

DATA APPENDIX TO  
THE BEHAVIOR OF LNG VAPOR CLOUDS:  
Wind-Tunnel Tests on the Modeling  
of Heavy Plume Dispersion

FINAL REPORT

(July 1979 - September 1981)

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CER81-82DEN-RNM25

For

GAS RESEARCH INSTITUTE

Contract No. 5014-352-0203

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March 1982

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<b>REPORT DOCUMENTATION PAGE</b>	<b>1. REPORT NO.</b>	<b>2.</b>	<b>3. Recipient's Accession No.</b>
<b>4. Title and Subtitle</b> DATA APPENDIX TO THE BEHAVIOR OF LNG VAPOR CLOUDS: Wind-Tunnel Tests on the Modeling of Heavy Plume Dispersion			<b>5. Report Date</b> March 1982
<b>7. Author(s)</b> D. E. Neff and R. N. Meroney			<b>6.</b>
<b>9. Performing Organization Name and Address</b> Civil Engineering Department Colorado State University Fort Collins, Colorado 80523			<b>8. Performing Organization Rept. No.</b> CER81-82DEN-RNM25
<b>12. Sponsoring Organization Name and Address</b> Gas Research Institute 8600 West Bryn Mawr Avenue Chicago Illinois 60631			<b>10. Project/Task/Work Unit No.</b>
<b>15. Supplementary Notes</b>			<b>11. Contract(C) or Grant(G) No.</b> (C) 5014-352-0203 (G)
<b>16. Abstract (Limit: 200 words)</b>  Visual and concentration measurements were made for a large number of continuous ground-level releases of heavy gases into a wind-tunnel boundary layer. These different plumes were not affected by any topographic or building wake influences. The experiments provided a broad coverage of the variable range of source gas specific gravity, source gas flow rate, and approach flow wind speed. From an investigation of the physical similarity between plumes, the permissible modeling distortion in source density, volume flux ratio, and length scale ratio was quantified. The concentration scaling theory which was previously limited to far-field behavior was extended to cover the entire range of plume concentrations. Generalized behavior models were constructed from the laboratory tests. These models were scaled up to atmospheric conditions. The range of atmospheric scenarios to which these laboratory data are applicable is summarized. Measurements on the behavior of transient dense plumes were also obtained.			<b>13. Type of Report &amp; Period Covered</b> Final (July 1979 - September 1981)
<b>17. Document Analysis a. Descriptors</b>  Liquefied Natural Gas, wind tunnel, dispersion of heavy plumes, vapor cloud dispersion			
<b>b. Identifiers/Open-Ended Terms</b>			
<b>c. COSATI Field/Group</b>			
<b>18. Availability Statement:</b>  Distribution Unlimited		<b>19. Security Class (This Report)</b> Unclassified	<b>21. No. of Pages</b> 120
		<b>20. Security Class (This Page)</b> Unclassified	<b>22. Price</b>

## RESEARCH SUMMARY

Title	Data Appendix to the Behavior of LNG Vapor Clouds: Wind-Tunnel Tests on the Modeling of Heavy Plume Dispersion
Contractor	Civil Engineering Department Colorado State University Fort Collins, Colorado 80523 GRI Contract Number: 5014-352-0203
Principal Investigators	D. E. Neff and R. N. Meroney
Report Period	July 1979 - September 1981 Final Report
Objective	The objective of this task was to simulate in a wind tunnel idealized LNG spills to improve knowledge of physical modeling similarity and provide empirical descriptions of plume behavior that are applicable to a large range of atmospheric plume scenarios.
Technical Perspective	When liquefied natural gas (LNG) spills from a storage vessel or transportation container. The LNG vaporizes and a potentially flammable cloud is formed. Techniques to predict the extent of the flammable zone are needed to assist in developing siting criteria and plant layout design.
Results	An extensive data base on the structure of different laboratory heavy plumes was obtained. These experiments included a large range of conditions for source gas specific gravity, gas flow rate, gas time duration, and wind speed. The deviations in plume similarity as a result of different modeling approximations were examined. A useful empirical description of all the continuous plume tests was developed, and its applicability to field conditions discussed.
Technical Approach	An LNG vapor plume at boiloff conditions is heavier than air. Although the plume will eventually become positively buoyant due to heat absorbed from the surroundings, much of the dispersion will occur while the plume density is greater than the that of air. The dispersion during the heavier-than-air phase may be approximated in a wind tunnel by means of isothermal-model plumes produced by high-molecular-weight gases. In laboratory tests, heavy gases were introduced into the wind tunnel via an area source of constant diameter mounted flush on the wind-tunnel floor. The floor was level and smooth for all tests. Concentration sensors down-wind of this source were used to measure the structure of the different model plumes tested.

Project  
Implications

This work has produced a useful empirical description of wind tunnel modeling of continuous-spill LNG plume dispersion. However, several factors concerning the scaling of turbulent motion are not yet sufficiently understood to clarify the range of applicability of wind tunnel plume data to field conditions. Additional tests will be carried out in a future project. Colorado State University is currently investigating the surface heat transfer effects on the dispersion of LNG plumes. Results from this task will also be used to identify future research that is necessary to clarify the applicability of wind tunnel tests to large scale releases of LNG.

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Table 1. Summary of Visual Plume Data

Run No.	Symbol <sup>+</sup>	Source Gas Specific Gravity $\rho_s/\rho_a$	Source Gas Flow Rate Q (ccs)	Wind Speed $u@$ (cm/sec)	Upwind Plume Extent $L_u$ (cm)	Lateral Plume Extent				
						x=0 cm $L_{H_0}$ (cm)	x=61 cm $L_{H_x}$ (cm)	x=122 cm $L_{H_x}$ (cm)	x=244 cm $L_{H_x}$ (cm)	x=366 cm $L_{H_x}$ (cm)
1		1.38	43	19.7	10	32.5	80	90	100	
2		1.38	65	19.1	10	37.5	90	105	155	165
3		1.38	107	20.5	14	54.5	110	150	157.5	190
4		1.38	207	19.7	23.5	90	160	190	245	270
5		1.38	72	29.5	8	25	65	80	95	105
6		1.38	145	29.6	11.5	34.5	75	100	135	155
7		1.38	207	27.9	15	50	100	120	160	185
8		1.38	346	27.3	19	75	120	160	205	220
9		1.38	85	39.8	8	20	50	65	100	125
10		1.38	170	38.9	10	30	70	85	115	140
11		1.38	330	38.3	14	45	100	125	150	190
12		1.38	83	53.3	7.5	15.5	35	50	75	
13		1.38	162	52.2	7.5	20	50	60	85	110
14		1.38	327	52	10	25	65	75	110	130
15		2.59	102	18.2	23.5	95	165	215	275	300
16		2.59	153	18.5	35	117.5	195	240	315	340
17		2.59	205	18.8	50	142	250	280	335	340
18		2.59	256	19.2	50	160	255	290	350	370
19		2.59	86	32.3	19	60	105	140	175	
20		2.59	173	31.3	27	98	145	185	225	250
21		2.59	85	38.7	14	42	90	110	130	160
22		2.59	123	38.5	17	57	105	135	155	190
23		2.59	205	38.7	24	75	125	155	190	220
24		2.59	80	50.4	10	30	65	75	95	
25		2.59	160	49.9	12	41	90	105	140	165
26		2.59	240	50.0	18	55	100	125	150	175
27		4.18	51	20.3	25	80	145	180		
28		4.18	77	20.4	30	102.5	165	210		
29		4.18	102	20.4	42	130	193	225	310	370
30		4.18	128	20.8	52	150	215	270	335	370
31		4.18	43	32.4	12	42	100	125		
32		4.18	87	33.5	22	75	125	155	205	
33		4.18	163	33.4	35	115	175	210	275	320
34		4.18	251	31.3	50	152	215	260	330	370
35		4.18	61	38.4	14	45	95	105	155	
36		4.18	102	37.4	22	65	115	145	190	230
37		4.18	195	39.3	32	104	158	185	245	285
38		4.18	40	51.0	8	20	55	70		
39		4.18	80	50.5	12	36	80	90	130	
40		4.18	120	50.8	12	52.5	95	105	150	
41		4.18	192	49.9	17.5	72.5	110	140	170	190

<sup>+</sup> Symbols used in all figures unless noted differently on the figure

\*Source Diameter for all tests = 15 cm

\*Coordinate system referenced to source center

\*Lateral distances are all full plume width values

Table 2. Continuous Release Concentrations Tests Taken with Hot Wire Aspirated Probes

Run No.	Data Set Page No.	Source Gas Specific Gravity $\rho_s/\rho_a$	Source Gas Flow Rate Q (ccs)	Wind Speed at 2.1 cm u (cm/sec)	$\bar{X}$ t				
					x=30.5 (cm)	x=61 (cm)	x=122 (cm)	x=244 (cm)	x=366 (cm)
42 <sup>+</sup>	3	1.38	170	20	0.189	0.103	0.050	0.018	0.012
43	6	1.38	110	20.2	0.146	0.069	0.035	0.015	-
44 <sup>+</sup>	7	1.38	242	26.5	0.264	0.139	0.075	0.037	0.021
45 <sup>+</sup>	9	1.38	170	30	0.192	0.102	0.050	0.021	0.015
46 <sup>+</sup>	12	1.38	100	33.4	0.134	0.069	0.033	0.012	0.007
47 <sup>+</sup>	14	1.38	100	33.4	0.134	0.072	0.030	0.015	-
48 <sup>+</sup>	15	1.38	170	40	0.225	0.114	0.051	0.021	0.015
49 <sup>+</sup>	17	1.38	105	42.5	0.148	0.074	0.030	0.009	0.003
50 <sup>+</sup>	18	1.38	222	44	0.222	0.121	0.061	0.023	0.010
51 <sup>+</sup>	20	1.38	170	50	0.201	0.100	0.041	0.017	0.007
52	22	1.38	340	51	0.273	0.152	0.074	0.031	-
53	23	1.79	98	42.4	0.19	0.10	0.041	0.019	0.005
54	25	1.79	144	48.1	0.22	0.115	0.055	0.026	0.012
55	27	1.79	347	64.5	0.28	0.16	0.085	0.033	0.018
56	29	2.59	170	25	0.237	0.128	0.06	0.024	0.016
57	32	2.59	87	30.1	0.13	0.068	0.032	0.014	-
58	34	2.59	170	37	0.21	0.116	0.065	0.028	0.014
59	37	2.59	224	41.2	0.238	0.125	0.071	0.036	0.022
60	40	2.59	79	49.8	0.125	0.08	0.043	0.016	0.008
61	42	2.59	170	51.5	0.206	0.112	0.061	0.029	0.017
62 <sup>+</sup>	44	2.59	170	63.5	0.18	0.109	0.056	0.025	0.01
63 <sup>+</sup>	46	2.59	204	68.1	0.20	0.11	0.055	0.021	0.013
64	49	2.59	280	75.5	0.225	0.135	0.075	0.029	0.011
65	51	2.59	170	77.5	0.201	0.114	0.049	0.012	0.005
66 <sup>+</sup>	53	4.18	60.5	33.5	0.095	0.048	0.025	0.01	0.006
67 <sup>+</sup>	55	4.18	192	35	0.192	0.115	0.062	0.032	0.018
68 <sup>+</sup>	59	4.18	139	44.2	0.14	0.09	0.047	0.024	0.013
69 <sup>+</sup>	62	4.18	192	50	0.191	0.116	0.067	0.03	0.021
70	66	4.18	55	55.4	0.085	0.05	0.024	0.01	0.005
71 <sup>+</sup>	68	4.18	310	58.4	0.255	0.14	0.081	0.05	0.028
72 <sup>+</sup>	71	4.18	192	70	0.191	0.104	0.06	0.025	0.017
73 <sup>+</sup>	75	4.18	126	73.1	0.13	0.075	0.04	0.013	0.005
74 <sup>+</sup>	78	4.18	192	86.5	0.166	0.091	0.049	0.017	0.006
75 <sup>+</sup>	80	4.18	280	96.5	0.14	0.08	0.04	0.015	0.005
76	81	4.18	192	100	0.146	0.084	0.04	0.014	0.006

\*Source Diameter for all tests = 15 cm

\*Coordinate system referenced to source center

\*All tests were isothermal,  $T_s/T_a = 1$

\*All tests are continuous release plumes

\*For all tests concentrations were measured on half the groundlevel plane

<sup>+</sup>For these tests vertical concentration measurements were made at center line points downwind

$\Delta$ Field Conc. values in Data Tables have been converted to an LNG source gas condition.



RUN NUMBER

=42

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 170.0  
 VELOCITY (CM/SEC) AT 2.1 CM = 20.0

X (CM)	POSITION		Z (CM)	MODE			FIELD		
	Y (CM)			PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
0.0	0.0	0.0	21	10	1	4	0	0	1
0.0	5.0	0.0	19	7	1	3	0	0	1
0.0	10.0	0.0	18	6	1	2	0	0	1
0.0	15.0	0.0	16	4	1	1	0	0	1
0.0	20.0	0.0	14	3	1	1	0	0	1
0.0	25.0	0.0	12	2	1	1	0	0	1
0.0	30.0	0.0	10	1	1	1	0	0	1
0.0	35.0	0.0	8	1	1	1	0	0	1
0.0	40.0	0.0	6	1	1	1	0	0	1
0.0	45.0	0.0	4	1	1	1	0	0	1
0.0	50.0	0.0	2	1	1	1	0	0	1
0.0	55.0	0.0	1	1	1	1	0	0	1
0.0	60.0	0.0	1	1	1	1	0	0	1
0.0	65.0	0.0	1	1	1	1	0	0	1
0.0	70.0	0.0	1	1	1	1	0	0	1
0.0	75.0	0.0	1	1	1	1	0	0	1
0.0	80.0	0.0	1	1	1	1	0	0	1
0.0	85.0	0.0	1	1	1	1	0	0	1
0.0	90.0	0.0	1	1	1	1	0	0	1
0.0	95.0	0.0	1	1	1	1	0	0	1
0.0	100.0	0.0	1	1	1	1	0	0	1
0.0	105.0	0.0	1	1	1	1	0	0	1
0.0	110.0	0.0	1	1	1	1	0	0	1
0.0	115.0	0.0	1	1	1	1	0	0	1
0.0	120.0	0.0	1	1	1	1	0	0	1
0.0	125.0	0.0	1	1	1	1	0	0	1
0.0	130.0	0.0	1	1	1	1	0	0	1
0.0	135.0	0.0	1	1	1	1	0	0	1
0.0	140.0	0.0	1	1	1	1	0	0	1
0.0	145.0	0.0	1	1	1	1	0	0	1
0.0	150.0	0.0	1	1	1	1	0	0	1
0.0	155.0	0.0	1	1	1	1	0	0	1
0.0	160.0	0.0	1	1	1	1	0	0	1
0.0	165.0	0.0	1	1	1	1	0	0	1
0.0	170.0	0.0	1	1	1	1	0	0	1
0.0	175.0	0.0	1	1	1	1	0	0	1
0.0	180.0	0.0	1	1	1	1	0	0	1
0.0	185.0	0.0	1	1	1	1	0	0	1
0.0	190.0	0.0	1	1	1	1	0	0	1
0.0	195.0	0.0	1	1	1	1	0	0	1
0.0	200.0	0.0	1	1	1	1	0	0	1

RUN NUMBER = 42  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 170.0  
 VELOCITY (CM/S) AT 2.1 CM = 20.0

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
243.00	0.00	0.00	2.1	1.6	.2	5.6	4.3	.5
243.00	5.00	0.00	1.9	1.5	.2	5.1	3.9	.5
243.00	10.00	0.00	2.4	1.7	.2	5.5	4.2	.5
243.00	15.00	0.00	2.4	1.7	.3	5.5	4.2	.5
243.00	20.00	0.00	2.2	1.6	.3	5.2	4.0	.5
243.00	25.00	0.00	2.1	1.3	.3	5.1	3.4	.5
243.00	30.00	0.00	2.5	1.1	.4	5.4	3.0	.5
243.00	35.00	0.00	2.5	1.3	.4	5.4	3.0	1.0
243.00	40.00	0.00	2.0	1.5	.2	5.0	3.0	.5
243.00	45.00	0.00	2.2	1.7	.2	5.2	3.5	.5
243.00	50.00	0.00	1.0	1.5	.1	4.0	3.0	.5
243.00	55.00	0.00	2.5	1.9	.3	5.5	3.1	.5
243.00	60.00	0.00	1.6	1.1	.2	4.6	2.4	.5
243.00	70.00	0.00	1.0	1.1	.0	4.0	2.7	.0
243.00	75.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	80.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	85.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	90.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	95.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	100.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	105.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	110.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	115.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	120.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	125.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	130.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	135.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	140.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	145.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	150.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	155.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	160.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	165.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	170.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	175.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	180.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	185.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	190.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	195.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	200.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	205.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	210.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	215.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	220.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	225.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	230.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	235.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	240.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	245.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	250.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	255.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	260.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	265.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	270.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	275.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	280.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	285.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	290.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	295.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	300.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	305.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	310.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	315.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	320.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	325.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	330.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	335.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	340.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	345.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	350.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	355.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	360.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	365.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	370.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	375.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	380.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	385.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	390.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	395.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	400.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	405.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	410.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	415.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	420.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	425.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	430.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	435.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	440.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	445.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	450.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	455.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	460.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	465.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	470.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	475.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	480.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	485.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	490.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	495.00	0.00	1.0	1.0	.0	4.0	2.6	.0
243.00	500.00	0.00	1.0	1.0	.0	4.0	2.6	.0

RUN NUMBER = 42

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 170.0  
 VELOCITY (CM/S) AT 2.1 CM = 20.0

X (CM)	POSITION			MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC	
0.0	0.0	0.0	11.5	9.0	0.0	22.0	22.0	1.0	
0.0	0.0	1.0	10.1	8.1	1.0	19.4	19.0	1.0	
0.0	0.0	2.0	6.3	3.7	1.1	15.4	9.0	2.0	
0.0	0.0	4.0	4.0	1.0	1.0	10.0	2.0	1.0	
0.0	0.0	5.0	1.0	0.0	1.0	4.0	0.0	0.0	
0.0	0.0	7.0	0.0	0.0	0.0	3.0	0.0	0.0	
12.1	0.0	0.0	11.0	4.0	0.0	13.7	12.1	0.0	
12.1	0.0	1.0	10.5	4.0	0.5	13.7	11.4	1.0	
12.1	0.0	2.0	8.0	3.0	0.0	11.4	7.0	1.0	
12.1	0.0	4.0	2.0	1.0	0.0	7.1	2.4	1.0	
12.1	0.0	5.0	1.0	0.0	1.0	4.0	0.0	0.0	
12.1	0.0	7.0	1.0	0.0	0.0	3.0	0.0	0.0	
12.1	0.0	7.0	0.0	0.0	0.0	1.7	0.0	0.0	

RUN NUMBER

=43

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 110.0  
 VELOCITY (CM/S) AT 2.1 CM = 20.2

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
000000	0.0	0.0	14.9	12.5	.7	22.2	22.9	1.2
000000	5.0	0.0	13.3	11.1	.6	23.1	22.5	1.1
000000	10.0	0.0	14.3	11.4	.7	26.6	22.9	1.4
000000	15.0	0.0	11.0	9.9	.7	18.7	14.6	1.1
000000	20.0	0.0	7.7	5.9	.9	17.4	11.4	1.1
000000	25.0	0.0	4.4	4.1	.8	12.1	8.4	1.1
000000	30.0	0.0	4.4	4.1	.8	10.7	7.3	1.1
000000	35.0	0.0	2.0	2.0	0	9.9	6.4	1.1
000000	40.0	0.0	0.0	0.0	0	1.9	1.6	1.1
000000	45.0	0.0	6.6	5.0	.5	16.5	11.7	1.1
000000	50.0	0.0	6.6	5.0	.5	16.5	11.7	1.1
000000	55.0	0.0	10.0	7.4	.9	19.9	14.9	1.1
000000	60.0	0.0	15.0	11.3	1.3	25.0	20.0	1.1
000000	65.0	0.0	20.0	14.9	1.7	30.0	27.7	1.1
000000	70.0	0.0	25.0	19.7	2.1	35.0	34.4	1.1
000000	75.0	0.0	30.0	24.7	2.5	40.0	40.0	1.1
000000	80.0	0.0	35.0	29.7	2.9	45.0	45.0	1.1
000000	85.0	0.0	40.0	34.7	3.3	50.0	50.0	1.1
000000	90.0	0.0	45.0	39.7	3.7	55.0	55.0	1.1
000000	95.0	0.0	50.0	44.7	4.1	60.0	60.0	1.1
000000	100.0	0.0	55.0	49.7	4.5	65.0	65.0	1.1
000000	105.0	0.0	60.0	54.7	4.9	70.0	70.0	1.1
000000	110.0	0.0	65.0	59.7	5.3	75.0	75.0	1.1
000000	115.0	0.0	70.0	64.7	5.7	80.0	80.0	1.1
000000	120.0	0.0	75.0	69.7	6.1	85.0	85.0	1.1
000000	125.0	0.0	80.0	74.7	6.5	90.0	90.0	1.1
000000	130.0	0.0	85.0	79.7	6.9	95.0	95.0	1.1
000000	135.0	0.0	90.0	84.7	7.3	100.0	100.0	1.1
000000	140.0	0.0	95.0	89.7	7.7	105.0	105.0	1.1
000000	145.0	0.0	100.0	94.7	8.1	110.0	110.0	1.1
000000	150.0	0.0	105.0	99.7	8.5	115.0	115.0	1.1
000000	155.0	0.0	110.0	104.7	8.9	120.0	120.0	1.1
000000	160.0	0.0	115.0	109.7	9.3	125.0	125.0	1.1
000000	165.0	0.0	120.0	114.7	9.7	130.0	130.0	1.1
000000	170.0	0.0	125.0	119.7	10.1	135.0	135.0	1.1
000000	175.0	0.0	130.0	124.7	10.5	140.0	140.0	1.1
000000	180.0	0.0	135.0	129.7	10.9	145.0	145.0	1.1
000000	185.0	0.0	140.0	134.7	11.3	150.0	150.0	1.1
000000	190.0	0.0	145.0	139.7	11.7	155.0	155.0	1.1
000000	195.0	0.0	150.0	144.7	12.1	160.0	160.0	1.1
000000	200.0	0.0	155.0	149.7	12.5	165.0	165.0	1.1
000000	205.0	0.0	160.0	154.7	12.9	170.0	170.0	1.1
000000	210.0	0.0	165.0	159.7	13.3	175.0	175.0	1.1
000000	215.0	0.0	170.0	164.7	13.7	180.0	180.0	1.1
000000	220.0	0.0	175.0	169.7	14.1	185.0	185.0	1.1
000000	225.0	0.0	180.0	174.7	14.5	190.0	190.0	1.1
000000	230.0	0.0	185.0	179.7	14.9	195.0	195.0	1.1
000000	235.0	0.0	190.0	184.7	15.3	200.0	200.0	1.1
000000	240.0	0.0	195.0	189.7	15.7	205.0	205.0	1.1
000000	245.0	0.0	200.0	194.7	16.1	210.0	210.0	1.1
000000	250.0	0.0	205.0	199.7	16.5	215.0	215.0	1.1
000000	255.0	0.0	210.0	204.7	16.9	220.0	220.0	1.1
000000	260.0	0.0	215.0	209.7	17.3	225.0	225.0	1.1
000000	265.0	0.0	220.0	214.7	17.7	230.0	230.0	1.1
000000	270.0	0.0	225.0	219.7	18.1	235.0	235.0	1.1
000000	275.0	0.0	230.0	224.7	18.5	240.0	240.0	1.1
000000	280.0	0.0	235.0	229.7	18.9	245.0	245.0	1.1
000000	285.0	0.0	240.0	234.7	19.3	250.0	250.0	1.1
000000	290.0	0.0	245.0	239.7	19.7	255.0	255.0	1.1
000000	295.0	0.0	250.0	244.7	20.1	260.0	260.0	1.1
000000	300.0	0.0	255.0	249.7	20.5	265.0	265.0	1.1
000000	305.0	0.0	260.0	254.7	20.9	270.0	270.0	1.1
000000	310.0	0.0	265.0	259.7	21.3	275.0	275.0	1.1
000000	315.0	0.0	270.0	264.7	21.7	280.0	280.0	1.1
000000	320.0	0.0	275.0	269.7	22.1	285.0	285.0	1.1
000000	325.0	0.0	280.0	274.7	22.5	290.0	290.0	1.1
000000	330.0	0.0	285.0	279.7	22.9	295.0	295.0	1.1
000000	335.0	0.0	290.0	284.7	23.3	300.0	300.0	1.1
000000	340.0	0.0	295.0	289.7	23.7	305.0	305.0	1.1
000000	345.0	0.0	300.0	294.7	24.1	310.0	310.0	1.1
000000	350.0	0.0	305.0	299.7	24.5	315.0	315.0	1.1
000000	355.0	0.0	310.0	304.7	24.9	320.0	320.0	1.1
000000	360.0	0.0	315.0	309.7	25.3	325.0	325.0	1.1
000000	365.0	0.0	320.0	314.7	25.7	330.0	330.0	1.1
000000	370.0	0.0	325.0	319.7	26.1	335.0	335.0	1.1
000000	375.0	0.0	330.0	324.7	26.5	340.0	340.0	1.1
000000	380.0	0.0	335.0	329.7	26.9	345.0	345.0	1.1
000000	385.0	0.0	340.0	334.7	27.3	350.0	350.0	1.1
000000	390.0	0.0	345.0	339.7	27.7	355.0	355.0	1.1
000000	395.0	0.0	350.0	344.7	28.1	360.0	360.0	1.1
000000	400.0	0.0	355.0	349.7	28.5	365.0	365.0	1.1
000000	405.0	0.0	360.0	354.7	28.9	370.0	370.0	1.1
000000	410.0	0.0	365.0	359.7	29.3	375.0	375.0	1.1
000000	415.0	0.0	370.0	364.7	29.7	380.0	380.0	1.1
000000	420.0	0.0	375.0	369.7	30.1	385.0	385.0	1.1
000000	425.0	0.0	380.0	374.7	30.5	390.0	390.0	1.1
000000	430.0	0.0	385.0	379.7	30.9	395.0	395.0	1.1
000000	435.0	0.0	390.0	384.7	31.3	400.0	400.0	1.1
000000	440.0	0.0	395.0	389.7	31.7	405.0	405.0	1.1
000000	445.0	0.0	400.0	394.7	32.1	410.0	410.0	1.1
000000	450.0	0.0	405.0	399.7	32.5	415.0	415.0	1.1
000000	455.0	0.0	410.0	404.7	32.9	420.0	420.0	1.1
000000	460.0	0.0	415.0	409.7	33.3	425.0	425.0	1.1
000000	465.0	0.0	420.0	414.7	33.7	430.0	430.0	1.1
000000	470.0	0.0	425.0	419.7	34.1	435.0	435.0	1.1
000000	475.0	0.0	430.0	424.7	34.5	440.0	440.0	1.1
000000	480.0	0.0	435.0	429.7	34.9	445.0	445.0	1.1
000000	485.0	0.0	440.0	434.7	35.3	450.0	450.0	1.1
000000	490.0	0.0	445.0	439.7	35.7	455.0	455.0	1.1
000000	495.0	0.0	450.0	444.7	36.1	460.0	460.0	1.1
000000	500.0	0.0	455.0	449.7	36.5	465.0	465.0	1.1
000000	505.0	0.0	460.0	454.7	36.9	470.0	470.0	1.1
000000	510.0	0.0	465.0	459.7	37.3	475.0	475.0	1.1
000000	515.0	0.0	470.0	464.7	37.7	480.0	480.0	1.1
000000	520.0	0.0	475.0	469.7	38.1	485.0	485.0	1.1
000000	525.0	0.0	480.0	474.7	38.5	490.0	490.0	1.1
000000	530.0	0.0	485.0	479.7	38.9	495.0	495.0	1.1
000000	535.0	0.0	490.0	484.7	39.3	500.0	500.0	1.1
000000	540.0	0.0	495.0	489.7	39.7	505.0	505.0	1.1
000000	545.0	0.0	500.0	494.7	40.1	510.0	510.0	1.1
000000	550.0	0.0	505.0	499.7	40.5	515.0	515.0	1.1
000000	555.0	0.0	510.0	504.7	40.9	520.0	520.0	1.1
000000	560.0	0.0	515.0	509.7	41.3	525.0	525.0	1.1
000000	565.0	0.0	520.0	514.7	41.7	530.0	530.0	1.1
000000	570.0	0.0	525.0	519.7	42.1	535.0	535.0	1.1
000000	575.0	0.0	530.0	524.7	42.5	540.0	540.0	1.1
000000	580.0	0.0	535.0	529.7	42.9	545.0	545.0	1.1
000000	585.0	0.0	540.0	534.7	43.3	550.0	550.0	1.1
000000	590.0	0.0	545.0	539.7	43.7	555.0	555.0	1.1
000000	595.0	0.0	550.0	544.7	44.1	560.0	560.0	1.1
000000	600.0	0.0	555.0	549.7	44.5	565.0	565.0	1.1
000000	605.0	0.0	560.0	554.7	44.9	570.0	570.0	1.1
000000	610.0	0.0	565.0	559.7	45.3	575.0	575.0	1.1
000000	615.0	0.0	570.0	564.7	45.7	580.0	580.0	1.1
000000	620.0	0.0	575.0	569.7	46.1	585.0	585.0	1.1
000000	625.0	0.0	580.0	574.7	46.5	590.0	590.0	1.1
000000	630.0	0.0	585.0	579.7	46.9	595.0	595.0	1.1
000000	635.0	0.0	590.0	584.7	47.3	600.0	600.0	1.1
000000	640.0	0.0	595.0	589.7	47.7	605.0	605.0	1.1
000000	645.0	0.0	600.0	594.7	48.1	610.0	610.0	1.1
000000	650.0	0.0	605.0	599.7	48.5	615.0	615.0	1.1
000000	655.0	0.0	610.0	604.7	48.9	620.0	620.0	1.1
000000	660.0	0.0	615.0	609.7	49.3	625.0	625.0	1.1
000000	665.0	0.0	620.0	614.7	49.7	630.0	630.0	1.1
000000	6							





RUN NUMBER

= 45

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 170.0  
 VELOCITY (CM/SEC) AT 2.1 CM = 30.0

X (CM)	POSITION			MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC	
30.0	0.0	0.0	20.0	17.0	1.0	41.0	37.0	1.0	
30.0	5.0	0.0	21.0	19.0	1.0	42.0	39.0	1.0	
30.0	10.0	0.0	20.0	17.0	1.0	41.0	37.0	1.0	
30.0	15.0	0.0	19.0	14.0	1.0	37.0	35.0	1.0	
30.0	20.0	0.0	18.0	11.0	1.0	35.0	35.0	1.0	
30.0	25.0	0.0	16.0	9.0	1.0	33.0	33.0	1.0	
30.0	30.0	0.0	15.0	7.0	1.0	32.0	32.0	1.0	
30.0	35.0	0.0	14.0	6.0	1.0	31.0	31.0	1.0	
30.0	40.0	0.0	13.0	5.0	1.0	30.0	30.0	1.0	
61.0	0.0	0.0	11.0	10.0	1.0	30.0	30.0	1.0	
61.0	5.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
61.0	10.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
61.0	15.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
61.0	20.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
61.0	25.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
61.0	30.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
61.0	35.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
61.0	40.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
121.0	0.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
121.0	5.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
121.0	10.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
121.0	15.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
121.0	20.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
121.0	25.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
121.0	30.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
121.0	35.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
121.0	40.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
121.0	45.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
121.0	50.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
244.0	0.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
244.0	5.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
244.0	10.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
244.0	15.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
244.0	20.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
244.0	25.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
244.0	30.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
244.0	35.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
244.0	40.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	
244.0	45.0	0.0	11.0	9.0	1.0	30.0	30.0	1.0	

RUN NUMBER = 45  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 170.0  
 VELOCITY (CM/S) AT 2.1 CM = 30.0

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
243.0	50.0	0.0	1.0	1.0	.1	2.0	1.0	1.0
260.0	0.0	0.0	1.0	1.0	.1	4.0	1.0	1.0
260.0	5.0	0.0	1.0	1.0	.1	5.0	1.0	1.0
260.0	10.0	0.0	1.0	1.0	0.0	4.0	1.0	0.0
260.0	15.0	0.0	1.0	1.0	0.0	4.0	1.0	0.0
260.0	20.0	0.0	1.0	1.0	0.0	4.0	1.0	0.0
260.0	25.0	0.0	1.0	1.0	.1	4.0	1.0	0.0
260.0	30.0	0.0	1.0	1.0	.2	4.0	1.0	0.0
260.0	35.0	0.0	1.0	1.0	.2	4.0	1.0	0.0
260.0	40.0	0.0	1.0	1.0	.2	4.0	1.0	0.0
260.0	45.0	0.0	1.0	1.0	.1	4.0	1.0	0.0
260.0	50.0	0.0	1.0	1.0	.1	2.0	1.0	0.0



RUN NUMBER = 45

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 170.0  
 VELOCITY (CM/SEC) AT 2.1 CM = 30.0

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
61.9	0.0	0.0	11.3	9.5	7.7	25.7	22.2	1.4
61.9	0.0	1.0	10.3	7.7	1.4	23.5	17.0	3.2
61.9	0.0	2.0	7.7	2.2	1.4	19.0	6.3	3.2
61.9	0.0	3.0	5.5	1.1	1.4	12.8	1.7	1.5
61.9	0.0	4.0	3.3	0.0	1.1	8.5	0.4	5.3
61.9	0.0	5.0	1.1	0.0	0.0	3.4	0.0	0.0
61.9	0.0	7.0	1.1	0.0	0.0	3.9	0.0	0.0
121.9	0.0	0.0	5.5	4.6	5.5	14.1	11.6	1.2
121.9	0.0	1.0	5.5	2.3	6.6	13.7	10.7	1.4
121.9	0.0	2.0	4.4	2.3	6.6	11.8	6.1	2.0
121.9	0.0	3.0	4.4	1.1	5.5	10.4	2.6	1.5
121.9	0.0	4.0	2.3	0.0	2.2	6.1	0.9	5.3
121.9	0.0	5.0	1.1	0.0	1.1	3.9	0.4	0.0
121.9	0.0	7.0	1.1	0.0	0.0	3.4	0.0	0.0
121.9	0.0	7.0	1.1	0.0	0.0	4.6	0.0	0.0



RUN NUMBER = 46  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 100.0  
 VELOCITY (CM/RS) AT 2.1 CM = 33.4

S	POSITION			MODEL			FIELD		
	X (CM)	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
61	0	0	0	0	0	0	0	0	0
61	0	0	1	0	0	1	0	0	0
61	0	0	2	0	0	1	0	0	0
61	0	0	3	0	0	1	0	0	0
61	0	0	4	0	0	1	0	0	0
61	0	0	5	0	0	1	0	0	0
61	0	0	6	0	0	0	0	0	0
61	0	0	7	0	0	0	0	0	0
121	0	0	0	0	0	0	0	0	0
121	0	0	1	0	0	0	0	0	0
121	0	0	2	0	0	0	0	0	0
121	0	0	3	0	0	0	0	0	0
121	0	0	4	0	0	0	0	0	0
121	0	0	5	0	0	0	0	0	0
121	0	0	6	0	0	0	0	0	0
121	0	0	7	0	0	0	0	0	0

RUN NUMBER

=47

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 100.0  
 VELOCITY (CM/S) AT 2.1 CM = 33.4

X (CM)	POSITION		PEAK CONC	MODEL MEAN CONC	RMS CONC	FIELD		
	Y (CM)	Z (CM)				PEAK CONC	MEAN CONC	RMS CONC
30.5	0.0	0.0	15.8	13.3	1.1	33.7	29.4	22.0
30.5	5.0	0.0	15.0	12.3	1.3	32.3	27.5	22.4
30.5	10.0	0.0	13.5	10.5	1.4	29.7	24.1	22.7
30.5	15.0	0.0	11.8	7.8	1.7	26.2	18.7	22.0
30.5	20.0	0.0	11.5	4.8	2.3	22.2	11.1	22.4
30.5	25.0	0.0	6.3	7.7	1.0	15.4	1.7	22.6
30.5	30.0	0.0	1.0	7.7	0.0	22.6	7.7	22.0
61.9	0.0	0.0	7.8	5.7	7.7	17.7	17.7	11.1
61.9	5.0	0.0	7.7	5.7	1.0	17.7	14.3	11.1
61.9	10.0	0.0	7.7	5.7	1.0	17.7	14.3	11.1
61.9	15.0	0.0	7.7	5.7	1.0	17.7	14.3	11.1
61.9	20.0	0.0	7.7	5.7	1.0	17.7	14.3	11.1
61.9	25.0	0.0	7.7	5.7	1.0	17.7	14.3	11.1
61.9	30.0	0.0	7.7	5.7	1.0	17.7	14.3	11.1
121.1	0.0	0.0	7.7	5.7	4.4	17.7	14.3	11.1
121.1	5.0	0.0	7.7	5.7	4.4	17.7	14.3	11.1
121.1	10.0	0.0	7.7	5.7	4.4	17.7	14.3	11.1
121.1	15.0	0.0	7.7	5.7	4.4	17.7	14.3	11.1
121.1	20.0	0.0	7.7	5.7	4.4	17.7	14.3	11.1
121.1	25.0	0.0	7.7	5.7	4.4	17.7	14.3	11.1
121.1	30.0	0.0	7.7	5.7	4.4	17.7	14.3	11.1
244.4	0.0	0.0	7.7	5.7	1.1	17.7	14.3	11.1
244.4	5.0	0.0	7.7	5.7	1.1	17.7	14.3	11.1
244.4	10.0	0.0	7.7	5.7	1.1	17.7	14.3	11.1
244.4	15.0	0.0	7.7	5.7	1.1	17.7	14.3	11.1
244.4	20.0	0.0	7.7	5.7	1.1	17.7	14.3	11.1
244.4	25.0	0.0	7.7	5.7	1.1	17.7	14.3	11.1
244.4	30.0	0.0	7.7	5.7	1.1	17.7	14.3	11.1



RUN NUMBER = 48  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 170.0  
 VELOCITY (CM/S) AT 2.1 CM = 40.0

