JOB: STALBAN TOWER PR PM W&G

RUN: STALBAN TOWER PROP. EVENING

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General Information
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Run start date: 1/ 1/ 1 Julian: 1
end date: 12/31/ 1 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 64
Upper Air Sta. Id & Yr = 99999 64

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

	LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1.	W&G NB APPR	*	17.0	-538.0	17.0	-38.0	*	500.	360.	AG	.0	50.0	
2.	W&G NB QUEUE	*	17.0	-38.0	17.0	-538.0	*	500.	180.	AG	.0	30.0	3
3.	W&G NB DEP	*	17.0	-38.0	17.0	303.0	*	341.	360.	AG	.0	50.0	
4.	W&G SB APPR	*	4.0	435.0	-17.0	38.0	*	398.	183.	AG	.0	55.0	
5.	W&G SB QUEUE	*	-17.0	38.0	4.0	435.0	*	398.	3.	AG	.0	35.0	3
6.	W&G SB DEP	*	-17.0	38.0	17.0	-538.0	*	577.	177.	AG	.0	55.0	
7.	W&G WB APPR	*	440.0	29.0	34.0	7.0	*	407.	267.	AG	.0	35.0	
8.	W&G WB QUEUE	*	34.0	7.0	440.0	29.0	*	407.	87.	AG	.0	15.0	1
9.	W&G WB DEP	*	34.0	7.0	-364.0	23.0	*	398.	272.	AG	.0	35.0	
10.	W&G EB APPR	*	-424.0	7.0	-34.0	-7.0	*	390.	92.	AG	.0	35.0	
11.	W&G EB QUEUE	*	-34.0	-7.0	-424.0	-7.0	*	390.	270.	AG	.0	15.0	1
12.	W&G EB DEP	*	-34.0	-7.0	314.0	-23.0	*	348.	93.	AG	.0	35.0	

JOB: STALBAN TOWER PR PM W&G

RUN: STALBAN TOWER PROP. EVENING

Receptor Data

RECEPTOR	COORDINATES (FT) X	Y	Z
1. REC 1	-354.0	-36.0	6.0
2. REC 2	-50.0	-36.0	26.5
3. REC 3	50.0	-52.0	26.5
4. REC 4	310.0	-52.0	7.0
5. REC 5	258.0	36.0	7.2
6. REC 6	50.0	36.0	26.5
7. REC 7	-50.0	52.0	26.5
8. REC 8	-354.0	52.0	6.0
9. REC 9	-50.0	-36.0	26.5
10. REC 10	-50.0	330.0	27.0
11. REC 11	82.0	425.0	26.5
12. REC 12	-15.0	588.0	32.4

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

* MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED

* (PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG	.7	1.7	1.4	.7	1.2	1.5	1.6	1.0	1.7	1.2
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.7	1.7	1.4	.7	1.2	1.5	1.6	1.0	1.7	1.2
WIND DIR	80	138	199	286	228	193	168	103	138	168
JULIAN	306	158	98	155	159	43	22	313	158	22
HOUR	24	22	1	3	20	7	9	13	22	9

	REC11	REC12
MAX+BKG	[illegible]	[illegible]
- BKG	[illegible]	[illegible]
MAX	.6	.5
WIND DIR	186	168
JULIAN	136	22
HOUR	7	9

JOB: STALBAN TOWER PR PM W&G

RUN: STALBAN TOWER PROP. EVENING

THE HIGHEST CONCENTRATION OF 1.70 PPM OCCURRED AT RECEPTOR REC2 .

JOB: STALBAN TOWER PR PM W&G

RUN: STALBAN TOWER PROP. EVENING

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.25	(262, 6)	C 2	.23	(307, 3)	C 4
2	.87	(270, 7)	C 2	.80*	(267, 5)	C 1
3	.83	(347,10)	C 1	.77	(181, 5)	C 2
4	.40	(311,23)	C 2	.40	(29, 7)	C 2
5	.60	(314,10)	C 1	.60	(181, 7)	C 1
6	.88*	(43,10)	C 2	.79	(140, 4)	C 0
7	.80	(161, 4)	C 1	.68	(329, 7)	C 2
8	.30	(107, 6)	C 3	.28	(329,10)	C 4
9	.87	(270, 7)	C 2	.80	(267, 5)	C 1
10	.50	(161, 6)	C 1	.43	(295, 7)	C 2
11	.25	(43,10)	C 2	.24	(315, 1)	C 1
12	.22	(248, 6)	C 4	.21	(347,23)	C 1

JOB: STALBAN TOWER PR PM W&G

RUN: STALBAN TOWER PROP. EVENING

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Conc	Highest Ending Day Hr	Highest Calm	Second Highest Conc	Second Highest Ending Day Hr	Second Highest Calm	Third Highest Conc	Third Highest Ending Day Hr	Third Highest Calm	Fourth Highest Conc	Fourth Highest Ending Day Hr	Fourth Highest Calm	Fifth Highest Conc	Fifth Highest Ending Day Hr	Fifth Highest Calm
1	.70	(306,24)	C 0	.60	(154, 2)	C 0	.60	(313,13)	C 0	.50	(46, 4)	C 0	.50	(107, 3)	C 0
2	1.70*	(158,22)	C 0	1.60*	(258, 8)	C 0	1.30	(107, 3)	C 0	1.10	(17,24)	C 0	1.10	(31, 1)	C 0
3	1.40	(98, 1)	C 0	1.40	(107, 5)	C 0	1.40	(146,21)	C 0	1.40	(159,20)	C 0	1.30	(43, 7)	C 0
4	.70	(155, 3)	C 0	.70	(182, 2)	C 0	.70	(192,23)	C 0	.70	(195,22)	C 0	.70	(218, 7)	C 0
5	1.20	(159,20)	C 0	1.10	(250, 7)	C 0	1.10	(314, 7)	C 0	1.00	(27, 7)	C 0	1.00	(48, 4)	C 0
6	1.50	(43, 7)	C 0	1.50	(43,10)	C 0	1.50	(139,23)	C 0	1.50	(301,20)	C 0	1.40	(22, 4)	C 0
7	1.60	(22, 9)	C 0	1.60	(258, 8)	C 0	1.20	(18, 1)	C 0	1.20	(54, 5)	C 0	1.20	(73, 5)	C 0
8	1.00	(313,13)	C 0	1.00	(154, 2)	C 0	.90	(107, 3)	C 0	.70	(160,22)	C 0	.50	(107, 4)	C 0
9	1.70	(158,22)	C 0	1.60	(258, 8)	C 0	1.30	(107, 3)	C 0	1.10	(17,24)	C 0	1.10	(31, 1)	C 0
10	1.20	(22, 9)	C 0	.80	(129, 4)	C 0	.80	(137, 1)	C 0	.80	(144, 7)	C 0	.80	(253, 8)	C 0
11	.60	(136, 7)	C 0	.60	(139,23)	C 0	.60	(301,20)	C 0	.50	(22, 4)	C 0	.50	(22, 6)	C 0
12	.50	(22, 9)	C 0	.40	(7,21)	C 0	.40	(24, 1)	C 0	.40	(48, 6)	C 0	.40	(98, 4)	C 0

JOB: STALBAN TOWER PR PM W&G

RUN: STALBAN TOWER PROP. EVENING

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	188	(7,13)(11, 5)(11,13)(21,24)(23,19)(29, 5)(31, 3)(31, 6)(34,24)(35, 6) (40,18)(42,23)(43, 5)(46, 2)(46,14)(48, 5)(54, 2)(54, 6)(56, 2)(59, 8) (62, 6)(62,23)(71,19)(72,23)(73, 4)(73, 8)(76, 8)(83, 4)(84,23)(85, 1) (105, 7)(110,18)(111,20)(125, 5)(126, 2)(126, 4)(132,21)(136, 8)(137, 4)(137, 6) (143,21)(144, 1)(154, 4)(154, 6)(156, 6)(158, 1)(160,24)(164, 1)(169, 6)(174, 4) (174,20)(175,21)(179, 6)(180, 5)(180,24)(182, 3)(182, 6)(184, 1)(188, 7)(188,24) (190, 2)(190,24)(191, 4)(191, 6)(192, 1)(192, 6)(193, 3)(193,23)(195,24)(198, 8) (199,20)(201,21)(201,24)(202, 2)(202, 5)(202,23)(203, 6)(204, 2)(204, 5)(204, 7) (205,22)(205,24)(206, 2)(206, 4)(210, 5)(212, 2)(214, 9)(214,21)(214,23)(215, 2) (215, 4)(215,21)(228,23)(230, 3)(233, 4)(238, 5)(239,22)(240, 2)(242, 3)(242,21) (242,23)(243, 1)(243,23)(244, 2)(244, 5)(246,22)(246,24)(247, 7)(248, 5)(250,22) (253,21)(255, 1)(257,24)(258, 3)(259,24)(260,21)(261, 1)(261, 6)(261, 8)(261,21) (261,24)(262, 3)(262, 7)(263, 1)(263, 3)(266, 4)(267, 3)(270, 1)(270, 5)(271,21) (273,14)(273,20)(276, 8)(277, 1)(280,23)(285, 8)(285,19)(288,19)(288,22)(289, 7) (289,18)(289,20)(289,24)(291,18)(292, 4)(292, 8)(294, 6)(297,23)(299, 4)(300, 6) (300, 8)(301, 4)(301, 7)(301,19)(302, 5)(306, 7)(306,15)(306,20)(307, 2)(308, 7) (308,22)(309,17)(311,19)(311,21)(312,18)(312,21)(314, 5)(315, 1)(319,11)(319,21) (320,20)(324,15)(329, 4)(329, 6)(336, 8)(338,21)(338,23)(339,11)(344,19)(344,21) (346, 8)(347, 5)(347,16)(356,19)(356,21)(357, 1)(357,23)(363,19)
2	55	(23,24)(24, 3)(29, 8)(36,18)(43, 3)(46, 6)(48,22)(49, 3)(102, 3)(111,24) (125,23)(136, 6)(139, 2)(139, 6)(156, 3)(157,21)(174,23)(193, 1)(196, 4)(198, 6) (198,23)(200,23)(203, 2)(203,22)(205, 1)(205, 5)(205, 8)(208,23)(222,24)(242, 6) (247, 3)(249,24)(250, 3)(250, 6)(250, 9)(261, 4)(262,20)(262,23)(272, 1)(279, 5) (281, 7)(286, 7)(288, 8)(289, 1)(299, 2)(301,23)(302, 2)(302,23)(306,23)(328,22) (329, 9)(344,24)(355,24)(356, 8)(361,10)
3	27	(18,23)(45,24)(49, 7)(53, 7)(102, 7)(107, 2)(144, 6)(160, 7)(180,22)(183, 2) (193, 7)(194, 3)(199,24)(202,21)(209, 4)(218, 3)(228, 7)(230, 7)(243, 6)(280, 5) (281, 3)(289, 5)(301, 2)(312, 7)(320, 4)(329,19)(356, 4)
4	12	(87,24)(170, 2)(198, 3)(209,24)(233, 1)(248, 1)(254,23)(269,23)(280, 1)(300,22) (312, 3)(320, 9)
5	12	(142,24)(143, 6)(147, 2)(169, 4)(178, 7)(188, 4)(189, 6)(228, 3)(254, 6)(286,23) (295, 1)(307, 8)
6	6	(59, 6)(199, 6)(238, 2)(259, 3)(288, 5)(298, 6)

```
          7              3        (229, 7)(286, 3)(310, 2)
          9              2        (220, 6)(252, 5)
         10              3        (253, 7)(305, 9)(309, 9)

Program terminated normally
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```
'STALBAN TOWER EX AM W&G'   60.   175.   0.   0.  12  0.3048   1
1 1 01 12 31 01
99999   64   99999   64
0  0  'U'
'REC 1'     -354.      -36.    6.0
'REC 2'      -50.      -36.   26.5
'REC 3'       50.      -52.   26.5
'REC 4'      310.      -52.    7.0
'REC 5'      258.       36.    7.2
'REC 6'       50.       36.   26.5
'REC 7'      -50.       52.   26.5
'REC 8'     -354.       52.    6.0
'REC 9'      -50.      -36.   26.5
'REC 10'     -50.      330.   27.0
'REC 11'      82.      425.   26.5
'REC 12'     -15.      588.   32.4
1  'C'
1 1 1 1 1 1 1
'STALBAN TOWER EXIST MORNING'   12
1  1
'W&G  NB APPR    '   'AG'       17.   -538.    17.     -38.  0.   50.
2  2
'W&G  NB QUEUE   '   'AG'       17.    -38.    17.    -538.  0.   30.0   3
3  1
'W&G  NB DEP     '   'AG'       17.    -38.    17.     303.  0.   50.
4  1
'W&G SB APPR     '   'AG'        4.    435.   -17.      38.  0.   55.
5  2
'W&G SB QUEUE    '   'AG'      -17.     38.     4.     435.  0.   35.0   3
6  1
'W&G SB DEP      '   'AG'      -17.     38.    17.    -538.  0.   55.
7  1
'W&G WB APPR     '   'AG'      440.     29.    34.       7.  0.   35.
8  2
'W&G WB QUEUE    '   'AG'       34.      7.   440.      29.  0.   15.0   1
9  1
'W&G WB DEP      '   'AG'       34.      7.  -364.      23.  0.   35.
10 1
'W&G EB APPR     '   'AG'     -424.      7.   -34.      -7.  0.   35.
11 2
'W&G EB QUEUE    '   'AG'      -34.     -7.  -424.      -7.  0.   15.0    1
12 1
'W&G EB DEP      '   'AG'      -34.     -7.   314.     -23.  0.   35.
01   0.0
1       860.   13.86
2       90     65     1.0     860   206.96    0  0  3
3       780.   13.86
4      1625.   13.86
5       90     44     1.0    1625   206.96    0  0  4
6      1145.   13.86
7       156.   28.02
8       90     67     1.0     156   206.96    0  0  2
9        59.   28.02
10      393.   28.02
11      90     67     1.0     393   206.96    0  0
12      771.   28.02
```

JOB: STALBAN TOWER EX AM W&G

RUN: STALBAN TOWER EXIST MORNING

General Information

Run start date: 1/ 1/ 1 Julian: 1
end date: 12/31/ 1 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 64
Upper Air Sta. Id & Yr = 99999 64

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

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3.	W&G NB DEP	17.0	-38.0	17.0	303.0	341.	360.	AG	.0	50.0	
4.	W&G SB APPR	4.0	435.0	-17.0	38.0	398.	183.	AG	.0	55.0	
5.	W&G SB QUEUE	-17.0	38.0	4.0	435.0	398.	3.	AG	.0	35.0	3
6.	W&G SB DEP	-17.0	38.0	17.0	-538.0	577.	177.	AG	.0	55.0	
7.	W&G WB APPR	440.0	29.0	34.0	7.0	407.	267.	AG	.0	35.0	
8.	W&G WB QUEUE	34.0	7.0	440.0	29.0	407.	87.	AG	.0	15.0	1
9.	W&G WB DEP	34.0	7.0	-364.0	23.0	398.	272.	AG	.0	35.0	
10.	W&G EB APPR	-424.0	7.0	-34.0	-7.0	390.	92.	AG	.0	35.0	
11.	W&G EB QUEUE	-34.0	-7.0	-424.0	-7.0	390.	270.	AG	.0	15.0	1
12.	W&G EB DEP	-34.0	-7.0	314.0	-23.0	348.	93.	AG	.0	35.0	

JOB: STALBAN TOWER EX AM W&G

RUN: STALBAN TOWER EXIST MORNING

Receptor Data

	RECEPTOR	*	COORDINATES (FT) X	Y	Z
1.	REC 1	*	-354.0	-36.0	6.0
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3.	REC 3	*	50.0	-52.0	26.5
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7.	REC 7	*	-50.0	52.0	26.5
8.	REC 8	*	-354.0	52.0	6.0
9.	REC 9	*	-50.0	-36.0	26.5
10.	REC 10	*	-50.0	330.0	27.0
11.	REC 11	*	82.0	425.0	26.5
12.	REC 12	*	-15.0	588.0	32.4

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

* MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED

* (PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG	1.8	1.5	1.4	1.2	1.2	1.5	1.6	1.5	1.5	1.5
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	1.8	1.5	1.4	1.2	1.2	1.5	1.6	1.5	1.5	1.5
WIND DIR	80	138	228	288	259	193	168	107	138	168
JULIAN	306	158	159	237	133	43	22	154	158	22
HOUR	24	22	20	5	21	7	9	2	22	9

	REC11	REC12
MAX+BKG	.8	.6
- BKG	.0	.0
MAX	.8	.6
WIND DIR	195	178
JULIAN	48	7
HOUR	7	21

JOB: STALBAN TOWER EX AM W&G RUN: STALBAN TOWER EXIST MORNING

THE HIGHEST CONCENTRATION OF 1.80 PPM OCCURRED AT RECEPTOR REC1 .

JOB: STALBAN TOWER EX AM W&G

RUN: STALBAN TOWER EXIST MORNING

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8 H [illegible] BEGINNING H H OVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.95*	(262, 5)	C 2	.88*	(191, 8)	C 2
2	.82	(270, 7)	C 2	.77	(175, 4)	C 2
3	.72	(181, 5)	C 2	.66	(314, 6)	C 1
4	.67	(311,23)	C 2	.58	(29, 7)	C 2
5	.63	(181, 5)	C 2	.61	(314,10)	C 1
6	.85	(43,10)	C 2	.81	(22, 6)	C 1
7	.79	(161, 4)	C 1	.70	(110,21)	C 1
8	.75	(329, 7)	C 2	.73	(107, 8)	C 2
9	.82	(270, 7)	C 2	.77	(175, 4)	C 2
10	.64	(161, 6)	C 1	.60	(295, 7)	C 2
11	.36	(347,10)	C 1	.33	(43,10)	C 2
12	.29	(347,23)	C 1	.28	(248, 6)	C 4

(WISCONSIN AVE. & MASSACHUSETTS AVE., NW)

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'STALBAN TOWER EX AM W&M'   60.   175.   0.   0.  11  0.3048   1
1 1 01 12 31 01
99999   64   99999   64
0  0  'U'
'REC 2'      -50.      -36.   26.5
'REC 3'       50.      -52.   26.5
'REC 4'      310.      -52.   7.0
'REC 5'      258.       36.   7.2
'REC 6'       50.       36.   26.5
'REC 7'      -50.       52.   26.5
'REC 9'      -50.      -36.   26.5
'REC 10'     -50.      330.   27.0
'REC 11'      82.      425.   26.5
'REC 12'     -15.      588.   32.4
'REC 13'     -90.      588.   32.4
1  'C'
1 1 1 1 1 1 1
'STALBAN TOWER EXIST MORNING'   12
1  1
'W&M NB APPR     '   'AG'       17.    -38.    17.     303.  0.   50.
2  2
'W&M NB QUEUE    '   'AG'       17.    303.    17.     -38.  0.   30.0   3
3  1
'W&M NB DEP      '   'AG'       17.    303.    54.     520.  0.   50.
4  1
'W&M SB APPR     '   'AG'       23.    569.     4.     435.  0.   55.
5  2
'W&M SB QUEUE    '   'AG'        4.    435.    23.     569.  0.   35.0   3
6  1
'W&M SB DEP      '   'AG'        4.    435.   -17.      38.  0.   55.
7  1
'W&M WB APPR     '   'AG'      448.    -34.    53.     378.  0.   50.
8  2
'W&M WB QUEUE    '   'AG'       53.    378.   448.     -34.  0.   30.0   3
9  1
'W&M WB DEP      '   'AG'       53.    378.  -116.     510.  0.   50.
10 1
'W&M EB APPR     '   'AG'     -238.    588.   -29.     364.  0.   50.
11 2
'W&M EB QUEUE    '   'AG'      -29.    364.  -238.     588.  0.   30.0   3
12 1
'W&M EB DEP      '   'AG'      -29.    364.   448.     -34.  0.   50.
01   0.0
1       780.   11.18
2       90     62     1.0     780   206.96    0  0  5
3      1004.   11.18
4      1420.   11.18
5       90     62     1.0    1420   206.96    0  0  5
6      1628.   11.18
7       748.   13.86
8       90     38     1.0     748   206.96    0  0  5
9       524.   13.86
10     1467.   13.86
11      90     38     1.0    1467   206.96    0  0  5
12     1260.   13.86
```

JOB: STALBAN TOWER EX AM W&M

RUN: STALBAN TOWER EXIST MORNING

==========
General Information
==========

Run start date: 1/ 1/ 1 Julian: 1
end date: 12/31/ 1 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 64
Upper Air Sta. Id & Yr = 99999 64

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

	LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1.	W&M NB APPR	*	17.0	-38.0	17.0	303.0	*	341.	360.	AG	.0	50.0	
2.	W&M NB QUEUE	*	17.0	303.0	17.0	-38.0	*	341.	180.	AG	.0	30.0	3
3.	W&M NB DEP	*	17.0	303.0	54.0	520.0	*	220.	10.	AG	.0	50.0	
4.	W&M SB APPR	*	23.0	569.0	4.0	435.0	*	135.	188.	AG	.0	55.0	
5.	W&M SB QUEUE	*	4.0	435.0	23.0	569.0	*	135.	8.	AG	.0	35.0	3
6.	W&M SB DEP	*	4.0	435.0	-17.0	38.0	*	398.	183.	AG	.0	55.0	
7.	W&M WB APPR	*	448.0	-34.0	53.0	378.0	*	571.	316.	AG	.0	50.0	
8.	W&M WB QUEUE	*	53.0	378.0	448.0	-34.0	*	571.	136.	AG	.0	30.0	3
9.	W&M WB DEP	*	53.0	378.0	-116.0	510.0	*	214.	308.	AG	.0	50.0	
10.	W&M EB APPR	*	-238.0	588.0	-29.0	364.0	*	306.	137.	AG	.0	50.0	
11.	W&M EB QUEUE	*	-29.0	364.0	-238.0	588.0	*	306.	317.	AG	.0	30.0	3
12.	W&M EB DEP	*	-29.0	364.0	448.0	-34.0	*	621.	130.	AG	.0	50.0	

JOB: STALBAN TOWER EX AM W&M

RUN: STALBAN TOWER EXIST MORNING

Receptor Data

	RECEPTOR	*	COORDINATES (FT) X	Y	Z
1.	REC 2	*	-50.0	-36.0	26.5
2.	REC 3	*	50.0	-52.0	26.5
3.	REC 4	*	310.0	-52.0	7.0
4.	REC 5	*	258.0	36.0	7.2
5.	REC 6	*	50.0	36.0	26.5
6.	REC 7	*	-50.0	52.0	26.5
7.	REC 9	*	-50.0	-36.0	26.5
8.	REC 10	*	-50.0	330.0	27.0
9.	REC 11	*	82.0	425.0	26.5
10.	REC 12	*	-15.0	588.0	32.4
11.	REC 13	*	-90.0	588.0	32.4

Model Results

Remarks : In search of the wind direction corresponding
to the maximum concentration, only the first
direction, of the directions with the same maximum
concentrations, is indicated as the maximum.

* MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED

* (PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG	.9	.8	1.1	1.3	1.1	1.1	.9	1.5	1.3	2.2
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.9	.8	1.1	1.3	1.1	1.1	.9	1.5	1.3	2.2
WIND DIR	9	355	328	328	348	12	9	138	328	168
JULIAN	273	192	154	154	288	7	273	158	154	22
HOUR	5	7	1	1	20	12	5	22	1	9

	REC11
MAX+BKG	1.6
- BKG	.0
MAX	1.6
WIND DIR	151
JULIAN	258
HOUR	8

JOB: STALBAN TOWER EX AM W&M

RUN: STALBAN TOWER EXIST MORNING

THE HIGHEST CONCENTRATION OF 2.20 PPM OCCURRED AT RECEPTOR REC10.

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.43	(273, 6)	C 0	.39	(260, 6)	C 1
2	.29	(212, 2)	C 1	.29	(274, 3)	C 1
3	.31	(164, 3)	C 1	.30	(258, 5)	C 2
4	.47	(178, 3)	C 1	.44	(154, 4)	C 1
5	.37	(274, 3)	C 1	.37	(309,20)	C 2
6	.46	(273, 6)	C 0	.46	(260, 6)	C 1
7	.43	(273, 6)	C 0	.39	(260, 6)	C 1
8	.87	(270, 7)	C 2	.83	(110,21)	C 1
9	.75	(43, 7)	C 3	.73	(178, 4)	C 2
10	.93*	(161, 6)	C 1	.89*	(98, 5)	C 0
11	.74	(161, 4)	C 1	.63	(329, 7)	C 2

JOB: STALBAN TOWER EX AM W&M

RUN: STALBAN TOWER EXIST MORNING

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Conc	Highest Ending Day Hr	Highest Calm	Second Highest Conc	Second Highest Ending Day Hr	Second Highest Calm	Third Highest Conc	Third Highest Ending Day Hr	Third Highest Calm	Fourth Highest Conc	Fourth Highest Ending Day Hr	Fourth Highest Calm	Fifth Highest Conc	Fifth Highest Ending Day Hr	Fifth Highest Calm
1	.90	(273, 5)	C 0	.80	(41,14)	C 0	.80	(217,17)	C 0	.80	(50, 8)	C 0	.80	(285, 3)	C 0
2	.80	(192, 7)	C 0	.80	(211,24)	C 0	.80	(238,20)	C 0	.80	(288,20)	C 0	.80	(309,18)	C 0
3	1.10	(154, 1)	C 0	.70	(42,24)	C 0	.70	(163,24)	C 0	.50	(34, 5)	C 0	.50	(125,24)	C 0
4	1.30	(154, 1)	C 0	1.00	(177, 1)	C 0	1.00	(177,23)	C 0	.90	(42,24)	C 0	.90	(163,24)	C 0
5	1.10	(288,20)	C 0	1.10	(309,18)	C 0	1.00	(192, 7)	C 0	1.00	(238,20)	C 0	.90	(194,10)	C 0
6	1.10	(7,12)	C 0	1.00	(217,17)	C 0	.90	(7, 9)	C 0	.90	(41,14)	C 0	.90	(50, 8)	C 0
7	.90	(273, 5)	C 0	.80	(41,14)	C 0	.80	(217,17)	C 0	.80	(50, 8)	C 0	.80	(285, 3)	C 0
8	1.50	(158,22)	C 0	1.40	(107, 3)	C 0	1.30	(41,14)	C 0	1.30	(180, 4)	C 0	1.30	(209, 5)	C 0
9	1.30	(154, 1)	C 0	1.20	(84,22)	C 0	1.20	(107, 7)	C 0	1.20	(158,20)	C 0	1.20	(164,22)	C 0
10	2.20*	(22, 9)	C 0	1.60*	(258, 8)	C 0	1.50	(48,18)	C 0	1.50	(54, 5)	C 0	1.50	(73, 5)	C 0
11	1.60	(258, 8)	C 0	1.40	(158,22)	C 0	1.30	(22, 9)	C 0	1.20	(128, 3)	C 0	1.20	(154,24)	C 0

JOB: STALBAN TOWER EX AM W&M

RUN: STALBAN TOWER EXIST MORNING

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	188	(7,13)(11, 5)(11,13)(21,24)(23,19)(29, 5)(31, 3)(31, 6)(34,24)(35, 6) (40,18)(42,23)(43, 5)(46, 2)(46,14)(48, 5)(54, 2)(54, 6)(56, 2)(59, 8) (62, 6)(62,23)(71,19)(72,23)(73, 4)(73, 8)(76, 8)(83, 4)(84,23)(85, 1) (105, 7)(110,18)(111,20)(125, 5)(126, 2)(126, 4)(132,21)(136, 8)(137, 4)(137, 6) (143,21)(144, 1)(154, 4)(154, 6)(156, 6)(158, 1)(160,24)(164, 1)(169, 6)(174, 4) (174,20)(175,21)(179, 6)(180, 5)(180,24)(182, 3)(182, 6)(184, 1)(188, 7)(188,24) (190, 2)(190,24)(191, 4)(191, 6)(192, 1)(192, 6)(193, 3)(193,23)(195,24)(198, 8) (199,20)(201,21)(201,24)(202, 2)(202, 5)(202,23)(203, 6)(204, 2)(204, 5)(204, 7) (205,22)(205,24)(206, 2)(206, 4)(210, 5)(212, 2)(214, 9)(214,21)(214,23)(215, 2) (215, 4)(215,21)(228,23)(230, 3)(233, 4)(238, 5)(239,22)(240, 2)(242, 3)(242,21) (242,23)(243, 1)(243,23)(244, 2)(244, 5)(246,22)(246,24)(247, 7)(248, 5)(250,22) (253,21)(255, 1)(257,24)(258, 3)(259,24)(260,21)(261, 1)(261, 6)(261, 8)(261,21) (261,24)(262, 3)(262, 7)(263, 1)(263, 3)(266, 4)(267, 3)(270, 1)(270, 5)(271,21) (273,14)(273,20)(276, 8)(277, 1)(280,23)(285, 8)(285,19)(288,19)(288,22)(289, 7) (289,18)(289,20)(289,24)(291,18)(292, 4)(292, 8)(294, 6)(297,23)(299, 4)(300, 6) (300, 8)(301, 4)(301, 7)(301,19)(302, 5)(306, 7)(306,15)(306,20)(307, 2)(308, 7) (308,22)(309,17)(311,19)(311,21)(312,18)(312,21)(314, 5)(315, 1)(319,11)(319,21) (320,20)(324,15)(329, 4)(329, 6)(336, 8)(338,21)(338,23)(339,11)(344,19)(344,21) (346, 8)(347, 5)(347,16)(356,19)(356,21)(357, 1)(357,23)(363,19)
2	55	(23,24)(24, 3)(29, 8)(36,18)(43, 3)(46, 6)(48,22)(49, 3)(102, 3)(111,24) (125,23)(136, 6)(139, 2)(139, 6)(156, 3)(157,21)(174,23)(193, 1)(196, 4)(198, 6) (198,23)(200,23)(203, 2)(203,22)(205, 1)(205, 5)(205, 8)(208,23)(222,24)(242, 6) (247, 3)(249,24)(250, 3)(250, 6)(250, 9)(261, 4)(262,20)(262,23)(272, 1)(279, 5) (281, 7)(286, 7)(288, 8)(289, 1)(299, 2)(301,23)(302, 2)(302,23)(306,23)(328,22) (329, 9)(344,24)(355,24)(356, 8)(361,10)
3	27	(18,23)(45,24)(49, 7)(53, 7)(102, 7)(107, 2)(144, 6)(160, 7)(180,22)(183, 2) (193, 7)(194, 3)(199,24)(202,21)(209, 4)(218, 3)(228, 7)(230, 7)(243, 6)(280, 5) (281, 3)(289, 5)(301, 2)(312, 7)(320, 4)(329,19)(356, 4)
4	12	(87,24)(170, 2)(198, 3)(209,24)(233, 1)(248, 1)(254,23)(269,23)(280, 1)(300,22) (312, 3)(320, 9)
5	12	(142,24)(143, 6)(147, 2)(169, 4)(178, 7)(188, 4)(189, 6)(228, 3)(254, 6)(286,23) (295, 1)(307, 8)
6	6	(59, 6)(199, 6)(238, 2)(259, 3)(288, 5)(298, 6)

