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1 FDM - (DATED 93070)

IBM-PC VERSION (1.10)
(C) COPYRIGHT 1991-1995, TRINITY CONSULTANTS, INC.

DATE AT START OF RUN: 04/30/02 TIME AT START OF RUN: 09:47:27.77

RUN TITLE:
PAFF

INPUT FILE NAME: FDM1.DAT
OUTPUT FILE NAME: FDM1.LST

CONVERGENCE OPTION 1=OFF, 2=ON	1
MET OPTION SWITCH, 1=CARDS, 2=PREPROCESSED	1
PLOT FILE OUTPUT, 1=NO, 2=YES	1
MET DATA PRINT SWITCH, 1=NO, 2=YES	1
POST-PROCESSOR OUTPUT, 1=NO, 2=YES	1
DEP. VEL./GRAV. SETL. VEL., 1=DEFAULT, 2=USER	1
PRINT 1-HOUR AVERAGE CONCEN, 1=NO, 2=YES	3
PRINT 3-HOUR AVERAGE CONCEN, 1=NO, 2=YES	1
PRINT 8-HOUR AVERAGE CONCEN, 1=NO, 2=YES	1
PRINT 24-HOUR AVERAGE CONCEN, 1=NO, 2=YES	1
PRINT LONG-TERM AVERAGE CONCEN, 1=NO, 2=YES	1
BYPASS RAMMET CALMS RECOGNITION, 1=NO, 2=YES	2
READ HOURLY EMISSION RATES, 1=NO, 2=YES	0
NUMBER OF SOURCES PROCESSED	1
NUMBER OF RECEPTORS PROCESSED	124
NUMBER OF PARTICLE SIZE CLASSES	9
NUMBER OF HOURS OF MET DATA PROCESSED	36
LENGTH IN MINUTES OF 1-HOUR OF MET DATA	60.
ROUGHNESS LENGTH IN CM	100.00
SCALING FACTOR FOR SOURCE AND RECPTORS	1.0000
PARTICLE DENSITY IN G/CM**3	1.60
ANEMOMETER HEIGHT IN M	10.00

GENERAL PARTICLE SIZE CLASS INFORMATION

PARTICLE SIZE CLASS	CHAR. DIA. (UM)	GRAV. SETTLING VELOCITY (M/SEC)	DEPOSITION VELOCITY (M/SEC)	FRACTION IN EACH SIZE CLASS
1	0.5000000	**	**	0.0400
2	1.5000000	**	**	0.0700
3	2.2500000	**	**	0.0400
4	2.7500000	**	**	0.0300
5	3.5000000	**	**	0.0700
6	4.5000000	**	**	0.0500

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                7     5.5000000        **          **    0.0400
                8     8.0000000        **          **    0.1700
                9    20.0000000        **          **    0.4900
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          ** COMPUTED BY FDM
1

          RECEPTOR COORDINATES (X,Y,Z)

(810250., 825250.,  2.)  (810300., 825250.,  2.)  (810350., 825250.,  2.)
(810400., 825250.,  2.)  (810450., 825250.,  2.)  (810500., 825250.,  2.)
(810550., 825250.,  2.)  (810600., 825250.,  2.)  (810650., 825250.,  2.)
(810700., 825250.,  2.)  (810750., 825250.,  2.)  (810250., 825300.,  2.)
(810300., 825300.,  2.)  (810350., 825300.,  2.)  (810400., 825300.,  2.)
(810450., 825300.,  2.)  (810500., 825300.,  2.)  (810550., 825300.,  2.)
(810600., 825300.,  2.)  (810650., 825300.,  2.)  (810700., 825300.,  2.)
(810750., 825300.,  2.)  (810250., 825350.,  2.)  (810300., 825350.,  2.)
(810350., 825350.,  2.)  (810400., 825350.,  2.)  (810450., 825350.,  2.)
(810500., 825350.,  2.)  (810550., 825350.,  2.)  (810600., 825350.,  2.)
(810650., 825350.,  2.)  (810700., 825350.,  2.)  (810750., 825350.,  2.)
(810250., 825400.,  2.)  (810300., 825400.,  2.)  (810350., 825400.,  2.)
(810400., 825400.,  2.)  (810450., 825400.,  2.)  (810500., 825400.,  2.)
(810550., 825400.,  2.)  (810600., 825400.,  2.)  (810650., 825400.,  2.)
(810700., 825400.,  2.)  (810750., 825400.,  2.)  (810250., 825450.,  2.)
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(810750., 825450.,  2.)  (810250., 825500.,  2.)  (810300., 825500.,  2.)
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(810600., 825750.,  2.)  (810650., 825750.,  2.)  (810700., 825750.,  2.)
(810750., 825750.,  2.)  (810440., 825540.,  2.)  (810188., 825600.,  2.)
(810650., 825350.,  2.)  (
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SOURCE INFORMATION

TYPE	ENTERED EMIS. RATE (G/SEC, G/SEC/M OR G/SEC/M**2)	TOTAL EMISSION RATE (G/SEC)	WIND SPEED FAC.	X1 (M)	Y1 (M)	X2 (M)	Y2 (M)	HEIGHT (M)	WIDTH (M)
3	0.000239000	0.59849	0.000	810527.	825475.	48.	52.	0.50	51.34
TOTAL EMISSIONS		0.59849E+00 GRAMS/SEC							

SHORT DISTANCE (5,000 M) MASS CONSERVATION CORRECTION FACTORS USED

1

TOP 50 TABLE FOR 1 HOUR AVERAGES

RANK	RECEPTOR	X-COORDINATE	Y-COORDINATE	ENDING HOUR	CONCENTRATION	DEPOSITION
1	51	810550.0	825450.0	32	1394.4503	27.1949
2	61	810500.0	825500.0	14	1319.7001	25.7459
3	62	810550.0	825500.0	23	1314.9520	25.6498
4	51	810550.0	825450.0	30	1308.2924	25.5107
5	62	810550.0	825500.0	21	1286.8571	25.1019
6	50	810500.0	825450.0	5	1254.3778	24.4751
7	61	810500.0	825500.0	12	1249.1959	24.3707
8	51	810550.0	825450.0	31	1237.3369	24.1411
9	61	810500.0	825500.0	13	1165.8575	22.7503
10	50	810500.0	825450.0	3	1156.7766	22.5699
11	62	810550.0	825500.0	22	1152.1272	22.4822
12	50	810500.0	825450.0	4	1087.8839	21.2301
13	51	810550.0	825450.0	34	1023.3354	19.9717
14	62	810550.0	825500.0	25	1015.5687	19.8198
15	51	810550.0	825450.0	33	998.4678	19.4851
16	62	810550.0	825500.0	19	994.1221	19.4000
17	51	810550.0	825450.0	35	967.5843	18.8814
18	51	810550.0	825450.0	29	961.5630	18.7662
19	51	810550.0	825450.0	28	957.8543	18.6881
20	62	810550.0	825500.0	20	953.7246	18.6138
21	50	810500.0	825450.0	7	946.4551	18.4719
22	62	810550.0	825500.0	24	944.5351	18.4343
23	61	810500.0	825500.0	16	925.3093	18.0595
24	61	810500.0	825500.0	15	915.1240	17.8597
25	61	810500.0	825500.0	11	899.6368	17.5580
26	50	810500.0	825450.0	6	889.0391	17.3502
27	61	810500.0	825500.0	10	883.3189	17.2394
28	50	810500.0	825450.0	2	870.4280	16.9884
29	50	810500.0	825450.0	1	821.6120	16.0344

30	62	810550.0	825500.0	26	786.6210	15.3496
31	50	810500.0	825450.0	8	761.8242	14.8682
32	61	810500.0	825500.0	17	731.3521	14.2731
33	51	810550.0	825450.0	36	673.4376	13.1401
34	62	810550.0	825500.0	18	662.6818	12.9311
35	51	810550.0	825450.0	27	603.3223	11.7682
36	61	810500.0	825500.0	9	585.1538	11.4189
37	63	810600.0	825500.0	25	558.3115	10.8505
38	52	810600.0	825450.0	29	557.7367	10.8388
39	40	810550.0	825400.0	34	550.4929	10.6953
40	72	810500.0	825550.0	16	541.1789	10.5107
41	73	810550.0	825550.0	20	521.4236	10.1304
42	49	810450.0	825450.0	7	521.3270	10.1224
43	60	810450.0	825500.0	11	520.5401	10.1067
44	40	810550.0	825400.0	35	506.0875	9.8332
45	39	810500.0	825400.0	2	504.8144	9.8032
46	62	810550.0	825500.0	27	494.9763	9.6625
47	52	810600.0	825450.0	28	476.8109	9.2661
48	73	810550.0	825550.0	19	475.1279	9.2288
49	50	810500.0	825450.0	9	470.7332	9.1883
50	63	810600.0	825500.0	26	470.1703	9.1370

