

***** SCREEN3 MODEL *****

**** VERSION DATED 96043 ****

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):

Manson 14-10-13-28

ENTER SOURCE TYPE: P FOR POINT

F FOR FLARE

A FOR AREA

V FOR VOLUME

ALSO ENTER ANY OF THE FOLLOWING OPTIONS ON THE SAME LINE:

N - TO USE THE NON-REGULATORY BUT CONSERVATIVE BRODE 2

MIXING HEIGHT OPTION,

nn.n - TO USE AN ANEMOMETER HEIGHT OTHER THAN THE REGULATORY

(DEFAULT) 10 METER HEIGHT.

SS - TO USE A NON-REGULATORY CAVITY CALCULATION ALTERNATIVE

Example - PN 7.0 SS (entry for a point source)

ENTER SOURCE TYPE AND ANY OF THE ABOVE OPTIONS:

P

ENTER EMISSION RATE (G/S):

0.00001886

ENTER STACK HEIGHT (M):

8

ENTER STACK INSIDE DIAMETER (M):

.0762

ENTER STACK GAS EXIT VELOCITY OR FLOW RATE:

OPTION 1 : EXIT VELOCITY (M/S):

DEFAULT - ENTER NUMBER ONLY

OPTION 2 : VOLUME FLOW RATE (M**3/S):

EXAMPLE "VM=20.00"

OPTION 3 : VOLUME FLOW RATE (ACFM):

EXAMPLE "VF=1000.00"

1.828

ENTER STACK GAS EXIT TEMPERATURE (K):

293

ENTER AMBIENT AIR TEMPERATURE (USE 293 FOR DEFAULT) (K):

293

ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):

0

ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):

R

CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:

N

USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?

ENTER Y OR N:

N

USE SIMPLE TERRAIN SCREEN WITH TERRAIN ABOVE STACK BASE?

ENTER Y OR N:

N

ENTER CHOICE OF METEOROLOGY;

1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)

2 - INPUT SINGLE STABILITY CLASS

3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

1

USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:

Y

ENTER MIN AND MAX DISTANCES TO USE (M):

0,2000

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST	CONC	U10M	USTK	MIX HT	PLUME	SIGMA	SIGMA		
(M)	(UG/M**3)	STAB (M/S)	(M/S)	(M)	HT (M)	Y (M)	Z (M)	DWASH	

1.	.0000	1	1.0	1.0	320.0	8.42	.42	.20	NO
100.	.3414E-01	3	1.0	1.0	320.0	8.42	12.46	7.44	NO
200.	.3331E-01	5	1.0	1.0	10000.0	8.42	11.63	6.24	NO
300.	.3	101E-01	6	1.0	1.0	10000.0	8.42	11.23	5.63 NO
400.	.2852E-01	6	1.0	1.0	10000.0	8.42	14.64	7.05	NO

500.	.2408E-01	6	1.0	1.0	10000.0	8.42	17.97	8.40	NO
600.	.2001E-01	6	1.0	1.0	10000.0	8.42	21.24	9.69	NO
700.	.1669E-01	6	1.0	1.0	10000.0	8.42	24.46	10.93	NO
800.	.1417E-01	6	1.0	1.0	10000.0	8.42	27.63	11.98	NO
900.	.1218E-01	6	1.0	1.0	10000.0	8.42	30.78	12.98	NO
1000.	.1058E-01	6	1.0	1.0	10000.0	8.42	33.88	13.95	NO
1100.	.9326E-02	6	1.0	1.0	10000.0	8.42	36.96	14.82	NO
1200.	.8292E-02	6	1.0	1.0	10000.0	8.42	40.02	15.66	NO
1300.	.7431E-02	6	1.0	1.0	10000.0	8.42	43.04	16.47	NO
1400.	.6706E-02	6	1.0	1.0	10000.0	8.42	46.05	17.26	NO
1500.	.6090E-02	6	1.0	1.0	10000.0	8.42	49.03	18.03	NO
1600.	.5560E-02	6	1.0	1.0	10000.0	8.42	51.99	18.78	NO
1700.	.5102E-02	6	1.0	1.0	10000.0	8.42	54.94	19.52	NO
1800.	.4702E-02	6	1.0	1.0	10000.0	8.42	57.87	20.23	NO
1900.	.4351E-02	6	1.0	1.0	10000.0	8.42	60.78	20.94	NO
2000.	.4041E-02	6	1.0	1.0	10000.0	8.42	63.68	21.63	NO

ITERATING TO FIND MAXIMUM CONCENTRATION . . .

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 1. M:

78.	.3732E-01	3	1.0	1.0	320.0	8.42	10.02	6.00	NO
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USE DISCRETE DISTANCES? ENTER Y OR N:

N

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION	MAX CONC	DIST TO	TERRAIN
PROCEDURE	(UG/M**3)	MAX (M)	HT (M)

SIMPLE TERRAIN	.3732E-01	78.	0.
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** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N: