.25	216.80	2.27	42.38	0.00	25.14
09/29/87	915	5.32	226.20	2.27	42.16	0.00	25.15
09/29/87	930	5.03	223.10	1.93	41.96	0.00	25.15
09/29/87	945	4.98	216.50	2.68	42.44	0.00	25.15
09/29/87	1000	5.28	210.00	3.50	43.82	0.00	25.15
09/29/87	1015	5.51	208.50	3.16	45.33	0.00	25.15
09/29/87	1030	4.59	214.10	4.26	46.85	0.00	25.16
09/29/87	1045	3.52	227.70	9.40	48.60	0.00	25.16
09/29/87	1100	3.34	248.60	14.20	50.10	0.00	25.16
09/29/87	1115	3.27	265.80	10.28	51.47	0.00	25.16
09/29/87	1130	3.75	286.30	25.07	52.55	0.00	25.16
09/29/87	1145	4.23	313.80	28.28	53.20	0.00	25.16
09/29/87	1200	4.53	321.70	15.40	53.94	0.00	25.16
09/29/87	1215	3.88	331.10	23.60	54.98	0.00	25.16
09/29/87	1230	4.36	324.00	13.06	55.79	0.00	25.16
09/29/87	1245	3.48	339.60	27.07	57.39	0.00	25.14
09/29/87	1300	4.26	1.92	27.88	57.66	0.00	25.03
09/29/87	1315	4.43	24.81	21.66	58.27	0.00	25.02
09/29/87	1330	4.62	5.59	9.09	59.44	0.00	25.02
09/29/87	1345	3.88	340.20	22.47	60.61	0.00	24.41
09/29/87	1400	2.86	340.90	47.12	61.63	0.00	23.96
09/29/87	1415	3.06	81.40	36.59	63.15	0.00	25.07
09/29/87	1430	3.09	161.80	43.41	63.49	0.00	25.06
09/29/87	1445	3.55	25.85	25.12	64.56	0.00	25.12
09/29/87	1500	3.17	354.40	53.03	65.09	0.00	25.12
09/29/87	1515	3.88	2.73	30.30	65.89	0.00	25.12
09/29/87	1530	4.27	340.70	22.45	65.43	0.00	25.11
09/29/87	1545	4.03	335.30	17.74	66.16	0.00	25.10
09/29/87	1600	5.27	33.30	32.68	66.87	0.00	25.10
09/29/87	1615	6.99	37.48	11.88	66.59	0.00	25.10
09/29/87	1630	6.12	49.95	20.14	67.11	0.00	25.09
09/29/87	1645	7.10	59.80	13.86	67.03	0.00	25.09
09/29/87	1700	6.24	59.63	20.49	67.53	0.00	25.09
09/29/87	1715	6.46	41.72	19.74	67.44	0.00	25.08
09/29/87	1730	5.88	63.73	34.23	67.74	0.00	25.07
09/29/87	1745	4.82	39.02	12.64	67.87	0.00	25.07
09/29/87	1800	6.73	67.17	17.36	67.95	0.00	25.07
09/29/87	1815	5.65	62.97	24.41	68.41	0.00	25.06
09/29/87	1830	5.03	37.18	24.75	68.51	0.00	25.06
09/29/87	1845	5.99	49.70	19.69	68.53	0.00	25.06
09/29/87	1900	5.59	37.63	7.52	68.30	0.00	25.06
09/29/87	1915	3.83	57.00	18.94	68.48	0.00	25.06
09/29/87	1930	5.08	41.80	9.92	67.94	0.00	25.07
09/29/87	1945	4.68	39.52	3.28	68.15	0.00	25.06
09/29/87	2000	3.30	17.07	4.38	67.23	0.00	25.07

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/29/87	2015	3.04	17.86	4.79	66.21	0.00	25.09
09/29/87	2030	4.59	37.22	2.46	64.63	0.00	25.09
09/29/87	2045	4.45	40.60	1.64	62.16	0.00	25.09
09/29/87	2100	4.93	40.63	13.01	61.63	0.00	25.10
09/29/87	2115	4.45	62.82	3.56	60.80	0.00	25.11
09/29/87	2130	4.36	81.50	2.74	61.92	0.00	25.11
09/29/87	2145	6.39	94.40	1.17	61.38	0.00	25.12
09/29/87	2200	6.56	108.30	1.17	60.14	0.00	25.13
09/29/87	2215	7.12	111.20	4.73	59.82	0.00	25.13
09/29/87	2230	7.25	120.90	1.99	59.25	0.00	25.13
09/29/87	2245	9.00	129.40	3.57	57.95	0.00	25.13
09/29/87	2300	8.57	132.30	1.92	57.79	0.00	25.14
09/29/87	2315	9.93	136.40	5.49	55.82	0.00	25.14
09/29/87	2330	9.63	139.80	1.99	55.24	0.00	25.15
09/29/87	2345	8.43	124.50	2.33	56.21	0.00	25.15
09/30/87	0	8.09	131.30	3.98	55.55	0.00	25.15
09/30/87	15	6.43	197.70	9.07	50.93	0.00	25.17
09/30/87	30	5.00	210.80	8.66	52.61	0.00	25.17
09/30/87	45	5.89	194.10	5.50	53.40	0.00	25.17
09/30/87	100	7.03	180.00	1.58	55.04	0.00	25.17
09/30/87	115	8.35	176.20	1.99	55.99	0.00	25.17
09/30/87	130	9.03	186.40	1.58	56.19	0.00	25.16
09/30/87	145	9.08	192.90	1.58	53.60	0.00	25.16
09/30/87	200	8.22	198.70	1.99	51.22	0.00	25.16
09/30/87	215	8.15	194.30	1.58	50.86	0.00	25.17
09/30/87	230	8.58	192.00	1.58	49.71	0.00	25.17
09/30/87	245	8.77	195.50	1.99	49.66	0.00	25.17
09/30/87	300	8.55	194.30	1.58	49.76	0.00	25.16
09/30/87	315	8.85	188.80	1.58	48.96	0.00	25.16
09/30/87	330	10.21	183.60	1.17	48.48	0.00	25.16
09/30/87	345	10.46	184.10	1.58	48.27	0.00	25.15
09/30/87	400	10.82	186.00	1.99	47.80	0.00	25.15
09/30/87	415	10.13	191.50	1.99	46.51	0.00	25.15
09/30/87	430	9.19	195.70	1.17	46.42	0.00	25.15
09/30/87	445	8.20	196.30	1.17	46.05	0.00	25.15
09/30/87	500	7.88	189.30	0.76	45.73	0.00	25.15
09/30/87	515	8.14	190.00	1.58	45.42	0.00	25.15
09/30/87	530	6.61	185.80	1.17	44.98	0.00	25.14
09/30/87	545	4.63	193.10	3.51	43.84	0.00	25.14
09/30/87	600	5.03	190.10	1.93	44.58	0.00	25.14
09/30/87	615	5.06	194.80	1.51	44.67	0.00	25.14
09/30/87	630	6.93	199.30	1.10	45.32	0.00	25.13
09/30/87	645	6.70	202.30	1.10	44.92	0.00	25.13
09/30/87	700	5.76	210.20	3.09	43.50	0.00	25.13
09/30/87	715	6.14	216.30	1.93	43.45	0.00	25.13
09/30/87	730	6.97	213.70	4.68	44.52	0.00	25.13

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/30/87	745	7.02	206.70	2.68	42.99	0.00	25.13
09/30/87	800	6.65	206.40	1.93	42.88	0.00	25.13
09/30/87	815	6.47	204.90	1.93	42.81	0.00	25.13
09/30/87	830	7.05	203.00	1.51	43.10	0.00	25.13
09/30/87	845	6.14	199.60	1.93	42.66	0.00	25.13
09/30/87	900	6.62	196.50	1.51	42.54	0.00	25.13
09/30/87	915	7.31	196.90	1.51	42.19	0.00	25.13
09/30/87	930	6.11	199.40	1.10	42.15	0.00	25.13
09/30/87	945	5.79	195.20	1.51	42.55	0.00	25.13
09/30/87	1000	6.27	198.50	3.50	44.03	0.00	25.13
09/30/87	1015	6.12	207.50	3.50	46.19	0.00	25.13
09/30/87	1030	5.79	220.00	4.26	47.67	0.00	25.13
09/30/87	1045	5.59	215.40	7.82	49.98	0.00	25.13
09/30/87	1100	5.85	226.80	4.32	52.01	0.00	25.13
09/30/87	1115	5.62	222.70	9.80	53.61	0.00	25.13
09/30/87	1130	5.13	230.30	15.35	55.08	0.00	25.12
09/30/87	1145	3.79	232.60	14.93	56.76	0.00	25.12
09/30/87	1200	3.36	241.20	26.69	58.15	0.00	25.12
09/30/87	1215	2.75	217.80	33.38	59.22	0.00	25.12
09/30/87	1230	2.97	219.70	14.57	60.20	0.00	25.11
09/30/87	1245	2.28	222.10	25.15	61.98	0.00	25.10
09/30/87	1300	3.17	217.20	20.91	62.43	0.00	25.08
09/30/87	1315	2.42	176.30	48.69	64.31	0.00	25.07
09/30/87	1330	2.68	71.10	9.97	65.77	0.00	25.08
09/30/87	1345	3.13	93.40	36.18	66.36	0.00	25.08
09/30/87	1400	3.30	111.90	22.52	66.56	0.00	25.07
09/30/87	1415	2.33	92.60	68.78	68.12	0.00	25.06
09/30/87	1430	4.50	150.20	27.15	67.95	0.00	25.06
09/30/87	1445	2.68	139.90	59.82	68.87	0.00	25.05
09/30/87	1500	3.24	147.10	61.31	69.79	0.00	25.05
09/30/87	1515	3.80	136.80	17.80	69.85	0.00	25.03
09/30/87	1530	3.23	112.90	43.63	71.10	0.00	24.86
09/30/87	1545	3.23	171.60	62.93	71.30	0.00	24.59
09/30/87	1600	4.49	119.30	30.34	71.70	0.00	24.60
09/30/87	1615	4.57	76.60	33.48	72.50	0.00	24.51
09/30/87	1630	3.21	61.13	13.50	73.40	0.00	24.47
09/30/87	1645	5.49	78.00	26.80	72.60	0.00	24.57
09/30/87	1700	3.50	159.10	22.17	73.70	0.00	24.49
09/30/87	1715	4.28	40.57	17.06	73.90	0.00	24.47
09/30/87	1730	3.67	107.10	36.98	74.50	0.00	24.45
09/30/87	1745	5.33	107.70	26.82	73.70	0.00	24.40
09/30/87	1800	3.28	75.80	21.37	75.50	0.00	24.41
09/30/87	1815	2.51	66.68	69.57	75.50	0.00	24.42
09/30/87	1830	1.88	72.80	37.34	75.80	0.00	24.43
09/30/87	1845	3.03	16.60	24.85	75.60	0.00	24.43
09/30/87	1900	3.72	76.70	9.97	74.80	0.00	24.48

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/30/87	1915	1.66	142.00	34.63	75.70	0.00	24.67
09/30/87	1930	1.76	115.10	18.58	75.60	0.00	24.86
09/30/87	1945	2.33	86.70	13.12	74.80	0.00	24.89
09/30/87	2000	2.64	146.60	9.16	74.10	0.00	24.96
09/30/87	2015	2.25	114.10	4.03	73.20	0.00	24.93
09/30/87	2030	1.28	110.40	0.48	71.90	0.00	24.94
09/30/87	2045	0.91	172.60	9.92	69.08	0.00	24.96
09/30/87	2100	0.55	318.70	0.48	67.75	0.00	24.96
09/30/87	2115	0.13	107.30	16.57	65.89	0.00	24.96
09/30/87	2130	0.86	137.10	6.37	66.28	0.00	24.96
09/30/87	2145	2.05	149.50	3.15	67.72	0.00	24.96
09/30/87	2200	1.88	116.60	38.04	64.61	0.00	24.96
09/30/87	2215	5.65	146.00	1.58	65.82	0.00	24.78
09/30/87	2230	8.41	153.50	4.73	64.26	0.00	24.96
09/30/87	2245	7.43	209.30	12.97	60.96	0.00	24.97
09/30/87	2300	8.77	202.50	8.65	61.93	0.00	24.97
09/30/87	2315	6.78	232.00	3.50	60.11	0.00	24.98
09/30/87	2330	6.90	219.90	9.81	59.08	0.00	24.98
09/30/87	2345	6.90	204.90	4.32	59.40	0.00	24.98
10/01/87	0	8.39	190.10	2.75	58.78	0.00	24.98
10/01/87	15	7.97	186.40	1.99	56.33	0.00	24.98
10/01/87	30	9.36	183.40	2.33	55.92	0.00	24.98
10/01/87	45	8.90	178.90	2.75	56.53	0.00	24.98
10/01/87	100	6.18	144.40	10.30	55.24	0.00	24.98
10/01/87	115	5.78	146.10	7.83	55.67	0.00	24.97
10/01/87	130	8.13	182.30	2.75	54.95	0.00	24.97
10/01/87	145	7.00	192.90	1.58	53.70	0.00	24.97
10/01/87	200	7.32	202.50	3.57	54.80	0.00	24.97
10/01/87	215	6.76	207.90	2.40	53.50	0.00	24.97
10/01/87	230	7.00	221.30	3.98	53.32	0.00	24.97
10/01/87	245	6.87	217.10	2.75	52.19	0.00	24.96
10/01/87	300	6.03	220.50	5.91	51.09	0.00	24.96
10/01/87	315	7.79	209.10	1.99	51.78	0.00	24.96
10/01/87	330	8.35	213.20	5.15	51.72	0.00	24.96
10/01/87	345	6.00	209.30	2.34	50.17	0.00	24.96
10/01/87	400	6.76	198.00	3.57	50.22	0.00	24.96
10/01/87	415	8.14	197.50	2.75	49.53	0.00	24.96
10/01/87	430	6.80	210.40	3.50	48.33	0.00	24.97
10/01/87	445	7.32	200.00	2.75	48.87	0.00	24.97
10/01/87	500	8.00	192.50	1.58	49.59	0.00	24.97
10/01/87	515	9.98	190.30	1.58	50.48	0.00	24.96
10/01/87	530	9.12	193.70	2.34	50.92	0.00	24.96
10/01/87	545	8.56	196.30	2.75	51.10	0.00	24.96
10/01/87	600	9.35	200.60	2.75	50.49	0.00	24.95
10/01/87	615	7.87	211.40	7.08	49.12	0.00	24.95
10/01/87	630	8.71	210.60	2.75	48.42	0.00	24.95

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/01/87	645	8.43	206.60	2.34	48.41	0.00	24.95
10/01/87	700	9.79	197.10	1.58	47.83	0.00	24.95
10/01/87	715	10.55	196.60	1.99	49.30	0.00	24.95
10/01/87	730	10.43	199.70	1.58	49.28	0.00	24.95
10/01/87	745	10.76	204.00	1.58	48.91	0.00	24.95
10/01/87	800	10.60	206.10	1.58	48.04	0.00	24.95
10/01/87	815	9.82	199.20	1.58	47.77	0.00	24.95
10/01/87	830	10.18	199.30	1.58	48.44	0.00	24.95
10/01/87	845	11.10	199.10	1.58	48.60	0.00	24.96
10/01/87	900	11.01	197.50	2.34	48.87	0.00	24.96
10/01/87	915	11.08	197.00	2.34	49.68	0.00	24.96
10/01/87	930	10.59	201.40	1.58	49.52	0.00	24.95
10/01/87	945	9.36	201.80	1.99	49.90	0.00	24.95
10/01/87	1000	9.06	200.80	2.68	51.57	0.00	24.95
10/01/87	1015	8.46	205.00	3.50	53.44	0.00	24.94
10/01/87	1030	8.24	208.50	3.50	55.16	0.00	24.94
10/01/87	1045	7.93	215.90	5.14	57.87	0.00	24.90
10/01/87	1100	8.21	219.30	5.55	59.69	0.00	24.94
10/01/87	1115	7.71	221.30	7.12	61.52	0.00	24.94
10/01/87	1130	5.54	221.20	5.20	64.15	0.00	24.93
10/01/87	1145	4.72	204.20	5.95	66.04	0.00	24.93
10/01/87	1200	3.08	222.80	12.18	68.43	0.00	24.94
10/01/87	1215	2.84	184.80	18.87	70.20	0.00	24.94
10/01/87	1230	2.53	211.50	28.69	71.20	0.00	24.94
10/01/87	1245	3.44	97.60	13.45	71.90	0.00	24.94
10/01/87	1300	3.28	62.92	23.20	72.90	0.00	24.94
10/01/87	1315	4.73	40.25	18.97	73.20	0.00	24.94
10/01/87	1330	4.94	43.44	9.55	74.10	0.00	24.94
10/01/87	1345	7.30	32.79	18.21	73.70	0.00	24.94
10/01/87	1400	9.90	45.57	4.84	74.70	0.00	24.94
10/01/87	1415	9.42	43.58	22.92	74.30	0.00	24.93
10/01/87	1430	11.48	33.44	11.94	75.20	0.00	24.92
10/01/87	1445	13.36	40.61	7.23	74.90	0.00	24.92
10/01/87	1500	13.77	43.29	10.72	74.80	0.00	24.92
10/01/87	1515	13.35	40.95	8.81	75.10	0.00	24.91
10/01/87	1530	13.54	44.45	9.15	75.30	0.00	24.91
10/01/87	1545	12.43	51.06	12.70	75.30	0.00	24.91
10/01/87	1600	12.13	48.89	15.43	75.60	0.00	24.91
10/01/87	1615	10.45	44.21	20.96	76.00	0.00	24.91
10/01/87	1630	9.31	40.37	10.38	75.90	0.00	24.91
10/01/87	1645	9.05	39.16	7.24	76.60	0.00	24.91
10/01/87	1700	12.04	48.54	13.86	76.50	0.00	24.90
10/01/87	1715	9.64	58.97	9.97	76.80	0.00	24.89
10/01/87	1730	9.50	62.58	10.72	77.00	0.00	24.89
10/01/87	1745	6.77	37.27	22.13	77.40	0.00	24.89
10/01/87	1800	7.55	49.19	10.72	77.40	0.00	24.89