```
          7               3         (229, 7)(286, 3)(310, 2)
          9               2         (220, 6)(252, 5)
         10               3         (253, 7)(305, 9)(309, 9)

Program terminated normally
```

```
'STALBAN TOWER EX PM W&M'    60.    175.    0.    0.   11  0.3048    1
1 1 01 12 31 01
99999    64    99999    64
0  0  'U'
'REC 2'      -50.      -36.    26.5
'REC 3'       50.      -52.    26.5
'REC 4'      310.      -52.    7.0
'REC 5'      258.       36.    7.2
'REC 6'       50.       36.    26.5
'REC 7'      -50.       52.    26.5
'REC 9'      -50.      -36.    26.5
'REC 10'     -50.     -330.    27.0
'REC 11'      82.      425.    26.5
'REC 12'     -15.      588.    32.4
'REC 13'     -90.      588.    32.4
1   'C'
1 1 1 1 1 1 1
'STALBAN TOWER EXIST EVENING'    12
1  1
'W&M NB APPR     '    'AG'        17.     -38.     17.      303.  0.    50.
2  2
'W&M NB QUEUE    '    'AG'        17.     303.     17.      -38.  0.    30.0    3
3  1
'W&M NB DEP      '    'AG'        17.     303.     54.      520.  0.    50.
4  1
'W&M SB APPR     '    'AG'        23.     569.      4.      435.  0.    55.
5  2
'W&M SB QUEUE    '    'AG'         4.     435.     23.      569.  0.    35.0    3
6  1
'W&M SB DEP      '    'AG'         4.     435.    -17.       38.  0.    55.
7  1
'W&M WB APPR     '    'AG'       448.     -34.     53.      378.  0.    50.
8  2
'W&M WB QUEUE    '    'AG'        53.     378.    448.      -34.  0.    30.0    3
9  1
'W&M WB DEP      '    'AG'        53.     378.   -116.      510.  0.    50.
10 1
'W&M EB APPR     '    'AG'      -238.     588.    -29.      364.  0.    50.
11 2
'W&M EB QUEUE    '    'AG'       -29.     364.   -238.      588.  0.    30.0    3
12 1
'W&M EB DEP      '    'AG'       -29.     364.    448.      -34.  0.    50.
01   0.0
1       978.    11.18
2       90      62      1.0      978    206.46    0  0  5
3      1324.    11.18
4       894.    11.18
5       90      62      1.0      894    206.46    0  0  5
6      1014.    11.18
7      1415.    13.86
8       90      38      1.0     1415    206.46    0  0  5
9      1067.    13.86
10      587.    13.86
11      90      38      1.0      587    206.46    0  0  5
12      469.    13.86
```

JOB: STALBAN TOWER EX PM W&M

RUN: STALBAN TOWER EXIST EVENING

==========
General Information
==========

Run start date: 1/ 1/ 1 Julian: 1
end date: 12/31/ 1 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 64
Upper Air Sta. Id & Yr = 99999 64

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

	LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1.	W&M NB APPR	*	17.0	-38.0	17.0	303.0	*	341.	360.	AG	.0	50.0	
2.	W&M NB QUEUE	*	17.0	303.0	17.0	-38.0	*	341.	180.	AG	.0	30.0	3
3.	W&M NB DEP	*	17.0	303.0	54.0	520.0	*	220.	10.	AG	.0	50.0	
4.	W&M SB APPR	*	23.0	569.0	4.0	435.0	*	135.	188.	AG	.0	55.0	
5.	W&M SB QUEUE	*	4.0	435.0	23.0	569.0	*	135.	8.	AG	.0	35.0	3
6.	W&M SB DEP	*	4.0	435.0	-17.0	38.0	*	398.	183.	AG	.0	55.0	
7.	W&M WB APPR	*	448.0	-34.0	53.0	378.0	*	571.	316.	AG	.0	50.0	
8.	W&M WB QUEUE	*	53.0	378.0	448.0	-34.0	*	571.	136.	AG	.0	30.0	3
9.	W&M WB DEP	*	53.0	378.0	-116.0	510.0	*	214.	308.	AG	.0	50.0	
10.	W&M EB APPR	*	-238.0	588.0	-29.0	364.0	*	306.	137.	AG	.0	50.0	
11.	W&M EB QUEUE	*	-29.0	364.0	-238.0	588.0	*	306.	317.	AG	.0	30.0	3
12.	W&M EB DEP	*	-29.0	364.0	448.0	-34.0	*	621.	130.	AG	.0	50.0	

JOB: STALBAN TOWER EX PM W&M

RUN: STALBAN TOWER EXIST EVENING

Receptor Data

	RECEPTOR	*	COORDINATES (FT) X	Y	Z
1.	REC 2	*	-50.0	-36.0	26.5
2.	REC 3	*	50.0	-52.0	26.5
3.	REC 4	*	310.0	-52.0	7.0
4.	REC 5	*	258.0	36.0	7.2
5.	REC 6	*	50.0	36.0	26.5
6.	REC 7	*	-50.0	52.0	26.5
7.	REC 9	*	-50.0	-36.0	26.5
8.	REC 10	*	-50.0	-330.0	27.0
9.	REC 11	*	82.0	425.0	26.5
10.	REC 12	*	-15.0	588.0	32.4
11.	REC 13	*	-90.0	588.0	32.4

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

* MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED

(PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG	.8	.7	.7	1.1	.9	1.1	.8	.3	1.3	2.3
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.8	.7	.7	1.1	.9	1.1	.8	.3	1.3	2.3
WIND DIR	19	355	328	328	355	19	19	7	198	168
JULIAN	41	192	154	154	192	41	41	50	146	22
HOUR	14	7	1	1	7	14	14	8	21	9

	REC11
MAX+BKG	1.6
BKG	.0
MAX	1.6
WIND DIR	151
JULIAN	258
HOUR	8

JOB: STALBAN TOWER EX PM W&M

RUN: STALBAN TOWER EXIST EVENING

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr	Highest Ending			Second Highest Ending			Third Highest Ending			Fourth Highest Ending			Fifth Highest Ending		
No.	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm
1	.80	(41,14)	C 0	.80	(209, 5)	C 0	.80	(7,12)	C 0	.70	(50, 8)	C 0	.70	(180, 4)	C 0
2	.70	(192, 7)	C 0	.70	(238,20)	C 0	.70	(309,18)	C 0	.60	(50, 8)	C 0	.60	(92,10)	C 0
3	.70	(154, 1)	C 0	.60	(177, 1)	C 0	.60	(247, 1)	C 0	.50	(7,20)	C 0	.50	(42,24)	C 0
4	1.10	(154, 1)	C 0	.70	(34, 5)	C 0	.70	(125,24)	C 0	.70	(163,22)	C 0	.70	(258, 5)	C 0
5	.90	(192, 7)	C 0	.90	(194,10)	C 0	.90	(238,20)	C 0	.90	(309,18)	C 0	.80	(137,21)	C 0
6	1.10	(41,14)	C 0	1.10	(209, 5)	C 0	1.10	(217,17)	C 0	1.00	(180, 4)	C 0	1.00	(7,12)	C 0
7	.80	(41,14)	C 0	.80	(209, 5)	C 0	.80	(7,12)	C 0	.70	(50, 8)	C 0	.70	(180, 4)	C 0
8	.30	(50, 8)	C 0	.30	(137,21)	C 0	.30	(273, 5)	C 0	.30	(205, 3)	C 0	.30	(361, 6)	C 0
9	1.30	(146,21)	C 0	1.20	(48, 7)	C 0	1.20	(84,22)	C 0	1.20	(98, 1)	C 0	1.20	(107, 5)	C 0
10	2.30*	(22, 9)	C 0	1.60*	(111,19)	C 0	1.60	(129, 3)	C 0	1.60	(153,24)	C 0	1.60	(258, 8)	C 0
11	1.60	(258, 8)	C 0	1.40	(158,22)	C 0	1.10	(97,22)	C 0	1.10	(110,15)	C 0	1.10	(193, 4)	C 0

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	188	(7,13)(11, 5)(11,13)(21,24)(23,19)(29, 5)(31, 3)(31, 6)(34,24)(35, 6) (40,18)(42,23)(43, 5)(46, 2)(46,14)(48, 5)(54, 2)(54, 6)(56, 2)(59, 8) (62, 6)(62,23)(71,19)(72,23)(73, 4)(73, 8)(76, 8)(83, 4)(84,23)(85, 1) (105, 7)(110,18)(111,20)(125, 5)(126, 2)(126, 4)(132,21)(136, 8)(137, 4)(137, 6) (143,21)(144, 1)(154, 4)(154, 6)(156, 6)(158, 1)(160,24)(164, 1)(169, 6)(174, 4) (174,20)(175,21)(179, 6)(180, 5)(180,24)(182, 3)(182, 6)(184, 1)(188, 7)(188,24) (190, 2)(190,24)(191, 4)(191, 6)(192, 1)(192, 6)(193, 3)(193,23)(195,24)(198, 8) (199,20)(201,21)(201,24)(202, 2)(202, 5)(202,23)(203, 6)(204, 2)(204, 5)(204, 7) (205,22)(205,24)(206, 2)(206, 4)(210, 5)(212, 2)(214, 9)(214,21)(214,23)(215, 2) (215, 4)(215,21)(228,23)(230, 3)(233, 4)(238, 5)(239,22)(240, 2)(242, 3)(242,21) (242,23)(243, 1)(243,23)(244, 2)(244, 5)(246,22)(246,24)(247, 7)(248, 5)(250,22) (253,21)(255, 1)(257,24)(258, 3)(259,24)(260,21)(261, 1)(261, 6)(261, 8)(261,21) (261,24)(262, 3)(262, 7)(263, 1)(263, 3)(266, 4)(267, 3)(270, 1)(270, 5)(271,21) (273,14)(273,20)(276, 8)(277, 1)(280,23)(285, 8)(285,19)(288,19)(288,22)(289, 7) (289,18)(289,20)(289,24)(291,18)(292, 4)(292, 8)(294, 6)(297,23)(299, 4)(300, 6) (300, 8)(301, 4)(301, 7)(301,19)(302, 5)(306, 7)(306,15)(306,20)(307, 2)(308, 7) (308,22)(309,17)(311,19)(311,21)(312,18)(312,21)(314, 5)(315, 1)(319,11)(319,21) (320,20)(324,15)(329, 4)(329, 6)(336, 8)(338,21)(338,23)(339,11)(344,19)(344,21) (346, 8)(347, 5)(347,16)(356,19)(356,21)(357, 1)(357,23)(363,19)
2	55	(23,24)(24, 3)(29, 8)(36,18)(43, 3)(46, 6)(48,22)(49, 3)(102, 3)(111,24) (125,23)(136, 6)(139, 2)(139, 6)(156, 3)(157,21)(174,23)(193, 1)(196, 4)(198, 6) (198,23)(200,23)(203, 2)(203,22)(205, 1)(205, 5)(205, 8)(208,23)(222,24)(242, 6) (247, 3)(249,24)(250, 3)(250, 6)(250, 9)(261, 4)(262,20)(262,23)(272, 1)(279, 5) (281, 7)(286, 7)(288, 8)(289, 1)(299, 2)(301,23)(302, 2)(302,23)(306,23)(328,22) (329, 9)(344,24)(355,24)(356, 8)(361,10)
3	27	(18,23)(45,24)(49, 7)(53, 7)(102, 7)(107, 2)(144, 6)(160, 7)(180,22)(183, 2) (193, 7)(194, 3)(199,24)(202,21)(209, 4)(218, 3)(228, 7)(230, 7)(243, 6)(280, 5) (281, 3)(289, 5)(301, 2)(312, 7)(320, 4)(329,19)(356, 4)
4	12	(87,24)(170, 2)(198, 3)(209,24)(233, 1)(248, 1)(254,23)(269,23)(280, 1)(300,22) (312, 3)(320, 9)
5	12	(142,24)(143, 6)(147, 2)(169, 4)(178, 7)(188, 4)(189, 6)(228, 3)(254, 6)(286,23) (295, 1)(307, 8)
6	6	(59, 6)(199, 6)(238, 2)(259, 3)(288, 5)(298, 6)

```
          7               3         (229, 7)(286, 3)(310, 2)
          9               2         (220, 6)(252, 5)
         10               3         (253, 7)(305, 9)(309, 9)