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HIGHEST AND SECOND HIGHEST VALUES FOR 1 HOUR AVERAGES

RECEPTOR	X-COORDINATE	Y-COORDINATE	HIGHEST VALUE	ENDING HOUR	DEPOSITION	SECOND HIGH	ENDING HOUR	DEPOSTION
1	810250.0	825250.0	43.4893	5.	0.7854	33.8952	6.	0.6125
2	810300.0	825250.0	49.2003	5.	0.8946	48.4019	4.	0.8801
3	810350.0	825250.0	62.8609	4.	1.1502	52.4890	3.	0.9610
4	810400.0	825250.0	76.2466	3.	1.4034	59.1374	2.	1.0891
5	810450.0	825250.0	87.3736	2.	1.6156	70.8010	1.	1.3099
6	810500.0	825250.0	93.4679	1.	1.7331	84.1919	36.	1.5614
7	810550.0	825250.0	91.7648	35.	1.7017	87.9335	36.	1.6309
8	810600.0	825250.0	88.2140	34.	1.6318	75.0342	35.	1.3886
9	810650.0	825250.0	76.8518	33.	1.4152	62.7944	34.	1.1570
10	810700.0	825250.0	63.8922	32.	1.1698	55.0123	33.	1.0076
11	810750.0	825250.0	50.1560	32.	0.9125	49.3103	31.	0.8972
12	810250.0	825300.0	49.4856	6.	0.8984	42.4220	5.	0.7705
13	810300.0	825300.0	62.6241	5.	1.1459	53.6203	6.	0.9816
14	810350.0	825300.0	76.4390	5.	1.4100	74.9385	4.	1.3824
15	810400.0	825300.0	99.0028	4.	1.8402	94.3815	3.	1.7546
16	810450.0	825300.0	122.7064	2.	2.2958	117.0097	3.	2.1898
17	810500.0	825300.0	146.1642	1.	2.7456	120.0868	36.	2.2565
18	810550.0	825300.0	145.1742	35.	2.7275	128.7154	36.	2.4192
19	810600.0	825300.0	128.6205	34.	2.4077	113.6113	33.	2.1273
20	810650.0	825300.0	100.2798	32.	1.8655	98.9063	33.	1.8399
21	810700.0	825300.0	78.4678	32.	1.4485	76.8451	31.	1.4186
22	810750.0	825300.0	64.2383	31.	1.1762	53.8019	30.	0.9856