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/01/87	1815	8.68	51.32	10.38	77.40	0.00	24.89
10/01/87	1830	9.89	52.06	12.23	77.30	0.00	24.89
10/01/87	1845	10.42	49.09	11.89	77.00	0.00	24.89
10/01/87	1900	8.55	47.63	12.23	77.20	0.00	24.89
10/01/87	1915	8.12	47.53	7.65	76.80	0.00	24.89
10/01/87	1930	5.67	42.05	4.44	77.00	0.00	24.89
10/01/87	1945	4.37	43.36	7.18	76.80	0.00	24.89
10/01/87	2000	3.99	43.22	2.05	75.80	0.00	24.89
10/01/87	2015	3.94	44.38	2.46	75.10	0.00	24.90
10/01/87	2030	0.69	15.44	19.29	73.90	0.00	24.89
10/01/87	2045	0.83	349.00	4.79	72.70	0.00	24.90
10/01/87	2100	2.51	332.20	4.45	72.70	0.00	24.90
10/01/87	2115	3.10	338.10	2.05	72.00	0.00	24.90
10/01/87	2130	6.53	18.02	11.09	68.65	0.00	24.89
10/01/87	2145	6.04	61.67	3.97	62.06	0.00	24.90
10/01/87	2200	6.23	68.14	3.56	65.73	0.00	24.89
10/01/87	2215	5.17	59.41	3.15	63.19	0.00	24.94
10/01/87	2230	3.84	50.57	3.56	60.49	0.00	24.95
10/01/87	2245	3.90	73.70	10.22	58.99	0.00	24.96
10/01/87	2300	4.35	102.60	3.50	59.42	0.00	24.97
10/01/87	2315	7.94	136.30	3.91	60.32	0.00	24.98
10/01/87	2330	8.76	133.10	1.58	61.83	0.00	24.99
10/01/87	2345	7.86	140.90	44.68	61.39	0.00	25.00
10/02/87	0	3.37	278.20	7.41	56.77	0.00	25.02
10/02/87	15	4.26	303.80	10.57	58.58	0.00	25.04
10/02/87	30	4.74	272.50	11.74	56.86	0.00	25.04
10/02/87	45	5.36	285.20	5.42	58.22	0.00	25.04
10/02/87	100	5.03	313.40	12.09	57.20	0.00	25.05
10/02/87	115	3.16	302.50	7.07	56.41	0.00	25.05
10/02/87	130	3.31	277.70	6.66	56.93	0.00	25.05
10/02/87	145	3.24	266.30	5.15	56.92	0.00	25.06
10/02/87	200	3.85	253.40	7.90	56.39	0.00	25.06
10/02/87	215	3.75	252.90	5.50	56.18	0.00	25.07
10/02/87	230	4.02	273.90	3.16	56.58	0.00	25.07
10/02/87	245	3.71	268.80	5.84	56.20	0.00	25.07
10/02/87	300	2.94	273.50	3.92	56.22	0.00	25.08
10/02/87	315	2.63	290.00	4.74	57.06	0.00	25.08
10/02/87	330	1.00	249.50	43.07	55.64	0.00	25.08
10/02/87	345	0.16	348.80	20.06	54.25	0.00	25.08
10/02/87	400	1.19	34.03	10.99	54.17	0.00	25.08
10/02/87	415	2.03	47.93	11.34	54.37	0.00	25.09
10/02/87	430	2.21	73.10	4.33	53.54	0.00	25.09
10/02/87	445	4.19	74.10	5.02	53.46	0.00	25.09
10/02/87	500	4.87	76.90	3.57	53.18	0.00	25.09
10/02/87	515	5.26	83.80	2.34	52.97	0.00	25.09
10/02/87	530	5.05	83.60	3.57	51.98	0.00	25.09

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/02/87	545	4.21	104.00	7.08	50.79	0.00	25.09
10/02/87	600	3.31	128.60	3.92	49.34	0.00	25.09
10/02/87	615	3.08	155.60	15.67	49.00	0.00	25.10
10/02/87	630	4.64	211.80	6.25	48.50	0.00	25.11
10/02/87	645	6.67	207.30	6.25	44.33	0.00	25.11
10/02/87	700	6.74	207.10	2.75	46.77	0.00	25.11
10/02/87	715	6.81	201.80	1.58	47.48	0.00	25.11
10/02/87	730	6.17	201.60	1.93	48.18	0.00	25.11
10/02/87	745	6.96	194.50	3.51	47.53	0.00	25.11
10/02/87	800	5.75	178.40	5.43	47.48	0.00	25.11
10/02/87	815	5.96	170.90	1.51	47.75	0.00	25.12
10/02/87	830	7.52	172.50	1.93	46.84	0.00	25.12
10/02/87	845	8.66	165.00	1.93	46.16	0.00	25.12
10/02/87	900	8.97	164.60	1.93	44.64	0.00	25.13
10/02/87	915	8.72	167.60	2.34	44.41	0.00	25.13
10/02/87	930	8.64	168.50	1.93	44.68	0.00	25.13
10/02/87	945	7.80	171.50	1.93	44.00	0.00	25.13
10/02/87	1000	6.99	181.60	2.75	44.79	0.00	25.13
10/02/87	1015	5.42	185.90	4.33	46.74	0.00	25.13
10/02/87	1030	5.41	194.40	5.84	48.74	0.00	25.13
10/02/87	1045	5.80	205.40	8.99	50.22	0.00	25.13
10/02/87	1100	5.04	203.90	8.64	52.50	0.00	25.13
10/02/87	1115	5.23	200.70	8.29	53.76	0.00	25.12
10/02/87	1130	4.96	215.70	7.54	55.12	0.00	25.12
10/02/87	1145	3.99	208.80	22.40	55.87	0.00	25.12
10/02/87	1200	3.24	214.40	28.69	57.31	0.00	25.12
10/02/87	1215	4.07	205.20	20.88	58.13	0.00	25.13
10/02/87	1230	4.86	187.20	7.94	59.28	0.00	25.12
10/02/87	1245	4.54	208.40	22.37	60.73	0.00	25.12
10/02/87	1300	4.18	220.40	35.69	61.88	0.00	25.12
10/02/87	1315	3.59	186.80	24.74	63.07	0.00	25.12
10/02/87	1330	4.15	224.50	10.66	63.93	0.00	25.07
10/02/87	1345	4.14	226.20	21.92	64.59	0.00	25.10
10/02/87	1400	4.43	174.40	18.91	65.31	0.00	25.10
10/02/87	1415	2.90	2.12	34.61	66.46	0.00	25.09
10/02/87	1430	4.62	173.60	31.05	67.49	0.00	25.09
10/02/87	1445	3.77	180.80	71.50	67.46	0.00	25.08
10/02/87	1500	3.23	76.50	61.69	68.48	0.00	25.08
10/02/87	1515	4.03	223.80	44.08	69.25	0.00	25.08
10/02/87	1530	3.82	180.50	14.26	70.10	0.00	25.07
10/02/87	1545	3.06	161.90	15.89	71.10	0.00	25.07
10/02/87	1600	3.91	56.93	17.39	71.50	0.00	25.07
10/02/87	1615	2.44	13.93	55.87	72.50	0.00	25.06
10/02/87	1630	3.76	94.50	30.70	72.70	0.00	25.06
10/02/87	1645	3.15	58.34	39.77	73.70	0.00	25.06
10/02/87	1700	4.13	93.70	16.30	73.80	0.00	25.05

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/02/87	1715	4.12	37.70	18.97	73.70	0.00	25.04
10/02/87	1730	2.61	350.80	19.38	74.00	0.00	25.04
10/02/87	1745	3.22	75.50	46.06	75.00	0.00	25.04
10/02/87	1800	3.38	6.49	19.79	74.70	0.00	25.04
10/02/87	1815	4.50	22.46	8.81	74.60	0.00	25.04
10/02/87	1830	3.54	22.70	30.31	74.90	0.00	25.04
10/02/87	1845	2.39	75.90	28.75	75.70	0.00	25.03
10/02/87	1900	3.15	53.43	16.94	75.70	0.00	25.03
10/02/87	1915	3.91	28.44	9.15	75.50	0.00	25.03
10/02/87	1930	5.32	30.52	6.83	74.50	0.00	25.03
10/02/87	1945	4.39	26.19	9.91	74.10	0.00	25.03
10/02/87	2000	2.28	15.36	4.79	73.30	0.00	25.04
10/02/87	2015	1.27	7.75	1.23	72.00	0.00	25.04
10/02/87	2030	1.49	358.30	13.88	70.30	0.00	25.04
10/02/87	2045	0.92	7.43	1.64	68.68	0.00	25.04
10/02/87	2100	0.64	15.21	18.96	67.00	0.00	25.04
10/02/87	2115	0.23	19.91	23.96	65.90	0.00	25.04
10/02/87	2130	1.15	74.30	38.90	65.72	0.00	25.05
10/02/87	2145	0.27	347.50	0.82	64.55	0.00	25.05
10/02/87	2200	0.61	301.90	8.70	64.30	0.00	25.05
10/02/87	2215	2.72	321.60	3.15	66.76	0.00	25.05
10/02/87	2230	0.52	318.80	52.18	63.86	0.00	25.06
10/02/87	2245	0.70	7.60	66.31	63.43	0.00	25.06
10/02/87	2300	3.54	214.00	2.53	64.51	0.00	25.06
10/02/87	2315	5.83	159.00	3.09	62.73	0.00	25.08
10/02/87	2330	7.50	195.90	3.91	63.70	0.00	25.08
10/02/87	2345	6.93	222.30	2.33	62.34	0.00	25.09
10/03/87	0	5.95	216.70	7.41	60.58	0.00	25.09
10/03/87	15	6.71	206.20	2.33	60.09	0.00	25.09
10/03/87	30	7.49	200.20	1.92	58.91	0.00	25.09
10/03/87	45	8.01	197.70	1.10	57.66	0.00	25.09
10/03/87	100	8.62	190.70	1.99	56.83	0.00	25.09
10/03/87	115	5.65	181.90	5.90	55.15	0.00	25.09
10/03/87	130	9.19	191.00	1.92	56.42	0.00	25.10
10/03/87	145	9.08	186.50	2.33	54.42	0.00	25.10
10/03/87	200	8.68	194.10	0.76	54.39	0.00	25.10
10/03/87	215	8.59	192.50	1.10	53.55	0.00	25.10
10/03/87	230	7.38	195.60	1.92	51.82	0.00	25.10
10/03/87	245	6.89	204.20	3.16	52.04	0.00	25.10
10/03/87	300	7.85	207.90	1.99	52.06	0.00	25.10
10/03/87	315	7.34	203.30	1.99	51.61	0.00	25.10
10/03/87	330	8.01	206.60	0.41	51.46	0.00	25.10
10/03/87	345	6.68	205.50	1.92	50.83	0.00	25.10
10/03/87	400	7.56	201.30	1.58	51.31	0.00	25.10
10/03/87	415	6.99	204.10	1.99	50.85	0.00	25.10
10/03/87	430	7.24	209.80	1.99	49.88	0.00	25.10

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/03/87	445	7.77	211.20	2.75	49.89	0.00	25.10
10/03/87	500	8.87	207.20	1.58	49.79	0.00	25.10
10/03/87	515	7.88	204.00	1.99	49.07	0.00	25.10
10/03/87	530	7.90	207.00	1.58	48.84	0.00	25.10
10/03/87	545	8.37	208.20	2.34	48.08	0.00	25.10
10/03/87	600	8.45	204.80	1.58	47.91	0.00	25.10
10/03/87	615	8.78	201.40	1.58	47.98	0.00	25.10
10/03/87	630	8.82	204.30	1.58	48.03	0.00	25.10
10/03/87	645	7.88	204.80	1.99	47.56	0.00	25.10
10/03/87	700	9.61	199.30	1.58	47.67	0.00	25.10
10/03/87	715	10.01	200.00	1.99	48.18	0.00	25.10
10/03/87	730	11.32	197.70	1.58	48.95	0.00	25.10
10/03/87	745	11.21	197.70	1.17	49.28	0.00	25.10
10/03/87	800	7.82	227.10	32.57	48.33	0.00	25.10
10/03/87	815	5.48	222.20	4.33	47.98	0.00	25.10
10/03/87	830	7.28	204.70	1.58	50.02	0.00	25.10
10/03/87	845	7.71	202.80	3.57	50.19	0.00	25.10
10/03/87	900	7.76	212.00	2.34	50.81	0.00	25.10
10/03/87	915	8.15	209.80	1.17	51.28	0.00	25.10
10/03/87	930	8.76	203.20	2.75	50.97	0.00	25.11
10/03/87	945	8.65	199.30	1.58	50.45	0.00	25.11
10/03/87	1000	8.20	196.40	2.68	51.98	0.00	25.11
10/03/87	1015	8.66	200.60	2.33	53.70	0.00	25.11
10/03/87	1030	9.01	209.30	4.32	55.04	0.00	25.11
10/03/87	1045	8.91	212.20	3.15	56.85	0.00	25.11
10/03/87	1100	8.02	211.00	5.90	58.68	0.00	25.11
10/03/87	1115	7.00	211.70	4.73	60.96	0.00	25.10
10/03/87	1130	8.20	214.60	4.79	62.53	0.00	25.11
10/03/87	1145	7.22	214.30	8.35	64.52	0.00	25.11
10/03/87	1200	6.74	214.00	6.36	66.47	0.00	25.11
10/03/87	1215	6.11	217.10	13.47	68.50	0.00	25.09
10/03/87	1230	5.22	208.60	8.34	70.20	0.00	25.06
10/03/87	1245	5.42	206.30	10.66	71.50	0.00	25.03
10/03/87	1300	4.68	206.70	10.65	72.90	0.00	25.10
10/03/87	1315	4.82	195.20	8.33	73.90	0.00	25.10
10/03/87	1330	4.03	184.40	24.42	75.40	0.00	25.10
10/03/87	1345	3.91	161.60	19.37	76.90	0.00	25.10
10/03/87	1400	3.78	171.70	14.25	78.50	0.00	25.07
10/03/87	1415	5.68	85.90	8.38	78.50	0.00	25.06
10/03/87	1430	4.62	88.90	72.30	78.90	0.00	25.06
10/03/87	1445	5.26	57.00	17.38	79.80	0.00	25.05
10/03/87	1500	5.14	96.90	29.17	79.90	0.00	25.05
10/03/87	1515	5.37	64.84	31.41	80.30	0.00	25.05
10/03/87	1530	6.53	99.70	8.38	80.50	0.00	25.04
10/03/87	1545	6.77	68.80	15.47	80.20	0.00	25.04
10/03/87	1600	6.10	106.00	28.01	80.30	0.00	25.03

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/03/87	1615	7.32	109.30	10.43	80.70	0.00	25.03
10/03/87	1630	6.77	69.78	26.79	81.20	0.00	25.03
10/03/87	1645	5.82	47.25	25.64	81.50	0.00	25.02
10/03/87	1700	4.44	60.70	66.89	81.50	0.00	25.02
10/03/87	1715	6.10	76.40	9.61	81.50	0.00	25.01
10/03/87	1730	6.22	62.49	23.73	81.00	0.00	25.01
10/03/87	1745	4.38	71.40	22.99	81.70	0.00	24.99
10/03/87	1800	4.99	85.70	9.21	81.60	0.00	24.99
10/03/87	1815	6.05	105.80	7.23	81.30	0.00	24.99
10/03/87	1830	6.10	111.30	11.53	81.20	0.00	24.99
10/03/87	1845	3.50	124.00	9.56	81.60	0.00	25.00
10/03/87	1900	3.17	110.70	11.19	81.70	0.00	24.99
10/03/87	1915	4.89	106.70	10.38	80.90	0.00	25.00
10/03/87	1930	4.36	94.80	10.79	80.80	0.00	25.00
10/03/87	1945	5.22	139.00	8.81	80.20	0.00	25.00
10/03/87	2000	5.26	142.90	6.42	78.80	0.00	25.00
10/03/87	2015	7.66	134.00	1.30	77.60	0.00	24.99
10/03/87	2030	7.54	123.90	2.05	77.40	0.00	25.00
10/03/87	2045	7.39	135.90	2.12	76.20	0.00	24.99
10/03/87	2100	8.02	143.80	3.22	75.40	0.00	24.99
10/03/87	2115	8.77	135.70	1.64	75.60	0.00	24.99
10/03/87	2130	8.93	136.40	3.22	74.40	0.00	25.00
10/03/87	2145	10.57	145.50	1.99	73.60	0.00	25.01
10/03/87	2200	12.59	141.00	1.99	70.10	0.00	25.01
10/03/87	2215	12.79	153.80	1.58	66.67	0.00	25.01
10/03/87	2230	10.06	169.30	16.52	64.75	0.00	25.01
10/03/87	2245	8.30	199.90	2.74	63.12	0.00	25.01
10/03/87	2300	9.10	195.20	2.33	64.10	0.00	25.01
10/03/87	2315	9.67	198.00	1.17	64.88	0.00	25.01
10/03/87	2330	9.94	197.00	3.91	63.71	0.00	25.01
10/03/87	2345	9.98	194.20	2.33	62.30	0.00	25.01
10/04/87	0	9.68	192.30	1.51	61.78	0.00	25.02
10/04/87	15	10.10	193.30	2.75	61.61	0.00	25.02
10/04/87	30	8.71	183.60	3.09	59.25	0.00	25.02
10/04/87	45	9.19	186.40	1.51	59.69	0.00	25.03
10/04/87	100	7.49	188.70	2.68	58.35	0.00	25.03
10/04/87	115	8.48	195.30	2.75	58.63	0.00	25.03
10/04/87	130	5.07	210.30	7.83	57.69	0.00	25.03
10/04/87	145	6.54	210.60	3.16	57.65	0.00	25.03
10/04/87	200	8.05	210.40	5.91	56.72	0.00	25.03
10/04/87	215	10.57	201.20	1.17	57.11	0.00	25.03
10/04/87	230	9.84	203.50	1.17	59.20	0.00	25.03
10/04/87	245	9.37	206.70	2.33	59.32	0.00	25.03
10/04/87	300	10.04	204.60	1.17	60.49	0.00	25.03
10/04/87	315	9.79	203.50	4.74	59.42	0.00	25.03
10/04/87	330	8.40	203.00	1.58	57.68	0.00	25.03

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/04/87	345	7.93	200.00	3.57	56.53	0.00	25.03
10/04/87	400	7.87	202.50	1.58	55.23	0.00	25.03
10/04/87	415	8.85	204.00	0.41	53.94	0.00	25.03
10/04/87	430	9.23	202.00	2.40	52.40	0.00	25.04
10/04/87	445	10.59	201.80	1.58	52.65	0.00	25.03
10/04/87	500	12.65	204.60	2.75	53.27	0.00	25.03
10/04/87	515	13.03	201.70	1.99	54.42	0.00	25.02
10/04/87	530	12.02	200.60	1.99	54.50	0.00	25.02
10/04/87	545	11.61	203.20	2.40	53.46	0.00	25.02
10/04/87	600	11.42	201.40	1.99	53.07	0.00	25.02
10/04/87	615	12.28	200.70	1.99	53.03	0.00	25.02
10/04/87	630	12.35	197.00	3.57	52.90	0.00	25.01
10/04/87	645	12.67	199.60	2.82	52.90	0.00	25.01
10/04/87	700	12.08	201.90	1.99	52.73	0.00	25.01
10/04/87	715	11.66	201.90	1.58	52.31	0.00	25.01
10/04/87	730	11.28	202.20	1.99	52.17	0.00	25.01
10/04/87	745	10.71	200.30	1.99	51.83	0.00	25.01
10/04/87	800	10.75	210.00	4.33	51.32	0.00	25.01
10/04/87	815	12.02	214.20	1.99	51.46	0.00	25.01
10/04/87	830	10.89	210.60	3.98	51.55	0.00	25.01
10/04/87	845	11.12	198.90	3.57	51.45	0.00	25.01
10/04/87	900	8.27	196.60	4.74	51.04	0.00	25.01
10/04/87	915	11.47	205.00	3.57	51.52	0.00	25.01
10/04/87	930	9.58	214.70	7.08	50.69	0.00	25.01
10/04/87	945	9.93	205.60	2.40	51.04	0.00	25.01
10/04/87	1000	7.91	219.50	5.15	51.36	0.00	25.01
10/04/87	1015	7.17	214.20	3.16	53.67	0.00	25.00
10/04/87	1030	9.75	207.70	3.91	57.00	0.00	25.00
10/04/87	1045	10.17	200.40	4.39	58.70	0.00	25.00
10/04/87	1100	9.47	202.90	3.98	60.78	0.00	24.99
10/04/87	1115	10.27	201.00	3.97	62.22	0.00	24.99
10/04/87	1130	9.78	204.00	6.37	64.24	0.00	24.99
10/04/87	1145	9.10	199.00	4.38	66.50	0.00	24.98
10/04/87	1200	7.51	202.10	6.36	69.31	0.00	24.93
10/04/87	1215	6.93	223.80	5.54	71.50	0.00	24.20
10/04/87	1230	5.64	226.40	7.11	73.10	0.00	24.57
10/04/87	1245	4.95	215.60	14.62	74.80	0.00	24.98
10/04/87	1300	4.34	198.30	30.65	76.40	0.00	24.96
10/04/87	1315	4.39	234.40	11.87	77.60	0.00	24.93
10/04/87	1330	3.17	278.20	22.51	79.10	0.00	24.45
10/04/87	1345	3.98	263.10	38.93	78.40	0.00	24.83
10/04/87	1400	3.38	346.10	14.25	79.40	0.00	24.73
10/04/87	1415	6.25	293.00	26.78	78.80	0.00	24.68
10/04/87	1430	4.43	251.40	54.66	79.20	0.00	22.48
10/04/87	1445	4.66	298.30	20.51	78.80	0.00	21.87
10/04/87	1500	5.40	291.90	38.58	79.10	0.00	22.08