Program terminated normally
```

```
'STALBAN TOWER PR AM W&M'   60.   175.   0.   0.  11  0.3048   1
1 1 01 12 31 01
99999   64   99999   64
0  0  'U'
'REC 2'      -50.      -36.    26.5
'REC 3'       50.      -52.    26.5
'REC 4'      310.      -52.    7.0
'REC 5'      258.       36.    7.2
'REC 6'       50.       36.    26.5
'REC 7'      -50.       52.    26.5
'REC 9'      -50.      -36.    26.5
'REC 10'     -50.      330.    27.0
'REC 11'      82.      425.    26.5
'REC 12'     -15.      588.    32.4
'REC 13'     -90.      588.    32.4
1  'C'
1 1 1 1 1 1 1
'STALBAN TOWER PROP. MORNING'   12
1  1
'W&M NB APPR     '   'AG'       17.    -38.    17.     303.  0.   50.
2  2
'W&M NB QUEUE    '   'AG'       17.    303.    17.     -38.  0.   30.0   3
3  1
'W&M NB DEP      '   'AG'       17.    303.    54.     520.  0.   50.
4  1
'W&M SB APPR     '   'AG'       23.    569.     4.     435.  0.   55.
5  2
'W&M SB QUEUE    '   'AG'        4.    435.    23.     569.  0.   35.0   3
6  1
'W&M SB DEP      '   'AG'        4.    435.   -17.      38.  0.   55.
7  1
'W&M WB APPR     '   'AG'      448.    -34.    53.     378.  0.   50.
8  2
'W&M WB QUEUE    '   'AG'       53.    378.   448.     -34.  0.   30.0   3
9  1
'W&M WB DEP      '   'AG'       53.    378.  -116.     510.  0.   50.
10 1
'W&M EB APPR     '   'AG'     -238.    588.   -29.     364.  0.   50.
11 2
'W&M EB QUEUE    '   'AG'      -29.    364.  -238.     588.  0.   30.0   3
12 1
'W&M EB DEP      '   'AG'      -29.    364.   448.     -34.  0.   50.
01   0.0
1      795.   11.18
2       90     62     1.0     795   206.96    0  0  5
3     1019.   11.18
4     1423.   11.18
5       90     62     1.0    1423   206.96    0  0  5
6     1631.   11.18
7      748.   13.86
8       90     38     1.0     748   206.96    0  0  5
9      524.   13.86
10    1467.   13.86
11      90     38     1.0    1467   206.96    0  0  5
12    1259.   13.86
```

JOB: STALBAN TOWER PR AM W&M

RUN: STALBAN TOWER PROP. MORNING

==========
General Information
==========

Run start date: 1/ 1/ 1 Julian: 1
end date: 12/31/ 1 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 64
Upper Air Sta. Id & Yr = 99999 64

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

	LINK DESCRIPTION	LINK COORDINATES (FT) X1	Y1	X2	Y2	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1.	W&M NB APPR	17.0	-38.0	17.0	303.0	341.	360.	AG	.0	50.0	
2.	W&M NB QUEUE	17.0	303.0	17.0	-38.0	341.	180.	AG	.0	30.0	3
3.	W&M NB DEP	17.0	303.0	54.0	520.0	220.	10.	AG	.0	50.0	
4.	W&M SB APPR	23.0	569.0	4.0	435.0	135.	188.	AG	.0	55.0	
5.	W&M SB QUEUE	4.0	435.0	23.0	569.0	135.	8.	AG	.0	35.0	3
6.	W&M SB DEP	4.0	435.0	-17.0	38.0	398.	183.	AG	.0	55.0	
7.	W&M WB APPR	448.0	-34.0	53.0	378.0	571.	316.	AG	.0	50.0	
8.	W&M WB QUEUE	53.0	378.0	448.0	-34.0	571.	136.	AG	.0	30.0	3
9.	W&M WB DEP	53.0	378.0	-116.0	510.0	214.	308.	AG	.0	50.0	
10.	W&M EB APPR	-238.0	588.0	-29.0	364.0	306.	137.	AG	.0	50.0	
11.	W&M EB QUEUE	-29.0	364.0	-238.0	588.0	306.	317.	AG	.0	30.0	3
12.	W&M EB DEP	-29.0	364.0	448.0	-34.0	621.	130.	AG	.0	50.0	

JOB: STALBAN TOWER PR AM W&M

RUN: STALBAN TOWER PROP. MORNING

Receptor Data

	RECEPTOR	*	COORDINATES (FT) X	Y	Z
1.	REC 2	*	-50.0	-36.0	26.5
2.	REC 3	*	50.0	-52.0	26.5
3.	REC 4	*	310.0	-52.0	7.0
4.	REC 5	*	258.0	36.0	7.2
5.	REC 6	*	50.0	36.0	26.5
6.	REC 7	*	-50.0	52.0	26.5
7.	REC 9	*	-50.0	-36.0	26.5
8.	REC 10	*	-50.0	330.0	27.0
9.	REC 11	*	82.0	425.0	26.5
10.	REC 12	*	-15.0	588.0	32.4
11.	REC 13	*	-90.0	588.0	32.4

Model Results

Remarks : In search of the wind direction corresponding
to the maximum concentration, only the first
direction, of the directions with the same maximum
concentrations, is indicated as the maximum.

	* MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED (PPM)									
	* REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG	* .9	.8	1.1	1.4	1.1	1.1	.9	1.5	1.3	2.2
- BKG	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	* .9	.8	1.1	1.4	1.1	1.1	.9	1.5	1.3	2.2
WIND DIR	* 9	355	328	328	348	12	9	138	328	168
JULIAN	* 273	192	154	154	288	7	273	158	154	22
HOUR	* 5	7	1	1	20	12	5	22	1	9

	* REC11
MAX+BKG	* 1.6
- BKG	* .0
MAX	* 1.6
WIND DIR	* 151
JULIAN	* 258
HOUR	* 8

JOB: STALBAN TOWER PR AM W&M

RUN: STALBAN TOWER PROP. MORNING

THE HIGHEST CONCENTRATION OF 2.20 PPM OCCURRED AT RECEPTOR REC10.

JOB: STALBAN TOWER PR AM W&M

RUN: STALBAN TOWER PROP. MORNING

==========
Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.43	(273, 6)	C 0	.39	(260, 6)	C 1
2	.30	(274, 3)	C 1	.29	(212, 2)	C 1
3	.31	(164, 3)	C 1	.30	(258, 5)	C 2
4	.47	(178, 3)	C 1	.46	(154, 4)	C 1
5	.39	(274, 3)	C 1	.38	(273,11)	C 0
6	.49	(273, 6)	C 0	.47	(279, 8)	C 2
7	.43	(273, 6)	C 0	.39	(260, 6)	C 1
8	.87	(270, 7)	C 2	.86	(110,21)	C 1
9	.75	(43, 7)	C 3	.73	(178, 4)	C 2
10	.93*	(161, 6)	C 1	.89*	(98, 5)	C 0
11	.74	(161, 4)	C 1	.63	(329, 7)	C 2

JOB: STALBAN TOWER PR AM W&M

RUN: STALBAN TOWER PROP. MORNING

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Conc	Highest Ending Day Hr	Highest Calm	Second Highest Conc	Second Highest Ending Day Hr	Second Highest Calm	Third Highest Conc	Third Highest Ending Day Hr	Third Highest Calm	Fourth Highest Conc	Fourth Highest Ending Day Hr	Fourth Highest Calm	Fifth Highest Conc	Fifth Highest Ending Day Hr	Fifth Highest Calm
1	.90	(273, 5)	C 0	.80	(41,14)	C 0	.80	(217,17)	C 0	.80	(50, 8)	C 0	.80	(285, 3)	C 0
2	.80	(192, 7)	C 0	.80	(211,24)	C 0	.80	(238,20)	C 0	.80	(288,20)	C 0	.80	(309,18)	C 0
3	1.10	(154, 1)	C 0	.70	(42,24)	C 0	.70	(163,24)	C 0	.50	(34, 5)	C 0	.50	(125,24)	C 0
4	1.40	(154, 1)	C 0	1.00	(177, 1)	C 0	1.00	(177,23)	C 0	.90	(42,24)	C 0	.90	(163,24)	C 0
5	1.10	(288,20)	C 0	1.10	(309,18)	C 0	1.00	(192, 7)	C 0	1.00	(238,20)	C 0	.90	(194,10)	C 0
6	1.10	(7,12)	C 0	1.10	(217,17)	C 0	1.00	(41,14)	C 0	.90	(7, 9)	C 0	.90	(50, 8)	C 0
7	.90	(273, 5)	C 0	.80	(41,14)	C 0	.80	(217,17)	C 0	.80	(50, 8)	C 0	.80	(285, 3)	C 0
8	1.50	(158,22)	C 0	1.40	(107, 3)	C 0	1.30	(41,14)	C 0	1.30	(180, 4)	C 0	1.30	(209, 5)	C 0
9	1.30	(154, 1)	C 0	1.20	(84,22)	C 0	1.20	(107, 7)	C 0	1.20	(158,20)	C 0	1.20	(164,22)	C 0
10	2.20*	(22, 9)	C 0	1.60*	(258, 8)	C 0	1.50	(48,18)	C 0	1.50	(54, 5)	C 0	1.50	(73, 5)	C 0
11	1.60	(258, 8)	C 0	1.40	(158,22)	C 0	1.30	(22, 9)	C 0	1.20	(128, 3)	C 0	1.20	(154,24)	C 0

JOB: STALBAN TOWER PR AM W&M

RUN: STALBAN TOWER PROP. MORNING

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	188	(7,13)(11, 5)(11,13)(21,24)(23,19)(29, 5)(31, 3)(31, 6)(34,24)(35, 6) (40,18)(42,23)(43, 5)(46, 2)(46,14)(48, 5)(54, 2)(54, 6)(56, 2)(59, 8) (62, 6)(62,23)(71,19)(72,23)(73, 4)(73, 8)(76, 8)(83, 4)(84,23)(85, 1) (105, 7)(110,18)(111,20)(125, 5)(126, 2)(126, 4)(132,21)(136, 8)(137, 4)(137, 6) (143,21)(144, 1)(154, 4)(154, 6)(156, 6)(158, 1)(160,24)(164, 1)(169, 6)(174, 4) (174,20)(175,21)(179, 6)(180, 5)(180,24)(182, 3)(182, 6)(184, 1)(188, 7)(188,24) (190, 2)(190,24)(191, 4)(191, 6)(192, 1)(192, 6)(193, 3)(193,23)(195,24)(198, 8) (199,20)(201,21)(201,24)(202, 2)(202, 5)(202,23)(203, 6)(204, 2)(204, 5)(204, 7) (205,22)(205,24)(206, 2)(206, 4)(210, 5)(212, 2)(214, 9)(214,21)(214,23)(215, 2) (215, 4)(215,21)(228,23)(230, 3)(233, 4)(238, 5)(239,22)(240, 2)(242, 3)(242,21) (242,23)(243, 1)(243,23)(244, 2)(244, 5)(246,22)(246,24)(247, 7)(248, 5)(250,22) (253,21)(255, 1)(257,24)(258, 3)(259,24)(260,21)(261, 1)(261, 6)(261, 8)(261,21) (261,24)(262, 3)(262, 7)(263, 1)(263, 3)(266, 4)(267, 3)(270, 1)(270, 5)(271,21) (273,14)(273,20)(276, 8)(277, 1)(280,23)(285, 8)(285,19)(288,19)(288,22)(289, 7) (289,18)(289,20)(289,24)(291,18)(292, 4)(292, 8)(294, 6)(297,23)(299, 4)(300, 6) (300, 8)(301, 4)(301, 7)(301,19)(302, 5)(306, 7)(306,15)(306,20)(307, 2)(308, 7) (308,22)(309,17)(311,19)(311,21)(312,18)(312,21)(314, 5)(315, 1)(319,11)(319,21) (320,20)(324,15)(329, 4)(329, 6)(336, 8)(338,21)(338,23)(339,11)(344,19)(344,21) (346, 8)(347, 5)(347,16)(356,19)(356,21)(357, 1)(357,23)(363,19)
2	55	(23,24)(24, 3)(29, 8)(36,18)(43, 3)(46, 6)(48,22)(49, 3)(102, 3)(111,24) (125,23)(136, 6)(139, 2)(139, 6)(156, 3)(157,21)(174,23)(193, 1)(196, 4)(198, 6) (198,23)(200,23)(203, 2)(203,22)(205, 1)(205, 5)(205, 8)(208,23)(222,24)(242, 6) (247, 3)(249,24)(250, 3)(250, 6)(250, 9)(261, 4)(262,20)(262,23)(272, 1)(279, 5) (281, 7)(286, 7)(288, 8)(289, 1)(299, 2)(301,23)(302, 2)(302,23)(306,23)(328,22) (329, 9)(344,24)(355,24)(356, 8)(361,10)
3	27	(18,23)(45,24)(49, 7)(53, 7)(102, 7)(107, 2)(144, 6)(160, 7)(180,22)(183, 2) (193, 7)(194, 3)(199,24)(202,21)(209, 4)(218, 3)(228, 7)(230, 7)(243, 6)(280, 5) (281, 3)(289, 5)(301, 2)(312, 7)(320, 4)(329,19)(356, 4)
4	12	(87,24)(170, 2)(198, 3)(209,24)(233, 1)(248, 1)(254,23)(269,23)(280, 1)(300,22) (312, 3)(320, 9)
5	12	(142,24)(143, 6)(147, 2)(169, 4)(178, 7)(188, 4)(189, 6)(228, 3)(254, 6)(286,23) (295, 1)(307, 8)
6	6	(59, 6)(199, 6)(238, 2)(259, 3)(288, 5)(298, 6)

```
          7               3         (229, 7)(286, 3)(310, 2)
          9               2         (220, 6)(252, 5)
         10               3         (253, 7)(305, 9)(309, 9)

Program terminated normally
```

```
'STALBAN TOWER PR PM W&M'    60.    175.    0.    0.   11  0.3048    1
1 1 01 12 31 01
99999    64    99999    64
0  0  'U'
'REC 2'      -50.      -36.    26.5
'REC 3'       50.      -52.    26.5
'REC 4'      310.      -52.    7.0
'REC 5'      258.       36.    7.2
'REC 6'       50.       36.    26.5
'REC 7'      -50.       52.    26.5
'REC 9'      -50.      -36.    26.5
'REC 10'     -50.     -330.    27.0
'REC 11'      82.      425.    26.5
'REC 12'     -15.      588.    32.4
'REC 13'     -90.      588.    32.4
1   'C'
1 1 1 1 1 1 1
'STALBAN TOWER PROP. EVENING'    12
1  1
'W&M NB APPR     '    'AG'        17.     -38.     17.      303.  0.    50.
2  2
'W&M NB QUEUE    '    'AG'        17.     303.     17.      -38.  0.    30.0    3
3  1
'W&M NB DEP      '    'AG'        17.     303.     54.      520.  0.    50.
4  1
'W&M SB APPR     '    'AG'        23.     569.      4.      435.  0.    55.
5  2
'W&M SB QUEUE    '    'AG'         4.     435.     23.      569.  0.    35.0    3
6  1
'W&M SB DEP      '    'AG'         4.     435.    -17.       38.  0.    55.
7  1
'W&M WB APPR     '    'AG'       448.     -34.     53.      378.  0.    50.
8  2
'W&M WB QUEUE    '    'AG'        53.     378.    448.      -34.  0.    30.0    3
9  1
'W&M WB DEP      '    'AG'        53.     378.   -116.      510.  0.    50.
10 1
'W&M EB APPR     '    'AG'      -238.     588.    -29.      364.  0.    50.
11 2
'W&M EB QUEUE    '    'AG'       -29.     364.   -238.      588.  0.    30.0    3
12 1
'W&M EB DEP      '    'AG'       -29.     364.    448.      -34.  0.    50.
01   0.0
1       985.    11.18
2        90      62      1.0      985    206.96     0  0  5
3      1331.    11.18
4       909.    11.18
5        90      62      1.0      909    206.96     0  0  5
6      1029.    11.18
7      1415.    13.86
8        90      38      1.0     1415    206.96     0  0  5
9      1067.    13.86
10      587.    13.86
11       90      38      1.0      587    206.96     0  0  5
12      469.    13.86
```

JOB: STALBAN TOWER PR PM W&M

RUN: STALBAN TOWER PROP. EVENING

==========
General Information
==========
Run start date: 1/ 1/ 1 Julian: 1
end date: 12/31/ 1 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 64
Upper Air Sta. Id & Yr = 99999 64

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

	LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1.	W&M NB APPR	*	17.0	-38.0	17.0	303.0	*	341.	360.	AG	.0	50.0	
2.	W&M NB QUEUE	*	17.0	303.0	17.0	-38.0	*	341.	180.	AG	.0	30.0	3
3.	W&M NB DEP	*	17.0	303.0	54.0	520.0	*	220.	10.	AG	.0	50.0	
4.	W&M SB APPR	*	23.0	569.0	4.0	435.0	*	135.	188.	AG	.0	55.0	
5.	W&M SB QUEUE	*	4.0	435.0	23.0	569.0	*	135.	8.	AG	.0	35.0	3
6.	W&M SB DEP	*	4.0	435.0	-17.0	38.0	*	398.	183.	AG	.0	55.0	
7.	W&M WB APPR	*	448.0	-34.0	53.0	378.0	*	571.	316.	AG	.0	50.0	
8.	W&M WB QUEUE	*	53.0	378.0	448.0	-34.0	*	571.	136.	AG	.0	30.0	3
9.	W&M WB DEP	*	53.0	378.0	-116.0	510.0	*	214.	308.	AG	.0	50.0	
10.	W&M EB APPR	*	-238.0	588.0	-29.0	364.0	*	306.	137.	AG	.0	50.0	
11.	W&M EB QUEUE	*	-29.0	364.0	-238.0	588.0	*	306.	317.	AG	.0	30.0	3
12.	W&M EB DEP	*	-29.0	364.0	448.0	-34.0	*	621.	130.	AG	.0	50.0	

JOB: STALBAN TOWER PR PM W&M

RUN: STALBAN TOWER PROP. EVENING

Receptor Data

RECEPTOR	COORDINATES (FT) X	Y	Z
1. REC 2	-50.0	-36.0	26.5
2. REC 3	50.0	-52.0	26.5
3. REC 4	310.0	-52.0	7.0
4. REC 5	258.0	36.0	7.2
5. REC 6	50.0	36.0	26.5
6. REC 7	-50.0	52.0	26.5
7. REC 9	-50.0	-36.0	26.5
8. REC 10	-50.0	-330.0	27.0
9. REC 11	82.0	425.0	26.5
10. REC 12	-15.0	588.0	32.4
11. REC 13	-90.0	588.0	32.4

Model Results

Remarks : In search of the wind direction corresponding
to the maximum concentration, only the first
direction, of the directions with the same maximum
concentrations, is indicated as the maximum.

* MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED
* (PPM)

*	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG *	.8	.7	.7	1.1	1.0	1.2	.8	.4	1.3	2.3
- BKG *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX *	.8	.7	.7	1.1	1.0	1.2	.8	.4	1.3	2.3
WIND DIR *	19	355	328	328	1	20	19	5	198	168
JULIAN *	41	192	154	154	194	209	41	137	146	22
HOUR *	14	7	1	1	10	5	14	21	21	9

*	REC11
MAX+BKG *	1.6
- BKG *	.0
MAX *	1.6
WIND DIR *	151
JULIAN *	258
HOUR *	8

THE HIGHEST CONCENTRATION OF 2.30 PPM OCCURRED AT RECEPTOR REC10.

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Ending Day Hr	Calm	Second highest Conc	Ending Day Hr	Calm
1	.46	(260, 6)	C 1	.44	(273, 6)	C 0
2	.34	(273,23)	C 1	.34	(273, 8)	C 0
3	.25	(309,20)	C 2	.24	(273,11)	C 0
4	.37	(154, 4)	C 1	.36	(258, 9)	C 1
5	.44	(273, 8)	C 0	.39	(273,24)	C 1
6	.63	(260, 6)	C 1	.51	(157, 5)	C 0
7	.46	(260, 6)	C 1	.44	(273, 6)	C 0
8	.10	(273, 6)	C 0	.08	(138, 3)	C 0
9	.73	(178, 4)	C 2	.72	(43, 7)	C 3
10	.84*	(161, 6)	C 1	.81*	(98, 5)	C 0
11	.63	(270, 7)	C 2	.61	(267, 5)	C 1

JOB: STALBAN TOWER PR PM W&M

RUN: STALBAN TOWER PROP. EVENING

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr	Highest Ending			Second Highest Ending			Third Highest Ending			Fourth Highest Ending			Fifth Highest Ending		
No.	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm
1	.80	(41,14)	C 0	.80	(209, 5)	C 0	.80	(7,12)	C 0	.80	(273, 5)	C 0	.70	(50, 8)	C 0
2	.70	(192, 7)	C 0	.70	(238,20)	C 0	.70	(288,20)	C 0	.70	(309,18)	C 0	.60	(50, 8)	C 0
3	.70	(154, 1)	C 0	.60	(177, 1)	C 0	.60	(247, 1)	C 0	.50	(7,20)	C 0	.50	(42,24)	C 0
4	1.10	(154, 1)	C 0	.70	(34, 5)	C 0	.70	(125,24)	C 0	.70	(163,22)	C 0	.70	(258, 5)	C 0
5	1.00	(194,10)	C 0	1.00	(192, 7)	C 0	1.00	(238,20)	C 0	1.00	(309,18)	C 0	.80	(137,21)	C 0
6	1.20	(209, 5)	C 0	1.10	(41,14)	C 0	1.10	(217,17)	C 0	1.10	(7,12)	C 0	1.00	(180, 4)	C 0
7	.80	(41,14)	C 0	.80	(209, 5)	C 0	.80	(7,12)	C 0	.80	(273, 5)	C 0	.70	(50, 8)	C 0
8	.40	(137,21)	C 0	.40	(361, 6)	C 0	.30	(50, 8)	C 0	.30	(273, 5)	C 0	.30	(285, 3)	C 0
9	1.30	(146,21)	C 0	1.20	(43, 7)	C 0	1.20	(48, 7)	C 0	1.20	(84,22)	C 0	1.20	(98, 1)	C 0
10	2.30*	(22, 9)	C 0	1.60*	(111,19)	C 0	1.60	(129, 3)	C 0	1.60	(153,24)	C 0	1.60	(258, 8)	C 0
11	1.60	(258, 8)	C 0	1.40	(158,22)	C 0	1.10	(97,22)	C 0	1.10	(110,15)	C 0	1.10	(193, 4)	C 0

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	188	(7,13)(11, 5)(11,13)(21,24)(23,19)(29, 5)(31, 3)(31, 6)(34,24)(35, 6) (40,18)(42,23)(43, 5)(46, 2)(46,14)(48, 5)(54, 2)(54, 6)(56, 2)(59, 8) (62, 6)(62,23)(71,19)(72,23)(73, 4)(73, 8)(76, 8)(83, 4)(84,23)(85, 1) (105, 7)(110,18)(111,20)(125, 5)(126, 2)(126, 4)(132,21)(136, 8)(137, 4)(137, 6) (143,21)(144, 1)(154, 4)(154, 6)(156, 6)(158, 1)(160,24)(164, 1)(169, 6)(174, 4) (174,20)(175,21)(179, 6)(180, 5)(180,24)(182, 3)(182, 6)(184, 1)(188, 7)(188,24) (190, 2)(190,24)(191, 4)(191, 6)(192, 1)(192, 6)(193, 3)(193,23)(195,24)(198, 8) (199,20)(201,21)(201,24)(202, 2)(202, 5)(202,23)(203, 6)(204, 2)(204, 5)(204, 7) (205,22)(205,24)(206, 2)(206, 4)(210, 5)(212, 2)(214, 9)(214,21)(214,23)(215, 2) (215, 4)(215,21)(228,23)(230, 3)(233, 4)(238, 5)(239,22)(240, 2)(242, 3)(242,21) (242,23)(243, 1)(243,23)(244, 2)(244, 5)(246,22)(246,24)(247, 7)(248, 5)(250,22) (253,21)(255, 1)(257,24)(258, 3)(259,24)(260,21)(261, 1)(261, 6)(261, 8)(261,21) (261,24)(262, 3)(262, 7)(263, 1)(263, 3)(266, 4)(267, 3)(270, 1)(270, 5)(271,21) (273,14)(273,20)(276, 8)(277, 1)(280,23)(285, 8)(285,19)(288,19)(288,22)(289, 7) (289,18)(289,20)(289,24)(291,18)(292, 4)(292, 8)(294, 6)(297,23)(299, 4)(300, 6) (300, 8)(301, 4)(301, 7)(301,19)(302, 5)(306, 7)(306,15)(306,20)(307, 2)(308, 7) (308,22)(309,17)(311,19)(311,21)(312,18)(312,21)(314, 5)(315, 1)(319,11)(319,21) (320,20)(324,15)(329, 4)(329, 6)(336, 8)(338,21)(338,23)(339,11)(344,19)(344,21) (346, 8)(347, 5)(347,16)(356,19)(356,21)(357, 1)(357,23)(363,19)
2	55	(23,24)(24, 3)(29, 8)(36,18)(43, 3)(46, 6)(48,22)(49, 3)(102, 3)(111,24) (125,23)(136, 6)(139, 2)(139, 6)(156, 3)(157,21)(174,23)(193, 1)(196, 4)(198, 6) (198,23)(200,23)(203, 2)(203,22)(205, 1)(205, 5)(205, 8)(208,23)(222,24)(242, 6) (247, 3)(249,24)(250, 3)(250, 6)(250, 9)(261, 4)(262,20)(262,23)(272, 1)(279, 5) (281, 7)(286, 7)(288, 8)(289, 1)(299, 2)(301,23)(302, 2)(302,23)(306,23)(328,22) (329, 9)(344,24)(355,24)(356, 8)(361,10)
3	27	(18,23)(45,24)(49, 7)(53, 7)(102, 7)(107, 2)(144, 6)(160, 7)(180,22)(183, 2) (193, 7)(194, 3)(199,24)(202,21)(209, 4)(218, 3)(228, 7)(230, 7)(243, 6)(280, 5) (281, 3)(289, 5)(301, 2)(312, 7)(320, 4)(329,19)(356, 4)
4	12	(87,24)(170, 2)(198, 3)(209,24)(233, 1)(248, 1)(254,23)(269,23)(280, 1)(300,22) (312, 3)(320, 9)
5	12	(142,24)(143, 6)(147, 2)(169, 4)(178, 7)(188, 4)(189, 6)(228, 3)(254, 6)(286,23) (295, 1)(307, 8)
6	6	(59, 6)(199, 6)(238, 2)(259, 3)(288, 5)(298, 6)

```
          7               3         (229, 7)(286, 3)(310, 2)
          9               2         (220, 6)(252, 5)
         10               3         (253, 7)(305, 9)(309, 9)

Program terminated normally
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(MASSACHUSETTS AVE. & CATHEDRAL AVE., NW)