X (CM)	POSITION		Z (CM)	MODEL			FIELD		
	Y (CM)			PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
61.9	0.0		0.0	11.6	9.7	1.00	22.6	16.5	1.44
61.9	0.0		1.0	11.2	9.3	1.00	22.3	16.2	1.44
61.9	0.0		2.0	10.8	8.9	1.00	22.0	15.9	1.44
61.9	0.0		3.0	10.4	8.5	1.00	21.7	15.6	1.44
61.9	0.0		4.0	10.0	8.1	1.00	21.4	15.3	1.44
61.9	0.0		5.0	9.6	7.7	1.00	21.1	15.0	1.44
61.9	0.0		6.0	9.2	7.3	1.00	20.8	14.7	1.44
61.9	0.0		7.0	8.8	6.9	1.00	20.5	14.4	1.44
121.9	0.0		0.0	11.6	9.7	1.00	22.6	16.5	1.44
121.9	0.0		1.0	11.2	9.3	1.00	22.3	16.2	1.44
121.9	0.0		2.0	10.8	8.9	1.00	22.0	15.9	1.44
121.9	0.0		3.0	10.4	8.5	1.00	21.7	15.6	1.44
121.9	0.0		4.0	10.0	8.1	1.00	21.4	15.3	1.44
121.9	0.0		5.0	9.6	7.7	1.00	21.1	15.0	1.44
121.9	0.0		6.0	9.2	7.3	1.00	20.8	14.7	1.44
121.9	0.0		7.0	8.8	6.9	1.00	20.5	14.4	1.44

RUN NUMBER

=49

SOURCE DIA. (CM)

=15.00

SOURCE SPECIFIC GRAVITY

=1.38

SOURCE TIME DURATION (SEC)

=STEADY

SOURCE FLOW RATE (CCS)

=105.0

VELOCITY (CM/S) AT 2.1 CM

=42.5

X (CM)	POSITION		PEAK CONC	MODEL MEAN CONC	RMS CONC	FIELD		
	Y (CM)	Z (CM)				PEAK CONC	MEAN CONC	RMS CONC
30.0	0.0	0.0	19.2	14.7	1.0	3.2	2.1	1.4
30.0	5.0	0.0	16.6	13.0	1.0	3.2	2.1	1.4
30.0	10.0	0.0	15.7	12.7	1.0	3.2	2.1	1.4
30.0	15.0	0.0	11.9	4.3	1.0	3.2	2.1	1.4
30.0	20.0	0.0	6.9	0.5	1.0	3.2	2.1	1.4
30.0	25.0	0.0	1.1	0.0	1.0	3.2	2.1	1.4
61.0	0.0	0.0	10.3	7.7	1.1	3.2	2.1	1.4
61.0	5.0	0.0	8.1	5.5	1.1	3.2	2.1	1.4
61.0	10.0	0.0	7.2	4.4	1.1	3.2	2.1	1.4
61.0	15.0	0.0	7.7	1.1	1.1	3.2	2.1	1.4
61.0	20.0	0.0	5.5	0.5	1.1	3.2	2.1	1.4
61.0	25.0	0.0	1.1	0.0	1.1	3.2	2.1	1.4
61.0	30.0	0.0	0.0	0.0	0.0	3.2	2.1	1.4
122.0	0.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	5.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	10.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	15.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	20.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	25.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	30.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	35.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	40.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	45.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	50.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	55.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	60.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	65.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	70.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	75.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	80.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	85.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	90.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	95.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	100.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	105.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	110.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	115.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	120.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	125.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	130.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	135.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	140.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	145.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	150.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	155.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	160.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	165.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	170.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	175.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	180.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	185.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	190.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	195.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4
122.0	200.0	0.0	4.4	0.0	0.0	3.2	2.1	1.4

RUN NUMBER

= 50

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 229.0  
 VELOCITY (CM/S) AT 2.1 CM = 44.0

POSITION			MODEL			FIELD		
X	Y	Z	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
(CM)	(CM)	(CM)						
0.0	0.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	10.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	20.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	30.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	40.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	50.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	60.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	70.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	80.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	90.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	100.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
10.0	0.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
20.0	0.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
30.0	0.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
40.0	0.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
50.0	0.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
60.0	0.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
70.0	0.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
80.0	0.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
90.0	0.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
100.0	0.0	0.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	10.0	10.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	20.0	20.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	30.0	30.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	40.0	40.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	50.0	50.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	60.0	60.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	70.0	70.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	80.0	80.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	90.0	90.0	22.0	11.0	22.0	43.0	21.5	43.0
0.0	100.0	100.0	22.0	11.0	22.0	43.0	21.5	43.0



RUN NUMBER = 50

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 222.0  
 VELOCITY (CM/S) AT 2.1 CM = 44.0

	POSITION			MODEL			FIELD		
	X (CM)	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
	01.0	0.0	0.0	13.9	11.2	1.1	30.4	25.5	2.1
	01.0	0.0	1.0	13.1	7.2	2.4	29.0	17.4	5.1
	01.0	0.0	2.0	10.4	2.3	1.7	22.9	6.1	4.3
	01.0	0.0	3.0	9.0	.8	.8	21.2	2.2	2.1
	01.0	0.0	4.0	8.3	.3	.4	15.4	.9	1.1
	01.0	0.0	5.0	4.5	.3	.2	11.4	.9	.5
	01.0	0.0	7.0	2.3	0.0	0.0	5.3	0.0	0.0
1	01.0	0.0	0.0	22.2	5.0	1.1	17.4	12.5	3.0
12	01.0	0.0	1.0	7.0	4.3	1.3	17.0	10.9	3.0
121	01.0	0.0	2.0	6.5	2.3	1.0	15.9	6.1	3.0
1211	01.0	0.0	3.0	6.0	1.0	.8	14.8	2.6	2.1
12111	01.0	0.0	4.0	5.5	.5	.5	13.7	1.3	1.1
121111	01.0	0.0	5.0	4.2	.5	.3	10.7	1.3	.5
1211111	01.0	0.0	7.0	4.1	0.0	.2	10.4	0.0	.5
12111111	01.0	0.0	7.0	4.0	0.0	.2	10.2	0.0	.5

RUN NUMBER

=51

SOURCE DIA. (CM) =15.00  
 SOURCE SPECIFIC GRAVITY =1.28  
 SOURCE TIME DURATION (SEC) =STEADY  
 SOURCE FLOW RATE (CCS) =170.0  
 VELOCITY (CM/S) AT 2.1 CM =50.0

X (CM)	POSITION			MODEL			FIELD		
	Y (CM)	Z (CM)	PERK CONC	MEAN CONC	RMS CONC	PERK CONC	MEAN CONC	RMS CONC	
30.0	0.0	0.0	2222222	217.0	22.0	50.0	40.4	33.7	40.0
30.0	5.0	0.0	2222222	117.0	22.0	44.0	33.7	28.0	33.0
30.0	10.0	0.0	2222222	113.0	22.0	44.0	33.7	28.0	33.0
30.0	15.0	0.0	2222222	113.0	22.0	44.0	33.7	28.0	33.0
30.0	20.0	0.0	2222222	113.0	22.0	44.0	33.7	28.0	33.0
31.0	0.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
31.0	5.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
31.0	10.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
31.0	15.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
31.0	20.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
31.0	25.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
31.0	30.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
121.0	0.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
121.0	5.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
121.0	10.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
121.0	15.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
121.0	20.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
121.0	25.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
121.0	30.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
243.0	0.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
243.0	5.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
243.0	10.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
243.0	15.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
243.0	20.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
243.0	25.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
243.0	30.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
243.0	35.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
243.0	40.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
243.0	45.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
305.0	0.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
305.0	5.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
305.0	10.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0
305.0	15.0	0.0	1122222	110.0	22.0	44.0	33.7	28.0	33.0

RUN NUMBER

=51

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CC/S) = 170.0  
 VELOCITY (CM/S) AT 2.1 CM = 50.0

X (CM)	POSITION		PEAK CONC	MODEL MEAN CONC	RMS CONC	PEAK CONC	FIELD	
	Y (CM)	Z (CM)					MEAN CONC	RMS CONC
61.0	0.0	0.0	13.1	10.2	1.3	29.0	23.5	2.5
61.0	0.0	1.0	13.3	6.4	2.3	29.4	15.7	5.0
61.0	0.0	2.0	10.1	2.3	1.1	23.4	6.1	4.4
61.0	0.0	3.0	9.0	1.0	0.8	21.2	1.3	1.1
61.0	0.0	4.0	5.1	0.5	0.4	12.0	1.3	1.1
61.0	0.0	5.0	3.3	0.2	0.2	9.0	0.4	0.5
61.0	0.0	6.0	3.3	0.2	0.2	9.0	0.4	0.5
61.0	0.0	7.0	3.3	0.4	1.1	15.0	10.4	2.2
121.0	0.0	1.0	8.1	3.3	1.1	15.0	6.1	2.2
121.0	0.0	2.0	5.4	1.3	1.0	13.4	5.1	2.1
121.0	0.0	3.0	4.9	1.0	0.7	10.0	3.0	1.1
121.0	0.0	4.0	3.4	0.5	0.4	8.0	0.9	0.5
121.0	0.0	5.0	3.4	0.5	0.4	8.0	0.9	0.5
121.0	0.0	6.0	3.3	0.5	0.4	8.0	0.9	0.5
121.0	0.0	7.0	3.1	0.5	0.4	8.0	0.9	0.5



RUN NUMBER

=53

SOURCE DIA. (CM)
SOURCE SPECIFIC GRAVITY
SOURCE TIME DURATION (SEC)
SOURCE FLOW RATE (CCS)
VELOCITY (CM/S) AT 2.1 CM

=15.00
=1.79
=STEADY
=98.0
=42.4

Table with columns: POSITION (X, Y, Z), MODEL (PEAK CONC, MEAN CONC, RMS CONC), FIELD (PEAK CONC, MEAN CONC, RMS CONC). The table contains a grid of numerical data points representing concentration measurements at various positions.

RUN NUMBER

=53

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.79  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 98.0  
 VELOCITY (CM/S) AT 2.1 CM = 42.4

POSITION			MODEL			FIELD		
X	Y	Z	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
(CM)	(CM)	(CM)						
24.0000	30.00	0.00	1.4	.1	.5	7.7		1.3
24.0000	35.00	0.00	1.2	0.00	.5		0.4	1.4
24.0000	40.00	0.00	2.4	1.6	.3	6.2	4.2	1.0
24.0000	45.00	0.00	2.4	1.4	.4	6.2	4.4	1.0
24.0000	50.00	0.00	1.9	1.9	.4	5.0	2.2	1.0
24.0000	55.00	0.00	1.5	.0	.4	4.2	1.1	1.1
24.0000	60.00	0.00	1.3	.0	.3	3.4	0.0	.0
24.0000	65.00	0.00	1.1	.0	.2	2.7	0.0	.0
24.0000	70.00	0.00	1.0	.0	.2	2.2	0.0	.0
24.0000	75.00	0.00	1.0	.0	.2	1.9	0.0	.0
24.0000	80.00	0.00	1.1	.0	.2	1.7	0.0	.0
24.0000	85.00	0.00	1.4	.1	.2	1.7	0.0	.0
24.0000	90.00	0.00	1.4	.0	.2	1.4	0.0	.0
24.0000	95.00	0.00	1.9	.0	.2	1.4	0.0	.0
24.0000	100.00	0.00	1.0	.0	.2	1.4	0.0	.0

RUN NUMBER

=54

SOURCE DIA. (CM) = 15.00  
SOURCE SPECIFIC GRAVITY = 1.79  
SOURCE TIME DURATION (SEC) = STEADY  
SOURCE FLOW RATE (CCS) = 144.0  
VELOCITY (CM/S) AT 2.1 CM = 48.1

X (CM)	POSITION		PEAK CONC	MODEL			FIELD		
	Y (CM)	Z (CM)		PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
0	0	0	2	17	2	4	4	4	4
0	5	0	2	2	1	5	5	5	5
0	10	0	2	1	1	4	4	4	4
0	15	0	2	1	1	4	4	4	4
0	20	0	2	1	1	4	4	4	4
0	25	0	2	1	1	4	4	4	4
0	30	0	2	1	1	4	4	4	4
0	35	0	2	1	1	4	4	4	4
0	40	0	2	1	1	4	4	4	4
0	45	0	2	1	1	4	4	4	4
0	50	0	2	1	1	4	4	4	4
0	55	0	2	1	1	4	4	4	4
0	60	0	2	1	1	4	4	4	4
0	65	0	2	1	1	4	4	4	4
0	70	0	2	1	1	4	4	4	4
0	75	0	2	1	1	4	4	4	4
0	80	0	2	1	1	4	4	4	4
0	85	0	2	1	1	4	4	4	4
0	90	0	2	1	1	4	4	4	4
0	95	0	2	1	1	4	4	4	4
0	100	0	2	1	1	4	4	4	4
0	105	0	2	1	1	4	4	4	4
0	110	0	2	1	1	4	4	4	4
0	115	0	2	1	1	4	4	4	4
0	120	0	2	1	1	4	4	4	4
0	125	0	2	1	1	4	4	4	4
0	130	0	2	1	1	4	4	4	4
0	135	0	2	1	1	4	4	4	4
0	140	0	2	1	1	4	4	4	4
0	145	0	2	1	1	4	4	4	4
0	150	0	2	1	1	4	4	4	4
0	155	0	2	1	1	4	4	4	4
0	160	0	2	1	1	4	4	4	4
0	165	0	2	1	1	4	4	4	4
0	170	0	2	1	1	4	4	4	4
0	175	0	2	1	1	4	4	4	4
0	180	0	2	1	1	4	4	4	4
0	185	0	2	1	1	4	4	4	4
0	190	0	2	1	1	4	4	4	4
0	195	0	2	1	1	4	4	4	4
0	200	0	2	1	1	4	4	4	4
0	205	0	2	1	1	4	4	4	4
0	210	0	2	1	1	4	4	4	4
0	215	0	2	1	1	4	4	4	4
0	220	0	2	1	1	4	4	4	4
0	225	0	2	1	1	4	4	4	4
0	230	0	2	1	1	4	4	4	4
0	235	0	2	1	1	4	4	4	4
0	240	0	2	1	1	4	4	4	4
0	245	0	2	1	1	4	4	4	4
0	250	0	2	1	1	4	4	4	4
0	255	0	2	1	1	4	4	4	4
0	260	0	2	1	1	4	4	4	4
0	265	0	2	1	1	4	4	4	4
0	270	0	2	1	1	4	4	4	4
0	275	0	2	1	1	4	4	4	4
0	280	0	2	1	1	4	4	4	4
0	285	0	2	1	1	4	4	4	4
0	290	0	2	1	1	4	4	4	4
0	295	0	2	1	1	4	4	4	4
0	300	0	2	1	1	4	4	4	4
0	305	0	2	1	1	4	4	4	4
0	310	0	2	1	1	4	4	4	4
0	315	0	2	1	1	4	4	4	4
0	320	0	2	1	1	4	4	4	4
0	325	0	2	1	1	4	4	4	4
0	330	0	2	1	1	4	4	4	4
0	335	0	2	1	1	4	4	4	4
0	340	0	2	1	1	4	4	4	4
0	345	0	2	1	1	4	4	4	4
0	350	0	2	1	1	4	4	4	4
0	355	0	2	1	1	4	4	4	4
0	360	0	2	1	1	4	4	4	4
0	365	0	2	1	1	4	4	4	4
0	370	0	2	1	1	4	4	4	4
0	375	0	2	1	1	4	4	4	4
0	380	0	2	1	1	4	4	4	4
0	385	0	2	1	1	4	4	4	4
0	390	0	2	1	1	4	4	4	4
0	395	0	2	1	1	4	4	4	4
0	400	0	2	1	1	4	4	4	4
0	405	0	2	1	1	4	4	4	4
0	410	0	2	1	1	4	4	4	4
0	415	0	2	1	1	4	4	4	4
0	420	0	2	1	1	4	4	4	4
0	425	0	2	1	1	4	4	4	4
0	430	0	2	1	1	4	4	4	4
0	435	0	2	1	1	4	4	4	4
0	440	0	2	1	1	4	4	4	4
0	445	0	2	1	1	4	4	4	4
0	450	0	2	1	1	4	4	4	4
0	455	0	2	1	1	4	4	4	4
0	460	0	2	1	1	4	4	4	4
0	465	0	2	1	1	4	4	4	4
0	470	0	2	1	1	4	4	4	4
0	475	0	2	1	1	4	4	4	4
0	480	0	2	1	1	4	4	4	4
0	485	0	2	1	1	4	4	4	4
0	490	0	2	1	1	4	4	4	4
0	495	0	2	1	1	4	4	4	4
0	500	0	2	1	1	4	4	4	4
0	505	0	2	1	1	4	4	4	4
0	510	0	2	1	1	4	4	4	4
0	515	0	2	1	1	4	4	4	4
0	520	0	2	1	1	4	4	4	4
0	525	0	2	1	1	4	4	4	4
0	530	0	2	1	1	4	4	4	4
0	535	0	2	1	1	4	4	4	4
0	540	0	2	1	1	4	4	4	4
0	545	0	2	1	1	4	4	4	4
0	550	0	2	1	1	4	4	4	4
0	555	0	2	1	1	4	4	4	4
0	560	0	2	1	1	4	4	4	4
0	565	0	2	1	1	4	4	4	4
0	570	0	2	1	1	4	4	4	4
0	575	0	2	1	1	4	4	4	4
0	580	0	2	1	1	4	4	4	4
0	585	0	2	1	1	4	4	4	4
0	590	0	2	1	1	4	4	4	4
0	595	0	2	1	1	4	4	4	4
0	600	0	2	1	1	4	4	4	4
0	605	0	2	1	1	4	4	4	4
0	610	0	2	1	1	4	4	4	4
0	615	0	2	1	1	4	4	4	4
0	620	0	2	1	1	4	4	4	4
0	625	0	2	1	1	4	4	4	4
0	630	0	2	1	1	4	4	4	4
0	635	0	2	1	1	4	4	4	4
0	640	0	2	1	1	4	4	4	4
0	645	0	2	1	1	4	4	4	4
0	650	0	2	1	1	4	4	4	4
0	655	0	2	1	1	4	4	4	4
0	660	0	2	1	1	4	4	4	4
0	665	0	2	1	1	4	4	4	4
0	670	0	2	1	1	4	4	4	4
0	675	0	2	1	1	4	4	4	4
0	680	0	2	1	1	4	4	4	4
0	685	0	2	1	1	4	4	4	4
0	690	0	2	1	1	4	4	4	4
0	695	0	2	1	1	4	4	4	4
0	700	0	2	1	1	4	4	4	4
0	705	0	2	1	1	4	4	4	4
0	710	0	2	1	1	4	4	4	4
0	715	0	2	1	1	4	4	4	4
0	720	0	2	1	1	4	4	4	4
0	725	0	2	1	1	4	4	4	4
0	730	0	2	1	1	4	4	4	4
0	735	0	2	1	1	4	4	4	4
0	740	0	2	1	1	4	4	4	4
0	745	0	2	1	1	4	4	4	4
0	750	0	2	1	1	4	4	4	4
0	755	0	2	1	1	4	4	4	4
0	760	0	2	1	1	4	4	4	4
0	765	0	2	1	1	4	4	4	4
0	770	0	2	1	1	4	4	4	4
0	775	0	2	1	1	4	4	4	4
0	780	0	2	1	1	4	4	4	4
0	785	0	2	1	1	4	4	4	4
0	790	0	2	1	1	4	4	4	4
0	795	0	2	1	1	4	4	4	4
0	800	0	2	1	1	4	4	4	4
0	805	0	2	1	1	4	4	4	4
0	810	0	2	1	1	4	4	4	4
0	815	0	2	1	1	4	4	4	4
0	820	0	2	1	1	4	4	4	4
0	825	0	2	1	1	4	4	4	4
0	830	0	2	1	1	4	4	4	4
0	835	0	2	1	1	4	4	4	4
0	840	0	2	1	1	4	4	4	4
0	845	0	2	1	1	4	4	4	4
0	850	0	2	1	1	4	4	4	4
0	855	0	2	1	1	4	4	4	4
0	860	0	2	1	1	4	4	4	4
0	865	0	2	1	1	4	4	4	4
0	870	0	2	1	1	4	4	4	4
0	875	0	2	1	1	4	4	4	4
0	880	0	2	1	1	4	4	4	4
0	885	0	2	1	1	4	4	4	4
0	890	0	2	1	1	4	4	4	4
0	895								

RUN NUMBER

=54

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.79  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 144.0  
 VELOCITY (CM/S) AT 2.1 CM = 48.1

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
243.0	45.0	0.0	2.1	1.1	1.1	5.0	2.4	1.6
243.0	50.0	0.0	1.1	1.1	1.1	5.0	1.6	1.1
243.0	55.0	0.0	1.1	1.1	1.1	5.0	1.1	1.1
243.0	60.0	0.0	1.1	1.1	1.1	3.4	1.1	1.1
243.0	65.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	70.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	75.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	80.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	85.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	90.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	95.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	100.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	105.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	110.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	115.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	120.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	125.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	130.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	135.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	140.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	145.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	150.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	155.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	160.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	165.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	170.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	175.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	180.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	185.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	190.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	195.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	200.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	205.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	210.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	215.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	220.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	225.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	230.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	235.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	240.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	245.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	250.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	255.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	260.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	265.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	270.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	275.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	280.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	285.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	290.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	295.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
243.0	300.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1



RUN NUMBER

=55

SOURCE DIA. (CM) =15.00  
 SOURCE SPECIFIC GRAVITY =1.79  
 SOURCE TIME DURATION (SEC) =STEADY  
 SOURCE FLOW RATE (CCS) =347.0  
 VELOCITY (CM/S) AT 2.1 CM =64.5

X (CM)	POSITION		PEAK CONC	MODEL			FIELD		
	Y (CM)	Z (CM)		MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC	
30.0	0.0	0.0	36.8	23.3	4.8	61.1	45.1	65.6	
30.0	0.0	0.0	33.5	28.0	4.0	60.0	48.7	60.0	
30.0	10.0	0.0	35.9	28.1	4.4	60.0	51.4	60.0	
30.0	15.0	0.0	37.4	27.7	5.7	61.0	50.9	61.0	
30.0	20.0	0.0	33.6	20.0	7.7	45.5	40.8	10.0	
30.0	25.0	0.0	29.1	29.9	7.7	47.5	22.3	14.0	
30.0	30.0	0.0	20.7	20.1	4.1	41.4	5.5	10.0	
30.0	35.0	0.0	1.4	1.1	1.1	4.7	0.0	0.0	
30.0	40.0	0.0	1.4	1.1	1.1	4.7	0.0	0.0	
61.0	0.0	0.0	1.9	1.3	2.2	3.9	2.8	4.4	
61.0	0.0	0.0	1.9	1.4	2.2	3.9	2.8	4.4	
61.0	10.0	0.0	2.2	1.5	2.2	4.0	3.0	4.4	
61.0	15.0	0.0	2.2	1.5	2.2	4.0	3.0	4.4	
61.0	20.0	0.0	1.7	1.0	4.4	3.3	2.3	1.1	
61.0	25.0	0.0	1.9	1.7	5.5	3.3	2.3	1.1	
61.0	30.0	0.0	1.7	1.5	4.4	3.3	2.3	1.1	
61.0	35.0	0.0	1.4	1.1	2.2	3.3	2.3	1.1	
61.0	40.0	0.0	1.4	1.1	2.2	3.3	2.3	1.1	
121.0	0.0	0.0	1.0	0.7	1.1	2.2	1.4	1.1	
121.0	0.0	0.0	1.0	0.7	1.1	2.2	1.4	1.1	
121.0	10.0	0.0	1.1	0.8	1.1	2.2	1.4	1.1	
121.0	15.0	0.0	1.1	0.8	1.1	2.2	1.4	1.1	
121.0	20.0	0.0	1.1	0.8	1.1	2.2	1.4	1.1	
121.0	25.0	0.0	1.0	0.7	1.1	2.2	1.4	1.1	
121.0	30.0	0.0	1.1	0.8	1.1	2.2	1.4	1.1	
121.0	35.0	0.0	1.0	0.7	1.1	2.2	1.4	1.1	
121.0	40.0	0.0	1.0	0.7	1.1	2.2	1.4	1.1	
224.0	0.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
224.0	0.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
224.0	10.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
224.0	15.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
224.0	20.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
224.0	25.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
224.0	30.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
224.0	35.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
224.0	40.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
444.0	0.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
444.0	0.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
444.0	10.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
444.0	15.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
444.0	20.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
444.0	25.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
444.0	30.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
444.0	35.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	
444.0	40.0	0.0	1.9	1.1	2.2	3.3	2.3	1.1	



RUN NUMBER

=56

SOURCE DIA. (CM)
SOURCE SPECIFIC GRAVITY
SOURCE TIME DURATION (SEC)
SOURCE FLOW RATE (CCS)
VELOCITY (CM/S) AT 2.1 CM

=15.00
=2.59
=STEADY
=170.0
=25.0

Table with columns: POSITION (X, Y, Z), MODEL (PEAK CONC, MEAN CONC, RMS CONC), and FIELD (PEAK CONC, MEAN CONC, RMS CONC). The table contains numerical data for concentration at various positions and models.



RUN NUMBER

=56

SOURCE DIA. (CM) = 15.00  
SOURCE SPECIFIC GRAVITY = 2.59  
SOURCE TIME DURATION (SEC) = STEADY  
SOURCE FLOW RATE (CCS) = 170.0  
VELOCITY (CM/S) AT 2.1 CM = 25.0

POSITION			MODEL			FIELD		
X	Y	Z	PEAK	MEAN	RMS	PEAK	MEAN	RMS
(CM)	(CM)	(CM)	CONC	CONC	CONC	CONC	CONC	CONC
0	90	0	1	1	0	4	7	0
0	95	0	1	1	0	4	7	0
0	100	0	1	1	0	4	7	0
0	105	0	1	1	0	4	7	0
0	110	0	1	1	0	4	7	0
0	115	0	1	1	0	4	7	0
0	120	0	1	1	0	4	7	0
0	125	0	1	1	0	4	7	0
0	130	0	1	1	0	4	7	0
0	135	0	1	1	0	4	7	0
0	140	0	1	1	0	4	7	0
0	145	0	1	1	0	4	7	0
0	150	0	1	1	0	4	7	0
0	155	0	1	1	0	4	7	0
0	160	0	1	1	0	4	7	0
0	165	0	1	1	0	4	7	0
0	170	0	1	1	0	4	7	0
0	175	0	1	1	0	4	7	0
0	180	0	1	1	0	4	7	0
0	185	0	1	1	0	4	7	0
0	190	0	1	1	0	4	7	0
0	195	0	1	1	0	4	7	0
0	200	0	1	1	0	4	7	0
0	205	0	1	1	0	4	7	0
0	210	0	1	1	0	4	7	0
0	215	0	1	1	0	4	7	0
0	220	0	1	1	0	4	7	0
0	225	0	1	1	0	4	7	0
0	230	0	1	1	0	4	7	0
0	235	0	1	1	0	4	7	0
0	240	0	1	1	0	4	7	0
0	245	0	1	1	0	4	7	0
0	250	0	1	1	0	4	7	0
0	255	0	1	1	0	4	7	0
0	260	0	1	1	0	4	7	0
0	265	0	1	1	0	4	7	0
0	270	0	1	1	0	4	7	0
0	275	0	1	1	0	4	7	0
0	280	0	1	1	0	4	7	0
0	285	0	1	1	0	4	7	0
0	290	0	1	1	0	4	7	0
0	295	0	1	1	0	4	7	0
0	300	0	1	1	0	4	7	0
0	305	0	1	1	0	4	7	0
0	310	0	1	1	0	4	7	0
0	315	0	1	1	0	4	7	0
0	320	0	1	1	0	4	7	0
0	325	0	1	1	0	4	7	0
0	330	0	1	1	0	4	7	0
0	335	0	1	1	0	4	7	0
0	340	0	1	1	0	4	7	0
0	345	0	1	1	0	4	7	0
0	350	0	1	1	0	4	7	0
0	355	0	1	1	0	4	7	0
0	360	0	1	1	0	4	7	0
0	365	0	1	1	0	4	7	0
0	370	0	1	1	0	4	7	0
0	375	0	1	1	0	4	7	0
0	380	0	1	1	0	4	7	0
0	385	0	1	1	0	4	7	0
0	390	0	1	1	0	4	7	0
0	395	0	1	1	0	4	7	0
0	400	0	1	1	0	4	7	0
0	405	0	1	1	0	4	7	0
0	410	0	1	1	0	4	7	0
0	415	0	1	1	0	4	7	0
0	420	0	1	1	0	4	7	0
0	425	0	1	1	0	4	7	0
0	430	0	1	1	0	4	7	0
0	435	0	1	1	0	4	7	0
0	440	0	1	1	0	4	7	0
0	445	0	1	1	0	4	7	0
0	450	0	1	1	0	4	7	0
0	455	0	1	1	0	4	7	0
0	460	0	1	1	0	4	7	0
0	465	0	1	1	0	4	7	0
0	470	0	1	1	0	4	7	0
0	475	0	1	1	0	4	7	0
0	480	0	1	1	0	4	7	0
0	485	0	1	1	0	4	7	0
0	490	0	1	1	0	4	7	0
0	495	0	1	1	0	4	7	0
0	500	0	1	1	0	4	7	0
0	505	0	1	1	0	4	7	0
0	510	0	1	1	0	4	7	0
0	515	0	1	1	0	4	7	0
0	520	0	1	1	0	4	7	0
0	525	0	1	1	0	4	7	0
0	530	0	1	1	0	4	7	0
0	535	0	1	1	0	4	7	0
0	540	0	1	1	0	4	7	0
0	545	0	1	1	0	4	7	0
0	550	0	1	1	0	4	7	0
0	555	0	1	1	0	4	7	0
0	560	0	1	1	0	4	7	0
0	565	0	1	1	0	4	7	0
0	570	0	1	1	0	4	7	0
0	575	0	1	1	0	4	7	0
0	580	0	1	1	0	4	7	0
0	585	0	1	1	0	4	7	0
0	590	0	1	1	0	4	7	0
0	595	0	1	1	0	4	7	0
0	600	0	1	1	0	4	7	0
0	605	0	1	1	0	4	7	0
0	610	0	1	1	0	4	7	0
0	615	0	1	1	0	4	7	0
0	620	0	1	1	0	4	7	0
0	625	0	1	1	0	4	7	0
0	630	0	1	1	0	4	7	0
0	635	0	1	1	0	4	7	0
0	640	0	1	1	0	4	7	0
0	645	0	1	1	0	4	7	0
0	650	0	1	1	0	4	7	0
0	655	0	1	1	0	4	7	0
0	660	0	1	1	0	4	7	0
0	665	0	1	1	0	4	7	0
0	670	0	1	1	0	4	7	0
0	675	0	1	1	0	4	7	0
0	680	0	1	1	0	4	7	0
0	685	0	1	1	0	4	7	0
0	690	0	1	1	0	4	7	0
0	695	0	1	1	0	4	7	0
0	700	0	1	1	0	4	7	0
0	705	0	1	1	0	4	7	0
0	710	0	1	1	0	4	7	0
0	715	0	1	1	0	4	7	0
0	720	0	1	1	0	4	7	0
0	725	0	1	1	0	4	7	0
0	730	0	1	1	0	4	7	0
0	735	0	1	1	0	4	7	0
0	740	0	1	1	0	4	7	0
0	745	0	1	1	0	4	7	0
0	750	0	1	1	0	4	7	0
0	755	0	1	1	0	4	7	0
0	760	0	1	1	0	4	7	0
0	765	0	1	1	0	4	7	0
0	770	0	1	1	0	4	7	0
0	775	0	1	1	0	4	7	0
0	780	0	1	1	0	4	7	0
0	785	0	1	1	0	4	7	0
0	790	0	1	1	0	4	7	0
0	795	0	1	1	0	4	7	0
0	800	0	1	1	0	4	7	0
0	805	0	1	1	0	4	7	0
0	810	0	1	1	0	4	7	0
0	815	0	1	1	0	4	7	0
0	820	0	1	1	0	4	7	0
0	825	0	1	1	0	4	7	0
0	830	0	1	1	0	4	7	0
0	835	0	1	1	0	4	7	0
0	840	0	1	1	0	4	7	0
0	845	0	1	1	0	4	7	0
0	850	0	1	1	0	4	7	0
0	855	0	1	1	0	4	7	0
0	860	0	1	1	0	4	7	0
0	865	0	1	1	0	4	7	0
0	870	0	1	1	0	4	7	0
0	875	0	1	1	0	4	7	0
0	880	0	1	1	0	4	7	0
0	885	0	1	1	0	4	7	0
0	890	0	1	1	0	4	7	0
0	895	0	1	1	0	4	7	0
0	900	0	1	1	0	4	7	0
0	905	0	1	1	0	4	7	0
0	910	0	1	1	0	4	7	0
0	915	0	1	1	0	4	7	0
0	920	0	1	1	0	4	7	0
0	925	0	1	1	0	4	7	0
0	930	0	1	1	0	4	7	0
0	935	0	1	1	0	4	7	0
0	940	0	1	1	0	4	7	0
0	945	0	1	1	0	4	7	0
0	950	0	1	1	0	4	7	0
0	955	0	1	1	0	4	7	0
0	960	0	1	1	0	4	7	0
0	965	0	1	1	0	4	7	0
0	970	0	1	1	0	4	7	0
0	975	0	1	1	0	4	7	0
0	980	0	1	1	0	4	7	0
0	985	0	1	1	0	4	7	0
0	990	0	1	1	0	4	7	0
0	995	0	1	1	0	4	7	0
0	1000	0	1	1	0	4	7	0

RUN NUMBER

=57

SOURCE DIA. (CM) =15.00  
 SOURCE SPECIFIC GRAVITY =2.59  
 SOURCE TIME DURATION (SEC) =STEADY  
 SOURCE FLOW RATE (CCS) =87.0  
 VELOCITY (CM/S) AT 2.1 CM =30.1

POSITION			MODEL			FIELD		
X	Y	Z	PEAK	MEAN	RMS	PEAK	MEAN	RMS
(CM)	(CM)	(CM)	CONC	CONC	CONC	CONC	CONC	CONC
30.0	0.0	0.0	115.7	11.5	7.7	30.0	26.0	11.1
30.0	5.0	0.0	115.7	11.3	7.7	30.0	26.0	11.1
30.0	10.0	0.0	115.7	11.1	7.7	30.0	26.0	11.1
30.0	15.0	0.0	115.7	11.0	7.7	30.0	26.0	11.1
30.0	20.0	0.0	115.7	10.9	7.7	30.0	26.0	11.1
30.0	25.0	0.0	115.7	10.8	7.7	30.0	26.0	11.1
30.0	30.0	0.0	115.7	10.7	7.7	30.0	26.0	11.1
30.0	35.0	0.0	115.7	10.6	7.7	30.0	26.0	11.1
30.0	40.0	0.0	115.7	10.5	7.7	30.0	26.0	11.1
30.0	45.0	0.0	115.7	10.4	7.7	30.0	26.0	11.1
30.0	50.0	0.0	115.7	10.3	7.7	30.0	26.0	11.1
30.0	55.0	0.0	115.7	10.2	7.7	30.0	26.0	11.1
30.0	60.0	0.0	115.7	10.1	7.7	30.0	26.0	11.1
30.0	65.0	0.0	115.7	10.0	7.7	30.0	26.0	11.1
30.0	70.0	0.0	115.7	9.9	7.7	30.0	26.0	11.1
30.0	75.0	0.0	115.7	9.8	7.7	30.0	26.0	11.1
30.0	80.0	0.0	115.7	9.7	7.7	30.0	26.0	11.1
30.0	85.0	0.0	115.7	9.6	7.7	30.0	26.0	11.1
30.0	90.0	0.0	115.7	9.5	7.7	30.0	26.0	11.1
30.0	95.0	0.0	115.7	9.4	7.7	30.0	26.0	11.1
30.0	100.0	0.0	115.7	9.3	7.7	30.0	26.0	11.1
30.0	105.0	0.0	115.7	9.2	7.7	30.0	26.0	11.1
30.0	110.0	0.0	115.7	9.1	7.7	30.0	26.0	11.1
30.0	115.0	0.0	115.7	9.0	7.7	30.0	26.0	11.1
30.0	120.0	0.0	115.7	8.9	7.7	30.0	26.0	11.1
30.0	125.0	0.0	115.7	8.8	7.7	30.0	26.0	11.1
30.0	130.0	0.0	115.7	8.7	7.7	30.0	26.0	11.1
30.0	135.0	0.0	115.7	8.6	7.7	30.0	26.0	11.1
30.0	140.0	0.0	115.7	8.5	7.7	30.0	26.0	11.1
30.0	145.0	0.0	115.7	8.4	7.7	30.0	26.0	11.1
30.0	150.0	0.0	115.7	8.3	7.7	30.0	26.0	11.1
30.0	155.0	0.0	115.7	8.2	7.7	30.0	26.0	11.1
30.0	160.0	0.0	115.7	8.1	7.7	30.0	26.0	11.1
30.0	165.0	0.0	115.7	8.0	7.7	30.0	26.0	11.1
30.0	170.0	0.0	115.7	7.9	7.7	30.0	26.0	11.1
30.0	175.0	0.0	115.7	7.8	7.7	30.0	26.0	11.1
30.0	180.0	0.0	115.7	7.7	7.7	30.0	26.0	11.1
30.0	185.0	0.0	115.7	7.6	7.7	30.0	26.0	11.1
30.0	190.0	0.0	115.7	7.5	7.7	30.0	26.0	11.1
30.0	195.0	0.0	115.7	7.4	7.7	30.0	26.0	11.1
30.0	200.0	0.0	115.7	7.3	7.7	30.0	26.0	11.1
30.0	205.0	0.0	115.7	7.2	7.7	30.0	26.0	11.1
30.0	210.0	0.0	115.7	7.1	7.7	30.0	26.0	11.1
30.0	215.0	0.0	115.7	7.0	7.7	30.0	26.0	11.1
30.0	220.0	0.0	115.7	6.9	7.7	30.0	26.0	11.1
30.0	225.0	0.0	115.7	6.8	7.7	30.0	26.0	11.1
30.0	230.0	0.0	115.7	6.7	7.7	30.0	26.0	11.1
30.0	235.0	0.0	115.7	6.6	7.7	30.0	26.0	11.1
30.0	240.0	0.0	115.7	6.5	7.7	30.0	26.0	11.1
30.0	245.0	0.0	115.7	6.4	7.7	30.0	26.0	11.1
30.0	250.0	0.0	115.7	6.3	7.7	30.0	26.0	11.1
30.0	255.0	0.0	115.7	6.2	7.7	30.0	26.0	11.1
30.0	260.0	0.0	115.7	6.1	7.7	30.0	26.0	11.1
30.0	265.0	0.0	115.7	6.0	7.7	30.0	26.0	11.1
30.0	270.0	0.0	115.7	5.9	7.7	30.0	26.0	11.1
30.0	275.0	0.0	115.7	5.8	7.7	30.0	26.0	11.1
30.0	280.0	0.0	115.7	5.7	7.7	30.0	26.0	11.1
30.0	285.0	0.0	115.7	5.6	7.7	30.0	26.0	11.1
30.0	290.0	0.0	115.7	5.5	7.7	30.0	26.0	11.1
30.0	295.0	0.0	115.7	5.4	7.7	30.0	26.0	11.1
30.0	300.0	0.0	115.7	5.3	7.7	30.0	26.0	11.1
30.0	305.0	0.0	115.7	5.2	7.7	30.0	26.0	11.1
30.0	310.0	0.0	115.7	5.1	7.7	30.0	26.0	11.1
30.0	315.0	0.0	115.7	5.0	7.7	30.0	26.0	11.1
30.0	320.0	0.0	115.7	4.9	7.7	30.0	26.0	11.1
30.0	325.0	0.0	115.7	4.8	7.7	30.0	26.0	11.1
30.0	330.0	0.0	115.7	4.7	7.7	30.0	26.0	11.1
30.0	335.0	0.0	115.7	4.6	7.7	30.0	26.0	11.1
30.0	340.0	0.0	115.7	4.5	7.7	30.0	26.0	11.1
30.0	345.0	0.0	115.7	4.4	7.7	30.0	26.0	11.1
30.0	350.0	0.0	115.7	4.3	7.7	30.0	26.0	11.1
30.0	355.0	0.0	115.7	4.2	7.7	30.0	26.0	11.1
30.0	360.0	0.0	115.7	4.1	7.7	30.0	26.0	11.1
30.0	365.0	0.0	115.7	4.0	7.7	30.0	26.0	11.1
30.0	370.0	0.0	115.7	3.9	7.7	30.0	26.0	11.1
30.0	375.0	0.0	115.7	3.8	7.7	30.0	26.0	11.1
30.0	380.0	0.0	115.7	3.7	7.7	30.0	26.0	11.1
30.0	385.0	0.0	115.7	3.6	7.7	30.0	26.0	11.1
30.0	390.0	0.0	115.7	3.5	7.7	30.0	26.0	11.1
30.0	395.0	0.0	115.7	3.4	7.7	30.0	26.0	11.1
30.0	400.0	0.0	115.7	3.3	7.7	30.0	26.0	11.1
30.0	405.0	0.0	115.7	3.2	7.7	30.0	26.0	11.1
30.0	410.0	0.0	115.7	3.1	7.7	30.0	26.0	11.1
30.0	415.0	0.0	115.7	3.0	7.7	30.0	26.0	11.1
30.0	420.0	0.0	115.7	2.9	7.7	30.0	26.0	11.1
30.0	425.0	0.0	115.7	2.8	7.7	30.0	26.0	11.1
30.0	430.0	0.0	115.7	2.7	7.7	30.0	26.0	11.1
30.0	435.0	0.0	115.7	2.6	7.7	30.0	26.0	11.1
30.0	440.0	0.0	115.7	2.5	7.7	30.0	26.0	11.1
30.0	445.0	0.0	115.7	2.4	7.7	30.0	26.0	11.1
30.0	450.0	0.0	115.7	2.3	7.7	30.0	26.0	11.1
30.0	455.0	0.0	115.7	2.2	7.7	30.0	26.0	11.1
30.0	460.0	0.0	115.7	2.1	7.7	30.0	26.0	11.1
30.0	465.0	0.0	115.7	2.0	7.7	30.0	26.0	11.1
30.0	470.0	0.0	115.7	1.9	7.7	30.0	26.0	11.1
30.0	475.0	0.0	115.7	1.8	7.7	30.0	26.0	11.1
30.0	480.0	0.0	115.7	1.7	7.7	30.0	26.0	11.1
30.0	485.0	0.0	115.7	1.6	7.7	30.0	26.0	11.1
30.0	490.0	0.0	115.7	1.5	7.7	30.0	26.0	11.1
30.0	495.0	0.0	115.7	1.4	7.7	30.0	26.0	11.1
30.0	500.0	0.0	115.7	1.3	7.7	30.0	26.0	11.1
30.0	505.0	0.0	115.7	1.2	7.7	30.0	26.0	11.1
30.0	510.0	0.0	115.7	1.1	7.7	30.0	26.0	11.1
30.0	515.0	0.0	115.7	1.0	7.7	30.0	26.0	11.1
30.0	520.0	0.0	115.7	0.9	7.7	30.0	26.0	11.1
30.0	525.0	0.0	115.7	0.8	7.7	30.0	26.0	11.1
30.0	530.0	0.0	115.7	0.7	7.7	30.0	26.0	11.1
30.0	535.0	0.0	115.7	0.6	7.7	30.0	26.0	11.1
30.0	540.0	0.0	115.7	0.5	7.7	30.0	26.0	11.1
30.0	545.0	0.0	115.7	0.4	7.7	30.0	26.0	11.1
30.0	550.0	0.0	115.7	0.3	7.7	30.0	26.0	11.1
30.0	555.0	0.0	115.7	0.2	7.7	30.0	26.0	11.1
30.0	560.0	0.0	115.7	0.1	7.7	30.0	26.0	11.1
30.0	565.0	0.0	115.7	0.0	7.7	30.0	26.0	11.1
30.0	570.0	0.0	115.7	0.0	7.7	30.0	26.0	11.1
30.0	575.0	0.0	115.7	0.0	7.7	30.0	26.0	11.1
30.0	580.0	0.0	115.7	0.0	7.7	30.0	26.0	11.1
30.0	585.0	0.0	115.7	0.0	7.7	30.0	26.0	11.1
30.0	590.0	0.0	115.7	0.0	7.7	30.0	26.0	11.1
30.0	595.0	0.0	115.7	0.0	7.7	30.0	26.0	11.1
30.0	600.0	0.0	115.7	0.0	7.7	30.0	26.0	11.1

