APPENDIX D10
AIR DISPERSION MODELING

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1.0 SCOPE

The purpose of this modeling was to determine the air dispersion factors (ADF) representing the maximum concentrations of any gaseous airborne hazardous constituent that would be released from the mine air exhaust system during Waste Isolation Pilot Plant (WIPP) disposal operations. The main function of this calculation was performed by using the Environmental Protection Agency (EPA) computer-based Industrial Source Complex Long-Term (ISCLT3) air dispersion model. The model was used to predict a maximum concentration in $\mu g/m^3$, given an arbitrary input of a gas concentration of 1,000 $\mu g/m^3$. The ADF was then calculated using the following ratio:

$$\textit{Air Dispersion Factor} = \frac{\textit{maximum concentration } (\mu g/m^3)}{\textit{release concentration } (\mu g/m^3)} \qquad \text{(D10-1)}$$

2.0 BACKGROUND

The calculations and model runs were performed for the No-Migration Variance Petition (NMVP) and the Resource Conservation and Recovery Act (RCRA) Part B Permit Application. In the petition, the Department of Energy (DOE) must demonstrate that there will be no migration of hazardous constituents above heath-based levels (HBL) beyond the unit boundary. In its guidance manual, the EPA recommends that no-migration variance petitioners assess the air pathway using the ISC model. Given a concentration of a volatile organic compounds (VOC) in air released from the mine ventilation exhaust ducts, the air dispersion factor determines the resulting maximum concentration for the NMVP. This concentration is then compared to HBLs to demonstrate no-migration. In the permit application the DOE must demonstrate that there will be no release that may have an adverse effect on human health and the environment due to migration of waste constituents in the air. For the permit application the maximum concentration is used to calculate the long-term risk to the public, and then compared to acceptable risk levels. Occupational exposure is also required to be assessed in the application.

To perform the assessments above, four ADFs were determined. One ADF was determined for the maximum concentration point on the WIPP Site Boundary, two ADFs were determined for public exposure inside the WIPP Site Boundary, and one ADF was determined for the maximum worker exposure inside the Property Protection Area.

The EPA guidance on the air pathway assessment for NMVPs has specific requirements related to the ISC model run(s) for a NMVP. The model runs should:

1. estimate annual average concentrations using ISCLT3;
2. use five years of preferable on-site meteorological data, evaluate one year at a time, and use the run that produces the maximum boundary concentration;
3. include receptors up to 328 feet (100 meters) beyond the unit boundary to verify that the maximum concentration occurs at the boundary;
4. include a fine receptor grid in the maximum concentration area;
5. use Cartesian receptor grids;

6. correct for the vertical wind profile, if the source is at ground level; and
7. specify receptor heights at 5 feet (1.5 meters) (inhalation height).

Although the WIPP facility has an on-site meteorological monitoring program, the wind speed and direction data recorded under that program for the last five years do not meet EPA guidance for completeness (90 percent). As a whole, the data represent approximately 50 percent of the past five years. However, the data collected during 1993 represents approximately 70 percent coverage for that year. In addition to the on-site data, a complete set of meteorological data from the Carlsbad, New Mexico National Weather Service (NWS) Station at the Carlsbad Municipal Airport was available. The environmental conditions at the Carlsbad airport are similar to those at the WIPP facility, which is located approximately 30 miles east/southeast of the airport. Data from this station are based on hourly observations, 24 hours a day, and it is the closest NWS station to the WIPP site.

Yearly meteorological data for the Carlsbad, New Mexico NWS Station from 1990 to 1994 and the WIPP on-site meteorological station from 1993 were used during the analyses. In each model run, each set of meteorological data were used, and the run that yielded the highest concentration of concern was used to determine the next run or the ADF.

3.0 MODEL INPUT PARAMETERS

3.1 General

The ISCLT3 model is a FORTRAN computer program that requires an input file with parameters for the model run. The input file uses a keyword/parameter approach. The keywords specify the type of option or input data entered on each line of the input file and the parameters following the keyword define the specific options selected or the actual input data. The input file is divided into five functional "pathways." The pathway keywords and description are as follows:

CO - for specifying overall job COntrol options;
SO - for specifying SOurce information;
RE - for specifying REceptor information;
ME - for specifying MEteorology information; and
OU - for specifying OUtput options.

The input parameters described below are the only ones applicable to these model runs. Also note that all parameter values are expressed in SI units unless otherwise specified.

3.2 Job Control Options

TITLEONE and TITLETWO - specify a title for the model run
MODELOPT - CONC specifies an output in concentration of a gas per unit volume of air, and RURAL specifies the facility is in a rural area.
AVERTIME - time interval for averaging long-term concentrations
POLLUTID - name or other identifier of the pollutant modeled
TERRHGTS - elevation differences between source and receptors
ELEVUNIT - elevation unit

FLAGPOLE - height of receptor above ground-level

3.3 Source Information

LOCATION - coordinates for each source
SRCPARAM - source parameters, such as emission rate (mass/time), stack height, stack temperature, exit velocity, and equivalent stack diameter

Stack Tip Downwash and Building Wake - ISC incorporates the effects of wind turbulence at the exit of the stack (exhaust duct) and near other buildings around the stack using the Building Profile Input Program (BPIP). Data representing the buildings and structures around the stack are required.

BUILDHGT - height of buildings near the exhaust stack
BUILDWID - apparent width of buildings near the exhaust stack

3.4 Receptor Information

GRIDCART - Cartesian coordinates of a grid of receptors
DISCCART - Cartesian coordinates of discrete receptors

3.5 Meteorological Information

INPUTFIL - directory and filename containing STAR data
ANEMHGHT - height of the anemometer
SURFDATA - surface meteorological station number, year data represents, and a name for the information
UAIRDATA - upper air meteorological station number, year data represents, and a name for the information
STARDATA - time interval STAR data represents
AVESPEED - median values of wind speed categories represented in the STAR data
AVETEMPS - time interval, and average temperature for each wind speed category
AVEMIXHT - time interval, average mixing height for each wind speed category and each stability class
DTHETADZ - vertical temperature gradients for each wind speed category and each stability class

3.6 Output Options

RECTABLE - print a receptor concentration table
MAXTABLE - print maximum ground-level concentrations for the number specified

4.0 INPUT PARAMETERS

4.1 Job Control Options (most are self-explanatory)

TERRHGTS - ELEV, use elevations for complex terrain as indicated on topographic

maps provided in Attachment C

ELEVUNIT - units are in feet to correspond to US Geological Survey (USGS) maps

4.2 Source Information

LOCATION - the center of the outer edge of the exhaust fan discharge duct of one main fan represents the origin (0,0) for all other coordinates. The other fan discharge coordinate is 23.6 feet (7.2 meters) north of the origin.

SRCPARAM - The "stack" in this case is the exhaust fan discharge duct, which is rectangular. The emission rate is calculated assuming that 1000 $\mu g/m^3$ (0.001 g/m^3) of any gas is released from 425,000 ft^3/min of air.

$$air\ release\ rate = (425{,}000\,ft^3/\text{min})\,x\,(1\,m^3/35.32\,ft^3)\,x\,(1\,\text{min}/60\ s)$$

$$= 200.6\ m^3/s$$

$$release\ rate\ for\ each\ fan = \frac{(200.6\ m^3/s)}{2\ fans} = 100.3\ m^3/s$$

$$emission\ rate = (0.001\ g/m^3)\ x\ (100.3\ m^3/s) = 0.1\ g/s$$

stack height = 8.2 meter
stack temperature = 288 Kelvin

Because the exhaust fans actually emit the mine air at approximately a 45° angle, the vector equivalent velocity is input as (velocity) x (SIN 45°):

$$stack\,vel. = \frac{(vol.\,flow\,rate)\,x\,(\sin 45°)}{\pi\ x\ (d/2)^2} = \frac{70.92\,m^3/s}{\pi\ x\ (4.4\ m/2)^2} = 4.66\ m/s$$

$$stack\,exit\,area = (178\,in)\ x\ (130\,in)\ x\ (m^2/1549.4\,in^2) = 14.93\,m^2$$

$$equivalent\ dia. = 2\ x\ (A/\pi)^{1/2} = 2\ x\ (14.93\ m^2/\pi)^{1/2} = 4.4\ m$$

BUILDHGT and BUILDWID - Apparent width is the width of a structure perpendicular to the 16 evenly-spaced sectors around the stack (Figure 1). For example, the apparent width of Building 413 in the northwest direction is 28.9 feet (8.8 meters).