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'REC 9'      -50.      -36.    26.5
'REC 10'     -50.      330.    27.0
'REC 11'      82.      425.    26.5
'REC 12'     -15.      588.    32.4
'REC 13'     -90.      588.    26.4
'REC 14'    -226.      496.    31.3
'REC 15'    -354.      496.    27.0
1   'C'
1 1 1 1 1 1 1
'STALBAN TOWER EXIST MORNING'    9
1  1
'M&C  NB APPR    '    'AG'        53.     378.  -116.      510.  0.    50.
2  2
'M&C  NB QUEUE   '    'AG'      -116.     510.    53.      378.  0.    30.0   3
3  1
'M&C  NB DEP     '    'AG'      -116.     510.  -896.     1267.  0.    50.
4  1
'M&C SB APPR     '    'AG'      -925     1236.  -238.      588.  0.    50.
5  2
'M&C SB QUEUE    '    'AG'      -238.     588.  -925.     1236.  0.    30.0   3
6  1
'M&C SB DEP      '    'AG'      -238.     588.   -29.      364.  0.    50.
7  1
'M&C WB APPR     '    'AG'        -1.     558.  -120.      559.  0.    35.
8  2
'M&C WB QUEUE    '    'AG'      -120.     559.    -1.      558.  0.    15.0   1
9  1
'M&C WB DEP      '    'AG'      -120.     559.   557.       23.  0.    35.
01   0.0
1       524.    13.86
2       90      21      1.0     524    206.96    0  0  5
3       518.    13.86
4      1473.    11.18
5       90      34      1.0    1473    206.96    0  0  5
6      1467.    11.18
7        70.    17.89
8       90      85      1.0      70    206.96    0  0  5
9        82.    17.89
```

JOB: STALBAN TOWER EX AM M&C

RUN: STALBAN TOWER EXIST MORNING

General Information

Run start date: 1/ 1/ 1 Julian: 1
end date: 12/31/ 1 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 64
Upper Air Sta. Id & Yr = 99999 64

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1. M&C NB APPR	*	53.0	378.0	-116.0	510.0	*	214.	308.	AG	.0	50.0	
2. M&C NB QUEUE	*	-116.0	510.0	53.0	378.0	*	214.	128.	AG	.0	30.0	3
3. M&C NB DEP	*	-116.0	510.0	-896.0	1267.0	*	1087.	314.	AG	.0	50.0	
4. M&C SB APPR	*	-925.0	1236.0	-238.0	588.0	*	944.	133.	AG	.0	50.0	
5. M&C SB QUEUE	*	-238.0	588.0	-925.0	1236.0	*	944.	313.	AG	.0	30.0	3
6. M&C SB DEP	*	-238.0	588.0	-29.0	364.0	*	306.	137.	AG	.0	50.0	
7. M&C WB APPR	*	-1.0	558.0	-120.0	559.0	*	119.	270.	AG	.0	35.0	
8. M&C WB QUEUE	*	-120.0	559.0	-1.0	558.0	*	119.	90.	AG	.0	15.0	1
9. M&C WB DEP	*	-120.0	559.0	557.0	23.0	*	863.	128.	AG	.0	35.0	

JOB: STALBAN TOWER EX AM M&C

RUN: STALBAN TOWER EXIST MORNING

Receptor Data

RECEPTOR	COORDINATES (FT) X	Y	Z
1. REC 4	310.0	-52.0	7.0
2. REC 5	258.0	36.0	7.2
3. REC 6	50.0	36.0	26.5
4. REC 9	-50.0	-36.0	26.5
5. REC 10	-50.0	330.0	27.0
6. REC 11	82.0	425.0	26.5
7. REC 12	-15.0	588.0	32.4
8. REC 13	-90.0	588.0	26.4
9. REC 14	-226.0	496.0	31.3
10. REC 15	-354.0	496.0	27.0

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED (PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG	.1	.2	.3	.1	.6	.5	.7	.6	.7	.4
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.1	.2	.3	.1	.6	.5	.7	.6	.7	.4
WIND DIR	313	316	328	328	328	291	228	168	328	34
JULIAN	177	34	154	154	154	23	159	22	154	89
HOUR	24	5	1	1	1	20	20	9	1	22

THE HIGHEST CONCENTRATION OF .70 PPM OCCURRED AT RECEPTOR REC9 .

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.03	(178, 4)	C 2	.02	(292, 8)	C 2
2	.03	(125,24)	C 2	.03	(154, 6)	C 2
3	.05	(154, 6)	C 2	.03	(247, 1)	C 2
4	.02	(154, 6)	C 2	.02	(178, 4)	C 2
5	.26	(178, 3)	C 1	.23	(305, 1)	C 2
6	.25	(79, 4)	C 0	.23	(292, 8)	C 2
7	.33	(314, 1)	C 0	.32	(181, 5)	C 2
8	.38*	(98, 4)	C 0	.38*	(22, 9)	C 0
9	.27	(154, 7)	C 2	.26	(258, 9)	C 1
10	.28	(262, 5)	C 2	.23	(260, 7)	C 1

JOB: STALBAN TOWER EX AM M&C

RUN: STALBAN TOWER EXIST MORNING

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Conc	Ending Day Hr	Calm	Second Highest Conc	Ending Day Hr	Calm	Third Highest Conc	Ending Day Hr	Calm	Fourth Highest Conc	Ending Day Hr	Calm	Fifth Highest Conc	Ending Day Hr	Calm
1	.10	(177,24)	C 0	.10	(178, 1)	C 0	.10	(292, 5)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
2	.20	(34, 5)	C 0	.20	(125,24)	C 0	.20	(154, 1)	C 0	.20	(163,22)	C 0	.20	(258, 5)	C 0
3	.30	(154, 1)	C 0	.20	(174, 5)	C 0	.20	(247, 1)	C 0	.10	(7,20)	C 0	.10	(42,24)	C 0
4	.10	(154, 1)	C 0	.10	(174, 5)	C 0	.10	(177,23)	C 0	.10	(192, 7)	C 0	.10	(238,20)	C 0
5	.60	(154, 1)	C 0	.50	(42,24)	C 0	.50	(163,24)	C 0	.50	(174, 5)	C 0	.50	(177, 1)	C 0
6	.50	(23,20)	C 0	.50	(27,20)	C 0	.50	(35, 2)	C 0	.50	(43, 1)	C 0	.50	(79, 1)	C 0
7	.70	(159,20)	C 0	.50	(27, 7)	C 0	.50	(45,20)	C 0	.50	(48, 4)	C 0	.50	(128, 5)	C 0
8	.60	(22, 9)	C 0	.60	(107, 3)	C 0	.60	(158,22)	C 0	.60	(258, 8)	C 0	.50	(7,21)	C 0
9	.70	(154, 1)	C 0	.60	(247, 1)	C 0	.50	(7,20)	C 0	.50	(42,24)	C 0	.50	(163,24)	C 0
10	.40	(89,22)	C 0	.40	(261,22)	C 0	.40	(262, 2)	C 0	.40	(279, 3)	C 0	.30	(41,14)	C 0

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	188	(7,13)(11, 5)(11,13)(21,24)(23,19)(29, 5)(31, 3)(31, 6)(34,24)(35, 6) (40,18)(42,23)(43, 5)(46, 2)(46,14)(48, 5)(54, 2)(54, 6)(56, 2)(59, 8) (62, 6)(62,23)(71,19)(72,23)(73, 4)(73, 8)(76, 8)(83, 4)(84,23)(85, 1) (105, 7)(110,18)(111,20)(125, 5)(126, 2)(126, 4)(132,21)(136, 8)(137, 4)(137, 6) (143,21)(144, 1)(154, 4)(154, 6)(156, 6)(158, 1)(160,24)(164, 1)(169, 6)(174, 4) (174,20)(175,21)(179, 6)(180, 5)(180,24)(182, 3)(182, 6)(184, 1)(188, 7)(188,24) (190, 2)(190,24)(191, 4)(191, 6)(192, 1)(192, 6)(193, 3)(193,23)(195,24)(198, 8) (199,20)(201,21)(201,24)(202, 2)(202, 5)(202,23)(203, 6)(204, 2)(204, 5)(204, 7) (205,22)(205,24)(206, 2)(206, 4)(210, 5)(212, 2)(214, 9)(214,21)(214,23)(215, 2) (215, 4)(215,21)(228,23)(230, 3)(233, 4)(238, 5)(239,22)(240, 2)(242, 3)(242,21) (242,23)(243, 1)(243,23)(244, 2)(244, 5)(246,22)(246,24)(247, 7)(248, 5)(250,22) (253,21)(255, 1)(257,24)(258, 3)(259,24)(260,21)(261, 1)(261, 6)(261, 8)(261,21) (261,24)(262, 3)(262, 7)(263, 1)(263, 3)(266, 4)(267, 3)(270, 1)(270, 5)(271,21) (273,14)(273,20)(276, 8)(277, 1)(280,23)(285, 8)(285,19)(288,19)(288,22)(289, 7) (289,18)(289,20)(289,24)(291,18)(292, 4)(292, 8)(294, 6)(297,23)(299, 4)(300, 6) (300, 8)(301, 4)(301, 7)(301,19)(302, 5)(306, 7)(306,15)(306,20)(307, 2)(308, 7) (308,22)(309,17)(311,19)(311,21)(312,18)(312,21)(314, 5)(315, 1)(319,11)(319,21) (320,20)(324,15)(329, 4)(329, 6)(336, 8)(338,21)(338,23)(339,11)(344,19)(344,21) (346, 8)(347, 5)(347,16)(356,19)(356,21)(357, 1)(357,23)(363,19)
2	55	(23,24)(24, 3)(29, 8)(36,18)(43, 3)(46, 6)(48,22)(49, 3)(102, 3)(111,24) (125,23)(136, 6)(139, 2)(139, 6)(156, 3)(157,21)(174,23)(193, 1)(196, 4)(198, 6) (198,23)(200,23)(203, 2)(203,22)(205, 1)(205, 5)(205, 8)(208,23)(222,24)(242, 6) (247, 3)(249,24)(250, 3)(250, 6)(250, 9)(261, 4)(262,20)(262,23)(272, 1)(279, 5) (281, 7)(286, 7)(288, 8)(289, 1)(299, 2)(301,23)(302, 2)(302,23)(306,23)(328,22) (329, 9)(344,24)(355,24)(356, 8)(361,10)
3	27	(18,23)(45,24)(49, 7)(53, 7)(102, 7)(107, 2)(144, 6)(160, 7)(180,22)(183, 2) (193, 7)(194, 3)(199,24)(202,21)(209, 4)(218, 3)(228, 7)(230, 7)(243, 6)(280, 5) (281, 3)(289, 5)(301, 2)(312, 7)(320, 4)(329,19)(356, 4)
4	12	(87,24)(170, 2)(198, 3)(209,24)(233, 1)(248, 1)(254,23)(269,23)(280, 1)(300,22) (312, 3)(320, 9)
5	12	(142,24)(143, 6)(147, 2)(169, 4)(178, 7)(188, 4)(189, 6)(228, 3)(254, 6)(286,23) (295, 1)(307, 8)
6	6	(59, 6)(199, 6)(238, 2)(259, 3)(288, 5)(298, 6)

```
          7               3         (229,  7) (286,  3) (310,  2)
          9               2         (220,  6) (252,  5)
         10               3         (253,  7) (305,  9) (309,  9)

Program terminated normally
```

```
'STALBAN TOWER EX PM M&C'   60.   175.   0.   0.  10  0.3048   1
1 1 01 12 31 01
99999   64   99999   64
0  0  'U'
'REC 4'      310.      -52.   7.0
'REC 5'      258.       36.   7.2
'REC 6'       50.       36.   26.5
'REC 9'      -50.      -36.   26.5
'REC 10'     -50.      330.   27.0
'REC 11'      82.      425.   26.5
'REC 12'     -15.      588.   32.4
'REC 13'     -90.      588.   26.4
'REC 14'    -226.      496.   31.3
'REC 15'    -354.      496.   27.0
1  'C'
1 1 1 1 1 1 1
'STALBAN TOWER EXIST EVENING'   9
1  1
'M&C  NB APPR    '   'AG'       53.    378.  -116.     510.  0.   50.
2  2
'M&C  NB QUEUE   '   'AG'     -116.    510.    53.     378.  0.   30.0   3
3  1
'M&C  NB DEP     '   'AG'     -116.    510.  -896.    1267.  0.   50.
4  1
'M&C SB APPR     '   'AG'     -925    1236.  -238.     588.  0.   50.
5  2
'M&C SB QUEUE    '   'AG'     -238.    588.  -925.    1236.  0.   30.0   3
6  1
'M&C SB DEP      '   'AG'     -238.    588.   -29.     364.  0.   50.
7  1
'M&C WB APPR     '   'AG'       -1.    558.  -120.     559.  0.   35.
8  2
'M&C WB QUEUE    '   'AG'     -120.    559.    -1.     558.  0.   15.0   1
9  1
'M&C WB DEP      '   'AG'     -120.    559.   557.      23.  0.   35.
01   0.0
1     1067.   11.18
2      90     21     1.0    1067   206.96    0  0  5
3     1057.   11.18
4      586.   13.86
5      90     34     1.0     586   206.96    0  0  5
6      587.   13.86
7       81.   17.89
8      90     85     1.0      81   206.96    0  0  5
9       90.   17.89
```

JOB: STALBAN TOWER EX PM M&C

RUN: STALBAN TOWER EXIST EVENING

General Information

Run start date: 1/ 1/ 1 Julian: 1
end date: 12/31/ 1 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 64
Upper Air Sta. Id & Yr = 99999 64

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

	LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1.	M&C NB APPR	*	53.0	378.0	-116.0	510.0	*	214.	308.	AG	.0	50.0	
2.	M&C NB QUEUE	*	-116.0	510.0	53.0	378.0	*	214.	128.	AG	.0	30.0	3
3.	M&C NB DEP	*	-116.0	510.0	-896.0	1267.0	*	1087.	314.	AG	.0	50.0	
4.	M&C SB APPR	*	-925.0	1236.0	-238.0	588.0	*	944.	133.	AG	.0	50.0	
5.	M&C SB QUEUE	*	-238.0	588.0	-925.0	1236.0	*	944.	313.	AG	.0	30.0	3
6.	M&C SB DEP	*	-238.0	588.0	-29.0	364.0	*	306.	137.	AG	.0	50.0	
7.	M&C WB APPR	*	-1.0	558.0	-120.0	559.0	*	119.	270.	AG	.0	35.0	
8.	M&C WB QUEUE	*	-120.0	559.0	-1.0	558.0	*	119.	90.	AG	.0	15.0	1
9.	M&C WB DEP	*	-120.0	559.0	557.0	23.0	*	863.	128.	AG	.0	35.0	

JOB: STALBAN TOWER EX PM M&C

RUN: STALBAN TOWER EXIST EVENING

Receptor Data

RECEPTOR	COORDINATES (FT) X	Y	Z
1. REC 4	310.0	-52.0	7.0
2. REC 5	258.0	36.0	7.2
3. REC 6	50.0	36.0	26.5
4. REC 9	-50.0	-36.0	26.5
5. REC 10	-50.0	330.0	27.0
6. REC 11	82.0	425.0	26.5
7. REC 12	-15.0	588.0	32.4
8. REC 13	-90.0	588.0	26.4
9. REC 14	-226.0	496.0	31.3
10. REC 15	354.0	496.0	27.0

Model Results

Remarks : In search of the wind direction corresponding
to the maximum concentration, only the first
direction, of the directions with the same maximum
concentrations, is indicated as the maximum.

MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED (PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG	.1	.2	.1	.1	.6	.5	.8	.7	.6	.4
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.1	.2	.1	.1	.6	.5	.8	.7	.6	.4
WIND DIR	314	328	324	328	328	291	228	168	80	80
JULIAN	292	154	42	154	154	23	159	22	306	306
HOUR	5	1	24	1	1	20	20	9	24	24

THE HIGHEST CONCENTRATION OF .80 PPM OCCURRED AT RECEPTOR REC7 .

JOB: STALBAN TOWER EX PM M&C

RUN: STALBAN TOWER EXIST EVENING

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.02	(292, 8)	C 2	.00	(1, 0)	C 0
2	.03	(154, 6)	C 2	.03	(178, 4)	C 2
3	.02	(43, 2)	C 2	.02	(154, 6)	C 2
4	.02	(154, 6)	C 2	.00	(1, 0)	C 0
5	.20	(273,11)	C 0	.16	(154, 4)	C 1
6	.20	(79, 4)	C 0	.19	(292, 6)	C 1
7	.32	(181, 5)	C 2	.25	(313,23)	C 0
8	.41*	(161, 4)	C 1	.41*	(22, 9)	C 0
9	.20	(307, 1)	C 3	.20	(306, 8)	C 1
10	.18	(262, 5)	C 2	.14	(234, 3)	C 0

JOB: STALBAN TOWER EX PM M&C

RUN: STALBAN TOWER EXIST EVENING

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Conc	Highest Ending Day Hr	Highest Calm	Second Highest Conc	Second Highest Ending Day Hr	Second Highest Calm	Third Highest Conc	Third Highest Ending Day Hr	Third Highest Calm	Fourth Highest Conc	Fourth Highest Ending Day Hr	Fourth Highest Calm	Fifth Highest Conc	Fifth Highest Ending Day Hr	Fifth Highest Calm
1	.10	(292, 5)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
2	.20	(154, 1)	C 0	.10	(34, 5)	C 0	.10	(125,24)	C 0	.10	(163,22)	C 0	.10	(177, 1)	C 0
3	.10	(42,24)	C 0	.10	(154, 1)	C 0	.10	(163,24)	C 0	.10	(174, 5)	C 0	.10	(177,23)	C 0
4	.10	(154, 1)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.60	(154, 1)	C 0	.50	(7,20)	C 0	.50	(211,24)	C 0	.40	(110, 2)	C 0	.40	(153, 3)	C 0
6	.50	(23,20)	C 0	.50	(105,22)	C 0	.50	(201, 1)	C 0	.40	(27,20)	C 0	.40	(35, 2)	C 0
7	.80*	(159,20)	C 0	.50	(27, 7)	C 0	.50	(128, 5)	C 0	.50	(155, 5)	C 0	.50	(182, 4)	C 0
8	.70	(22, 9)	C 0	.70*	(158,22)	C 0	.60	(7,21)	C 0	.60	(24, 1)	C 0	.60	(43, 7)	C 0
9	.60	(306,24)	C 0	.50	(154, 1)	C 0	.40	(211,24)	C 0	.40	(288, 9)	C 0	.40	(288,20)	C 0
10	.40	(306,24)	C 0	.30	(102, 8)	C 0	.30	(138, 2)	C 0	.30	(160,22)	C 0	.30	(233,22)	C 0

JOB: STALBAN TOWER EX PM M&C

RUN: STALBAN TOWER EXIST EVENING

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	188	(7,13)(11, 5)(11,13)(21,24)(23,19)(29, 5)(31, 3)(31, 6)(34,24)(35, 6) (40,18)(42,23)(43, 5)(46, 2)(46,14)(48, 5)(54, 2)(54, 6)(56, 2)(59, 8) (62, 6)(62,23)(71,19)(72,23)(73, 4)(73, 8)(76, 8)(83, 4)(84,23)(85, 1) (105, 7)(110,18)(111,20)(125, 5)(126, 2)(126, 4)(132,21)(136, 8)(137, 4)(137, 6) (143,21)(144, 1)(154, 4)(154, 6)(156, 6)(158, 1)(160,24)(164, 1)(169, 6)(174, 4) (174,20)(175,21)(179, 6)(180, 5)(180,24)(182, 3)(182, 6)(184, 1)(188, 7)(188,24) (190, 2)(190,24)(191, 4)(191, 6)(192, 1)(192, 6)(193, 3)(193,23)(195,24)(198, 8) (199,20)(201,21)(201,24)(202, 2)(202, 5)(202,23)(203, 6)(204, 2)(204, 5)(204, 7) (205,22)(205,24)(206, 2)(206, 4)(210, 5)(212, 2)(214, 9)(214,21)(214,23)(215, 2) (215, 4)(215,21)(228,23)(230, 3)(233, 4)(238, 5)(239,22)(240, 2)(242, 3)(242,21) (242,23)(243, 1)(243,23)(244, 2)(244, 5)(246,22)(246,24)(247, 7)(248, 5)(250,22) (253,21)(255, 1)(257,24)(258, 3)(259,24)(260,21)(261, 1)(261, 6)(261, 8)(261,21) (261,24)(262, 3)(262, 7)(263, 1)(263, 3)(266, 4)(267, 3)(270, 1)(270, 5)(271,21) (273,14)(273,20)(276, 8)(277, 1)(280,23)(285, 8)(285,19)(288,19)(288,22)(289, 7) (289,18)(289,20)(289,24)(291,18)(292, 4)(292, 8)(294, 6)(297,23)(299, 4)(300, 6) (300, 8)(301, 4)(301, 7)(301,19)(302, 5)(306, 7)(306,15)(306,20)(307, 2)(308, 7) (308,22)(309,17)(311,19)(311,21)(312,18)(312,21)(314, 5)(315, 1)(319,11)(319,21) (320,20)(324,15)(329, 4)(329, 6)(336, 8)(338,21)(338,23)(339,11)(344,19)(344,21) (346, 8)(347, 5)(347,16)(356,19)(356,21)(357, 1)(357,23)(363,19)
2	55	(23,24)(24, 3)(29, 8)(36,18)(43, 3)(46, 6)(48,22)(49, 3)(102, 3)(111,24) (125,23)(136, 6)(139, 2)(139, 6)(156, 3)(157,21)(174,23)(193, 1)(196, 4)(198, 6) (198,23)(200,23)(203, 2)(203,22)(205, 1)(205, 5)(205, 8)(208,23)(222,24)(242, 6) (247, 3)(249,24)(250, 3)(250, 6)(250, 9)(261, 4)(262,20)(262,23)(272, 1)(279, 5) (281, 7)(286, 7)(288, 8)(289, 1)(299, 2)(301,23)(302, 2)(302,23)(306,23)(328,22) (329, 9)(344,24)(355,24)(356, 8)(361,10)
3	27	(18,23)(45,24)(49, 7)(53, 7)(102, 7)(107, 2)(144, 6)(160, 7)(180,22)(183, 2) (193, 7)(194, 3)(199,24)(202,21)(209, 4)(218, 3)(228, 7)(230, 7)(243, 6)(280, 5) (281, 3)(289, 5)(301, 2)(312, 7)(320, 4)(329,19)(356, 4)
4	12	(87,24)(170, 2)(198, 3)(209,24)(233, 1)(248, 1)(254,23)(269,23)(280, 1)(300,22) (312, 3)(320, 9)
5	12	(142,24)(143, 6)(147, 2)(169, 4)(178, 7)(188, 4)(189, 6)(228, 3)(254, 6)(286,23) (295, 1)(307, 8)
6	6	(59, 6)(199, 6)(238, 2)(259, 3)(288, 5)(298, 6)

```
          7               3         (229, 7)(286, 3)(310, 2)
          9               2         (220, 6)(252, 5)
         10               3         (253, 7)(305, 9)(309, 9)