RUN NUMBER =57  
 SOURCE DIA. (CM) =15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) =STEADY  
 SOURCE FLOW RATE (CCS) = 87.0  
 VELOCITY (CM/S) AT 2.1 CM = 30.1

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
121.9	75.0	0.0	.8	0.0	.3	2.1	0.0	.8
121.9	80.0	0.0	.8	0.0	.2	2.1	0.0	.5
243.8	0.0	0.0	1.6	1.4	0.0	4.2	3.7	0.0
243.8	5.0	0.0	1.4	1.2	0.0	3.7	3.2	0.0
243.8	10.0	0.0	1.5	1.3	0.0	4.0	3.4	0.0
243.8	15.0	0.0	1.1	.8	.1	2.9	2.1	.3
243.8	20.0	0.0	1.3	1.0	.1	3.4	2.7	.3
243.8	25.0	0.0	1.1	.9	0.0	2.9	2.4	0.0
243.8	30.0	0.0	.9	.7	0.0	2.4	1.9	0.0
243.8	35.0	0.0	.9	.7	0.0	2.4	1.9	0.0







RUN NUMBER

=58

SOURCE DIA. (CM)

=15.00

SOURCE SPECIFIC GRAVITY

=2.59

SOURCE TIME DURATION (SEC)

=STEADY

SOURCE FLOW RATE (CCS)

=170.0

VELOCITY (CM/S) AT 2.1 CM

=37.0

X (CM)	POSITION		PEAK CONC	MODEL		RMS CONC	FIELD		RMS CONC
	Y (CM)	Z (CM)		PEAK CONC	MEAN CONC		PEAK CONC	MEAN CONC	
243.0	135.0	0.0	.4	.1	0.0	1.1	.3	0.0	
243.0	140.0	0.0	.2	0.0	0.0	.5	0.0	0.0	
243.0	0.0	0.0	1.7	1.4	.1	4.4	.7	0.0	
243.0	5.0	0.0	1.6	1.3	.1	4.4	.7	0.0	
243.0	10.0	0.0	1.6	1.4	0.0	4.4	.7	0.0	
243.0	15.0	0.0	1.5	1.2	.1	4.4	.7	0.0	
243.0	20.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	25.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	30.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	35.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	40.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	45.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	50.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	55.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	60.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	65.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	70.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	75.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	80.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	85.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	90.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	95.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	100.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	105.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	110.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	115.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	120.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	125.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	130.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	135.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	
243.0	140.0	0.0	1.5	1.2	0.0	4.4	.7	0.0	

RUN NUMBER

= 59

SOURCE DIA. (CM)
SOURCE SPECIFIC GRAVITY
SOURCE TIME DURATION (SEC)
SOURCE FLOW RATE (CCS)
VELOCITY (CM/S) AT 2.1 CM

= 15.00
= 2.59
= 8.28
= 224.0
= 41.2

Table with columns: POSITION (X, Y, Z), MODEL, PEAK CONC, MEAN CONC, RMS CONC, FIELD PEAK CONC, FIELD MEAN CONC, FIELD RMS CONC. The table contains multiple rows of numerical data representing concentration measurements at various positions.





RUN NUMBER

= 60

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 79.0  
 VELOCITY (CM/S) AT 2.1 CM = 49.8

POSITION			MODEL			FIELD		
X (CM)	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
1	0	0	11	11	11	11	11	11
1	1	0	11	11	11	11	11	11
1	2	0	11	11	11	11	11	11
1	3	0	11	11	11	11	11	11
1	4	0	11	11	11	11	11	11
1	5	0	11	11	11	11	11	11
1	6	0	11	11	11	11	11	11
1	7	0	11	11	11	11	11	11
1	8	0	11	11	11	11	11	11
1	9	0	11	11	11	11	11	11
1	10	0	11	11	11	11	11	11
1	11	0	11	11	11	11	11	11
1	12	0	11	11	11	11	11	11
1	13	0	11	11	11	11	11	11
1	14	0	11	11	11	11	11	11
1	15	0	11	11	11	11	11	11
1	16	0	11	11	11	11	11	11
1	17	0	11	11	11	11	11	11
1	18	0	11	11	11	11	11	11
1	19	0	11	11	11	11	11	11
1	20	0	11	11	11	11	11	11
1	21	0	11	11	11	11	11	11
1	22	0	11	11	11	11	11	11
1	23	0	11	11	11	11	11	11
1	24	0	11	11	11	11	11	11
1	25	0	11	11	11	11	11	11
1	26	0	11	11	11	11	11	11
1	27	0	11	11	11	11	11	11
1	28	0	11	11	11	11	11	11
1	29	0	11	11	11	11	11	11
1	30	0	11	11	11	11	11	11
1	31	0	11	11	11	11	11	11
1	32	0	11	11	11	11	11	11
1	33	0	11	11	11	11	11	11
1	34	0	11	11	11	11	11	11
1	35	0	11	11	11	11	11	11
1	36	0	11	11	11	11	11	11
1	37	0	11	11	11	11	11	11
1	38	0	11	11	11	11	11	11
1	39	0	11	11	11	11	11	11
1	40	0	11	11	11	11	11	11
1	41	0	11	11	11	11	11	11
1	42	0	11	11	11	11	11	11
1	43	0	11	11	11	11	11	11
1	44	0	11	11	11	11	11	11
1	45	0	11	11	11	11	11	11
1	46	0	11	11	11	11	11	11
1	47	0	11	11	11	11	11	11
1	48	0	11	11	11	11	11	11
1	49	0	11	11	11	11	11	11
1	50	0	11	11	11	11	11	11

RUN NUMBER = 60  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 79.0  
 VELOCITY (CM/S) AT 2.1 CM = 49.8

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
365.0	0.0	0.0	1.1	.7	.2	2.9	1.9	.5
365.0	5.0	0.0	1.1	.6	.2	2.9	1.6	.5
365.0	10.0	0.0	1.2	.8	.2	3.2	2.1	.5
365.0	15.0	0.0	1.4	.9	.2	3.7	2.4	.5
365.0	20.0	0.0	1.2	.8	.2	3.2	2.1	.5
365.0	25.0	0.0	.2	0.0	.2	.5	0.0	.5

RUN NUMBER

= 61

SOURCE DIA. (CM) = 15.00  
SOURCE SPECIFIC GRAVITY = 2.59  
SOURCE TIME DURATION (SEC) = STEADY  
SOURCE FLOW RATE (CCS) = 170.0  
VELOCITY (CM/S) AT 2.1 CM = 51.5

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RHS CONC	PEAK CONC	MEAN CONC	RHS CONC
0	0	0	2	1	2	4	4	4
0	5	0	2	2	1	4	4	4
0	10	0	2	1	1	4	4	4
0	15	0	2	1	1	4	4	4
0	20	0	2	1	1	4	4	4
0	25	0	2	1	1	4	4	4
0	30	0	2	1	1	4	4	4
0	35	0	2	1	1	4	4	4
0	40	0	2	1	1	4	4	4
0	45	0	2	1	1	4	4	4
0	50	0	2	1	1	4	4	4
0	55	0	2	1	1	4	4	4
0	60	0	2	1	1	4	4	4
0	65	0	2	1	1	4	4	4
0	70	0	2	1	1	4	4	4
0	75	0	2	1	1	4	4	4
0	80	0	2	1	1	4	4	4
0	85	0	2	1	1	4	4	4
0	90	0	2	1	1	4	4	4
0	95	0	2	1	1	4	4	4
0	100	0	2	1	1	4	4	4
0	105	0	2	1	1	4	4	4
0	110	0	2	1	1	4	4	4
0	115	0	2	1	1	4	4	4
0	120	0	2	1	1	4	4	4
0	125	0	2	1	1	4	4	4
0	130	0	2	1	1	4	4	4
0	135	0	2	1	1	4	4	4
0	140	0	2	1	1	4	4	4
0	145	0	2	1	1	4	4	4
0	150	0	2	1	1	4	4	4
0	155	0	2	1	1	4	4	4
0	160	0	2	1	1	4	4	4
0	165	0	2	1	1	4	4	4
0	170	0	2	1	1	4	4	4
0	175	0	2	1	1	4	4	4
0	180	0	2	1	1	4	4	4
0	185	0	2	1	1	4	4	4
0	190	0	2	1	1	4	4	4
0	195	0	2	1	1	4	4	4
0	200	0	2	1	1	4	4	4
0	205	0	2	1	1	4	4	4
0	210	0	2	1	1	4	4	4
0	215	0	2	1	1	4	4	4
0	220	0	2	1	1	4	4	4
0	225	0	2	1	1	4	4	4
0	230	0	2	1	1	4	4	4
0	235	0	2	1	1	4	4	4
0	240	0	2	1	1	4	4	4
0	245	0	2	1	1	4	4	4
0	250	0	2	1	1	4	4	4
0	255	0	2	1	1	4	4	4
0	260	0	2	1	1	4	4	4
0	265	0	2	1	1	4	4	4
0	270	0	2	1	1	4	4	4
0	275	0	2	1	1	4	4	4
0	280	0	2	1	1	4	4	4
0	285	0	2	1	1	4	4	4
0	290	0	2	1	1	4	4	4
0	295	0	2	1	1	4	4	4
0	300	0	2	1	1	4	4	4
0	305	0	2	1	1	4	4	4
0	310	0	2	1	1	4	4	4
0	315	0	2	1	1	4	4	4
0	320	0	2	1	1	4	4	4
0	325	0	2	1	1	4	4	4
0	330	0	2	1	1	4	4	4
0	335	0	2	1	1	4	4	4
0	340	0	2	1	1	4	4	4
0	345	0	2	1	1	4	4	4
0	350	0	2	1	1	4	4	4
0	355	0	2	1	1	4	4	4
0	360	0	2	1	1	4	4	4
0	365	0	2	1	1	4	4	4
0	370	0	2	1	1	4	4	4
0	375	0	2	1	1	4	4	4
0	380	0	2	1	1	4	4	4
0	385	0	2	1	1	4	4	4
0	390	0	2	1	1	4	4	4
0	395	0	2	1	1	4	4	4
0	400	0	2	1	1	4	4	4
0	405	0	2	1	1	4	4	4
0	410	0	2	1	1	4	4	4
0	415	0	2	1	1	4	4	4
0	420	0	2	1	1	4	4	4
0	425	0	2	1	1	4	4	4
0	430	0	2	1	1	4	4	4
0	435	0	2	1	1	4	4	4
0	440	0	2	1	1	4	4	4
0	445	0	2	1	1	4	4	4
0	450	0	2	1	1	4	4	4
0	455	0	2	1	1	4	4	4
0	460	0	2	1	1	4	4	4
0	465	0	2	1	1	4	4	4
0	470	0	2	1	1	4	4	4
0	475	0	2	1	1	4	4	4
0	480	0	2	1	1	4	4	4
0	485	0	2	1	1	4	4	4
0	490	0	2	1	1	4	4	4
0	495	0	2	1	1	4	4	4
0	500	0	2	1	1	4	4	4
0	505	0	2	1	1	4	4	4
0	510	0	2	1	1	4	4	4
0	515	0	2	1	1	4	4	4
0	520	0	2	1	1	4	4	4
0	525	0	2	1	1	4	4	4
0	530	0	2	1	1	4	4	4
0	535	0	2	1	1	4	4	4
0	540	0	2	1	1	4	4	4
0	545	0	2	1	1	4	4	4
0	550	0	2	1	1	4	4	4
0	555	0	2	1	1	4	4	4
0	560	0	2	1	1	4	4	4
0	565	0	2	1	1	4	4	4
0	570	0	2	1	1	4	4	4
0	575	0	2	1	1	4	4	4
0	580	0	2	1	1	4	4	4
0	585	0	2	1	1	4	4	4
0	590	0	2	1	1	4	4	4
0	595	0	2	1	1	4	4	4
0	600	0	2	1	1	4	4	4
0	605	0	2	1	1	4	4	4
0	610	0	2	1	1	4	4	4
0	615	0	2	1	1	4	4	4
0	620	0	2	1	1	4	4	4
0	625	0	2	1	1	4	4	4
0	630	0	2	1	1	4	4	4
0	635	0	2	1	1	4	4	4
0	640	0	2	1	1	4	4	4
0	645	0	2	1	1	4	4	4
0	650	0	2	1	1	4	4	4
0	655	0	2	1	1	4	4	4
0	660	0	2	1	1	4	4	4
0	665	0	2	1	1	4	4	4
0	670	0	2	1	1	4	4	4
0	675	0	2	1	1	4	4	4
0	680	0	2	1	1	4	4	4
0	685	0	2	1	1	4	4	4
0	690	0	2	1	1	4	4	4
0	695	0	2	1	1	4	4	4
0	700	0	2	1	1	4	4	4
0	705	0	2	1	1	4	4	4
0	710	0	2	1	1	4	4	4
0	715	0	2	1	1	4	4	4
0	720	0	2	1	1	4	4	4
0	725	0	2	1	1	4	4	4
0	730	0	2	1	1	4	4	4
0	735	0	2	1	1	4	4	4
0	740	0	2	1	1	4	4	4
0	745	0	2	1	1	4	4	4
0	750	0	2	1	1	4	4	4
0	755	0	2	1	1	4	4	4
0	760	0	2	1	1	4	4	4
0	765	0	2	1	1	4	4	4
0	770	0	2	1	1	4	4	4
0	775	0	2	1	1	4	4	4
0	780	0	2	1	1	4	4	4
0	785	0	2	1	1	4	4	4
0	790	0	2	1	1	4	4	4
0	795	0	2	1	1	4	4	4
0	800	0	2	1	1	4	4	4
0	805	0	2	1	1	4	4	4
0	810	0	2	1	1	4	4	4
0	815	0	2	1	1	4	4	4
0	820	0	2	1	1	4	4	4
0	825	0	2	1	1	4	4	4
0	830	0	2	1	1	4	4	4
0	835	0	2	1	1	4	4	4
0	840	0	2	1	1	4	4	4
0	845	0	2	1	1	4	4	4
0	850	0	2	1	1	4	4	4
0	855	0	2	1	1	4	4	4
0	860	0	2	1	1	4	4	4
0	865	0	2	1	1	4	4	4
0	870	0	2	1	1	4	4	4
0	875	0	2	1	1	4	4	4
0	880	0	2	1	1	4	4	4
0	885	0	2	1	1	4	4	4
0	890	0	2	1	1	4	4	4
0	895	0	2	1	1	4	4	4
0	900	0	2	1	1	4	4	4
0	905	0	2	1	1	4	4	4
0	910	0	2	1	1	4	4	4
0	915	0	2	1	1	4	4	4
0	920	0	2	1	1	4	4	4
0	925	0	2	1	1	4	4	4
0	930	0	2	1	1	4	4	4
0	935	0	2	1	1	4	4	4
0	940	0	2	1	1	4	4	4
0	945	0	2	1	1	4	4	4
0	950	0	2	1	1	4	4	4
0	955	0	2	1	1	4	4	4
0	960	0	2	1	1	4	4	4
0	965	0	2	1	1	4	4	4
0	970	0	2	1	1	4	4	4
0	975	0	2	1	1	4	4	4
0	980	0	2	1	1	4	4	4
0								



RUN NUMBER

= 61

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 170.0  
 VELOCITY (CM/S) AT 2.1 CM = 51.5

X (CM)	POSITION		PEAK CONC	MODEL MEAN CONC	RHS CONC	FIELD		
	Y (CM)	Z (CM)				PEAK CONC	MEAN CONC	RHS CONC
2433	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	185.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	190.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	195.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	205.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	210.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	215.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	220.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	225.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	230.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	235.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	240.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	245.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	250.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	255.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	260.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	265.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	275.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	280.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	285.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	290.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	295.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2433	300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RUN NUMBER

=62

SOURCE DIA. (CM) =15.00  
 SOURCE SPECIFIC GRAVITY =2.59  
 SOURCE TIME DURATION (SEC) =STEADY  
 SOURCE FLOW RATE (CCS) =170.0  
 VELOCITY (CM/S) AT 2.1 CM =63.5

X (CM)	POSITION			PEAK CONC	MODEL	RMS CONC	FIELD		
	Y (CM)	Z (CM)					PEAK CONC	MEAN CONC	RMS CONC
300	0	0	1	13	2	4	2	4	2
300	5	0	2	18	2	4	2	4	2
300	10	0	2	16	1	4	2	4	2
300	15	0	2	15	2	4	2	4	2
300	20	0	1	13	3	4	2	4	2
300	25	0	1	11	1	4	2	4	2
300	30	0	1	11	1	4	2	4	2
300	35	0	1	11	1	4	2	4	2
300	40	0	1	11	1	4	2	4	2
300	45	0	1	11	1	4	2	4	2
300	50	0	1	11	1	4	2	4	2
300	55	0	1	11	1	4	2	4	2
300	60	0	1	11	1	4	2	4	2
300	65	0	1	11	1	4	2	4	2
300	70	0	1	11	1	4	2	4	2
300	75	0	1	11	1	4	2	4	2
300	80	0	1	11	1	4	2	4	2
300	85	0	1	11	1	4	2	4	2
300	90	0	1	11	1	4	2	4	2
300	95	0	1	11	1	4	2	4	2
300	100	0	1	11	1	4	2	4	2
300	105	0	1	11	1	4	2	4	2
300	110	0	1	11	1	4	2	4	2
300	115	0	1	11	1	4	2	4	2
300	120	0	1	11	1	4	2	4	2
300	125	0	1	11	1	4	2	4	2
300	130	0	1	11	1	4	2	4	2
300	135	0	1	11	1	4	2	4	2
300	140	0	1	11	1	4	2	4	2
300	145	0	1	11	1	4	2	4	2
300	150	0	1	11	1	4	2	4	2
300	155	0	1	11	1	4	2	4	2
300	160	0	1	11	1	4	2	4	2
300	165	0	1	11	1	4	2	4	2
300	170	0	1	11	1	4	2	4	2
300	175	0	1	11	1	4	2	4	2
300	180	0	1	11	1	4	2	4	2
300	185	0	1	11	1	4	2	4	2
300	190	0	1	11	1	4	2	4	2
300	195	0	1	11	1	4	2	4	2
300	200	0	1	11	1	4	2	4	2
300	205	0	1	11	1	4	2	4	2
300	210	0	1	11	1	4	2	4	2
300	215	0	1	11	1	4	2	4	2
300	220	0	1	11	1	4	2	4	2
300	225	0	1	11	1	4	2	4	2
300	230	0	1	11	1	4	2	4	2
300	235	0	1	11	1	4	2	4	2
300	240	0	1	11	1	4	2	4	2
300	245	0	1	11	1	4	2	4	2
300	250	0	1	11	1	4	2	4	2
300	255	0	1	11	1	4	2	4	2
300	260	0	1	11	1	4	2	4	2
300	265	0	1	11	1	4	2	4	2
300	270	0	1	11	1	4	2	4	2
300	275	0	1	11	1	4	2	4	2
300	280	0	1	11	1	4	2	4	2
300	285	0	1	11	1	4	2	4	2
300	290	0	1	11	1	4	2	4	2
300	295	0	1	11	1	4	2	4	2
300	300	0	1	11	1	4	2	4	2

RUN NUMBER

=62

SOURCE DIA. (CM) = 15.00  
SOURCE SPECIFIC GRAVITY = 2.59  
SOURCE TIME DURATION (SEC) = STEADY  
SOURCE FLOW RATE (CCS) = 170.0  
VELOCITY (CM/S) AT 2.1 CM = 63.5

POSITION			MODEL			FIELD		
X (CM)	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
24	40	0	3	1	1	0	4	1
44	45	0	2	1	1	0	2	1
24	50	0	2	1	1	0	2	1
44	55	0	1	1	1	0	1	1
24	60	0	1	1	1	0	1	1
44	65	0	1	1	1	0	1	1
24	70	0	1	1	1	0	1	1
44	75	0	1	1	1	0	1	1
24	80	0	1	1	1	0	1	1
44	85	0	1	1	1	0	1	1
24	90	0	1	1	1	0	1	1
44	95	0	1	1	1	0	1	1
24	100	0	1	1	1	0	1	1
44	105	0	1	1	1	0	1	1
24	110	0	1	1	1	0	1	1
44	115	0	1	1	1	0	1	1
24	120	0	1	1	1	0	1	1
44	125	0	1	1	1	0	1	1
24	130	0	1	1	1	0	1	1
44	135	0	1	1	1	0	1	1
24	140	0	1	1	1	0	1	1
44	145	0	1	1	1	0	1	1
24	150	0	1	1	1	0	1	1
44	155	0	1	1	1	0	1	1
24	160	0	1	1	1	0	1	1
44	165	0	1	1	1	0	1	1
24	170	0	1	1	1	0	1	1
44	175	0	1	1	1	0	1	1
24	180	0	1	1	1	0	1	1
44	185	0	1	1	1	0	1	1
24	190	0	1	1	1	0	1	1
44	195	0	1	1	1	0	1	1
24	200	0	1	1	1	0	1	1
44	205	0	1	1	1	0	1	1
24	210	0	1	1	1	0	1	1
44	215	0	1	1	1	0	1	1
24	220	0	1	1	1	0	1	1
44	225	0	1	1	1	0	1	1
24	230	0	1	1	1	0	1	1
44	235	0	1	1	1	0	1	1
24	240	0	1	1	1	0	1	1
44	245	0	1	1	1	0	1	1
24	250	0	1	1	1	0	1	1
44	255	0	1	1	1	0	1	1
24	260	0	1	1	1	0	1	1
44	265	0	1	1	1	0	1	1
24	270	0	1	1	1	0	1	1
44	275	0	1	1	1	0	1	1
24	280	0	1	1	1	0	1	1
44	285	0	1	1	1	0	1	1
24	290	0	1	1	1	0	1	1
44	295	0	1	1	1	0	1	1
24	300	0	1	1	1	0	1	1
44	305	0	1	1	1	0	1	1
24	310	0	1	1	1	0	1	1
44	315	0	1	1	1	0	1	1
24	320	0	1	1	1	0	1	1
44	325	0	1	1	1	0	1	1
24	330	0	1	1	1	0	1	1
44	335	0	1	1	1	0	1	1
24	340	0	1	1	1	0	1	1
44	345	0	1	1	1	0	1	1
24	350	0	1	1	1	0	1	1
44	355	0	1	1	1	0	1	1
24	360	0	1	1	1	0	1	1
44	365	0	1	1	1	0	1	1
24	370	0	1	1	1	0	1	1
44	375	0	1	1	1	0	1	1
24	380	0	1	1	1	0	1	1
44	385	0	1	1	1	0	1	1
24	390	0	1	1	1	0	1	1
44	395	0	1	1	1	0	1	1
24	400	0	1	1	1	0	1	1
44	405	0	1	1	1	0	1	1
24	410	0	1	1	1	0	1	1
44	415	0	1	1	1	0	1	1
24	420	0	1	1	1	0	1	1
44	425	0	1	1	1	0	1	1
24	430	0	1	1	1	0	1	1
44	435	0	1	1	1	0	1	1
24	440	0	1	1	1	0	1	1
44	445	0	1	1	1	0	1	1
24	450	0	1	1	1	0	1	1
44	455	0	1	1	1	0	1	1
24	460	0	1	1	1	0	1	1
44	465	0	1	1	1	0	1	1
24	470	0	1	1	1	0	1	1
44	475	0	1	1	1	0	1	1
24	480	0	1	1	1	0	1	1
44	485	0	1	1	1	0	1	1
24	490	0	1	1	1	0	1	1
44	495	0	1	1	1	0	1	1
24	500	0	1	1	1	0	1	1
44	505	0	1	1	1	0	1	1



RUN NUMBER

=63

SOURCE DIA. (CM)

=15.00

SOURCE SPECIFIC GRAVITY

=2.59

SOURCE TIME DURATION (SEC)

=STEADY

SOURCE FLOW RATE (CCS)

=204.0

VELOCITY (CM/S) AT 2.1 CM

=60.1

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
24.30	60.00	0.00	1.50	0.00	.30	4.00	0.00	.00
24.30	65.00	0.00	1.40	0.00	.20	3.20	0.00	.00
24.30	70.00	0.00	1.30	0.00	.10	2.40	0.00	.00
26.50	0.00	0.00	2.30	1.30	.40	5.00	3.30	1.00
26.50	5.00	0.00	2.10	1.10	.30	4.50	3.00	.80
26.50	10.00	0.00	2.10	1.10	.40	4.50	3.00	.80
26.50	15.00	0.00	2.10	1.10	.40	4.50	3.00	.80
26.50	20.00	0.00	2.10	1.10	.40	4.50	3.00	.80
26.50	25.00	0.00	2.10	1.10	.30	4.50	3.00	.80
26.50	30.00	0.00	2.10	1.10	.30	4.50	3.00	.80
26.50	35.00	0.00	2.10	1.10	.30	4.50	3.00	.80
26.50	40.00	0.00	1.10	.90	.40	4.50	3.00	.80
26.50	45.00	0.00	1.10	.70	.40	4.50	3.00	.80
26.50	50.00	0.00	1.10	.80	.40	4.50	3.00	.80
26.50	55.00	0.00	1.10	.70	.40	4.50	3.00	.80
26.50	60.00	0.00	1.10	.40	.20	4.50	3.00	.80
26.50	65.00	0.00	1.10	.40	.20	4.50	3.00	.80
26.50	70.00	0.00	1.10	.40	.20	4.50	3.00	.80

RUN NUMBER

=63

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 204.0  
 VELOCITY (CM/S) AT 2.1 CM = 68.1

POSITION			MODEL			FIELD		
X	Y	Z	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
(CM)	(CM)	(CM)						
0.0	0.0	0.0	14.0	11.7	1.1	30.0	26.4	2.1
0.0	0.0	1.0	10.7	2.0	0.0	19.4	6.1	1.0
0.0	0.0	2.0	0.0	0.0	0.0	10.0	1.1	0.0
0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	17.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	28.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	31.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	36.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	38.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	39.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	41.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	42.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	44.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	46.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	47.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	48.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	49.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0

RUN NUMBER

= 64

SOURCE DIA. (CM)
SOURCE SPECIFIC GRAVITY
SOURCE TIME DURATION (SEC)
SOURCE FLOW RATE (CCS)
VELOCITY (CM/S) AT 2.1 CM

= 15.00
= 2.59
= STEADY
= 280.0
= 75.5

Table with columns: POSITION (X, Y, Z in CM), MODEL (PEAK CONC, MEAN CONC, RMS CONC), and FIELD (PEAK CONC, MEAN CONC, RMS CONC). The table contains a grid of numerical data points.

RUN NUMBER

=64

SOURCE DIA. (CM)
SOURCE SPECIFIC GRAVITY
SOURCE TIME DURATION (SEC)
SOURCE FLOW RATE (CCS)
VELOCITY (CM/S) AT 2.1 CM

=15.00
=2.59
=STEADY
=280.0
=75.5

Table with 9 columns: X (CM), POSITION Y (CM), Z (CM), PEAK CONC, MEAN CONC, RMS CONC (MODEL), PEAK CONC, MEAN CONC, RMS CONC (FIELD). The table contains multiple rows of numerical data representing concentration measurements at various positions.



RUN NUMBER

=65

SOURCE DIA. (CM) =15.00  
 SOURCE SPECIFIC GRAVITY =2.59  
 SOURCE TIME DURATION (SEC) =STEADY  
 SOURCE FLOW RATE (CCS) =170.0  
 VELOCITY (CM/S) AT 2.1 CM =77.5

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
300.000000	0.000000	0.000000	119.000000	112.000000	2.000000	40.000000	27.000000	5.000000
300.000000	5.000000	0.000000	227.000000	220.000000	5.000000	50.000000	40.000000	11.000000
300.000000	10.000000	0.000000	223.000000	175.000000	5.000000	44.000000	32.000000	6.000000
300.000000	15.000000	0.000000	223.000000	100.000000	5.000000	33.000000	23.000000	1.000000
300.000000	20.000000	0.000000	177.000000	30.000000	1.000000	6.000000	0.000000	0.000000
300.000000	25.000000	0.000000	14.000000	0.000000	0.000000	0.000000	0.000000	0.000000
300.000000	30.000000	0.000000	14.000000	0.000000	0.000000	0.000000	0.000000	0.000000
611.000000	0.000000	0.000000	112.000000	110.000000	1.000000	30.000000	19.000000	5.000000
611.000000	5.000000	0.000000	115.000000	111.000000	1.000000	30.000000	25.000000	5.000000
611.000000	10.000000	0.000000	114.000000	99.000000	1.000000	30.000000	21.000000	5.000000
611.000000	15.000000	0.000000	114.000000	77.000000	1.000000	30.000000	18.000000	5.000000
611.000000	20.000000	0.000000	114.000000	58.000000	1.000000	30.000000	14.000000	5.000000
611.000000	25.000000	0.000000	114.000000	35.000000	1.000000	30.000000	11.000000	5.000000
611.000000	30.000000	0.000000	114.000000	10.000000	1.000000	30.000000	0.000000	0.000000
1211.000000	0.000000	0.000000	75.000000	75.000000	1.000000	18.000000	10.000000	5.000000
1211.000000	5.000000	0.000000	75.000000	75.000000	1.000000	17.000000	12.000000	5.000000
1211.000000	10.000000	0.000000	75.000000	75.000000	1.000000	15.000000	10.000000	5.000000
1211.000000	15.000000	0.000000	75.000000	75.000000	1.000000	11.000000	11.000000	5.000000
1211.000000	20.000000	0.000000	75.000000	75.000000	1.000000	7.000000	10.000000	5.000000
1211.000000	25.000000	0.000000	75.000000	75.000000	1.000000	5.000000	10.000000	5.000000
1211.000000	30.000000	0.000000	75.000000	75.000000	1.000000	5.000000	9.000000	5.000000
2244.000000	0.000000	0.000000	22.000000	22.000000	1.000000	5.000000	5.000000	5.000000
2244.000000	5.000000	0.000000	22.000000	22.000000	1.000000	5.000000	5.000000	5.000000
2244.000000	10.000000	0.000000	22.000000	22.000000	1.000000	5.000000	5.000000	5.000000
2244.000000	15.000000	0.000000	22.000000	22.000000	1.000000	5.000000	5.000000	5.000000
2244.000000	20.000000	0.000000	22.000000	22.000000	1.000000	5.000000	5.000000	5.000000
2244.000000	25.000000	0.000000	22.000000	22.000000	1.000000	5.000000	5.000000	5.000000
2244.000000	30.000000	0.000000	22.000000	22.000000	1.000000	5.000000	5.000000	5.000000
4400.000000	0.000000	0.000000	4.000000	4.000000	1.000000	1.000000	1.000000	1.000000
4400.000000	5.000000	0.000000	4.000000	4.000000	1.000000	1.000000	1.000000	1.000000
4400.000000	10.000000	0.000000	4.000000	4.000000	1.000000	1.000000	1.000000	1.000000
4400.000000	15.000000	0.000000	4.000000	4.000000	1.000000	1.000000	1.000000	1.000000
4400.000000	20.000000	0.000000	4.000000	4.000000	1.000000	1.000000	1.000000	1.000000
4400.000000	25.000000	0.000000	4.000000	4.000000	1.000000	1.000000	1.000000	1.000000
4400.000000	30.000000	0.000000	4.000000	4.000000	1.000000	1.000000	1.000000	1.000000
6600.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000
6600.000000	5.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000
6600.000000	10.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000
6600.000000	15.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000
6600.000000	20.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000
6600.000000	25.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000
6600.000000	30.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000
10000.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000
10000.000000	5.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000
10000.000000	10.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000
10000.000000	15.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000
10000.000000	20.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000
10000.000000	25.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000
10000.000000	30.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000

RUN NUMBER = 65  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 170.0  
 VELOCITY (CM/S) AT 2.1 CM = 77.5

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
365.8	20.0	0.0	1.9	.4	.2	2.4	1.1	.5
365.8	25.0	0.0	1.3	.5	.2	3.4	1.3	.5
365.8	30.0	0.0	1.2	.5	.2	3.2	1.3	.5
365.8	35.0	0.0	1.2	.5	.3	3.2	1.3	.8

RUN NUMBER

=66

SOURCE DIA. (CM) =15.00  
SOURCE SPECIFIC GRAVITY = 4.18  
SOURCE TIME DURATION (SEC) = STEADY  
SOURCE FLOW RATE (CCS) = 60.5  
VELOCITY (CM/S) AT 2.1 CM = 33.5