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/04/87	1515	5.78	269.90	12.27	79.00	0.00	22.06
10/04/87	1530	5.23	298.80	25.98	79.10	0.00	22.14
10/04/87	1545	5.88	321.30	22.51	79.00	0.00	21.92
10/04/87	1600	3.98	330.40	60.58	78.90	0.00	22.06
10/04/87	1615	5.44	282.80	18.97	80.40	0.00	21.71
10/04/87	1630	4.97	299.20	34.25	80.00	0.00	21.89
10/04/87	1645	5.37	302.60	13.92	80.30	0.00	21.31
10/04/87	1700	7.21	310.80	31.11	81.20	0.00	21.61
10/04/87	1715	4.94	339.50	22.16	81.20	0.00	22.01
10/04/87	1730	3.80	351.90	25.98	80.10	0.00	21.96
10/04/87	1745	3.47	324.70	51.17	80.10	0.00	21.80
10/04/87	1800	7.08	316.50	8.39	80.50	0.00	21.15
10/04/87	1815	6.02	325.40	18.97	80.40	0.00	20.95
10/04/87	1830	6.66	324.00	9.56	80.70	0.00	21.02
10/04/87	1845	5.48	305.60	12.29	80.50	0.00	21.45
10/04/87	1900	3.29	295.10	15.43	80.00	0.00	21.99
10/04/87	1915	4.49	31.27	7.24	78.70	0.00	22.58
10/04/87	1930	6.05	58.05	4.44	76.90	0.00	24.68
10/04/87	1945	6.37	73.90	4.38	76.70	0.00	24.88
10/04/87	2000	4.89	85.50	3.21	75.20	0.00	24.88
10/04/87	2015	5.57	83.20	3.62	75.70	0.00	24.88
10/04/87	2030	6.92	91.80	1.71	75.20	0.00	24.87
10/04/87	2045	6.03	89.50	2.05	73.60	0.00	24.87
10/04/87	2100	5.04	84.00	2.81	73.60	0.00	24.87
10/04/87	2115	2.76	82.90	2.46	72.00	0.00	24.88
10/04/87	2130	4.11	318.30	19.73	71.70	0.00	24.89
10/04/87	2145	3.71	282.60	8.29	71.70	0.00	24.89
10/04/87	2200	3.24	269.10	18.50	67.14	0.00	24.89
10/04/87	2215	1.52	186.60	5.89	67.41	0.00	24.89
10/04/87	2230	5.12	201.60	3.15	69.36	0.00	24.88
10/04/87	2245	7.94	220.00	4.73	69.05	0.00	24.89
10/04/87	2300	5.42	226.30	3.98	68.00	0.00	24.89
10/04/87	2315	7.04	229.80	3.15	67.40	0.00	24.90
10/04/87	2330	6.94	227.90	3.98	65.84	0.00	24.90
10/04/87	2345	4.83	229.60	7.06	64.88	0.00	24.90
10/05/87	0	3.72	218.20	5.49	63.90	0.00	24.91
10/05/87	15	6.87	82.50	7.89	62.04	0.00	24.92
10/05/87	30	9.34	90.40	2.74	63.80	0.00	24.93
10/05/87	45	8.25	91.50	3.57	60.91	0.00	24.93
10/05/87	100	7.80	81.00	2.33	59.17	0.00	24.93
10/05/87	115	9.33	105.50	2.75	63.35	0.00	24.93
10/05/87	130	9.34	106.80	1.58	62.31	0.00	24.93
10/05/87	145	7.17	188.50	10.23	58.59	0.00	24.93
10/05/87	200	6.91	221.70	3.50	57.45	0.00	24.94
10/05/87	215	4.96	213.80	2.33	57.31	0.00	24.93
10/05/87	230	4.36	170.10	2.68	57.88	0.00	24.93

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/05/87	245	4.24	123.40	13.39	56.35	0.00	24.94
10/05/87	300	2.98	157.90	25.54	54.36	0.00	24.94
10/05/87	315	1.04	329.00	56.44	53.61	0.00	24.95
10/05/87	330	3.35	340.30	13.39	52.02	0.00	24.96
10/05/87	345	4.63	32.00	9.41	52.22	0.00	24.99
10/05/87	400	4.66	10.21	3.92	53.34	0.00	24.99
10/05/87	415	6.47	351.10	7.49	54.13	0.00	25.00
10/05/87	430	9.23	334.60	3.98	54.32	0.00	25.01
10/05/87	445	10.73	337.70	1.58	52.84	0.00	25.01
10/05/87	500	9.43	338.10	1.58	52.06	0.00	25.02
10/05/87	515	8.20	330.90	4.40	51.58	0.00	25.02
10/05/87	530	7.08	327.10	4.74	51.69	0.00	25.03
10/05/87	545	8.38	332.80	2.34	51.05	0.00	25.03
10/05/87	600	8.38	338.50	1.99	49.93	0.00	25.04
10/05/87	615	4.14	335.80	3.57	47.69	0.00	25.04
10/05/87	630	6.71	338.50	1.58	49.42	0.00	25.05
10/05/87	645	6.32	344.00	8.25	49.65	0.00	25.06
10/05/87	700	4.05	357.70	2.75	49.27	0.00	25.06
10/05/87	715	5.44	18.49	2.34	48.52	0.00	25.06
10/05/87	730	4.09	11.99	2.75	47.00	0.00	25.07
10/05/87	745	3.49	26.65	4.67	45.27	0.00	25.08
10/05/87	800	2.97	22.73	1.58	45.15	0.00	25.09
10/05/87	815	4.75	23.39	2.68	44.72	0.00	25.09
10/05/87	830	4.32	15.79	1.17	44.28	0.00	25.10
10/05/87	845	4.64	338.30	12.93	44.23	0.00	25.10
10/05/87	900	6.21	295.50	1.93	44.20	0.00	25.11
10/05/87	915	5.27	304.20	4.26	43.59	0.00	25.11
10/05/87	930	4.07	322.20	3.09	43.81	0.00	25.11
10/05/87	945	3.17	343.30	14.92	43.82	0.00	25.11
10/05/87	1000	2.31	1.16	7.08	43.89	0.00	25.11
10/05/87	1015	2.10	359.10	11.34	44.76	0.00	25.12
10/05/87	1030	2.48	358.90	15.32	45.75	0.00	25.12
10/05/87	1045	2.70	19.56	16.55	46.80	0.00	25.12
10/05/87	1100	2.97	47.12	10.98	47.86	0.00	25.12
10/05/87	1115	3.04	98.70	25.04	48.71	0.00	25.12
10/05/87	1130	3.83	97.70	20.44	49.45	0.00	25.12
10/05/87	1145	5.18	65.27	16.11	50.47	0.00	25.12
10/05/87	1200	6.77	44.33	17.27	50.43	0.00	25.12
10/05/87	1215	5.38	43.73	12.13	51.19	0.00	25.12
10/05/87	1230	4.10	98.50	15.75	52.23	0.00	25.12
10/05/87	1245	5.43	80.20	13.01	52.17	0.00	25.12
10/05/87	1300	3.09	98.30	52.58	53.37	0.00	25.10
10/05/87	1315	4.68	75.70	16.90	53.34	0.00	25.10
10/05/87	1330	5.53	96.20	25.94	53.65	0.00	25.10
10/05/87	1345	3.44	75.20	76.50	54.59	0.00	25.09
10/05/87	1400	5.13	110.90	22.02	54.41	0.00	25.08

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/05/87	1415	4.82	88.80	18.94	55.22	0.00	25.07
10/05/87	1430	5.04	47.23	35.77	55.47	0.00	25.07
10/05/87	1445	7.22	59.56	17.64	56.06	0.00	25.06
10/05/87	1500	3.78	109.70	40.48	56.60	0.00	25.06
10/05/87	1515	4.61	106.00	29.13	56.95	0.00	25.05
10/05/87	1530	4.20	130.70	10.73	58.22	0.00	25.04
10/05/87	1545	3.91	111.00	31.85	58.84	0.00	25.03
10/05/87	1600	4.50	53.51	11.48	59.30	0.00	25.01
10/05/87	1615	3.27	51.56	50.30	60.11	0.00	25.01
10/05/87	1630	5.61	68.95	26.32	59.90	0.00	25.00
10/05/87	1645	4.27	119.70	32.27	60.08	0.00	25.00
10/05/87	1700	3.28	39.45	37.39	61.02	0.00	24.99
10/05/87	1715	3.17	139.10	46.42	62.11	0.00	24.98
10/05/87	1730	5.71	166.80	15.04	61.16	0.00	24.96
10/05/87	1745	2.88	169.70	71.50	62.36	0.00	24.97
10/05/87	1800	3.40	52.23	21.33	62.98	0.00	24.97
10/05/87	1815	3.41	109.90	24.07	62.52	0.00	24.97
10/05/87	1830	4.27	78.00	16.55	62.49	0.00	24.97
10/05/87	1845	4.48	64.12	15.46	62.51	0.00	24.97
10/05/87	1900	3.19	61.85	31.47	62.80	0.00	24.98
10/05/87	1915	2.44	34.18	9.17	63.30	0.00	24.98
10/05/87	1930	1.89	120.70	28.74	63.13	0.00	24.98
10/05/87	1945	1.56	70.80	22.52	63.26	0.00	24.97
10/05/87	2000	1.64	101.50	9.99	62.30	0.00	24.97
10/05/87	2015	1.28	116.80	20.13	60.75	0.00	24.97
10/05/87	2030	1.65	120.80	7.53	59.71	0.00	24.97
10/05/87	2045	1.67	107.80	4.79	58.75	0.00	24.97
10/05/87	2100	1.41	96.30	17.68	57.48	0.00	24.98
10/05/87	2115	2.42	64.23	5.90	56.35	0.00	24.98
10/05/87	2130	2.25	72.20	3.15	55.99	0.00	24.99
10/05/87	2145	3.47	76.60	4.73	56.10	0.00	25.00
10/05/87	2200	3.14	62.64	5.08	56.41	0.00	25.00
10/05/87	2215	6.38	83.40	3.09	55.05	0.00	25.01
10/05/87	2230	7.69	98.40	2.40	53.77	0.00	25.01
10/05/87	2245	8.66	104.00	1.58	54.19	0.00	25.01
10/05/87	2300	8.80	104.70	1.58	53.03	0.00	25.02
10/05/87	2315	8.83	109.10	1.58	52.39	0.00	25.03
10/05/87	2330	8.49	120.60	1.58	51.72	0.00	25.03
10/05/87	2345	10.60	134.30	1.58	50.68	0.00	25.04
10/06/87	0	10.56	134.20	1.92	49.05	0.00	25.04
10/06/87	15	10.50	131.30	3.16	46.76	0.00	25.04
10/06/87	30	6.92	173.00	2.34	44.44	0.00	25.04
10/06/87	45	7.56	172.70	1.92	45.81	0.00	25.04
10/06/87	100	8.94	164.90	2.34	48.68	0.00	25.04
10/06/87	115	8.66	175.80	5.09	48.95	0.00	25.04
10/06/87	130	8.28	184.90	3.92	49.74	0.00	25.04

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/06/87	145	8.85	179.90	3.92	50.53	0.00	25.04
10/06/87	200	9.36	183.80	1.92	48.13	0.00	25.04
10/06/87	215	9.38	188.30	1.92	46.94	0.00	25.04
10/06/87	230	8.23	191.20	1.92	46.82	0.00	25.04
10/06/87	245	8.56	194.50	1.51	46.31	0.00	25.04
10/06/87	300	8.37	191.40	3.51	46.30	0.00	25.04
10/06/87	315	9.03	193.10	1.93	45.91	0.00	25.04
10/06/87	330	7.69	190.70	1.93	44.61	0.00	25.04
10/06/87	345	4.96	181.50	53.27	43.20	0.00	25.04
10/06/87	400	4.75	165.80	2.68	42.94	0.00	25.04
10/06/87	415	4.66	167.10	5.02	41.75	0.00	25.04
10/06/87	430	5.57	142.20	5.43	40.40	0.00	25.05
10/06/87	445	2.11	174.60	15.20	39.94	0.00	25.05
10/06/87	500	3.20	115.70	7.02	40.83	0.00	25.05
10/06/87	515	6.12	164.50	1.86	43.14	0.00	25.04
10/06/87	530	5.20	173.40	3.10	43.60	0.00	25.03
10/06/87	545	3.64	140.80	72.40	37.68	0.00	25.03
10/06/87	600	1.21	315.60	3.85	36.38	0.00	25.03
10/06/87	615	1.15	331.70	10.53	36.76	0.00	25.03
10/06/87	630	1.87	270.90	11.29	36.54	0.00	25.03
10/06/87	645	1.39	326.40	14.86	36.21	0.00	25.03
10/06/87	700	1.80	343.70	3.85	36.91	0.00	25.03
10/06/87	715	2.76	347.90	4.61	36.80	0.00	25.03
10/06/87	730	1.63	352.10	3.85	36.01	0.00	25.03
10/06/87	745	1.04	13.27	14.04	35.49	0.00	25.03
10/06/87	800	1.35	1.36	9.36	35.92	0.00	25.03
10/06/87	815	0.74	12.83	14.46	36.32	0.00	25.03
10/06/87	830	0.88	46.08	8.19	36.01	0.00	25.03
10/06/87	845	1.31	178.10	1.86	36.20	0.00	25.03
10/06/87	900	4.01	183.10	3.03	37.21	0.00	25.03
10/06/87	915	5.72	191.60	2.27	38.14	0.00	25.03
10/06/87	930	7.78	195.00	1.10	39.20	0.00	25.03
10/06/87	945	6.70	193.90	1.86	40.64	0.00	25.03
10/06/87	1000	6.70	190.00	1.93	40.63	0.00	25.03
10/06/87	1015	6.50	184.60	3.51	41.68	0.00	25.02
10/06/87	1030	6.22	190.70	3.98	43.88	0.00	25.02
10/06/87	1045	5.40	205.70	6.73	45.87	0.00	25.02
10/06/87	1100	4.55	216.60	7.48	47.53	0.00	25.01
10/06/87	1115	3.76	226.80	16.12	48.95	0.00	25.01
10/06/87	1130	3.00	231.10	17.69	50.58	0.00	25.01
10/06/87	1145	2.87	244.90	40.43	52.05	0.00	25.00
10/06/87	1200	2.87	247.60	24.38	53.12	0.00	25.00
10/06/87	1215	2.56	237.10	48.26	54.81	0.00	25.00
10/06/87	1230	2.57	249.80	49.46	55.85	0.00	25.00
10/06/87	1245	3.35	223.40	28.72	56.34	0.00	25.00
10/06/87	1300	3.59	230.00	13.74	57.33	0.00	25.00

RMA METEOROLOGICAL DATA
FROM STATION M1
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/06/87	1315	3.41	214.00	36.98	58.51	0.00	25.00
10/06/87	1330	2.98	309.50	18.11	59.78	0.00	25.00
10/06/87	1345	2.75	296.70	45.97	61.00	0.00	24.99
10/06/87	1400	4.05	230.40	43.98	61.47	0.00	24.99
10/06/87	1415	2.10	229.80	47.12	64.01	0.00	24.98
10/06/87	1430	2.56	255.80	41.71	64.13	0.00	24.97
10/06/87	1445	3.08	10.07	31.12	65.11	0.00	24.97
10/06/87	1500	5.81	346.40	36.58	65.00	0.00	24.98
10/06/87	1515	5.09	42.80	35.76	65.42	0.00	24.97
10/06/87	1530	5.28	346.90	28.66	65.55	0.00	24.96
10/06/87	1545	7.01	50.41	30.65	66.02	0.00	24.96
10/06/87	1600	5.94	45.80	21.30	66.04	0.00	24.95
10/06/87	1615	5.40	33.26	20.89	66.69	0.00	24.95
10/06/87	1630	6.68	74.70	30.66	66.26	0.00	24.95
10/06/87	1645	7.28	48.82	10.66	66.81	0.00	24.95
10/06/87	1700	9.53	38.42	15.78	66.30	0.00	24.95
10/06/87	1715	6.51	43.44	33.01	66.51	0.00	24.94
10/06/87	1730	4.94	62.98	25.15	66.77	0.00	24.94
10/06/87	1745	8.23	33.33	13.81	66.83	0.00	24.94
10/06/87	1800	5.14	25.33	44.37	67.01	0.00	24.93
10/06/87	1815	6.08	32.21	18.53	67.20	0.00	24.93
10/06/87	1830	4.90	30.21	13.47	67.13	0.00	24.94
10/06/87	1845	5.93	49.45	11.42	67.05	0.00	24.94
10/06/87	1900	6.39	44.49	18.47	67.00	0.00	24.94
10/06/87	1915	6.87	68.14	8.41	66.42	0.00	24.94
10/06/87	1930	4.96	57.24	4.86	66.77	0.00	24.94
10/06/87	1945	6.75	39.24	6.02	65.89	0.00	24.94
10/06/87	2000	7.06	36.92	3.29	64.81	0.00	24.94
10/06/87	2015	6.82	41.86	2.12	63.98	0.00	24.96
10/06/87	2030	5.04	47.33	1.64	63.38	0.00	24.96
10/06/87	2045	3.45	60.55	5.21	61.86	0.00	24.96
10/06/87	2100	5.34	67.16	2.81	60.93	0.00	24.97
10/06/87	2115	5.89	81.70	4.39	60.50	0.00	24.98
10/06/87	2130	6.38	95.80	1.17	59.52	0.00	24.98
10/06/87	2145	6.92	94.30	1.17	59.36	0.00	25.00
10/06/87	2200	6.74	94.00	14.55	58.48	0.00	25.00
10/06/87	2215	8.28	121.60	1.17	56.68	0.00	25.00
10/06/87	2230	8.95	128.70	1.92	55.94	0.00	25.00
10/06/87	2245	9.43	125.50	1.99	55.21	0.00	25.01
10/06/87	2300	8.62	111.20	5.84	56.35	0.00	25.02
10/06/87	2315	9.41	97.20	1.99	52.48	0.00	25.03
10/06/87	2330	8.80	100.40	1.58	50.64	0.00	25.03
10/06/87	2345	7.48	104.30	1.99	49.88	0.00	25.04
10/07/87	0	3.81	151.70	22.74	49.29	0.00	25.04
10/07/87	15	2.43	184.20	28.65	49.17	0.00	25.05
10/07/87	30	2.60	164.10	19.24	49.62	0.00	25.05