Program terminated normally
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```
'STALBAN TOWER PR AM M&C'   60.   175.   0.   0.  10  0.3048   1
1 1 01 12 31 01
99999   64   99999   64
0  0  'U'
'REC 4'      310.      -52.   7.0
'REC 5'      258.       36.   7.2
'REC 6'       50.       36.   26.5
'REC 9'      -50.      -36.   26.5
'REC 10'     -50.      330.   27.0
'REC 11'      82.      425.   26.5
'REC 12'     -15.      588.   32.4
'REC 13'     -90.      588.   26.4
'REC 14'    -226.      496.   31.3
'REC 15'    -354.      496.   27.0
1  'C'
1 1 1 1 1 1 1
'STALBAN TOWER PROP. MORNING'   9
1  1
'M&C  NB APPR    '   'AG'       53.    378.  -116.     510.  0.   50.
2  2
'M&C  NB QUEUE   '   'AG'     -116.    510.    53.     378.  0.   30.0   3
3  1
'M&C  NB DEP     '   'AG'     -116.    510.  -896.    1267.  0.   50.
4  1
'M&C SB APPR     '   'AG'     -925    1236.  -238.     588.  0.   50.
5  2
'M&C SB QUEUE    '   'AG'     -238.    588.  -925.    1236.  0.   30.0   3
6  1
'M&C SB DEP      '   'AG'     -238.    588.   -29.     364.  0.   50.
7  1
'M&C WB APPR     '   'AG'       -1.    558.  -120.     559.  0.   35.
8  2
'M&C WB QUEUE    '   'AG'     -120.    559.    -1.     558.  0.   15.0   1
9  1
'M&C WB DEP      '   'AG'     -120.    559.   557.      23.  0.   35.
01   0.0
1      524.   13.86
2       90     21     1.0     524   206.96    0  0  5
3      518.   13.86
4     1473.   11.18
5       90     34     1.0    1473   206.96    0  0  5
6     1467.   11.18
7       70.   17.89
8       90     85     1.0      70   206.96    0  0  5
9       82.   17.89
```

JOB: STALBAN TOWER PR AM M&C

RUN: STALBAN TOWER PROP. MORNING

General Information

Run start date: 1/ 1/ 1 Julian: 1
end date: 12/31/ 1 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 64
Upper Air Sta. Id & Yr = 99999 64

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	LINK COORDINATES (FT) X1	Y1	X2	Y2	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1. M&C NB APPR	53.0	378.0	-116.0	510.0	214.	308.	AG	.0	50.0	
2. M&C NB QUEUE	-116.0	510.0	53.0	378.0	214.	128.	AG	.0	30.0	3
3. M&C NB DEP	-116.0	510.0	-896.0	1267.0	1087.	314.	AG	.0	50.0	
4. M&C SB APPR	-925.0	1236.0	-238.0	588.0	944.	133.	AG	.0	50.0	
5. M&C SB QUEUE	-238.0	588.0	-925.0	1236.0	944.	313.	AG	.0	30.0	3
6. M&C SB DEP	-238.0	588.0	-29.0	364.0	306.	137.	AG	.0	50.0	
7. M&C WB APPR	-1.0	558.0	-120.0	559.0	119.	270.	AG	.0	35.0	
8. M&C WB QUEUE	-120.0	559.0	-1.0	558.0	119.	90.	AG	.0	15.0	1
9. M&C WB DEP	-120.0	559.0	557.0	23.0	863.	128.	AG	.0	35.0	

JOB: STALBAN TOWER PR AM M&C

RUN: STALBAN TOWER PROP. MORNING

Receptor Data

RECEPTOR	COORDINATES (FT) X	Y	Z
1. REC 4	310.0	-52.0	7.0
2. REC 5	258.0	36.0	7.2
3. REC 6	50.0	36.0	26.5
4. REC 9	-50.0	-36.0	26.5
5. REC 10	-50.0	330.0	27.0
6. REC 11	82.0	425.0	26.5
7. REC 12	-15.0	588.0	32.4
8. REC 13	-90.0	588.0	26.4
9. REC 14	-226.0	496.0	31.3
10. REC 15	-354.0	496.0	27.0

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKC) ADDED (PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG	.1	.2	.3	.1	.6	.5	.7	.6	.7	.4
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.1	.2	.3	.1	.6	.5	.7	.6	.7	.4
WIND DIR	313	316	328	328	328	291	228	168	328	34
JULIAN	177	34	154	154	154	23	159	22	154	89
HOUR	24	5	1	1	1	20	20	9	1	22

THE HIGHEST CONCENTRATION OF .70 PPM OCCURRED AT RECEPTOR REC9 .

JOB: STALBAN TOWER PR AM M&C

RUN: STALBAN TOWER PROP. MORNING

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.03	(178, 4)	C 2	.02	(292, 8)	C 2
2	.03	(125,24)	C 2	.03	(154, 6)	C 2
3	.05	(154, 6)	C 2	.03	(247, 1)	C 2
4	.02	(154, 6)	C 2	.02	(178, 4)	C 2
5	.26	(178, 3)	C 1	.23	(305, 1)	C 2
6	.25	(79, 4)	C 0	.23	(292, 8)	C 2
7	.33	(314, 1)	C 0	.32	(181, 5)	C 2
8	.38*	(98, 4)	C 0	.38*	(22, 9)	C 0
9	.27	(154, 7)	C 2	.26	(258, 9)	C 1
10	.28	(262, 5)	C 2	.23	(260, 7)	C 1

JOB: STALBAN TOWER PR AM M&C

RUN: STALBAN TOWER PROP. MORNING

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr	Highest			Second Highest			Third Highest			Fourth Highest			Fifth Highest		
No.	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm
1	.10	(177,24)	C 0	.10	(178, 1)	C 0	.10	(292, 5)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
2	.20	(34, 5)	C 0	.20	(125,24)	C 0	.20	(154, 1)	C 0	.20	(163,22)	C 0	.20	(258, 5)	C 0
3	.30	(154, 1)	C 0	.20	(174, 5)	C 0	.20	(247, 1)	C 0	.10	(7,20)	C 0	.10	(42,24)	C 0
4	.10	(154, 1)	C 0	.10	(174, 5)	C 0	.10	(177,23)	C 0	.10	(192, 7)	C 0	.10	(238,20)	C 0
5	.60	(154, 1)	C 0	.50	(42,24)	C 0	.50	(163,24)	C 0	.50	(174, 5)	C 0	.50	(177, 1)	C 0
6	.50	(23,20)	C 0	.50	(27,20)	C 0	.50	(35, 2)	C 0	.50	(43, 1)	C 0	.50	(79, 1)	C 0
7	.70	(159,20)	C 0	.50	(27, 7)	C 0	.50	(45,20)	C 0	.50	(43, 4)	C 0	.50	(128, 5)	C 0
8	.60	(22, 9)	C 0	.60*	(107, 3)	C 0	.60	(158,22)	C 0	.60	(258, 8)	C 0	.50	(7,21)	C 0
9	.70*	(154, 1)	C 0	.60	(247, 1)	C 0	.50	(7,20)	C 0	.50	(42,24)	C 0	.50	(163,24)	C 0
10	.40	(89,22)	C 0	.40	(261,22)	C 0	.40	(262, 2)	C 0	.40	(279, 3)	C 0	.30	(41,14)	C 0

JOB: STALBAN TOWER PR AM M&C

RUN: STALBAN TOWER PROP. MORNING

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	188	(7,13)(11, 5)(11,13)(21,24)(23,19)(29, 5)(31, 3)(31, 6)(34,24)(35, 6) (40,18)(42,23)(43, 5)(46, 2)(46,14)(48, 5)(54, 2)(54, 6)(56, 2)(59, 8) (62, 6)(62,23)(71,19)(72,23)(73, 4)(73, 8)(76, 8)(83, 4)(84,23)(85, 1) (105, 7)(110,18)(111,20)(125, 5)(126, 2)(126, 4)(132,21)(136, 8)(137, 4)(137, 6) (143,21)(144, 1)(154, 4)(154, 6)(156, 6)(158, 1)(160,24)(164, 1)(169, 6)(174, 4) (174,20)(175,21)(179, 6)(180, 5)(180,24)(182, 3)(182, 6)(184, 1)(188, 7)(188,24) (190, 2)(190,24)(191, 4)(191, 6)(192, 1)(192, 6)(193, 3)(193,23)(195,24)(198, 8) (199,10)(201,21)(201,24)(202, 2)(202, 5)(202,23)(203, 6)(204, 2)(204, 5)(204, 7) (205,22)(205,24)(206, 2)(206, 4)(210, 5)(212, 2)(214, 9)(214,21)(214,23)(215, 2) (215, 4)(215,21)(228,23)(230, 3)(233, 4)(238, 5)(239,22)(240, 2)(242, 3)(242,21) (242,23)(243, 1)(243,23)(244, 2)(244, 5)(246,22)(246,24)(247, 7)(248, 5)(250,22) (253,21)(255, 1)(257,24)(258, 3)(259,24)(260,21)(261, 1)(261, 6)(261, 8)(261,21) (261,24)(262, 3)(262, 7)(263, 1)(263, 3)(266, 4)(267, 3)(270, 1)(270, 5)(271,21) (273,14)(273,20)(276, 8)(277, 1)(280,23)(285, 8)(285,19)(288,19)(288,22)(289, 7) (289,18)(289,20)(289,24)(291,18)(292, 4)(292, 8)(294, 6)(297,23)(299, 4)(300, 6) (300, 8)(301, 4)(301, 7)(301,19)(302, 5)(306, 7)(306,15)(306,20)(307, 2)(308, 7) (308,22)(309,17)(311,19)(311,21)(312,18)(312,21)(314, 5)(315, 1)(319,11)(319,21) (320,20)(324,15)(329, 4)(329, 6)(336, 8)(338,21)(338,23)(339,11)(344,19)(344,21) (346, 8)(347, 5)(347,16)(356,19)(356,21)(357, 1)(357,23)(363,19)
2	55	(23,24)(24, 3)(29, 8)(36,18)(43, 3)(46, 6)(48,22)(49, 3)(102, 3)(111,24) (125,23)(136, 6)(139, 2)(139, 6)(156, 3)(157,21)(174,23)(193, 1)(196, 4)(198, 6) (198,23)(200,23)(203, 2)(203,22)(205, 1)(205, 5)(205, 8)(208,23)(222,24)(242, 6) (247, 3)(249,24)(250, 3)(250, 6)(250, 9)(261, 4)(262,20)(262,23)(272, 1)(279, 5) (281, 7)(286, 7)(288, 8)(289, 1)(299, 2)(301,23)(302, 2)(302,23)(306,23)(328,22) (329, 9)(344,24)(355,24)(356, 8)(361,10)
3	27	(18,23)(45,24)(49, 7)(53, 7)(102, 7)(107, 2)(144, 6)(160, 7)(180,22)(183, 2) (193, 7)(194, 3)(199,24)(202,21)(209, 4)(218, 3)(228, 7)(230, 7)(243, 6)(280, 5) (281, 3)(289, 5)(301, 2)(312, 7)(320, 4)(329,19)(356, 4)
4	12	(87,24)(170, 2)(198, 3)(209,24)(233, 1)(248, 1)(254,23)(269,23)(280, 1)(300,22) (312, 3)(320, 9)
5	12	(142,24)(143, 6)(147, 2)(169, 4)(178, 7)(188, 4)(189, 6)(228, 3)(254, 6)(286,23) (295, 1)(307, 8)

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         6              6        ( 59, 6)(199, 6)(238, 2)(259, 3)(288, 5)(298, 6)
         7              3        (229, 7)(286, 3)(310, 2)
         9              2        (220, 6)(252, 5)
        10              3        (253, 7)(305, 9)(309, 9)

Program terminated normally
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'STALBAN TOWER PR PM M&C'   60.   175.   0.   0.  10  0.3048   1
1 1 01 12 31 01
99999   64   99999   64
0  0  'U'
'REC 4'      310.      -52.    7.0
'REC 5'      258.       36.    7.2
'REC 6'       50.       36.   26.5
'REC 9'      -50.      -36.   26.5
'REC 10'     -50.      330.   27.0
'REC 11'      82.      425.   26.5
'REC 12'     -15.      588.   32.4
'REC 13'     -90.      588.   26.4
'REC 14'    -226.      496.   31.3
'REC 15'    -354.      496.   27.0
1  'C'
1 1 1 1 1 1 1
'STALBAN TOWER PROP. EVENING'   9
1  1
'M&C  NB APPR    '   'AG'       53.    378.  -116.     510.  0.   50.
2  2
'M&C  NB QUEUE   '   'AG'     -116.    510.    53.     378.  0.   30.0   3
3  1
'M&C  NB DEP     '   'AG'     -116.    510.  -896.    1267.  0.   50.
4  1
'M&C SB APPR     '   'AG'     -925    1236.  -238.     588.  0.   50.
5  2
'M&C SB QUEUE    '   'AG'     -238.    588.  -925.    1236.  0.   30.0   3
6  1
'M&C SB DEP      '   'AG'     -238.    588.   -29.     364.  0.   50.
7  1
'M&C WB APPR     '   'AG'       -1.    558.  -120.     559.  0.   35.
8  2
'M&C WB QUEUE    '   'AG'     -120.    559.    -1.     558.  0.   15.0   1
9  1
'M&C WB DEP      '   'AG'     -120.    559.   557.      23.  0.   35.
01   0.0
1     1067.   11.18
2       90     21     1.0    1067   206.96    0  0  5
3     1057.   11.18
4      586.   13.86
5       90     34     1.0     586   206.96    0  0  5
6      587.   13.86
7       81.   17.89
8       90     85     1.0      81   206.96    0  0  5
9       90.   17.89
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JOB: STALBAN TOWER PR PM M&C

RUN: STALBAN TOWER PROP. EVENING

General Information

Run start date: 1/ 1/ 1 Julian: 1
end date: 12/31/ 1 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 64
Upper Air Sta. Id & Yr = 99999 64

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	LINK COORDINATES (FT) X1	Y1	X2	Y2	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1. M&C NB APPR	53.0	378.0	-116.0	510.0	214.	308.	AG	.0	50.0	
2. M&C NB QUEUE	-116.0	510.0	53.0	378.0	214.	128.	AG	.0	30.0	3
3. M&C NB DEP	-116.0	510.0	-896.0	1267.0	1087.	314.	AG	.0	50.0	
4. M&C SB APPR	-925.0	1236.0	-238.0	588.0	944.	133.	AG	.0	50.0	
5. M&C SB QUEUE	-238.0	588.0	-925.0	1236.0	944.	313.	AG	.0	30.0	3
6. M&C SB DEP	-238.0	588.0	-29.0	364.0	306.	137.	AG	.0	50.0	
7. M&C WB APPR	-1.0	558.0	-120.0	559.0	119.	270.	AG	.0	35.0	
8. M&C WB QUEUE	-120.0	559.0	-1.0	558.0	119.	90.	AG	.0	15.0	1
9. M&C WB DEP	-120.0	559.0	557.0	23.0	863.	128.	AG	.0	35.0	

JOB: STALBAN TOWER PR PM M&C

RUN: STALBAN TOWER PROP. EVENING

Receptor Data

RECEPTOR	COORDINATES (FT) X	Y	Z
1. REC 4	310.0	-52.0	7.0
2. REC 5	258.0	36.0	7.2
3. REC 6	50.0	36.0	26.5
4. REC 9	-50.0	-36.0	26.5
5. REC 10	-50.0	330.0	27.0
6. REC 11	82.0	425.0	26.5
7. REC 12	-15.0	588.0	32.4
8. REC 13	-90.0	588.0	26.4
9. REC 14	-226.0	496.0	31.3
10. REC 15	-354.0	496.0	27.0

Model Results

Remarks : In search of the wind direction corresponding
to the maximum concentration, only the first
direction, of the directions with the same maximum
concentrations, is indicated as the maximum.

MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED (PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG	.1	.2	.1	.1	.6	.5	.8	.7	.6	.4
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.1	.2	.1	.1	.6	.5	.8	.7	.6	.4
WIND DIR	314	328	324	328	328	291	228	168	80	80
JULIAN	292	154	42	154	154	23	159	22	306	306
HOUR	5	1	24	1	1	20	20	9	24	24

THE HIGHEST CONCENTRATION OF .80 PPM OCCURRED AT RECEPTOR REC7 .

JOB: STALBAN TOWER PR PM M&C

RUN: STALBAN TOWER PROP. EVENING

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 4 HR RUNNING NON-OVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.02	(292, 8)	C 2	.00	(1, 0)	C 0
2	.03	(154, 6)	C 2	.03	(178, 4)	C 2
3	.02	(43, 2)	C 2	.02	(154, 6)	C 2
4	.02	(154, 6)	C 2	.00	(1, 0)	C 0
5	.20	(273,11)	C 0	.16	(154, 4)	C 1
6	.20	(79, 4)	C 0	.19	(292, 6)	C 1
7	.32	(181, 5)	C 2	.25	(313,23)	C 0
8	.41*	(161, 4)	C 1	.41*	(22, 9)	C 0
9	.20	(307, 1)	C 3	.20	(306, 8)	C 1
10	.18	(262, 5)	C 2	.14	(234, 3)	C 0

JOB: STALBAN TOWER PR PM M&C

RUN: STALBAN TOWER PROP. EVENING

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Conc	Highest Ending Day Hr	Highest Calm	Second Highest Conc	Second Highest Ending Day Hr	Second Highest Calm	Third Highest Conc	Third Highest Ending Day Hr	Third Highest Calm	Fourth Highest Conc	Fourth Highest Ending Day Hr	Fourth Highest Calm	Fifth Highest Conc	Fifth Highest Ending Day Hr	Fifth Highest Calm
1	.10	(292, 5)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
2	.20	(154, 1)	C 0	.10	(34, 5)	C 0	.10	(125,24)	C 0	.10	(163,22)	C 0	.10	(177, 1)	C 0
3	.10	(42,24)	C 0	.10	(154, 1)	C 0	.10	(163,24)	C 0	.10	(174, 5)	C 0	.10	(177,23)	C 0
4	.10	(154, 1)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.60	(154, 1)	C 0	.50	(7,20)	C 0	.50	(211,24)	C 0	.40	(110, 2)	C 0	.40	(153, 3)	C 0
6	.50	(23,20)	C 0	.50	(105,22)	C 0	.50	(201, 1)	C 0	.40	(27,20)	C 0	.40	(35, 2)	C 0
7	.80*	(159,20)	C 0	.50	(27, 7)	C 0	.50	(128, 5)	C 0	.50	(155, 5)	C 0	.50	(182, 4)	C 0
8	.70	(22, 9)	C 0	.70*	(158,22)	C 0	.60	(7,21)	C 0	.60	(24, 1)	C 0	.60	(43, 7)	C 0
9	.60	(306,24)	C 0	.50	(154, 1)	C 0	.40	(211,24)	C 0	.40	(288, 9)	C 0	.40	(288,20)	C 0
10	.40	(306,24)	C 0	.30	(102, 8)	C 0	.30	(138, 2)	C 0	.30	(160,22)	C 0	.30	(233,22)	C 0

JOB: STALBAN TOWER PR PM M&C

RUN: STALBAN TOWER PROP. EVENING

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	188	(7,13)(11, 5)(11,13)(21,24)(23,19)(29, 5)(31, 3)(31, 6)(34,24)(35, 6) (40,18)(42,23)(43, 5)(46, 2)(46,14)(48, 5)(54, 2)(54, 6)(56, 2)(59, 8) (62, 6)(62,23)(71,19)(72,23)(73, 4)(73, 8)(76, 8)(83, 4)(84,23)(85, 1) (105, 7)(110,18)(111,20)(125, 5)(126, 2)(126, 4)(132,21)(136, 8)(137, 4)(137, 6) (143,21)(144, 1)(154, 4)(154, 6)(156, 6)(158, 1)(160,24)(164, 1)(169, 6)(174, 4) (174,20)(175,21)(179, 6)(180, 5)(180,24)(182, 3)(182, 6)(184, 1)(188, 7)(188,24) (190, 2)(190,24)(191, 4)(191, 6)(192, 1)(192, 6)(193, 3)(193,23)(195,24)(198, 8) (199,20)(201,21)(201,24)(202, 2)(202, 5)(202,23)(203, 6)(204, 2)(204, 5)(204, 7) (205,22)(205,24)(206, 2)(206, 4)(210, 5)(212, 2)(214, 9)(214,21)(214,23)(215, 2) (215, 4)(215,21)(228,23)(230, 3)(233, 4)(238, 5)(239,22)(240, 2)(242, 3)(242,21) (242,23)(243, 1)(243,23)(244, 2)(244, 5)(246,22)(246,24)(247, 7)(248, 5)(250,22) (253,21)(255, 1)(257,24)(258, 3)(259,24)(260,21)(261, 1)(261, 6)(261, 8)(261,21) (261,24)(262, 3)(262, 7)(263, 1)(263, 3)(266, 4)(267, 3)(270, 1)(270, 5)(271,21) (273,14)(273,20)(276, 8)(277, 1)(280,23)(285, 8)(285,19)(288,19)(288,22)(289, 7) (289,18)(289,20)(289,24)(291,18)(292, 4)(292, 8)(294, 6)(297,23)(299, 4)(300, 6) (300, 8)(301, 4)(301, 7)(301,19)(302, 5)(306, 7)(306,15)(306,20)(307, 2)(308, 7) (308,22)(309,17)(311,19)(311,21)(312,18)(312,21)(314, 5)(315, 1)(319,11)(319,21) (320,20)(324,15)(329, 4)(329, 6)(336, 8)(338,21)(338,23)(339,11)(344,19)(344,21) (346, 8)(347, 5)(347,16)(356,19)(356,21)(357, 1)(357,23)(363,19)
2	55	(23,24)(24, 3)(29, 8)(36,18)(43, 3)(46, 6)(48,22)(49, 3)(102, 3)(111,24) (125,23)(136, 6)(139, 2)(139, 6)(156, 3)(157,21)(174,23)(193, 1)(196, 4)(198, 6) (198,23)(200,23)(203, 2)(203,22)(205, 1)(205, 5)(205, 8)(208,23)(222,24)(242, 6) (247, 3)(249,24)(250, 3)(250, 6)(250, 9)(261, 4)(262,20)(262,23)(272, 1)(279, 5) (281, 7)(286, 7)(288, 8)(289, 1)(299, 2)(301,23)(302, 2)(302,23)(306,23)(328,22) (329, 9)(344,24)(355,24)(356, 8)(361,10)
3	27	(18,23)(45,24)(49, 7)(53, 7)(102, 7)(107, 2)(144, 6)(160, 7)(180,22)(183, 2) (193, 7)(194, 3)(199,24)(202,21)(209, 4)(218, 3)(228, 7)(230, 7)(243, 6)(280, 5) (281, 3)(289, 5)(301, 2)(312, 7)(320, 4)(329,19)(356, 4)
4	12	(87,24)(170, 2)(198, 3)(209,24)(233, 1)(248, 1)(254,23)(269,23)(280, 1)(300,22) (312, 3)(320, 9)
[illegible]	12	(142,24)(143, 6)(147, 2)(169, 4)(178, 7)(188, 4)(189, 6)(228, 3)(254, 6)(286,23) (295, 1)(307, 8)

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     6              6        ( 59, 6)(199, 6)(238, 2)(259, 3)(288, 5)(298, 6)
     7              3        (229, 7)(286, 3)(310, 2)
     9              2        (220, 6)(252, 5)
    10              3        (253, 7)(305, 9)(309, 9)

Program terminated normally
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(GARFIELD ST. & ENTRANCE)

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'STALBAN TOWER EX AM ENT&G'  60.   175.   0.   0.  9   0.3048   1
1 1 01 12 31 01
99999   64   99999   64
0  0  'U'
'REC 1'    -354.     -36.   6.0
'REC 2'     -50.     -36.   26.5
'REC 3'      50.     -52.   26.5
'REC 4'     310.     -52.   7.0
'REC 5'     258.      36.   7.2
'REC 6'      50.      36.   26.5
'REC 7'     -50.      52.   26.5
'REC 8'    -354.      52.   6.0
'REC 15'   -354.     496.   21.0
1  'C'
1 1 1 1 1 1 1
'STALBAN TOWER PROP. MORNING'    9
1  1
'ENT&G NB DEP   '   'AG'     -364.     23.  -379.     512.  0.   30.
2  1
'ENT&G SB APPR  '   'AG'     -364.    512.  -364.      23.  0.   30.
3  2
'ENT&G SB QUEUE '   'AG'     -364.     23.  -364.     512.  0.   10.0   1
4  1
'ENT&G WB APPR  '   'AG'       34.      7.  -364.      23.  0.   35.
5  2
'ENT&G WB QUEUE '   'AG'     -364.     23.    34.       7.  0.   15.0   1
6  1
'ENT&G WB DEP   '   'AG'     -364.     23.  -722.      23.  0.   35.
7  1
'ENT&G EB APPR  '   'AG'     -756.      7.  -424.      23.  0.   35.
8  2
'ENT&G EB QUEUE '   'AG'     -424.      7.  -756.       7.  0.   15.0   1
9  1
'ENT&G EB DEP   '   'AG'     -424.      7.   -34.       7.  0.   35.
01   0.0
1       15.   46.91
2       74.   46.91
3       90    60     1.0      74   206.96    0  0  3
4       398.  21.47
5       90    30     1.0     398   206.96    0  0  3
6       460.  21.47
7       69.   21.47
8       90    30     1.0      69   206.96    0  0  3
9       66.   21.47
```

JOB: STALBAN TOWER PR AM ENT&G

RUN: STALBAN TOWER PROP. MORNING

General Information

Run start date: 1/ 1/ 1 Julian: 1
end date: 12/31/ 1 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Stc. Sta. Id & Yr = 99999 64
Upper Air Sta. Id & Yr = 99999 64

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	LINK COORDINATES (FT) X1	Y1	X2	Y2	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1. ENT&G NB DEP	-364.0	23.0	-379.0	512.0	489.	358.	AG	.0	30.0	
2. ENT&G SB APPR	-364.0	512.0	-364.0	23.0	489.	180.	AG	.0	30.0	
3. ENT&G SB QUEUE	-364.0	23.0	-364.0	512.0	489.	360.	AG	.0	10.0	1
4. ENT&G WB APPR	34.0	7.0	-364.0	23.0	398.	272.	AG	.0	35.0	
5. ENT&G WB QUEUE	-364.0	23.0	34.0	7.0	398.	92.	AG	.0	15.0	1
6. ENT&G WB DEP	-364.0	23.0	-722.0	23.0	358.	270.	AG	.0	35.0	
7. ENT&G EB APPR	-756.0	7.0	-424.0	23.0	332.	87.	AG	.0	35.0	
8. ENT&G EB QUEUE	-424.0	7.0	-756.0	7.0	332.	270.	AG	.0	15.0	1
9. ENT&G EB DEP	-424.0	7.0	-34.0	7.0	390.	90.	AG	.0	35.0	

JOB: STALBAN TOWER PR AM ENT&G

RUN: STALBAN TOWER PROP. MORNING

Receptor Data

RECEPTOR	COORDINATES (FT) X	Y	Z
1. REC 1	-354.0	-36.0	6.0
2. REC 2	-50.0	-36.0	26.5
3. REC 3	50.0	-52.0	26.5
4. REC 4	310.0	-52.0	7.0
5. REC 5	258.0	36.0	7.2
6. REC 6	50.0	36.0	26.5
7. REC 7	-50.0	52.0	26.5
8. REC 8	-354.0	52.0	6.0
9. REC 15	-354.0	496.0	21.0

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED

(PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9
MAX+BKG	.5	.1	.1	.0	.1	.1	.1	1.3	.1
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.5	.1	.1	.0	.1	.1	.1	1.3	.1
WIND DIR	354	295	295	0	262	257	257	228	178
JULIAN	309	7	7	0	11	1	1	159	7
HOUR	18	16	16	0	7	18	18	20	21

THE HIGHEST CONCENTRATION OF 1.30 PPM OCCURRED AT RECEPTOR REC8 .