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
30	0	0	10	9		23	21	1
30	5	0	11	10		23	24	1
30	10	0	9	8		22	19	1
30	15	0	9	7		22	18	1
30	20	0	9	6		21	17	1
30	25	0	8	5		21	16	1
30	30	0	8	4		20	15	1
30	35	0	7	3		19	14	1
30	40	0	7	2		18	13	1
30	45	0	6	1		17	12	1
30	50	0	6	0		16	11	1
30	55	0	5	0		15	10	1
30	60	0	4	0		14	9	1
30	65	0	4	0		13	8	1
30	70	0	3	0		12	7	1
30	75	0	3	0		11	6	1
30	80	0	2	0		10	5	1
30	85	0	2	0		9	4	1
30	90	0	1	0		8	3	1
30	95	0	1	0		7	2	1
30	100	0	0	0		6	1	1
30	105	0	0	0		5	0	1
30	110	0	0	0		4	0	1
30	115	0	0	0		3	0	1
30	120	0	0	0		2	0	1
30	125	0	0	0		1	0	1
30	130	0	0	0		0	0	1
30	135	0	0	0		0	0	1
30	140	0	0	0		0	0	1
30	145	0	0	0		0	0	1
30	150	0	0	0		0	0	1
30	155	0	0	0		0	0	1
30	160	0	0	0		0	0	1
30	165	0	0	0		0	0	1
30	170	0	0	0		0	0	1
30	175	0	0	0		0	0	1
30	180	0	0	0		0	0	1
30	185	0	0	0		0	0	1
30	190	0	0	0		0	0	1
30	195	0	0	0		0	0	1
30	200	0	0	0		0	0	1
30	205	0	0	0		0	0	1
30	210	0	0	0		0	0	1
30	215	0	0	0		0	0	1
30	220	0	0	0		0	0	1
30	225	0	0	0		0	0	1
30	230	0	0	0		0	0	1
30	235	0	0	0		0	0	1
30	240	0	0	0		0	0	1
30	245	0	0	0		0	0	1
30	250	0	0	0		0	0	1
30	255	0	0	0		0	0	1
30	260	0	0	0		0	0	1
30	265	0	0	0		0	0	1
30	270	0	0	0		0	0	1
30	275	0	0	0		0	0	1
30	280	0	0	0		0	0	1
30	285	0	0	0		0	0	1
30	290	0	0	0		0	0	1
30	295	0	0	0		0	0	1
30	300	0	0	0		0	0	1
30	305	0	0	0		0	0	1
30	310	0	0	0		0	0	1
30	315	0	0	0		0	0	1
30	320	0	0	0		0	0	1
30	325	0	0	0		0	0	1
30	330	0	0	0		0	0	1
30	335	0	0	0		0	0	1
30	340	0	0	0		0	0	1
30	345	0	0	0		0	0	1
30	350	0	0	0		0	0	1
30	355	0	0	0		0	0	1
30	360	0	0	0		0	0	1
30	365	0	0	0		0	0	1
30	370	0	0	0		0	0	1
30	375	0	0	0		0	0	1
30	380	0	0	0		0	0	1
30	385	0	0	0		0	0	1
30	390	0	0	0		0	0	1
30	395	0	0	0		0	0	1
30	400	0	0	0		0	0	1
30	405	0	0	0		0	0	1
30	410	0	0	0		0	0	1
30	415	0	0	0		0	0	1
30	420	0	0	0		0	0	1
30	425	0	0	0		0	0	1
30	430	0	0	0		0	0	1
30	435	0	0	0		0	0	1
30	440	0	0	0		0	0	1
30	445	0	0	0		0	0	1
30	450	0	0	0		0	0	1
30	455	0	0	0		0	0	1
30	460	0	0	0		0	0	1
30	465	0	0	0		0	0	1
30	470	0	0	0		0	0	1
30	475	0	0	0		0	0	1
30	480	0	0	0		0	0	1
30	485	0	0	0		0	0	1
30	490	0	0	0		0	0	1
30	495	0	0	0		0	0	1
30	500	0	0	0		0	0	1
30	505	0	0	0		0	0	1
30	510	0	0	0		0	0	1
30	515	0	0	0		0	0	1
30	520	0	0	0		0	0	1
30	525	0	0	0		0	0	1
30	530	0	0	0		0	0	1
30	535	0	0	0		0	0	1
30	540	0	0	0		0	0	1
30	545	0	0	0		0	0	1
30	550	0	0	0		0	0	1
30	555	0	0	0		0	0	1
30	560	0	0	0		0	0	1
30	565	0	0	0		0	0	1
30	570	0	0	0		0	0	1
30	575	0	0	0		0	0	1
30	580	0	0	0		0	0	1
30	585	0	0	0		0	0	1
30	590	0	0	0		0	0	1
30	595	0	0	0		0	0	1
30	600	0	0	0		0	0	1
30	605	0	0	0		0	0	1
30	610	0	0	0		0	0	1
30	615	0	0	0		0	0	1
30	620	0	0	0		0	0	1
30	625	0	0	0		0	0	1
30	630	0	0	0		0	0	1
30	635	0	0	0		0	0	1
30	640	0	0	0		0	0	1
30	645	0	0	0		0	0	1
30	650	0	0	0		0	0	1
30	655	0	0	0		0	0	1
30	660	0	0	0		0	0	1
30	665	0	0	0		0	0	1
30	670	0	0	0		0	0	1
30	675	0	0	0		0	0	1
30	680	0	0	0		0	0	1
30	685	0	0	0		0	0	1
30	690	0	0	0		0	0	1
30	695	0	0	0		0	0	1
30	700	0	0	0		0	0	1
30	705	0	0	0		0	0	1
30	710	0	0	0		0	0	1
30	715	0	0	0		0	0	1
30	720	0	0	0		0	0	1
30	725	0	0	0		0	0	1
30	730	0	0	0		0	0	1
30	735	0	0	0		0	0	1
30	740	0	0	0		0	0	1
30	745	0	0	0		0	0	1
30	750	0	0	0		0	0	1
30	755	0	0	0		0	0	1
30	760	0	0	0		0	0	1
30	765	0	0	0		0	0	1
30	770	0	0	0		0	0	1
30	775	0	0	0		0	0	1
30	780	0	0	0		0	0	1
30	785	0	0	0		0	0	1
30	790	0	0	0		0	0	1
30	795	0	0	0		0	0	1
30	800	0	0	0		0	0	1
30	805	0	0	0		0	0	1
30	810	0	0	0		0	0	1
30	815	0	0	0		0	0	1
30	820	0	0	0		0	0	1
30	825	0	0	0		0	0	1
30	830	0	0	0		0	0	1
30	835	0	0	0		0	0	1
30	840	0	0	0		0	0	1
30	845	0	0	0		0	0	1
30	850	0	0	0		0	0	1
30	855	0	0	0		0	0	1
30	860	0	0	0		0	0	1
30	865	0	0	0		0	0	1
30	870	0	0	0		0	0	1
30	875	0	0	0		0	0	1
30	880	0	0	0		0	0	1
30	885	0	0	0		0	0	1
30	890	0	0	0		0	0	1
30	895	0	0	0		0	0	1
30	900	0	0	0		0	0	1
30	905	0	0	0		0	0	1
30	910	0	0	0		0	0	1
30	915	0	0	0		0	0	1
30	920	0	0	0		0	0	1
30	925	0	0	0		0	0	1
30	930	0	0	0		0	0	1
30	935	0	0	0		0	0	1
30	940	0	0	0		0	0	1
30	945	0	0	0		0	0	1
30	950	0	0	0		0	0	1
30	955	0	0	0		0	0	1
30	960	0	0	0		0	0	1
30	965	0	0	0		0	0	1
30	970	0	0	0		0	0	1
30	975	0	0	0		0	0	1
30	980	0	0	0		0	0	1
30	985	0	0	0		0	0	1
30	990	0	0	0		0	0	1
30	995	0	0	0		0	0	1

RUN NUMBER

=66

SOURCE DIA. (CM)

=15.00

SOURCE SPECIFIC GRAVITY

=4.18

SOURCE TIME DURATION (SEC)

=STEADY

SOURCE FLOW RATE (CCS)

=60.5

VELOCITY (CM/S) AT 2.1 CM

=33.5

POSITION			MODEL			FIELD		
X	Y	Z	PEAK	MEAN	RMS	PEAK	MEAN	RMS
(CM)	(CM)	(CM)	CONC	CONC	CONC	CONC	CONC	CONC
121.9	50.0	0.0	1.7	1.2	.2	4.4	2.2	1.5
121.9	55.0	0.0	1.5	1.1	.2	4.4	2.2	1.5
121.9	60.0	0.0	1.2	.8	.2	4.4	2.2	1.5
121.9	65.0	0.0	1.1	.6	.1	4.4	2.2	1.5
121.9	70.0	0.0	.8	.4	.2	4.4	2.2	1.5
243.8	50.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	55.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	60.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	65.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	70.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	75.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	80.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	85.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	90.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	95.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	100.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	105.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	110.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	115.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	120.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	125.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	130.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	135.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	140.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	145.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	150.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	155.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	160.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	165.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	170.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	175.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	180.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	185.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	190.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	195.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	200.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	205.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	210.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	215.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	220.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	225.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	230.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	235.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	240.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	245.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	250.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	255.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	260.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	265.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	270.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	275.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	280.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	285.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	290.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	295.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	300.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	305.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	310.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	315.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	320.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	325.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	330.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	335.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	340.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	345.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	350.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	355.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	360.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	365.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	370.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	375.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	380.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	385.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	390.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	395.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	400.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	405.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	410.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	415.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	420.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	425.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	430.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	435.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	440.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	445.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	450.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	455.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	460.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	465.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	470.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	475.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	480.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	485.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	490.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	495.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5
243.8	500.0	0.0	1.1	1.0	0.0	4.4	2.2	1.5

RUN NUMBER

=67

SOURCE DIA. (CM) =15.00  
 SOURCE SPECIFIC GRAVITY =4.18  
 SOURCE TIME DURATION (SEC) =9 STEADY  
 SOURCE FLOW RATE (CCS) =200.0  
 VELOCITY (CM/S) AT 2.1 CM =35.0

POSITION			MODEL			FIELD		
X	Y	Z	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
(CM)	(CM)	(CM)						
30.0	0.0	0.0	22	19	1	43	39	1
30.0	5.0	0.0	22	19	1	41	39	1
30.0	10.0	0.0	20	16	1	38	35	1
30.0	15.0	0.0	20	16	1	40	38	1
30.0	20.0	0.0	18	16	1	37	34	1
30.0	25.0	0.0	17	14	1	35	31	1
30.0	30.0	0.0	12	11	1	22	22	1
30.0	35.0	0.0	11	9	1	20	20	1
30.0	40.0	0.0	10	9	1	19	17	1
30.0	45.0	0.0	10	8	1	19	16	1
30.0	50.0	0.0	10	8	1	19	16	1
30.0	55.0	0.0	10	8	1	19	16	1
30.0	60.0	0.0	10	8	1	19	16	1
30.0	65.0	0.0	10	8	1	19	16	1
30.0	70.0	0.0	10	8	1	19	16	1
30.0	75.0	0.0	10	8	1	19	16	1
30.0	80.0	0.0	10	8	1	19	16	1
30.0	85.0	0.0	10	8	1	19	16	1
30.0	90.0	0.0	10	8	1	19	16	1
30.0	95.0	0.0	10	8	1	19	16	1
30.0	100.0	0.0	10	8	1	19	16	1
30.0	105.0	0.0	10	8	1	19	16	1
30.0	110.0	0.0	10	8	1	19	16	1
30.0	115.0	0.0	10	8	1	19	16	1
30.0	120.0	0.0	10	8	1	19	16	1
30.0	125.0	0.0	10	8	1	19	16	1
30.0	130.0	0.0	10	8	1	19	16	1
30.0	135.0	0.0	10	8	1	19	16	1
30.0	140.0	0.0	10	8	1	19	16	1
30.0	145.0	0.0	10	8	1	19	16	1
30.0	150.0	0.0	10	8	1	19	16	1
30.0	155.0	0.0	10	8	1	19	16	1
30.0	160.0	0.0	10	8	1	19	16	1
30.0	165.0	0.0	10	8	1	19	16	1
30.0	170.0	0.0	10	8	1	19	16	1
30.0	175.0	0.0	10	8	1	19	16	1
30.0	180.0	0.0	10	8	1	19	16	1
30.0	185.0	0.0	10	8	1	19	16	1
30.0	190.0	0.0	10	8	1	19	16	1
30.0	195.0	0.0	10	8	1	19	16	1
30.0	200.0	0.0	10	8	1	19	16	1

RUN NUMBER

=67

SOURCE DIA. (CM) =15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 200.0  
 VELOCITY (CM/S) AT 2.1 CM = 35.0

POSITION			MODEL			FIELD		
X	Y	Z	PEAK	MEAN	RMS	PEAK	MEAN	RMS
(CM)	(CM)	(CM)	CONC	CONC	CONC	CONC	CONC	CONC
61.9	85.0	0.0	2.2	1.0	.4	2.7	1.4	1.0
61.9	90.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
61.9	95.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
61.9	100.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
61.9	105.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	5.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	10.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	15.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	20.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	25.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	30.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	35.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	70.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	75.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	80.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	85.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	90.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	95.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	100.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	105.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	110.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	115.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	120.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	125.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
121.9	130.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
243.0	5.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
243.0	10.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
243.0	15.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
243.0	20.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
243.0	25.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
243.0	30.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
243.0	35.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
243.0	70.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
243.0	75.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
243.0	80.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
243.0	85.0	0.0	2.2	1.1	.4	2.7	1.4	1.0
243.0	90.0	0.0	2.2	1.1	.4	2.7	1.4	1.0



RUN NUMBER = 67  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 192.0  
 VELOCITY (CM/S) AT 2.1 CM = 35.0

X (CM)	POSITION		PEAK CONC	MODEL			FIELD		
	Y (CM)	Z (CM)		MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC	
61.0	0.0	0.0	11.5	10.7	0.0	26.0	24.5	0.6	
61.0	0.0	1.0	3.0	4.2	0.0	18.4	11.8	2.1	
61.0	0.0	2.0	0.0	0.0	0.0	1.0	0.0	0.0	
61.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	
61.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	
61.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	
61.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	
61.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	
61.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	
61.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	
61.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	
121.0	0.0	0.0	5.4	5.0	0.0	15.6	14.7	0.4	
121.0	0.0	1.0	3.0	5.0	0.0	14.5	12.5	1.3	
121.0	0.0	2.0	1.1	1.2	0.0	7.7	3.2	1.3	
121.0	0.0	3.0	0.0	0.0	0.0	3.0	0.0	0.0	
121.0	0.0	4.0	0.0	0.0	0.0	1.6	0.0	0.0	
121.0	0.0	5.0	0.0	0.0	0.0	1.1	0.0	0.0	
121.0	0.0	6.0	0.0	0.0	0.0	1.1	0.0	0.0	
121.0	0.0	7.0	0.0	0.0	0.0	0.3	0.0	0.0	



RUN NUMBER

=68

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 139.0  
 VELOCITY (CM/S) AT 2.1 CM = 44.2

X (CM)	POSITION		MODEL PEAK CONC	MEAN CONC	RMS CONC	FIELD PEAK CONC	MEAN CONC	RMS CONC
	Y (CM)	Z (CM)						
70.0	0.0	0.0	16.0	13.7	.7	34.0	27.0	1.2
70.0	5.0	0.0	18.0	16.0	.9	33.0	25.0	1.1
70.0	10.0	0.0	14.0	12.0	.7	31.0	24.0	1.0
70.0	15.0	0.0	15.0	13.0	.7	29.0	22.0	.9
70.0	20.0	0.0	13.0	11.0	.9	27.0	20.0	.9
70.0	25.0	0.0	11.0	9.0	1.1	25.0	18.0	1.0
70.0	30.0	0.0	10.0	8.0	1.4	23.0	16.0	1.1
70.0	35.0	0.0	9.0	7.0	1.7	21.0	15.0	1.1
70.0	40.0	0.0	8.0	6.0	2.0	19.0	14.0	1.1
70.0	45.0	0.0	7.0	5.0	2.4	17.0	13.0	1.1
70.0	50.0	0.0	6.0	4.0	2.8	16.0	12.0	1.1
70.0	55.0	0.0	5.0	3.0	3.3	15.0	11.0	1.1
70.0	60.0	0.0	4.0	2.0	3.9	14.0	10.0	1.1
61.0	0.0	0.0	4.0	2.0	4.4	13.0	9.0	1.1
61.0	5.0	0.0	4.0	2.0	4.9	12.0	8.0	1.1
61.0	10.0	0.0	4.0	2.0	5.4	11.0	7.0	1.1
61.0	15.0	0.0	4.0	2.0	5.9	10.0	6.0	1.1
61.0	20.0	0.0	4.0	2.0	6.4	9.0	5.0	1.1
61.0	25.0	0.0	4.0	2.0	6.9	8.0	4.0	1.1
61.0	30.0	0.0	4.0	2.0	7.4	7.0	3.0	1.1
61.0	35.0	0.0	4.0	2.0	7.9	6.0	2.0	1.1
61.0	40.0	0.0	4.0	2.0	8.4	5.0	1.0	1.1
61.0	45.0	0.0	4.0	2.0	8.9	4.0	0.0	1.1
61.0	50.0	0.0	4.0	2.0	9.4	3.0	0.0	1.1
61.0	55.0	0.0	4.0	2.0	9.9	2.0	0.0	1.1
61.0	60.0	0.0	4.0	2.0	10.4	1.0	0.0	1.1
121.0	0.0	0.0	4.0	2.0	10.9	0.0	0.0	1.1
121.0	5.0	0.0	4.0	2.0	11.4	0.0	0.0	1.1
121.0	10.0	0.0	4.0	2.0	11.9	0.0	0.0	1.1
121.0	15.0	0.0	4.0	2.0	12.4	0.0	0.0	1.1
121.0	20.0	0.0	4.0	2.0	12.9	0.0	0.0	1.1
121.0	25.0	0.0	4.0	2.0	13.4	0.0	0.0	1.1
121.0	30.0	0.0	4.0	2.0	13.9	0.0	0.0	1.1
121.0	35.0	0.0	4.0	2.0	14.4	0.0	0.0	1.1
121.0	40.0	0.0	4.0	2.0	14.9	0.0	0.0	1.1
121.0	45.0	0.0	4.0	2.0	15.4	0.0	0.0	1.1
121.0	50.0	0.0	4.0	2.0	15.9	0.0	0.0	1.1
121.0	55.0	0.0	4.0	2.0	16.4	0.0	0.0	1.1
121.0	60.0	0.0	4.0	2.0	16.9	0.0	0.0	1.1

RUN NUMBER

=68

SOURCE DIA. (CM) =15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 139.0  
 VELOCITY (CM/S) AT 2.1 CM = 44.2

X (CM)	POSITION		PEAK CONC	MODEL			FIELD		
	Y (CM)	Z (CM)		MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC	
121.9	40.0	0.0	4	2	.45	10	7	1	
121.9	45.0	0.0	4	2	.45	10	7	1	
121.9	50.0	0.0	4	2	.45	10	7	1	
121.9	55.0	0.0	4	2	.45	10	7	1	
121.9	60.0	0.0	4	2	.45	10	7	1	
121.9	65.0	0.0	4	2	.45	10	7	1	
121.9	70.0	0.0	4	2	.45	10	7	1	
243.0	0.0	0.0	4	2	.45	10	7	1	
243.0	5.0	0.0	4	2	.45	10	7	1	
243.0	10.0	0.0	4	2	.45	10	7	1	
243.0	15.0	0.0	4	2	.45	10	7	1	
243.0	20.0	0.0	4	2	.45	10	7	1	
243.0	25.0	0.0	4	2	.45	10	7	1	
243.0	30.0	0.0	4	2	.45	10	7	1	
243.0	35.0	0.0	4	2	.45	10	7	1	
243.0	40.0	0.0	4	2	.45	10	7	1	
243.0	45.0	0.0	4	2	.45	10	7	1	
243.0	50.0	0.0	4	2	.45	10	7	1	
243.0	55.0	0.0	4	2	.45	10	7	1	
243.0	60.0	0.0	4	2	.45	10	7	1	
243.0	65.0	0.0	4	2	.45	10	7	1	
243.0	70.0	0.0	4	2	.45	10	7	1	
243.0	75.0	0.0	4	2	.45	10	7	1	
243.0	80.0	0.0	4	2	.45	10	7	1	
243.0	85.0	0.0	4	2	.45	10	7	1	
243.0	90.0	0.0	4	2	.45	10	7	1	
243.0	95.0	0.0	4	2	.45	10	7	1	
243.0	100.0	0.0	4	2	.45	10	7	1	
243.0	105.0	0.0	4	2	.45	10	7	1	
243.0	110.0	0.0	4	2	.45	10	7	1	
243.0	115.0	0.0	4	2	.45	10	7	1	
243.0	120.0	0.0	4	2	.45	10	7	1	
243.0	125.0	0.0	4	2	.45	10	7	1	
243.0	130.0	0.0	4	2	.45	10	7	1	
243.0	135.0	0.0	4	2	.45	10	7	1	
243.0	140.0	0.0	4	2	.45	10	7	1	
243.0	145.0	0.0	4	2	.45	10	7	1	
243.0	150.0	0.0	4	2	.45	10	7	1	
243.0	155.0	0.0	4	2	.45	10	7	1	
243.0	160.0	0.0	4	2	.45	10	7	1	
243.0	165.0	0.0	4	2	.45	10	7	1	
243.0	170.0	0.0	4	2	.45	10	7	1	
243.0	175.0	0.0	4	2	.45	10	7	1	
243.0	180.0	0.0	4	2	.45	10	7	1	
243.0	185.0	0.0	4	2	.45	10	7	1	
243.0	190.0	0.0	4	2	.45	10	7	1	
243.0	195.0	0.0	4	2	.45	10	7	1	
243.0	200.0	0.0	4	2	.45	10	7	1	
243.0	205.0	0.0	4	2	.45	10	7	1	
243.0	210.0	0.0	4	2	.45	10	7	1	
243.0	215.0	0.0	4	2	.45	10	7	1	
243.0	220.0	0.0	4	2	.45	10	7	1	
243.0	225.0	0.0	4	2	.45	10	7	1	
243.0	230.0	0.0	4	2	.45	10	7	1	
243.0	235.0	0.0	4	2	.45	10	7	1	
243.0	240.0	0.0	4	2	.45	10	7	1	
243.0	245.0	0.0	4	2	.45	10	7	1	
243.0	250.0	0.0	4	2	.45	10	7	1	
243.0	255.0	0.0	4	2	.45	10	7	1	
243.0	260.0	0.0	4	2	.45	10	7	1	
243.0	265.0	0.0	4	2	.45	10	7	1	
243.0	270.0	0.0	4	2	.45	10	7	1	
243.0	275.0	0.0	4	2	.45	10	7	1	
243.0	280.0	0.0	4	2	.45	10	7	1	
243.0	285.0	0.0	4	2	.45	10	7	1	
243.0	290.0	0.0	4	2	.45	10	7	1	
243.0	295.0	0.0	4	2	.45	10	7	1	
243.0	300.0	0.0	4	2	.45	10	7	1	
243.0	305.0	0.0	4	2	.45	10	7	1	
243.0	310.0	0.0	4	2	.45	10	7	1	
243.0	315.0	0.0	4	2	.45	10	7	1	
243.0	320.0	0.0	4	2	.45	10	7	1	
243.0	325.0	0.0	4	2	.45	10	7	1	
243.0	330.0	0.0	4	2	.45	10	7	1	
243.0	335.0	0.0	4	2	.45	10	7	1	
243.0	340.0	0.0	4	2	.45	10	7	1	
243.0	345.0	0.0	4	2	.45	10	7	1	
243.0	350.0	0.0	4	2	.45	10	7	1	
243.0	355.0	0.0	4	2	.45	10	7	1	
243.0	360.0	0.0	4	2	.45	10	7	1	
243.0	365.0	0.0	4	2	.45	10	7	1	
243.0	370.0	0.0	4	2	.45	10	7	1	
243.0	375.0	0.0	4	2	.45	10	7	1	
243.0	380.0	0.0	4	2	.45	10	7	1	
243.0	385.0	0.0	4	2	.45	10	7	1	
243.0	390.0	0.0	4	2	.45	10	7	1	
243.0	395.0	0.0	4	2	.45	10	7	1	
243.0	400.0	0.0	4	2	.45	10	7	1	
243.0	405.0	0.0	4	2	.45	10	7	1	
243.0	410.0	0.0	4	2	.45	10	7	1	
243.0	415.0	0.0	4	2	.45	10	7	1	
243.0	420.0	0.0	4	2	.45	10	7	1	
243.0	425.0	0.0	4	2	.45	10	7	1	
243.0	430.0	0.0	4	2	.45	10	7	1	
243.0	435.0	0.0	4	2	.45	10	7	1	
243.0	440.0	0.0	4	2	.45	10	7	1	
243.0	445.0	0.0	4	2	.45	10	7	1	
243.0	450.0	0.0	4	2	.45	10	7	1	
243.0	455.0	0.0	4	2	.45	10	7	1	
243.0	460.0	0.0	4	2	.45	10	7	1	
243.0	465.0	0.0	4	2	.45	10	7	1	
243.0	470.0	0.0	4	2	.45	10	7	1	
243.0	475.0	0.0	4	2	.45	10	7	1	
243.0	480.0	0.0	4	2	.45	10	7	1	
243.0	485.0	0.0	4	2	.45	10	7	1	
243.0	490.0	0.0	4	2	.45	10	7	1	
243.0	495.0	0.0	4	2	.45	10	7	1	
243.0	500.0	0.0	4	2	.45	10	7	1	

RUN NUMBER = 68  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 139.0  
 VELOCITY (CM/S) AT 2.1 CM = 44.2

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
365.8	40.0	0.0	1.5	1.4	0.0	4.0	3.7	0.0
365.8	45.0	0.0	1.5	1.3	0.0	4.0	3.4	0.0
365.8	50.0	0.0	1.6	1.4	0.0	4.2	3.7	0.0
365.8	55.0	0.0	1.5	1.3	0.0	4.0	3.4	0.0
365.8	60.0	0.0	1.5	1.3	0.0	4.0	3.4	0.0
365.8	65.0	0.0	1.4	1.2	0.0	3.7	3.2	0.0
365.8	70.0	0.0	1.3	1.1	0.0	3.4	2.9	0.0

RUN NUMBER

= 69

SOURCE DIA. (CM)
SOURCE SPECIFIC GRAVITY
SOURCE TIME DURATION (SEC)
SOURCE FLOW RATE (CCS)
VELOCITY (CM/S) AT 2.1 CM

= 15.00
= 4.18
= STEADY
= 200.0
= 50.0

Table with columns: POSITION (X, Y, Z), MODEL (PEAK CONC, MEAN CONC, RMS CONC), FIELD (PEAK CONC, MEAN CONC, RMS CONC). Rows contain numerical data for various positions and models.

RUN NUMBER

=69

SOURCE DIA. (CM) =15.00  
 SOURCE SPECIFIC GRAVITY =4.18  
 SOURCE TIME DURATION (SEC) =STEADY  
 SOURCE FLOW RATE (CCS) =200.0  
 VELOCITY (CM/S) AT 2.1 CM =50.0

X (CM)	POSITION		PEAK CONC	MODEL MEAN CONC	RMS CONC	FIELD		RMS CONC
	Y (CM)	Z (CM)				PEAK CONC	MEAN CONC	
121.9	30.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
121.9	35.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
121.9	70.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
121.9	75.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
121.9	80.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
121.9	85.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	0.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	5.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	10.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	15.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	20.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	25.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	30.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	35.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	40.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	45.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	50.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	55.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	60.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	65.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	70.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	75.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	80.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	85.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	90.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	95.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	100.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	105.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	110.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	115.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	120.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	125.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	130.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	135.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	140.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	145.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	150.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	155.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	160.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	165.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	170.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	175.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	180.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	185.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	190.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	195.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1
224.3	200.0	0.0	11.1	4.4	11.1	11.1	11.1	11.1

RUN NUMBER = 69  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 200.0  
 VELOCITY (CM/S) AT 2.1 CM = 50.0

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
365.8	80.0	0.0	1.5	1.1	.2	4.0	2.9	.5
365.8	85.0	0.0	1.3	.8	.2	3.4	2.1	.5
365.8	90.0	0.0	1.3	.7	.2	3.2	1.9	.5
365.8	95.0	0.0	1.0	.3	.2	2.7	.8	.5
365.8	100.0	0.0	.7	.3	.2	1.9	.8	.5
365.8	105.0	0.0	.6	.2	.2	1.6	.5	.5

RUN NUMBER = 69  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 192.0  
 VELOCITY (CM/S) AT 2.1 CM = 50.0

X (CM)	POSITION			MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC	
61.9	0.0	0.0	11.4	10.3	.5	25.8	23.7	1.0	
61.9	0.0	1.0	8.4	3.1	1.4	19.9	8.0	3.4	
61.9	0.0	2.0	2.0	2.2	0.0	5.7	5.5	0.0	
61.9	0.0	3.0	0.0	0.0	0.0	2.4	0.0	0.0	
61.9	0.0	4.0	0.0	0.0	0.0	2.4	0.0	0.0	
61.9	0.0	5.0	0.0	0.0	0.0	1.3	0.0	0.0	
61.9	0.0	6.0	0.0	0.0	0.0	1.1	0.0	0.0	
61.9	0.0	7.0	0.0	0.0	0.0	1.1	0.0	0.0	
121.9	0.0	0.0	6.6	6.0	2.2	16.0	14.7	1.4	
121.9	0.0	1.0	6.6	4.6	7.7	14.7	11.5	1.8	
121.9	0.0	2.0	2.2	1.0	7.7	9.9	2.7	1.0	
121.9	0.0	3.0	0.0	0.0	0.0	6.7	0.0	0.0	
121.9	0.0	4.0	0.0	0.0	0.0	2.7	0.0	0.0	
121.9	0.0	5.0	0.0	0.0	0.0	1.9	0.0	0.0	
121.9	0.0	6.0	0.0	0.0	0.0	2.1	0.0	0.0	
121.9	0.0	7.0	0.0	0.0	0.0	1.9	0.0	0.0	

RUN NUMBER

=70

SOURCE DIA. (CM) = 15.00  
SOURCE SPECIFIC GRAVITY = 4.18  
SOURCE TIME DURATION (SEC) = STEADY  
SOURCE FLOW RATE (CCS) = 55.0  
VELOCITY (CM/S) AT 2.1 CM = 55.4

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
0.0	0.0	0.0	10.0	8.0	.77	0.0	19.0	1.1
0.0	5.0	0.0	11.0	9.0	.77	0.0	21.0	1.1
0.0	10.0	0.0	11.0	9.0	.77	0.0	17.0	1.1
0.0	15.0	0.0	10.0	8.0	.77	0.0	15.0	1.1
0.0	20.0	0.0	9.0	7.0	.77	0.0	10.0	1.1
0.0	25.0	0.0	8.0	6.0	.77	0.0	4.0	1.1
0.0	30.0	0.0	7.0	5.0	.77	0.0	0.0	1.1
0.0	35.0	0.0	6.0	4.0	.77	0.0	0.0	1.1
0.0	40.0	0.0	5.0	3.0	.77	0.0	0.0	1.1
0.0	45.0	0.0	4.0	2.0	.77	0.0	0.0	1.1
0.0	50.0	0.0	3.0	1.0	.77	0.0	0.0	1.1
0.0	55.0	0.0	2.0	0.0	.77	0.0	0.0	1.1
0.0	60.0	0.0	1.0	0.0	.77	0.0	0.0	1.1
0.0	65.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	70.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	75.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	80.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	85.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	90.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	95.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	100.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	105.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	110.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	115.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	120.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	125.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	130.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	135.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	140.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	145.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	150.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	155.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	160.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	165.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	170.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	175.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	180.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	185.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	190.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	195.0	0.0	0.0	0.0	.77	0.0	0.0	1.1
0.0	200.0	0.0	0.0	0.0	.77	0.0	0.0	1.1



RUN NUMBER =70  
 SOURCE DIA. (CM) =15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) =STEADY  
 SOURCE FLOW RATE (CCS) = 55.0  
 VELOCITY (CM/S) AT 2.1 CM = 55.4

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
243.0	55.0	0.0	1.1	.5	.2	2.9	1.3	.5
243.0	60.0	0.0	.8	.3	.2	2.1	.8	.5
243.0	65.0	0.0	.6	.1	.1	1.6	.3	.4
365.0	0.0	0.0	.6	.3	.1	1.6	.8	.4
365.0	5.0	0.0	.7	.4	.1	1.9	1.1	.4
365.0	10.0	0.0	.6	.4	.1	1.6	1.1	.4
365.0	15.0	0.0	.7	.5	.1	1.9	1.3	.4
365.0	20.0	0.0	.8	.5	.1	2.1	1.3	.4
365.0	25.0	0.0	.7	.5	.1	1.9	1.3	.4
365.0	30.0	0.0	.7	.5	.1	1.9	1.3	.4
365.0	35.0	0.0	.8	.6	.1	2.1	1.6	.4

RUN NUMBER

=71

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 318.0  
 VELOCITY (CM/S) AT 2.1 CM = 58.4

X (CM)	POSITION		PEAK CONC	MODEL MEAN CONC	RMS CONC	FIELD		
	Y (CM)	Z (CM)				PEAK CONC	MEAN CONC	RMS CONC
300.5	0.0	0.0	21.8	16	2.4	43.0	34.3	4.0
300.5	5.0	0.0	20.0	225	1.0	55.7	48.1	4.4
300.5	10.0	0.0	20.1	225	.9	47.5	43.7	4.4
300.5	15.0	0.0	22.9	225	1.1	50.1	48.4	4.4
300.5	20.0	0.0	26.5	233	.9	49.5	45.6	4.4
300.5	25.0	0.0	18.7	16	.7	38.3	33.4	4.4
300.5	30.0	0.0	20.9	16	1.0	41.7	36.3	4.4
300.5	35.0	0.0	18.3	14	1.2	37.7	33.0	4.4
300.5	40.0	0.0	20.0	16	1.4	40.3	34.4	4.4
300.5	45.0	0.0	19.0	16	1.4	40.0	34.4	4.4
300.5	50.0	0.0	13.1	10	1.2	28.9	24.4	4.4
300.5	55.0	0.0	12.6	9	1.1	28.0	21.1	4.4
300.5	60.0	0.0	10.2	5	1.1	23.3	14.3	4.4
300.5	65.0	0.0	5.9	2	1.1	14.5	1.1	4.4
300.5	70.0	0.0	4.4	0	0.0	11.1	0.0	4.4
300.5	75.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	80.0	0.0	1.6	14	1.1	3.3	2.2	4.4
300.5	85.0	0.0	1.3	12	1.1	3.3	2.2	4.4
300.5	90.0	0.0	1.6	14	1.1	3.3	2.2	4.4
300.5	95.0	0.0	1.3	11	1.1	3.3	2.2	4.4
300.5	100.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	105.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	110.0	0.0	1.3	11	1.1	3.3	2.2	4.4
300.5	115.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	120.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	125.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	130.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	135.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	140.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	145.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	150.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	155.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	160.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	165.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	170.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	175.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	180.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	185.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	190.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	195.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	200.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	205.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	210.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	215.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	220.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	225.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	230.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	235.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	240.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	245.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	250.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	255.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	260.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	265.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	270.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	275.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	280.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	285.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	290.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	295.0	0.0	1.4	12	1.1	3.3	2.2	4.4
300.5	300.0	0.0	1.4	12	1.1	3.3	2.2	4.4

RUN NUMBER

=71

SOURCE DIA. (CM) = 15.00  
SOURCE SPECIFIC GRAVITY = 4.18  
SOURCE TIME DURATION (SEC) = STEADY  
SOURCE FLOW RATE (CCS) = 318.0  
VELOCITY (CM/S) AT 2.1 CM = 59.4

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
121.0	35.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	40.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	45.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	50.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	55.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	60.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	70.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	75.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	80.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	85.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	90.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	95.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	100.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	105.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	110.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	115.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	120.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	125.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	130.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	135.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	140.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	145.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	150.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	155.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	160.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	165.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	170.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	175.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	180.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	185.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	190.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	195.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	200.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	205.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	210.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	215.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	220.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	225.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	230.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	235.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	240.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	245.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	250.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	255.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	260.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	265.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	270.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	275.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	280.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	285.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	290.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	295.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
121.0	300.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0

RUN NUMBER

=71

SOURCE DIA. (CM)

=15.00

SOURCE SPECIFIC GRAVITY

= 4.18

SOURCE TIME DURATION (SEC)

= STEADY

SOURCE FLOW RATE (CCS)

= 318.0

VELOCITY (CM/S) AT 2.1 CM

= 58.4

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
76.0	70.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
76.0	75.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
76.0	80.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
76.0	85.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
76.0	90.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
76.0	95.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
76.0	100.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
76.0	105.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
76.0	110.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
76.0	115.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
76.0	120.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
76.0	125.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
76.0	130.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
76.0	135.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
76.0	140.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2

RUN NUMBER

=72

SOURCE DIA. (CM) = 15.00  
SOURCE SPECIFIC GRAVITY = 4.18  
SOURCE TIME DURATION (SEC) = STEADY  
SOURCE FLOW RATE (CCS) = 200.0  
VELOCITY (CM/S) AT 2.1 CM = 70.0