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/07/87	45	4.49	257.90	8.24	49.97	0.00	25.06
10/07/87	100	4.24	263.30	34.50	48.83	0.00	25.07
10/07/87	115	2.30	247.40	10.24	48.35	0.00	25.07
10/07/87	130	1.76	240.60	10.24	48.36	0.00	25.07
10/07/87	145	1.44	273.30	4.33	49.24	0.00	25.07
10/07/87	200	1.79	305.30	3.09	50.59	0.00	25.07
10/07/87	215	2.02	333.20	3.92	50.89	0.00	25.07
10/07/87	230	1.47	348.40	14.92	50.65	0.00	25.07
10/07/87	245	2.08	32.43	16.09	49.73	0.00	25.07
10/07/87	300	2.50	68.41	15.67	48.40	0.00	25.07
10/07/87	315	3.08	108.00	5.84	48.63	0.00	25.07
10/07/87	330	5.40	129.70	1.51	48.16	0.00	25.06
10/07/87	345	6.46	141.40	1.51	48.37	0.00	25.06
10/07/87	400	8.05	152.80	3.85	46.58	0.00	25.06
10/07/87	415	9.23	161.80	3.51	43.14	0.00	25.05
10/07/87	430	10.63	151.10	1.51	39.20	0.00	25.05
10/07/87	445	11.98	152.60	3.10	39.29	0.00	25.04
10/07/87	500	9.68	163.60	1.51	40.30	0.00	25.03
10/07/87	515	7.95	166.50	2.27	39.09	0.00	25.03
10/07/87	530	7.49	164.50	2.27	38.90	0.00	25.03
10/07/87	545	9.11	164.60	5.78	40.18	0.00	25.02
10/07/87	600	9.85	163.60	6.95	39.78	0.00	25.01
10/07/87	615	8.62	160.70	2.68	38.69	0.00	25.00
10/07/87	630	8.28	160.30	3.85	39.38	0.00	24.99
10/07/87	645	7.16	165.00	5.02	40.12	0.00	24.99
10/07/87	700	8.06	153.10	4.61	38.69	0.00	24.99
10/07/87	715	7.30	167.00	5.02	39.78	0.00	24.99
10/07/87	730	6.24	177.90	5.78	42.54	0.00	24.98
10/07/87	745	2.31	189.80	21.47	37.95	0.00	24.98
10/07/87	800	2.67	259.10	36.75	34.27	0.00	24.98
10/07/87	815	1.91	225.50	5.71	37.51	0.00	24.98
10/07/87	830	4.04	192.70	2.20	40.01	0.00	24.97
10/07/87	845	4.34	199.60	2.27	41.29	0.00	24.97
10/07/87	900	6.17	210.90	1.45	41.15	0.00	24.97
10/07/87	915	6.57	218.00	3.44	40.41	0.00	24.97
10/07/87	930	8.34	203.90	1.03	39.44	0.00	24.96
10/07/87	945	6.38	204.20	4.27	39.29	0.00	24.96
10/07/87	1000	6.18	202.10	3.85	40.21	0.00	24.95
10/07/87	1015	6.49	205.30	4.67	42.40	0.00	24.95
10/07/87	1030	5.18	221.80	7.83	45.04	0.00	24.94
10/07/87	1045	5.86	245.00	5.91	47.01	0.00	24.94
10/07/87	1100	5.22	248.80	11.40	48.36	0.00	24.93
10/07/87	1115	4.19	255.30	9.40	49.99	0.00	24.93
10/07/87	1130	3.09	251.80	11.80	50.75	0.00	24.93
10/07/87	1145	3.67	263.50	11.45	51.22	0.00	24.92
10/07/87	1200	3.80	281.00	21.26	52.10	0.00	24.91

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/07/87	1215	4.39	265.60	6.72	53.12	0.00	24.91
10/07/87	1230	3.75	258.00	7.95	54.04	0.00	24.91
10/07/87	1245	2.96	256.00	21.65	54.50	0.00	24.91
10/07/87	1300	2.79	232.40	28.29	55.10	0.00	24.89
10/07/87	1315	2.17	253.60	34.18	56.31	0.00	24.89
10/07/87	1330	2.27	252.10	36.91	57.55	0.00	24.89
10/07/87	1345	2.28	231.10	20.88	58.46	0.00	24.89
10/07/87	1400	2.69	171.50	19.30	59.83	0.00	24.88
10/07/87	1415	3.50	176.80	35.79	61.36	0.00	24.86
10/07/87	1430	4.76	190.90	17.37	63.33	0.00	24.86
10/07/87	1445	3.90	189.10	29.95	65.42	0.00	24.85
10/07/87	1500	4.23	154.60	18.94	68.35	0.00	24.84
10/07/87	1515	5.53	158.70	34.23	70.40	0.00	24.83
10/07/87	1530	5.11	125.90	20.90	72.30	0.00	24.82
10/07/87	1545	7.01	100.90	17.00	72.90	0.00	24.80
10/07/87	1600	7.39	98.40	27.18	73.80	0.00	24.79
10/07/87	1615	5.89	104.70	22.87	75.00	0.00	24.79
10/07/87	1630	8.29	120.50	14.68	74.90	0.00	24.78
10/07/87	1645	5.99	124.30	26.01	75.60	0.00	24.77
10/07/87	1700	6.72	141.00	13.52	76.20	0.00	24.77
10/07/87	1715	7.46	120.50	27.99	77.30	0.00	24.75
10/07/87	1730	9.76	115.40	10.38	76.50	0.00	24.74
10/07/87	1745	5.38	135.50	27.17	76.60	0.00	24.73
10/07/87	1800	4.79	108.80	12.70	76.20	0.00	24.73
10/07/87	1815	6.89	94.30	8.40	77.00	0.00	24.73
10/07/87	1830	6.02	91.90	22.07	77.90	0.00	24.73
10/07/87	1845	7.53	90.50	13.05	77.30	0.00	24.73
10/07/87	1900	6.56	128.00	7.99	77.50	0.00	24.72
10/07/87	1915	6.02	122.30	9.57	77.[illegible]0	0.00	24.72
10/07/87	1930	4.78	130.30	13.87	77.[illegible]0	0.00	24.72
10/07/87	1945	3.13	133.10	6.36	76.[illegible]0	0.00	24.71
10/07/87	2000	3.35	146.80	5.20	76.10	0.00	24.72
10/07/87	2015	1.46	122.80	9.51	75.00	0.00	24.72
10/07/87	2030	0.44	300.50	27.09	72.10	0.00	24.72
10/07/87	2045	0.85	66.68	5.20	69.99	0.00	24.72
10/07/87	2100	0.81	149.80	18.89	68.[illegible]3	0.00	24.72
10/07/87	2115	4.34	201.20	4.38	6[illegible].[illegible]8	0.00	24.72
10/07/87	2130	8.14	193.60	10.28	6[illegible].13	0.00	24.72
10/07/87	2145	12.18	190.10	3.56	65.38	0.00	24.72
10/07/87	2200	9.69	203.30	3.22	64.62	0.00	24.73
10/07/87	2215	9.56	219.50	4.80	64.24	0.00	24.74
10/07/87	2230	11.01	211.20	3.98	64.34	0.00	24.74
10/07/87	2245	9.28	213.40	4.73	62.25	0.00	24.74
10/07/87	2300	10.22	204.20	6.31	61.01	0.00	24.74
10/07/87	2315	7.81	207.20	14.95	58.55	0.00	24.74
10/07/87	2330	8.08	244.80	21.20	58.14	0.00	24.75

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/07/87	2345	6.84	219.20	7.48	57.74	0.00	24.75
10/08/87	0	7.35	188.00	2.75	56.45	0.00	24.75
10/08/87	15	9.09	196.50	1.58	55.87	0.00	24.75
10/08/87	30	9.34	197.80	1.58	54.92	0.00	24.76
10/08/87	45	7.76	184.50	4.39	54.38	0.00	24.76
10/08/87	100	9.22	189.40	1.92	55.00	0.00	24.76
10/08/87	115	10.06	196.20	1.92	55.15	0.00	24.76
10/08/87	130	10.98	199.80	1.99	54.79	0.00	24.76
10/08/87	145	9.98	202.10	1.99	53.63	0.00	24.76
10/08/87	200	10.52	206.20	1.92	53.06	0.00	24.76
10/08/87	215	10.08	204.30	5.15	52.50	0.00	24.76
10/08/87	230	7.09	208.60	5.56	52.82	0.00	24.76
10/08/87	245	8.24	195.50	1.99	52.37	0.00	24.76
10/08/87	300	8.73	199.60	3.98	51.09	0.00	24.75
10/08/87	315	9.65	211.80	5.84	49.92	0.00	24.74
10/08/87	330	8.32	205.30	5.50	49.80	0.00	24.74
10/08/87	345	7.22	209.60	5.50	49.22	0.00	24.74
10/08/87	400	9.42	208.50	4.33	49.83	0.00	24.74
10/08/87	415	7.55	192.00	5.15	51.03	0.00	24.74
10/08/87	430	8.56	212.50	4.74	49.68	0.00	24.74
10/08/87	445	9.25	200.10	3.16	50.55	0.00	24.74
10/08/87	500	8.73	200.50	4.74	50.30	0.00	24.74
10/08/87	515	8.34	206.60	3.57	50.07	0.00	24.74
10/08/87	530	9.90	202.30	1.99	51.48	0.00	24.74
10/08/87	545	8.57	205.90	6.66	51.78	0.00	24.74
10/08/87	600	8.14	217.30	3.92	51.14	0.00	24.74
10/08/87	615	7.25	207.00	3.57	51.47	0.00	24.74
10/08/87	630	6.95	201.10	1.58	51.77	0.00	24.74
10/08/87	645	9.45	195.90	1.17	52.62	0.00	24.74
10/08/87	700	10.03	195.50	1.99	53.90	0.00	24.74
10/08/87	715	11.14	190.70	1.58	53.23	0.00	24.74
10/08/87	730	11.21	190.40	1.99	52.42	0.00	24.74
10/08/87	745	10.54	191.10	1.99	52.19	0.00	24.74
10/08/87	800	10.14	196.70	2.34	52.25	0.00	24.74
10/08/87	815	11.50	194.60	3.16	52.92	0.00	24.74
10/08/87	830	11.47	199.40	2.34	52.55	0.00	24.74
10/08/87	845	10.06	202.60	3.16	52.82	0.00	24.74
10/08/87	900	7.19	227.80	7.07	51.12	0.00	24.74
10/08/87	915	8.18	214.10	3.98	51.70	0.00	24.74
10/08/87	930	5.36	208.10	71.80	52.39	0.00	24.74
10/08/87	945	3.01	135.70	10.23	52.65	0.00	24.76
10/08/87	1000	5.50	131.20	10.64	54.16	0.00	24.76
10/08/87	1015	7.20	177.90	5.15	57.09	0.00	24.76
10/08/87	1030	6.54	177.80	2.75	58.23	0.00	24.76
10/08/87	1045	6.09	176.10	4.32	60.10	0.00	24.77
10/08/87	1100	5.77	191.50	12.21	61.98	0.00	24.76

RMA METEOROLOGICAL DATA
FROM STATION M1
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/08/87	1115	3.22	190.90	21.67	64.31	0.00	24.76
10/08/87	1130	2.25	239.20	18.16	66.26	0.00	24.76
10/08/87	1145	2.12	78.60	35.42	67.35	0.00	24.75
10/08/87	1200	1.56	7.23	24.45	68.45	0.00	24.71
10/08/87	1215	4.20	13.01	15.81	67.66	0.00	24.47
10/08/87	1230	3.19	352.90	35.45	67.80	0.00	24.67
10/08/87	1245	6.13	21.74	8.41	68.36	0.00	24.73
10/08/87	1300	9.76	24.67	21.62	67.43	0.00	24.78
10/08/87	1315	8.15	40.62	11.15	67.55	0.00	24.78
10/08/87	1330	11.94	28.22	11.14	69.38	0.00	24.75
10/08/87	1345	14.39	34.63	10.39	69.90	0.00	24.75
10/08/87	1400	13.55	31.62	6.77	70.10	0.00	24.75
10/08/87	1415	11.72	36.52	14.63	70.90	0.00	24.73
10/08/87	1430	13.55	65.23	13.46	70.90	0.00	24.74
10/08/87	1445	13.62	56.33	18.93	71.30	0.00	24.74
10/08/87	1500	12.10	42.69	9.91	71.80	0.00	24.75
10/08/87	1515	13.94	48.96	9.09	72.00	0.00	24.74
10/08/87	1530	11.58	38.35	9.09	72.70	0.00	24.73
10/08/87	1545	9.65	52.55	17.77	72.60	0.00	24.73

APPENDIX D.2
DENVER METEOROLOGICAL DATA

SUMMARY OF MONTHLY CLIMATIC DATA FOR DENVER WSFO AP COLORADO FOR YEARS 1948-1986 SUBSTATION NO. 52220 DIVISION 4

LATITUDE - 39 45 LONGITUDE - 104 52 ELEVATION - 5280 FEET

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
MONTHLY MEAN MAXIMUM TEMP (F)	AVE.	42.9	46.8	51.4	61.1	70.3	81.2	87.7	85.8	77.3	66.4	52.3	45.5	64.1
	MAX.	54.7	59.6	61.2	70.2	79.1	88.6	92.4	89.9	82.3	76.7	64.9	55.0	67.8
	YEAR	1986	1954	1972	1981	1974	1956	1964	1962	1977	1950	1949	1980	1954
	MIN.	28.6	35.8	40.4	51.7	62.5	72.8	81.8	81.2	68.1	49.5	40.4	28.2	60.4
	YEAR	1949	1960	1965	1983	1983	1967	1950	1963	1965	1969	1985	1983	1983
	YEARS OF RECORD	39	39	39	39	39	39	39	39	39	39	39	39	39
MONTHLY MEAN MINIMUM TEMP (F)	AVE.	16.0	20.1	25.1	34.1	43.7	52.6	58.8	57.2	48.0	37.0	25.2	18.6	36.4
	MAX.	26.3	27.8	33.1	42.5	49.1	58.2	62.9	61.1	54.2	43.1	32.4	27.4	40.7
	YEAR	1953	1954	1986	1981	1958	1956	1980	1983	1981	1950	1949	1980	1981
	MIN.	4.0	13.8	17.5	28.1	39.2	48.3	54.7	53.4	42.4	28.4	19.1	6.7	34.0
	YEAR	1949	1960	1965+	1968	1968+	1951	1972	1974	1971	1969	1985	1983	1968
	YEARS OF RECORD	39	39	39	39	39	39	39	39	39	39	39	39	39
MONTHLY MEAN AVERAGE TEMP (F)	AVE.	29.5	33.5	38.3	47.6	57.0	66.9	73.3	71.6	62.7	51.7	38.8	32.1	50.2
	MAX.	40.3	43.7	47.1	56.4	61.7	73.4	76.9	74.4	68.2	59.9	48.7	41.2	54.0
	YEAR	1986	1954	1986	1981	1958	1956	1966	1983	1981	1950	1949	1980	1981
	MIN.	16.3	24.8	29.0	41.0	51.4	60.6	68.9	68.1	55.7	39.0	29.8	17.5	48.3
	YEAR	1949	1960	1965	1983	1983	1967	1950	1968	1965	1969	1985	1983	1951
	YEARS OF RECORD	39	39	39	39	39	39	39	39	39	39	39	39	39
DEGREE DAYS (BASE 65F)	AVE.	1080.1	880.3	816.5	520.1	252.4	59.8	5.2	7.7	127.8	412.1	786.1	1014.6	5962.7
	MAX.	1450	1159	1108	712	419	164	42	35	296	801	1051	1469	6715
	YEAR	1979	1960	1965	1983	1983	1951	1972	1968	1965	1969	1985	1983	1983
	MIN.	758	589	548	260	137	0	0	0	19	229	570	731	4784
	YEAR	1986	1954	1986	1981	1977+	1977+	1986+	1986+	1981	1963	1981	1980	1981
	YEARS OF RECORD	36	36	36	36	36	36	36	36	36	36	36	36	36
NO DAYS MAX TEMP GTR OR EQ 90F	AVE.	0.0	0.0	0.0	0.0	0.3	6.3	14.3	9.4	2.5	0.0	0.0	0.0	33.3
	MAX.	0	0	0	0	2	15	27	22	7	0	0	0	52
	YEAR	1948	1948	1948	1948	1974+	1952	1964	1960	1978	1948	1948	1948	1978
	MIN.	0	0	0	0	0	0	2	1	0	0	0	0	4
	YEAR	1986+	1986+	1986+	1986+	1986+	1972+	1967	1984+	1986+	1986+	1986+	1986+	1967
	YEARS OF RECORD	38	38	38	38	38	39	39	39	39	38	38	38	38
NO DAYS MAX TEMP LESS OR EQ 32F	AVE.	7.0	4.5	3.2	0.5	0.0	0.0	0.0	0.0	0.0	0.2	2.6	4.6	22.8
	MAX.	20	11	11	4	0	0	0	0	1	2	10	14	41
	YEAR	1949	1955	1969	1983	1948	1948	1948	1948	1985	1972+	1985	1983	1983
	MIN.	0	0	0	0	0	0	0	0	0	0	0	0	10
	YEAR	1986+	1970+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1985+	1984+	1976+	1981
	YEARS OF RECORD	39	39	39	38	38	38	38	38	38	38	39	39	38
NO DAYS MIN TEMP LESS OR EQ 32F	AVE.	29.5	26.0	25.1	12.2	1.6	0.0	0.0	0.0	0.8	7.9	24.0	29.2	156.5
	MAX.	31	29	30	23	7	1	0	0	5	18	30	31	187
	YEAR	1985+	1984+	1970+	1968	1967	1951	1948	1948	1985	1984+	1972	1986+	1984
	MIN.	21	20	15	2	0	0	0	0	0	1	13	22	115
	YEAR	1953	1986	1978	1981	1986+	1986+	1986+	1986+	1982+	1950	1981	1977	1961
	YEARS OF RECORD	39	39	39	39	39	38	38	38	38	39	39	39	38
NO DAYS MIN TEMP LESS OR EQ 0 F	AVE.	3.7	1.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.2	8.9
	MAX.	13	7	5	1	0	0	0	0	0	0	4	11	20
	YEAR	1962	1985+	1948	1975	1948	1948	1948	1948	1948	1948	1952	1983+	1972
	MIN.	0	0	0	0	0	0	0	0	0	0	0	0	2
	YEAR	1986+	1984+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1984+	1957+
	YEARS OF RECORD	39	38	39	38	38	38	38	38	38	38	39	39	38
HIGHEST TEMPERATURE (F)	TEMP	73	76	84	85	93	102	103	100	97	87	78	75	
	YEAR AND DAY	198226	196305	197126	196021	197428	195423	197306	198006+	196004	197506+	197808+	198027	
	YEARS OF RECORD	39	39	39	39	39	39	39	39	39	39	39	39	
LOWEST TEMPERATURE (F)	TEMP	-25	-25	-10	-2	22	30	43	41	17	3	-8	-21	
	YEAR AND DAY	196312	195101	194805	197502	195402	195102	197205+	196423	198529	196913	195010	198321	
	YEARS OF RECORD	39	39	39	39	39	39	39	39	39	39	39	39	

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FORT COLLINS, CO 80523
(303) 491 - 8545