4.3 Receptor Information

4.3.1 Receptor Grid

4.3.1.1 Coarse Receptor Grid

The first five runs (Attachment 1) were coarse grid runs covering the WIPP property from the source (exhaust fans) to the WIPP Site Boundary. The receptors in these runs were generated in a Cartesian Grid of 1,312 feet (ft) by 1,312 ft (400 meters (m) by 400 m), which is the maximum number of receptors that can be used in one run to cover the property. One run was performed with the 1993 WIPP meteorological data, and the other five runs were performed with 1990 to 1994 Carlsbad meteorological data.

To determine the two ADFs for public inside the WIPP Site Boundary, the coarse grid concentrations were averaged for two areas. The two areas represent the cattle grazing leases on the WIPP property as shown in Figure D9-1 in Appendix D9 of the permit application (Appendix RA of the NMVP).

4.3.1.2 Fine Receptor Grid

To determine the WIPP Site Boundary ADF and the Property Protection Area ADF, two fine grids runs were performed. Based on the highest concentration at or beyond the WIPP Site Boundary from the six coarse grid runs, a fine grid run of 32 ft by 32 ft (10m by 10m) was performed around that point. In the other run a fine grid run of 32 ft by 32 ft (10m by 10m) was performed around the highest concentration, which was in the Property Protection Area from the six coarse runs.

4.4 Meteorological Information

INPUTFIL	- STAR file consisting of the normal frequency distribution of wind speed and wind direction, grouped by stability class. The data used in these model runs is from the Carlsbad, New Mexico Municipal Airport NWS Station.
ANEMHGHT	- self-explanatory
SURFDATA	- self-explanatory
UAIRDATA	- self-explanatory
STARDATA	- self-explanatory
AVESPEED	- self-explanatory
AVETEMPS	- 288 Kelvin for each stability class
AVEMIXHT	- 4,708 feet (1,435 meters) for each stability class and each wind speed category
DTHETADZ	- 0.01° - stability class E, 0.03° - stability class F

4.5 Output Options

MAXTABLE	- print the top 10 maximum ground-level concentrations and associated receptor coordinate and type

5.0 AIR DISPERSION FACTORS

Using equation D10-1, the four ADFs were calculated and are presented in Table D10-1 below.

In conclusion, any concentration of a gas released from the exhaust ducts can be multiplied by these ADFs to determine the maximum annual average concentration at the point or area of concern.

TABLE D10-1
AIR DISPERSION FACTORS

Area	ADF
WIPP Site Boundary	1.2×10^{-4}
Grazing Lease Area - North	9.8×10^{-5}
Grazing Lease Area - South	6.7×10^{-5}
Property Protection Area	1.2×10^{-2}

BIBLIOGRAPHY

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ATTACHMENT A - MODEL OUTPUT LIST FILES

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Property Protection Area Fine Grid Run with WIPP Meteorological Data D10-226

Property Protection Area Fine Grid Run with 1990 Carlsbad Meteorological Data D10-257

```
*** TRINITY DOWNWASH FILE NAME: C:\MODELS\EXFAN.WAK
CO STARTING
CO TITLEONE CONCENTRATIONS AT THE WIPP SITE BOUNDARY (93 WIPP Met)
CO TITLETWO Coarse Receptor Grid(400x400m)/1000 µg/m^3 SrcConc
CO MODELOPT CONC RURAL
CO AVERTIME ANNUAL
CO POLLUTID ANY
CO TERRHGTS ELEV
CO FLAGPOLE 1.500000
CO RUNORNOT RUN
CO FINISHED
SO STARTING
SO LOCATION 1 POINT        0.00       0.00    1039.37
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SO LOCATION 2 POINT        0.00       7.20    1039.37
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SO BUILDWID  1             30.72    30.72     7.29    31.62
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SO EMISUNIT 1000000.000000 GRAMS/SEC MICROGRAMS/M**3
SO SRCGROUP ALL
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RE ELEVUNIT FEET
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RE GRIDCART COARSE   ELEV 8  3400.00  3410.00  3430.00  3450.00
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RE GRIDCART COARSE   ELEV 8  3520.00
RE GRIDCART COARSE   ELEV 9  3380.00  3380.00  3380.00  3380.00
RE GRIDCART COARSE   ELEV 9  3380.00  3380.00  3390.00  3400.00
RE GRIDCART COARSE   ELEV 9  3410.00  3420.00  3440.00  3450.00
RE GRIDCART COARSE   ELEV 9  3490.00  3500.00  3510.00  3530.00
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RE GRIDCART COARSE   ELEV 9  3540.00
RE GRIDCART COARSE   ELEV 10  3400.00  3400.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 10  3400.00  3400.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 10  3400.00  3420.00  3440.00  3460.00
RE GRIDCART COARSE   ELEV 10  3480.00  3510.00  3520.00  3540.00
RE GRIDCART COARSE   ELEV 10  3540.00
RE GRIDCART COARSE   ELEV 11  3400.00  3400.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3430.00
RE GRIDCART COARSE   ELEV 11  3430.00  3430.00  3450.00  3470.00
RE GRIDCART COARSE   ELEV 11  3490.00  3510.00  3510.00  3530.00
RE GRIDCART COARSE   ELEV 11  3540.00
RE GRIDCART COARSE   ELEV 12  3390.00  3400.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 12  3410.00  3420.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 12  3450.00  3450.00  3460.00  3470.00
RE GRIDCART COARSE   ELEV 12  3500.00  3500.00  3500.00  3510.00
RE GRIDCART COARSE   ELEV 12  3520.00
RE GRIDCART COARSE   ELEV 13  3380.00  3390.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 13  3400.00  3420.00  3430.00  3450.00
RE GRIDCART COARSE   ELEV 13  3470.00  3470.00  3470.00  3480.00
RE GRIDCART COARSE   ELEV 13  3490.00  3490.00  3490.00  3500.00
RE GRIDCART COARSE   ELEV 13  3500.00
RE GRIDCART COARSE   ELEV 14  3370.00  3380.00  3390.00  3400.00
RE GRIDCART COARSE   ELEV 14  3400.00  3410.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 14  3460.00  3470.00  3470.00  3470.00
RE GRIDCART COARSE   ELEV 14  3480.00  3480.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 14  3500.00
RE GRIDCART COARSE   ELEV 15  3360.00  3370.00  3380.00  3380.00
RE GRIDCART COARSE   ELEV 15  3400.00  3400.00  3410.00  3430.00
RE GRIDCART COARSE   ELEV 15  3460.00  3460.00  3460.00  3460.00
RE GRIDCART COARSE   ELEV 15  3470.00  3470.00  3470.00  3480.00
RE GRIDCART COARSE   ELEV 15  3510.00
RE GRIDCART COARSE   ELEV 16  3350.00  3360.00  3370.00  3380.00
RE GRIDCART COARSE   ELEV 16  3390.00  3400.00  3400.00  3430.00
RE GRIDCART COARSE   ELEV 16  3440.00  3450.00  3450.00  3440.00
RE GRIDCART COARSE   ELEV 16  3450.00  3460.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 16  3510.00
RE GRIDCART COARSE   ELEV 17  3350.00  3360.00  3360.00  3370.00
RE GRIDCART COARSE   ELEV 17  3380.00  3390.00  3400.00  3420.00
RE GRIDCART COARSE   ELEV 17  3420.00  3430.00  3430.00  3440.00
RE GRIDCART COARSE   ELEV 17  3450.00  3460.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 17  3510.00
```

```
RE GRIDCART COARSE   END

RE FINISHED

ME STARTING

ME INPUTFIL C:\MODELS\MET\WP3093.STR FREE

ME ANEMHGHT   10.000 METERS

ME SURFDATA 11111 1993 WIPP

ME UAIRDATA 11111 1993

ME STARDATA ANNUAL

ME AVESPEED   1.00   2.25   4.05   6.55   9.25  12.50

ME AVETEMPS ANNUAL 288.80 288.80 288.80 288.80 288.80 288.80

ME AVEMIXHT ANNUAL A 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL B 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL C 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL D 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL E 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL F 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME DTHETADZ A   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ B   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ C   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ D   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ E   0.01   0.01   0.01   0.01   0.01   0.01

ME DTHETADZ F   0.03   0.03   0.03   0.03   0.03   0.03

ME FINISHED

OU STARTING

OU RECTABLE SRCGRP

OU MAXTABLE 10 SRCGRP

OU PLOTFILE ANNUAL ALL C:\MODELS\ADM\ADMCW93A.GPH 70

OU FINISHED

***********************************
*** SETUP Finishes Successfully ***
***********************************
```