23	810250.0	825350.0	54.4435	7.	0.9929	52.1122	6.	0.9505
24	810300.0	825350.0	75.1389	6.	1.3828	60.8678	7.	1.1207
25	810350.0	825350.0	97.8773	5.	1.8195	95.5451	6.	1.7760
26	810400.0	825350.0	136.9203	5.	2.5711	133.4185	4.	2.5054
27	810450.0	825350.0	199.4728	3.	3.7817	169.7310	4.	3.2187
28	810500.0	825350.0	248.9814	1.	4.7512	221.8709	2.	4.2357
29	810550.0	825350.0	256.6984	35.	4.9005	210.2255	34.	4.0147
30	810600.0	825350.0	205.6850	33.	3.9025	168.1297	32.	3.1920
31	810650.0	825350.0	142.3686	32.	2.6759	138.3866	31.	2.6011
32	810700.0	825350.0	101.8064	31.	1.8939	97.6225	30.	1.8164
33	810750.0	825350.0	77.9673	30.	1.4360	61.0793	29.	1.1256
34	810250.0	825400.0	59.4806	7.	1.0885	58.7298	8.	1.0748
35	810300.0	825400.0	86.7995	7.	1.6046	72.2288	8.	1.3358
36	810350.0	825400.0	124.4545	7.	2.3279	111.7809	6.	2.0915
37	810400.0	825400.0	196.0342	6.	3.7157	164.3606	5.	3.1175
38	810450.0	825400.0	316.8744	5.	6.0926	305.0760	4.	5.8656
39	810500.0	825400.0	504.8144	2.	9.8032	458.0176	3.	8.8976
40	810550.0	825400.0	550.4929	34.	10.6953	506.0875	35.	9.8332
41	810600.0	825400.0	340.2157	32.	6.5506	325.1409	31.	6.2599
42	810650.0	825400.0	209.0964	30.	3.9684	175.5755	31.	3.3331
43	810700.0	825400.0	127.7803	29.	2.3926	119.0178	30.	2.2292
44	810750.0	825400.0	89.4541	29.	1.6552	73.6813	28.	1.3640
45	810250.0	825450.0	62.7139	8.	1.1498	62.2272	9.	1.1408
46	810300.0	825450.0	91.0645	8.	1.6879	85.1340	9.	1.5782
47	810350.0	825450.0	142.5893	8.	2.6773	122.8014	9.	2.3064
48	810400.0	825450.0	245.9940	8.	4.6922	211.5829	7.	4.0377
49	810450.0	825450.0	521.3270	7.	10.1224	450.9795	8.	8.7551
50	810500.0	825450.0	1254.3778	5.	24.4751	1156.7766	3.	22.5699
51	810550.0	825450.0	1394.4503	32.	27.1949	1308.2924	30.	25.5107
52	810600.0	825450.0	557.7367	29.	10.8388	476.8109	28.	9.2661
53	810650.0	825450.0	260.6509	28.	4.9788	225.6918	29.	4.3128
54	810700.0	825450.0	149.0892	28.	2.8025	127.2598	27.	2.3931
55	810750.0	825450.0	94.2983	28.	1.7495	87.6739	27.	1.6269
56	810250.0	825500.0	62.8162	10.	1.1516	62.3076	9.	1.1423
57	810300.0	825500.0	91.3138	10.	1.6925	85.3120	9.	1.5815
58	810350.0	825500.0	143.3326	10.	2.6912	123.2464	9.	2.3149
59	810400.0	825500.0	248.4263	10.	4.7386	211.0801	11.	4.0280
60	810450.0	825500.0	520.5401	11.	10.1067	456.6315	10.	8.8654
61	810500.0	825500.0	1319.7001	14.	25.7459	1249.1959	12.	24.3707
62	810550.0	825500.0	1314.9520	23.	25.6498	1286.8571	21.	25.1019
63	810600.0	825500.0	558.3115	25.	10.8505	470.1703	26.	9.1370
64	810650.0	825500.0	258.0129	26.	4.9283	226.1782	25.	4.3221
65	810700.0	825500.0	148.3505	26.	2.7886	126.7785	27.	2.3839
66	810750.0	825500.0	94.0870	26.	1.7456	87.4832	27.	1.6233
67	810250.0	825550.0	59.4482	11.	1.0879	58.9452	10.	1.0787
68	810300.0	825550.0	86.7921	11.	1.6045	72.5724	10.	1.3423
69	810350.0	825550.0	124.6208	11.	2.3311	113.0476	12.	2.1153
70	810400.0	825550.0	201.8094	12.	3.8258	162.6254	13.	3.0840
71	810450.0	825550.0	321.0171	13.	6.1730	315.1587	14.	6.0612
72	810500.0	825550.0	541.1789	16.	10.5107	460.4215	15.	8.9437
73	810550.0	825550.0	521.4236	20.	10.1304	475.1279	19.	9.2288
74	810600.0	825550.0	326.4790	22.	6.2836	319.3860	23.	6.1477