SUMMARY OF MONTHLY CLIMATIC DATA FOR DENVER WSFO AP COLORADO FOR YEARS 1948-1986 SUBSTATION NO. 52220 DIVISION 4

LATITUDE - 39 45 LONGITUDE - 104 52 ELEVATION - 5280 FEET

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
MONTHLY PRECIPITATION (IN)	AVE.	0.52	0.62	1.28	1.85	2.46	1.70	1.84	1.42	1.14	1.02	0.83	0.58	15.25
	MAX.	1.44	1.66	4.56	4.13	7.31	4.69	6.41	5.85	4.67	4.17	2.63	2.84	23.31
	YEAR	1948	1960	1983	1957	1957	1967	1965	1979	1961	1969	1983	1973	1967
	MIN.	0.01	0.01	0.18	0.03	0.06	0.09	0.54	0.06	0.01	0.05	0.01	0.03	7.51
	YEAR	1952	1970	1982	1963	1974	1980	1978+	1960	1956	1962	1949	1977	1954
	YEARS OF RECORD	39	39	39	39	39	39	39	39	39	39	39	39	39
GREATEST DAILY PRECIP (IN)	AMOUNT	0.92	1.01	2.68	3.25	3.27	3.16	2.05	1.93	1.44	1.58	0.95	2.00	
	YEAR AND DAY	196208	195319	198305	196713	197306	197011	196525	195103	197328	196018	197920	198224	
	YEARS OF RECORD	39	39	39	39	39	39	39	39	39	39	39	39	
MONTHLY SNOWFALL (IN)	AVE.	7.7	7.7	13.8	9.2	2.0	0.0	0.0	0.0	1.7	4.1	8.8	7.7	62.8
	MAX.	23.7	18.3	30.5	25.5	13.7	0.8	0.0	1.3	17.2	31.2	29.3	30.8	112.0
	YEAR	1948	1960	1983	1957	1950	1951	1948	1951	1971	1969	1983	1973	1959
	MIN.	0.3	0.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	27.9
	YEAR	1952	1970	1982	1969	1986+	1986+	1986+	1986+	1986+	1983+	1949	1977	1977
	YEARS OF RECORD	39	39	39	39	39	39	39	39	39	39	39	39	39
GRTST DEPTH SNOW ON GRND IN MON (IN)		14	10	15	16	7	1	0	1	10	11	17	24	
	YEAR AND DAY	194826	0	0	0	197807+	195305	0	195131	197118	196913	197921	0	
	YEARS OF RECORD	39	37	39	33	27	34	36	39	35	29	39	38	
NO DAYS PRECIP GTR OR EQ 0.1 IN	AVE.	2.1	2.6	4.6	5.0	6.0	4.8	4.9	4.0	3.0	3.1	2.9	2.2	45.3
	MAX.	9	9	12	15	13	17	15	12	8	9	9	8	105
	YEAR	1951+	1952+	1949	1951	1953+	1949	1949	1949	1961+	1969	1952	1953	1951
	MIN.	0	0	1	0	0	0	1	0	0	0	1	0	22
	YEAR	1984+	1983+	1982+	1963	1974	1980+	1963	1985+	1978+	1962+	1984+	1980+	1954
	YEARS OF RECORD	39	39	39	39	39	39	39	39	39	39	39	39	39
NO DAYS PRECIP GTR OR EQ 0.5 IN	AVE.	0.1	0.1	0.5	1.0	1.5	0.8	1.1	0.8	0.6	0.6	0.3	0.1	7.6
	MAX.	2	1	4	3	5	5	4	7	4	4	3	2	22
	YEAR	1949	1962+	1949	1973+	1957	1949	1965	1979	1961	1984	1983	1973	1949
	MIN.	0	0	0	0	0	0	0	0	0	0	0	0	2
	YEAR	1986+	1986+	1986+	1983+	1984+	1986+	1982+	1986+	1986+	1985+	1986+	1986+	1964+
	YEARS OF RECORD	38	38	38	38	38	38	38	38	38	38	38	38	38
NO DAYS PRECIP GTR OR EQ 1.0 IN	AVE.	0.0	0.0	0.1	0.2	0.5	0.3	0.4	0.2	0.2	0.1	0.0	0.1	2.0
	MAX.	0	1	1	1	2	1	3	2	2	1	0	1	5
	YEAR	1948	1953	1983+	1980+	1967+	1983+	1956	1951	1961	1984+	1948	1982+	1969
	MIN.	0	0	0	0	0	0	0	0	0	0	0	0	0
	YEAR	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1986+
	YEARS OF RECORD	38	38	38	39	39	39	38	38	38	38	38	38	38
NUMBER OF DAYS WITH HAIL	AVE.	0.0	0.0	0.0	0.3	1.3	0.7	0.9	0.7	0.2	0.1	0.0	0.0	4.3
	MAX.	0	0	1	2	3	4	5	3	1	2	1	0	10
	YEAR	1956	1956	1958	1972	1977+	1967	1965	1979+	1976+	1957	1978	1956	1972
	MIN.	0	0	0	0	0	0	0	0	0	0	0	0	1
	YEAR	1981+	1981+	1981+	1980+	1975+	1981+	1981+	1978+	1981+	1981+	1981+	1981+	1975+
	YEARS OF RECORD	26	26	26	26	26	26	26	26	26	26	26	26	26

** NOTE : MANY WEATHER STATIONS DO NOT RECORD ALL HAIL OCCURRENCES. THEREFORE THESE DATA MAY NOT BE REPRESENTATIVE.

NO. OF DAYS WITH SNOW ON GROUND	AVE.	11.9	7.3	6.8	2.6	0.4	0.0	0.0	0.0	0.4	1.6	7.1	9.8	48.0
(GTR OR EQ 1 INCH ON GROUND)	MAX.	31	17	16	7	3	0	0	0	4	13	17	31	104
	YEAR	1983	1965	1983	1973	1978	1963	1963	1963	1971	1969	1985+	1983	1983
	MIN.	2	0	1	0	0	0	0	0	0	0	1	0	16
	YEAR	1981+	1970	1986+	1985+	1986+	1986+	1986+	1986+	1986+	1983+	1982	1977	1977
	YEARS OF RECORD	24	24	24	24	24	24	24	24	24	24	24	24	24

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DENVER WSFO AP 52220 Latitude,Longitude,Elevation = 3945 10452 5280

Max. Temp. in 1/10 deg. F. (eg. 36.5 = 365)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1948	404	393	453	666	725	793	876	875	815	667	490	429	63.2
1949	286	448	518	622	689	775	859	853	776	632	649	474	63.2
1950	450	526	524	620	656	811	818	830	730	767	532	505	64.7
1951	391	472	495	558	701	734	879	840	765	612	517	411	61.5
1952	484	484	461	613	691	873	876	862	807	693	448	445	64.5
1953	529	458	577	548	658	842	871	846	815	680	561	442	65.2
1954	502	596	488	687	701	852	907	869	796	673	584	490	67.9
1955	388	401	504	649	725	772	904	862	779	695	490	486	63.8
1956	469	405	536	585	741	886	856	829	813	715	496	480	65.1
1957	382	546	515	526	646	793	865	858	759	621	476	540	62.7
1958	465	501	425	558	743	818	833	872	787	676	551	481	64.3
1959	428	412	497	587	679	852	872	862	748	611	531	496	63.1
1960	399	358	503	640	703	824	869	897	808	661	543	389	63.3
1961	440	483	505	602	675	810	876	866	694	652	474	406	62.4
1962	334	414	469	644	753	804	892	899	792	706	555	490	64.6
1963	331	515	508	657	767	827	912	812	817	738	580	439	65.9
1964	455	396	451	599	744	799	924	862	789	702	523	461	64.2
1965	488	408	404	653	706	763	868	844	681	718	592	494	63.5
1966	440	422	590	597	749	797	920	849	793	684	569	457	65.6
1967	489	503	585	639	660	728	824	829	775	686	564	405	64.1
1968	441	472	558	578	686	846	864	821	766	684	484	442	63.7
1969	498	497	449	666	719	737	888	887	790	495	534	464	63.5
1970	452	555	462	581	750	802	869	894	753	605	531	497	64.6
1971	457	434	540	622	683	864	862	886	725	647	542	464	64.4
1972	459	519	612	629	712	828	857	853	760	658	445	378	64.3
1973	398	475	504	550	683	836	857	888	743	704	534	450	63.5
1974	375	490	585	624	791	839	905	855	746	672	511	437	65.3
1975	464	452	504	582	680	795	872	862	753	705	508	505	64.0
1976	463	541	517	629	703	820	891	846	743	631	530	509	65.2
1977	439	518	538	633	749	863	878	829	823	694	537	491	66.6
1978	375	422	570	636	671	806	904	855	812	682	498	369	63.3
1979	306	473	520	621	665	799	895	825	807	677	445	476	62.6
1980	375	461	499	594	684	870	898	871	807	670	553	550	65.3
1981	520	518	525	702	674	842	900	848	821	652	597	487	67.4
1982	430	462	549	616	668	755	864	864	739	629	486	431	62.4
1983	421	474	455	517	625	750	874	877	810	678	494	282	60.5
1984	390	454	485	535	739	803	890	845	741	551	543	457	61.9
1985	375	404	545	638	730	820	863	877	715	651	404	416	62.0
1986	547	487	610	622	699	840	880	867	746	622	514	435	65.6

DENVER WSFO AP 52220 Latitude,Longitude,Elevation = 3945 10452 5280

Min. Temp. in 1/10 deg. F. (eg. 12.3 = 123)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1948	123	139	175	365	449	535	577	581	519	359	238	164	35.2
1949	40	165	271	362	450	525	588	574	488	359	324	176	36.0
1950	137	246	238	333	403	521	559	547	480	431	250	221	36.4
1951	146	206	221	318	444	483	590	574	464	352	245	168	35.1
1952	213	215	214	351	444	567	586	583	504	373	198	206	37.1
1953	263	196	294	307	410	551	609	578	505	407	301	186	38.4
1954	223	278	218	384	442	534	628	585	518	377	302	203	39.1
1955	156	141	225	353	455	507	606	599	498	384	233	222	36.5
1956	210	149	265	324	476	582	588	565	497	402	247	234	37.8
1957	133	268	266	302	432	524	605	594	468	407	260	251	37.6
1958	193	246	231	333	491	544	573	599	500	401	261	235	38.4
1959	172	192	255	325	445	565	579	598	474	350	221	234	36.8
1960	153	138	259	369	440	542	594	571	492	378	246	141	36.0
1961	194	221	272	318	439	512	554	577	432	348	220	147	35.3
1962	55	183	223	362	442	506	565	550	456	362	270	185	34.7
1963	51	231	238	343	450	507	584	562	501	420	254	131	35.6
1964	156	151	209	333	432	501	592	546	461	351	276	203	35.1
1965	212	140	175	371	436	515	585	560	432	383	274	206	35.7
1966	131	146	259	295	424	495	617	567	506	360	260	180	35.3
1967	190	199	273	325	392	484	558	535	467	364	245	125	34.6
1968	153	212	254	281	392	509	569	541	451	354	230	136	34.0
1969	201	210	194	378	467	492	606	591	499	284	247	186	36.3
1970	159	216	208	292	425	502	570	583	437	312	250	168	34.3
1971	184	177	229	334	400	516	550	569	424	340	240	173	34.5
1972	150	204	283	341	428	537	547	566	481	383	212	120	35.4
1973	148	234	293	314	428	514	562	581	455	386	256	181	36.3
1974	98	213	278	333	441	529	588	534	442	376	248	186	35.5
1975	169	160	241	300	405	490	582	553	437	359	228	245	34.7
1976	183	244	224	354	430	506	614	558	492	336	260	200	36.7
1977	144	241	259	388	464	575	607	575	508	371	268	210	38.4
1978	141	205	296	369	417	531	590	537	487	379	257	123	36.1
1979	54	211	290	361	431	517	578	564	518	399	221	214	36.3
1980	144	229	261	359	458	568	629	592	508	378	285	274	39.0
1981	226	205	299	425	467	565	617	592	542	400	320	228	40.7
1982	175	178	273	331	433	507	589	598	495	350	227	187	36.2
1983	216	257	268	303	403	506	591	611	488	376	245	67	36.1
1984	155	227	258	310	460	527	607	591	472	344	250	199	36.7
1985	136	149	271	381	469	539	596	570	461	363	191	172	35.8
1986	259	235	331	369	435	566	590	576	467	364	265	185	38.7

DENVER WSFO AP 52220 Latitude,Longitude,Elevation = 3945 10452 5280

Mean Temp. in 1/10 deg. F. (eg. 26.4 = 264)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1948	264	266	314	516	587	664	726	728	667	513	364	297	49.2
1949	163	307	395	492	570	650	724	714	632	496	487	325	49.6
1950	294	386	381	477	530	666	689	689	605	599	391	363	50.6
1951	269	339	358	438	573	609	735	707	615	482	381	290	48.3
1952	349	350	338	482	568	720	731	723	656	533	323	326	50.8
1953	396	327	436	428	534	697	740	712	660	544	431	314	51.8
1954	363	437	353	536	572	693	768	727	657	525	443	347	53.5
1955	272	271	365	501	590	640	755	731	639	540	362	354	50.2
1956	340	277	401	455	609	734	722	697	655	559	372	357	51.5
1957	258	407	391	414	539	659	735	726	614	514	368	396	50.2
1958	329	374	328	446	617	681	703	736	644	539	406	358	51.3
1959	300	302	376	456	562	709	726	730	611	481	376	365	50.0
1960	276	248	381	505	572	683	732	734	650	520	395	265	49.7
1961	317	352	389	460	557	661	715	722	563	500	347	277	48.8
1962	195	299	346	503	598	655	729	725	624	534	413	338	49.7
1963	191	373	373	500	609	667	748	687	659	579	417	285	50.7
1964	306	274	330	466	588	650	758	704	625	527	400	332	49.7
1965	350	274	290	512	571	639	727	702	557	551	433	350	49.6
1966	286	284	425	446	587	646	769	708	650	522	415	319	50.5
1967	340	35[illegible]	429	482	526	606	691	682	621	525	405	265	49.4
1968	297	342	406	430	539	678	717	681	609	519	357	289	48.9
1969	350	354	322	522	593	615	747	739	645	390	391	325	49.9
1970	306	386	335	437	588	652	720	739	595	459	391	333	49.5
1971	321	306	385	478	542	690	706	728	575	494	391	319	49.5
1972	305	362	448	485	570	683	70[illegible]	710	621	521	329	249	49.9
1973	273	355	399	432	556	675	710	735	599	545	395	316	49.9
1974	237	352	432	479	616	684	747	695	594	524	380	312	50.4
1975	317	306	373	441	543	643	727	708	595	532	368	375	49.4
1976	323	393	371	492	567	663	753	702	618	484	395	355	51.0
1977	292	380	399	511	607	719	743	702	666	533	403	351	52.5
1978	258	314	433	503	544	669	747	696	650	531	378	246	49.7
1979	180	342	405	491	548	658	737	695	663	538	333	345	49.5
1980	260	345	380	477	571	719	764	732	658	524	419	412	52.2
1981	373	362	412	564	571	704	759	720	682	526	459	358	54.1
1982	303	320	411	474	551	631	727	731	617	490	357	309	49.3
1983	319	366	362	410	514	628	733	744	649	527	370	175	48.3
1984	273	341	372	423	600	665	749	718	607	448	397	328	49.3
1985	256	277	408	510	600	680	730	724	588	507	298	294	48.9
1986	403	361	471	496	567	703	735	722	607	493	390	310	52.2

DENVER WSFO AP 52220 Latitude,Longitude,Elevation = 3945 10452 5280

Heating Degree Days (65 deg. base)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1948	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	------
1949	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	------
1950	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	------
1951	1175	866	898	628	248	164	17	12	139	513	799	1108	6567.0
1952	927	865	962	496	253	0	23	0	68	354	971	1000	5919.0
1953	781	897	656	660	353	30	0	0	47	329	649	1033	5435.0
1954	884	589	912	333	256	42	0	4	71	395	616	934	5036.0
1955	1163	1054	878	444	203	105	0	2	126	336	858	911	6080.0
1956	955	1072	764	581	143	0	1	20	66	277	829	901	5609.0
1957	1206	674	795	701	333	74	0	0	141	420	838	782	5964.0
1958	986	765	990	606	138	36	14	4	106	342	724	898	5609.0
1959	1081	968	841	572	273	25	0	6	191	518	815	876	6166.0
1960	1151	1159	827	434	245	38	7	13	90	396	759	1187	6306.0
1961	1026	828	804	560	299	65	14	0	273	459	902	1150	6380.0
1962	1411	976	934	437	175	72	0	19	112	352	703	961	6152.0
1963	1417	768	848	442	156	50	6	7	29	229	690	1125	5767.0
1964	1059	1082	982	545	230	72	0	16	123	375	743	981	6208.0
1965	921	1044	1108	411	245	63	6	7	296	302	645	924	5972.0
1966	1122	1017	691	604	204	82	0	9	61	391	699	1018	5898.0
1967	954	832	679	498	388	135	4	16	108	389	729	1186	5918.0
1968	1086	885	751	655	343	38	10	35	145	399	871	1114	6332.0
1969	925	821	1011	378	204	144	2	0	56	801	769	998	6109.0
1970	1061	734	969	632	200	78	0	0	198	584	770	977	6203.0
1971	1018	958	817	508	329	25	24	0	273	479	771	1019	6221.0
1972	1063	832	621	486	246	4	42	15	107	397	960	1239	6012.0
1973	1162	820	771	646	290	56	8	0	166	321	758	1029	6027.0
1974	1277	831	671	507	137	67	0	9	199	381	803	1043	5925.0
1975	1024	957	852	621	332	85	0	4	195	363	840	843	6116.0
1976	1006	740	859	469	254	64	0	7	142	509	759	907	5716.0
1977	1105	749	771	414	137	0	2	14	38	358	737	920	5245.0
1978	1206	936	665	435	335	87	0	20	96	366	811	1245	6202.0
1979	1450	854	751	473	313	81	0	20	58	347	941	939	6227.0
1980	1204	876	828	514	247	9	0	4	56	386	683	731	5538.0
1981	853	801	727	260	243	26	0	12	19	375	570	898	4784.0
1982	1070	918	733	522	306	92	3	0	151	487	875	1050	6207.0
1983	1017	789	885	712	419	129	3	0	87	372	833	1469	6715.0
1984	1163	889	854	673	183	51	0	1	183	622	753	990	6362.0
1985	1215	1041	742	412	167	42	0	1	241	435	1051	1094	6441.0
1986	758	802	548	456	260	22	0	0	145	477	775	1045	5288.0