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
1.0	0.0	0.0	21.2	15.7	2.3	42.1	33.5	3.9
1.0	5.0	0.0	20.0	17.5	1.6	41.4	35.7	2.9
1.0	10.0	0.0	22.1	18.1	1.1	42.1	38.0	1.7
1.0	15.0	0.0	22.2	19.5	1.1	44.2	39.9	1.1
1.0	20.0	0.0	22.2	21.1	1.1	44.2	40.0	0.0
1.0	25.0	0.0	21.9	22.9	1.1	40.0	33.3	0.0
1.0	30.0	0.0	22.0	24.4	1.1	40.0	33.3	0.0
1.0	35.0	0.0	22.0	26.6	1.1	31.1	22.2	0.0
1.0	40.0	0.0	21.4	29.9	1.1	26.6	15.5	0.0
1.0	45.0	0.0	11.1	33.3	2.2	22.7	12.2	0.0
1.0	50.0	0.0	12.2	37.7	2.2	27.7	12.2	0.0
1.0	55.0	0.0	12.2	44.4	1.1	29.9	12.2	0.0
1.0	60.0	0.0	12.2	55.5	1.1	27.7	12.2	0.0
1.0	65.0	0.0	11.1	70.0	1.1	24.4	12.2	0.0
1.0	70.0	0.0	11.1	88.8	1.1	22.2	11.1	0.0
1.0	75.0	0.0	11.1	111.1	1.1	22.2	11.1	0.0
1.0	80.0	0.0	11.1	144.4	1.1	22.2	11.1	0.0
1.0	85.0	0.0	11.1	188.8	1.1	22.2	11.1	0.0
1.0	90.0	0.0	11.1	255.5	1.1	22.2	11.1	0.0
1.0	95.0	0.0	11.1	355.5	1.1	22.2	11.1	0.0
1.0	100.0	0.0	11.1	500.0	1.1	22.2	11.1	0.0
1.0	105.0	0.0	11.1	700.0	1.1	22.2	11.1	0.0
1.0	110.0	0.0	11.1	1000.0	1.1	22.2	11.1	0.0
1.0	115.0	0.0	11.1	1444.4	1.1	22.2	11.1	0.0
1.0	120.0	0.0	11.1	2000.0	1.1	22.2	11.1	0.0
1.0	125.0	0.0	11.1	2777.7	1.1	22.2	11.1	0.0
1.0	130.0	0.0	11.1	3888.8	1.1	22.2	11.1	0.0
1.0	135.0	0.0	11.1	5555.5	1.1	22.2	11.1	0.0
1.0	140.0	0.0	11.1	7777.7	1.1	22.2	11.1	0.0
1.0	145.0	0.0	11.1	11111.1	1.1	22.2	11.1	0.0
1.0	150.0	0.0	11.1	15555.5	1.1	22.2	11.1	0.0
1.0	155.0	0.0	11.1	22222.2	1.1	22.2	11.1	0.0
1.0	160.0	0.0	11.1	31111.1	1.1	22.2	11.1	0.0
1.0	165.0	0.0	11.1	44444.4	1.1	22.2	11.1	0.0
1.0	170.0	0.0	11.1	61111.1	1.1	22.2	11.1	0.0
1.0	175.0	0.0	11.1	83333.3	1.1	22.2	11.1	0.0
1.0	180.0	0.0	11.1	115555.5	1.1	22.2	11.1	0.0
1.0	185.0	0.0	11.1	161111.1	1.1	22.2	11.1	0.0
1.0	190.0	0.0	11.1	222222.2	1.1	22.2	11.1	0.0
1.0	195.0	0.0	11.1	311111.1	1.1	22.2	11.1	0.0
1.0	200.0	0.0	11.1	444444.4	1.1	22.2	11.1	0.0
1.0	205.0	0.0	11.1	611111.1	1.1	22.2	11.1	0.0
1.0	210.0	0.0	11.1	833333.3	1.1	22.2	11.1	0.0
1.0	215.0	0.0	11.1	1155555.5	1.1	22.2	11.1	0.0
1.0	220.0	0.0	11.1	1611111.1	1.1	22.2	11.1	0.0
1.0	225.0	0.0	11.1	2222222.2	1.1	22.2	11.1	0.0
1.0	230.0	0.0	11.1	3111111.1	1.1	22.2	11.1	0.0
1.0	235.0	0.0	11.1	4444444.4	1.1	22.2	11.1	0.0
1.0	240.0	0.0	11.1	6111111.1	1.1	22.2	11.1	0.0
1.0	245.0	0.0	11.1	8333333.3	1.1	22.2	11.1	0.0
1.0	250.0	0.0	11.1	11555555.5	1.1	22.2	11.1	0.0
1.0	255.0	0.0	11.1	16111111.1	1.1	22.2	11.1	0.0
1.0	260.0	0.0	11.1	22222222.2	1.1	22.2	11.1	0.0
1.0	265.0	0.0	11.1	31111111.1	1.1	22.2	11.1	0.0
1.0	270.0	0.0	11.1	44444444.4	1.1	22.2	11.1	0.0
1.0	275.0	0.0	11.1	61111111.1	1.1	22.2	11.1	0.0
1.0	280.0	0.0	11.1	83333333.3	1.1	22.2	11.1	0.0
1.0	285.0	0.0	11.1	115555555.5	1.1	22.2	11.1	0.0
1.0	290.0	0.0	11.1	161111111.1	1.1	22.2	11.1	0.0
1.0	295.0	0.0	11.1	222222222.2	1.1	22.2	11.1	0.0
1.0	300.0	0.0	11.1	311111111.1	1.1	22.2	11.1	0.0
1.0	305.0	0.0	11.1	444444444.4	1.1	22.2	11.1	0.0
1.0	310.0	0.0	11.1	611111111.1	1.1	22.2	11.1	0.0
1.0	315.0	0.0	11.1	833333333.3	1.1	22.2	11.1	0.0
1.0	320.0	0.0	11.1	1155555555.5	1.1	22.2	11.1	0.0
1.0	325.0	0.0	11.1	1611111111.1	1.1	22.2	11.1	0.0
1.0	330.0	0.0	11.1	2222222222.2	1.1	22.2	11.1	0.0
1.0	335.0	0.0	11.1	3111111111.1	1.1	22.2	11.1	0.0
1.0	340.0	0.0	11.1	4444444444.4	1.1	22.2	11.1	0.0
1.0	345.0	0.0	11.1	6111111111.1	1.1	22.2	11.1	0.0
1.0	350.0	0.0	11.1	8333333333.3	1.1	22.2	11.1	0.0
1.0	355.0	0.0	11.1	11555555555.5	1.1	22.2	11.1	0.0
1.0	360.0	0.0	11.1	16111111111.1	1.1	22.2	11.1	0.0
1.0	365.0	0.0	11.1	22222222222.2	1.1	22.2	11.1	0.0
1.0	370.0	0.0	11.1	31111111111.1	1.1	22.2	11.1	0.0
1.0	375.0	0.0	11.1	44444444444.4	1.1	22.2	11.1	0.0
1.0	380.0	0.0	11.1	61111111111.1	1.1	22.2	11.1	0.0
1.0	385.0	0.0	11.1	83333333333.3	1.1	22.2	11.1	0.0
1.0	390.0	0.0	11.1	115555555555.5	1.1	22.2	11.1	0.0
1.0	395.0	0.0	11.1	161111111111.1	1.1	22.2	11.1	0.0
1.0	400.0	0.0	11.1	222222222222.2	1.1	22.2	11.1	0.0
1.0	405.0	0.0	11.1	311111111111.1	1.1	22.2	11.1	0.0
1.0	410.0	0.0	11.1	444444444444.4	1.1	22.2	11.1	0.0
1.0	415.0	0.0	11.1	611111111111.1	1.1	22.2	11.1	0.0
1.0	420.0	0.0	11.1	833333333333.3	1.1	22.2	11.1	0.0
1.0	425.0	0.0	11.1	1155555555555.5	1.1	22.2	11.1	0.0
1.0	430.0	0.0	11.1	1611111111111.1	1.1	22.2	11.1	0.0
1.0	435.0	0.0	11.1	2222222222222.2	1.1	22.2	11.1	0.0
1.0	440.0	0.0	11.1	3111111111111.1	1.1	22.2	11.1	0.0
1.0	445.0	0.0	11.1	4444444444444.4	1.1	22.2	11.1	0.0
1.0	450.0	0.0	11.1	6111111111111.1	1.1	22.2	11.1	0.0
1.0	455.0	0.0	11.1	8333333333333.3	1.1	22.2	11.1	0.0
1.0	460.0	0.0	11.1	11555555555555.5	1.1	22.2	11.1	0.0
1.0	465.0	0.0	11.1	16111111111111.1	1.1	22.2	11.1	0.0
1.0	470.0	0.0	11.1	22222222222222.2	1.1	22.2	11.1	0.0
1.0	475.0	0.0	11.1	31111111111111.1	1.1	22.2	11.1	0.0
1.0	480.0	0.0	11.1	44444444444444.4	1.1	22.2	11.1	0.0
1.0	485.0	0.0	11.1	61111111111111.1	1.1	22.2	11.1	0.0
1.0	490.0	0.0	11.1	83333333333333.3	1.1	22.2	11.1	0.0
1.0	495.0	0.0	11.1	115555555555555.5	1.1	22.2	11.1	0.0
1.0	500.0	0.0	11.1	161111111111111.1	1.1	22.2	11.1	0.0

RUN NUMBER

=72

SOURCE DIA. (CM) =15.00  
SOURCE SPECIFIC GRAVITY = 4.18  
SOURCE TIME DURATION (SEC) = STEADY  
SOURCE FLOW RATE (CCS) = 200.0  
VELOCITY (CM/S) AT 2.1 CM = 70.0

POSITION			MODEL			FIELD		
X	Y	Z	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
(CM)	(CM)	(CM)						
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	185.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	190.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	195.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RUN NUMBER =72  
 SOURCE DIA. (CM) =15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) =STEADY  
 SOURCE FLOW RATE (CCS) = 200.0  
 VELOCITY (CM/S) AT 2.1 CM = 70.0

X (CM)	POSITION		-----MODEL-----			-----FIELD-----		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
365.8	85.0	0.0	.9	.2	.3	2.4	.5	.8
365.8	90.0	0.0	.6	.1	.1	1.6	.3	.3
365.8	95.0	0.0	.4	0.0	0.0	1.1	0.0	0.0

RUN NUMBER = 72

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CC/S) = 192.0  
 VELOCITY (CM/S) AT 2.1 CM = 70.0

POSITION			MODEL			FIELD		
X	Y	Z	PEAK	MEAN	RMS	PEAK	MEAN	RMS
(CM)	(CM)	(CM)	CONC	CONC	CONC	CONC	CONC	CONC
61.9	0.0	0.0	11.3	9.3	9.9	25.6	21.7	1.0
61.9	0.0	1.0	8.3	1.7	1.3	19.7	4.5	2.3
61.9	0.0	2.0	4.1	0.2	0.4	10.4	0.5	1.1
61.9	0.0	3.0	2.0	0.0	0.2	5.2	0.0	0.5
61.9	0.0	4.0	1.0	0.0	0.1	2.6	0.0	0.3
61.9	0.0	5.0	0.5	0.0	0.0	1.3	0.0	0.0
61.9	0.0	6.0	0.4	0.0	0.0	1.1	0.0	0.0
61.9	0.0	7.0	0.3	0.0	0.0	0.8	0.0	0.0
121.9	0.0	0.0	6.5	5.1	5.5	14.9	12.7	1.1
121.9	0.0	1.0	3.5	0.3	1.0	14.0	8.4	2.4
121.9	0.0	2.0	3.5	0.5	0.6	8.9	1.3	1.6
121.9	0.0	3.0	2.3	0.0	0.2	5.0	0.0	0.5
121.9	0.0	4.0	1.1	0.0	0.1	2.6	0.0	0.4
121.9	0.0	5.0	1.0	0.0	0.0	2.7	0.0	0.0
121.9	0.0	6.0	1.0	0.0	0.0	2.7	0.0	0.0
121.9	0.0	7.0	1.3	0.0	0.0	3.4	0.0	0.0



RUN NUMBER

=73

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 126.0  
 VELOCITY (CM/S) AT 2.1 CM = 73.1

POSITION			MODEL			FIELD		
X (CM)	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
0.0	0.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	1.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	3.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	4.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	6.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	7.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	9.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	10.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	12.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	13.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	15.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
1.5	0.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
3.0	0.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
4.5	0.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
6.0	0.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
7.5	0.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
9.0	0.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
10.5	0.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
12.0	0.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
13.5	0.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
15.0	0.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	1.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	3.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	4.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	6.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	7.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	9.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	10.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	12.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	13.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	15.0	0.0	1.1	1.1	1.1	2.7	2.7	2.4
1.5	1.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
3.0	1.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
4.5	1.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
6.0	1.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
7.5	1.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
9.0	1.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
10.5	1.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
12.0	1.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
13.5	1.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
15.0	1.5	0.0	1.1	1.1	1.1	2.7	2.7	2.4
0.0	3.0	1.5	1.1	1.1	1.1	2.7	2.7	2.4
0.0	4.5	1.5	1.1	1.1	1.1	2.7	2.7	2.4
0.0	6.0	1.5	1.1	1.1	1.1	2.7	2.7	2.4
0.0	7.5	1.5	1.1	1.1	1.1	2.7	2.7	2.4
0.0	9.0	1.5	1.1	1.1	1.1	2.7	2.7	2.4
0.0	10.5	1.5	1.1	1.1	1.1	2.7	2.7	2.4
0.0	12.0	1.5	1.1	1.1	1.1	2.7	2.7	2.4
0.0	13.5	1.5	1.1	1.1	1.1	2.7	2.7	2.4
0.0	15.0	1.5	1.1	1.1	1.1	2.7	2.7	2.4

RUN NUMBER = 73  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 126.0  
 VELOCITY (CM/S) AT 2.1 CM = 73.1

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
243.8	55.0	0.0	1.3	.3	.3	3.4	.8	.8
243.8	60.0	0.0	.9	0.0	.1	2.4	0.0	.8
243.8	65.0	0.0	.6	0.0	0.0	1.6	0.0	.8
365.8	0.0	0.0	.8	.4	.1	2.1	1.1	.8
365.8	5.0	0.0	1.0	.5	.2	2.7	1.3	.8
365.8	10.0	0.0	.9	.5	.2	2.4	1.3	.8
365.8	15.0	0.0	1.0	.6	.2	2.7	1.6	.8
365.8	20.0	0.0	1.1	.6	.2	2.9	1.6	.8
365.8	25.0	0.0	1.2	.6	.2	3.2	1.6	.8
365.8	30.0	0.0	1.2	.6	.2	3.2	1.6	.8
365.8	35.0	0.0	1.2	.6	.3	3.2	1.6	.8

RUN NUMBER = 73  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 126.0  
 VELOCITY (CM/S) AT 2.1 CM = 73.1

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
81.9	0.0	0.0	9.8	8.2	.7	22.7	19.4	1.5
61.9	0.0	11.0	7.0	1.3	1.1	16.9	3.4	2.0
81.9	0.0	22.0	3.0	.4	.4	9.6	1.1	1.1
61.9	0.0	33.0	1.5	0.0	.2	5.2	0.0	0.5
81.9	0.0	44.0	0.0	0.0	0.0	4.0	0.0	0.0
61.9	0.0	55.0	1.2	0.0	0.0	2.2	0.0	0.0
81.9	0.0	66.0	0.0	0.0	0.0	2.1	0.0	0.0
121.9	0.0	77.0	5.3	4.4	.5	13.1	11.1	1.2
121.9	0.0	88.0	5.7	2.5	1.0	14.0	6.5	2.5
121.9	0.0	99.0	4.6	.7	.6	11.5	1.9	1.6
121.9	0.0	110.0	0.0	0.0	.1	5.2	0.0	0.0
121.9	0.0	121.0	1.1	0.0	0.0	3.9	0.0	0.0
121.9	0.0	132.0	0.0	0.0	0.0	2.4	0.0	0.0
121.9	0.0	143.0	0.0	0.0	0.0	0.4	0.0	0.0



RUN NUMBER

=74

SOURCE DIA. (CM) =15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 200.0  
 VELOCITY (CM/S) AT 2.1 CM = 86.5

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
243.0	40.0	0.0	2.0	.06	.5	5	1.6	1.1
243.0	45.0	0.0	1.1	.05	.4	4	.0	1.1
243.0	50.0	0.0	1.0	.0	.1	2	.0	.1
243.0	55.0	0.0	1.0	.0	.2	2	.0	.2
243.0	60.0	0.0	.9	.0	.2	2	.0	.2
243.0	65.0	0.0	1.1	.6	.2	4	1.1	.2
265.0	5.0	0.0	1.1	.4	.2	3	1.1	.2
265.0	10.0	0.0	1.1	.3	.2	3	1.1	.2
265.0	15.0	0.0	1.1	.4	.2	4	1.1	.2
265.0	20.0	0.0	1.1	.6	.2	4	1.1	.2
265.0	25.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	30.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	35.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	40.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	45.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	50.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	55.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	60.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	65.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	70.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	75.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	80.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	85.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	90.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	95.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	100.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	105.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	110.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	115.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	120.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	125.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	130.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	135.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	140.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	145.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	150.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	155.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	160.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	165.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	170.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	175.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	180.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	185.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	190.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	195.0	0.0	1.1	.5	.2	4	1.1	.2
265.0	200.0	0.0	1.1	.5	.2	4	1.1	.2

RUN NUMBER

=75

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.10  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 200.0  
 VELOCITY (CM/S) AT 2.1 CM = 96.5

	POSITION			MODEL			FIELD		
	X (CM)	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
	61.0	0.0	0.0	10.0	10.0	1.1	20.4	23.1	2.2
	61.0	0.0	1.0	9.0	2.5	1.0	21.7	6.5	4.0
	61.0	0.0	2.0	7.5	0.0	0.0	18.0	1.6	2.1
	61.0	0.0	3.0	6.0	0.0	0.4	15.0	0.0	1.1
	61.0	0.0	4.0	5.0	0.0	1.1	12.0	0.0	0.7
	61.0	0.0	5.0	4.0	0.0	0.0	10.0	0.0	0.0
	61.0	0.0	6.0	3.0	0.0	0.0	8.0	0.0	0.0
1	61.0	0.0	7.0	2.5	0.0	0.0	7.0	0.0	0.0
1	61.0	0.0	8.0	2.0	0.0	0.0	6.0	0.0	0.0
1	61.0	0.0	9.0	1.5	0.0	0.0	5.0	0.0	0.0
1	61.0	0.0	10.0	1.0	0.0	0.0	4.0	0.0	0.0
1	61.0	0.0	11.0	0.5	0.0	0.0	3.0	0.0	0.0
1	61.0	0.0	12.0	0.0	0.0	0.0	2.0	0.0	0.0
1	61.0	0.0	13.0	0.0	0.0	0.0	1.0	0.0	0.0
1	61.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0
1	61.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0

RUN NUMBER

=76

SOURCE DIA. (CM) =15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = STEADY  
 SOURCE FLOW RATE (CCS) = 200.0  
 VELOCITY (CM/S) AT 2.1 CM =100.0

POSITION			MODEL			FIELD		
X	Y	Z	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
(CM)	(CM)	(CM)						
0	0	0	1	1	1	1	1	1
0	5	0	1	1	1	1	1	1
0	10	0	1	1	1	1	1	1
0	15	0	1	1	1	1	1	1
0	20	0	1	1	1	1	1	1
0	25	0	1	1	1	1	1	1
0	30	0	1	1	1	1	1	1
0	35	0	1	1	1	1	1	1
0	40	0	1	1	1	1	1	1
0	45	0	1	1	1	1	1	1
0	50	0	1	1	1	1	1	1
0	55	0	1	1	1	1	1	1
0	60	0	1	1	1	1	1	1
0	65	0	1	1	1	1	1	1
0	70	0	1	1	1	1	1	1
0	75	0	1	1	1	1	1	1
0	80	0	1	1	1	1	1	1
0	85	0	1	1	1	1	1	1
0	90	0	1	1	1	1	1	1
0	95	0	1	1	1	1	1	1
0	100	0	1	1	1	1	1	1
5	0	0	1	1	1	1	1	1
10	0	0	1	1	1	1	1	1
15	0	0	1	1	1	1	1	1
20	0	0	1	1	1	1	1	1
25	0	0	1	1	1	1	1	1
30	0	0	1	1	1	1	1	1
35	0	0	1	1	1	1	1	1
40	0	0	1	1	1	1	1	1
45	0	0	1	1	1	1	1	1
50	0	0	1	1	1	1	1	1
55	0	0	1	1	1	1	1	1
60	0	0	1	1	1	1	1	1
65	0	0	1	1	1	1	1	1
70	0	0	1	1	1	1	1	1
75	0	0	1	1	1	1	1	1
80	0	0	1	1	1	1	1	1
85	0	0	1	1	1	1	1	1
90	0	0	1	1	1	1	1	1
95	0	0	1	1	1	1	1	1
100	0	0	1	1	1	1	1	1

RUN NUMBER =76  
 SOURCE DIA. (CM) =15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) =STEADY  
 SOURCE FLOW RATE (CCS) = 200.0  
 VELOCITY (CM/S) AT 2.1 CM =100.0

X (CM)	POSITION		MODEL			FIELD		
	Y (CM)	Z (CM)	PEAK CONC	MEAN CONC	RMS CONC	PEAK CONC	MEAN CONC	RMS CONC
243.8	60.0	0.0	.9	0.0	.1	2.4	0.0	.7
365.8	0.0	0.0	1.4	.7	.2	3.7	1.9	.5
365.8	5.0	0.0	1.3	.6	.2	3.4	1.6	.5
365.8	10.0	0.0	1.0	.5	.2	2.7	1.3	.5
365.8	15.0	0.0	1.0	.5	.2	2.7	1.3	.5
365.8	20.0	0.0	1.2	.5	.3	3.2	1.3	.5
365.8	25.0	0.0	1.2	.4	.3	3.2	1.1	.5
365.8	30.0	0.0	.9	.2	.2	2.4	.5	.5
365.8	35.0	0.0	.9	.2	.2	2.4	.5	.5



Table 4. Continuous Release Concentrations Tests Taken with Gas Chromotograph System

Run No.	Source Gas Specific Gravity $\rho_s/\rho_a$	Source Gas Flow Rate Q (ccs)	Wind Speed at 2.1 cm u (cm/sec)	$\bar{x}_t$							
				x=30.5 (cm)	x=45.7 (cm)	x=61 (cm)	x=91 (cm)	x=122 (cm)	x=244 (cm)	x=305 (cm)	x=366 (cm)
77	1.0	182	21		0.184	0.13	0.083	0.042	0.014	0.013	
78	1.0	182	31.5		0.128	0.093	0.052	0.026	0.01	0.007	
79	1.0	364	31.5		0.192	0.15	0.069	0.044	0.018	0.013	
80	1.0	546	31.5		0.169	0.149	0.09	0.063	0.025	0.019	
81	1.0	182	47.3		0.10	0.065	0.034	0.018	0.007	0.005	
82	1.0	364	47.3		0.163	0.108	0.06	0.034	0.014	0.011	
83	1.0	546	47.3		0.138	0.118	0.045	0.031	0.015	0.008	
84	1.0	182	63		0.071	0.053	0.033	0.016	0.006	0.005	
85	1.0	364	63		0.126	0.092	0.06	0.033	0.013	0.01	
86	1.0	546	63		0.16	0.125	0.075	0.045	0.018	0.01	
87	1.22	77	25.4	0.1128		-		0.0291	0.0107		0.0053
88	1.365	98	32.7	0.1333		0.0722		0.0330	0.0139		0.0066
89	1.5	115	38.3	0.1572		0.0928		0.0406	0.0174		0.0089

\*Source Diameter for all tests = 15 cm

\*Coordinate system referenced to source center

\*All tests were isothermal,  $T_a/T_s = 1$

\*All tests are continuous release plumes

Table 5. Transient Release Concentration Tests

Run No.	Source Gas Specific Gravity $\rho_s/\rho_a$	Gas Flow Rate Q (ccs)	Wind Speed at 2.1 cm H (cm/s)	Source Gas Time Duration $\Delta t$ (s)	$(x_{peak})_L$		
					x=30.5 (cm)	x=91.5 (cm)	x=183.0 (cm)
90-1	4.18	140	30	4	0.090	0.037	0.014
90-2	"	"	"	7	0.126	0.061	0.023
90-3	"	"	"	10	0.148	0.074	0.030
90-4	"	"	"	15	0.180	0.086	0.041
90-5	"	"	"	25	0.193	0.095	0.044
90-6	"	"	"	40	0.200	0.103	0.048
91-1	4.18	255	37	4	0.161	-	0.018
91-2	"	"	"	7	0.206	0.070	0.028
91-3	"	"	"	10	0.244	0.083	0.037
91-4	"	"	"	15	0.246	0.090	0.046
91-5	"	"	"	40	0.267	0.109	0.058
92-1	4.18	140	60	2	0.051	0.016	-
92-2	"	"	"	4	0.094	0.031	0.011
92-3	"	"	"	7	0.125	0.051	0.023
92-4	"	"	"	10	0.146	0.058	0.025
92-5	"	"	"	40	-	0.071	0.039
93-1	4.18	255	74	2	0.123	0.046	0.015
93-2	"	"	"	4	0.156	0.073	0.033
93-3	"	"	"	7	0.178	0.079	0.043
93-4	"	"	"	10	0.190	0.084	0.046
93-5	"	"	"	40	0.207	0.104	0.056
94-1	2.59	280	30	4	0.183	0.052	0.018
94-2	"	"	"	7	0.240	0.077	0.033
94-3	"	"	"	10	0.263	0.093	0.040
94-4	"	"	"	15	0.284	0.112	0.050
94-5	"	"	"	40	0.293	0.121	0.063
95-1	2.59	280	44	4	0.102	0.038	0.013
95-2	"	"	"	7	0.125	0.053	0.022
95-3	"	"	"	10	0.137	0.055	0.026
95-4	"	"	"	15	0.148	0.055	0.030
95-5	"	"	"	40	0.160	0.061	0.036
96-1	2.59	130	33.5	4	0.077	0.024	0.010
96-2	"	"	"	7	0.135	0.038	0.018
96-3	"	"	"	10	0.163	0.058	0.023
96-4	"	"	"	15	0.177	0.062	0.028
96-5	"	"	"	40	0.174	0.071	0.038
97-1	1.38	110	20	4	0.05	0.018	-
97-2	"	"	"	7	0.102	0.025	-
97-3	"	"	"	10	0.112	0.032	-
97-4	"	"	"	15	0.132	0.039	0.017
97-5	"	"	"	40	0.146	0.050	0.021
98-1	1.38	295	28	4	0.171	0.044	0.022
98-2	"	"	"	7	0.237	0.066	0.032
98-3	"	"	"	10	0.273	0.084	0.044
98-4	"	"	"	15	0.282	0.102	0.043
98-5	"	"	"	40	0.286	0.109	0.055
99-1	1.38	295	48	4	0.230	0.076	0.025
99-2	"	"	"	7	0.290	0.091	0.049
99-3	"	"	"	10	0.308	0.112	0.047
99-4	"	"	"	15	0.311	0.136	0.064
99-5	"	"	"	40	0.330	0.124	0.062
100-1	1.38	100	33.5	4	0.075	0.020	-
100-2	"	"	"	7	0.117	0.038	-
100-3	"	"	"	10	0.143	0.042	-
100-4	"	"	"	15	0.137	0.047	0.020
100-5	"	"	"	40	0.160	0.054	0.024
101-1	1.38	170	65	2	0.035	-	-
101-2	"	"	"	4	0.052	-	-
101-3	"	"	"	7	0.104	0.035	-
101-4	"	"	"	10	0.130	0.031	-
101-5	"	"	"	40	0.154	0.048	0.017

\*Source diameter for all tests = 15 cm

\*Coordinate system referenced to source center

\*All tests were isothermal,  $T_a/T_s = 1$

RUN NUMBER = 90-1

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = 4.0  
 SOURCE FLOW RATE (CCS) = 140.0  
 VELOCITY (CM/S) AT 2.1 CM = 30.0

X (CM)	POSITION		ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
	Y (CM)	Z (CM)						
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



RUN NUMBER = 90-2  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = 7.0  
 SOURCE FLOW RATE (CCS) = 140.0  
 VELOCITY (CM/S) AT 2.1 CM = 30.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
121.9	35.0	0.0	12.6	16.3	23.0	1.7	4.5	.26
121.9	40.0	0.0	15.3	16.6	21.7	1.3	3.4	.19
121.9	45.0	0.0	16.0	16.6	20.6	1.1	2.9	.15
121.9	50.0	0.0	16.5	18.7	19.6	1.1	2.9	.13
121.9	55.0	0.0	0.0	19.7	0.0	.9	2.4	.10
121.9	60.0	0.0	0.0	19.8	0.0	.8	2.1	.07
121.9	65.0	0.0	17.5	19.2	19.9	1.1	2.9	.13
121.9	70.0	0.0	0.0	20.3	0.0	.7	1.9	.06

RUN NUMBER = 90-3

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.18  
 SOURCE TIME DURATION (SEC) = 10.0  
 SOURCE FLOW RATE (CCS) = 140.0  
 VELOCITY (CM/S) AT 2.1 CM = 60.0

X (CM)	POSITION		ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	SOURCE (X-SEC)
	Y (CM)	Z (CM)						
1	0	0	10	10	55	1	3	2
1	1	0	10	10	55	1	3	1
1	2	0	10	10	55	1	3	1
1	3	0	10	10	55	1	3	1
1	4	0	10	10	55	1	3	1
1	5	0	10	10	55	1	3	1
1	6	0	10	10	55	1	3	1
1	7	0	10	10	55	1	3	1
1	8	0	10	10	55	1	3	1
1	9	0	10	10	55	1	3	1
1	10	0	10	10	55	1	3	1
1	11	0	10	10	55	1	3	1
1	12	0	10	10	55	1	3	1
1	13	0	10	10	55	1	3	1
1	14	0	10	10	55	1	3	1
1	15	0	10	10	55	1	3	1
1	16	0	10	10	55	1	3	1
1	17	0	10	10	55	1	3	1
1	18	0	10	10	55	1	3	1
1	19	0	10	10	55	1	3	1
1	20	0	10	10	55	1	3	1
1	21	0	10	10	55	1	3	1
1	22	0	10	10	55	1	3	1
1	23	0	10	10	55	1	3	1
1	24	0	10	10	55	1	3	1
1	25	0	10	10	55	1	3	1
1	26	0	10	10	55	1	3	1
1	27	0	10	10	55	1	3	1
1	28	0	10	10	55	1	3	1
1	29	0	10	10	55	1	3	1
1	30	0	10	10	55	1	3	1
1	31	0	10	10	55	1	3	1
1	32	0	10	10	55	1	3	1
1	33	0	10	10	55	1	3	1
1	34	0	10	10	55	1	3	1
1	35	0	10	10	55	1	3	1
1	36	0	10	10	55	1	3	1
1	37	0	10	10	55	1	3	1
1	38	0	10	10	55	1	3	1
1	39	0	10	10	55	1	3	1
1	40	0	10	10	55	1	3	1
1	41	0	10	10	55	1	3	1
1	42	0	10	10	55	1	3	1
1	43	0	10	10	55	1	3	1
1	44	0	10	10	55	1	3	1
1	45	0	10	10	55	1	3	1
1	46	0	10	10	55	1	3	1
1	47	0	10	10	55	1	3	1
1	48	0	10	10	55	1	3	1
1	49	0	10	10	55	1	3	1
1	50	0	10	10	55	1	3	1
1	51	0	10	10	55	1	3	1
1	52	0	10	10	55	1	3	1
1	53	0	10	10	55	1	3	1
1	54	0	10	10	55	1	3	1
1	55	0	10	10	55	1	3	1
1	56	0	10	10	55	1	3	1
1	57	0	10	10	55	1	3	1
1	58	0	10	10	55	1	3	1
1	59	0	10	10	55	1	3	1
1	60	0	10	10	55	1	3	1
1	61	0	10	10	55	1	3	1
1	62	0	10	10	55	1	3	1
1	63	0	10	10	55	1	3	1
1	64	0	10	10	55	1	3	1
1	65	0	10	10	55	1	3	1
1	66	0	10	10	55	1	3	1
1	67	0	10	10	55	1	3	1
1	68	0	10	10	55	1	3	1
1	69	0	10	10	55	1	3	1
1	70	0	10	10	55	1	3	1
1	71	0	10	10	55	1	3	1
1	72	0	10	10	55	1	3	1
1	73	0	10	10	55	1	3	1
1	74	0	10	10	55	1	3	1
1	75	0	10	10	55	1	3	1
1	76	0	10	10	55	1	3	1
1	77	0	10	10	55	1	3	1
1	78	0	10	10	55	1	3	1
1	79	0	10	10	55	1	3	1
1	80	0	10	10	55	1	3	1
1	81	0	10	10	55	1	3	1
1	82	0	10	10	55	1	3	1
1	83	0	10	10	55	1	3	1
1	84	0	10	10	55	1	3	1
1	85	0	10	10	55	1	3	1
1	86	0	10	10	55	1	3	1
1	87	0	10	10	55	1	3	1
1	88	0	10	10	55	1	3	1
1	89	0	10	10	55	1	3	1
1	90	0	10	10	55	1	3	1

RUN NUMBER = 90-2  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = 10.0  
 SOURCE FLOW RATE (CCS) = 140.0  
 VELOCITY (CM/S) AT 2.1 CM = 20.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSE (X-SEC)
1	0	0	11.0	11.0	11.0	0		
1	1	0	11.0	11.0	11.0	0		
1	2	0	11.0	11.0	11.0	0		
1	3	0	11.0	11.0	11.0	0		
1	4	0	11.0	11.0	11.0	0		
1	5	0	11.0	11.0	11.0	0		
1	6	0	11.0	11.0	11.0	0		
1	7	0	11.0	11.0	11.0	0		
1	8	0	11.0	11.0	11.0	0		
1	9	0	11.0	11.0	11.0	0		
1	10	0	11.0	11.0	11.0	0		
1	11	0	11.0	11.0	11.0	0		
1	12	0	11.0	11.0	11.0	0		
1	13	0	11.0	11.0	11.0	0		
1	14	0	11.0	11.0	11.0	0		
1	15	0	11.0	11.0	11.0	0		
1	16	0	11.0	11.0	11.0	0		
1	17	0	11.0	11.0	11.0	0		
1	18	0	11.0	11.0	11.0	0		
1	19	0	11.0	11.0	11.0	0		
1	20	0	11.0	11.0	11.0	0		
1	21	0	11.0	11.0	11.0	0		
1	22	0	11.0	11.0	11.0	0		
1	23	0	11.0	11.0	11.0	0		
1	24	0	11.0	11.0	11.0	0		
1	25	0	11.0	11.0	11.0	0		
1	26	0	11.0	11.0	11.0	0		
1	27	0	11.0	11.0	11.0	0		
1	28	0	11.0	11.0	11.0	0		
1	29	0	11.0	11.0	11.0	0		
1	30	0	11.0	11.0	11.0	0		
1	31	0	11.0	11.0	11.0	0		
1	32	0	11.0	11.0	11.0	0		
1	33	0	11.0	11.0	11.0	0		
1	34	0	11.0	11.0	11.0	0		
1	35	0	11.0	11.0	11.0	0		
1	36	0	11.0	11.0	11.0	0		
1	37	0	11.0	11.0	11.0	0		
1	38	0	11.0	11.0	11.0	0		
1	39	0	11.0	11.0	11.0	0		
1	40	0	11.0	11.0	11.0	0		
1	41	0	11.0	11.0	11.0	0		
1	42	0	11.0	11.0	11.0	0		
1	43	0	11.0	11.0	11.0	0		
1	44	0	11.0	11.0	11.0	0		
1	45	0	11.0	11.0	11.0	0		
1	46	0	11.0	11.0	11.0	0		
1	47	0	11.0	11.0	11.0	0		
1	48	0	11.0	11.0	11.0	0		
1	49	0	11.0	11.0	11.0	0		
1	50	0	11.0	11.0	11.0	0		





RUN NUMBER = 90-4

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.10  
 SOURCE TIME DURATION (SEC) = 15.0  
 SOURCE FLOW RATE (G/G) = 140.0  
 VELOCITY (CM/RS) AT 2.1 CM = 30.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC FIELD	DOSAGE (X-SEC)
121.1	5.0	0.0	110.0	110.0	110.0	1	0.0	0.0
121.1	10.0	0.0	110.0	110.0	110.0	1	0.0	0.0
121.1	15.0	0.0	111.0	111.0	111.0	1	0.0	0.0
121.1	20.0	0.0	111.0	111.0	111.0	1	0.0	0.0
121.1	25.0	0.0	112.0	112.0	112.0	1	0.0	0.0
121.1	30.0	0.0	110.0	110.0	110.0	1	0.0	0.0
121.1	35.0	0.0	112.0	112.0	112.0	1	0.0	0.0
121.1	40.0	0.0	112.0	112.0	112.0	1	0.0	0.0
121.1	45.0	0.0	113.0	113.0	113.0	1	0.0	0.0
121.1	50.0	0.0	113.0	113.0	113.0	1	0.0	0.0
121.1	55.0	0.0	115.0	115.0	115.0	1	0.0	0.0
121.1	60.0	0.0	116.0	116.0	116.0	1	0.0	0.0
121.1	65.0	0.0	114.0	114.0	114.0	1	0.0	0.0
121.1	70.0	0.0	117.0	117.0	117.0	1	0.0	0.0
121.1	75.0	0.0	117.0	117.0	117.0	1	0.0	0.0
121.1	80.0	0.0	118.0	118.0	118.0	1	0.0	0.0
121.1	85.0	0.0	118.0	118.0	118.0	1	0.0	0.0
121.1	90.0	0.0	119.0	119.0	119.0	1	0.0	0.0
121.1	95.0	0.0	119.0	119.0	119.0	1	0.0	0.0
121.1	100.0	0.0	119.0	119.0	119.0	1	0.0	0.0
121.1	105.0	0.0	120.0	120.0	120.0	1	0.0	0.0
121.1	110.0	0.0	120.0	120.0	120.0	1	0.0	0.0
121.1	115.0	0.0	120.0	120.0	120.0	1	0.0	0.0
121.1	120.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	125.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	130.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	135.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	140.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	145.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	150.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	155.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	160.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	165.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	170.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	175.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	180.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	185.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	190.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	195.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	200.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	205.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	210.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	215.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	220.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	225.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	230.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	235.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	240.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	245.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	250.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	255.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	260.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	265.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	270.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	275.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	280.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	285.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	290.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	295.0	0.0	121.0	121.0	121.0	1	0.0	0.0
121.1	300.0	0.0	121.0	121.0	121.0	1	0.0	0.0

RUN NUMBER = 90-5  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = 25.0  
 SOURCE FLOW RATE (CCS) = 140.0  
 VELOCITY (CM/S) AT 2.1 CM = 30.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	EXIT TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	1.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	2.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	3.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	4.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	5.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	6.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	7.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	8.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	9.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	10.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	11.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	12.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	13.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	14.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	15.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	16.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	17.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	18.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	19.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	20.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	21.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	22.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	23.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	24.0	0.0	0.0	0.0	0.0	1	0.0	0.0
0.0	25.0	0.0	0.0	0.0	0.0	1	0.0	0.0





RUN NUMBER

= 90-6

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = 40.0  
 SOURCE FLOW RATE (CCS) = 140.0  
 VELOCITY (CM/SEC) AT 2.1 CM = 38.0