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 *** MODELING OPTIONS USED:  CONC   RURAL  ELEV   FLGPOL

                                   ***    MODEL SETUP OPTIONS SUMMARY      ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
-

**Model Is Setup For Calculation of Average CONCentration Values.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses NO plume DEPLETION.

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:
          1. Final Plume Rise.
          2. Stack-tip Downwash.
          3. Buoyancy-induced Dispersion.
          4. Default Wind Profile Exponents.
          5. User-Specified Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates   1 STAR Average(s) for the Following Months:  0  0  0  0  0  0  0  0  0  0  0  0
                                           Seasons/Quarters:  0  0  0  0
                                                 and Annual:  1

**Data File Includes  1 STAR Summaries for the Following Months:  0  0  0  0  0  0  0  0  0  0  0  0
                                           Seasons/Quarters:  0  0  0  0
                                                 and Annual:  1

**This Run Includes:    2 Source(s);     1 Source Group(s); and    289 Receptor(s)

**The Model Assumes A Pollutant Type of:  ANY

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
        Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
        Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)
        Model Outputs External File(s) of Long Term Values for Plotting (PLOTFILE Keyword)

**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    .0000     ;    Rot. Angle =      .0
                 Emission Units = GRAMS/SEC                                 ;  Emission Rate Unit Factor =    .10000E+07
                 Output Units   = MICROGRAMS/M**3