75	810650.0	825550.0	202.6694	24.	3.8457	177.1738	23.	3.3640
76	810700.0	825550.0	127.4802	25.	2.3869	117.4342	24.	2.1993
77	810750.0	825550.0	89.4064	25.	1.6542	73.2476	26.	1.3559
78	810250.0	825600.0	54.4775	11.	0.9936	52.4507	12.	0.9567
79	810300.0	825600.0	75.9623	12.	1.3980	60.9540	11.	1.1224
80	810350.0	825600.0	97.6702	13.	1.8155	96.8950	12.	1.8013
81	810400.0	825600.0	137.8060	13.	2.5879	135.2979	14.	2.5410
82	810450.0	825600.0	199.6206	15.	3.7849	173.6911	14.	3.2949
83	810500.0	825600.0	251.8059	17.	4.8059	222.8864	16.	4.2549
84	810550.0	825600.0	254.7325	19.	4.8624	210.7460	20.	4.0253
85	810600.0	825600.0	205.9004	21.	3.9063	164.7081	22.	3.1259
86	810650.0	825600.0	140.1295	22.	2.6333	137.4422	23.	2.5831
87	810700.0	825600.0	101.9446	23.	1.8965	96.3193	24.	1.7919
88	810750.0	825600.0	77.0789	24.	1.4195	60.9321	25.	1.1228
89	810250.0	825650.0	49.8525	12.	0.9051	42.3491	13.	0.7692
90	810300.0	825650.0	62.6261	13.	1.1460	53.9870	12.	0.9883
91	810350.0	825650.0	76.7249	13.	1.4154	75.5296	14.	1.3934
92	810400.0	825650.0	100.4152	14.	1.8668	94.6171	15.	1.7592
93	810450.0	825650.0	124.6321	16.	2.3321	116.4241	15.	2.1789
94	810500.0	825650.0	146.2310	17.	2.7469	121.5509	18.	2.2844
95	810550.0	825650.0	145.3809	19.	2.7314	127.3329	18.	2.3928
96	810600.0	825650.0	126.8708	20.	2.3747	114.3311	21.	2.1409
97	810650.0	825650.0	98.8670	22.	1.8389	98.7866	21.	1.8375
98	810700.0	825650.0	77.8006	22.	1.4360	76.5770	23.	1.4135
99	810750.0	825650.0	64.2270	23.	1.1760	53.4946	24.	0.9799
100	810250.0	825700.0	43.5094	13.	0.7857	34.0139	12.	0.6147
101	810300.0	825700.0	49.3136	13.	0.8967	48.6641	14.	0.8849
102	810350.0	825700.0	63.4234	14.	1.1607	52.6318	15.	0.9636
103	810400.0	825700.0	76.1757	15.	1.4021	59.6061	16.	1.0979
104	810450.0	825700.0	88.1243	16.	1.6296	71.2348	17.	1.3180
105	810500.0	825700.0	93.3048	17.	1.7300	84.7188	18.	1.5713
106	810550.0	825700.0	92.0106	19.	1.7063	87.4558	18.	1.6219
107	810600.0	825700.0	87.6075	20.	1.6205	74.5228	19.	1.3790
108	810650.0	825700.0	77.0134	21.	1.4181	62.4040	20.	1.1497
109	810700.0	825700.0	63.3232	22.	1.1593	54.9181	21.	1.0059
110	810750.0	825700.0	49.8771	22.	0.9074	49.2169	23.	0.8954
111	810250.0	825750.0	34.8586	13.	0.6261	34.4552	14.	0.6189
112	810300.0	825750.0	43.7551	14.	0.7902	33.1762	15.	0.5996
113	810350.0	825750.0	49.4932	15.	0.8986	43.5310	14.	0.7907
114	810400.0	825750.0	54.1939	16.	0.9886	53.3837	15.	0.9739
115	810450.0	825750.0	60.7532	16.	1.1121	58.5501	17.	1.0718
116	810500.0	825750.0	64.1676	17.	1.1768	62.1012	18.	1.1390
117	810550.0	825750.0	63.5513	18.	1.1655	63.0419	19.	1.1563
118	810600.0	825750.0	60.0973	19.	1.1003	59.6729	20.	1.0926
119	810650.0	825750.0	55.3355	20.	1.0097	52.8697	21.	0.9649
120	810700.0	825750.0	50.5136	21.	0.9175	42.6583	22.	0.7751
121	810750.0	825750.0	43.9282	22.	0.7936	34.5171	21.	0.6241
122	810440.0	825540.0	320.8336	13.	6.1668	303.9914	12.	5.8451
123	810188.0	825600.0	42.7027	11.	0.7706	32.0249	12.	0.5784
124	810650.0	825350.0	142.3686	32.	2.6759	138.3866	31.	2.6011

DATE AT END OF RUN: 04/30/02 TIME AT END OF RUN: 09:47:28.21

ELAPSED TIME FOR THIS RUN: 0.44000E+00 SECONDS

OR 0 HOURS 0 MINUTES 0.44 SECONDS