POSITION			ARRIVAL	PKT	END	PEAK	CONC.	DOSEAGE
X	Y	Z	TIME	TIME	TIME	MODEL	FIELD	(X-SEC)
(CM)	(CM)	(CM)	(SEC)	(SEC)	(SEC)			
61.9	95.0	0.0	0000	42	49	11	4	0000
61.95	95.0	0.0	0000	42	49	2	4	0000
61.99	100.0	0.0	0000	42	49	4	4	0000
61.995	105.0	0.0	0000	42	49	4	4	0000
61.999	110.0	0.0	0000	42	49	4	4	0000
61.9995	115.0	0.0	0000	42	49	4	4	0000
61.9999	120.0	0.0	0000	42	49	4	4	0000
61.99995	125.0	0.0	0000	42	49	4	4	0000
61.99999	130.0	0.0	0000	42	49	4	4	0000
61.999995	135.0	0.0	0000	42	49	4	4	0000
61.999999	140.0	0.0	0000	42	49	4	4	0000
61.9999995	145.0	0.0	0000	42	49	4	4	0000
61.9999999	150.0	0.0	0000	42	49	4	4	0000
61.99999995	155.0	0.0	0000	42	49	4	4	0000
61.99999999	160.0	0.0	0000	42	49	4	4	0000
61.999999995	165.0	0.0	0000	42	49	4	4	0000
61.999999999	170.0	0.0	0000	42	49	4	4	0000
61.9999999995	175.0	0.0	0000	42	49	4	4	0000
61.9999999999	180.0	0.0	0000	42	49	4	4	0000
61.99999999995	185.0	0.0	0000	42	49	4	4	0000
61.99999999999	190.0	0.0	0000	42	49	4	4	0000
61.999999999995	195.0	0.0	0000	42	49	4	4	0000
61.999999999999	200.0	0.0	0000	42	49	4	4	0000
61.9999999999995	205.0	0.0	0000	42	49	4	4	0000
61.9999999999999	210.0	0.0	0000	42	49	4	4	0000
61.99999999999995	215.0	0.0	0000	42	49	4	4	0000
61.99999999999999	220.0	0.0	0000	42	49	4	4	0000
61.999999999999995	225.0	0.0	0000	42	49	4	4	0000
61.999999999999999	230.0	0.0	0000	42	49	4	4	0000
61.9999999999999995	235.0	0.0	0000	42	49	4	4	0000
61.9999999999999999	240.0	0.0	0000	42	49	4	4	0000
61.99999999999999995	245.0	0.0	0000	42	49	4	4	0000
61.99999999999999999	250.0	0.0	0000	42	49	4	4	0000
61.999999999999999995	255.0	0.0	0000	42	49	4	4	0000
61.999999999999999999	260.0	0.0	0000	42	49	4	4	0000
61.9999999999999999995	265.0	0.0	0000	42	49	4	4	0000
61.9999999999999999999	270.0	0.0	0000	42	49	4	4	0000
61.99999999999999999995	275.0	0.0	0000	42	49	4	4	0000
61.99999999999999999999	280.0	0.0	0000	42	49	4	4	0000
61.999999999999999999995	285.0	0.0	0000	42	49	4	4	0000
61.999999999999999999999	290.0	0.0	0000	42	49	4	4	0000
61.9999999999999999999995	295.0	0.0	0000	42	49	4	4	0000
61.9999999999999999999999	300.0	0.0	0000	42	49	4	4	0000
61.99999999999999999999995	305.0	0.0	0000	42	49	4	4	0000
61.99999999999999999999999	310.0	0.0	0000	42	49	4	4	0000
61.999999999999999999999995	315.0	0.0	0000	42	49	4	4	0000
61.999999999999999999999999	320.0	0.0	0000	42	49	4	4	0000
61.9999999999999999999999995	325.0	0.0	0000	42	49	4	4	0000
61.9999999999999999999999999	330.0	0.0	0000	42	49	4	4	0000
61.99999999999999999999999995	335.0	0.0	0000	42	49	4	4	0000
61.99999999999999999999999999	340.0	0.0	0000	42	49	4	4	0000
61.999999999999999999999999995	345.0	0.0	0000	42	49	4	4	0000
61.999999999999999999999999999	350.0	0.0	0000	42	49	4	4	0000
61.9999999999999999999999999995	355.0	0.0	0000	42	49	4	4	0000
61.9999999999999999999999999999	360.0	0.0	0000	42	49	4	4	0000
61.99999999999999999999999999995	365.0	0.0	0000	42	49	4	4	0000
61.99999999999999999999999999999	370.0	0.0	0000	42	49	4	4	0000
61.999999999999999999999999999995	375.0	0.0	0000	42	49	4	4	0000
61.999999999999999999999999999999	380.0	0.0	0000	42	49	4	4	0000
61.9999999999999999999999999999995	385.0	0.0	0000	42	49	4	4	0000
61.9999999999999999999999999999999	390.0	0.0	0000	42	49	4	4	0000
61.99999999999999999999999999999995	395.0	0.0	0000	42	49	4	4	0000
61.99999999999999999999999999999999	400.0	0.0	0000	42	49	4	4	0000
61.999999999999999999999999999999995	405.0	0.0	0000	42	49	4	4	0000

RUN NUMBER

= 91-1

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.10  
 SOURCE TIME OF RISE (SEC) = 4.10  
 SOURCE FLOW RATE (CC/SEC) = 250.0  
 VELOCITY (CM/SEC) AT 2.1 CM = 27.0

X (CM)	POSITION		ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC FIELD	DOSAGE (X-SEC)
	Y (CM)	Z (CM)						
00	00	00	11.0	11.0	11.0	11	00	11.0
00	00	00	11.1	11.1	11.1	11	00	11.1
00	00	00	11.2	11.2	11.2	11	00	11.2
00	00	00	11.3	11.3	11.3	11	00	11.3
00	00	00	11.4	11.4	11.4	11	00	11.4
00	00	00	11.5	11.5	11.5	11	00	11.5
00	00	00	11.6	11.6	11.6	11	00	11.6
00	00	00	11.7	11.7	11.7	11	00	11.7
00	00	00	11.8	11.8	11.8	11	00	11.8
00	00	00	11.9	11.9	11.9	11	00	11.9
00	00	00	12.0	12.0	12.0	11	00	12.0
00	00	00	12.1	12.1	12.1	11	00	12.1
00	00	00	12.2	12.2	12.2	11	00	12.2
00	00	00	12.3	12.3	12.3	11	00	12.3
00	00	00	12.4	12.4	12.4	11	00	12.4
00	00	00	12.5	12.5	12.5	11	00	12.5
00	00	00	12.6	12.6	12.6	11	00	12.6
00	00	00	12.7	12.7	12.7	11	00	12.7
00	00	00	12.8	12.8	12.8	11	00	12.8
00	00	00	12.9	12.9	12.9	11	00	12.9
00	00	00	13.0	13.0	13.0	11	00	13.0
00	00	00	13.1	13.1	13.1	11	00	13.1
00	00	00	13.2	13.2	13.2	11	00	13.2
00	00	00	13.3	13.3	13.3	11	00	13.3
00	00	00	13.4	13.4	13.4	11	00	13.4
00	00	00	13.5	13.5	13.5	11	00	13.5
00	00	00	13.6	13.6	13.6	11	00	13.6
00	00	00	13.7	13.7	13.7	11	00	13.7
00	00	00	13.8	13.8	13.8	11	00	13.8
00	00	00	13.9	13.9	13.9	11	00	13.9
00	00	00	14.0	14.0	14.0	11	00	14.0
00	00	00	14.1	14.1	14.1	11	00	14.1
00	00	00	14.2	14.2	14.2	11	00	14.2
00	00	00	14.3	14.3	14.3	11	00	14.3
00	00	00	14.4	14.4	14.4	11	00	14.4
00	00	00	14.5	14.5	14.5	11	00	14.5
00	00	00	14.6	14.6	14.6	11	00	14.6
00	00	00	14.7	14.7	14.7	11	00	14.7
00	00	00	14.8	14.8	14.8	11	00	14.8
00	00	00	14.9	14.9	14.9	11	00	14.9
00	00	00	15.0	15.0	15.0	11	00	15.0
00	00	00	15.1	15.1	15.1	11	00	15.1
00	00	00	15.2	15.2	15.2	11	00	15.2
00	00	00	15.3	15.3	15.3	11	00	15.3
00	00	00	15.4	15.4	15.4	11	00	15.4
00	00	00	15.5	15.5	15.5	11	00	15.5
00	00	00	15.6	15.6	15.6	11	00	15.6
00	00	00	15.7	15.7	15.7	11	00	15.7
00	00	00	15.8	15.8	15.8	11	00	15.8
00	00	00	15.9	15.9	15.9	11	00	15.9
00	00	00	16.0	16.0	16.0	11	00	16.0
00	00	00	16.1	16.1	16.1	11	00	16.1
00	00	00	16.2	16.2	16.2	11	00	16.2
00	00	00	16.3	16.3	16.3	11	00	16.3
00	00	00	16.4	16.4	16.4	11	00	16.4
00	00	00	16.5	16.5	16.5	11	00	16.5
00	00	00	16.6	16.6	16.6	11	00	16.6
00	00	00	16.7	16.7	16.7	11	00	16.7
00	00	00	16.8	16.8	16.8	11	00	16.8
00	00	00	16.9	16.9	16.9	11	00	16.9
00	00	00	17.0	17.0	17.0	11	00	17.0
00	00	00	17.1	17.1	17.1	11	00	17.1
00	00	00	17.2	17.2	17.2	11	00	17.2
00	00	00	17.3	17.3	17.3	11	00	17.3
00	00	00	17.4	17.4	17.4	11	00	17.4
00	00	00	17.5	17.5	17.5	11	00	17.5
00	00	00	17.6	17.6	17.6	11	00	17.6
00	00	00	17.7	17.7	17.7	11	00	17.7
00	00	00	17.8	17.8	17.8	11	00	17.8
00	00	00	17.9	17.9	17.9	11	00	17.9
00	00	00	18.0	18.0	18.0	11	00	18.0
00	00	00	18.1	18.1	18.1	11	00	18.1
00	00	00	18.2	18.2	18.2	11	00	18.2
00	00	00	18.3	18.3	18.3	11	00	18.3
00	00	00	18.4	18.4	18.4	11	00	18.4
00	00	00	18.5	18.5	18.5	11	00	18.5
00	00	00	18.6	18.6	18.6	11	00	18.6
00	00	00	18.7	18.7	18.7	11	00	18.7
00	00	00	18.8	18.8	18.8	11	00	18.8
00	00	00	18.9	18.9	18.9	11	00	18.9
00	00	00	19.0	19.0	19.0	11	00	19.0



RUN NUMBER = 91-2

SOURCE DIA. (CM) = 15.00  
SOURCE SPECIFIC GRAVITY = 4.18  
SOURCE TIME DURATION (SEC) = 27.0  
SOURCE FLOW RATE (CCS) = 260.0  
VELOCITY (CM/8) AT 2.1 CM = 37.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
102.9	50.0	0.0	13.9	17.9	24.9	1.9	5.0	.22
102.9	55.0	0.0	13.6	17.6	26.7	1.9	5.0	.23
102.9	60.0	0.0	14.5	17.6	25.5	1.9	5.0	.22
102.9	65.0	0.0	15.0	17.7	23.2	1.4	3.7	.17
102.9	70.0	0.0	18.2	17.6	23.0	1.4	3.7	.15





RUN NUMBER = 91-3  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = 10.0  
 SOURCE FLOW RATE (CCS) = 260.0  
 VELOCITY (CM/S) AT 2.1 CM = 37.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC FIELD	DOSEAGE (X-SEC)
102.9	30.0	0.0	11.4	18.0	33.1	3.0	7.7	.60
102.9	35.0	0.0	11.1	18.1	34.3	3.3	8.4	.67
102.9	40.0	0.0	12.0	19.0	35.1	3.1	8.0	.50
102.9	45.0	0.0	12.8	19.8	36.3	3.3	7.7	.44
102.9	50.0	0.0	13.1	20.2	37.4	3.4	8.0	.40
102.9	55.0	0.0	13.8	20.8	38.1	3.1	8.0	.39
102.9	60.0	0.0	14.2	21.2	39.1	3.1	8.0	.39
102.9	65.0	0.0	15.5	22.1	40.9	3.9	8.0	.30
102.9	70.0	0.0	15.7	22.3	41.9	3.9	8.0	.30
102.9	75.0	0.0	21.0	21.0	44.0	4.0	11.2	.15
102.9	80.0	0.0	0.0	21.0	0.0	1.0	2.4	.09
102.9	85.0	0.0	0.0	21.4	0.0	0.0	2.1	.08
102.9	90.0	0.0	0.0	22.1	0.0	0.7	1.9	.06



RUN NUMBER = 91-4  
SOURCE DIA. (CM) = 15.00  
SOURCE SPECIFIC GRAVITY = 4.18  
SOURCE TIME DURATION (SEC) = 15.0  
SOURCE FLOW RATE (CCS) = 260.0  
VELOCITY (CM/S) AT 2.1 CM = 37.0

POSITION			ARRIVAL	PER	PER	PEAK	CONC.	DOSAGE
X	Y	Z	TIME	TIME	TIME	MODEL	FIELD	(X-SEC)
(CM)	(CM)	(CM)	(SEC)	(SEC)	(SEC)			
10000	0000	0000	100	000	000	4	11	51
10000	0000	0000	110	000	000	4	11	59
10000	0000	0000	120	000	000	4	10	54
10000	0000	0000	130	000	000	4	9	51
10000	0000	0000	140	000	000	4	8	57
10000	0000	0000	150	000	000	4	7	60
10000	0000	0000	160	000	000	4	6	68
10000	0000	0000	170	000	000	4	5	75
10000	0000	0000	180	000	000	4	4	81
10000	0000	0000	190	000	000	4	3	86
10000	0000	0000	200	000	000	4	2	89
10000	0000	0000	210	000	000	4	1	91
10000	0000	0000	220	000	000	4	0	92
10000	0000	0000	230	000	000	4	0	93
10000	0000	0000	240	000	000	4	0	94
10000	0000	0000	250	000	000	4	0	95
10000	0000	0000	260	000	000	4	0	96
10000	0000	0000	270	000	000	4	0	97
10000	0000	0000	280	000	000	4	0	98
10000	0000	0000	290	000	000	4	0	99
10000	0000	0000	300	000	000	4	0	100

```

RUN NUMBER = 91-5
SOURCE DIA. (CM) = 15.00
SOURCE SPECIFIC GRAVITY = 4.18
SOURCE TIME DURATION (SEC) = 40.0
SOURCE FLOW RATE (CCS) = 260.0
VELOCITY (CM/S) AT 2.1 CM = 37.0

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X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	TRIP TIME (SEC)	TIME (SEC)	PERK MODEL	COND. FIELD	LOGS (X-SECT)
10								
20								
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								
160								
170								
180								
190								
200								
210								
220								
230								
240								
250								
260								
270								
280								
290								
300								
310								
320								
330								
340								
350								
360								
370								
380								
390								
400								
410								
420								
430								
440								
450								
460								
470								
480								
490								
500								
510								
520								
530								
540								
550								
560								
570								
580								
590								
600								
610								
620								
630								
640								
650								
660								
670								
680								
690								
700								
710								
720								
730								
740								
750								
760								
770								
780								
790								
800								
810								
820								
830								
840								
850								
860								
870								
880								
890								
900								
910								
920								
930								
940								
950								
960								
970								
980								
990								
1000								

RUN NUMBER

= 91-0