**Input Runstream File: ADMCW93A.DAT                          ; **Output Print File: ADMCW93A.LST
```

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
1	0	.10000E+00	.0	.0	1039.4	8.20	288.80	4.66	4.40	YES	
2	0	.10000E+00	.0	7.2	1039.4	8.20	288.80	4.66	4.40	YES	

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	1 , 2 ,

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	13.1,	0	4	.0,	.0,	0
5	6.6,	30.7,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	31.6,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	11.2,	13.1,	0	12	.0,	.0,	0
13	6.6,	30.7,	0	14	6.6,	30.7,	0	15	2.0,	7.3,	0	16	6.6,	31.6,	0

SOURCE ID: 2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	12.7,	0	4	.0,	.0,	0
5	6.6,	26.8,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	33.7,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	.0,	.0,	0	12	.0,	.0,	0
13	6.6,	26.8,	0	14	6.6,	33.4,	0	15	6.6,	35.0,	0	16	6.6,	33.7,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-3189.5,	-2789.5,	-2389.5,	-1989.5,	-1589.5,	-1189.5,	-789.5,	-389.5,	10.5,	410.5,
810.5,	1210.5,	1610.5,	2010.5,	2410.5,	2810.5,	3210.5,			

*** Y-COORDINATES OF GRID ***
(METERS)

-3469.8,	-3069.8,	-2669.8,	-2269.8,	-1869.8,	-1469.8,	-1069.8,	-669.8,	-269.8,	130.2,
530.2,	930.2,	1330.2,	1730.2,	2130.2,	2530.2,	2930.2,			

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	1021.08	1024.13	1024.13	1027.18	1030.22	1033.27	1036.32	1042.42	1042.42
2530.19	1021.08	1024.13	1027.18	1030.22	1033.27	1036.32	1036.32	1045.46	1048.51
2130.19	1024.13	1027.18	1030.22	1030.22	1036.32	1036.32	1039.37	1045.46	1054.61
1730.19	1027.18	1030.22	1033.27	1036.32	1036.32	1039.37	1042.42	1048.51	1054.61
1330.19	1030.22	1033.27	1036.32	1036.32	1036.32	1042.42	1045.46	1051.56	1057.66
930.19	1033.27	1036.32	1039.37	1039.37	1039.37	1042.42	1042.42	1048.51	1051.56
530.19	1036.32	1036.32	1039.37	1039.37	1039.37	1039.37	1039.37	1045.46	1045.46
130.19	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32
-269.81	1030.22	1030.22	1030.22	1030.22	1030.22	1030.22	1033.27	1036.32	1039.37
-669.81	1024.13	1021.08	1027.18	1027.18	1027.18	1030.22	1030.22	1033.27	1036.32
-1069.81	1021.08	1018.03	1021.08	1024.13	1021.08	1027.18	1030.22	1033.27	1036.32
-1469.81	1018.03	1014.98	1018.03	1021.08	1021.08	1024.13	1027.18	1030.22	1033.27
-1869.81	1014.98	1014.98	1018.03	1018.03	1018.03	1021.08	1024.13	1027.18	1030.22
-2269.81	1011.94	1014.98	1014.98	1018.03	1018.03	1021.08	1021.08	1024.13	1030.22
-2669.81	1011.94	1014.98	1014.98	1014.98	1018.03	1021.08	1021.08	1024.13	1027.18
-3069.81	1011.94	1011.94	1014.98	1014.98	1018.03	1018.03	1018.03	1018.03	1024.13
-3469.81	1008.89	1011.94	1011.94	1014.98	1014.98	1018.03	1014.98	1018.03	1018.03

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	1045.46	1045.46	1048.51	1051.56	1054.61	1060.70	1063.75	1069.85
2530.19	1051.56	1051.56	1048.51	1051.56	1054.61	1060.70	1063.75	1069.85
2130.19	1054.61	1054.61	1054.61	1057.66	1057.66	1057.66	1060.70	1069.85
1730.19	1057.66	1057.66	1057.66	1060.70	1060.70	1060.70	1063.75	1066.80
1330.19	1057.66	1057.66	1060.70	1063.75	1063.75	1063.75	1066.80	1066.80
930.19	1051.56	1054.61	1057.66	1066.80	1066.80	1066.80	1069.85	1072.90
530.19	1045.46	1051.56	1057.66	1063.75	1069.85	1069.85	1075.94	1078.99
130.19	1042.42	1048.51	1054.61	1060.70	1069.85	1072.90	1078.99	1078.99
-269.81	1042.42	1048.51	1051.56	1063.75	1066.80	1069.85	1075.94	1078.99
-669.81	1039.37	1045.46	1051.56	1060.70	1063.75	1066.80	1069.85	1072.90
-1069.81	1039.37	1042.42	1051.56	1060.70	1057.66	1060.70	1063.75	1066.80
-1469.81	1039.37	1042.42	1051.56	1057.66	1054.61	1057.66	1057.66	1057.66
-1869.81	1039.37	1042.42	1048.51	1057.66	1054.61	1051.56	1051.56	1051.56
-2269.81	1036.32	1039.37	1042.42	1051.56	1051.56	1048.51	1048.51	1048.51
-2669.81	1030.22	1036.32	1039.37	1042.42	1048.51	1048.51	1048.51	1048.51
-3069.81	1027.18	1030.22	1033.27	1039.37	1042.42	1054.61	1048.51	1045.46
-3469.81	1021.08	1027.18	1033.27	1036.32	1042.42	1048.51	1045.46	1042.42

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1730.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1330.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1869.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1730.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1330.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1869.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***
(METERS/SEC)

1.00, 2.25, 4.05, 6.55, 9.25, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01
F	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
ANNUAL	288.8000	288.8000	288.8000	288.8000	288.8000	288.8000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	ANNUAL WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY B	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY C	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY D	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY E	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY F	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\WP3093.STR FORMAT: FREE

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: WIPP NAME: UNKNOWN
YEAR: 1993 YEAR: 1993

ANNUAL: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
22.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
45.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
67.500	.00000000	.00017000	.00000000	.00000000	.00000000	.00000000
90.000	.00019600	.00034000	.00000000	.00000000	.00000000	.00000000
112.500	.00000000	.00034000	.00000000	.00000000	.00000000	.00000000
135.000	.00019600	.00136200	.00000000	.00000000	.00000000	.00000000
157.500	.00039200	.00238300	.00000000	.00000000	.00000000	.00000000
180.000	.00195900	.00187200	.00000000	.00000000	.00000000	.00000000
202.500	.00195900	.00153200	.00000000	.00000000	.00000000	.00000000
225.000	.00215500	.00221300	.00000000	.00000000	.00000000	.00000000
247.500	.00195900	.00119100	.00000000	.00000000	.00000000	.00000000
270.000	.00078400	.00085100	.00000000	.00000000	.00000000	.00000000
292.500	.00000000	.00068100	.00000000	.00000000	.00000000	.00000000
315.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
337.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00019600	.00000000	.00000000	.00000000	.00000000	.00000000
22.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
45.000	.00058800	.00017000	.00051100	.00000000	.00000000	.00000000
67.500	.00078400	.00085100	.00017000	.00000000	.00000000	.00000000
90.000	.00156700	.00102100	.00051100	.00000000	.00000000	.00000000
112.500	.00333100	.00306400	.00255300	.00000000	.00000000	.00000000
135.000	.00293900	.00425500	.00425500	.00000000	.00000000	.00000000
157.500	.00293900	.00766000	.00680900	.00000000	.00000000	.00000000
180.000	.00411400	.00697900	.00510600	.00000000	.00000000	.00000000
202.500	.00489800	.00646800	.00306400	.00000000	.00000000	.00000000
225.000	.00391800	.00459600	.00187200	.00000000	.00000000	.00000000
247.500	.00509400	.00527700	.00153200	.00000000	.00000000	.00000000
270.000	.00117600	.00170200	.00204300	.00000000	.00000000	.00000000
292.500	.00098000	.00187200	.00221300	.00000000	.00000000	.00000000
315.000	.00098000	.00102100	.00119100	.00000000	.00000000	.00000000
337.500	.00000000	.00017000	.00000000	.00000000	.00000000	.00000000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\WP3093.STR FORMAT: FREE

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: WIPP NAME: UNKNOWN
YEAR: 1993 YEAR: 1993

ANNUAL: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00039200	.00034000	.00000000	.00000000	.00000000	.00000000
22.500	.00019600	.00034000	.00034000	.00000000	.00000000	.00000000
45.000	.00000000	.00068100	.00238300	.00000000	.00000000	.00000000
67.500	.00098000	.00085100	.00102100	.00000000	.00000000	.00000000
90.000	.00137100	.00136200	.00187200	.00000000	.00000000	.00000000
112.500	.00450600	.00391500	.00629800	.00034000	.00000000	.00000000
135.000	.00352700	.00544700	.01787200	.00442600	.00000000	.00000000
157.500	.00450600	.00425500	.01123400	.00289400	.00000000	.00000000
180.000	.00293900	.00595700	.01089400	.00340400	.00017000	.00000000
202.500	.00176300	.00459600	.00595700	.00017000	.00000000	.00000000
225.000	.00313500	.00425500	.00187200	.00017000	.00000000	.00000000
247.500	.00156700	.00340400	.00459600	.00170200	.00000000	.00000000
270.000	.00195900	.00289400	.00204300	.00170200	.00034000	.00000000
292.500	.00137100	.00153200	.00221300	.00000000	.00000000	.00000000
315.000	.00039200	.00136200	.00221300	.00051100	.00000000	.00000000
337.500	.00000000	.00017000	.00034000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00017000	.00017000	.00000000	.00000000	.00000000
22.500	.00000000	.00102100	.00119100	.00102100	.00034000	.00034000
45.000	.00039200	.00255300	.00493600	.00851100	.00153200	.00000000
67.500	.00078400	.00425500	.00595700	.00697900	.00068100	.00017000
90.000	.00313500	.00527700	.01293600	.00987200	.00119100	.00017000