JOB: STALBAN TOWER PRAM ENT&G

RUN: STALBAN TOWER PROP. MORNING

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.24	(214, 4)	C 0	.23	(273, 8)	C 0
2	.07	(178, 4)	C 2	.06	(132, 6)	C 0
3	.06	(132, 6)	C 0	.06	(178, 1)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.02	(46, 1)	C 3	.02	(192, 6)	C 2
6	.10	(299, 2)	C 2	.09	(22, 2)	C 1
7	.07	(299, 2)	C 2	.06	(181, 7)	C 1
8	.70*	(181, 6)	C 1	.65*	(185, 3)	C 0
9	.05	(22, 9)	C 0	.05	(43,10)	C 2

JOB: STALBAN TOWER PR AM ENT&G

RUN: STALBAN TOWER PROP. MORNING

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr	Highest			Second Highest			Third Highest			Fourth Highest			Fifth Highest		
No.	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm
1	.50	(309,18)	C 0	.40	(7,12)	C 0	.40	(50, 8)	C 0	.40	(83, 5)	C 0	.40	(92,10)	C 0
2	.10	(7,16)	C 0	.10	(11, 3)	C 0	.10	(14, 6)	C 0	.10	(22, 3)	C 0	.10	(23,20)	C 0
3	.10	(7,16)	C 0	.10	(11, 3)	C 0	.10	(14, 6)	C 0	.10	(22, 3)	C 0	.10	(23,20)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.10	(11, 7)	C 0	.10	(46, 1)	C 0	.10	(92, 8)	C 0	.10	(133,21)	C 0	.10	(192, 5)	C 0
6	.10	(1,18)	C 0	.10	(7,15)	C 0	.10	(7,17)	C 0	.10	(7,18)	C 0	.10	(7,19)	C 0
7	.10	(1,18)	C 0	.10	(7,15)	C 0	.10	(7,17)	C 0	.10	(7,18)	C 0	.10	(11, 6)	C 0
8	1.00*	(159,20)	C 0	1.00*	(84,22)	C 0	1.00	(98, 1)	C 0	1.00	(107, 5)	C 0	1.00	(107, 7)	C 0
9	.10	(7,21)	C 0	.10	(11, 4)	C 0	.10	(22, 4)	C 0	.10	(22, 5)	C 0	.10	(22, 6)	C 0

JOB: STALBAN TOWER PR AM ENT&G

RUN: STALBAN TOWER PROP. MORNING

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	188	(7,13)(11, 5)(11,13)(21,24)(23,19)(29, 5)(31, 3)(31, 6)(34,24)(35, 6) (40,18)(42,23)(43, 5)(46, 2)(46,14)(48, 5)(54, 2)(54, 6)(56, 2)(59, 8) (62, 6)(62,23)(71,19)(72,23)(73, 4)(73, 8)(76, 8)(83, 4)(84,23)(85, 1) (105, 7)(110,18)(111,20)(125, 5)(126, 2)(126, 4)(132,21)(136, 8)(137, 4)(137, 6) (143,21)(144, 1)(154, 4)(154, 6)(156, 6)(158, 1)(160,24)(164, 1)(169, 6)(174, 4) (174,20)(175,21)(179, 6)(180, 5)(180,24)(182, 3)(182, 6)(184, 1)(188, 7)(188,24) (190, 2)(190,24)(191, 4)(191, 6)(192, 1)(192, 6)(193, 3)(193,23)(195,24)(198, 8) (199,20)(201,21)(201,24)(202, 2)(202, 5)(202,23)(203, 6)(204, 2)(204, 5)(204, 7) (205,22)(205,24)(206, 2)(206, 4)(210, 5)(212, 2)(214, 9)(214,21)(214,23)(215, 2) (215, 4)(215,21)(228,23)(230, 3)(233, 4)(238, 5)(239,22)(240, 2)(242, 3)(242,21) (242,23)(243, 1)(243,23)(244, 2)(244, 5)(246,22)(246,24)(247, 7)(248, 5)(250,22) (253,21)(255, 1)(257,24)(258, 3)(259,24)(260,21)(261, 1)(261, 6)(261, 8)(261,21) (261,24)(262, 3)(262, 7)(263, 1)(263, 3)(266, 4)(267, 3)(270, 1)(270, 5)(271,21) (273,14)(273,20)(276, 8)(277, 1)(280,23)(285, 8)(285,19)(288,19)(288,22)(289, 7) (289,18)(289,20)(289,24)(291,18)(292, 4)(292, 8)(294, 6)(297,23)(299, 4)(300, 6) (300, 8)(301, 4)(301, 7)(301,19)(302, 5)(306, 7)(306,15)(306,20)(307, 2)(308, 7) (308,22)(309,17)(311,19)(311,21)(312,18)(312,21)(314, 5)(315, 1)(319,11)(319,21) (320,20)(324,15)(329, 4)(329, 6)(336, 8)(338,21)(338,23)(339,11)(344,19)(344,21) (346, 8)(347, 5)(347,16)(356,19)(356,21)(357, 1)(357,23)(363,19)
2	55	(23,24)(24, 3)(29, 8)(36,18)(43, 3)(46, 6)(48,22)(49, 3)(102, 3)(111,24) (125,23)(136, 6)(139, 2)(139, 6)(156, 3)(157,21)(174,23)(193, 1)(196, 4)(198, 6) (198,23)(200,23)(203, 2)(203,22)(205, 1)(205, 5)(205, 8)(208,23)(222,24)(242, 6) (247, 3)(249,24)(250, 3)(250, 6)(250, 9)(261, 4)(262,20)(262,23)(272, 1)(279, 5) (281, 7)(286, 7)(288, 8)(289, 1)(299, 2)(301,23)(302, 2)(302,23)(306,23)(328,22) (329, 9)(344,24)(355,24)(356, 8)(361,10)
3	27	(18,23)(45,24)(49, 7)(53, 7)(102, 7)(107, 2)(144, 6)(160, 7)(180,22)(183, 2) (193, 7)(194, 3)(199,24)(202,21)(209, 4)(218, 3)(228, 7)(230, 7)(243, 6)(280, 5) (281, 3)(289, 5)(301, 2)(312, 7)(320, 4)(329,19)(356, 4)
4	12	(87,24)(170, 2)(198, 3)(209,24)(233, 1)(248, 1)(254,23)(269,23)(280, 1)(300,22) (312, 3)(320, 9)
[illegible]	[illegible]	(142,24)(143, 6)(147, 2)(169, 4)(178, 7)(188, 4)(189, 6)(228, 3)(254, 6)(286,23) (295, 1)(307, 8)

```
     6          6       ( 59, 6)(199, 6)(238, 2)(259, 3)(288, 5)(298, 6)
     7          3       (229, 7)(286, 3)(310, 2)
     9          2       (220, 6)(252, 5)
    10          3       (253, 7)(305, 9)(309, 9)

Program terminated normally
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```
'STALBAN TOWER EX PM ENT&G'  60.   175.   0.   0.  9   0.3048   1
1 1 01 12 31 01
99999   64   99999   64
0  0  'U'
'REC 1'     -354.      -36.    6.0
'REC 2'      -50.      -36.   26.5
'REC 3'       50.      -52.   26.5
'REC 4'      310.      -52.    7.0
'REC 5'      258.       36.    7.2
'REC 6'       50.       36.   26.5
'REC 7'      -50.       52.   26.5
'REC 8'     -354.       52.    6.0
'REC 15'    -354.      496.   21.0
1  'C'
1 1 1 1 1 1 1
'STALBAN TOWER PROP. EVENING'    9
1  1
'ENT&G NB DEP   '   'AG'     -364.     23.  -379.     512.  0.   30.
2  1
'ENT&G SB APPR  '   'AG'     -364.    512.  -364.      23.  0.   30.
3  2
'ENT&G SB QUEUE '   'AG'     -364.     23.  -364.     512.  0.   10.0   1
4  1
'ENT&G WB APPR  '   'AG'       34.      7.  -364.      23.  0.   35.
5  2
'ENT&G WB QUEUE '   'AG'     -364.     23.    34.       7.  0.   15.0   1
6  1
'ENT&G WB DEP   '   'AG'     -364.     23.  -722.      23.  0.   35.
7  1
'ENT&G EB APPR  '   'AG'     -756.      7.  -424.      23.  0.   35.
8  2
'ENT&G EB QUEUE '   'AG'     -424.      7.  -756.       7.  0.   15.0   1
9  1
'ENT&G EB DEP   '   'AG'     -424.      7.   -34.       7.  0.   35.
01   0.0
1       73.   46.91
2       35.   46.91
3      90     60     1.0      35   206.96    0  0  3
4      128.   21.47
5      90     30     1.0     128   206.96    0  0  3
6      137.   21.47
7      196.   21.47
8      90     30     1.0     196   206.96    0  0  3
9      149.   21.47
```

JOB: STALBAN TOWER PR PM ENT&G

RUN: STALBAN TOWER PROP. EVENING

General Information

Run start date: 1/ 1/ 1 Julian: 1
end date: 12/31/ 1 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 64
Upper Air Sta. Id & Yr = 99999 64

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

	LINK DESCRIPTION	LINK COORDINATES (FT) X1	Y1	X2	Y2	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1.	ENT&G NB DEP	-364.0	23.0	-379.0	512.0	489.	358.	AG	.0	30.0	
2.	ENT&G SB APPR	-364.0	512.0	-364.0	23.0	489.	180.	AG	.0	30.0	
3.	ENT&G SB QUEUE	-364.0	23.0	-364.0	512.0	489.	360.	AG	.0	10.0	1
4.	ENT&G WB APPR	34.0	7.0	-364.0	23.0	398.	272.	AG	.0	35.0	
5.	ENT&G WB QUEUE	-364.0	23.0	34.0	7.0	398.	92.	AG	.0	15.0	1
6.	ENT&G WB DEP	-364.0	23.0	-722.0	23.0	358.	270.	AG	.0	35.0	
7.	ENT&G EB APPR	-756.0	7.0	-424.0	23.0	332.	87.	AG	.0	35.0	
8.	ENT&G EB QUEUE	-424.0	7.0	-756.0	7.0	332.	270.	AG	.0	15.0	1
9.	ENT&G EB DEP	-424.0	7.0	-34.0	7.0	390.	90.	AG	.0	35.0	

JOB: STALBAN TOWER PR PM ENT&G

RUN: STALBAN TOWER PROP. EVENING

Receptor Data

RECEPTOR	COORDINATES (FT) X	Y	Z
1. REC 1	-354.0	-36.0	6.0
2. REC 2	-50.0	-36.0	26.5
3. REC 3	50.0	-52.0	26.5
4. REC 4	310.0	-52.0	7.0
5. REC 5	258.0	36.0	7.2
6. REC 6	50.0	36.0	26.5
7. REC 7	-50.0	52.0	26.5
8. REC 8	-354.0	52.0	6.0
9. REC 15	-354.0	496.0	21.0

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED (PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9
MAX+BKG	.3	.0	.0	.0	.0	.0	.0	.7	.1
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.3	.0	.0	.0	.0	.0	.0	.7	.1
WIND DIR	355	0	0	0	0	0	0	228	178
JULIAN	192	0	0	0	0	0	0	159	7
HOUR	7	0	0	0	0	0	0	20	21

THE HIGHEST CONCENTRATION OF .70 PPM OCCURRED AT RECEPTOR REC8 .

JOB: STALBAN TOWER EX PM ENT&G

RUN: STALBAN TOWER PROP. EVENING

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.07	(288,23)	C 2	.07	(192, 7)	C 2
2	.00	(1, 0)	C 0	.00	(1, 0)	C 0
3	.00	(1, 0)	C 0	.00	(1, 0)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.00	(1, 0)	C 0	.00	(1, 0)	C 0
6	.00	(1, 0)	C 0	.00	(1, 0)	C 0
7	.00	(1, 0)	C 0	.00	(1, 0)	C 0
8	.30*	(22, 9)	C 0	.29*	(140, 5)	C 0
9	.05	(43,10)	C 2	.05	(302, 3)	C 4

JOB: STALBAN TOWER PR PM ENT&G

RUN: STALBAN TOWER PROP. EVENING

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Conc	Highest Ending Day Hr	Highest Calm	Second Highest Conc	Second Highest Ending Day Hr	Second Highest Calm	Third Highest Conc	Third Highest Ending Day Hr	Third Highest Calm	Fourth Highest Conc	Fourth Highest Ending Day Hr	Fourth Highest Calm	Fifth Highest Conc	Fifth Highest Ending Day Hr	Fifth Highest Calm
1	.30	(192, 7)	C 0	.30	(194,10)	C 0	.30	(211,24)	C 0	.30	(238,20)	C 0	.30	(288,20)	C 0
2	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
3	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
6	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
7	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
8	.70*	(159,20)	C 0	.60*	(22, 9)	C 0	.50	(22, 4)	C 0	.50	(22, 5)	C 0	.50	(23,18)	C 0
9	.10	(7,21)	C 0	.10	(22, 4)	C 0	.10	(22, 5)	C 0	.10	(22, 6)	C 0	.10	(23,18)	C 0

JOB: STALBAN TOWER PR PM ENT&G

RUN: STALBAN TOWER PROP. EVENING

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	188	(7,13)(11, 5)(11,13)(21,24)(23,19)(29, 5)(31, 3)(31, 6)(34,24)(35, 6) (40,18)(42,23)(43, 5)(46, 2)(46,14)(48, 5)(54, 2)(54, 6)(56, 2)(59, 8) (62, 6)(62,23)(71,19)(72,23)(73, 4)(73, 8)(76, 8)(83, 4)(84,23)(85, 1) (105, 7)(110,18)(111,20)(125, 5)(126, 2)(126, 4)(132,21)(136, 8)(137, 4)(137, 6) (143,21)(144, 1)(154, 4)(154, 6)(156, 6)(158, 1)(160,24)(164, 1)(169, 6)(174, 4) (174,20)(175,21)(179, 6)(180, 5)(180,24)(182, 3)(182, 6)(184, 1)(188, 7)(188,24) (190, 2)(190,24)(191, 4)(191, 6)(192, 1)(192, 6)(193, 3)(193,23)(195,24)(198, 8) (199,20)(201,21)(201,24)(202, 2)(202, 5)(202,23)(203, 6)(204, 2)(204, 5)(204, 7) (205,22)(205,24)(206, 2)(206, 4)(210, 5)(212, 2)(214, 9)(214,21)(214,23)(215, 2) (215, 4)(215,21)(228,23)(230, 3)(233, 4)(238, 5)(239,22)(240, 2)(242, 3)(242,21) (242,23)(243, 1)(243,23)(244, 2)(244, 5)(246,22)(246,24)(247, 7)(248, 5)(250,22) (253,21)(255, 1)(257,24)(258, 3)(259,24)(260,21)(261, 1)(261, 6)(261, 8)(261,21) (261,24)(262, 3)(262, 7)(263, 1)(263, 3)(266, 4)(267, 3)(270, 1)(270, 5)(271,21) (273,14)(273,20)(276, 8)(277, 1)(280,23)(285, 8)(285,19)(288,19)(288,22)(289, 7) (289,18)(289,20)(289,24)(291,18)(292, 4)(292, 8)(294, 6)(297,23)(299, 4)(300, 6) (300, 8)(301, 4)(301, 7)(301,19)(302, 5)(306, 7)(306,15)(306,20)(307, 2)(308, 7) (308,22)(309,17)(311,19)(311,21)(312,18)(312,21)(314, 5)(315, 1)(319,11)(319,21) (320,20)(324,15)(329, 4)(329, 6)(336, 8)(338,21)(338,23)(339,11)(344,19)(344,21) (346, 8)(347, 5)(347,16)(356,19)(356,21)(357, 1)(357,23)(363,19)
2	55	(23,24)(24, 3)(29, 8)(36,18)(43, 3)(46, 6)(48,22)(49, 3)(102, 3)(111,24) (125,23)(136, 6)(139, 2)(139, 6)(156, 3)(157,21)(174,23)(193, 1)(196, 4)(198, 6) (198,23)(200,23)(203, 2)(203,22)(205, 1)(205, 5)(205, 8)(208,23)(222,24)(242, 6) (247, 3)(249,24)(250, 3)(250, 6)(250, 9)(261, 4)(262,20)(262,23)(272, 1)(279, 5) (281, 7)(286, 7)(288, 8)(289, 1)(299, 2)(301,23)(302, 2)(302,23)(306,23)(328,22) (329, 9)(344,24)(355,24)(356, 8)(361,10)
3	27	(18,23)(45,24)(49, 7)(53, 7)(102, 7)(107, 2)(144, 6)(160, 7)(180,22)(183, 2) (193, 7)(194, 3)(199,24)(202,21)(209, 4)(218, 3)(228, 7)(230, 7)(243, 6)(280, 5) (281, 3)(289, 5)(301, 2)(312, 7)(320, 4)(329,19)(356, 4)
4	12	(87,24)(170, 2)(198, 3)(209,24)(233, 1)(248, 1)(254,23)(269,23)(280, 1)(300,22) (312, 3)(320, 9)
	12	(142,24)(143, 6)(147, 2)(169, 4)(178, 7)(188, 4)(189, 6)(228, 3)(254, 6)(286,23) (295, 1)(307, 8)
	6	(59, 6)(199, 6)(238, 2)(259, 3)(288, 5)(298, 6)

```
         7              3        (229, 7)(286, 3)(310, 2)
         9              2        (220, 6)(252, 5)
        10              3        (253, 7)(305, 9)(309, 9)

Program terminated normally
```

SUMMARY TABLES

ST ALBAN TOWER WASHINGTON DC
1 HOUR MAXIMUM
EXISTING MORNING

Receptor	W&C	W&G	W&M	M&C	ENT&G	TOTAL
1		1.80				1.80
2	0.60	1.50	0.90			3.00
3	0.60	1.40	0.80			2.80
4		1.20	1.10	0.10		2.40
5		1.20	1.30	0.20		2.70
6	0.70	1.50	1.10	0.30		3.60
7	0.80	1.60	1.10			3.50
8		1.50				1.50
9	0.60	1.50	0.90	0.10		3.10
10	1.50	1.50	1.50	0.60		5.10
11	2.00	0.80	1.30	0.50		4.60
12	2.00	0.60	2.20	0.70		5.50
13	1.30		1.60	0.60		3.50
14	0.70			0.70		1.40
15	0.60			0.40		1.00

ST ALBAN TOWER WASHINGTON DC
1 HOUR MAXIMUM
EXISTING EVENING

Receptor	W&C	W&G	W&M	M&C	ENT&G	TOTAL
1		0.60				0.60
2	0.60	1.40	0.80			2.80
3	0.60	1.30	0.70			2.60
4		0.80	0.70	0.10		1.60
5		0.90	1.10	0.10		2.10
6	0.70	1.30	0.90	0.10		3.00
7	0.80	1.40	1.10			3.30
8		0.80				0.80
9	0.60	1.40	0.80	0.10		2.90
10	1.20	1.20	0.30	0.60		3.30
11	1.90	0.60	1.30	0.50		4.30
12	1.30	0.40	2.30	0.80		4.80
13	1.10		1.60	0.70		3.40
14	0.70			0.60		1.30
15	0.50			0.40		0.90

ST ALBAN TOWER WASHINGTON DC
1 HOUR MAXIMUM
PROPOSED MORNING

Receptor	W&C	W&G	W&M	M&C	ENT&G	TOTAL
1		1.60			0.50	2.10
2	0.60	2.00	0.90		0.10	3.60
3	0.60	1.70	0.80		0.10	3.20
4		1.30	1.10	0.10	0.00	2.50
5		1.60	1.40	0.20	0.10	3.30
6	0.70	1.90	1.10	0.30	0.10	4.10
7	0.80	2.00	1.10		0.10	4.00
8		1.60			1.30	2.90
9	0.60	2.00	0.90	0.10		3.60
10	1.60	1.70	1.50	0.60		5.40
11	2.00	0.90	1.30	0.50		4.70
12	2.00	0.70	2.20	0.70		5.60
13	1.30		1.60	0.60		3.50
14	0.80			0.70		1.50
15	0.60			0.40	0.10	1.10

ST ALBAN TOWER WASHINGTON DC
1 HOUR MAXIMUM
PROPOSED EVENING

Receptor	W&C	W&G	W&M	M&C	ENT&G	TOTAL
1		0.70			0.30	1.00
2	0.60	1.70	0.80		0.00	3.10
3	0.60	1.40	0.70		0.00	2.70
4		0.70	0.70	0.10	0.00	1.50
5		1.20	1.10	0.20	0.00	2.50
6	0.70	1.50	1.00	0.10	0.00	3.30
7	0.80	1.60	1.20		0.00	3.60
8		1.00			0.70	1.70
9	0.60	1.70	0.80	0.10		3.20
10	1.20	1.20	0.40	0.60		3.40
11	1.80	0.60	1.30	0.50		4.20
12	1.30	0.50	2.30	0.80		4.90
13	1.10		1.60	0.70		3.40
14	0.70			0.60		1.30
15	0.50			0.40	0.10	1.00

ST ALBAN TOWER WASHINGTON DC
8 HOUR AVERAGE
EXISTING MORNING

Receptor	W&C	W&G	W&M	M&C	ENT&G	TOTAL
1		0.95				0.95
2	0.34	0.82	0.43			1.59
3	0.26	0.72	0.29			1.27
4		0.67	0.31	0.03		1.01
5		0.63	0.47	0.03		1.13
6	0.33	0.85	0.37	0.05		1.60
7	0.40	0.79	0.46			1.65
8		0.75				0.75
9	0.34	0.82	0.43	0.02		1.61
10	0.94	0.64	0.87	0.26		2.71
11	0.89	0.36	0.75	0.25		2.25
12	1.21	0.29	0.93	0.33		2.76
13	0.92		0.74	0.38		2.04
14	0.47			0.27		0.74
15	0.35			0.28		0.63

ST ALBAN TOWER WASHINGTON DC
8 HOUR AVERAGE
EXISTING EVENING

Receptor	W&C	W&G	W&M	M&C	ENT&G	TOTAL
1		0.20				0.20
2	0.25	0.75	0.46			1.46
3	0.19	0.65	0.34			1.18
4		0.37	0.25	0.02		0.64
5		0.53	0.37	0.03		0.93
6	0.26	0.75	0.44	0.02		1.47
7	0.36	0.70	0.63			1.69
8		0.25				0.25
9	0.25	0.75	0.46	0.02		1.48
10	0.80	0.50	0.10	0.20		1.60
11	0.70	0.27	0.73	0.20		1.90
12	0.60	0.23	0.84	0.32		1.99
13	0.63		0.63	0.41		1.67
14	0.30			0.20		0.50
15	0.21			0.18		0.39

ST ALBAN TOWER WASHINGTON DC
8 HOUR AVERAGE
PROPOSED MORNING

Receptor	W&C	W&G	W&M	M&C	ENT&G	TOTAL
1		0.95			0.24	1.19
2	0.34	1.01	0.43		0.07	1.85
3	0.26	0.97	0.30		0.06	1.59
4		0.77	0.31	0.03	0.00	1.11
5		0.87	0.47	0.03	0.02	1.39
6	0.33	1.07	0.39	0.05	0.10	1.94
7	0.40	1.03	0.49		0.07	1.99
8		0.75			0.70	1.45
9	0.34	1.01	0.43	0.02		1.80
10	0.94	0.71	0.87	0.26		2.78
11	0.89	0.40	0.75	0.25		2.29
12	1.21	0.28	0.93	0.33		2.75
13	0.92		0.74	0.38		2.04
14	0.48			0.27		0.75
15	0.35			0.28	0.05	0.68

ST ALBAN TOWER WASHINGTON DC
8 HOUR AVERAGE
PROPOSED EVENING

Receptor	W&C	W&G	W&M	M&C	ENT&G	TOTAL
1		0.25			0.07	0.32
2	0.23	0.87	0.46		0.00	1.56
3	0.16	0.83	0.34		0.00	1.33
4		0.40	0.25	0.02	0.00	0.67
5		0.60	0.37	0.03	0.00	1.00
6	0.25	0.88	0.44	0.02	0.00	1.59
7	0.35	0.80	0.63		0.00	1.78
8		0.30			0.30	0.60
9	0.23	0.87	0.46	0.02		1.58
10	0.80	0.50	0.10	0.20		1.60
11	0.70	0.25	0.73	0.20		1.88
12	0.60	0.22	0.84	0.32		1.98
13	0.62		0.63	0.41		1.66
14	0.30			0.20		0.50
15	0.21			0.18	0.05	0.44

ST ALBAN TOWER WASHINGTON DC
TOTAL CO W/O BACKGROUND

	Total Existing AM		Total Existing PM		Total Future AM		Total Future PM		Total Change AM		Total Change PM	
Receptor	1 hr.	8 hr.	1 hr.	8 hr.	1 hr.	8 hr.	1 hr.	8 hr.	1 hr.	8 hr.	1 hr.	8 hr.
1	1.80	0.95	0.60	0.20	2.10	1.19	1.00	0.32	0.30	0.24	0.40	0.12
2	3.00	1.59	2.80	1.46	3.60	1.85	3.10	1.56	0.60	0.26	0.30	0.10
3	2.80	1.27	2.60	1.18	3.20	1.59	2.70	1.33	0.40	0.32	0.10	0.15
4	2.40	1.01	1.60	0.64	2.50	1.11	1.50	0.67	0.10	0.10	-0.10	0.03
5	2.70	1.13	2.10	0.93	3.30	1.39	2.50	1.00	0.60	0.26	0.40	0.07
6	3.60	1.60	3.00	1.47	4.10	1.94	3.30	1.59	0.50	0.34	0.30	0.12
7	3.50	1.65	3.30	1.69	4.00	1.99	3.60	1.78	0.50	0.34	0.30	0.09
8	1.50	0.75	0.80	0.25	2.90	1.45	1.70	0.60	1.40	0.70	0.90	0.35
9	3.10	1.61	2.90	1.48	3.60	1.80	3.20	1.58	0.50	0.19	0.30	0.10
10	5.10	2.71	3.30	1.60	5.40	2.78	3.40	1.60	0.30	0.07	0.10	0.00
11	4.60	2.25	4.30	1.90	4.70	2.29	4.20	1.88	0.10	0.04	-0.10	-0.02
12	5.50	2.76	4.80	1.99	5.60	2.75	4.90	1.98	0.10	-0.01	0.10	-0.01
13	3.50	2.04	3.40	1.67	3.50	2.04	3.40	1.66	0.00	0.00	0.00	-0.01
14	1.40	0.74	1.30	0.50	1.50	0.75	1.30	0.50	0.10	0.01	0.00	0.00
15	1.00	0.63	0.90	0.39	1.10	0.68	1.00	0.44	0.10	0.05	0.10	0.05

APPENDIX E

CAL3QHCR INPUT AND OUTPUT
(21&L STREETS, NW)