```

SOURCE 1 15.00
SOURCE 2 4.18
SOURCE 3 40.00
SOURCE 4 60.00
SOURCE 5 7.00
POSITION 2.1 CM
  
```

POSITION (CM)	ARRIVAL TIME (SEC)	TRIP TIME (SEC)	END TIME (SEC)	PIPER MODEL	CONC. FIELD	DOSE (X-SEC)
15.00	11.00	33.00	62.00	44444	14	.....
14.80	11.00	33.00	62.00	44444	13	.....
14.60	11.00	33.00	62.00	44444	12	.....
14.40	11.00	33.00	62.00	44444	11	.....
14.20	11.00	33.00	62.00	44444	10	.....
14.00	11.00	33.00	62.00	44444	9	.....
13.80	11.00	33.00	62.00	44444	8	.....
13.60	11.00	33.00	62.00	44444	7	.....
13.40	11.00	33.00	62.00	44444	6	.....
13.20	11.00	33.00	62.00	44444	5	.....
13.00	11.00	33.00	62.00	44444	4	.....
12.80	11.00	33.00	62.00	44444	3	.....
12.60	11.00	33.00	62.00	44444	2	.....
12.40	11.00	33.00	62.00	44444	1	.....
12.20	11.00	33.00	62.00	44444		.....
12.00	11.00	33.00	62.00	44444		.....
11.80	11.00	33.00	62.00	44444		.....
11.60	11.00	33.00	62.00	44444		.....
11.40	11.00	33.00	62.00	44444		.....
11.20	11.00	33.00	62.00	44444		.....
11.00	11.00	33.00	62.00	44444		.....
10.80	11.00	33.00	62.00	44444		.....
10.60	11.00	33.00	62.00	44444		.....
10.40	11.00	33.00	62.00	44444		.....
10.20	11.00	33.00	62.00	44444		.....
10.00	11.00	33.00	62.00	44444		.....
9.80	11.00	33.00	62.00	44444		.....
9.60	11.00	33.00	62.00	44444		.....
9.40	11.00	33.00	62.00	44444		.....
9.20	11.00	33.00	62.00	44444		.....
9.00	11.00	33.00	62.00	44444		.....
8.80	11.00	33.00	62.00	44444		.....
8.60	11.00	33.00	62.00	44444		.....
8.40	11.00	33.00	62.00	44444		.....
8.20	11.00	33.00	62.00	44444		.....
8.00	11.00	33.00	62.00	44444		.....
7.80	11.00	33.00	62.00	44444		.....
7.60	11.00	33.00	62.00	44444		.....
7.40	11.00	33.00	62.00	44444		.....
7.20	11.00	33.00	62.00	44444		.....
7.00	11.00	33.00	62.00	44444		.....
6.80	11.00	33.00	62.00	44444		.....
6.60	11.00	33.00	62.00	44444		.....
6.40	11.00	33.00	62.00	44444		.....
6.20	11.00	33.00	62.00	44444		.....
6.00	11.00	33.00	62.00	44444		.....
5.80	11.00	33.00	62.00	44444		.....
5.60	11.00	33.00	62.00	44444		.....
5.40	11.00	33.00	62.00	44444		.....
5.20	11.00	33.00	62.00	44444		.....
5.00	11.00	33.00	62.00	44444		.....
4.80	11.00	33.00	62.00	44444		.....
4.60	11.00	33.00	62.00	44444		.....
4.40	11.00	33.00	62.00	44444		.....
4.20	11.00	33.00	62.00	44444		.....
4.00	11.00	33.00	62.00	44444		.....
3.80	11.00	33.00	62.00	44444		.....
3.60	11.00	33.00	62.00	44444		.....
3.40	11.00	33.00	62.00	44444		.....
3.20	11.00	33.00	62.00	44444		.....
3.00	11.00	33.00	62.00	44444		.....
2.80	11.00	33.00	62.00	44444		.....
2.60	11.00	33.00	62.00	44444		.....
2.40	11.00	33.00	62.00	44444		.....
2.20	11.00	33.00	62.00	44444		.....
2.00	11.00	33.00	62.00	44444		.....
1.80	11.00	33.00	62.00	44444		.....
1.60	11.00	33.00	62.00	44444		.....
1.40	11.00	33.00	62.00	44444		.....
1.20	11.00	33.00	62.00	44444		.....
1.00	11.00	33.00	62.00	44444		.....

RUN NUMBER = 92-1  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = 2.0  
 SOURCE FLOW RATE (CCS) = 140.0  
 VELOCITY (CM/S) AT 2.1 CM = 60.0

X (CM)	POSITION			ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSAGE (X-SEC)
	Y (CM)	Z (CM)							
30.5	0.0	0.0		1.3	3.8	19.2	4.4	11.1	.41
30.5	5.0	0.0		1.8	4.3	16.7	5.1	12.7	.40
30.5	10.0	0.0		2.4	4.5	7.1	3.2	8.2	.18
30.5	15.0	0.0		3.8	3.8		1.5	4.5	.05
30.5	20.0	0.0		5.0	4.4	0.0	3.3	4.8	.02
91.4	0.0	0.0		5.4	6.9	8.8	4.8	4.2	.13
91.4	5.0	0.0		5.6	6.1	8.0	1.5	4.0	.12
91.4	10.0	0.0		6.1	6.4	6.0	1.1	4.0	.06
91.4	15.0	0.0		6.0	6.1	0.0	1.0	2.7	.03
91.4	20.0	0.0		6.0	5.6	0.0	.8	2.1	.03

RUN NUMBER = 92-2

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.10  
 SOURCE TIME DURATION (SEC) = 4.0  
 SOURCE FLOW RATE (CCS) = 140.0  
 VELOCITY (CM/S) AT 2.1 CM = 60.0

X (CM)	POSITION			ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC.		DOSAGE (X-SEC)
	Y (CM)	Z (CM)	FIELD					FIELD		
300	50	00		11	55	31.9	01	10	00	7.2
300	50	00		11	55	29.0	04	21	00	0.1
300	100	00		11	55	22.0	00	17	00	3.7
300	150	00		11	55	22.0	00	14	00	1.3
300	200	00		11	55	22.0	00	12	00	0.8
300	250	00		11	55	22.0	00	9	00	0.3
300	300	00		11	55	22.0	00	1	00	0.1
911	50	00		11	55	11.0	00	7	00	2.5
911	50	00		11	55	11.0	00	7	00	2.6
911	100	00		11	55	10.0	00	7	00	1.7
911	150	00		11	55	10.0	00	5	00	0.9
911	200	00		11	55	9.0	00	5	00	0.7
911	250	00		11	55	8.0	00	4	00	0.4
911	300	00		11	55	8.0	00	4	00	0.2
1000	50	00		11	55	9.0	00	9	00	0.7
1000	50	00		11	55	9.0	00	9	00	0.7
1000	100	00		11	55	10.0	00	3	00	0.5
1000	150	00		11	55	10.0	00	2	00	0.4
1000	200	00		11	55	10.0	00	2	00	0.4



RUN NUMBER = 92-3

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = 7.0  
 SOURCE FLOW RATE (CCS) = 140.0  
 VELOCITY (CM/S) AT 2.1 CM = 60.0

X (CM)	POSITION		ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODE	COND. FIELD	DOSEAGE (X-SEC)
	Y (CM)	Z (CM)						
0.0	0.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	10.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	20.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	30.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	40.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	50.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	60.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	70.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	80.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	90.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	100.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	110.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	120.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	130.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	140.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	150.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	160.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	170.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	180.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	190.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	200.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	210.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	220.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	230.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	240.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	250.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	260.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	270.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	280.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	290.0	0.0	1.1	7.0	7.4	11	0.0	1.0
0.0	300.0	0.0	1.1	7.0	7.4	11	0.0	1.0

RUN NUMBER

= 92-4

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = 10.0  
 SOURCE FLOW RATE (CCS) = 140.0  
 VELOCITY (CM/S) AT 2.1 CM = 50.0

X (CM)	POSITION			ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSAGE (X-SEC)
	Y (CM)	Z (CM)							
300000000000000000	0.00	0.00		11.4	9.6	46.9	11.6	0.0	11.2
300000000000000000	0.00	0.00		11.1	9.1	38.4	14.6	0.0	11.6
300000000000000000	10.00	0.00		11.9	10.1	19.6	13.8	0.0	11.4
300000000000000000	15.00	0.00		20.0	11.0	19.1	12.7	0.0	7.8
300000000000000000	20.00	0.00		50.0	11.1	13.4	11.1	0.0	5.8
300000000000000000	25.00	0.00		56.6	11.1	13.2	12.4	0.0	5.0
300000000000000000	30.00	0.00		58.7	11.5	12.3	12.0	0.0	4.4
300000000000000000	35.00	0.00		77.7	11.5	12.1	11.8	0.0	4.4
300000000000000000	40.00	0.00	1	107.7	11.3	12.1	11.4	0.0	4.4
300000000000000000	45.00	0.00		44.4	11.9	12.0	11.4	0.0	4.4
300000000000000000	50.00	0.00		44.4	12.2	12.7	11.4	0.0	4.4
300000000000000000	55.00	0.00		55.1	12.2	12.5	11.3	0.0	4.4
300000000000000000	60.00	0.00		66.0	12.4	12.3	11.1	0.0	4.4
300000000000000000	65.00	0.00		66.0	12.4	12.3	11.1	0.0	4.4
300000000000000000	70.00	0.00		66.0	12.4	12.3	11.1	0.0	4.4
300000000000000000	75.00	0.00		66.0	12.4	12.3	11.1	0.0	4.4
300000000000000000	80.00	0.00		66.0	12.4	12.3	11.1	0.0	4.4
300000000000000000	85.00	0.00		66.0	12.4	12.3	11.1	0.0	4.4
300000000000000000	90.00	0.00		66.0	12.4	12.3	11.1	0.0	4.4
300000000000000000	95.00	0.00	1	77.7	12.2	12.3	11.1	0.0	4.4
300000000000000000	100.00	0.00	1	103.7	12.3	12.3	11.1	0.0	4.4
300000000000000000	40.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	45.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	50.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	55.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	60.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	65.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	70.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	75.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	80.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	85.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	90.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	95.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	100.00	0.00	1	103.7	13.0	14.1	11.1	0.0	4.4
300000000000000000	40.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	45.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	50.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	55.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	60.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	65.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	70.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	75.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	80.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	85.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	90.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	95.00	0.00		49.0	13.0	14.1	11.1	0.0	4.4
300000000000000000	100.00	0.00	1	103.7	13.0	14.1	11.1	0.0	4.4

RUN NUMBER = 92-5

SOURCE DIA. (CM) = 15.00  
SOURCE SPECIFIC GRAVITY = 4.18  
SOURCE TIME DURATION (SEC) = 40.0  
SOURCE FLOW RATE (CCS) = 140.0  
VELOCITY (CM/S) AT 2.1 CM = 69.0

X (CM)	POSITION			ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSAGE (X-SEC)
	Y (CM)	Z (CM)							
0	0	0	0	4.4	41.9	51.4	6.5	11.0	0.0
0	10	0	0	4.4	40.0	51.4	7.7	11.0	1.0
0	20	0	0	4.4	39.0	51.4	6.6	11.0	1.0
0	30	0	0	4.4	38.0	51.4	6.6	11.0	1.0
0	40	0	0	4.4	37.0	51.4	6.6	11.0	1.0
0	50	0	0	4.4	36.0	51.4	6.6	11.0	1.0
0	60	0	0	4.4	35.0	51.4	6.6	11.0	1.0
0	70	0	0	4.4	34.0	51.4	6.6	11.0	1.0
0	80	0	0	4.4	33.0	51.4	6.6	11.0	1.0
0	90	0	0	4.4	32.0	51.4	6.6	11.0	1.0
0	100	0	0	4.4	31.0	51.4	6.6	11.0	1.0
0	110	0	0	4.4	30.0	51.4	6.6	11.0	1.0
0	120	0	0	4.4	29.0	51.4	6.6	11.0	1.0
0	130	0	0	4.4	28.0	51.4	6.6	11.0	1.0
0	140	0	0	4.4	27.0	51.4	6.6	11.0	1.0
0	150	0	0	4.4	26.0	51.4	6.6	11.0	1.0
0	160	0	0	4.4	25.0	51.4	6.6	11.0	1.0
0	170	0	0	4.4	24.0	51.4	6.6	11.0	1.0
0	180	0	0	4.4	23.0	51.4	6.6	11.0	1.0
0	190	0	0	4.4	22.0	51.4	6.6	11.0	1.0
0	200	0	0	4.4	21.0	51.4	6.6	11.0	1.0
0	210	0	0	4.4	20.0	51.4	6.6	11.0	1.0
0	220	0	0	4.4	19.0	51.4	6.6	11.0	1.0
0	230	0	0	4.4	18.0	51.4	6.6	11.0	1.0
0	240	0	0	4.4	17.0	51.4	6.6	11.0	1.0
0	250	0	0	4.4	16.0	51.4	6.6	11.0	1.0
0	260	0	0	4.4	15.0	51.4	6.6	11.0	1.0
0	270	0	0	4.4	14.0	51.4	6.6	11.0	1.0
0	280	0	0	4.4	13.0	51.4	6.6	11.0	1.0
0	290	0	0	4.4	12.0	51.4	6.6	11.0	1.0
0	300	0	0	4.4	11.0	51.4	6.6	11.0	1.0
0	310	0	0	4.4	10.0	51.4	6.6	11.0	1.0
0	320	0	0	4.4	9.0	51.4	6.6	11.0	1.0
0	330	0	0	4.4	8.0	51.4	6.6	11.0	1.0
0	340	0	0	4.4	7.0	51.4	6.6	11.0	1.0
0	350	0	0	4.4	6.0	51.4	6.6	11.0	1.0
0	360	0	0	4.4	5.0	51.4	6.6	11.0	1.0
0	370	0	0	4.4	4.0	51.4	6.6	11.0	1.0
0	380	0	0	4.4	3.0	51.4	6.6	11.0	1.0
0	390	0	0	4.4	2.0	51.4	6.6	11.0	1.0
0	400	0	0	4.4	1.0	51.4	6.6	11.0	1.0

RUN NUMBER = 93-1

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.18  
 SOURCE TIME DURATION (SEC) = 2.0  
 SOURCE FLOW RATE (CCS) = 260.0  
 VELOCITY (CM/S) AT 2.1 CM = 74.0

	POSITION			ARRIVAL	PEAK	END	PEAK	CONC.	DOSAGE
	X	Y	Z	TIME	TIME	TIME	MODEL	FIELD	(X-SEC)
	(CM)	(CM)	(CM)	(SEC)	(SEC)	(SEC)			
30	0	0	0	1.8	2.5	20.5	11.7	26.4	.53
30	0	0	0	1.0	2.0	15.7	12.7	27.4	.54
30	10	0	0	1.3	2.7	4.4	10.7	24.7	.30
30	15	0	0	1.5	2.7	4.4	9.7	21.7	.16
30	20	0	0	1.7	2.7	3.8	9.5	22.1	.13
30	25	0	0	2.0	2.7	3.0	7.4	17.0	.08
30	30	0	0	2.0	2.4	3.0	6.6	1.6	.02
91	0	0	0	2.0	2.7	2.0	4.1	10.4	.19
91	0	0	0	2.0	2.7	2.7	4.4	10.6	.19
91	10	0	0	2.4	2.7	2.7	4.4	11.5	.21
91	15	0	0	2.4	2.7	2.7	4.4	10.1	.17
91	20	0	0	2.4	2.7	2.7	4.4	9.9	.16
91	25	0	0	2.4	2.7	2.7	4.4	7.7	.08
91	30	0	0	2.9	2.7	2.7	4.4	4.4	.05
102	0	0	0	2.6	2.7	2.7	4.4	3.7	.05
102	0	0	0	2.6	2.7	2.7	4.4	3.7	.05
102	10	0	0	2.6	2.7	2.7	4.4	3.7	.05
102	15	0	0	2.6	2.7	2.7	4.4	3.7	.05
102	20	0	0	2.6	2.7	2.7	4.4	3.7	.05
102	25	0	0	2.6	2.7	2.7	4.4	3.7	.05
102	30	0	0	2.6	2.7	2.7	4.4	3.7	.05
102	0	0	0	2.6	2.7	2.7	4.4	3.7	.05
102	0	0	0	2.6	2.7	2.7	4.4	3.7	.05

RUN NUMBER = 93-2  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 4.10  
 SOURCE TIME DURATION (SEC) = 264.0  
 SOURCE FLOW RATE (CCS) = 260.0  
 VELOCITY (CM/S) AT 2.1 CM = 74.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSAGE (X-SEC)
0.0	0.0	0.0	0.0	4.6	24.0	12.6	0.0	6.0
0.0	5.0	0.0	0.0	4.7	24.7	14.5	1.4	7.0
0.0	10.0	0.0	1.0	4.8	25.0	17.0	3.3	7.0
0.0	15.0	0.0	1.3	4.8	27.0	12.0	0.0	4.7
0.0	20.0	0.0	1.6	4.8	27.4	12.0	0.0	4.7
0.0	25.0	0.0	1.9	4.8	27.9	11.0	0.0	4.4
0.0	30.0	0.0	2.2	4.8	28.4	10.0	0.0	4.1
0.0	35.0	0.0	2.5	4.8	28.9	9.0	0.0	3.8
0.0	40.0	0.0	2.8	4.8	29.4	8.0	0.0	3.5
0.0	45.0	0.0	3.1	4.8	29.9	7.0	0.0	3.2
0.0	50.0	0.0	3.4	4.8	30.4	6.0	0.0	2.9
0.0	55.0	0.0	3.7	4.8	30.9	5.0	0.0	2.6
0.0	60.0	0.0	4.0	4.8	31.4	4.0	0.0	2.3
0.0	65.0	0.0	4.3	4.8	31.9	3.0	0.0	2.0
0.0	70.0	0.0	4.6	4.8	32.4	2.0	0.0	1.7
0.0	75.0	0.0	4.9	4.8	32.9	1.0	0.0	1.4
0.0	80.0	0.0	5.2	4.8	33.4	0.0	0.0	1.1
0.0	85.0	0.0	5.5	4.8	33.9	0.0	0.0	0.8
0.0	90.0	0.0	5.8	4.8	34.4	0.0	0.0	0.5
0.0	95.0	0.0	6.1	4.8	34.9	0.0	0.0	0.2
0.0	100.0	0.0	6.4	4.8	35.4	0.0	0.0	0.0

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RUN NUMBER                = 93-3
SOURCE DIA. (CM)          = 15.00
SOURCE SPECIFIC GRAVITY   = 4.18
SOURCE TIME DURATION (SEC) = 7.0
SOURCE FLOW RATE (CCS)    = 260.0
VELOCITY (CM/S) AT 2.1 CM = 74.0
  
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X (CM)	POSITION			ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSAGE (X-SEC)
	Y (CM)	Z (CM)							
000000	00.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	05.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	10.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	15.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	20.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	25.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	30.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	35.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	40.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	45.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	50.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	55.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	60.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	65.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	70.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	75.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	80.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	85.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	90.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	95.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	100.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	105.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	110.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	115.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	120.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	125.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	130.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	135.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	140.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	145.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	150.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	155.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	160.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	165.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	170.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	175.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	180.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	185.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	190.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	195.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	200.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	205.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	210.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	215.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	220.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	225.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	230.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	235.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	240.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	245.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	250.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	255.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	260.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	265.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	270.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	275.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	280.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	285.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	290.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	295.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00
000000	300.00	00.00		11.99	7.00	30.00	15.0	0.1	11.00











RUN NUMBER = 94-2  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) = 7.0  
 SOURCE FLOW RATE (CCS) = 280.0  
 VELOCITY (CM/S) AT 2.1 CM = 30.0

X (CM)	POSITION			ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK CONC.		DOSAGE (X-SEC)
	Y (CM)	Z (CM)					MODEL	FIELD	
102.9	45.0	0.0		14.9	20.9	20.7	1.7	4.5	.24
102.9	50.0	0.0		16.7	20.7	20.0	1.5	4.0	.18
102.9	55.0	0.0		17.6	20.5	20.7	1.3	3.4	.17
102.9	60.0	0.0		21.4	21.4	21.7	1.1	2.9	.13
102.9	65.0	0.0		0.0	21.4	0.0	.9	2.4	.11

RUN NUMBER = 94-3

SOURCE STA. (CH) = 11  
 SOURCE SPECIFIC GRAVITY = 2.1  
 SOURCE TIME DURATION (SEC) = 10  
 SOURCE FLOW RATE (CCS) = 200  
 VELOCITY (CM/3) AT 2.1 CM = 30.0

CX (CH)	POSITION (CH)		START TIME (SEC)	PER TIME (SEC)	END TIME (SEC)	APPR VAL	CONC. FIELD	DOSAGE (X-SEC)
	Y	Z						
1	1	1	10	10	20			
1	1	1	11	11	21			
1	1	1	12	12	22			
1	1	1	13	13	23			
1	1	1	14	14	24			
1	1	1	15	15	25			
1	1	1	16	16	26			
1	1	1	17	17	27			
1	1	1	18	18	28			
1	1	1	19	19	29			
1	1	1	20	20	30			

RUN NUMBER = 94-3  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) = 10.0  
 SOURCE FLOW RATE (CCS) = 200.0  
 VELOCITY (CM/S) AT 2.1 CM = 30.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
102.9	45.0	0.0	16.1	18.9	33.1	2.0	5.2	.32
102.9	50.0	0.0	17.6	19.4	32.7	1.0	4.7	.24
102.9	55.0	0.0	17.9	20.2	31.0	1.0	4.7	.23
102.9	60.0	0.0	18.0	20.6	29.6	1.5	4.0	.15
102.9	65.0	0.0	19.4	20.1	22.3	1.3	3.4	.12
102.9	70.0	0.0	20.1	20.4	22.0	1.1	2.9	.09

RUN NUMBER

= 94-4

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) = 15.0  
 SOURCE FLOW RATE (CCS) = 200.0  
 VELOCITY (CM/S) AT 2.1 CM = 30.0

W (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	COND. FIELD	DOSE (X-SEC)
1	0	0	15	15	15	1	0	0
1	10	0	16	16	16	1	0	0
1	20	0	17	17	17	1	0	0
1	30	0	18	18	18	1	0	0
1	40	0	19	19	19	1	0	0
1	50	0	20	20	20	1	0	0
1	60	0	21	21	21	1	0	0
1	70	0	22	22	22	1	0	0
1	80	0	23	23	23	1	0	0
1	90	0	24	24	24	1	0	0
1	100	0	25	25	25	1	0	0
1	110	0	26	26	26	1	0	0
1	120	0	27	27	27	1	0	0
1	130	0	28	28	28	1	0	0
1	140	0	29	29	29	1	0	0
1	150	0	30	30	30	1	0	0
1	160	0	31	31	31	1	0	0
1	170	0	32	32	32	1	0	0
1	180	0	33	33	33	1	0	0
1	190	0	34	34	34	1	0	0
1	200	0	35	35	35	1	0	0
1	210	0	36	36	36	1	0	0
1	220	0	37	37	37	1	0	0
1	230	0	38	38	38	1	0	0
1	240	0	39	39	39	1	0	0
1	250	0	40	40	40	1	0	0
1	260	0	41	41	41	1	0	0
1	270	0	42	42	42	1	0	0
1	280	0	43	43	43	1	0	0
1	290	0	44	44	44	1	0	0
1	300	0	45	45	45	1	0	0
1	310	0	46	46	46	1	0	0
1	320	0	47	47	47	1	0	0
1	330	0	48	48	48	1	0	0
1	340	0	49	49	49	1	0	0
1	350	0	50	50	50	1	0	0
1	360	0	51	51	51	1	0	0
1	370	0	52	52	52	1	0	0
1	380	0	53	53	53	1	0	0
1	390	0	54	54	54	1	0	0
1	400	0	55	55	55	1	0	0
1	410	0	56	56	56	1	0	0
1	420	0	57	57	57	1	0	0
1	430	0	58	58	58	1	0	0
1	440	0	59	59	59	1	0	0
1	450	0	60	60	60	1	0	0
1	460	0	61	61	61	1	0	0
1	470	0	62	62	62	1	0	0
1	480	0	63	63	63	1	0	0
1	490	0	64	64	64	1	0	0
1	500	0	65	65	65	1	0	0
1	510	0	66	66	66	1	0	0
1	520	0	67	67	67	1	0	0
1	530	0	68	68	68	1	0	0
1	540	0	69	69	69	1	0	0
1	550	0	70	70	70	1	0	0
1	560	0	71	71	71	1	0	0
1	570	0	72	72	72	1	0	0
1	580	0	73	73	73	1	0	0
1	590	0	74	74	74	1	0	0
1	600	0	75	75	75	1	0	0
1	610	0	76	76	76	1	0	0
1	620	0	77	77	77	1	0	0
1	630	0	78	78	78	1	0	0
1	640	0	79	79	79	1	0	0
1	650	0	80	80	80	1	0	0
1	660	0	81	81	81	1	0	0
1	670	0	82	82	82	1	0	0
1	680	0	83	83	83	1	0	0
1	690	0	84	84	84	1	0	0
1	700	0	85	85	85	1	0	0
1	710	0	86	86	86	1	0	0
1	720	0	87	87	87	1	0	0
1	730	0	88	88	88	1	0	0
1	740	0	89	89	89	1	0	0
1	750	0	90	90	90	1	0	0
1	760	0	91	91	91	1	0	0
1	770	0	92	92	92	1	0	0
1	780	0	93	93	93	1	0	0
1	790	0	94	94	94	1	0	0
1	800	0	95	95	95	1	0	0
1	810	0	96	96	96	1	0	0
1	820	0	97	97	97	1	0	0
1	830	0	98	98	98	1	0	0
1	840	0	99	99	99	1	0	0
1	850	0	100	100	100	1	0	0

RUN NUMBER = 94-4  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) = 15.0  
 SOURCE FLOW RATE (CCS) = 280.0  
 VELOCITY (CM/SEC) AT 2.1 CM = 30.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
10000.0	200.0	0.0	13.1	23.7	42.5	4	10.6	85
10000.0	350.0	0.0	13.5	23.9	41.4	4	9.9	80
10000.0	500.0	0.0	13.9	24.0	40.2	4	9.0	70
10000.0	650.0	0.0	14.1	24.1	39.3	4	8.6	65
10000.0	800.0	0.0	14.4	24.4	38.8	4	8.0	60
10000.0	950.0	0.0	14.7	24.5	38.3	4	7.7	55
10000.0	1100.0	0.0	15.1	24.8	37.4	4	7.2	50
10000.0	1250.0	0.0	15.4	24.1	36.8	4	6.8	45
10000.0	1400.0	0.0	15.8	24.4	36.6	4	6.5	40
10000.0	1550.0	0.0	16.1	24.6	36.7	4	6.1	35
10000.0	1700.0	0.0	16.5	24.9	36.7	4	5.7	30
10000.0	1850.0	0.0	16.9	24.9	36.7	4	5.3	25
10000.0	2000.0	0.0	17.3	24.9	36.7	4	4.9	20
10000.0	2150.0	0.0	17.7	24.9	36.7	4	4.5	15
10000.0	2300.0	0.0	18.1	24.9	36.7	4	4.1	10
10000.0	2450.0	0.0	18.5	24.9	36.7	4	3.7	5

RUN NUMBER = 94-5  
 SOURCE DIA (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) = 40.0  
 SOURCE FLOW RATE (CCS) = 280.0  
 VELOCITY (CM/3) AT 2.1 CM = 30.0

	POSITION (X) (CM)	Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
1	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
32	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
33	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
34	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
35	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
36	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
37	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
38	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
39	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
40	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
41	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
42	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
43	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
44	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
45	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
46	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
47	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
48	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
49	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
50	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
51	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
52	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
53	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
54	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
55	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
56	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
57	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
58	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
59	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
60	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
61	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
62	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
63	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
64	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
65	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
66	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
67	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
68	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
69	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
70	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
71	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
72	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
73	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
74	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
75	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
76	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
77	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
78	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
79	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
80	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
81	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
82	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
83	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
84	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
85	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
86	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
87	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
88	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
89	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
90	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
91	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
92	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
93	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
94	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
95	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
96	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
97	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
98	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
99	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	
100	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	





RUN NUMBER = 95-1  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) = 44.0  
 SOURCE FLOW RATE (CCS) = 200.0  
 VELOCITY (CM/S) AT 2, 1. CM. = 44.0

X (CM)	POSITION			ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
	Y (CM)	Z (CM)							
0000	0000	0000	0000	1111	0000	0000	1	0000	0000
0000	0500	0000	0000	1111	4400	1200	1	0000	0000
0000	1000	0000	0000	1111	8800	1600	1	0000	0000
0000	1500	0000	0000	1111	1320	2000	1	0000	0000
0000	2000	0000	0000	1111	1760	2400	1	0000	0000
0000	2500	0000	0000	1111	2200	2800	1	0000	0000
0000	3000	0000	0000	1111	2640	3200	1	0000	0000
0000	3500	0000	0000	1111	3080	3600	1	0000	0000
0000	4000	0000	0000	1111	3520	4000	1	0000	0000
0000	4500	0000	0000	1111	3960	4400	1	0000	0000
0000	5000	0000	0000	1111	4400	4800	1	0000	0000
0000	5500	0000	0000	1111	4840	5200	1	0000	0000
0000	6000	0000	0000	1111	5280	5600	1	0000	0000
0000	6500	0000	0000	1111	5720	6000	1	0000	0000
0000	7000	0000	0000	1111	6160	6400	1	0000	0000
0000	7500	0000	0000	1111	6600	6800	1	0000	0000
0000	8000	0000	0000	1111	7040	7200	1	0000	0000
0000	8500	0000	0000	1111	7480	7600	1	0000	0000
0000	9000	0000	0000	1111	7920	7800	1	0000	0000
0000	9500	0000	0000	1111	8360	8000	1	0000	0000
0000	10000	0000	0000	1111	8800	8200	1	0000	0000

RUN NUMBER = 95-2  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) = 7.0  
 SOURCE FLOW RATE (CCS) = 280.0  
 VELOCITY (CM/SEC) AT 2.1 CM = 44.0

X (CM)	POSITION			ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELDS	DOSAGE (X-SEC)
	Y (CM)	Z (CM)							
0.0	0.0	0.0		11.1	7.7	22.9	1	0.0	1.0
0.0	1.0	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	1.5	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	2.0	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	2.5	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	3.0	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	3.5	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	4.0	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	4.5	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	5.0	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	5.5	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	6.0	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	6.5	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	7.0	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	7.5	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	8.0	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	8.5	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	9.0	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	9.5	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	10.0	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	10.5	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	11.0	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	11.5	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	12.0	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	12.5	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	13.0	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	13.5	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	14.0	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	14.5	0.0		11.1	7.7	14.0	1	0.0	1.0
0.0	15.0	0.0		11.1	7.7	14.0	1	0.0	1.0

RUN NUMBER

= 95-3

SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) = 10.0  
 SOURCE FLOW RATE (CCS) = 280.0  
 VELOCITY (CM/S) AT 2.1 CM = 44.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSAGE (X-SEC)
30	0	0	11.2	0.7	20.2	11.7	26.4	1.42
30	5	0	11.1	10.8	20.2	11.7	30.0	1.57
30	10	0	11.0	10.7	17.3	11.1	28.9	1.30
30	15	0	10.9	10.6	16.1	11.1	27.1	1.05
30	20	0	10.8	10.6	16.1	11.1	24.5	.90
30	25	0	10.7	10.5	15.4	11.1	22.1	.71
30	30	0	10.6	9.7	14.7	6.0	16.0	.44
30	35	0	10.5	11.6	14.4	5.0	14.3	.31
30	40	0	10.5	13.2	13.2	4.4	10.0	.19
30	45	0	10.5	9.9	11.1	4.4	7.7	.10
30	50	0	10.5	9.9	9.0	1.1	2.0	.01
30	55	0	10.5	9.9	9.0	1.1	0.0	0.00
30	60	0	10.5	13.4	20.0	5.0	13.7	.69
30	65	0	10.5	13.3	20.0	5.0	13.6	.65
30	70	0	10.5	13.3	20.0	5.0	13.6	.65
30	75	0	10.5	14.1	19.3	4.4	11.0	.57
30	80	0	10.5	13.1	18.9	4.4	10.0	.47
30	85	0	10.5	13.1	18.0	4.4	9.9	.46
30	90	0	10.5	13.7	18.0	4.4	9.9	.46
30	95	0	11.0	13.7	18.0	4.4	9.9	.46
30	100	0	11.2	14.0	16.2	4.4	9.9	.46
30	105	0	11.0	14.0	14.0	1.1	4.4	.22
30	110	0	11.0	14.0	14.0	1.1	4.4	.22
30	115	0	11.0	16.0	20.0	5.0	9.9	.46
30	120	0	11.0	15.0	20.0	5.0	9.9	.46
30	125	0	11.0	16.0	20.0	5.0	9.9	.46
30	130	0	11.0	17.0	20.0	5.0	9.9	.46
30	135	0	11.0	16.0	20.0	5.0	9.9	.46
30	140	0	11.0	16.0	20.0	5.0	9.9	.46
30	145	0	11.0	16.0	20.0	5.0	9.9	.46
30	150	0	11.0	16.0	20.0	5.0	9.9	.46



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RUN NUMBER                      = 95-0
SOURCE DIA. (CM)                = 15.00
SOURCE SPECIFIC GRAVITY        = 2.59
SOURCE TIME DURATION (SEC)     = 40.0
SOURCE FLOW RATE (CCS)         = 200.0
VELOCITY (CM/S) AT 2.1 CM     = 44.0

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X (CM)	POSITION			ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	SOURCE (X-SEC)
	Y (CM)	Z (CM)							
000000000000000000000000	000000000000000000000000	000000000000000000000000		111111111111111111111111	111111111111111111111111	111111111111111111111111			000000000000000000000000
000000000000000000000000	000000000000000000000000	000000000000000000000000		111111111111111111111111	111111111111111111111111	111111111111111111111111			000000000000000000000000
000000000000000000000000	000000000000000000000000	000000000000000000000000		111111111111111111111111	111111111111111111111111	111111111111111111111111			000000000000000000000000
000000000000000000000000	000000000000000000000000	000000000000000000000000		111111111111111111111111	111111111111111111111111	111111111111111111111111			000000000000000000000000
000000000000000000000000	000000000000000000000000	000000000000000000000000		111111111111111111111111	111111111111111111111111	111111111111111111111111			000000000000000000000000
000000000000000000000000	000000000000000000000000	000000000000000000000000		111111111111111111111111	111111111111111111111111	111111111111111111111111			000000000000000000000000
000000000000000000000000	000000000000000000000000	000000000000000000000000		111111111111111111111111	111111111111111111111111	111111111111111111111111			000000000000000000000000
000000000000000000000000	000000000000000000000000	000000000000000000000000		111111111111111111111111	111111111111111111111111	111111111111111111111111			000000000000000000000000
000000000000000000000000	000000000000000000000000	000000000000000000000000		111111111111111111111111	111111111111111111111111	111111111111111111111111			000000000000000000000000
000000000000000000000000	000000000000000000000000	000000000000000000000000		111111111111111111111111	111111111111111111111111	111111111111111111111111			000000000000000000000000

RUN NUMBER = 95-5  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) = 40.0  
 SOURCE FLOW RATE (CCS) = 200.0  
 VELOCITY (CM/RS) AT 2.1 CM = 44.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
182.9	60.0	0.0	25.1	25.1	25.2	1.0	2.7	.12
182.9	65.0	0.0	0.0	35.0	0.0	.7	1.9	.07

RUN NUMBER = 96-1  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.00  
 SOURCE TIME DURATION (SEC) = 4.0  
 SOURCE FLOW RATE (CCS) = 170.0  
 VELOCITY (CM/SEC) AT 2.1 CM = 33.5

X (CM)	POSITION			ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK HEIGHT	CONC. FIELD	DOSEAGE (X-SEC)
	Y (CM)	Z (CM)							
0	0	0	0	0	0	0	0	0	0
0	10	0	0	0	0	0	0	0	0
0	20	0	0	0	0	0	0	0	0
0	30	0	0	0	0	0	0	0	0
0	40	0	0	0	0	0	0	0	0
0	50	0	0	0	0	0	0	0	0
0	60	0	0	0	0	0	0	0	0
0	70	0	0	0	0	0	0	0	0
0	80	0	0	0	0	0	0	0	0
0	90	0	0	0	0	0	0	0	0
0	100	0	0	0	0	0	0	0	0
0	110	0	0	0	0	0	0	0	0
0	120	0	0	0	0	0	0	0	0
0	130	0	0	0	0	0	0	0	0
0	140	0	0	0	0	0	0	0	0
0	150	0	0	0	0	0	0	0	0
0	160	0	0	0	0	0	0	0	0
0	170	0	0	0	0	0	0	0	0
0	180	0	0	0	0	0	0	0	0
0	190	0	0	0	0	0	0	0	0
0	200	0	0	0	0	0	0	0	0
0	210	0	0	0	0	0	0	0	0
0	220	0	0	0	0	0	0	0	0
0	230	0	0	0	0	0	0	0	0
0	240	0	0	0	0	0	0	0	0
0	250	0	0	0	0	0	0	0	0
0	260	0	0	0	0	0	0	0	0
0	270	0	0	0	0	0	0	0	0
0	280	0	0	0	0	0	0	0	0
0	290	0	0	0	0	0	0	0	0
0	300	0	0	0	0	0	0	0	0
0	310	0	0	0	0	0	0	0	0
0	320	0	0	0	0	0	0	0	0
0	330	0	0	0	0	0	0	0	0
0	340	0	0	0	0	0	0	0	0
0	350	0	0	0	0	0	0	0	0
0	360	0	0	0	0	0	0	0	0
0	370	0	0	0	0	0	0	0	0
0	380	0	0	0	0	0	0	0	0
0	390	0	0	0	0	0	0	0	0
0	400	0	0	0	0	0	0	0	0
0	410	0	0	0	0	0	0	0	0
0	420	0	0	0	0	0	0	0	0
0	430	0	0	0	0	0	0	0	0
0	440	0	0	0	0	0	0	0	0
0	450	0	0	0	0	0	0	0	0
0	460	0	0	0	0	0	0	0	0
0	470	0	0	0	0	0	0	0	0
0	480	0	0	0	0	0	0	0	0
0	490	0	0	0	0	0	0	0	0
0	500	0	0	0	0	0	0	0	0
0	510	0	0	0	0	0	0	0	0
0	520	0	0	0	0	0	0	0	0
0	530	0	0	0	0	0	0	0	0
0	540	0	0	0	0	0	0	0	0
0	550	0	0	0	0	0	0	0	0
0	560	0	0	0	0	0	0	0	0
0	570	0	0	0	0	0	0	0	0
0	580	0	0	0	0	0	0	0	0
0	590	0	0	0	0	0	0	0	0
0	600	0	0	0	0	0	0	0	0
0	610	0	0	0	0	0	0	0	0
0	620	0	0	0	0	0	0	0	0
0	630	0	0	0	0	0	0	0	0
0	640	0	0	0	0	0	0	0	0
0	650	0	0	0	0	0	0	0	0
0	660	0	0	0	0	0	0	0	0
0	670	0	0	0	0	0	0	0	0
0	680	0	0	0	0	0	0	0	0
0	690	0	0	0	0	0	0	0	0
0	700	0	0	0	0	0	0	0	0
0	710	0	0	0	0	0	0	0	0
0	720	0	0	0	0	0	0	0	0
0	730	0	0	0	0	0	0	0	0
0	740	0	0	0	0	0	0	0	0
0	750	0	0	0	0	0	0	0	0
0	760	0	0	0	0	0	0	0	0
0	770	0	0	0	0	0	0	0	0
0	780	0	0	0	0	0	0	0	0
0	790	0	0	0	0	0	0	0	0
0	800	0	0	0	0	0	0	0	0
0	810	0	0	0	0	0	0	0	0
0	820	0	0	0	0	0	0	0	0
0	830	0	0	0	0	0	0	0	0
0	840	0	0	0	0	0	0	0	0
0	850	0	0	0	0	0	0	0	0
0	860	0	0	0	0	0	0	0	0
0	870	0	0	0	0	0	0	0	0
0	880	0	0	0	0	0	0	0	0
0	890	0	0	0	0	0	0	0	0
0	900	0	0	0	0	0	0	0	0
0	910	0	0	0	0	0	0	0	0
0	920	0	0	0	0	0	0	0	0
0	930	0	0	0	0	0	0	0	0
0	940	0	0	0	0	0	0	0	0
0	950	0	0	0	0	0	0	0	0
0	960	0	0	0	0	0	0	0	0
0	970	0	0	0	0	0	0	0	0
0	980	0	0	0	0	0	0	0	0
0	990	0	0	0	0	0	0	0	0
0	1000	0	0	0	0	0	0	0	0



RUN NUMBER = 96-2  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) = 7.0  
 SOURCE FLOW RATE (CCS) = 130.0  
 VELOCITY (CM/S) AT 2.1 CM = 33.5

X (CM)	POSITION			ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	COND. FIELD	DOSEAGE (% - SEC)
	Y (CM)	Z (CM)							
0	0	0	0	0	7	6	1	0	1
0	5	0	0	0	8	6	1	0	1
0	10	0	0	0	9	6	1	0	1
0	15	0	0	0	10	6	1	0	1
0	20	0	0	0	11	6	1	0	1
0	25	0	0	0	12	6	1	0	1
0	30	0	0	0	13	6	1	0	1
0	35	0	0	0	14	6	1	0	1
0	40	0	0	0	15	6	1	0	1
0	45	0	0	0	16	6	1	0	1
0	50	0	0	0	17	6	1	0	1
0	55	0	0	0	18	6	1	0	1
0	60	0	0	0	19	6	1	0	1
0	65	0	0	0	20	6	1	0	1
0	70	0	0	0	21	6	1	0	1
0	75	0	0	0	22	6	1	0	1
0	80	0	0	0	23	6	1	0	1
0	85	0	0	0	24	6	1	0	1
0	90	0	0	0	25	6	1	0	1
0	95	0	0	0	26	6	1	0	1
0	100	0	0	0	27	6	1	0	1
0	105	0	0	0	28	6	1	0	1
0	110	0	0	0	29	6	1	0	1
0	115	0	0	0	30	6	1	0	1
0	120	0	0	0	31	6	1	0	1
0	125	0	0	0	32	6	1	0	1
0	130	0	0	0	33	6	1	0	1
0	135	0	0	0	34	6	1	0	1
0	140	0	0	0	35	6	1	0	1
0	145	0	0	0	36	6	1	0	1
0	150	0	0	0	37	6	1	0	1
0	155	0	0	0	38	6	1	0	1
0	160	0	0	0	39	6	1	0	1
0	165	0	0	0	40	6	1	0	1
0	170	0	0	0	41	6	1	0	1
0	175	0	0	0	42	6	1	0	1
0	180	0	0	0	43	6	1	0	1
0	185	0	0	0	44	6	1	0	1
0	190	0	0	0	45	6	1	0	1
0	195	0	0	0	46	6	1	0	1
0	200	0	0	0	47	6	1	0	1
0	205	0	0	0	48	6	1	0	1
0	210	0	0	0	49	6	1	0	1
0	215	0	0	0	50	6	1	0	1
0	220	0	0	0	51	6	1	0	1
0	225	0	0	0	52	6	1	0	1
0	230	0	0	0	53	6	1	0	1
0	235	0	0	0	54	6	1	0	1
0	240	0	0	0	55	6	1	0	1
0	245	0	0	0	56	6	1	0	1
0	250	0	0	0	57	6	1	0	1
0	255	0	0	0	58	6	1	0	1
0	260	0	0	0	59	6	1	0	1
0	265	0	0	0	60	6	1	0	1
0	270	0	0	0	61	6	1	0	1
0	275	0	0	0	62	6	1	0	1
0	280	0	0	0	63	6	1	0	1
0	285	0	0	0	64	6	1	0	1
0	290	0	0	0	65	6	1	0	1
0	295	0	0	0	66	6	1	0	1
0	300	0	0	0	67	6	1	0	1
0	305	0	0	0	68	6	1	0	1
0	310	0	0	0	69	6	1	0	1
0	315	0	0	0	70	6	1	0	1
0	320	0	0	0	71	6	1	0	1
0	325	0	0	0	72	6	1	0	1
0	330	0	0	0	73	6	1	0	1
0	335	0	0	0	74	6	1	0	1
0	340	0	0	0	75	6	1	0	1
0	345	0	0	0	76	6	1	0	1
0	350	0	0	0	77	6	1	0	1
0	355	0	0	0	78	6	1	0	1
0	360	0	0	0	79	6	1	0	1
0	365	0	0	0	80	6	1	0	1
0	370	0	0	0	81	6	1	0	1
0	375	0	0	0	82	6	1	0	1
0	380	0	0	0	83	6	1	0	1
0	385	0	0	0	84	6	1	0	1
0	390	0	0	0	85	6	1	0	1
0	395	0	0	0	86	6	1	0	1
0	400	0	0	0	87	6	1	0	1
0	405	0	0	0	88	6	1	0	1
0	410	0	0	0	89	6	1	0	1
0	415	0	0	0	90	6	1	0	1
0	420	0	0	0	91	6	1	0	1
0	425	0	0	0	92	6	1	0	1
0	430	0	0	0	93	6	1	0	1
0	435	0	0	0	94	6	1	0	1
0	440	0	0	0	95	6	1	0	1
0	445	0	0	0	96	6	1	0	1
0	450	0	0	0	97	6	1	0	1
0	455	0	0	0	98	6	1	0	1
0	460	0	0	0	99	6	1	0	1
0	465	0	0	0	100	6	1	0	1

RUN NUMBER = 96-3  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 2.59  
 SOURCE TIME DURATION (SEC) = 10.0  
 SOURCE FLOW RATE (CCS) = 130.0  
 VELOCITY (CM/S) AT 2.1 CM = 33.5

POSITION			ARRIVAL	PEAK	END	PEAK CONC.	DOSEAGE
X	Y	Z	TIME	TIME	TIME	MODEL	FIELD
(CM)	(CM)	(CM)	(SEC)	(SEC)	(SEC)		(X-SEC)
000000	000000	000000	00	10	00	10	0
000000	000000	000000	00	11	00	11	0
000000	100000	000000	00	11	44	11	0
000000	110000	000000	00	11	00	11	0
000000	110000	000000	00	10	00	10	0
000000	110000	000000	00	11	44	11	0
000000	110000	000000	00	11	00	11	0
000000	110000	000000	00	12	00	12	0
000000	110000	000000	00	12	00	12	0
000000	110000	000000	00	13	00	13	0
000000	110000	000000	00	14	00	14	0
000000	110000	000000	00	14	00	14	0
000000	110000	000000	00	12	00	12	0
000000	110000	000000	00	13	00	13	0
000000	110000	000000	00	14	00	14	0
000000	110000	000000	00	14	00	14	0
000000	110000	000000	00	14	00	14	0
000000	110000	000000	00	14	00	14	0
000000	110000	000000	00	15	00	15	0
000000	110000	000000	00	16	00	16	0
000000	110000	000000	00	16	00	16	0
000000	110000	000000	00	17	00	17	0
000000	110000	000000	00	17	00	17	0
000000	110000	000000	00	20	00	20	0
000000	110000	000000	00	21	00	21	0
000000	110000	000000	00	11	00	11	0
000000	110000	000000	00	14	00	14	0
000000	110000	000000	00	14	00	14	0