112.500	.00372300	.01293600	.02706400	.01344700	.00136200	.00000000
135.000	.00372300	.01004300	.03285100	.04204300	.00306400	.00000000
157.500	.00176300	.00663800	.01855300	.01991500	.00238300	.00017000
180.000	.00274300	.00612800	.01072300	.00425500	.00051100	.00000000
202.500	.00117600	.00425500	.00731900	.00357400	.00000000	.00000000
225.000	.00019600	.00408500	.00510600	.00340400	.00136200	.00017000
247.500	.00058800	.00357400	.00595700	.01123400	.00306400	.00136200
270.000	.00058800	.00238300	.00527700	.00748900	.00357400	.00187200
292.500	.00039200	.00153200	.00221300	.00238300	.00102100	.00000000
315.000	.00000000	.00068100	.00204300	.00391500	.00136200	.00034000
337.500	.00000000	.00000000	.00034000	.00051100	.00000000	.00000000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\WP3093.STR FORMAT: FREE

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: WIPP NAME: UNKNOWN
YEAR: 1993 YEAR: 1993

ANNUAL: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00034000	.00034000	.00000000	.00000000	.00000000
22.500	.00000000	.00017000	.00034000	.00000000	.00000000	.00000000
45.000	.00000000	.00085100	.00187200	.00000000	.00000000	.00000000
67.500	.00000000	.00170200	.00272300	.00000000	.00000000	.00000000
90.000	.00000000	.00272300	.00783000	.00000000	.00000000	.00000000
112.500	.00000000	.00680900	.02314900	.00000000	.00000000	.00000000
135.000	.00000000	.01123400	.02961700	.00000000	.00000000	.00000000
157.500	.00000000	.00868100	.01038300	.00000000	.00000000	.00000000
180.000	.00000000	.00323400	.00238300	.00000000	.00000000	.00000000
202.500	.00000000	.00340400	.00068100	.00000000	.00000000	.00000000
225.000	.00000000	.00221300	.00119100	.00000000	.00000000	.00000000
247.500	.00000000	.00187200	.00442600	.00000000	.00000000	.00000000
270.000	.00000000	.00034000	.00272300	.00000000	.00000000	.00000000
292.500	.00000000	.00068100	.00204300	.00000000	.00000000	.00000000
315.000	.00000000	.00085100	.00170200	.00000000	.00000000	.00000000
337.500	.00000000	.00034000	.00085100	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00051100	.00000000	.00000000	.00000000	.00000000
22.500	.00039200	.00187200	.00000000	.00000000	.00000000	.00000000
45.000	.00156700	.00374500	.00000000	.00000000	.00000000	.00000000
67.500	.00313500	.00476600	.00000000	.00000000	.00000000	.00000000
90.000	.00607400	.00748900	.00000000	.00000000	.00000000	.00000000
112.500	.01097200	.02059600	.00000000	.00000000	.00000000	.00000000
135.000	.01195100	.02348900	.00000000	.00000000	.00000000	.00000000
157.500	.01136400	.01293600	.00000000	.00000000	.00000000	.00000000
180.000	.00881700	.00561700	.00000000	.00000000	.00000000	.00000000
202.500	.00607400	.00357400	.00000000	.00000000	.00000000	.00000000
225.000	.00470200	.00493600	.00000000	.00000000	.00000000	.00000000
247.500	.00450600	.00510600	.00000000	.00000000	.00000000	.00000000
270.000	.00254700	.00272300	.00000000	.00000000	.00000000	.00000000
292.500	.00176300	.00238300	.00000000	.00000000	.00000000	.00000000
315.000	.00195900	.00238300	.00000000	.00000000	.00000000	.00000000
337.500	.00058800	.00187200	.00000000	.00000000	.00000000	.00000000

SUM OF FREQUENCIES, FTOTAL = .99999

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	.065769	.075666	.075780	.079804	.081915	.081094	.081777	.083849	.070873
2530.19	.067632	.081635	.095510	.102764	.107807	.108443	.099799	.110719	.095228
2130.19	.073869	.090523	.112253	.124712	.145173	.138825	.136338	.142826	.120694
1730.19	.079878	.099408	.125793	.161919	.185073	.199953	.199806	.204437	.159140
1330.19	.085004	.107306	.138573	.169472	.211444	.300336	.322220	.298857	.224387
930.19	.080948	.106643	.145621	.185914	.240418	.359329	.451964	.483030	.350081
530.19	.072245	.088150	.120204	.158123	.218275	.317410	.476453	.917824	.612324
130.19	.054653	.064879	.078691	.098137	.126338	.171871	.258387	.463141	1.323298
-269.81	.037627	.042552	.048406	.055372	.062816	.070488	.086707	.135155	.008444
-669.81	.026443	.026068	.033451	.035338	.036063	.046215	.054874	.037382	.007953
-1069.81	.019342	.018214	.020776	.024879	.024502	.032864	.030024	.011820	.006235
-1469.81	.014561	.014330	.016571	.019192	.020345	.019743	.013360	.007162	.004183
-1869.81	.012035	.012644	.014329	.014919	.013677	.011276	.006051	.004785	.002989
-2269.81	.009958	.011094	.011439	.011572	.009621	.007182	.004134	.003390	.002423
-2669.81	.008863	.009715	.009233	.008065	.006831	.004607	.003366	.002752	.001864
-3069.81	.007879	.007546	.007273	.006108	.004879	.003072	.002554	.001935	.001479
-3469.81	.006286	.006149	.005374	.004656	.003229	.002601	.001989	.001650	.001123

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	.066410	.056593	.048034	.043285	.038518	.034008	.029928	.027224
2530.19	.082451	.067745	.056212	.049549	.043027	.037143	.033284	.030229
2130.19	.101205	.079013	.066837	.056789	.047865	.042030	.037472	.033408
1730.19	.127230	.096333	.080074	.065013	.055390	.048156	.041883	.036636
1330.19	.164793	.123308	.095632	.077998	.065039	.054529	.046222	.039642
930.19	.223003	.159887	.120366	.094147	.074690	.058938	.046259	.037427
530.19	.319253	.219602	.150175	.100331	.071171	.053443	.041806	.033791
130.19	.383190	.209957	.120484	.080131	.057873	.044206	.035118	.028769
-269.81	.124966	.111276	.080921	.059900	.045995	.036565	.029873	.024988
-669.81	.034933	.068361	.055900	.042052	.035401	.029833	.025326	.021767
-1069.81	.012542	.034125	.044029	.035685	.028957	.023784	.020545	.018336
-1469.81	.009032	.018355	.029486	.029455	.025083	.021319	.018228	.015741
-1869.81	.006659	.010426	.018769	.021687	.021414	.018801	.016506	.014526
-2269.81	.004544	.006680	.010799	.015312	.016718	.016477	.014803	.013270
-2669.81	.002962	.004742	.006755	.009889	.012624	.013419	.013210	.012050
-3069.81	.002251	.003177	.004158	.006800	.008794	.010596	.011077	.010600
-3469.81	.001605	.002434	.003479	.004744	.006831	.008440	.008778	.008703

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

** CONC OF ANY IN MICROGRAMS/M**3 **

RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE
1.	1.323298	AT (	10.47,	130.19)	GC	6.	.463141	AT (	-389.53,	130.19)	GC
2.	.917824	AT (	-389.53,	530.19)	GC	7.	.451964	AT (	-789.53,	930.19)	GC
3.	.612324	AT (	10.47,	530.19)	GC	8.	.383190	AT (	410.47,	130.19)	GC
4.	.483030	AT (	-389.53,	930.19)	GC	9.	.359329	AT (	-1189.53,	930.19)	GC
5.	.476453	AT (	-789.53,	530.19)	GC	10.	.350081	AT (	10.47,	930.19)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

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 *** MODELING OPTIONS USED:  CONC   RURAL  ELEV   FLGPOL


*** Message Summary : ISCLT3 Model Execution ***

 --------- Summary of Total Messages --------

A Total of           0 Fatal Error Message(s)
A Total of           0 Warning Message(s)
A Total of           0 Informational Message(s)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
              ***  NONE  ***


   ************************************
   *** ISCLT3 Finishes Successfully ***
   ************************************
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*** TRINITY DOWNWASH FILE NAME: C:\MODELS\EXFAN.WAK
CO STARTING
CO TITLEONE CONCENTRATIONS AT THE WIPP SITE BOUNDARY (90 Carlsbad Met)
CO TITLETWO Coarse Receptor Grid(400x400m)/1000 µg/m^3 SrcConc
CO MODELOPT CONC RURAL
CO AVERTIME ANNUAL
CO POLLUTID ANY
CO TERRHGTS ELEV
CO FLAGPOLE 1.500000
CO RUNORNOT RUN
CO FINISHED
SO STARTING
SO LOCATION 1 POINT        0.00       0.00    1039.37
SO SRCPARAM 1 0.100000        8.20     288.80     4.6598      4.400
SO LOCATION 2 POINT        0.00       7.20    1039.37
SO SRCPARAM 2 0.100000        8.20     288.80     4.6598      4.400
SO BUILDHGT 1    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 1     6.55     6.55     0.00     0.00    11.22     0.00
SO BUILDHGT 1     6.55     6.55     2.04     6.55
SO BUILDWID  1             10.51    11.82    13.05      .00    30.72    33.44
SO BUILDWID  1             34.97    31.62      .00      .00    13.05      .00
SO BUILDWID  1             30.72    30.72     7.29    31.62
SO BUILDHGT 2    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 2     6.55     6.55     0.00     0.00     0.00     0.00
SO BUILDHGT 2     6.55     6.55     6.55     6.55
SO BUILDWID  2             10.51    11.82    12.68      .00    26.82    33.44
SO BUILDWID  2             34.97    33.72      .00      .00      .00      .00
SO BUILDWID  2             26.82    33.44    34.97    33.72
SO EMISUNIT 1000000.000000 GRAMS/SEC MICROGRAMS/M**3
SO SRCGROUP ALL
SO FINISHED
RE STARTING
RE ELEVUNIT FEET
RE GRIDCART COARSE   STA
RE GRIDCART COARSE   XYINC -3189.53 17 400.00 -3469.81 17 400.00
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50
RE GRIDCART COARSE   FLAG 2     1.50     1.50     1.50     1.50
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RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50			
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50			