MOBILE5B
JUNE
30MPH

```
1MOBILE5B GWU HOSPITAL
 MOBILE5b (14-Sep-96)
0
-M 49 Warning:
+                0.997     MYR sum not = 1. (will normalize)
-M 49 Warning:
+                 1.00     MYR sum not = 1. (will normalize)
-M 49 Warning:
+                 1.00     MYR sum not = 1. (will normalize)
-M 49 Warning:
+                0.997     MYR sum not = 1. (will normalize)
-M 49 Warning:
+                 1.00     MYR sum not = 1. (will normalize)
-M 49 Warning:
+                0.999     MYR sum not = 1. (will normalize)
-M170 Warning:
+               Exhaust emissions for gasoline fueled vehicles
               beginning in 1995 have been reduced as a result of
               Gasoline Detergent Additive Regulations (1994).
0I/M program #1 selected:                    I/M program #2 selected:

0Start year (Jan 1):  1983                   Start year (Jan 1):  1983
 Pre-1981 stringency: 40%                    Pre-1981 stringency: 40%
 First MYR covered:   1968                   First MYR covered:   1981
 Last MYR covered:    2020                   Last MYR covered:    2020
 Waiver (pre-1981):    3.%                   Waiver (pre-1981):    3.%
 Waiver (1981+):       3.%                   Waiver (1981+):       3.%
 Compliance Rate:     96.%                   Compliance Rate:     96.%
 Inspection type:                            Inspection type:
 Test Only                                   Test Only
 Inspection frequency: Biennial              Inspection frequency: Biennial
 I/M program #1 vehicle types                I/M program #2 vehicle types
      LDGV - Yes                                  LDGV - Yes
     LDGT1 - Yes                                 LDGT1 - Yes
     LDGT2 - No                                  LDGT2 - Yes
      HDGV - No                                   HDGV - No
 1981 & later MYR test type:                 1981 & later MYR test type:
      2500 rpm / Idle                             IM240 test
 Cutpoints, HC:   220.000                    Cutpoints, HC:     0.800
 Cutpoints, CO:     1.200                    Cutpoints, CO:    20.000
 Cutpoints, NOx:  999.000                    Cutpoints, NOx:    2.000

  Low alt, Annl and Bien Insp Freq TECH 1 & 2 I/M cred data
 Bien Insp Freq & TECH 4+ I/M credit 2500/Idle test data
 Bien Insp Freq & TECH 4+ I/M credit IM240 test data
0Functional Check Program Description:
```

0Check Start Model Yrs Vehicle Classes Covered Inspection Comp Eff

	(Jan1)	Covered	LDGV	LDGT1	LDGT2	HDGV	Type	Freq	Rate	Adj
Press	1983	1975-2020	Yes	Yes	Yes	No	Test Only	Biennial	96.0%	1.00
Purge	1983	1981-2020	Yes	Yes	Yes	No	Test Only	Biennial	96.0%	1.00
ATP	1983	1975-2020	Yes	Yes	Yes	No	Test Only	Biennial	96.0%	1.00

0Air pump system disablements: Yes Catalyst removals: Yes
Fuel inlet restrictor disablements: Yes Tailpipe lead deposit test: No
EGR disablement: No Evaporative system disablements: No
PCV system disablements: No Missing gas caps: No
0Non-methane HC emission factors include all evaporative HC emission factors, except for refueling emissions.
0

0Emission factors are as of Jan. 1st of the indicated calendar year.
0User supplied veh registration distributions.
0Cal. Year: 2001 I/M Program: Yes Ambient Temp: 86.8 / 86.8 / 86.8 (F) Region: Low
Anti-tam. Program: Yes Operating Mode: 20.6 / 27.3 / 20.6 Altitude: 500. Ft.
Reformulated Gas: No
0GWU_HOSPITAL_JUL Minimum Temp: 67. (F) Maximum Temp: 93. (F)
Period 1 RVP: 7.8 Period 2 RVP: 7.8 Period 2 Start Yr: 2000

0 Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Speeds:	30.0	30.0	30.0		30.0	30.0	30.0	30.0	30.0	
VMT Mix:	0.820	0.091	0.014		0.016	0.014	0.000	0.029	0.016	
0Composite Emission Factors (Gm/Mile)										
Non-Meth HC:	0.79	0.73	1.13	0.79	3.71	0.38	0.46	1.51	5.98	0.936
Exhaust HC:	0.52	0.52	0.84	0.56	1.57	0.38	0.46	1.51	1.74	0.588
Evaporat HC:	0.12	0.10	0.14	0.11	1.67				3.72	0.197
Refuel L HC:	0.00	0.00	0.00	0.00	0.00					0.000
Runing L HC:	0.10	0.07	0.10	0.08	0.37					0.097
Rsting L HC:	0.05	0.04	0.05	0.04	0.09				0.52	0.055
Exhaust CO:	6.47	6.63	10.20	7.10	34.63	0.96	0.00	7.36	16.83	7.101
Exhaust NOX:	0.97	0.91	1.44	0.98	5.14	1.07	0.00	9.54	0.92	1.287

0Evaporative Emissions by Component Weathered RVP: 7.4 Hot Soak Temp: 88.6 (F)
(Hot Soak: g/trip, Diurnals: g, Crankcase: g/mi, Refuel: g/gal, Resting: g/hr) Running Loss Temp: 89.5 (F)
Resting Loss Temp: 81.6 (F)

Hot Soak	0.57	0.51	0.68	0.56	6.04				12.37	
WtDiurnal	1.04	1.16	1.90	1.38	21.74				12.90	
Multiple	5.46	5.70	6.92	6.06	31.11					
Crankcase	0.01	0.00	0.00	0.00	0.01				0.00	
Refuel	0.00	0.00	0.00	0.00	0.00					
Resting	0.06	0.05	0.06	0.05	0.10				0.17	

MOBILE5B
JUNE
25MPH

```
1MOBILE5B GWU HOSPITAL
 MOBILE5b (14-Sep-96)
0
-M 49 Warning:
+               0.997     MYR sum not = 1. (will normalize)
-M 49 Warning:
+                1.00     MYR sum not = 1. (will normalize)
-M 49 Warning:
+                1.00     MYR sum not = 1. (will normalize)
-M 49 Warning:
+               0.997     MYR sum not = 1. (will normalize)
-M 49 Warning:
+                1.00     MYR sum not = 1. (will normalize)
-M 49 Warning:
+               0.999     MYR sum not = 1. (will normalize)
-M170 Warning:
+              Exhaust emissions for gasoline fueled vehicles
              beginning in 1995 have been reduced as a result of
              Gasoline Detergent Additive Regulations (1994).
0I/M program #1 selected:                    I/M program #2 selected:

0Start year (Jan 1):  1983                   Start year (Jan 1):  1983
 Pre-1981 stringency: 40%                    Pre-1981 stringency: 40%
 First MYR covered:   1968                   First MYR covered:   1981
 Last MYR covered:    2020                   Last MYR covered:    2020
 Waiver (pre-1981):    3.%                   Waiver (pre-1981):    3.%
 Waiver (1981+):       3.%                   Waiver (1981+):       3.%
 Compliance Rate:     96.%                   Compliance Rate:     96.%
 Inspection type:                            Inspection type:
 Test Only                                   Test Only
 Inspection frequency: Biennial              Inspection frequency: Biennial
 I/M program #1 vehicle types                I/M program #2 vehicle types
      LDGV - Yes                                  LDGV - Yes
     LDGT1 - Yes                                 LDGT1 - Yes
     LDGT2 - No                                  LDGT2 - Yes
      HDGV - No                                   HDGV - No
 1981 & later MYR test type:                 1981 & later MYR test type:
      2500 rpm / Idle                             IM240 test
 Cutpoints, HC:   220.000                    Cutpoints, HC:     0.800
 Cutpoints, CO:     1.200                    Cutpoints, CO:    20.000
 Cutpoints, NOx:  999.000                    Cutpoints, NOx:    2.000

  Low alt, Annl and Bien Insp Freq TECH 1 & 2 I/M cred data
 Bien Insp Freq & TECH 4+ I/M credit 2500/Idle test data
 Bien Insp Freq & TECH 4+ I/M credit IM240 test data
0Functional Check Program Description:
```

0Check Start Model Yrs Vehicle Classes Covered Inspection Comp Eff

	(Janl)	Covered	LDGV	LDGT1	LDGT2	HDGV	Type	Freq	Rate	Adj
Press	1983	1975-2020	Yes	Yes	Yes	No	Test Only	Biennial	96.0%	1.00
Purge	1983	1981-2020	Yes	Yes	Yes	No	Test Only	Biennial	96.0%	1.00
ATP	1983	1975-2020	Yes	Yes	Yes	No	Test Only	Biennial	96.0%	1.00

0Air pump system disablements: Yes Catalyst removals: Yes
Fuel inlet restrictor disablements: Yes Tailpipe lead deposit test: No
EGR disablement: No Evaporative system disablements: No
PCV system disablements: No Missing gas caps: No
0Non-methane HC emission factors include all evaporative HC emission factors, except for refueling emissions.
0

0Emission factors are as of Jan. 1st of the indicated calendar year.
0User supplied veh registration distributions.
0Cal. Year: 2001 I/M Program: Yes Ambient Temp: 86.8 / 86.8 / 86.8 (F) Region: Low
Anti-tam. Program: Yes Operating Mode: 20.6 / 27.3 / 20.6 Altitude: 500. Ft.
Reformulated Gas: No
0GWU_HOSPITAL_JUL Minimum Temp: 67. (F) Maximum Temp: 93. (F)
Period 1 RVP: 7.8 Period 2 RVP: 7.8 Period 2 Start Yr: 2000

0 Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Speeds:	25.0	25.0	25.0		25.0	25.0	25.0	25.0	25.0	
VMT Mix:	0.820	0.091	0.014		0.016	0.014	0.000	0.029	0.016	
0Composite Emission Factors (Gm/Mile)										
Non-Meth HC:	0.91	0.83	1.28	0.89	4.24	0.45	0.54	1.76	6.23	1.064
Exhaust HC:	0.62	0.60	0.97	0.65	2.03	0.45	0.54	1.76	1.99	0.695
Evaporat HC:	0.12	0.10	0.14	0.11	1.67				3.72	0.197
Refuel L HC:	0.00	0.00	0.00	0.00	0.00					0.000
Runing L HC:	0.12	0.09	0.12	0.09	0.44					0.118
Rsting L HC:	0.05	0.04	0.05	0.04	0.09				0.52	0.055
Exhaust CO:	8.03	8.07	12.28	8.64	41.77	1.16	0.00	8.90	20.62	8.762
Exhaust NOX:	0.95	0.90	1.43	0.97	4.94	1.12	0.00	9.98	0.85	1.283

0Evaporative Emissions by Component Weathered RVP: 7.4 Hot Soak Temp: 88.6 (F)
(Hot Soak: g/trip, Diurnals: g, Crankcase: g/mi, Refuel: g/gal, Resting: g/hr) Running Loss Temp: 89.5 (F)
Resting Loss Temp: 81.6 (F)

Hot Soak	0.57	0.51	0.68	0.56	6.04				12.37	
WtDiurnal	1.04	1.16	1.90	1.38	21.74				12.90	
Multiple	5.46	5.70	6.92	6.06	31.11					
Crankcase	0.01	0.00	0.00	0.00	0.01				0.00	
Refuel	0.00	0.00	0.00	0.00	0.00					
Resting	0.06	0.05	0.06	0.05	0.10				0.17	

```
'STALBAN TOWER EX AM ENT&G'  60.   175.   0.   0.  9   0.3048   1
1 1 01 12 31 01
99999   64   99999   64
0  0  'U'
'REC 1'     -354.      -36.   6.0
'REC 2'      -50.      -36.   26.5
'REC 3'       50.      -52.   26.5
'REC 4'      310.      -52.   7.0
'REC 5'      258.       36.   7.2
'REC 6'       50.       36.   26.5
'REC 7'      -50.       52.   26.5
'REC 8'     -354.       52.   6.0
'REC 15'    -354.      496.   21.0
1  'C'
1 1 1 1 1 1 1
'STALBAN TOWER PROP. MORNING'    9
1  1
'ENT&G NB DEP    '   'AG'     -364.     23.  -379.     512.  0.   30.
2  1
'ENT&G SB APPR   '   'AG'     -364.    512.  -364.      23.  0.   30.
3  2
'ENT&G SB QUEUE  '   'AG'     -364.     23.  -364.     512.  0.   10.0   1
4  1
'ENT&G WB APPR   '   'AG'       34.      7.  -364.      23.  0.   35.
5  2
'ENT&G WB QUEUE  '   'AG'     -364.     23.    34.       7.  0.   15.0   1
6  1
'ENT&G WB DEP    '   'AG'     -364.     23.  -722.      23.  0.   35.
7  1
'ENT&G EB APPR   '   'AG'     -756.      7.  -424.      23.  0.   35.
8  2
'ENT&G EB QUEUE  '   'AG'     -424.      7.  -756.       7.  0.   15.0   1
9  1
'ENT&G EB DEP    '   'AG'     -424.      7.   -34.       7.  0.   35.
01   0.0
1       15.   46.91
2       74.   46.91
3      90     60     1.0      74   206.96    0  0  3
4      398.   21.47
5      90     30     1.0      398  206.96    0  0  3
6      460.   21.47
7       69.   21.47
8      90     30     1.0      69   206.96    0  0  3
9       66.   21.47
```

JOB: STALBAN TOWER PR AM ENT&G

RUN: STALBAN TOWER PROP. MORNING

General Information

Run start date: 1/ 1/ 1 Julian: 1
end date: 12/31/ 1 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 64
Upper Air Sta. Id & Yr = 99999 64

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1. ENT&G NB DEP	*	-364.0	23.0	-379.0	512.0	*	489.	358.	AG	.0	30.0	
2. ENT&G SB APPR	*	-364.0	512.0	-364.0	23.0	*	489.	180.	AG	.0	30.0	
3. ENT&G SB QUEUE	*	-364.0	23.0	-364.0	512.0	*	489.	360.	AG	.0	10.0	1
4. ENT&G WB APPR	*	34.0	7.0	-364.0	23.0	*	398.	272.	AG	.0	35.0	
5. ENT&G WB QUEUE	*	-364.0	23.0	34.0	7.0	*	398.	92.	AG	.0	15.0	1
6. ENT&G WB DEP	*	-364.0	23.0	-722.0	23.0	*	358.	270.	AG	.0	35.0	
7. ENT&G EB APPR	*	-756.0	7.0	-424.0	23.0	*	332.	87.	AG	.0	35.0	
8. ENT&G EB QUEUE	*	-424.0	7.0	-756.0	7.0	*	332.	270.	AG	.0	15.0	1
9. ENT&G EB DEP	*	-424.0	7.0	-34.0	7.0	*	390.	90.	AG	.0	35.0	

JOB: STALBAN TOWER PR AM ENT&G

RUN: STALBAN TOWER PROP. MORNING

Receptor Data

RECEPTOR	COORDINATES (FT) X	Y	Z
1. REC 1	-354.0	-36.0	6.0
2. REC 2	-50.0	-36.0	26.5
3. REC 3	50.0	-52.0	26.5
4. REC 4	310.0	-52.0	7.0
5. REC 5	258.0	36.0	7.2
6. REC 6	50.0	36.0	26.5
7. REC 7	-50.0	52.0	26.5
8. REC 8	-354.0	52.0	6.0
9. REC 15	-354.0	496.0	21.0

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED

	(PPM) REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9
MAX+BKG	.5	.1	.1	.0	.1	.1	.1	1.3	.1
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.5	.1	.1	.0	.1	.1	.1	1.3	.1
WIND DIR	354	295	295	0	262	257	257	228	178
JULIAN	309	7	7	0	11	1	1	159	7
HOUR	18	16	16	0	7	18	18	20	21

THE HIGHEST CONCENTRATION OF 1.30 PPM OCCURRED AT RECEPTOR REC8 .

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.24	(214, 4)	C 0	.23	(273, 8)	C 0
2	.07	(178, 4)	C 2	.06	(132, 6)	C 0
3	.06	(132, 6)	C 0	.06	(178, 1)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.02	(46, 1)	C 3	.02	(192, 6)	C 2
6	.10	(299, 2)	C 2	.09	(22, 2)	C 1
7	.07	(299, 2)	C 2	.06	(181, 7)	C 1
8	.70*	(181, 6)	C 1	.65*	(185, 3)	C 0
9	.05	(22, 9)	C 0	.05	(43,10)	C 2

JOB: STALBAN TOWER PR AM ENT&G

RUN: STALBAN TOWER PROP. MORNING

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr	Highest			Second Highest			Third Highest			Fourth Highest			Fifth Highest		
No.	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm
1	.50	(309,18)	C 0	.40	(7,12)	C 0	.40	(50, 8)	C 0	.40	(83, 5)	C 0	.40	(92,10)	C 0
2	.10	(7,16)	C 0	.10	(11, 3)	C 0	.10	(14, 6)	C 0	.10	(22, 3)	C 0	.10	(23,20)	C 0
3	.10	(7,16)	C 0	.10	(11, 3)	C 0	.10	(14, 6)	C 0	.10	(22, 3)	C 0	.10	(23,20)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.10	(11, 7)	C 0	.10	(46, 1)	C 0	.10	(92, 8)	C 0	.10	(133,21)	C 0	.10	(192, 5)	C 0
6	.10	(1,18)	C 0	.10	(7,15)	C 0	.10	(7,17)	C 0	.10	(7,18)	C 0	.10	(7,19)	C 0
7	.10	(1,18)	C 0	.10	(7,15)	C 0	.10	(7,17)	C 0	.10	(7,18)	C 0	.10	(11, 6)	C 0
8	1.00*	(119,20)	C 0	1.00*	(84,22)	C 0	1.00	(98, 1)	C 0	1.00	(107, 5)	C 0	1.00	(107, 7)	C 0
9	.10	(7,21)	C 0	.10	(11, 4)	C 0	.10	(22, 4)	C 0	.10	(22, 5)	C 0	.10	(22, 6)	C 0

JOB: STALBAN TOWER PR AM ENT&G

RUN: STALBAN TOWER PROP. MORNING

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	188	(7,13)(11, 5)(11,13)(21,24)(23,19)(29, 5)(31, 3)(31, 6)(34,24)(35, 6) (40,18)(42,23)(43, 5)(46, 2)(46,14)(48, 5)(54, 2)(54, 6)(56, 2)(59, 8) (62, 6)(62,23)(71,19)(72,23)(73, 4)(73, 8)(76, 8)(83, 4)(84,23)(85, 1) (105, 7)(110,18)(111,20)(125, 5)(126, 2)(126, 4)(132,21)(136, 8)(137, 4)(137, 6) (143,21)(144, 1)(154, 4)(154, 6)(156, 6)(158, 1)(160,24)(164, 1)(169, 6)(174, 4) (174,20)(175,21)(179, 6)(180, 5)(180,24)(182, 3)(182, 6)(184, 1)(188, 7)(188,24) (190, 2)(190,24)(191, 4)(191, 6)(192, 1)(192, 6)(193, 3)(193,23)(195,24)(198, 8) (199,20)(201,21)(201,24)(202, 2)(202, 5)(202,23)(203, 6)(204, 2)(204, 5)(204, 7) (205,22)(205,24)(206, 2)(206, 4)(210, 5)(212, 2)(214, 9)(214,21)(214,23)(215, 2) (215, 4)(215,21)(228,23)(230, 3)(233, 4)(238, 5)(239,22)(240, 2)(242, 3)(242,21) (242,23)(243, 1)(243,23)(244, 2)(244, 5)(246,22)(246,24)(247, 7)(248, 5)(250,22) (253,21)(255, 1)(257,24)(258, 3)(259,24)(260,21)(261, 1)(261, 6)(261, 8)(261,21) (261,24)(262, 3)(262, 7)(263, 1)(263, 3)(266, 4)(267, 3)(270, 1)(270, 5)(271,21) (273,14)(273,20)(276, 8)(277, 1)(280,23)(285, 8)(285,19)(288,19)(288,22)(289, 7) (289,18)(289,20)(289,24)(291,18)(292, 4)(292, 8)(294, 6)(297,23)(299, 4)(300, 6) (300, 8)(301, 4)(301, 7)(301,19)(302, 5)(306, 7)(306,15)(306,20)(307, 2)(308, 7) (308,22)(309,17)(311,19)(311,21)(312,18)(312,21)(314, 5)(315, 1)(319,11)(319,21) (320,20)(324,15)(329, 4)(329, 6)(336, 8)(338,21)(338,23)(339,11)(344,19)(344,21) (346, 8)(347, 5)(347,16)(356,19)(356,21)(357, 1)(357,23)(363,19)
2	55	(23,24)(24, 3)(29, 8)(36,18)(43, 3)(46, 6)(48,22)(49, 3)(102, 3)(111,24) (125,23)(136, 6)(139, 2)(139, 6)(156, 3)(157,21)(174,23)(193, 1)(196, 4)(198, 6) (198,23)(200,23)(203, 2)(203,22)(205, 1)(205, 5)(205, 8)(208,23)(222,24)(242, 6) (247, 3)(249,24)(250, 3)(250, 6)(250, 9)(261, 4)(262,20)(262,23)(272, 1)(279, 5) (281, 7)(286, 7)(288, 8)(289, 1)(299, 2)(301,23)(302, 2)(302,23)(306,23)(328,22) (329, 9)(344,24)(355,24)(356, 8)(361,10)
3	27	(18,23)(45,24)(49, 7)(53, 7)(102, 7)(107, 2)(144, 6)(160, 7)(180,22)(183, 2) (193, 7)(194, 3)(199,24)(202,21)(209, 4)(218, 3)(228, 7)(230, 7)(243, 6)(280, 5) (281, 3)(289, 5)(301, 2)(312, 7)(320, 4)(329,19)(356, 4)
4	12	(87,24)(170, 2)(198, 3)(209,24)(233, 1)(248, 1)(254,23)(269,23)(280, 1)(300,22) (312, 3)(320, 9)
5	12	(142,24)(143, 6)(147, 2)(169, 4)(178, 7)(188, 4)(189, 6)(228, 3)(254, 6)(286,23) (295, 1)(307, 8)

```
          6              6        ( 59, 6)(199, 6)(238, 2)(259, 3)(288, 5)(298, 6)
          7              3        (229, 7)(286, 3)(310, 2)
          9              2        (220, 6)(252, 5)
         10              3        (253, 7)(305, 9)(309, 9)

Program terminated normally
```

```
'STALBAN TOWER EX PM ENT&G'  60.   175.   0.   0.  9  0.3048   1
1 1 01 12 31 01
99999   64   99999   64
0  0  'U'
'REC 1'    -354.     -36.   6.0
'REC 2'     -50.     -36.   26.5
'REC 3'      50.     -52.   26.5
'REC 4'     310.     -52.   7.0
'REC 5'     258.      36.   7.2
'REC 6'      50.      36.   26.5
'REC 7'     -50.      52.   26.5
'REC 8'    -354.      52.   6.0
'REC 15'   -354.     496.   21.0
1  'C'
1 1 1 1 1 1 1
'STALBAN TOWER PROP. EVENING'    9
1  1
'ENT&G NB DEP   '   'AG'     -364.     23.  -379.     512.  0.   30.
2  1
'ENT&G SB APPR  '   'AG'     -364.    512.  -364.      23.  0.   30.
3  2
'ENT&G SB QUEUE '   'AG'     -364.     23.  -364.     512.  0.   10.0   1
4  1
'ENT&G WB APPR  '   'AG'       34.      7.  -364.      23.  0.   35.
5  2
'ENT&G WB QUEUE '   'AG'     -364.     23.    34.       7.  0.   15.0   1
6  1
'ENT&G WB DEP   '   'AG'     -364.     23.  -722.      23.  0.   35.
7  1
'ENT&G EB APPR  '   'AG'     -756.      7.  -424.      23.  0.   35.
8  2
'ENT&G EB QUEUE '   'AG'     -424.      7.  -756.       7.  0.   15.0   1
9  1
'ENT&G EB DEP   '   'AG'     -424.      7.   -34.       7.  0.   35.
01   0.0
1       73.   46.91
2       35.   46.91
3      90     60     1.0      35   206.96    0  0  3
4      128.   21.47
5      90     30     1.0     128   206.96    0  0  3
6      137.   21.47
7      196.   21.47
8      90     30     1.0     196   206.96    0  0  3
9      149.   21.47
```

JOB: STALBAN TOWER PR PM ENT&G

RUN: STALBAN TOWER PROP. EVENING

General Information

Run start date: 1/ 1/ 1 Julian: 1
end date: 12/31/ 1 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 64
Upper Air Sta. Id & Yr = 99999 64

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	LINK COORDINATES (FT) X1	Y1	X2	Y2	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1. ENT&G NB DEP	-364.0	23.0	-379.0	512.0	489.	358.	AG	.0	30.0	
2. ENT&G SB APPR	-364.0	512.0	-364.0	23.0	489.	180.	AG	.0	30.0	
3. ENT&G SB QUEUE	-364.0	23.0	-364.0	512.0	489.	360.	AG	.0	10.0	1
4. ENT&G WB APPR	34.0	7.0	-364.0	23.0	398.	272.	AG	.0	35.0	
5. ENT&G WB QUEUE	-364.0	23.0	34.0	7.0	398.	92.	AG	.0	15.0	1
6. ENT&G WB DEP	-364.0	23.0	-722.0	23.0	358.	270.	AG	.0	35.0	
7. ENT&G EB APPR	-756.0	7.0	-424.0	23.0	332.	87.	AG	.0	35.0	
8. ENT&G EB QUEUE	-424.0	7.0	-756.0	7.0	332.	270.	AG	.0	15.0	1
9. ENT&G EB DEP	-424.0	7.0	-34.0	7.0	390.	90.	AG	.0	35.0	

JOB: STALBAN TOWER PR PM ENT&G

RUN: STALBAN TOWER PROP. EVENING

Receptor Data

RECEPTOR	COORDINATES (FT) X	Y	Z
1. REC 1	-354.0	-36.0	6.0
2. REC 2	-50.0	-36.0	26.5
3. REC 3	50.0	-52.0	26.5
4. REC 4	310.0	-52.0	7.0
5. REC 5	258.0	36.0	7.2
6. REC 6	50.0	36.0	26.5
7. REC 7	-50.0	52.0	26.5
8. REC 8	-354.0	52.0	6.0
9. REC 15	-354.0	496.0	21.0

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED (PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9
MAX+BKG	.3	.0	.0	.0	.0	.0	.0	.7	.1
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.3	.0	.0	.0	.0	.0	.0	.7	.1
WIND DIR	355	0	0	0	0	0	0	228	178
JULIAN	192	0	0	0	0	0	0	159	7
HOUR	7	0	0	0	0	0	0	20	21

THE HIGHEST CONCENTRATION OF .70 PPM OCCURRED AT RECEPTOR REC8 .