000000	110000	000000	00	14	00	14	0
000000	110000	000000	00	10	00	10	0
000000	110000	000000	00	10	00	10	0
000000	110000	000000	00	10	00	10	0
000000	110000	000000	00	10	00	10	0
000000	110000	000000	00	22	00	22	0
000000	110000	000000	00	22	00	22	0
000000	110000	000000	00	22	00	22	0
000000	110000	000000	00	22	00	22	0
000000	110000	000000	00	22	00	22	0
000000	110000	000000	00	22	00	22	0
000000	110000	000000	00	22	00	22	0
000000	110000	000000	00	22	00	22	0
000000	110000	000000	00	22	00	22	0
000000	110000	000000	00	22	00	22	0
000000	110000	000000	00	22	00	22	0
000000	110000	000000	00	22	00	22	0
000000	110000	000000	00	22	00	22	0
000000	110000	000000	00	22	00	22	0
000000	110000	000000	00	22	00	22	0
000000	110000	000000	00	22	00	22	0





RUN NUMBER = 97-1  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 4.0  
 SOURCE FLOW RATE (CCS) = 110.0  
 VELOCITY (CM/S) AT 2.1 CM = 20.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
70.5	0.0	0.0	2.9	7.5	42.1	5.9	14.5	.98
30.5	5.0	0.0	3.6	7.1	36.9	4.8	12.0	.78
30.5	10.0	0.0	3.9	7.7	34.1	3.6	9.2	.41
30.5	15.0	0.0	5.7	9.3	18.7	2.8	7.2	.20
30.5	20.0	0.0	0.0	17.4	0.0	0.9	2.4	.02
30.5	25.0	0.0	0.0	66.5	0.0	0.0	0.0	0.00
30.5	30.0	0.0	0.0	37.6	0.0	.1	.3	.01
30.5	35.0	0.0	0.0	32.8	0.0	.1	.3	.02
91.4	0.0	0.0	9.4	15.3	17.5	1.8	4.7	.99
91.4	5.0	0.0	10.4	11.1	18.0	1.7	4.5	.77
91.4	10.0	0.0	11.8	13.6	18.4	1.3	3.9	.18
91.4	15.0	0.0	12.9	15.0	18.4	1.3	3.4	.16
91.4	20.0	0.0	13.7	15.3	18.0	1.3	3.4	.13
91.4	25.0	0.0	14.9	15.3	20.1	1.4	3.7	.14
91.4	30.0	0.0	15.4	16.4	17.8	1.0	2.7	.08
91.4	35.0	0.0	0.0	21.2	0.0	.4	1.1	.02

RUN NUMBER = 97-2  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 7.0  
 SOURCE FLOW RATE (CCS) = 110.0  
 VELOCITY (CM/S) AT 2.1 CM = 20.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSAGE (X-SEC)
30.5	0.0	0.0	1.3	9.4	40.1	10.2	23.5	1.48
30.5	5.0	0.0	3.0	9.6	40.1	9.9	22.5	1.20
30.5	10.0	0.0	4.4	9.1	35.8	7.9	18.8	0.93
30.5	15.0	0.0	5.5	8.3	32.7	6.7	16.3	0.60
30.5	20.0	0.0	6.3	8.0	27.1	5.4	13.4	0.36
30.5	25.0	0.0	8.0	7.3	15.5	4.0	10.1	0.23
30.5	30.0	0.0	11.1	6.2	15.5	3.0	7.7	0.14
30.5	35.0	0.0	12.8	5.2	16.3	1.5	4.4	0.15
91.4	0.0	0.0	10.5	13.0	22.4	2.5	6.5	0.40
91.4	5.0	0.0	10.6	16.3	22.6	2.5	6.5	0.40
91.4	10.0	0.0	11.0	16.7	22.7	2.3	6.0	0.38
91.4	15.0	0.0	11.0	17.4	22.0	1.4	5.5	0.36
91.4	20.0	0.0	12.5	15.0	19.6	1.3	5.0	0.29
91.4	25.0	0.0	13.1	16.0	19.5	1.7	4.4	0.21
91.4	30.0	0.0	13.9	15.0	20.4	1.3	3.4	0.17
91.4	35.0	0.0	0.0	16.4	0.0	1.0	2.7	0.11

RUN NUMBER = 97-3  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 10.0  
 SOURCE FLOW RATE (CCS) = 110.0  
 VELOCITY (CM/RS) AT 2.1 CM = 20.0

	POSITION	ARRIVAL	PEAK	END	PEAK	CONC.	DOSEAGE
X	Y	TIME	TIME	TIME	MODEL	FIELD	(X-SEC)
(CM)	(CM)	(SEC)	(SEC)	(SEC)			
00	00	20	10	54	11	20	1.79
00	50	30	11.4	48	11	20	1.70
00	100	33	12.6	33	11	20	1.17
00	150	4	13.4	31	11	20	1.23
00	200	6	14	34	11	20	1.1
00	250	7	15.1	20	11	20	1.44
00	300	13	16	21	11	20	1.5
00	350	19	17.9	0	11	20	1.22
00	400	29	19.7	27	11	20	1.44
00	450	39	19.5	20	11	20	1.77
00	500	10	19.4	29	11	20	1.41
00	550	10	16	30	11	20	1.44
00	600	19	14.1	27	11	20	1.66
00	650	12	17.5	33	11	20	1.66
00	700	14	16	20	11	20	1.66
00	750	17	21.9	20	11	20	1.44
00	800	18	23.5	29	11	20	1.44
00	850	17	26.5	20	11	20	1.44
00	900	18	21.4	29	11	20	1.44
00	950	20	21	25	11	20	1.21
00	1000	20	21.2	27	11	20	1.21
00	1050	0	25.5	0	11	20	1.77
00	1100	0	28	0	11	20	1.4

RUN NUMBER = 97-4  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 15.0  
 SOURCE FLOW RATE (CCS) = 110.0  
 VELOCITY (CM/RS) AT 2.1 CM = 20.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSAGE (X-SEC)
30.0	0.0	0.0	0.0	16.1	54.5	13.3	29.3	22.6
30.0	0.0	0.0	0.0	15.9	54.4	13.0	29.0	22.4
30.0	0.0	0.0	0.0	15.0	55.0	11.5	26.0	11.9
30.0	1.0	0.0	0.0	14.7	52.2	10.0	23.1	11.4
30.0	2.5	0.0	0.0	18.2	28.4	8.1	19.2	1.0
30.0	5.0	0.0	10.0	19.0	28.1	6.0	14.7	0.4
30.0	7.5	0.0	12.0	18.8	28.1	5.3	13.1	0.1
30.0	10.0	0.0	15.0	19.7	27.7	4.4	11.1	0.1
91.4	0.0	0.0	10.0	20.0	30.0	3.0	9.9	0.6
91.4	0.0	0.0	11.9	17.7	31.1	3.3	9.9	0.7
91.4	1.0	0.0	11.7	18.8	31.1	3.3	9.9	0.7
91.4	2.5	0.0	11.9	18.9	32.2	3.3	9.9	0.6
91.4	5.0	0.0	11.7	17.7	33.5	3.3	9.9	0.5
91.4	7.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	10.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	12.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	15.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	17.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	20.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	22.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	25.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	27.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	30.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	32.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	35.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	37.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	40.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	42.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	45.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	47.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	50.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	52.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	55.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	57.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	60.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	62.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	65.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	67.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	70.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	72.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	75.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	77.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	80.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	82.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	85.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	87.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	90.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	92.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	95.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	97.5	0.0	11.9	18.9	33.5	3.3	9.9	0.5
91.4	100.0	0.0	11.9	18.9	33.5	3.3	9.9	0.5





RUN NUMBER = 97-5  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 40.0  
 SOURCE FLOW RATE (CCS) = 110.0  
 VELOCITY (CM/S) AT 2.1 CM = 20.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSAGE (X-SEC)
182.9	35.0	0.0	23.8	44.2	58.8	2.0	5.2	.64
182.9	40.0	0.0	24.4	47.4	59.6	1.8	4.7	.60
182.9	45.0	0.0	30.2	49.1	57.2	2.0	5.2	.60
182.9	50.0	0.0	32.3	49.2	56.1	1.7	4.5	.51
182.9	55.0	0.0	35.0	50.7	53.9	1.5	4.0	.33
182.9	60.0	0.0	35.4	40.5	54.9	1.4	3.7	.44
182.9	65.0	0.0	0.0	48.2	0.0	1.0	2.7	.26
182.9	70.0	0.0	0.0	55.6	0.0	.6	1.6	.11

RUN NUMBER = 98-1  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 4.0  
 SOURCE FLOW RATE (CCS) = 300.0  
 VELOCITY (CM/SEC) AT 2.1 CM = 28.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSSAGE (X-SEC)
30.0	0.0	0.0	1.0	5.0	45.6	14.9	3.1	1.80
30.0	5.0	0.0	2.0	5.0	36.0	17.2	3.0	1.50
30.0	10.0	0.0	3.0	5.0	14.0	16.1	3.2	.95
30.0	15.0	0.0	4.0	5.0	13.4	14.1	3.7	.71
30.0	20.0	0.0	4.4	7.0	11.9	10.8	4.7	.46
30.0	25.0	0.0	5.0	7.0	12.5	7.2	3.3	.32
30.0	30.0	0.0	6.0	7.0	10.9	5.1	2.7	.18
30.0	35.0	0.0	7.0	7.0	9.9	3.5	3.9	.08
31.4	0.0	0.0	12.1	20.1	20.6	3.4	1.1	.49
31.4	5.0	0.0	12.7	19.3	19.3	3.6	2.2	.39
31.4	10.0	0.0	13.6	18.3	18.6	3.9	7.7	.26
31.4	15.0	0.0	14.1	16.3	16.4	2.8	7.7	.25
31.4	20.0	0.0	14.7	15.9	15.9	2.8	7.7	.21
31.4	25.0	0.0	14.4	15.0	15.9	2.1	7.7	.12
31.4	30.0	0.0	15.4	15.0	15.9	1.1	3.3	.05
31.4	35.0	0.0	15.9	15.0	15.9	1.1	3.3	.04
110.9	0.0	0.0	10.7	18.7	23.5	2.2	5.7	.27
110.9	5.0	0.0	12.2	17.4	22.0	1.1	4.4	.20
110.9	10.0	0.0	11.7	16.4	21.4	1.1	2.9	.13
110.9	15.0	0.0	11.5	15.0	22.7	1.1	2.9	.12
110.9	20.0	0.0	11.1	15.0	21.6	1.1	2.7	.10
110.9	25.0	0.0	0.0	15.0	0.0	1.4	1.6	.05
110.9	30.0	0.0	0.0	15.6	0.0	1.4	1.1	.03
110.9	35.0	0.0	0.0	18.1	0.0	1.4	1.1	.02

RUN NUMBER = 98-2  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 7.0  
 SOURCE FLOW RATE (CCS) = 300.0  
 VELOCITY (CM/S) AT 2.1 CM = 28.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
70.0	0.0	0.0	1.00	9.1	55.2	26.0	49.5	22.90
70.0	5.0	0.0	1.00	9.0	45.0	27.3	50.4	22.90
70.0	10.0	0.0	2.00	8.0	31.9	23.0	45.4	22.02
70.0	15.0	0.0	3.00	7.0	17.2	21.0	41.8	11.50
70.0	20.0	0.0	4.44	6.0	16.9	17.0	36.9	1.31
70.0	25.0	0.0	5.00	5.0	16.0	13.0	29.0	0.50
70.0	30.0	0.0	7.00	4.0	14.7	10.0	24.0	0.00
70.0	35.0	0.0	8.00	3.0	15.0	9.6	22.3	0.30
91.4	0.0	0.0	6.66	12.0	33.7	6.6	16.0	0.00
91.4	5.0	0.0	6.66	11.0	19.6	6.6	16.0	0.30
91.4	10.0	0.0	6.66	11.0	17.6	6.4	15.6	0.44
91.4	15.0	0.0	7.77	12.0	17.6	6.4	15.6	0.44
91.4	20.0	0.0	7.77	13.0	17.1	6.4	15.1	0.37
91.4	25.0	0.0	8.88	13.0	18.0	4.4	11.1	0.31
91.4	30.0	0.0	8.88	13.0	18.0	4.4	10.1	0.20
91.4	35.0	0.0	9.99	13.0	19.9	3.0	9.6	0.41
110.0	0.0	0.0	11.00	18.0	27.0	22.0	70.0	0.20
110.0	5.0	0.0	11.00	17.0	25.0	22.0	70.0	0.50
110.0	10.0	0.0	14.00	17.0	22.6	22.1	55.5	0.20
110.0	15.0	0.0	14.00	18.0	23.0	23.0	60.0	0.20
110.0	20.0	0.0	15.00	19.0	24.0	24.0	50.0	0.21
110.0	25.0	0.0	15.00	14.0	22.0	14.0	40.0	0.77
110.0	30.0	0.0	15.00	16.0	21.6	11.6	40.0	0.50
110.0	35.0	0.0	16.00	16.0	22.0	11.0	50.0	0.40

RUN NUMBER = 90-2  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.638  
 SOURCE TIME DURATION (SEC) = 100.0  
 SOURCE FLOW RATE (CCS) = 300.0  
 VELOCITY (CM/S) AT 2.1 CM = 20.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	COND. FIELD	OBSERVE (X-SEC)
10000000000000000000	0.0	0.0	9.4	9.4	54.1	2	4	0
10000000000000000000	0.0	0.0	11.6	11.6	42.1	2	4	0
10000000000000000000	10.0	0.0	9.0	9.0	20.3	2	4	0
10000000000000000000	11.0	0.0	11.7	11.7	20.1	2	4	0
10000000000000000000	12.0	0.0	11.1	11.1	18.7	2	4	0
10000000000000000000	13.0	0.0	12.2	12.2	19.3	2	4	0
10000000000000000000	14.0	0.0	12.7	12.7	19.0	2	4	0
10000000000000000000	15.0	0.0	13.1	13.1	16.7	2	4	0
10000000000000000000	16.0	0.0	14.4	14.4	22.0	2	4	0
10000000000000000000	17.0	0.0	14.4	14.4	22.0	2	4	0
10000000000000000000	18.0	0.0	15.0	15.0	24.4	2	4	0
10000000000000000000	19.0	0.0	15.5	15.5	25.0	2	4	0
10000000000000000000	20.0	0.0	16.0	16.0	23.5	2	4	0
10000000000000000000	21.0	0.0	17.7	17.7	30.0	2	4	0
10000000000000000000	22.0	0.0	18.0	18.0	24.4	2	4	0
10000000000000000000	23.0	0.0	19.1	19.1	24.4	2	4	0
10000000000000000000	24.0	0.0	20.0	20.0	25.0	2	4	0
10000000000000000000	25.0	0.0	21.1	21.1	27.7	2	4	0
10000000000000000000	26.0	0.0	22.0	22.0	25.0	2	4	0
10000000000000000000	27.0	0.0	23.0	23.0	26.6	2	4	0
10000000000000000000	28.0	0.0	24.4	24.4	27.7	2	4	0
10000000000000000000	29.0	0.0	25.0	25.0	28.0	2	4	0
10000000000000000000	30.0	0.0	26.6	26.6	30.0	2	4	0
10000000000000000000	31.0	0.0	27.7	27.7	31.1	2	4	0
10000000000000000000	32.0	0.0	29.0	29.0	33.3	2	4	0
10000000000000000000	33.0	0.0	30.0	30.0	32.0	2	4	0
10000000000000000000	34.0	0.0	31.1	31.1	33.3	2	4	0
10000000000000000000	35.0	0.0	32.0	32.0	34.4	2	4	0
10000000000000000000	36.0	0.0	33.3	33.3	36.6	2	4	0
10000000000000000000	37.0	0.0	34.4	34.4	37.7	2	4	0
10000000000000000000	38.0	0.0	35.0	35.0	38.0	2	4	0
10000000000000000000	39.0	0.0	36.6	36.6	40.0	2	4	0
10000000000000000000	40.0	0.0	37.7	37.7	41.1	2	4	0
10000000000000000000	41.0	0.0	39.0	39.0	43.3	2	4	0
10000000000000000000	42.0	0.0	40.0	40.0	42.0	2	4	0
10000000000000000000	43.0	0.0	41.1	41.1	43.3	2	4	0
10000000000000000000	44.0	0.0	42.0	42.0	44.4	2	4	0
10000000000000000000	45.0	0.0	43.3	43.3	46.6	2	4	0
10000000000000000000	46.0	0.0	44.4	44.4	47.7	2	4	0
10000000000000000000	47.0	0.0	45.0	45.0	48.0	2	4	0
10000000000000000000	48.0	0.0	46.6	46.6	50.0	2	4	0
10000000000000000000	49.0	0.0	47.7	47.7	51.1	2	4	0
10000000000000000000	50.0	0.0	49.0	49.0	53.3	2	4	0
10000000000000000000	51.0	0.0	50.0	50.0	52.0	2	4	0
10000000000000000000	52.0	0.0	51.1	51.1	53.3	2	4	0
10000000000000000000	53.0	0.0	52.0	52.0	54.4	2	4	0
10000000000000000000	54.0	0.0	53.3	53.3	56.6	2	4	0
10000000000000000000	55.0	0.0	54.4	54.4	57.7	2	4	0
10000000000000000000	56.0	0.0	55.0	55.0	58.0	2	4	0
10000000000000000000	57.0	0.0	56.6	56.6	60.0	2	4	0
10000000000000000000	58.0	0.0	57.7	57.7	61.1	2	4	0
10000000000000000000	59.0	0.0	59.0	59.0	63.3	2	4	0
10000000000000000000	60.0	0.0	60.0	60.0	62.0	2	4	0
10000000000000000000	61.0	0.0	61.1	61.1	63.3	2	4	0
10000000000000000000	62.0	0.0	62.0	62.0	64.4	2	4	0
10000000000000000000	63.0	0.0	63.3	63.3	66.6	2	4	0
10000000000000000000	64.0	0.0	64.4	64.4	67.7	2	4	0
10000000000000000000	65.0	0.0	65.0	65.0	68.0	2	4	0
10000000000000000000	66.0	0.0	66.6	66.6	70.0	2	4	0
10000000000000000000	67.0	0.0	67.7	67.7	71.1	2	4	0
10000000000000000000	68.0	0.0	69.0	69.0	73.3	2	4	0
10000000000000000000	69.0	0.0	70.0	70.0	72.0	2	4	0
10000000000000000000	70.0	0.0	71.1	71.1	73.3	2	4	0
10000000000000000000	71.0	0.0	72.0	72.0	74.4	2	4	0
10000000000000000000	72.0	0.0	73.3	73.3	76.6	2	4	0
10000000000000000000	73.0	0.0	74.4	74.4	77.7	2	4	0
10000000000000000000	74.0	0.0	75.0	75.0	78.0	2	4	0
10000000000000000000	75.0	0.0	76.6	76.6	80.0	2	4	0
10000000000000000000	76.0	0.0	77.7	77.7	81.1	2	4	0
10000000000000000000	77.0	0.0	79.0	79.0	83.3	2	4	0
10000000000000000000	78.0	0.0	80.0	80.0	82.0	2	4	0
10000000000000000000	79.0	0.0	81.1	81.1	83.3	2	4	0
10000000000000000000	80.0	0.0	82.0	82.0	84.4	2	4	0
10000000000000000000	81.0	0.0	83.3	83.3	86.6	2	4	0
10000000000000000000	82.0	0.0	84.4	84.4	87.7	2	4	0
10000000000000000000	83.0	0.0	85.0	85.0	88.0	2	4	0
10000000000000000000	84.0	0.0	86.6	86.6	90.0	2	4	0
10000000000000000000	85.0	0.0	87.7	87.7	91.1	2	4	0
10000000000000000000	86.0	0.0	89.0	89.0	93.3	2	4	0
10000000000000000000	87.0	0.0	90.0	90.0	92.0	2	4	0
10000000000000000000	88.0	0.0	91.1	91.1	93.3	2	4	0
10000000000000000000	89.0	0.0	92.0	92.0	94.4	2	4	0
10000000000000000000	90.0	0.0	93.3	93.3	96.6	2	4	0
10000000000000000000	91.0	0.0	94.4	94.4	97.7	2	4	0
10000000000000000000	92.0	0.0	95.0	95.0	98.0	2	4	0
10000000000000000000	93.0	0.0	96.6	96.6	100.0	2	4	0
10000000000000000000	94.0	0.0	97.7	97.7	101.1	2	4	0
10000000000000000000	95.0	0.0	99.0	99.0	103.3	2	4	0
10000000000000000000	96.0	0.0	100.0	100.0	102.0	2	4	0



RUN NUMBER

= 98-5

SOURCE DIA. (CM) = 15.00
SOURCE SPECIFIC GRAVITY = 1.38
SOURCE TIME DURATION (SEC) = 40.0
SOURCE FLOW RATE (CCS) = 300.0
VELOCITY (CM/S) AT 2.1 CM = 20.0

Table with columns: POSITION (CM), ARRIVAL TIME (SEC), PEAK TIME (SEC), END TIME (SEC), PEAK MODEL, CONC. FIELD, DOSEAGE (X-SEC). It contains multiple rows of numerical data organized in columns.

RUN NUMBER = 98-5  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 40.0  
 SOURCE FLOW RATE (CCS) = 300.0  
 VELOCITY (CM/SEC) AT 2.1 CM = 28.0

S (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSE (X-SEC)
100	35.0	0.0	17.5	35.3	52.0	3.0	9.9	.96
100	40.0	0.0	18.2	36.3	49.0	3.0	9.9	.72
100	45.0	0.0	24.0	37.0	49.1	2.7	9.9	.40
100	50.0	0.0	24.7	37.9	47.6	2.2	9.9	.30
100	55.0	0.0	34.4	37.6	40.9	2.1	9.9	.19
100	60.0	0.0	37.9	36.0	39.9	1.1	9.9	.10
100	65.0	0.0	0.0	33.0	0.0	.3	9.9	.02
100	70.0	0.0	0.0	100.1	0.0	.1	9.9	.01







RUN NUMBER = 99-3  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 10.0  
 SOURCE FLOW RATE (CCS) = 300.0  
 VELOCITY (CM/S) AT 2.1 CM = 40.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
0.0	0.0	0.0	1.4	9.1	4.5	3	0.4	3.0
0.0	0.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	1.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	1.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	2.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	2.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	3.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	3.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	4.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	4.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	5.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	5.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	6.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	6.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	7.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	7.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	8.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	8.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	9.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	9.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	10.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	10.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	11.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	11.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	12.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	12.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	13.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	13.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	14.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	14.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	15.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	15.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	16.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	16.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	17.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	17.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	18.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	18.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	19.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	19.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	20.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	20.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	21.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	21.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	22.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	22.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	23.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	23.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	24.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	24.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	25.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	25.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	26.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	26.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	27.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	27.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	28.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	28.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	29.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	29.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	30.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	30.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	31.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	31.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	32.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	32.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	33.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	33.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	34.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	34.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	35.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	35.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	36.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	36.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	37.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	37.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	38.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	38.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	39.0	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	39.5	0.0	1.1	5.5	3.3	3	0.4	2.2
0.0	40.0	0.0	1.1	5.5	3.3	3	0.4	2.2

RUN NUMBER = 99-4  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.300  
 SOURCE TIME DURATION (SEC) = 10.0  
 SOURCE FLOW RATE (GSS) = 300.0  
 VELOCITY (CM/S) AT 2.1 CM = 40.0

	POSITION X (CM)	Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
1	0.0	0.0	0.0	1.4	0.0	1.1	000000	0.000000	4.100
100	0.0	10.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	15.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	20.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	25.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	30.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	35.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	40.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	45.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	50.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	55.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	60.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	65.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	70.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	75.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	80.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	85.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	90.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	95.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100
100	0.0	100.0	0.0	1.4	1.2	1.1	000000	0.000000	4.100



RUN NUMBER = 100-1  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 4.0  
 SOURCE FLOW RATE (CCS) = 100.0  
 VELOCITY (CM/9) AT 2.1 CM = 33.5

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
30.5	0.0	0.0	1.6	6.1	29.9	7.6	10.2	.76
30.5	5.0	0.0	2.1	6.1	26.0	7.1	17.1	.79
30.5	10.0	0.0	3.0	5.4	18.4	5.1	12.7	.43
30.5	15.0	0.0	4.4	5.0	14.3	2.7	7.0	.11
30.5	20.0	0.0	0.0	4.3	0.0	.6	1.6	.02
30.5	25.0	0.0	0.0	.1	0.0	.1	.3	.01
30.5	30.0	0.0	0.0	.1	0.0	.1	.3	.01
30.5	35.0	0.0	0.0	16.1	0.0	.1	.3	.02
91.4	0.0	0.0	5.6	7.9	11.3	2.0	5.2	.19
91.4	5.0	0.0	7.3	9.5	11.0	1.7	4.5	.19
91.4	10.0	0.0	7.8	9.9	13.6	1.7	4.5	.18
91.4	15.0	0.0	8.6	11.3	13.0	1.7	4.5	.15
91.4	20.0	0.0	9.9	12.8	13.6	1.5	4.0	.11
91.4	25.0	0.0	14.0	13.7	14.9	1.2	3.3	.07
91.4	30.0	0.0	0.0	14.1	0.0	.5	1.3	.02
91.4	35.0	0.0	0.0	14.6	0.0	.4	.7	.00

RUN NUMBER = 100-2  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 7.0  
 SOURCE FLOW RATE (CCS) = 100.0  
 VELOCITY (CM/S) AT 2.1 CM = 33.5

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (% - SEC)
30.5	0.0	0.0	0.9	0.4	36.0	11.0	26.6	1.10
30.5	5.0	0.0	0.9	0.1	34.4	11.5	26.0	1.20
30.5	10.0	0.0	0.9	7.1	33.5	9.7	22.5	0.50
30.5	15.0	0.0	0.5	7.5	33.5	6.9	16.7	0.20
30.5	20.0	0.0	0.5	0.7	9.9	9.9	7.5	0.50
30.5	25.0	0.0	0.0	9.1	0.0	.1	.3	0.00
30.5	30.0	0.0	0.0	53.6	0.0	.1	.3	0.00
30.5	35.0	0.0	0.0	48.0	0.0	.1	.3	0.00
91.4	0.0	0.0	6.6	12.3	17.0	3.1	0.0	0.1
91.4	5.0	0.0	6.4	12.3	20.0	3.7	9.4	0.40
91.4	10.0	0.0	7.2	12.0	19.0	3.0	9.6	0.40
91.4	15.0	0.0	8.2	11.4	19.9	3.5	8.9	0.30
91.4	20.0	0.0	8.6	11.6	20.9	2.6	6.7	0.1
91.4	25.0	0.0	9.2	11.1	14.1	2.2	5.7	0.1
91.4	30.0	0.0	10.3	12.2	12.9	2.0	5.2	0.07
91.4	35.0	0.0	11.4	11.4	11.6	1.1	2.9	0.02

RUN NUMBER = 100-3  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 10.0  
 SOURCE FLOW RATE (CCS) = 100.0  
 VELOCITY (CM/RS) AT 2.1 CM = 33.3

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
00.0	0.0	0.0	0.0	0.0	0.0	12.4	27.7	0.0
00.0	5.0	0.0	11.4	11.1	00.3	14.3	21.1	0.0
00.0	10.0	0.0	23.4	11.3	31.6	10.3	29.3	1.0
00.0	15.0	0.0	4.3	11.5	17.1	11.5	26.0	0.1
00.0	20.0	0.0	8.6	11.1	14.2	7.0	10.6	0.2
00.0	25.0	0.0	0.0	4.5	0.0	0.0	1.1	0.3
00.0	30.0	0.0	0.0	8.6	0.0	0.0	1.1	0.2
01.4	0.0	0.0	7.1	14.6	23.6	3.9	9.9	0.0
01.4	5.0	0.0	7.1	12.9	20.0	3.0	9.9	0.0
01.4	10.0	0.0	7.3	13.7	19.0	4.0	10.0	0.0
01.4	15.0	0.0	7.3	14.7	20.0	4.0	10.1	0.0
01.4	20.0	0.0	7.3	14.7	19.0	3.0	7.7	0.0
01.4	25.0	0.0	11.2	12.2	18.6	2.7	7.7	0.0
01.4	30.0	0.0	12.0	13.1	18.0	1.1	4.0	0.0



RUN NUMBER = 100-4  
SOURCE DIA. (CM) = 15.00  
SOURCE SPECIFIC GRAVITY = 1.300  
SOURCE TIME DURATION (SECS) = 15.0  
SOURCE FLOW RATE (CCS) = 100.0  
VELOCITY (CM/SS) AT 2.1 CM = 52.5

	POSITION			ARRIVAL	PEAK	END	PEAK	CONC.	DOSE
	X	Y	Z	TIME	TIME	TIME	MODEL	FIELD	(X-SEC)
	(CM)	(CM)	(CM)	(SECS)	(SECS)	(SECS)			
1000000	0.0	0.0	0.0	1.2	13.4	45.1	11	0.0	2.17
1000000	0.0	0.0	0.0	1.4	16.9	50.0	11	0.0	2.16
1000000	10.0	0.0	0.0	2.4	17.2	50.0	11	0.0	2.16
1000000	20.0	0.0	0.0	4.4	16.6	49.9	11	0.0	2.16
1000000	30.0	0.0	0.0	10.0	14.1	49.7	11	0.0	2.16
1000000	40.0	0.0	0.0	12.1	12.2	49.5	11	0.0	2.16
1000000	50.0	0.0	0.0	15.1	11.6	49.4	11	0.0	2.16
1000000	60.0	0.0	0.0	16.6	11.1	49.4	11	0.0	2.16
1000000	70.0	0.0	0.0	16.9	10.9	49.4	11	0.0	2.16
1000000	80.0	0.0	0.0	17.1	10.9	49.4	11	0.0	2.16
1000000	90.0	0.0	0.0	17.4	10.9	49.4	11	0.0	2.16
1000000	100.0	0.0	0.0	17.6	10.9	49.4	11	0.0	2.16
1000000	110.0	0.0	0.0	17.6	10.9	49.4	11	0.0	2.16
1000000	120.0	0.0	0.0	17.7	10.9	49.4	11	0.0	2.16
1000000	130.0	0.0	0.0	17.7	10.9	49.4	11	0.0	2.16
1000000	140.0	0.0	0.0	17.8	10.9	49.4	11	0.0	2.16
1000000	150.0	0.0	0.0	17.8	10.9	49.4	11	0.0	2.16
1000000	160.0	0.0	0.0	17.9	10.9	49.4	11	0.0	2.16
1000000	170.0	0.0	0.0	17.9	10.9	49.4	11	0.0	2.16
1000000	180.0	0.0	0.0	18.0	10.9	49.4	11	0.0	2.16
1000000	190.0	0.0	0.0	18.0	10.9	49.4	11	0.0	2.16
1000000	200.0	0.0	0.0	18.1	10.9	49.4	11	0.0	2.16
1000000	210.0	0.0	0.0	18.1	10.9	49.4	11	0.0	2.16
1000000	220.0	0.0	0.0	18.2	10.9	49.4	11	0.0	2.16
1000000	230.0	0.0	0.0	18.2	10.9	49.4	11	0.0	2.16
1000000	240.0	0.0	0.0	18.3	10.9	49.4	11	0.0	2.16
1000000	250.0	0.0	0.0	18.3	10.9	49.4	11	0.0	2.16
1000000	260.0	0.0	0.0	18.4	10.9	49.4	11	0.0	2.16
1000000	270.0	0.0	0.0	18.4	10.9	49.4	11	0.0	2.16
1000000	280.0	0.0	0.0	18.5	10.9	49.4	11	0.0	2.16
1000000	290.0	0.0	0.0	18.5	10.9	49.4	11	0.0	2.16
1000000	300.0	0.0	0.0	18.6	10.9	49.4	11	0.0	2.16
1000000	310.0	0.0	0.0	18.6	10.9	49.4	11	0.0	2.16
1000000	320.0	0.0	0.0	18.7	10.9	49.4	11	0.0	2.16
1000000	330.0	0.0	0.0	18.7	10.9	49.4	11	0.0	2.16
1000000	340.0	0.0	0.0	18.8	10.9	49.4	11	0.0	2.16
1000000	350.0	0.0	0.0	18.8	10.9	49.4	11	0.0	2.16
1000000	360.0	0.0	0.0	18.9	10.9	49.4	11	0.0	2.16
1000000	370.0	0.0	0.0	18.9	10.9	49.4	11	0.0	2.16
1000000	380.0	0.0	0.0	19.0	10.9	49.4	11	0.0	2.16
1000000	390.0	0.0	0.0	19.0	10.9	49.4	11	0.0	2.16
1000000	400.0	0.0	0.0	19.1	10.9	49.4	11	0.0	2.16
1000000	410.0	0.0	0.0	19.1	10.9	49.4	11	0.0	2.16
1000000	420.0	0.0	0.0	19.2	10.9	49.4	11	0.0	2.16
1000000	430.0	0.0	0.0	19.2	10.9	49.4	11	0.0	2.16
1000000	440.0	0.0	0.0	19.3	10.9	49.4	11	0.0	2.16
1000000	450.0	0.0	0.0	19.3	10.9	49.4	11	0.0	2.16
1000000	460.0	0.0	0.0	19.4	10.9	49.4	11	0.0	2.16
1000000	470.0	0.0	0.0	19.4	10.9	49.4	11	0.0	2.16
1000000	480.0	0.0	0.0	19.5	10.9	49.4	11	0.0	2.16
1000000	490.0	0.0	0.0	19.5	10.9	49.4	11	0.0	2.16
1000000	500.0	0.0	0.0	19.6	10.9	49.4	11	0.0	2.16
1000000	510.0	0.0	0.0	19.6	10.9	49.4	11	0.0	2.16
1000000	520.0	0.0	0.0	19.7	10.9	49.4	11	0.0	2.16
1000000	530.0	0.0	0.0	19.7	10.9	49.4	11	0.0	2.16
1000000	540.0	0.0	0.0	19.8	10.9	49.4	11	0.0	2.16
1000000	550.0	0.0	0.0	19.8	10.9	49.4	11	0.0	2.16
1000000	560.0	0.0	0.0	19.9	10.9	49.4	11	0.0	2.16
1000000	570.0	0.0	0.0	19.9	10.9	49.4	11	0.0	2.16
1000000	580.0	0.0	0.0	20.0	10.9	49.4	11	0.0	2.16
1000000	590.0	0.0	0.0	20.0	10.9	49.4	11	0.0	2.16
1000000	600.0	0.0	0.0	20.1	10.9	49.4	11	0.0	2.16
1000000	610.0	0.0	0.0	20.1	10.9	49.4	11	0.0	2.16
1000000	620.0	0.0	0.0	20.2	10.9	49.4	11	0.0	2.16
1000000	630.0	0.0	0.0	20.2	10.9	49.4	11	0.0	2.16
1000000	640.0	0.0	0.0	20.3	10.9	49.4	11	0.0	2.16
1000000	650.0	0.0	0.0	20.3	10.9	49.4	11	0.0	2.16
1000000	660.0	0.0	0.0	20.4	10.9	49.4	11	0.0	2.16
1000000	670.0	0.0	0.0	20.4	10.9	49.4	11	0.0	2.16
1000000	680.0	0.0	0.0	20.5	10.9	49.4	11	0.0	2.16
1000000	690.0	0.0	0.0	20.5	10.9	49.4	11	0.0	2.16
1000000	700.0	0.0	0.0	20.6	10.9	49.4	11	0.0	2.16
1000000	710.0	0.0	0.0	20.6	10.9	49.4	11	0.0	2.16
1000000	720.0	0.0	0.0	20.7	10.9	49.4	11	0.0	2.16
1000000	730.0	0.0	0.0	20.7	10.9	49.4	11	0.0	2.16
1000000	740.0	0.0	0.0	20.8	10.9	49.4	11	0.0	2.16
1000000	750.0	0.0	0.0	20.8	10.9	49.4	11	0.0	2.16
1000000	760.0	0.0	0.0	20.9	10.9	49.4	11	0.0	2.16
1000000	770.0	0.0	0.0	20.9	10.9	49.4	11	0.0	2.16
1000000	780.0	0.0	0.0	21.0	10.9	49.4	11	0.0	2.16
1000000	790.0	0.0	0.0	21.0	10.9	49.4	11	0.0	2.16
1000000	800.0	0.0	0.0	21.1	10.9	49.4	11	0.0	2.16
1000000	810.0	0.0	0.0	21.1	10.9	49.4	11	0.0	2.16
1000000	820.0	0.0	0.0	21.2	10.9	49.4	11	0.0	2.16
1000000	830.0	0.0	0.0	21.2	10.9	49.4	11	0.0	2.16
1000000	840.0	0.0	0.0	21.3	10.9	49.4	11	0.0	2.16
1000000	850.0	0.0	0.0	21.3	10.9	49.4	11	0.0	2.16
1000000	860.0	0.0	0.0	21.4	10.9	49.4	11	0.0	2.16
1000000	870.0	0.0	0.0	21.4	10.9	49.4	11	0.0	2.16
1000000	880.0	0.0	0.0	21.5	10.9	49.4	11	0.0	2.16
1000000	890.0	0.0	0.0	21.5	10.9	49.4	11	0.0	2.16
1000000	900.0	0.0	0.0	21.6	10.9	49.4	11	0.0	2.16
1000000	910.0	0.0	0.0	21.6	10.9	49.4	11	0.0	2.16
1000000	920.0	0.0	0.0	21.7	10.9	49.4	11	0.0	2.16
1000000	930.0	0.0	0.0	21.7	10.9	49.4	11	0.0	2.16
1000000	940.0	0.0	0.0	21.8	10.9	49.4	11	0.0	2.16
1000000	950.0	0.0	0.0	21.8	10.9	49.4	11	0.0	2.16
1000000	960.0	0.0	0.0	21.9	10.9	49.4	11	0.0	2.16
1000000	970.0	0.0	0.0	21.9	10.9	49.4	11	0.0	2.16
1000000	980.0	0.0	0.0	22.0	10.9	49.4	11	0.0	2.16
1000000	990.0	0.0	0.0	22.0	10.9	49.4	11	0.0	2.16
1000000	1000.0	0.0	0.0	22.1	10.9	49.4	11	0.0	2.16

RUN NUMBER = 100-5  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.28  
 SOURCE TIME DURATION (SEC) = 40.0  
 SOURCE FLOW RATE (CCS) = 100.0  
 VELOCITY (CM/RS) AT 2.1 CM = 33.5

X (CM)	POSITION			ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSAGE (X-SEC)
	Y (CM)	Z (CM)							
300	0	0	0	10	26	77	15	3	51
300	5	0	0	10	27	77	16	3	50
300	10	0	0	10	28	77	14	4	50
300	15	0	0	10	29	77	13	4	50
300	20	0	0	10	30	77	11	0	50
300	25	0	0	10	31	77	0	0	50
300	30	0	0	10	32	77	0	0	50
300	35	0	0	10	33	77	0	0	50
300	40	0	0	10	34	77	0	0	50
300	45	0	0	10	35	77	0	0	50
300	50	0	0	10	36	77	0	0	50
300	55	0	0	10	37	77	0	0	50
300	60	0	0	10	38	77	0	0	50
300	65	0	0	10	39	77	0	0	50
300	70	0	0	10	40	77	0	0	50
300	75	0	0	10	41	77	0	0	50
300	80	0	0	10	42	77	0	0	50
300	85	0	0	10	43	77	0	0	50
300	90	0	0	10	44	77	0	0	50
300	95	0	0	10	45	77	0	0	50
300	100	0	0	10	46	77	0	0	50
300	105	0	0	10	47	77	0	0	50
300	110	0	0	10	48	77	0	0	50
300	115	0	0	10	49	77	0	0	50
300	120	0	0	10	50	77	0	0	50
300	125	0	0	10	51	77	0	0	50
300	130	0	0	10	52	77	0	0	50
300	135	0	0	10	53	77	0	0	50
300	140	0	0	10	54	77	0	0	50
300	145	0	0	10	55	77	0	0	50
300	150	0	0	10	56	77	0	0	50
300	155	0	0	10	57	77	0	0	50
300	160	0	0	10	58	77	0	0	50
300	165	0	0	10	59	77	0	0	50
300	170	0	0	10	60	77	0	0	50
300	175	0	0	10	61	77	0	0	50
300	180	0	0	10	62	77	0	0	50
300	185	0	0	10	63	77	0	0	50
300	190	0	0	10	64	77	0	0	50
300	195	0	0	10	65	77	0	0	50
300	200	0	0	10	66	77	0	0	50
300	205	0	0	10	67	77	0	0	50
300	210	0	0	10	68	77	0	0	50
300	215	0	0	10	69	77	0	0	50
300	220	0	0	10	70	77	0	0	50
300	225	0	0	10	71	77	0	0	50
300	230	0	0	10	72	77	0	0	50
300	235	0	0	10	73	77	0	0	50
300	240	0	0	10	74	77	0	0	50
300	245	0	0	10	75	77	0	0	50
300	250	0	0	10	76	77	0	0	50
300	255	0	0	10	77	77	0	0	50
300	260	0	0	10	78	77	0	0	50
300	265	0	0	10	79	77	0	0	50
300	270	0	0	10	80	77	0	0	50
300	275	0	0	10	81	77	0	0	50
300	280	0	0	10	82	77	0	0	50
300	285	0	0	10	83	77	0	0	50
300	290	0	0	10	84	77	0	0	50
300	295	0	0	10	85	77	0	0	50
300	300	0	0	10	86	77	0	0	50
300	305	0	0	10	87	77	0	0	50
300	310	0	0	10	88	77	0	0	50
300	315	0	0	10	89	77	0	0	50
300	320	0	0	10	90	77	0	0	50
300	325	0	0	10	91	77	0	0	50
300	330	0	0	10	92	77	0	0	50
300	335	0	0	10	93	77	0	0	50
300	340	0	0	10	94	77	0	0	50
300	345	0	0	10	95	77	0	0	50
300	350	0	0	10	96	77	0	0	50
300	355	0	0	10	97	77	0	0	50
300	360	0	0	10	98	77	0	0	50
300	365	0	0	10	99	77	0	0	50
300	370	0	0	10	100	77	0	0	50

RUN NUMBER = 101-1  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 12.0  
 SOURCE FLOW RATE (CCS) = 170.0  
 VELOCITY (CM/S) AT 2.1 CM = 65.0

X (CM)	POSITION			ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
	Y (CM)	Z (CM)							
30.5	0.0	0.0		.5	2.3	7.9	3.5	8.9	.17
30.5	5.0	0.0		.7	2.0	5.8	2.4	8.2	.15
30.5	10.0	0.0		1.4	1.6	2.0	1.0	4.7	.04
30.5	15.0	0.0		0.0	1.1	0.0	.2	.5	.01
30.5	20.0	0.0		0.0	22.1	0.0	.1	.3	.01
30.5	25.0	0.0		0.0	11.4	0.0	.4	.3	.01
30.5	30.0	0.0		0.0	5.6	0.0	.1	.3	.01
30.5	35.0	0.0		0.0	8.4	0.0	.4	.3	0.00

RUN NUMBER = 101-2  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 4.0  
 SOURCE FLOW RATE (CCS) = 170.0  
 VELOCITY (CM/S) AT 2.1 CM = 65.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
30.5	0.0	0.0	.4	3.9	15.2	5.2	12.9	.29
30.5	5.0	0.0	.8	4.4	15.2	4.8	12.0	.27
30.5	10.0	0.0	4.1	4.3	6.4	2.8	7.2	.07
30.5	15.0	0.0	0.0	3.9	0.0	.2	.5	.01
30.5	20.0	0.0	0.0	3.9	0.0	0.0	0.0	.01
30.5	25.0	0.0	0.0	3.9	0.0	.1	.3	.01
30.5	30.0	0.0	0.0	66.4	0.0	.1	.3	.01
30.5	35.0	0.0	0.0	57.1	0.0	.1	.3	.01
91.4	0.0	0.0	5.4	5.5	6.7	1.3	3.4	.10
91.4	5.0	0.0	5.4	5.7	5.7	1.1	2.9	.10
91.4	10.0	0.0	0.0	7.6	0.0	.7	1.9	.07
91.4	15.0	0.0	0.0	7.6	0.0	.7	1.9	.05
91.4	20.0	0.0	0.0	3.6	0.0	.5	1.3	.02
91.4	25.0	0.0	0.0	3.6	0.0	.4	1.1	.02
91.4	30.0	0.0	0.0	71.9	0.0	.1	.3	.01
91.4	35.0	0.0	0.0	79.3	0.0	.1	.3	.01

RUN NUMBER = 101-3  
 SOURCE DIA (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 177.0  
 SOURCE FLOW RATE (CCS) = 170.0  
 VELOCITY (CM/RS) AT 2.1 CM = 65.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEL	CONC. FIELD	DOSEAGE (X-SEC)
30	0.0	0.0	.4	7.6	25.9	10.1	23.3	.050
30	5.0	0.0	1.2	7.1	24.0	10.4	23.3	.050
30	10.0	0.0	4.9	7.3	9.4	4.9	19.1	.140
30	15.0	0.0	0.0	6.1	0.0	.2	33.5	.020
30	20.0	0.0	0.0	0.0	0.0	.1	33.5	.010
30	25.0	0.0	0.0	0.0	0.0	.1	33.5	.010
30	30.0	0.0	0.0	0.0	0.0	.1	33.5	.010
30	35.0	0.0	0.0	0.0	0.0	.1	33.5	.010
91	0.0	0.0	4.1	9.0	10.7	3.6	29.3	.120
91	5.0	0.0	0.0	0.0	10.7	0.0	29.3	.120
91	10.0	0.0	0.0	0.0	10.0	0.0	29.3	.120
91	15.0	0.0	0.0	0.0	10.0	0.0	29.3	.120
91	20.0	0.0	0.0	0.0	0.0	1.0	29.3	.050
91	25.0	0.0	0.0	0.0	0.0	0.0	29.3	.050
91	30.0	0.0	0.0	0.0	0.0	0.0	29.3	.050
91	35.0	0.0	0.0	0.0	0.0	0.0	29.3	.050

RUN NUMBER = 101-4  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 10.0  
 SOURCE FLOW RATE (CCS) = 170.0  
 VELOCITY (CM/S) AT 2.1 CM = 65.0

	POSITION		ARRIVAL	PEAK	END	PEAK	CONC.	DOSEAGE
X	Y	Z	TIME	TIME	TIME	MODEL	FIELD	(X-SEC)
(CM)	(CM)	(CM)	(SEC)	(SEC)	(SEC)			
30.0	0.0	0.0	2.5	10.4	26.1	11.0	206.6	.8
30.0	5.0	0.0	2.5	7.9	27.5	13.0	206.6	.7
30.0	10.0	0.0	2.5	8.0	19.9	9.1	206.6	.6
30.0	15.0	0.0	2.5	7.7	10.3	2.7	206.6	.3
30.0	20.0	0.0	0.0	8.2	0.0	1.1	206.6	.1
30.0	25.0	0.0	0.0	0.0	0.0	1.1	206.6	.1
30.0	30.0	0.0	0.0	0.0	0.0	1.1	206.6	.1
30.0	35.0	0.0	0.0	2.3	0.0	1.1	206.6	.1
31.4	0.0	0.0	5.5	11.9	13.1	2.5	206.6	.1
31.4	5.0	0.0	4.4	11.4	13.1	2.5	206.6	.1
31.4	10.0	0.0	4.4	7.0	13.0	2.5	206.6	.1
31.4	15.0	0.0	7.7	7.9	12.5	1.6	206.6	.1
31.4	20.0	0.0	12.1	12.1	12.2	1.0	206.6	.1
31.4	25.0	0.0	0.0	7.7	0.0	1.1	206.6	.1
31.4	30.0	0.0	0.0	0.0	0.0	2.2	206.6	.1
31.4	35.0	0.0	0.0	0.0	0.0	1.1	206.6	.1
100	0.0	0.0	12.5	12.5	13.1	1.1	206.6	.1
100	5.0	0.0	12.5	12.5	12.6	1.0	206.6	.1
100	10.0	0.0	0.0	12.1	0.0	2.9	206.6	.4
100	15.0	0.0	0.0	13.1	0.0	0.0	206.6	.4
100	20.0	0.0	0.0	13.9	0.0	0.0	206.6	.4
100	25.0	0.0	0.0	14.4	0.0	1.5	206.6	.1
100	30.0	0.0	0.0	14.4	0.0	3.3	206.6	.1
100	35.0	0.0	0.0	0.0	0.0	1.4	206.6	.1

RUN NUMBER = 101-5  
 SOURCE DIA. (CM) = 15.00  
 SOURCE SPECIFIC GRAVITY = 1.38  
 SOURCE TIME DURATION (SEC) = 40.0  
 SOURCE FLOW RATE (CCS) = 179.0  
 VELOCITY (CM/SEC) AT 2.1 CM = 65.0

X (CM)	POSITION Y (CM)	Z (CM)	ARRIVAL TIME (SEC)	PEAK TIME (SEC)	END TIME (SEC)	PEAK MODEFL	CONC. FIELD	DOSE (X-SEC)
10000	0.0	0.0	1.000	0.000	0.000	11	0.000	1.000
10000	10.0	0.0	1.100	0.000	0.000	11	0.000	1.100
10000	15.0	0.0	1.200	0.000	0.000	11	0.000	1.200
10000	20.0	0.0	1.300	0.000	0.000	11	0.000	1.300
10000	25.0	0.0	1.400	0.000	0.000	11	0.000	1.400
10000	30.0	0.0	1.500	0.000	0.000	11	0.000	1.500
10000	35.0	0.0	1.600	0.000	0.000	11	0.000	1.600
10000	40.0	0.0	1.700	0.000	0.000	11	0.000	1.700
10000	45.0	0.0	1.800	0.000	0.000	11	0.000	1.800
10000	50.0	0.0	1.900	0.000	0.000	11	0.000	1.900
10000	55.0	0.0	2.000	0.000	0.000	11	0.000	2.000
10000	60.0	0.0	2.100	0.000	0.000	11	0.000	2.100
10000	65.0	0.0	2.200	0.000	0.000	11	0.000	2.200
10000	70.0	0.0	2.300	0.000	0.000	11	0.000	2.300
10000	75.0	0.0	2.400	0.000	0.000	11	0.000	2.400
10000	80.0	0.0	2.500	0.000	0.000	11	0.000	2.500
10000	85.0	0.0	2.600	0.000	0.000	11	0.000	2.600
10000	90.0	0.0	2.700	0.000	0.000	11	0.000	2.700
10000	95.0	0.0	2.800	0.000	0.000	11	0.000	2.800
10000	100.0	0.0	2.900	0.000	0.000	11	0.000	2.900
10000	105.0	0.0	3.000	0.000	0.000	11	0.000	3.000
10000	110.0	0.0	3.100	0.000	0.000	11	0.000	3.100
10000	115.0	0.0	3.200	0.000	0.000	11	0.000	3.200
10000	120.0	0.0	3.300	0.000	0.000	11	0.000	3.300
10000	125.0	0.0	3.400	0.000	0.000	11	0.000	3.400
10000	130.0	0.0	3.500	0.000	0.000	11	0.000	3.500
10000	135.0	0.0	3.600	0.000	0.000	11	0.000	3.600
10000	140.0	0.0	3.700	0.000	0.000	11	0.000	3.700
10000	145.0	0.0	3.800	0.000	0.000	11	0.000	3.800
10000	150.0	0.0	3.900	0.000	0.000	11	0.000	3.900
10000	155.0	0.0	4.000	0.000	0.000	11	0.000	4.000
10000	160.0	0.0	4.100	0.000	0.000	11	0.000	4.100
10000	165.0	0.0	4.200	0.000	0.000	11	0.000	4.200
10000	170.0	0.0	4.300	0.000	0.000	11	0.000	4.300
10000	175.0	0.0	4.400	0.000	0.000	11	0.000	4.400
10000	180.0	0.0	4.500	0.000	0.000	11	0.000	4.500
10000	185.0	0.0	4.600	0.000	0.000	11	0.000	4.600
10000	190.0	0.0	4.700	0.000	0.000	11	0.000	4.700
10000	195.0	0.0	4.800	0.000	0.000	11	0.000	4.800
10000	200.0	0.0	4.900	0.000	0.000	11	0.000	4.900
10000	205.0	0.0	5.000	0.000	0.000	11	0.000	5.000
10000	210.0	0.0	5.100	0.000	0.000	11	0.000	5.100
10000	215.0	0.0	5.200	0.000	0.000	11	0.000	5.200
10000	220.0	0.0	5.300	0.000	0.000	11	0.000	5.300
10000	225.0	0.0	5.400	0.000	0.000	11	0.000	5.400
10000	230.0	0.0	5.500	0.000	0.000	11	0.000	5.500
10000	235.0	0.0	5.600	0.000	0.000	11	0.000	5.600
10000	240.0	0.0	5.700	0.000	0.000	11	0.000	5.700
10000	245.0	0.0	5.800	0.000	0.000	11	0.000	5.800
10000	250.0	0.0	5.900	0.000	0.000	11	0.000	5.900
10000	255.0	0.0	6.000	0.000	0.000	11	0.000	6.000
10000	260.0	0.0	6.100	0.000	0.000	11	0.000	6.100
10000	265.0	0.0	6.200	0.000	0.000	11	0.000	6.200
10000	270.0	0.0	6.300	0.000	0.000	11	0.000	6.300
10000	275.0	0.0	6.400	0.000	0.000	11	0.000	6.400
10000	280.0	0.0	6.500	0.000	0.000	11	0.000	6.500
10000	285.0	0.0	6.600	0.000	0.000	11	0.000	6.600
10000	290.0	0.0	6.700	0.000	0.000	11	0.000	6.700
10000	295.0	0.0	6.800	0.000	0.000	11	0.000	6.800
10000	300.0	0.0	6.900	0.000	0.000	11	0.000	6.900
10000	305.0	0.0	7.000	0.000	0.000	11	0.000	7.000
10000	310.0	0.0	7.100	0.000	0.000	11	0.000	7.100
10000	315.0	0.0	7.200	0.000	0.000	11	0.000	7.200
10000	320.0	0.0	7.300	0.000	0.000	11	0.000	7.300
10000	325.0	0.0	7.400	0.000	0.000	11	0.000	7.400
10000	330.0	0.0	7.500	0.000	0.000	11	0.000	7.500
10000	335.0	0.0	7.600	0.000	0.000	11	0.000	7.600
10000	340.0	0.0	7.700	0.000	0.000	11	0.000	7.700
10000	345.0	0.0	7.800	0.000	0.000	11	0.000	7.800
10000	350.0	0.0	7.900	0.000	0.000	11	0.000	7.900
10000	355.0	0.0	8.000	0.000	0.000	11	0.000	8.000
10000	360.0	0.0	8.100	0.000	0.000	11	0.000	8.100
10000	365.0	0.0	8.200	0.000	0.000	11	0.000	8.200
10000	370.0	0.0	8.300	0.000	0.000	11	0.000	8.300
10000	375.0	0.0	8.400	0.000	0.000	11	0.000	8.400
10000	380.0	0.0	8.500	0.000	0.000	11	0.000	8.500
10000	385.0	0.0	8.600	0.000	0.000	11	0.000	8.600
10000	390.0	0.0	8.700	0.000	0.000	11	0.000	8.700
10000	395.0	0.0	8.800	0.000	0.000	11	0.000	8.800
10000	400.0	0.0	8.900	0.000	0.000	11	0.000	8.900
10000	405.0	0.0	9.000	0.000	0.000	11	0.000	9.000
10000	410.0	0.0	9.100	0.000	0.000	11	0.000	9.100
10000	415.0	0.0	9.200	0.000	0.000	11	0.000	9.200
10000	420.0	0.0	9.300	0.000	0.000	11	0.000	9.300
10000	425.0	0.0	9.400	0.000	0.000	11	0.000	9.400
10000	430.0	0.0	9.500	0.000	0.000	11	0.000	9.500
10000	435.0	0.0	9.600	0.000	0.000	11	0.000	9.600
10000	440.0	0.0	9.700	0.000	0.000	11	0.000	9.700
10000	445.0	0.0	9.800	0.000	0.000	11	0.000	9.800
10000	450.0	0.0	9.900	0.000	0.000	11	0.000	9.900
10000	455.0	0.0	10.000	0.000	0.000	11	0.000	10.000