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50			
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50			
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50			
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50			
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50			
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50			
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50

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RE GRIDCART COARSE   FLAG 10     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10     1.50
RE GRIDCART COARSE   FLAG 11     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11     1.50
RE GRIDCART COARSE   FLAG 12     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 12     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 12     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 12     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 12     1.50
RE GRIDCART COARSE   FLAG 13     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 13     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 13     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 13     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 13     1.50
RE GRIDCART COARSE   FLAG 14     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 14     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 14     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 14     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 14     1.50
RE GRIDCART COARSE   FLAG 15     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 15     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 15     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 15     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 15     1.50
RE GRIDCART COARSE   FLAG 16     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 16     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 16     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 16     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 16     1.50
RE GRIDCART COARSE   FLAG 17     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 17     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 17     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 17     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 17     1.50
RE GRIDCART COARSE   ELEV 1   3310.00   3320.00   3320.00   3330.00
RE GRIDCART COARSE   ELEV 1   3330.00   3340.00   3330.00   3340.00
RE GRIDCART COARSE   ELEV 1   3340.00   3350.00   3370.00   3390.00
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RE GRIDCART COARSE   ELEV 1  3400.00  3420.00  3440.00  3430.00
RE GRIDCART COARSE   ELEV 1  3420.00
RE GRIDCART COARSE   ELEV 2  3320.00  3320.00  3330.00  3330.00
RE GRIDCART COARSE   ELEV 2  3340.00  3340.00  3340.00  3340.00
RE GRIDCART COARSE   ELEV 2  3360.00  3370.00  3380.00  3390.00
RE GRIDCART COARSE   ELEV 2  3410.00  3420.00  3460.00  3440.00
RE GRIDCART COARSE   ELEV 2  3430.00
RE GRIDCART COARSE   ELEV 3  3320.00  3330.00  3330.00  3330.00
RE GRIDCART COARSE   ELEV 3  3340.00  3350.00  3350.00  3360.00
RE GRIDCART COARSE   ELEV 3  3370.00  3380.00  3400.00  3410.00
RE GRIDCART COARSE   ELEV 3  3420.00  3440.00  3440.00  3440.00
RE GRIDCART COARSE   ELEV 3  3440.00
RE GRIDCART COARSE   ELEV 4  3320.00  3330.00  3330.00  3340.00
RE GRIDCART COARSE   ELEV 4  3340.00  3350.00  3350.00  3360.00
RE GRIDCART COARSE   ELEV 4  3380.00  3400.00  3410.00  3420.00
RE GRIDCART COARSE   ELEV 4  3450.00  3450.00  3440.00  3440.00
RE GRIDCART COARSE   ELEV 4  3440.00
RE GRIDCART COARSE   ELEV 5  3330.00  3330.00  3340.00  3340.00
RE GRIDCART COARSE   ELEV 5  3340.00  3350.00  3360.00  3370.00
RE GRIDCART COARSE   ELEV 5  3380.00  3410.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 5  3470.00  3460.00  3450.00  3450.00
RE GRIDCART COARSE   ELEV 5  3450.00
RE GRIDCART COARSE   ELEV 6  3340.00  3330.00  3340.00  3350.00
RE GRIDCART COARSE   ELEV 6  3350.00  3360.00  3370.00  3380.00
RE GRIDCART COARSE   ELEV 6  3390.00  3410.00  3420.00  3450.00
RE GRIDCART COARSE   ELEV 6  3470.00  3460.00  3470.00  3470.00
RE GRIDCART COARSE   ELEV 6  3470.00
RE GRIDCART COARSE   ELEV 7  3350.00  3340.00  3350.00  3360.00
RE GRIDCART COARSE   ELEV 7  3350.00  3370.00  3380.00  3390.00
RE GRIDCART COARSE   ELEV 7  3400.00  3410.00  3420.00  3450.00
RE GRIDCART COARSE   ELEV 7  3480.00  3470.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 7  3500.00
RE GRIDCART COARSE   ELEV 8  3360.00  3350.00  3370.00  3370.00
RE GRIDCART COARSE   ELEV 8  3370.00  3380.00  3380.00  3390.00
RE GRIDCART COARSE   ELEV 8  3400.00  3410.00  3430.00  3450.00
RE GRIDCART COARSE   ELEV 8  3480.00  3490.00  3500.00  3510.00
RE GRIDCART COARSE   ELEV 8  3520.00
RE GRIDCART COARSE   ELEV 9  3380.00  3380.00  3380.00  3380.00
RE GRIDCART COARSE   ELEV 9  3380.00  3380.00  3390.00  3400.00
RE GRIDCART COARSE   ELEV 9  3410.00  3420.00  3440.00  3450.00
RE GRIDCART COARSE   ELEV 9  3490.00  3500.00  3510.00  3530.00
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RE GRIDCART COARSE   ELEV 9  3540.00
RE GRIDCART COARSE   ELEV 10  3400.00  3400.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 10  3400.00  3400.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 10  3400.00  3420.00  3440.00  3460.00
RE GRIDCART COARSE   ELEV 10  3480.00  3510.00  3520.00  3540.00
RE GRIDCART COARSE   ELEV 10  3540.00
RE GRIDCART COARSE   ELEV 11  3400.00  3400.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3430.00
RE GRIDCART COARSE   ELEV 11  3430.00  3430.00  3450.00  3470.00
RE GRIDCART COARSE   ELEV 11  3490.00  3510.00  3510.00  3530.00
RE GRIDCART COARSE   ELEV 11  3540.00
RE GRIDCART COARSE   ELEV 12  3390.00  3400.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 12  3410.00  3420.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 12  3450.00  3450.00  3460.00  3470.00
RE GRIDCART COARSE   ELEV 12  3500.00  3500.00  3500.00  3510.00
RE GRIDCART COARSE   ELEV 12  3520.00
RE GRIDCART COARSE   ELEV 13  3380.00  3390.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 13  3400.00  3420.00  3430.00  3450.00
RE GRIDCART COARSE   ELEV 13  3470.00  3470.00  3470.00  3480.00
RE GRIDCART COARSE   ELEV 13  3490.00  3490.00  3490.00  3500.00
RE GRIDCART COARSE   ELEV 13  3500.00
RE GRIDCART COARSE   ELEV 14  3370.00  3380.00  3390.00  3400.00
RE GRIDCART COARSE   ELEV 14  3400.00  3410.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 14  3460.00  3470.00  3470.00  3470.00
RE GRIDCART COARSE   ELEV 14  3480.00  3480.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 14  3500.00
RE GRIDCART COARSE   ELEV 15  3360.00  3370.00  3380.00  3380.00
RE GRIDCART COARSE   ELEV 15  3400.00  3400.00  3410.00  3430.00
RE GRIDCART COARSE   ELEV 15  3460.00  3460.00  3460.00  3460.00
RE GRIDCART COARSE   ELEV 15  3470.00  3470.00  3470.00  3480.00
RE GRIDCART COARSE   ELEV 15  3510.00
RE GRIDCART COARSE   ELEV 16  3350.00  3360.00  3370.00  3380.00
RE GRIDCART COARSE   ELEV 16  3390.00  3400.00  3400.00  3430.00
RE GRIDCART COARSE   ELEV 16  3440.00  3450.00  3450.00  3440.00
RE GRIDCART COARSE   ELEV 16  3450.00  3460.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 16  3510.00
RE GRIDCART COARSE   ELEV 17  3350.00  3360.00  3360.00  3370.00
RE GRIDCART COARSE   ELEV 17  3380.00  3390.00  3400.00  3420.00
RE GRIDCART COARSE   ELEV 17  3420.00  3430.00  3430.00  3440.00
RE GRIDCART COARSE   ELEV 17  3450.00  3460.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 17  3510.00
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RE GRIDCART COARSE   END

RE FINISHED

ME STARTING

ME INPUTFIL C:\MODELS\MET\CBD90.STR (7X,6F7.5)

ME ANEMHGHT   10.000 METERS

ME SURFDATA 11111 1990 CARLSBAD

ME UAIRDATA 11111 1990

ME STARDATA ANNUAL

ME AVESPEED   1.00   2.25   4.05   6.55   9.25  12.50

ME AVETEMPS ANNUAL 288.80 288.80 288.80 288.80 288.80 288.80

ME AVEMIXHT ANNUAL A 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL B 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL C 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL D 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL E 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL F 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME DTHETADZ A   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ B   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ C   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ D   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ E   0.01   0.01   0.01   0.01   0.01   0.01

ME DTHETADZ F   0.03   0.03   0.03   0.03   0.03   0.03

ME FINISHED

OU STARTING

OU RECTABLE SRCGRP

OU MAXTABLE 10 SRCGRP

OU PLOTFILE ANNUAL ALL C:\MODELS\ADM\ADMCC90A.GPH 70

OU FINISHED

***********************************
*** SETUP Finishes Successfully ***
***********************************
```