DENVER WSFO AP 52220 Latitude,Longitude,Elevation = 3945 10452 5280

Highest Temp. and Date (packed TTTDD, eg. 103 degrees on the 23rd = 10323)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	6108	6426	6923	8329	8817	9117	9313	9417	9504	8103	7114	6603
1949	5101	6622	7219	8424	8503	9329	9317	9522	9116	8305	7318	7105
1950	7021	7126	7130	8122	8323	9324	9110	9131	9101	8712	7427	6523
1951	6826	7311	7026	7528	9028	9125	9715	9401	9211	8012	6510	6501
1952	6224	6626	6430	7807	8313	9712	9621	9416	9304	7903	7404	6415
1953	7209	6801	7528	8227	8821	9929	9603	9526	9227	8501	7315	5831
1954	7031	7508	7009	8023	9120	10223	10211	9703	8902	8602	7210	6720
1955	5513	5817	7330	8326	8530	9423	9910	9403	9201	8108	7204	7323
1956	7205	6223	7525	7726	8508	9613	9426	9105	9220	8407	7110	6229
1957	5920	6914	6609	7221	7828	9329	9702	9501	8908	8402	7026	7109
1958	6308	7022	6421	7916	8729	9529	9613	9509	9312	8418	7610	6503
1959	6524	5815	6818	8130	8101	9423	9528	9718	9506	8025	7009	6803
1960	6109	6008	7526	8521	8412	9729	9601	9831	9704	8408	7225	6702
1961	6423	7011	6924	8319	9011	9529	9917	9606	8518	8116	6501	6525
1962	6302	7211	7227	8320	9012	9528	9706	10014	9112	8710	7205	6717
1963	6531	7605	8328	8314	8730	9628	9925	9601	9218	8504	7315	6406
1964	6520	6401	6831	8116	9125	9527	9827	9510	9205	8601	7408	7123
1965	6506	6526	7031	8422	8420	8722	9615	9712	8606	8409	7301	6805
1966	6508	5804	7631	7926	8830	9328	9816	9611	9109	8126	7021	6705
1967	6411	6928	7929	8029	8724	8527	9322	9324	8802	8703	7415	6023
1968	6225	6124	7429	7530	8529	9720	9520	9205	8811	8329	7112	6611
1969	6907	6825	7431	8024	8930	9528	9702	10008	8906	8502	6707	6714
1970	6927	7217	6724	8026	8720	9728	9318	9802	9011	8104	7625	6808
1971	6920	6813	8426	7810	8528	9825	10117	9422	9407	8310	7510	6923
1972	6323	7428	7709	8011	8525	8929	10030	9812	8627	8310	6008	6527
1973	6316	6227	6717	7828	8320	9525	10306	9427	8707	8723	7810	7301
1974	5931	6428	7517	8025	9328	9628	9511	9417	9310	8303	7321	6304
1975	6726	6513	7120	8225	8516	9330	9501	9507	8706	8706	7505	6904
1976	6629	6878	7325	7912	8518	9427	9810	9176	9255	8210	7108	6566
1977	6020	6821	7173	8109	8523	9529	9817	9376	9358	8376	7505	6711
1978	5506	6623	7781	8207	8715	9574	9825	9467	9456	8601	7808	5754
1979	5421	7114	6766	7873	8127	9526	9666	9906	9308	8607	6517	6618
1980	6113	7027	6815	8171	8377	9823	9729	10006	9319	8259	7657	7527
1981	6923	7119	7126	8426	8102	9673	10021	9804	9402	8102	7467	7106
1982	7326	7172	6878	8011	8427	9379	9973	9301	9404	8007	7206	6917
1983	5813	6218	6802	7625	8326	9321	9669	9316	9502	7877	7407	5208
1984	5805	6401	7014	7517	9023	9429	9771	9029	9160	7611	7602	6807
1985	6017	6270	7425	8416	8579	9808	9857	9781	8702	7906	7204	6021
1986	6819	7425	7930	7822	8721	9928	9804	9818	8614	7417	7021	5805

DENVER WSFO AP 52220 Latitude,Longitude,Elevation = 3945 10452 5280

Lowest Temp and Date (packed TTTDD, eg. -20 degrees on the 27th = -2027)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	-2027	-811	-1005	2508	3106	4323	5230	5227	4229	1917	1127	-125
1949	-1929	-601	1031	2401	3306	4301	5221	5218	4113	2630	2221	-112
1950	-1404	201	-512	2204	2805	3704	5023	4729	4028	3004	-810	-606
1951	-2471	-2501	1212	1512	3301	3002	4801	5115	3221	2131	-602	-1020
1952	522	725	-322	2304	3418	4928	4307	5031	4002	2415	-725	425
1953	215	-221	1503	818	2312	4005	5608	5020	4021	3126	1020	122
1954	120	1628	-503	2503	2202	3403	5623	5308	3729	2127	1130	-428
1955	509	-520	-426	2305	3417	3904	5301	4930	3820	2523	-416	204
1956	331	-502	12	2107	3413	5007	5404	4431	4106	2730	1020	508
1957	-529	1801	1506	907	2917	4117	5705	5318	3522	2226	1221	1031
1958	-121	312	917	2524	4001	4225	5006	5231	3330	2831	-528	914
1959	-1304	405	1421	712	3407	4501	4801	5431	2930	2131	14	705
1960	-719	-1128	-803	2230	3201	4613	5104	4417	3624	2430	729	-706
1961	-327	905	406	2115	3213	4016	4812	5322	2930	2225	-219	-1610
1962	-2410	-1828	-401	1501	3301	4109	5015	4331	3109	2625	1519	-825
1963	-2512	12	-313	2723	3521	4517	5229	4930	4028	2527	1530	-1111
1964	-512	-326	404	2105	2704	4323	5113	4123	3327	1919	1928	-817
1965	503	-516	-324	2514	2909	4302	5202	4631	3017	2931	1726	16
1966	-1321	-615	703	1320	2712	4106	5503	5025	3730	2215	1009	328
1967	17	915	408	2422	2601	4202	5103	4831	3613	2227	822	-1231
1968	-1003	514	903	1304	2808	4030	4702	4230	3616	2527	1029	-1222
1969	-524	1203	-208	2728	3708	3613	5405	5426	4225	313	1218	29
1970	-1006	1005	819	1704	2601	3701	5328	5116	3326	2015	1023	425
1971	-1606	-207	-207	2106	3219	4305	4330	5007	2019	1330	1218	-609
1972	-1604	-203	1129	2404	2602	4826	4305	4525	3627	1531	29	-1810
1973	-709	708	1904	508	3102	3920	4815	5201	3527	3011	1404	-731
1974	-1705	208	524	2004	3311	3708	5004	4521	3328	2831	530	424
1975	-912	-1106	428	-202	3101	3811	5413	4425	3128	2125	120	118
1976	-403	106	-205	2503	3567	3719	5503	4977	3628	1919	-378	581
1977	-409	1626	1701	2503	3821	5012	5111	4928	4018	2511	320	59
1978	1	717	-354	2710	2307	4101	5023	4415	3221	2823	827	-1008
1979	-1101	-301	1353	1452	2910	4210	5157	4820	4115	2331	428	112
1980	-430	-508	101	2362	3963	4702	5427	4921	3923	2574	1477	1108
1981	1331	-1211	1508	2805	3610	4466	5327	5317	4527	2025	1176	623
1982	-307	-1505	1707	2021	3206	4109	5010	5475	3980	2769	1124	-780
1983	102	1106	1321	706	2818	3806	4904	5628	2871	2825	-730	-2121
1984	-1918	978	1005	2304	3458	4110	5501	5330	2928	2117	1227	414
1985	-1531	-1405	204	2658	3513	4327	5102	4924	1729	2701	-130	-662
1986	1208	-510	2319	1604	3410	4511	5421	5328	3227	2412	710	-910

DENVER WSFO AP 52220 Latitude,Longitude,Elevation = 3945 [illegible] 5280

Number of days with temperature >= 90 and <= 32 (first two digits for >= 90 la[illegible] for <=32)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	[illegible]	Nov	Dec
1948	10	8	7	0	0	200	1400	1400	600	[illegible]	[illegible]	5
1949	20	5	3	0	0	300	1000	600	100	0	0	[illegible]
1950	M07	M01	M02	M M	M M	5 M	3 M	2 M	2 M	[illegible]	M01	M02
1951	7	2	3	0	200	100	1800	600	100	1	[illegible]	8
1952	3	2	4	0	0	1500	1500	1100	500	0	[illegible]	[illegible]
1953	2	7	1	1	0	1200	1200	500	200	[illegible]		[illegible]
1954	4	1	4	0	100	1100	1900	1200	0	[illegible]		
1955	8	11	6	0	0	200	2000	1000	500			[illegible]
1956	4	9	4	0	0	1000	1000	600	500	0	[illegible]	
1957	13	0	1	2	0	300	1200	900	0	[illegible]	[illegible]	[illegible]
1958	2	2	9	0	0	600	600	1400	400	[illegible]	[illegible]	[illegible]
1959	8	5	1	3	0	1200	1100	900	500			[illegible]
1960	12	10	4	0	0	800	1400	2200	600	[illegible]	[illegible]	[illegible]
1961	5	2	4	1	100	700	1400	900	0		[illegible]	[illegible]
1962	11	10	2	0	100	200	1500	2100	500	[illegible]	2	3
1963	14	2	4	0	0	800	2500	100	300	[illegible]	[illegible]	[illegible]
1964	4	10	6	1	200	500	2700	1100	500	[illegible]	[illegible]	2
1965	0	8	10	0	0	0	1400	800	0	[illegible]	[illegible]	[illegible]
1966	6	4	2	1	0	400	2200	1000	100	0	0	[illegible]
1967	3	1	2	0	0	0	200	200	0	0	1	[illegible]
1968	4	3	1	0	0	1000	900	500	0	0	2	[illegible]
1969	3	1	11	0	0	200	1700	1500	0	2	[illegible]	5
1970	8	0	7	1	0	300	900	1800	200	0	1	[illegible]
1971	7	7	4	0	0	1100	1300	1100	300	2	1	2
1972	6	3	1	0	0	0	1500	1000	0	2	5	[illegible]
1973	11	2	0	1	0	900	1000	1400	0	0	[illegible]	4
1974	9	2	2	0	200	1100	2200	800	300	0	1	2
1975	3	6	3	1	0	500	1100	800	0	0	3	3
1976	4	3	4	0	0	600	1600	400	300	0	3	0
1977	6	1	1	0	0	1000	1400	400	500	0	2	2
1978	9	7	1	0	0	1100	2200	1200	700	0	5	9
1979	18	4	0	1	0	400	1800	900	300	[illegible]	[illegible]	3
1980	10	5	0	0	0	1400	1900	1100	500	0	3	1
1981	1	3	1	0	0	1000	1900	1200	200	0	0	[illegible]
1982	7	7	1	0	0	200	1200	600	100	0	1	[illegible]
1983	6	4	6	4	0	300	1000	700	400	0	[illegible]	[illegible]
1984	8	4	1	1	100	200	1400	100	300	[illegible]	[illegible]	[illegible]
1985	10	7	1	0	0	800	1200	1500	1	[illegible]	[illegible]	
1986	0	6	0	0	0	900	1400	800	0	1	[illegible]	[illegible]

* M indicates missing observation

DENVER WSFO AP 52220 Latitude,Longitude,Elevation = 3945 10452 5280

Number of days with temperature <= 32 and <= 0 (first two digits for <= 90 last two for <=0)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	3007	2805	2705	1300	200	0	0	0	0	1000	2600	3001
1949	3111	2804	2700	1000	0	0	0	0	0	1000	1400	3002
1950	2803	21 M	2402	17 M	6 M	M M	M M	M M	M M	1 M	1902	2802
1951	2804	2603	2800	1500	0	100	0	0	100	1100	2302	2904
1952	2700	2900	2901	1000	0	0	0	0	0	900	2504	3100
1953	2100	2602	2400	1800	600	0	0	0	0	200	2000	3000
1954	2600	2100	2701	700	300	0	0	0	0	1000	1700	3001
1955	3100	2703	2602	1000	0	0	0	0	0	500	2401	2600
1956	2900	2903	1901	1600	0	0	0	0	0	500	2700	2700
1957	3102	2200	2500	1400	300	0	0	0	0	600	2600	2800
1958	3101	2200	2500	1400	0	0	0	0	0	500	2402	2900
1959	3106	2800	2800	1300	0	0	0	0	200	1100	2301	2900
1960	3104	2807	1803	900	100	0	0	0	0	400	2500	3104
1961	3001	2600	2400	1700	100	0	0	0	200	1000	2701	3105
1962	3113	2204	2901	1100	0	0	0	0	200	800	2500	3101
1963	3112	2301	2401	1200	0	0	0	0	0	200	2900	3105
1964	3102	2702	3000	1200	300	0	0	0	0	1000	2400	2703
1965	3000	2605	2904	400	100	0	0	0	300	200	2400	3002
1966	3004	2804	2300	2000	400	0	0	0	0	800	2400	3100
1967	2801	2800	2400	1900	700	0	0	0	0	1000	2500	3105
1968	3004	2900	2700	2300	400	0	0	0	0	1000	2700	3005
1969	3101	2800	2802	300	0	0	0	0	0	1800	2600	3101
1970	2904	2700	3000	2000	300	0	0	0	0	1800	2600	3100
1971	2904	2802	2801	1200	100	0	0	0	300	1300	2500	3103
1972	2806	2602	2300	1200	300	0	0	0	0	500	3001	2811
1973	2708	2800	2800	1300	200	0	0	0	0	500	2500	3002
1974	3011	2800	2200	1100	0	0	0	0	0	200	2700	3100
1975	3102	2702	2700	1901	100	0	0	0	200	900	2200	2400
1976	3003	2600	2902	500	0	0	0	0	0	1500	2102	3100
1977	3102	2500	2600	500	0	0	0	0	0	500	2000	2202
1978	3101	2800	1502	600	200	0	0	0	100	800	2400	3104
1979	3111	2602	2300	700	400	0	0	0	0	300	2900	2800
1980	2806	2302	2600	1000	0	0	0	0	0	900	1900	2400
1981	3000	2403	1800	200	0	0	0	0	0	300	1300	2500
1982	3001	2406	2500	1300	100	0	0	0	0	900	2900	3004
1983	3000	2600	2500	1600	500	0	0	0	300	700	2101	3111
1984	3105	2900	2900	2100	0	0	0	0	400	1800	2800	2700
1985	3105	2707	2400	600	0	0	0	0	500	1000	2701	3104
1986	2600	2001	1600	900	0	0	0	0	100	400	2500	3102

DENVER WSFO AP 52220 Latitude,Longitude,Elevation = 3945. [illegible]

Total Precipitation in 1/100 inches (eg. 1.44 inches = 144)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	[illegible]	[illegible]	[illegible]	[illegible]
1948	144	44	171	252	184	194	80	41	45	[illegible]	[illegible]	[illegible]	[illegible]
1949	117	3	229	146	331	427	135	92	28	[illegible]		[illegible]	[illegible]
1950	47	20	31	298	280	332	56	27	158	[illegible]	[illegible]	[illegible]	[illegible]
1951	83	78	147	201	178	227	83	447	97	[illegible]	[illegible]	[illegible]	[illegible]
1952	1	68	212	275	306	12	106	141	54	18	[illegible]	[illegible]	13.33
1953	39	139	115	129	266	146	198	125	20	[illegible]	[illegible]	[illegible]	[illegible]
1954	23	4	49	88	60	66	199	51	77	[illegible]			
1955	23	85	114	48	247	139	299	241	272	[illegible]			
1956	39	77	89	72	236	44	417	183	1	[illegible]	[illegible]	[illegible]	[illegible]
1957	32	73	109	413	731	109	129	203	42	[illegible]	19	6	[illegible]
1958	73	100	148	173	446	147	350	117	151	[illegible]	[illegible]	[illegible]	[illegible]
1959	124	131	295	135	333	44	83	25	182	[illegible]		[illegible]	[illegible]
1960	77	166	89	256	227	63	131	6	38	[illegible]	[illegible]	[illegible]	[illegible]
1961	7	66	251	106	412	111	160	121	467		[illegible]		[illegible]
1962	133	105	52	110	84	152	54	46	19	[illegible]	[illegible]	[illegible]	[illegible]
1963	71	21	142	3	68	359	55	252	125	[illegible]			[illegible]
1964	26	104	138	125	253	82	72	27	41	[illegible]	[illegible]	[illegible]	[illegible]
1965	100	127	120	105	182	414	641	106	258		[illegible]		[illegible]
1966	30	128	32	146	34	141	104	206	115	[illegible]	[illegible]	[illegible]	[illegible]
1967	84	39	79	395	477	469	325	83	60	12	101	[illegible]	[illegible]
1968	51	74	85	239	71	50	134	253	59	[illegible]	[illegible]	[illegible]	[illegible]
1969	17	43	110	133	612	299	181	79	167	[illegible]	62	[illegible]	[illegible]
1970	10	1	134	97	64	383	167	54	247	88	119	[illegible]	[illegible]
1971	35	78	53	198	134	23	120	85	285	44	16	25	[illegible]
1972	36	44	50	352	49	294	63	271	207	82	169	70	[illegible]
1973	131	16	176	373	506	20	247	128	285	47	83	264	22.96
1974	103	82	132	228	6	201	234	16	98	[illegible]	106	29	[illegible]
1975	23	37	119	114	280	211	278	200	24	30	168	47	15.51
1976	19	54	134	127	134	63	231	250	188	93	32	16	[illegible]
1977	16	27	124	213	34	102	298	100	10	48	59	[illegible]	[illegible]
1978	27	27	107	182	346	117	54	26	7	[illegible]	30	52	[illegible]
1979	34	42	125	141	353	239	81	585	36	[illegible]	[illegible]	[illegible]	[illegible]
1980	64	45	115	254	273	9	293	165	63	[illegible]	[illegible]	[illegible]	[illegible]
1981	29	35	227	101	376	63	90	116	35	[illegible]	42	65	[illegible]
1982	32	9	18	34	348	226	92	116	138	151	47	234	11.45
1983	15	7	456	210	362	265	175	151	13	39	[illegible]	[illegible]	[illegible]
1984	18	81	119	242	65	126	211	320	47	[illegible]	[illegible]	46	[illegible]
1985	68	59	69	261	133	146	371	28	233	[illegible]	[illegible]	[illegible]	[illegible]
1986	22	65	43	259	130	107	169	53	43	[illegible]	[illegible]	[illegible]	[illegible]

DENVER WSFO AP 52220 Latitude,Longitude,Elevation = 3945 10452 5280

Total Snowfall in 1/10 inches (eg. 23.7 inches =237)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1948	237	73	220	55	MISS	0	0	0	0	8	67	48	------
1949	205	4	142	127	MISS	0	0	MISS	0	72	0	60	------
1950	88	29	54	90	137	MISS	0	0	0	MISS	119	59	------
1951	157	105	176	129	MISS	8	MISS	13	42	81	145	112	------
1952	3	102	252	112	MISS	MISS	0	0	0	12	145	31	------
1953	74	165	118	120	17	5	0	0	0	1	72	144	71.6
1954	27	6	63	76	26	MISS	MISS	0	0	4	39	86	------
1955	35	122	195	49	MISS	MISS	MISS	0	3	41	73	29	------
1956	63	105	130	37	MISS	0	0	0	0	6	213	63	------
1957	53	16	89	255	88	0	0	0	MISS	39	30	8	------
1958	89	120	144	141	0	0	0	0	MISS	26	97	77	------
1959	174	175	268	176	MISS	0	0	0	129	118	53	27	------
1960	107	183	90	93	MISS	0	0	0	0	46	51	178	------
1961	10	79	292	86	64	0	0	0	58	62	114	38	80.3
1962	172	113	68	100	0	0	0	0	7	0	50	12	52.2
1963	91	21	180	2	0	0	0	0	0	11	35	59	39.9
1964	26	127	184	121	10	0	0	0	0	MISS	60	44	------
1965	132	171	149	3	MISS	0	0	0	55	0	55	56	------
1966	36	146	28	64	29	0	0	0	MISS	83	30	19	------
1967	99	44	66	36	30	0	0	0	0	17	94	131	51.7
1968	30	73	92	151	MISS	0	0	0	0	4	58	69	------
1969	28	42	132	MISS	0	0	0	0	0	312	51	31	------
1970	9	3	205	47	MISS	0	0	0	46	59	92	9	------
1971	86	119	96	60	MISS	0	0	0	172	31	14	84	------
1972	109	91	71	172	0	0	0	0	0	97	194	98	83.2
1973	121	30	151	248	10	0	0	0	0	23	93	308	98.4
1974	82	103	128	178	0	MISS	0	0	18	10	119	21	------
1975	36	40	143	109	61	0	0	0	0	27	152	73	64.1
1976	32	64	187	12	0	0	0	0	0	72	45	31	44.3
1977	24	31	96	47	0	0	0	0	0	33	41	7	27.9
1978	55	62	86	46	135	0	0	0	MISS	27	69	142	------
1979	91	58	182	81	82	0	0	0	0	27	223	165	90.9
1980	123	96	121	100	MISS	0	0	0	0	15	71	12	------
1981	41	43	240	29	MISS	0	0	0	0	28	33	99	------
1982	48	18	21	20	MISS	MISS	0	0	0	12	18	271	------
1983	13	8	305	113	76	0	0	0	MISS	MISS	293	115	------
1984	34	79	120	168	MISS	0	0	0	52	131	23	50	------
1985	125	87	76	8	MISS	0	0	0	87	19	170	103	------
1986	24	62	26	140	0	0	0	0	0	43	115	49	45.9