JOB: STALBAN TOWER EX PM ENT&G

RUN: STALBAN TOWER PROP. EVENING

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.07	(288,23)	C 2	.07	(192, 7)	C 2
2	.00	(1, 0)	C 0	.00	(1, 0)	C 0
3	.00	(1, 0)	C 0	.00	(1, 0)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.00	(1, 0)	C 0	.00	(1, 0)	C 0
6	.00	(1, 0)	C 0	.00	(1, 0)	C 0
7	.00	(1, 0)	C 0	.00	(1, 0)	C 0
8	.30*	(22, 9)	C 0	.29*	(140, 5)	C 0
9	.05	(43,10)	C 2	.05	(302, 3)	C 4

JOB: STALBAN TOWER PR PM ENT&G

RUN: STALBAN TOWER PROP. EVENING

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Conc	Highest Ending Day Hr	Highest Calm	Second Highest Conc	Second Highest Ending Day Hr	Second Highest Calm	Third Highest Conc	Third Highest Ending Day Hr	Third Highest Calm	Fourth Highest Conc	Fourth Highest Ending Day Hr	Fourth Highest Calm	Fifth Highest Conc	Fifth Highest Ending Day Hr	Fifth Highest Calm
1	.30	(192, 7)	C 0	.30	(194,10)	C 0	.30	(211,24)	C 0	.30	(236,20)	C 0	.30	(288,20)	C 0
2	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
3	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
6	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
7	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
8	.70*	(159,20)	C 0	.60*	(22, 9)	C 0	.50	(22, 4)	C 0	.50	(22, 5)	C 0	.50	(23,18)	C 0
9	.10	(7,21)	C 0	.10	(22, 4)	C 0	.10	(22, 5)	C 0	.10	(22, 6)	C 0	.10	(23,18)	C 0

JOB: STALBAN TOWER PR PM ENT&G

RUN: STALBAN TOWER PROP. EVENING

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	188	(7,13)(11, 5)(11,13)(21,24)(23,19)(29, 5)(31, 3)(31, 6)(34,24)(35, 6) (40,18)(42,23)(43, 5)(46, 2)(46,14)(48, 5)(54, 2)(54, 6)(56, 2)(59, 8) (62, 6)(62,23)(71,19)(72,23)(73, 4)(73, 8)(76, 8)(83, 4)(84,23)(85, 1) (105, 7)(110,18)(111,20)(125, 5)(126, 2)(126, 4)(132,21)(136, 8)(137, 4)(137, 6) (143,21)(144, 1)(154, 4)(154, 6)(156, 6)(158, 1)(160,24)(164, 1)(169, 6)(174, 4) (174,20)(175,21)(179, 6)(180, 5)(180,24)(182, 3)(182, 6)(184, 1)(188, 7)(188,24) (190, 2)(190,24)(191, 4)(191, 6)(192, 1)(192, 6)(193, 3)(193,23)(195,24)(198, 8) (199,20)(201,21)(201,24)(202, 2)(202, 5)(202,23)(203, 6)(204, 2)(204, 5)(204, 7) (205,22)(205,24)(206, 2)(206, 4)(210, 5)(212, 2)(214, 9)(214,21)(214,23)(215, 2) (215, 4)(215,21)(228,23)(230, 3)(233, 4)(238, 5)(239,22)(240, 2)(242, 3)(242,21) (242,23)(243, 1)(243,23)(244, 2)(244, 5)(246,22)(246,24)(247, 7)(248, 5)(250,22) (253,21)(255, 1)(257,24)(258, 3)(259,24)(260,21)(261, 1)(261, 6)(261, 8)(261,21) (261,24)(262, 3)(262, 7)(263, 1)(263, 3)(266, 4)(267, 3)(270, 1)(270, 5)(271,21) (273,14)(273,20)(276, 8)(277, 1)(280,23)(285, 8)(285,19)(288,19)(288,22)(289, 7) (289,18)(289,20)(289,24)(291,18)(292, 4)(292, 8)(294, 6)(297,23)(299, 4)(300, 6) (300, 8)(301, 4)(301, 7)(301,19)(302, 5)(306, 7)(306,15)(306,20)(307, 2)(308, 7) (308,22)(309,17)(311,19)(311,21)(312,18)(312,21)(314, 5)(315, 1)(319,11)(319,21) (320,20)(324,15)(329, 4)(329, 6)(336, 8)(338,21)(338,23)(339,11)(344,19)(344,21) (346, 8)(347, 5)(347,16)(356,19)(356,21)(357, 1)(357,23)(363,19)
2	55	(23,24)(24, 3)(29, 8)(36,18)(43, 3)(46, 6)(48,22)(49, 3)(102, 3)(111,24) (125,23)(136, 6)(139, 2)(139, 6)(156, 3)(157,21)(174,23)(193, 1)(196, 4)(198, 6) (198,23)(200,23)(203, 2)(203,22)(205, 1)(205, 5)(205, 8)(208,23)(222,24)(242, 6) (247, 3)(249,24)(250, 3)(250, 6)(250, 9)(261, 4)(262,20)(262,23)(272, 1)(279, 5) (281, 7)(286, 7)(288, 8)(289, 1)(299, 2)(301,23)(302, 2)(302,23)(306,23)(328,22) (329, 9)(344,24)(355,24)(356, 8)(361,10)
3	27	(18,23)(45,24)(49, 7)(53, 7)(102, 7)(107, 2)(144, 6)(160, 7)(180,22)(183, 2) (193, 7)(194, 3)(199,24)(202,21)(209, 4)(218, 3)(228, 7)(230, 7)(243, 6)(280, 5) (281, 3)(289, 5)(301, 2)(312, 7)(320, 4)(329,19)(356, 4)
4	12	(87,24)(170, 2)(198, 3)(209,24)(233, 1)(248, 1)(254,23)(269,23)(280, 1)(300,22) (312, 3)(320, 9)
	12	(142,24)(143, 6)(147, 2)(169, 4)(178, 7)(188, 4)(189, 6)(228, 3)(254, 6)(286,23) (295, 1)(307, 8)
	6	(59, 6)(199, 6)(238, 2)(259, 3)(288, 5)(298, 6)

```
          7               3         (229, 7)(286, 3)(310, 2)
          9               2         (220, 6)(252, 5)
         10               3         (253, 7)(305, 9)(309, 9)

Program terminated normally
```

MOBILE5B
JUNE
20MPH

```
1MOBILE5B GWU HOSPITAL
 MOBILE5b (14-Sep-96)
0
-M 49 Warning:
+               0.997     MYR sum not = 1. (will normalize)
-M 49 Warning:
+                1.00     MYR sum not = 1. (will normalize)
-M 49 Warning:
+                1.00     MYR sum not = 1. (will normalize)
-M 49 Warning:
+               0.997     MYR sum not = 1. (will normalize)
-M 49 Warning:
+                1.00     MYR sum not = 1. (will normalize)
-M 49 Warning:
+               0.999     MYR sum not = 1. (will normalize)
-M170 Warning:
+              Exhaust emissions for gasoline fueled vehicles
              beginning in 1995 have been reduced as a result of
              Gasoline Detergent Additive Regulations (1994).
0I/M program #1 selected:                    I/M program #2 selected:

0Start year (Jan 1):  1983                   Start year (Jan 1):  1983
 Pre-1981 stringency: 40%                    Pre-1981 stringency: 40%
 First MYR covered:   1968                   First MYR covered:   1981
 Last MYR covered:    2020                   Last MYR covered:    2020
 Waiver (pre-1981):    3.%                   Waiver (pre-1981):    3.%
 Waiver (1981+):       3.%                   Waiver (1981+):       3.%
 Compliance Rate:     96.%                   Compliance Rate:     96.%
 Inspection type:                            Inspection type:
 Test Only                                   Test Only
 Inspection frequency: Biennial              Inspection frequency: Biennial
 I/M program #1 vehicle types                I/M program #2 vehicle types
     LDGV - Yes                                  LDGV - Yes
     LDGT1 - Yes                                 LDGT1 - Yes
     LDGT2 - No                                  LDGT2 - Yes
     HDGV - No                                   HDGV - No
 1981 & later MYR test type:                 1981 & later MYR test type:
      2500 rpm / Idle                             IM240 test
 Cutpoints, HC:   220.000                    Cutpoints, HC:     0.800
 Cutpoints, CO:     1.200                    Cutpoints, CO:    20.000
 Cutpoints, NOx:  999.000                    Cutpoints, NOx:    2.000

  Low alt, Annl and Bien Insp Freq TECH 1 & 2 I/M cred data
 Bien Insp Freq & TECH 4+ I/M credit 2500/Idle test data
 Bien Insp Freq & TECH 4+ I/M credit IM240 test data
0Functional Check Program Description:
```

```
0Check Start Model Yrs Vehicle Classes Covered    Inspection        Comp   Eff
      (Jan1) Covered   LDGV LDGT1 LDGT2 HDGV   Type        Freq     Rate   Adj
 Press 1983  1975-2020 Yes  Yes   Yes   No   Test Only     Biennial 96.0%  1.00
 Purge 1983  1981-2020 Yes  Yes   Yes   No   Test Only     Biennial 96.0%  1.00
 ATP   1983  1975-2020 Yes  Yes   Yes   No   Test Only     Biennial 96.0%  1.00
0Air pump system disablements:       Yes  Catalyst removals:                  Yes
 Fuel inlet restrictor disablements: Yes  Tailpipe lead deposit test:         No
 EGR disablement:                    No   Evaporative system disablements:    No
 PCV system disablements:            No   Missing gas caps:                   No
0Non-methane HC emission factors include all evaporative HC emission factors, except for refueling emissions.
0
0Emission factors are as of Jan. 1st of the indicated calendar year.
0User supplied veh registration distributions.
0Cal. Year: 2001        I/M Program: Yes       Ambient Temp: 86.8 / 86.8 / 86.8 (F) Region: Low
                Anti-tam. Program: Yes     Operating Mode: 20.6 / 27.3 / 20.6   Altitude:  500. Ft.
                 Reformulated Gas: No
0GWU_HOSPITAL_JUL                          Minimum Temp:  67. (F)        Maximum Temp:  93. (F)
                      Period 1 RVP:  7.8     Period 2 RVP:  7.8       Period 2 Start Yr: 2000
0  Veh. Type:     LDGV      LDGT1     LDGT2      LDGT      HDGV      LDDV      LDDT      HDDV      MC      All Veh
+
 Veh. Speeds:     20.0      20.0      20.0                 20.0      20.0      20.0      20.0      20.0
    VMT Mix:     0.820     0.091     0.014                0.016     0.014     0.000     0.029     0.016
0Composite Emission Factors (Gm/Mile)
 Non-Meth HC:     1.08      0.97      1.51      1.04       5.05      0.54      0.64      2.10      6.56     1.247
 Exhaust  HC:     0.76      0.72      1.17      0.78       2.74      0.54      0.64      2.10      2.32     0.853
 Evaporat HC:     0.12      0.10      0.14      0.11       1.67                                    3.72     0.197
 Refuel L HC:     0.00      0.00      0.00      0.00       0.00                                             0.000
 Runing L HC:     0.15      0.11      0.15      0.11       0.55                                             0.143
 Rsting L HC:     0.05      0.04      0.05      0.04       0.09                                    0.52     0.055
 Exhaust  CO:    10.37     10.23     15.36     10.92      53.23      1.47      0.00     11.26     25.86    11.258
 Exhaust NOX:     0.93      0.89      1.41      0.96       4.73      1.21      0.00     10.81      0.77     1.284
0Evaporative Emissions by Component          Weathered RVP:  7.4          Hot Soak Temp:  88.6 (F)
 (Hot Soak: g/trip, Diurnals: g, Crankcase: g/mi, Refuel: g/gal, Resting: g/hr)   Running Loss Temp:  89.5 (F)
                                                                                  Resting Loss Temp:  81.6 (F)
 Hot Soak         0.57      0.51      0.68      0.56       6.04                                    12.37
 WtDiurnal        1.04      1.16      1.90      1.38      21.74                                    12.90
 Multiple         5.46      5.70      6.92      6.06      31.11
 Crankcase        0.01      0.00      0.00      0.00       0.01                                    0.00
 Refuel           0.00      0.00      0.00      0.00       0.00
 Resting          0.06      0.05      0.06      0.05       0.10                                    0.17
```

MOBILE5B
JUNE
15MPH

```
1MOBILE5B GWU HOSPITAL
 MOBILE5b (14-Sep-96)
0
-M 49 Warning:
+               0.997     MYR sum not = 1. (will normalize)
-M 49 Warning:
+                1.00     MYR sum not = 1. (will normalize)
-M 49 Warning:
+                1.00     MYR sum not = 1. (will normalize)
-M 49 Warning:
+               0.997     MYR sum not = 1. (will normalize)
-M 49 Warning:
+                1.00     MYR sum not = 1. (will normalize)
-M 49 Warning:
+               0.999     MYR sum not = 1. (will normalize)
-M170 Warning:
+              Exhaust emissions for gasoline fueled vehicles
              beginning in 1995 have been reduced as a result of
              Gasoline Detergent Additive Regulations (1994).
0I/M program #1 selected:                    I/M program #2 selected:

0Start year (Jan 1):  1983                   Start year (Jan 1):  1983
 Pre-1981 stringency: 40%                    Pre-1981 stringency: 40%
 First MYR covered:   1968                   First MYR covered:   1981
 Last MYR covered:    2020                   Last MYR covered:    2020
 Waiver (pre-1981):    3.%                   Waiver (pre-1981):    3.%
 Waiver (1981+):       3.%                   Waiver (1981+):       3.%
 Compliance Rate:     96.%                   Compliance Rate:     96.%
 Inspection type:                            Inspection type:
 Test Only                                   Test Only
 Inspection frequency: Biennial              Inspection frequency: Biennial
 I/M program #1 vehicle types                I/M program #2 vehicle types
     LDGV - Yes                                  LDGV - Yes
     LDGT1 - Yes                                 LDGT1 - Yes
     LDGT2 - No                                  LDGT2 - Yes
     HDGV - No                                   HDGV - No
 1981 & later MYR test type:                 1981 & later MYR test type:
      2500 rpm / Idle                             IM240 test
 Cutpoints, HC:   220.000                    Cutpoints, HC:     0.800
 Cutpoints, CO:     1.200                    Cutpoints, CO:    20.000
 Cutpoints, NOx:  999.000                    Cutpoints, NOx:    2.000

  Low alt, Annl and Bien Insp Freq TECH 1 & 2 I/M cred data
 Bien Insp Freq & TECH 4+ I/M credit 2500/Idle test data
 Bien Insp Freq & TECH 4+ I/M credit IM240 test data
0Functional Check Program Description:
```

```
0Check Start Model Yrs Vehicle Classes Covered    Inspection          Comp    Eff
      (Jan1) Covered   LDGV LDGT1 LDGT2 HDGV   Type          Freq      Rate    Adj
 Press 1983  1975-2020 Yes  Yes   Yes   No   Test Only     Biennial  96.0%   1.00
 Purge 1983  1981-2020 Yes  Yes   Yes   No   Test Only     Biennial  96.0%   1.00
 ATP   1983  1975-2020 Yes  Yes   Yes   No   Test Only     Biennial  96.0%   1.00
0Air pump system disablements:       Yes  Catalyst removals:                  Yes
 Fuel inlet restrictor disablements: Yes  Tailpipe lead deposit test:         No
 EGR disablement:                    No   Evaporative system disablements:    No
 PCV system disablements:            No   Missing gas caps:                   No
0Non-methane HC emission factors include all evaporative HC emission factors, except for refueling emissions.
0
```

```
0Emission factors are as of Jan. 1st of the indicated calendar year.
0User supplied veh registration distributions.
0Cal. Year: 2001        I/M Program: Yes      Ambient Temp: 86.8 / 86.8 / 86.8 (F) Region: Low
                Anti-tam. Program: Yes      Operating Mode: 20.6 / 27.3 / 20.6   Altitude:  500. Ft.
                 Reformulated Gas: No
0GWU_HOSPITAL_JUL                          Minimum Temp:  67. (F)        Maximum Temp:  93. (F)
                    Period 1 RVP:  7.8     Period 2 RVP:  7.8       Period 2 Start Yr: 2000
0  Veh. Type:     LDGV     LDGT1    LDGT2     LDGT     HDGV     LDDV     LDDT     HDDV     MC      All Veh
+
 Veh. Speeds:    15.0     15.0     15.0               15.0     15.0     15.0     15.0     15.0
    VMT Mix:     0.820    0.091    0.014              0.016    0.014    0.000    0.029    0.016
0Composite Emission Factors (Gm/Mile)
 Non-Meth HC:    1.33     1.20     1.86     1.29      6.39     0.65     0.78     2.56     7.10     1.526
 Exhaust  HC:    0.91     0.87     1.41     0.94      3.84     0.65     0.78     2.56     2.86     1.033
 Evaporat HC:    0.12     0.10     0.14     0.11      1.67                         3.72     0.197
 Refuel L HC:    0.00     0.00     0.00     0.00      0.00                                  0.000
 Runing L HC:    0.25     0.19     0.26     0.20      0.78                                  0.242
 Rsting L HC:    0:05     0.04     0.05     0.04      0.09                         0.52     0.055
 Exhaust  CO:   12.38    12.04    18.40    12.89     71.68     1.94     0.00    14.90    34.41    13.659
 Exhaust NOX:    0.95     0.91     1.44     0.98      4.52     1.36     0.00    12.14     0.70     1.337
0Evaporative Emissions by Component          Weathered RVP:  7.4          Hot Soak Temp:  88.6 (F)
 (Hot Soak: g/trip, Diurnals: g, Crankcase: g/mi, Refuel: g/gal, Resting: g/hr)   Running Loss Temp:  89.5 (F)
                                                                              Resting Loss Temp:  81.6 (F)
 Hot Soak        0.57     0.51     0.68     0.56      6.04                         12.37
 WtDiurnal       1.04     1.16     1.90     1.38     21.74                         12.90
 Multiple        5.46     5.70     6.92     6.06     31.11
 Crankcase       0.01     0.00     0.00     0.00      0.01                         0.00
 Refuel          0.00     0.00     0.00     0.00      0.00
 Resting         0.06     0.05     0.06     0.05      0.10                         0.17
```

MOBILE 5B
JUNE
IDLE

```
1MOBILE5B GWU HOSPITAL
 MOBILE5b (14-Sep-96)
0
-M 49 Warning:
+                0.997      MYR sum not = 1. (will normalize)
-M 49 Warning:
+                 1.00      MYR sum not = 1. (will normalize)
-M 49 Warning:
+                 1.00      MYR sum not = 1. (will normalize)
-M 49 Warning:
+                0.997      MYR sum not = 1. (will normalize)
-M 49 Warning:
+                 1.00      MYR sum not = 1. (will normalize)
-M 49 Warning:
+                0.999      MYR sum not = 1. (will normalize)
-M170 Warning:
+               Exhaust emissions for gasoline fueled vehicles
               beginning in 1995 have been reduced as a result of
               Gasoline Detergent Additive Regulations (1994).
0I/M program #1 selected:                    I/M program #2 selected:

0Start year (Jan 1):  1983                   Start year (Jan 1):  1983
 Pre-1981 stringency: 40%                    Pre-1981 stringency: 40%
 First MYR covered:   1968                   First MYR covered:   1981
 Last MYR covered:    2020                   Last MYR covered:    2020
 Waiver (pre-1981):    3.%                   Waiver (pre-1981):    3.%
 Waiver (1981+):       3.%                   Waiver (1981+):       3.%
 Compliance Rate:     96.%                   Compliance Rate:     96.%
 Inspection type:                            Inspection type:
 Test Only                                   Test Only
 Inspection frequency: Biennial              Inspection frequency: Biennial
 I/M program #1 vehicle types                I/M program #2 vehicle types
      LDGV - Yes                                  LDGV - Yes
     LDGT1 - Yes                                 LDGT1 - Yes
     LDGT2 - No                                  LDGT2 - Yes
      HDGV - No                                   HDGV - No
 1981 & later MYR test type:                 1981 & later MYR test type:
      2500 rpm / Idle                             IM240 test
 Cutpoints, HC:   220.000                    Cutpoints, HC:     0.800
 Cutpoints, CO:     1.200                    Cutpoints, CO:    20.000
 Cutpoints, NOx:  999.000                    Cutpoints, NOx:    2.000

  Low alt, Annl and Bien Insp Freq TECH 1 & 2 I/M cred data
 Bien Insp Freq & TECH 4+ I/M credit 2500/Idle test data
 Bien Insp Freq & TECH 4+ I/M credit IM240 test data
0Functional Check Program Description:
```

```
0Check Start Model Yrs Vehicle Classes Covered    Inspection          Comp   Eff
      (Jan1) Covered   LDGV LDGT1 LDGT2 HDGV   Type          Freq      Rate   Adj
 Press 1983  1975-2020 Yes  Yes   Yes   No  Test Only     Biennial  96.0%  1.00
 Purge 1983  1981-2020 Yes  Yes   Yes   No  Test Only     Biennial  96.0%  1.00
 ATP   1983  1975-2020 Yes  Yes   Yes   No  Test Only     Biennial  96.0%  1.00
0Air pump system disablements:       Yes  Catalyst removals:                  Yes
 Fuel inlet restrictor disablements: Yes  Tailpipe lead deposit test:         No
 EGR disablement:                    No   Evaporative system disablements:    No
 PCV system disablements:            No   Missing gas caps:                   No
0Non-methane HC emission factors include all evaporative HC emission factors, except for refueling emissions.
0
```

```
0Emission factors are as of Jan. 1st of the indicated calendar year.
0User supplied veh registration distributions.
0Cal. Year: 2001        I/M Program: Yes       Ambient Temp: 86.8 / 86.8 / 86.8 (F) Region: Low
                Anti-tam. Program: Yes     Operating Mode: 20.6 / 27.3 / 20.6   Altitude:  500. Ft.
                 Reformulated Gas: No
0GWU_HOSPITAL_JUL                          Minimum Temp:  67. (F)        Maximum Temp:  93. (F)
                      Period 1 RVP:  7.8   Period 2 RVP:  7.8      Period 2 Start Yr: 2000
```

0 Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Speeds:	2.5	2.5	2.5		2.5	2.5	2.5	2.5	2.5	
VMT Mix:	0.820	0.091	0.014		0.016	0.014	0.000	0.029	0.016	
0Composite Emission Factors (Gm/Mile)										
Non-Meth HC:	6.03	5.53	8.89	5.98	24.20	1.18	1.41	4.63	16.17	6.372
Exhaust HC:	3.71	3.61	6.14	3.94	10.77	1.18	1.41	4.63	11.92	3.972
Evaporat HC:	0.12	0.10	0.14	0.11	1.67				3.72	0.197
Refuel L HC:	0.00	0.00	0.00	0.00	0.00					0.000
Runing L HC:	2.15	1.78	2.57	1.89	11.66					2.148
Rsting L HC:	0.05	0.04	0.05	0.04	0.09				0.52	0.055
Exhaust CO:	49.48	45.79	77.05	49.96	191.83	4.78	0.00	36.69	191.41	53.080
Exhaust NOX:	1.40	1.34	2.11	1.44	4.00	2.13	0.00	18.94	0.85	1.953

```
0Evaporative Emissions by Component          Weathered RVP:  7.4          Hot Soak Temp: 88.6 (F)
 (Hot Soak: g/trip, Diurnals: g, Crankcase: g/mi, Refuel: g/gal, Resting: g/hr)   Running Loss Temp: 89.5 (F)
                                                                          Resting Loss Temp: 81.6 (F)
```

Hot Soak	0.57	0.51	0.68	0.56	6.04				12.37	
WtDiurnal	1.04	1.16	1.90	1.38	21.74				12.90	
Multiple	5.46	5.70	6.92	6.06	31.11					
Crankcase	0.01	0.00	0.00	0.00	0.01				0.00	
Refuel	0.00	0.00	0.00	0.00	0.00					
Resting	0.06	0.05	0.06	0.05	0.10				0.17	