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** MODEL SETUP OPTIONS SUMMARY ***

**Model Is Setup For Calculation of Average CONCentration Values.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses NO plume DEPLETION.

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Default Wind Profile Exponents.
5. User-Specified Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

```
**Model Calculates   1 STAR Average(s) for the Following Months:  0  0  0  0  0  0  0  0  0  0  0  0
                                          Seasons/Quarters:  0  0  0  0
                                                and Annual:  1

**Data File Includes  1 STAR Summaries for the Following Months:  0  0  0  0  0  0  0  0  0  0  0  0
                                          Seasons/Quarters:  0  0  0  0
                                                and Annual:  1
```

**This Run Includes: 2 Source(s); 1 Source Group(s); and 289 Receptor(s)

**The Model Assumes A Pollutant Type of: ANY

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)
Model Outputs External File(s) of Long Term Values for Plotting (PLOTFILE Keyword)

```
**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    .0000     ;    Rot. Angle =      .0
                 Emission Units = GRAMS/SEC                                ;  Emission Rate Unit Factor =    .10000E+07
                 Output Units   = MICROGRAMS/M**3
```

**Input Runstream File: ADMCC90A.DAT ; **Output Print File: ADMCC90A.LST

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
1	0	.10000E+00	.0	.0	1039.4	8.20	288.80	4.66	4.40	YES	
2	0	.10000E+00	.0	7.2	1039.4	8.20	288.80	4.66	4.40	YES	

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	1 , 2 ,

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	13.1,	0	4	.0,	.0,	0
5	6.6,	30.7,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	31.6,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	11.2,	13.1,	0	12	.0,	.0,	0
13	6.6,	30.7,	0	14	6.6,	30.7,	0	15	2.0,	7.3,	0	16	6.6,	31.6,	0

SOURCE ID: 2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	12.7,	0	4	.0,	.0,	0
5	6.6,	26.8,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	33.7,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	.0,	.0,	0	12	.0,	.0,	0
13	6.6,	26.8,	0	14	6.6,	33.4,	0	15	6.6,	35.0,	0	16	6.6,	33.7,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-3189.5,	-2789.5,	-2389.5,	-1989.5,	-1589.5,	-1189.5,	-789.5,	-389.5,	10.5,	410.5,
810.5,	1210.5,	1610.5,	2010.5,	2410.5,	2810.5,	3210.5,			

*** Y-COORDINATES OF GRID ***
(METERS)

-3469.8,	-3069.8,	-2669.8,	-2269.8,	-1869.8,	-1469.8,	-1069.8,	-669.8,	-269.8,	130.2,
530.2,	930.2,	1330.2,	1730.2,	2130.2,	2530.2,	2930.2,			

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	1021.08	1024.13	1024.13	1027.18	1030.22	1033.27	1036.32	1042.42	1042.42
2530.19	1021.08	1024.13	1027.18	1030.22	1033.27	1036.32	1036.32	1045.46	1048.51
2130.19	1024.13	1027.18	1030.22	1030.22	1036.32	1036.32	1039.37	1045.46	1054.61
1730.19	1027.18	1030.22	1033.27	1036.32	1036.32	1039.37	1042.42	1048.51	1054.61
1330.19	1030.22	1033.27	1036.32	1036.32	1036.32	1042.42	1045.46	1051.56	1057.66
930.19	1033.27	1036.32	1039.37	1039.37	1039.37	1042.42	1042.42	1048.51	1051.56
530.19	1036.32	1036.32	1039.37	1039.37	1039.37	1039.37	1039.37	1045.46	1045.46
130.19	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32
-269.81	1030.22	1030.22	1030.22	1030.22	1030.22	1030.22	1033.27	1036.32	1039.37
-669.81	1024.13	1021.08	1027.18	1027.18	1027.18	1030.22	1030.22	1033.27	1036.32
-1069.81	1021.08	1018.03	1021.08	1024.13	1021.08	1027.18	1030.22	1033.27	1036.32
-1469.81	1018.03	1014.98	1018.03	1021.08	1021.08	1024.13	1027.18	1030.22	1033.27
-1869.81	1014.98	1014.98	1018.03	1018.03	1018.03	1021.08	1024.13	1027.18	1030.22
-2269.81	1011.94	1014.98	1014.98	1018.03	1018.03	1021.08	1021.08	1024.13	1030.22
-2669.81	1011.94	1014.98	1014.98	1014.98	1018.03	1021.08	1021.08	1024.13	1027.18
-3069.81	1011.94	1011.94	1014.98	1014.98	1018.03	1018.03	1018.03	1018.03	1024.13
-3469.81	1008.89	1011.94	1011.94	1014.98	1014.98	1018.03	1014.98	1018.03	1018.03

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	1045.46	1045.46	1048.51	1051.56	1054.61	1060.70	1063.75	1069.85
2530.19	1051.56	1051.56	1048.51	1051.56	1054.61	1060.70	1063.75	1069.85
2130.19	1054.61	1054.61	1054.61	1057.66	1057.66	1057.66	1060.70	1069.85
1730.19	1057.66	1057.66	1057.66	1060.70	1060.70	1060.70	1063.75	1066.80
1330.19	1057.66	1057.66	1060.70	1063.75	1063.75	1063.75	1066.80	1066.80
930.19	1051.56	1054.61	1057.66	1066.80	1066.80	1066.80	1069.85	1072.90
530.19	1045.46	1051.56	1057.66	1063.75	1069.85	1069.85	1075.94	1078.99
130.19	1042.42	1048.51	1054.61	1060.70	1069.85	1072.90	1078.99	1078.99
-269.81	1042.42	1048.51	1051.56	1063.75	1066.80	1069.85	1075.94	1078.99
-669.81	1039.37	1045.46	1051.56	1060.70	1063.75	1066.80	1069.85	1072.90
-1069.81	1039.37	1042.42	1051.56	1060.70	1057.66	1060.70	1063.75	1066.80
-1469.81	1039.37	1042.42	1051.56	1057.66	1054.61	1057.66	1057.66	1057.66
-1869.81	1039.37	1042.42	1048.51	1057.66	1054.61	1051.56	1051.56	1051.56
-2269.81	1036.32	1039.37	1042.42	1051.56	1051.56	1048.51	1048.51	1048.51
-2669.81	1030.22	1036.32	1039.37	1042.42	1048.51	1048.51	1048.51	1048.51
-3069.81	1027.18	1030.22	1033.27	1039.37	1042.42	1054.61	1048.51	1045.46
-3469.81	1021.08	1027.18	1033.27	1036.32	1042.42	1048.51	1045.46	1042.42

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1730.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1330.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1869.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1730.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1330.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1869.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***
(METERS/SEC)

1.00, 2.25, 4.05, 6.55, 9.25, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01
F	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
ANNUAL	288.8000	288.8000	288.8000	288.8000	288.8000	288.8000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	ANNUAL WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY B	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY C	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY D	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY E	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY F	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD90.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1990 YEAR: 1990