DENVER WSFO AP 52220 Latitude,Longitude,Elevation = 3945 10452 5280

Greatest amount of precipitation in 1/100 inches (eg. 204 = 2.04 inches)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	45	14	70	240	105	59	44	13	40	9	21	20
1949	43	3	58	42	95	100	53	27	14	44	1	31
1950	36	10	16	180	131	206	24	10	56	12	55	17
1951	42	46	37	57	55	60	48	193	67	124	33	29
1952	1	21	75	113	150	7	51	55	40	17	38	9
1953	17	101	93	33	175	46	105	75	10	31	40	23
1954	19	3	30	55	29	18	115	32	16	2	28	38
1955	17	47	32	30	124	43	137	139	131	48	31	8
1956	31	26	37	28	76	18	142	135	1	16	53	21
1957	9	42	67	199	234	54	38	55	26	77	10	6
1958	27	44	36	50	186	48	105	99	89	21	33	25
1959	36	54	139	87	106	14	53	8	96	79	28	16
1960	36	58	33	73	97	25	64	3	18	158	28	57
1961	4	20	70	54	180	56	46	32	117	58	40	16
1962	92	72	16	64	33	61	25	28	8	3	46	10
1963	26	11	47	2	22	131	42	62	60	16	45	23
1964	9	30	42	98	133	30	37	18	20	18	40	12
1965	46	37	24	40	57	223	205	35	97	41	36	19
1966	17	39	18	60	21	55	39	64	39	61	25	10
1967	36	15	36	325	151	195	83	38	43	37	67	41
1968	47	35	37	78	20	26	78	131	26	36	22	25
1969	9	23	40	46	295	166	125	38	130	128	38	15
1970	4	1	25	54	16	316	57	19	90	24	67	9
1971	20	47	36	107	31	9	76	58	117	17	11	11
1972	13	16	32	304	17	77	12	67	122	53	44	22
1973	87	10	57	90	327	8	106	95	144	22	39	123
1974	46	23	40	85	4	179	126	8	31	64	42	9
1975	14	10	36	33	94	55	47	137	8	30	75	29
1976	9	44	47	37	56	21	129	171	39	60	26	7
1977	8	14	107	71	10	24	92	27	8	39	26	2
1978	10	12	49	86	111	38	21	10	4	91	35	35
1979	9	24	29	71	163	102	42	105	24	48	95	42
1980	28	24	35	129	60	8	118	98	29	10	20	7
1981	19	25	55	39	108	13	48	45	15	26	22	33
1982	15	4	11	12	125	65	40	28	43	50	27	200
1983	8	3	268	48	106	137	79	70	12	21	72	17
1984	8	39	56	95	46	34	82	100	35	107	16	29
1985	20	21	34	94	66	77	151	8	76	38	57	28
1986	20	31	16	97	64	38	89	17	13	51	44	11

DENVER WSFO AP 52220 Latitude,Longitude,Elevation = 3945 10452 5280

Greatest Snowdepth in inches

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	14	6	8	4	MISS	0	0	0	0	MISS	2	3
1949	8	3	5	1	0	0	0	0	0	MISS	0	5
1950	5	2	4	4	7	MISS	0	0	0	MISS	9	5
1951	7	7	5	8	MISS	MISS	MISS	1	3	2	6	5
1952	1	4	13	3	MISS	MISS	0	0	0	1	5	4
1953	4	10	6	7	MISS	1	0	0	0	MISS	5	4
1954	2	MISS	4	5	4	MISS	MISS	0	0	MISS	4	8
1955	3	7	7	5	MISS	MISS	MISS	0	MISS	3	3	2
1956	5	5	5	1	0	0	0	0	0	MISS	11	2
1957	2	1	5	16	3	0	0	0	0	3	1	1
1958	7	6	6	2	0	0	0	0	MISS	1	5	3
1959	5	8	12	9	MISS	0	0	0	7	5	4	2
1960	6	6	7	5	MISS	0	0	0	0	1	3	9
1961	1	2	9	3	1	0	0	0	1	6	5	3
1962	12	7	4	2	0	0	0	0	MISS	0	2	1
1963	3	1	9	MISS	0	0	0	0	0	0	3	2
1964	1	5	6	10	1	0	0	0	0	MISS	5	1
1965	4	7	4	0	0	0	0	0	1	0	6	3
1966	1	7	1	4	2	0	0	0	0	3	3	1
1967	4	1	3	3	MISS	0	0	0	0	2	5	4
1968	4	5	4	3	0	0	0	0	0	0	2	4
1969	2	2	5	MISS	0	0	0	0	0	11	2	2
1970	2	MISS	5	4	0	0	0	0	3	1	4	1
1971	8	8	7	2	MISS	0	0	0	10	2	1	3
1972	6	5	4	12	0	0	0	0	0	2	13	5
1973	7	2	3	9	2	0	0	0	0	1	4	13
1974	9	5	6	5	0	0	0	0	1	1	3	1
1975	2	1	5	8	1	0	0	0	0	3	5	2
1976	4	5	5	MISS	0	0	0	0	0	5	3	1
1977	1	2	8	2	0	0	0	0	0	0	3	MISS
1978	2	2	4	3	7	0	0	0	0	MISS	5	6
1979	4	2	4	3	2	0	0	0	0	MISS	17	9
1980	5	6	6	4	0	0	0	0	0	1	3	1
1981	1	2	7	MISS	0	0	0	0	0	2	2	7
1982	3	1	1	MISS	MISS	0	0	0	0	1	1	24
1983	13	2	12	5	2	0	0	0	MISS	MISS	16	10
1984	3	4	6	11	MISS	0	0	0	3	9	2	3
1985	5	4	2	MISS	MISS	0	0	0	8	1	6	6
1986	2	2	2	10	0	0	0	0	0	1	3	5

DENVER WSFO AP 52220 Latitude,Longitude,Elevation = 3945 10452 5280

Date of Greatest Amount of Precipitation and Greatest Snowpack (1st 2 digits = precip., 2end 2 = sno

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	2426	2901	2121	2424	3111	2200	2800	2100	1900	1616	708	2374
1949	204	1299	2830	910	600	300	500	2400	300	1969	1100	1111
1950	2425	1212	1262	1529	2526	1616	2899	1199	899	101	809	505
1951	2929	1213	2828	910	920	951	505	331	2121	571	551	1363
1952	151	2803	2171	2171	2321	427	799	2199	1399	1414	1767	3101
1953	1464	1969	3080	1161	1651	505	999	2299	299	2123	369	1055
1954	959	2676	151	2930	2351	2625	1464	1399	2499	7575	1330	2677
1955	551	1819	1525	1112	1866	466	2762	2799	1918	2323	757	352
1956	2929	708	615	2358	2399	3099	3199	299	599	2974	1969	1458
1957	5976	2777	303	252	916	1599	2699	699	1399	774	1565	707
1958	1820	2812	901	2579	899	1499	1899	2199	1580	2929	1678	1263
1959	2979	2405	2526	859	2172	2099	2599	699	2929	2980	2526	455
1960	1469	2279	1453	2929	569	899	399	1699	999	1865	859	406
1961	2677	2677	1828	2475	1364	1999	8099	3099	1903	2929	1269	863
1962	860	1768	3001	2901	1699	799	2399	2399	809	1999	1566	2476
1963	455	1075	355	2222	3099	1699	999	699	2099	3199	1617	2173
1964	6163	2576	203	304	2908	199	1199	2799	1599	1030	1415	2576
1965	3181	1466	1725	2699	2699	499	2599	1799	2021	1899	2626	1366
1966	3172	1213	2173	1170	1212	899	2199	1899	6599	1465	809	679
1967	2515	1970	758	1314	3064	2099	799	899	2699	1429	203	2681
1968	2201	1265	1011	1768	1899	2499	2499	999	2299	899	1479	2174
1969	2324	1717	153	1517	799	899	1999	2999	999	313	153	2481
1970	558	102	2411	1101	8199	1199	899	1999	2125	1076	1213	1011
1971	255	2021	506	2204	1019	799	2599	1899	1718	1730	1769	708
1972	1204	7510	2879	2627	799	499	2099	2399	799	3131	102	561
1973	2021	1819	1869	708	601	5499	2499	799	2899	1111	1920	2326
1974	2162	6818	1819	1364	299	899	2199	999	212	1214	364	675
1975	2172	1469	3127	1802	2929	799	599	1399	1099	2324	870	3168
1976	1802	2021	2806	3028	2199	199	2599	199	2699	2627	2627	1031
1977	2223	1315	1011	1503	2099	1899	2099	1699	1199	3199	601	810
1978	1525	1213	2204	910	107	199	2999	399	1999	2223	2527	506
1979	1280	2758	209	1062	260	799	2599	1999	1399	2181	2021	2228
1980	1870	759	2729	2402	1599	2099	999	1499	999	2728	7425	708
1981	3167	2071	2805	2008	1799	6499	2699	1699	2399	1525	2577	2122
1982	1164	155	405	480	1281	6899	199	1199	1399	819	1123	2476
1983	3101	154	506	2205	1718	2699	2199	599	480	281	2628	2301
1984	1365	1427	2223	2021	681	199	3099	1299	2828	416	2577	1366
1985	2930	2255	2980	2580	1281	2599	1999	5499	2829	3114	910	961
1986	608	2021	1720	304	1699	1099	1799	2299	799	3111	3007	710

DENVER WSFO AP 52220 Latitude,Longitude,Elevation = 3945 10452 5280

Number of day with prec. >= .1,.5,1.0 (two digits for each field)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	90100	90000	90300	20101	120201	110200	60200	80000	20100	50000	70000	40000
1949	80200	10000	120400	120200	130400	170501	150100	120100	20000	70200	10000	20100
1950	79999	59999	39999	89901	109901	69901	89999	59999	89999	19999	59999	39999
1951	90000	40000	100000	150100	110100	150100	90000	90302	40100	60101	60000	70000
1952	10000	90000	100200	110201	110201	40000	80100	100100	40000	20000	90000	50000
1953	30000	60101	70100	130000	130101	90000	70101	70100	30000	60000	40000	80000
1954	10000	0	10000	20100	20000	30000	30101	10000	40000	0	30000	20000
1955	10000	20000	40000	20000	60201	60000	50201	30201	50201	20000	20000	0
1956	10000	40000	30000	30000	50100	20000	40303	30101	0	20000	40100	30000
1957	0	20000	30100	90201	90502	40100	50000	50100	10000	60200	10000	0
1958	20000	20000	60000	40100	70301	50000	80301	20100	40100	10000	30000	20000
1959	50000	30100	60101	20100	80201	20000	20100	0	40100	60200	10000	20000
1960	30000	40100	40000	50300	40200	20000	30100	0	10000	30201	20000	40100
1961	0	30000	60100	30100	70202	20100	30000	50000	80402	10100	20000	10000
1962	30100	30100	30000	20100	20000	40100	20000	10000	0	0	20000	10000
1963	20000	10000	40000	0	30000	50301	10000	90100	30100	20000	10000	20000
1964	0	50000	50000	10100	40101	40000	30000	10000	20000	10000	20000	10000
1965	40000	50000	40000	30000	50200	50201	110402	40000	50200	10000	10000	30000
1966	10000	50000	10000	40100	10000	50100	30000	50100	30000	30100	10000	10000
1967	30000	10000	30000	40101	70302	100101	60200	30000	20000	40000	20100	30000
1968	10000	20000	40000	50200	30000	30000	30100	60101	20000	20000	40000	20000
1969	0	20000	30000	30000	70401	50101	30101	30000	30101	90301	10000	10000
1970	0	0	60000	30100	30000	40101	60100	20000	50200	40000	30100	0
1971	10000	30000	20000	50101	40000	0	20100	20100	60101	30000	10000	10000
1972	20000	20000	20000	20101	20000	70200	20000	80200	30101	10100	50000	30000
1973	20100	10000	50100	70300	50201	0	50201	20100	40201	10000	40000	50201
1974	30000	30000	60000	60200	0	20101	50101	0	40000	50100	30000	0
1975	10000	10000	40000	50000	60200	50100	80000	40101	0	10000	40200	10000
1976	0	10000	40000	40000	40100	30000	40101	30101	70000	20100	10000	0
1977	0	10000	20101	50100	10000	50000	60300	30000	0	10000	30000	0
1978	10000	10000	40000	40100	70201	40000	30000	10000	0	30100	10000	30000
1979	0	10000	50000	40100	80101	30201	30000	80701	10000	40000	40100	30000
1980	20000	10000	30000	60201	60400	0	50201	30100	30000	10000	20000	0
1981	20000	10000	80100	40000	70301	40000	20000	30000	10000	30000	20000	20000
1982	10000	0	10000	10000	110101	60200	30000	40000	40000	50100	10000	30101
1983	0	0	90201	70000	100201	50201	50100	40100	10000	20000	50300	20000
1984	0	40000	30100	70100	20000	40000	50100	60201	10000	70401	10000	10000
1985	20000	20000	30000	60200	40100	40100	70301	0	40200	30000	40100	30000
1986	10000	20000	20000	70200	30100	40000	40100	20000	20000	60100	40000	20000

DENVER WSFO AP 52220 Latitude,Longitude,Elevation = 3945 10452 5280

Number of days with snow or hail (1st two digits for hail days, 2end two for snow)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1949	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1950	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1951	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1952	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1953	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1954	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1955	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1956	MISS	MISS	MISS	MISS	MISS	1 M	1 M	MISS	MISS	MISS	MISS	MISS
1957	MISS	MISS	MISS	MISS	3 M	1 M	MISS	MISS	MISS	2 M	MISS	MISS
1958	MISS	MISS	1 M	MISS	1 M	1 M	2 M	MISS	MISS	MISS	MISS	MISS
1959	MISS	MISS	MISS	MISS	MISS	MISS	1 M	MISS	MISS	MISS	MISS	MISS
1960	MISS	MISS	MISS	1 M	3 M	1 M	MISS	MISS	MISS	MISS	MISS	MISS
1961	MISS	MISS	MISS	MISS	1 M	MISS	MISS	1 M	1 M	MISS	MISS	MISS
1962	MISS	MISS	MISS	MISS	2 M	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1963	14	3	10	0	100	0	0	0	0	0	3	8
1964	3	12	10	3	100	200	0	100	0	0	7	2
1965	3	17	12	100	200	100	500	0	1	0	2	9
1966	3	14	3	102	1	0	100	300	0	2	3	3
1967	8	3	4	1	300	400	100	0	0	1	7	13
1968	14	6	4	3	0	100	0	100	100	0	7	11
1969	2	2	13	100	100	100	100	0	100	13	5	7
1970	10	0	11	4	100	0	0	0	1	2	6	1
1971	14	12	8	1	300	0	100	0	4	2	2	3
1972	10	4	3	204	200	100	200	200	100	2	17	20
1973	24	5	8	7	2	0	300	200	100	1	10	19
1974	30	8	6	6	0	0	100	0	1	101	6	3
1975	3	7	5	6	1	100	0	0	0	1	17	5
1976	8	5	11	100	100	0	0	200	100	3	4	3
1977	4	2	3	2	300	100	0	0	0	0	5	0
1978	5	7	3	2	203	100	0	0	0	0	105	17
1979	15	9	7	5	102	0	200	300	0	0	14	16
1980	25	9	7	4	100	0	300	100	0	1	11	1
1981	2	8	11	100	200	0	0	100	0	1	4	11
1982	M14	M02	M01	M00	M00	M00	M00	M00	M00	M01	M01	M11
1983	M31	M09	M16	M05	M01	M00	M00	M00	M00	M00	M11	M31
1984	M27	M08	M03	M04	M00	M00	M00	M00	M01	M06	M03	M10
1985	M14	M15	M04	M00	M00	M00	M00	M00	M02	M01	M17	M16
1986	M03	M08	M01	M04	M00	M00	M00	M00	M00	M01	M04	M14

APPENDIX E
COMMENTS AND REPONSES TO THE
AIR REMEDIAL INVESTICATION, DRAFT FINAL
REPORT, MAY 1988

The Task 18 Air Remedial Investigation, Draft Final Report was distributed on May 5, 1988 to all Organizations and the State (OAS). Following a review period of 45 days, comments were received from Shell Oil Company on June 15, 1988; from the Colorado Department of Health on June 17, 1988; and from the U.S. Environmental Protection Agency on June 20, 1988. All written comments and formal responses are in the following appendix.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

JUN 20 1988

Ref: 8HWM-SR

Colonel W. N. Quintrell,
Program Manager
Office of the Program Manager for
Rocky Mountain Arsenal
ATTN: AMXRM-PM
Building E4460
Aberdeen Proving Ground, Maryland 21010-5401

Re: Rocky Mountain Arsenal (RMA),
Air Remedial Investigation
Draft Final Report, Volumes I
and II, May 1988

Dear Colonel Quintrell:

We have reviewed the above referenced report and find it satisfactory. Additional graphs would aid the understanding of the effect of meteorology on the sampling results; EPA staff could offer some specific ideas.

The report indicates that information from other RMA projects may provide cause to reopen the current report. At such time, and during the Feasibility Study, consideration should also be given to new Denver air quality information which is being obtained from special studies by EPA and the State. Please call Mr. Connally Mears at (303) 293-1528, if there are questions on these comments.

Sincerely yours,

Robert L. Duprey, Director
Hazardous Waste Management Division

cc: Thomas P. Looby, CDH
David Shelton, CDH
Lt. Col. Scott P. Isaacson
Chris Hahn, Shell Oil Company
R. D. Lundahl, Shell Oil Company
Thomas Bick, Department of Justice
David Anderson, Department of Justice
Mike Witt, ESE

RESPONSES TO U.S. ENVIRONMENTAL PROTECTION AGENCY COMMENTS ON THE TASK 18 AIR REMEDIAL INVESTIGATION DRAFT FINAL REPORT MAY 1988

Comment 1: Additional graphs would aid the understanding of the effect of meteorology on the sampling results: EPA staff could offer some specific ideas.

Response: The Army contacted Mr. Gordon MacRae of the EPA concerning these specific ideas. Mr. MacRae's suggestions were as follows:

1. Include a table summarizing high-event sampling days comparing trigger parameters for VOC, SVOC, and metals sampling with the actual conditions found during the sampling;
2. Include a table which listed all site locations, the compounds detected at that station, the maximum concentration of the compounds detected, and the date of the maximum concentration; and
3. Include a table which summarizes weather conditions detected during high-event sampling conditions.

The Army will attempt to include the information requested by the EPA in the final report depending upon how extensive the data compilation will be.

Comment 2: The report indicates that the information from other RMA projects may provide cause to reopen the current report. At such time, and during the Feasibility Study, consideration should also be given to new Denver air quality information which is being obtained from special studies by EPA and the State.

Response: The Army will consider the air quality information from the EPA and the state.

Shell Oil Company

One Shell Plaza
P.O. Box 4320
Houston, Texas 77210

June 15, 1988

Office of the Program Manager
for Rocky Mountain Arsenal
ATTN: AMXRM-PM: Mr. Donald L. Campbell
Building E-4460
Aberdeen Proving Ground, Maryland 21010-5401

Dear Mr. Campbell:

Enclosed herewith are Shell Oil's comments on Air Remedial Investigation Final Draft Report, Task No. 18, May 1988.

Sincerely,

R. D. Lundahl
Manager Technical
Denver Site Project

RDL:ajg

Enclosure

cc: (w/enclosure)
Office of the Program Manager for Rocky Mountain Arsenal
ATTN: AMXRM-RP: Mr. Kevin T. Blose
Commerce City, Colorado 80022-2180

Office of the Program Manager for Rocky Mountain Arsenal
ATTN: AMXRM-TO: Mr. Brian L. Anderson
Commerce City, Colorado 80022-2180

cc: Mr. David L. Anderson
c/o Acumenics, Inc.
Suite 700
624 Ninth Street, N.W.
Washington, D.C. 20001

Department of the Army
Environmental Litigation Branch
Pentagon, Room 2D444
ATTN: DAJA-LTE: Lt. Col. Scott Isaacson
Washington, DC 20310-2210

Patricia Bohm, Esq.
Office of Attorney General
CERCLA Litigation Section
One Civic Center
1560 Broadway, Suite 250
Denver, CO 80202

Mr. Jeff Edson
Hazardous Materials and Waste Management Division
Colorado Department of Health
4210 East 11th Avenue
Denver, CO 80020

Mr. Robert L. Duprey
Director, Hazardous Waste Management Division
U.S. Environmental Protection Agency, Region VIII
One Denver Place
999 18th Street, Suite 500
Denver, CO 80202-2405

Mr. Connally Mears
Air and Waste Management Division
U.S. Environmental Protection Agency, Region VIII
One Denver Place
999 18th Street, Suite 500
Denver, CO 80202-2405

Mr. Thomas P. Looby
Assistant Director
Colorado Department of Health
4210 East 11th Avenue
Denver, CO 80220

RESPONSES TO SHELL OIL COMPANY
COMMENTS ON THE TASK 18 AIR REMEDIAL
INVESTIGATION, DRAFT FINAL REPORT
MAY 1988

Comment 1: Page 1-1, Last Paragraph	The sentence which reads "Hyman assumed the CF&I lease in 1950." should be deleted. While the Army has contended that Hyman assumed the CF&I lease, that assumption has not been substantiated nor has Shell agreed to its veracity.
Response:	The sentence in the text will be revised to read: "In 1949, the Colorado Fuel and Iron Corporation lease was terminated, and the property which had been under lease to Colorado Fuel and Iron Corporation was leased to Julius Hyman and Company."
Comment 2: Page 1-3, first full paragraph	In discussions in the summer of 1988, it was suggested that high wind events be monitored for asbestos downwind of Basin F and other potential sources such as Basin A, North Plants and South Plants. Has this been accomplished?
Response:	The Army does not recall discussions in the summer of 1988, pertaining to air monitoring for asbestos downwind of Basin F or other potential sources. However, the Army does recall discussions on this matter in the summer of 1987 during meetings in Breckenridge, Colorado. During Task 18 monitoring, the Army did monitor for asbestos up and downwind of the prevailing wind direction of South Plants, and downwind of North Plants every 12th day from June 1986 through June 1987. Specific downwind asbestos monitoring of Basin F, Basin A, South Plants, and North Plants was not accomplished

during high wind events during Task 18. However, monitoring for asbestos downwind during high wind events will be accomplished during the summer of 1988 at Basin F.

Comment 3:
Page 1-12, last paragraph

Why is mercury analyzed by a vapor technique but not by a particulate technique?

Response:

Analysis for mercury associated with particulate was not routinely done nor certified due to the relatively high vapor pressure of mercury. The Army did not believe mercury associated with particulate would be detectable and opted to collect and analyze for vapor, the state in which mercury would be more commonly found.

Comment 4:
Page 2-3, Table 2.1-1

The nitrogen oxide values are 24 hour maximums, not annual arithmetic means.

The text at page 2-7 (second paragraph of 2.1.5) states that the maximum sulfur dioxide level was 0.32 ppm, not 0.10 ppm.

Data whose source is USAEHA, 1969 should be footnoted on this table.

Response:

The National Ambient Air Quality Standard (NAAQS) for nitrogen oxide (NO_x) is an annual arithmetic mean. In Table 2.1-1, page 2-3, the figures listed for the primary NAAQS, Northeast Denver, and Urban Denver are annual arithmetic means. Only the historical data near RMA for NO_x is a 24-hour maximum and has been noted as such in the report.

The maximum sulfur dioxide (SO_2) level was 0.32 parts per million (ppm) as stated in the text on Page 2-7. Table 2.1-1 has been corrected accordingly. The source of all data in the table has also been noted on the table.

Comment 5: Page 4-7, last full sentence

Shell does not believe that it handled or manufactured di-n-butylamine at the RMA in 1951 or any time. What is the source of the Army's information?

Response:

The attribution of the use of di-n-butylamine at RMA to Shell operations appears unsupported by the historical record. Accordingly, the text will be revised to omit attribution of this chemical to Shell.

Comment 6: Page 4-18, last full paragraph

If, as stated, the SIA data are representative of the RMA area, there should be no need for continued collection of meteorological data on the RMA.

Response:

SIA meteorological data is representative to characterize long term meteorological conditions at RMA. However, the Army believes that continued collection of meteorological data is necessary for real-time information during remedial actions and air quality monitoring.

Comment 7: Page 5-5, Section 5.6

In the first sentence shouldn't since the 1960's be instead since 1969?

The text should note the condition of the dust suppressant cover, when present, during any test period. Operating status of the power house should likewise be noted.

Response: The Army agrees that since the 1960's should be since 1969. This will be changed in the report.

Prior to the Task 18 sampling program, the last application of dust suppressant was accomplished in 1982 in Basin A. This cover was not present during the period when Task 18 sampling took place. This fact will be noted in the report. In addition, the report will note that the powerhouse operated on a daily basis during the year-long Task 18 monitoring program. One or two package boilers burned daily during warm weather months while one permanent boiler burned during cold weather months. All of these boilers burn natural gas.

STATE OF COLORADO

COLORADO DEPARTMENT OF HEALTH

Roy Romer
Governor

Thomas M. Vernon, M.D.
Executive Director

June 17, 1988

Mr. Donald Campbell
Department of the Army
Program Manager's Office
RMA Contamination Cleanup
AMXRM-RE, Building E4585
Aberdeen Proving Ground, MD 21010-5401

Re: State Comments on Task 18, Air Remedial Investigation, Draft Final Report

Dear Mr. Campbell:

Enclosed are the State's comments on Task 18, Air Remedial Investigation Draft Final Report. On a number of occasions Army personnel have indicated verbally that the RMA Air Monitoring Program could be revised in FY 1988-89 if the State provided "technically justifiable recommendations." The enclosed comments respond to the Air Remedial Investigation Draft Final Report only and do not include recommended modifications to enhance that program. We would appreciate receiving a written commitment from the Army that the State's recommendations for modifying the air investigation will be incorporated into the RMA program to the extent those recommendations are technically justified. Upon receipt of a written commitment from the Army, I will request Air Pollution Control Division personnel to prepare an outline of recommended modifications.

If you have any questions regarding the enclosed comments, please contact Jeff Edson with this Division.

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Sincerely yours,

David C. Shelton
Director, Hazardous Materials
and Waste Management Division

DCS/PB/rw

pc: Michael R. Hope, Deputy Attorney General
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RESPONSES TO COLORADO DEPARTMENT OF HEALTH COMMENTS ON THE TASK 18 AIR REMEDIAL INVESTIGATION DRAFT FINAL REPORT MAY 1988

General Comments

Comment 1: The Air Remedial Investigation Report does not include quality assurance information needed for the State to adequately review this Report. The text indicates that the data collection effort included quality assurance checks. However, without reviewing the quality assurance data, the State is unable to draw any conclusions with respect to the adequacy of the air investigations. The Report should include the following data: all audit and calibration sheets for the TSP, PM-10, and meteorological monitors, as well as any documentation concerning lab procedures and quality assurance for organics.

Response: The Army followed all Quality Assurance/Quality Control (QA/QC) procedures as detailed in the Task 18 Technical Plan. As is the case with water and soils QA/QC materials, specific Task 18 QA/QC materials are available in the applicable project files.

Comment 2: The Report is limited by the fact that only three months of meteorological data was collected. The State agrees that until more data is collected Stapleton information should be used for modeling efforts.

Response: No response required.

Comment 3: PM-10 data recovery was below 75 percent -- an unacceptably low recovery rate. Additional PM-10

monitoring is needed to establish background and determine the appropriate ARAR for particulates.

Response: The Army recognizes that below 75 percent recovery is an unacceptable rate. This low recovery rate was due to equipment and power failures. However, while additional PM-10 data is currently being collected at RMA, additional PM-10 data can be estimated using TSP data collected during the Task 18 program.

As suggested by Table 4.1-3 of the report, a correlation exists between TSP and PM-10. This indicates that PM-10 concentrations are approximately 66 percent of TSP concentrations at RMA. Information obtained from the Colorado Department of Health (CDH) Air Pollution Control Division (APCD) also suggests that TSP data in general for Colorado can be used to estimate PM-10 concentrations by applying a conversion factor of 50 percent. The Army recognizes that seasonal and daily variations and location will effect the conversion factor. The EPA has also indicated that the 66 percent figure is comparable to national averages.

Comment 4: The Report should include the calibration method and the flowrate used for the PM-10 monitors. The Report should also indicate whether TSP and PM-10 flows were corrected to STP (Standard Temperature and Pressure).

Response: Please refer to the Task 18 Technical Plan for detailed calibration methods, flowrates, and correction procedures for TSP and PM-10 sampling.

Specific Comments

Comment 1:
P. 4-1

The State is concerned about the locations of sampling stations for VOC-events 2, 3, 4, and 7, and SVOC-events 2 and 6. In all of these cases, the sampling stations were not located in a predominant downwind direction such that the maximum potential emissions would have been sampled. This is especially true in the case of SVOC-event 2 which sampled completely upwind of Basin A emissions.

Response:

Samplers for these events were located dependent upon wind direction at the start of the sampling event. The Army made no attempt to change sampler locations with shifts in wind direction once a sampling event was initiated.

To specifically address SVOC-2, four samplers were started for this event. However, three of the samples were invalid due to timer and power problems during the sampling period. For this reason, only results of the upwind sample were reported.

Comment 2:
P. 4-5

The Report discusses the VOC sampling performed around Basin F. Several compounds including siloxane, methylene chloride and acetone are described as "laboratory contaminants". Steps must be taken to prevent or minimize the effects of these laboratory contaminants on the analyses. Some of the methylene chloride concentrations detected were as high as 3500 ug/M3. The Report should include an explanation of the detection of these compounds. The Report should also include an explanation as to why dioctyladipate was determined to be a laboratory contaminant. Benzene is a common artifact in the analyses of Tenax™ tubes, yet

there is no mention of the detection of benzene in any of the samples -- why?

Response: Siloxane, methylene chloride, and acetone are common laboratory contaminants. The Army agrees that the effects of these contaminants should be minimized and the Army made every attempt to do so. However, it is extremely difficult to completely eliminate these compounds.

Siloxane is a decomposition product from various components of the gas chromatograph. The septa, the silicon phase inside the column, and the liner inside the injection port are made of materials which produce decomposition products: mainly siloxane upon the introduction of air to the instrument. This decomposition is difficult to control.

Methylene chloride and acetone are common solvents used in all laboratories. The Army believes it took successful steps in minimizing the effects of these solvents on sample contamination as shown in the sample results after the detection of 2,500 ug/m^3 of methylene chloride.

Dioctyladipate is not a laboratory contaminant. The report will be changed accordingly.

The Army disagrees that benzene is a common artifact in the analyses of Tenax™ tubes. Army laboratory analysts have found other common artifacts such as low weight aldehydes. However, benzene has not been seen consistently.

Comment 3:
P. 4-7

The Report identifies limonene as a naturally occurring substance from vegetation. Limonene is derived commercially from citrus. The Report should identify what Arsenal vegetation is believed to be the potential source of limonene. Similarly, the Report should identify the source of the background polynuclear aromatic hydrocarbons found during SVOC-event 1.

Response:

The Army fails to locate in the text where it specifically links limonene with vegetation, however, limonene is not only associated with citrus, but also with vegetation found native to Colorado and the RMA including Ponderosa Pine. Two Ponderosa Pines are located inside the fence around Basin F. Both samples detecting limonene were downwind of the pine trees.

Polynuclear aromatic hydrocarbons (PAHs) are nearly ubiquitous in the environment. They originate from combustion, tobacco smoke, vehicle exhaust, petroleum distillates, creosote, and energy generation. Therefore, it would be extremely difficult to identify the source of background PAHs.

Comment 4:
P. 4-19 thru
P. 4-21

The Report should indicate whether the TSP averages are arithmetic or geometric.

Response:

The report will indicate that the TSP averages are geometric.

Comment 5:
P. 5-2

The Report states that the National Ambient Air Quality Standard for TSP may be exceeded off-site during future remedial actions. Due to the fairly high TSP concentrations, the Army should contact the Division far in advance of any future plans which could require

permits. Since the Division must enforce this standard, permits for such remedial actions may be difficult to secure.

Response: CDH apparently misapprehends the law applicable to the future remedial actions referenced in the text. CERCLA Section 121(e), 42 U.S.C. Section 9621(e), expressly provides that: "No Federal, State, or local permit shall be required for the portion of any removal or remedial action conducted entirely onsite, where such remedial action is selected and carried out in compliance with this section." Since all the remedial action referenced in the Report will occur entirely onsite of a CERCLA operable unit and in compliance with CERCLA Section 121, no State air permits are required or will be obtained by the Army for such CERCLA response actions.

Through the RI/FS process, in which CDH is a participant, the Army will keep CDH's Air Pollution Control Division fully informed of all proposals or remedial action decisions that could bear on that Division's area of expertise.

The Army disagrees that these results are fairly high. As compared to data reported by CDH in its Air Quality Data Report, 1986, RMA results are lower than many of the Denver locations for TSP. In Adams City, a site very near the RMA, the annual average for TSP was 83 ug/m^3 with a 24-hour maximum of 339 ug/m^3. At RMA, during conduct of this task, the maximum annual average was 46.9 with a 24-hour maximum of 151.4 ug/m^3.

Comment 6:
P. 5-3

The Asbestos Assessment section contains at least one inaccurate statement. The Report states that "there are no . . . guidelines for acceptable levels of airborne asbestos". The APCD uses 0.01 fibers/cc as a guideline for determining when a building is safe for reoccupancy after an abatement is conducted. As many as 12 states have also adopted this level as a standard, with more states expected to follow.

Response:

The Army agrees that there is a guideline for airborne asbestos in buildings of 0.01 f/cc, however there is no standard or guideline for outdoor air which is what the Army monitored during Task 18.

Comment 7:
P. 5-3

The Report states that Colorado's Regulation No. 8 is identical to the Federal NESHAPS Regulation and that its intent is to prevent "visible emissions". This statement is inaccurate. Regulation No. 8 was written with the NESHAPS regulations as a model; however, it is more stringent than the NESHAPS regulations. Furthermore, Regulation No. 8 does not merely prevent visible emissions, since dangerously high levels of asbestos fibers can exist before there are any emissions visible to the naked eye. Regulation No. 8 regulates work practices, air cleaning and disposal practices during renovation and demolition activities that will disturb asbestos-containing materials. If the Army undertakes an asbestos abatement project, it must notify the Colorado Department of Health, Air Pollution Control Division, a minimum of ten days prior to beginning the project.

Response: Since Regulation No. 8 pertains only to certain specific industrial activities and none of the specified activities is occurring at RMA, Regulation No. 8 is not pertinent to remedial activity at the Arsenal except to the extent that the State elects to suggest it to the Army as a potential relevant and appropriate promulgated standard that is more stringent than a federal standard and warrants consideration at an ARAR.

While the Army has no legal obligation to advise CDH's Air Pollution Control Division of any asbestos abatement project undertaken on the RMA federal facility in the context of CERCLA response actions, the Army will keep the Air Pollution Control Division informed, through regular communications with CDH's RI/FS Committee representative, of all significant CERCLA-related asbestos abatement activity.

Comment 8: P. 5-3 The Report should indicate that the OSHA standard of 0.2 fibers/cc is a standard to be used only in an abatement workplace setting. It is not proper to apply this standard to a non-abatement setting; that is, 0.2 fibers/cc should not, in any way, be regarded as a safe ambient air level.

Response: The Army agrees and will modify the report accordingly.

Comment 9: P. 5-3 The Colorado Air Quality Control Commission's Regulation No. 7 contains general emission limitations for VOC's and requirements for disposal. The Arsenal is located in an ozone nonattainment area. Therefore, the disposal by evaporation of more than 10 gallons per day of VOCs is prohibited, Basin F has the potential to exceed this limitation. Therefore, the State disagrees with the statement on Page 5-3 that there are no regulatory

requirements that apply. Further, the State cannot agree with the statement on Page 5-4 which indicates the VOC and SVOC levels are not significant relative to historical monitoring. What is meant by historical monitoring and significant?

Response: Basin F is not presently evaporating more than 10 gallons per day of VOC's.

While evaporation has been part of the Basin F CERCLA interim response action as it has unfolded to date, resulting VOC levels, with infrequent exception, have been at zero or at background levels. Even where some VOC emissions have occurred at levels above background, these levels have been below the rate of 10 gallons of VOC per day.

The Army meant in its statement, "VOC and SVOC levels are not significant relative to historical data", that VOC and SVOC concentrations detected during Task 18 are similar to those detected during past monitoring for these compounds at RMA.

Comment 10: Appendix B

The State calculated a different flowrate for the TSP metal data tables presented in Appendix B. Is the computer program automatically converting to STP?

Response: Yes, the computer program is automatically converting to STP.

Comment 11: Appendix 3B

It appears that the asbestos air monitoring was conducted using a recognized protocol -- the NIOSH 7400 method. The report should include the actual sampling volumes tabulated in Appendix B.3 and a more detailed description of the air sampling techniques used.

Response: The Army detailed sampling techniques in the Task No. 18 Technical Plan. Sample volumes were at least those stated in the Technical Plan.

Comment 12: Appendix C — The Report should indicate whether the TSP averages are arithmetic or geometric.

Response: The averages are arithmetic and will be noted as such in the report.

Comment 13: Appendix D — The report should indicate whether the precipitation is a cumulative total or the amount which fell in each hour. July 17-24 shows values of .35 inch for every single hour. Is this an accurate amount? Also, the meteorological data for hours 10:15-13:15 on September 19 look unusually stable.

Response: The precipitation sensor resets to zero after 1 inch of cumulative precipitation. The value of 0.35 inches for the entire July 17 through July 24 period indicates that 0.35 inches of precipitation had been recorded up to July 17. No precipitation fell in the referenced period which explains why the value remained at 0.35.