ANNUAL: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00064000	.00083000	.00000000	.00000000	.00000000	.00000000
22.500	.00018000	.00024000	.00000000	.00000000	.00000000	.00000000
45.000	.00066000	.00059000	.00000000	.00000000	.00000000	.00000000
67.500	.00048000	.00035000	.00000000	.00000000	.00000000	.00000000
90.000	.00094000	.00095000	.00000000	.00000000	.00000000	.00000000
112.500	.00057000	.00047000	.00000000	.00000000	.00000000	.00000000
135.000	.00126000	.00083000	.00000000	.00000000	.00000000	.00000000
157.500	.00045000	.00059000	.00000000	.00000000	.00000000	.00000000
180.000	.00066000	.00059000	.00000000	.00000000	.00000000	.00000000
202.500	.00018000	.00024000	.00000000	.00000000	.00000000	.00000000
225.000	.00027000	.00035000	.00000000	.00000000	.00000000	.00000000
247.500	.00027000	.00035000	.00000000	.00000000	.00000000	.00000000
270.000	.00027000	.00035000	.00000000	.00000000	.00000000	.00000000
292.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
315.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
337.500	.00036000	.00047000	.00000000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00103000	.00213000	.00189000	.00000000	.00000000	.00000000
22.500	.00130000	.00213000	.00071000	.00000000	.00000000	.00000000
45.000	.00083000	.00177000	.00118000	.00000000	.00000000	.00000000
67.500	.00118000	.00307000	.00106000	.00000000	.00000000	.00000000
90.000	.00169000	.00284000	.00130000	.00000000	.00000000	.00000000
112.500	.00105000	.00402000	.00189000	.00000000	.00000000	.00000000
135.000	.00116000	.00556000	.00355000	.00000000	.00000000	.00000000
157.500	.00225000	.00721000	.00343000	.00000000	.00000000	.00000000
180.000	.00248000	.00520000	.00343000	.00000000	.00000000	.00000000
202.500	.00039000	.00071000	.00095000	.00000000	.00000000	.00000000
225.000	.00043000	.00095000	.00012000	.00000000	.00000000	.00000000
247.500	.00009000	.00059000	.00024000	.00000000	.00000000	.00000000
270.000	.00035000	.00047000	.00035000	.00000000	.00000000	.00000000
292.500	.00045000	.00024000	.00024000	.00000000	.00000000	.00000000
315.000	.00034000	.00130000	.00012000	.00000000	.00000000	.00000000
337.500	.00071000	.00189000	.00071000	.00000000	.00000000	.00000000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD90.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1990 YEAR: 1990

ANNUAL: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00080000	.00366000	.00816000	.00248000	.00012000	.00000000
22.500	.00035000	.00284000	.00343000	.00059000	.00000000	.00000000
45.000	.00025000	.00319000	.00118000	.00012000	.00000000	.00000000
67.500	.00036000	.00296000	.00130000	.00000000	.00000000	.00000000
90.000	.00056000	.00390000	.00343000	.00071000	.00000000	.00000000
112.500	.00067000	.00366000	.00473000	.00142000	.00000000	.00000000
135.000	.00029000	.00366000	.01017000	.00355000	.00012000	.00000000
157.500	.00069000	.00556000	.01324000	.00248000	.00035000	.00000000
180.000	.00040000	.00508000	.01206000	.00284000	.00024000	.00000000
202.500	.00034000	.00106000	.00106000	.00071000	.00000000	.00000000
225.000	.00016000	.00047000	.00047000	.00012000	.00024000	.00000000
247.500	.00030000	.00059000	.00177000	.00083000	.00071000	.00047000
270.000	.00047000	.00118000	.00225000	.00213000	.00165000	.00071000
292.500	.00031000	.00071000	.00083000	.00083000	.00024000	.00000000
315.000	.00035000	.00118000	.00095000	.00035000	.00000000	.00000000
337.500	.00033000	.00095000	.00189000	.00059000	.00012000	.00000000

ANNUAL: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00043000	.00461000	.00875000	.01572000	.00307000	.00059000
22.500	.00042000	.00248000	.00402000	.00449000	.00047000	.00035000
45.000	.00044000	.00284000	.00496000	.00343000	.00035000	.00012000
67.500	.00037000	.00177000	.00366000	.00201000	.00000000	.00000000
90.000	.00058000	.00307000	.00579000	.00496000	.00035000	.00000000
112.500	.00042000	.00248000	.00603000	.00378000	.00035000	.00000000
135.000	.00100000	.00556000	.01312000	.01820000	.00201000	.00059000
157.500	.00073000	.00520000	.02506000	.02376000	.00225000	.00024000
180.000	.00096000	.00496000	.01962000	.01466000	.00071000	.00047000
202.500	.00028000	.00225000	.00319000	.00366000	.00118000	.00035000
225.000	.00064000	.00201000	.00390000	.00319000	.00106000	.00024000
247.500	.00034000	.00130000	.00544000	.01253000	.00532000	.00189000
270.000	.00021000	.00307000	.00768000	.02624000	.01548000	.00662000
292.500	.00049000	.00165000	.00402000	.00922000	.00213000	.00071000
315.000	.00039000	.00213000	.00366000	.00485000	.00047000	.00012000
337.500	.00046000	.00307000	.00721000	.00969000	.00414000	.00059000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD90.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1990 YEAR: 1990

ANNUAL: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00390000	.00473000	.00000000	.00000000	.00000000
22.500	.00000000	.00130000	.00130000	.00000000	.00000000	.00000000
45.000	.00000000	.00071000	.00118000	.00000000	.00000000	.00000000
67.500	.00000000	.00118000	.00154000	.00000000	.00000000	.00000000
90.000	.00000000	.00165000	.00189000	.00000000	.00000000	.00000000
112.500	.00000000	.00154000	.00236000	.00000000	.00000000	.00000000
135.000	.00000000	.00414000	.00863000	.00000000	.00000000	.00000000
157.500	.00000000	.00721000	.01797000	.00000000	.00000000	.00000000
180.000	.00000000	.01005000	.02364000	.00000000	.00000000	.00000000
202.500	.00000000	.00284000	.00934000	.00000000	.00000000	.00000000
225.000	.00000000	.00366000	.00792000	.00000000	.00000000	.00000000
247.500	.00000000	.00236000	.01206000	.00000000	.00000000	.00000000
270.000	.00000000	.00390000	.01478000	.00000000	.00000000	.00000000
292.500	.00000000	.00461000	.01229000	.00000000	.00000000	.00000000
315.000	.00000000	.00260000	.00603000	.00000000	.00000000	.00000000
337.500	.00000000	.00154000	.00402000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00468000	.00993000	.00000000	.00000000	.00000000	.00000000
22.500	.00242000	.00520000	.00000000	.00000000	.00000000	.00000000
45.000	.00155000	.00201000	.00000000	.00000000	.00000000	.00000000
67.500	.00120000	.00248000	.00000000	.00000000	.00000000	.00000000
90.000	.00258000	.00390000	.00000000	.00000000	.00000000	.00000000
112.500	.00174000	.00461000	.00000000	.00000000	.00000000	.00000000
135.000	.00246000	.00745000	.00000000	.00000000	.00000000	.00000000
157.500	.00425000	.01430000	.00000000	.00000000	.00000000	.00000000
180.000	.00608000	.02352000	.00000000	.00000000	.00000000	.00000000
202.500	.00264000	.00981000	.00000000	.00000000	.00000000	.00000000
225.000	.00254000	.00674000	.00000000	.00000000	.00000000	.00000000
247.500	.00388000	.00768000	.00000000	.00000000	.00000000	.00000000
270.000	.00378000	.01312000	.00000000	.00000000	.00000000	.00000000
292.500	.00431000	.01678000	.00000000	.00000000	.00000000	.00000000
315.000	.00265000	.00827000	.00000000	.00000000	.00000000	.00000000
337.500	.00287000	.00603000	.00000000	.00000000	.00000000	.00000000

SUM OF FREQUENCIES, FTOTAL = .99995

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	.022464	.028361	.034472	.044335	.056847	.072193	.089532	.113674	.123982
2530.19	.021706	.027825	.036289	.048397	.064506	.085263	.103321	.143887	.164025
2130.19	.021497	.028269	.037662	.048331	.072147	.094252	.128997	.178953	.210257
1730.19	.020338	.027520	.037958	.053405	.072924	.109823	.163067	.239090	.280215
1330.19	.017830	.024912	.035751	.049487	.070491	.122227	.206454	.322363	.406299
930.19	.020287	.025082	.031689	.043172	.066094	.116623	.205432	.445746	.660715
530.19	.022812	.026786	.034521	.042627	.054131	.076806	.160422	.531248	1.217078
130.19	.023551	.027818	.033536	.041513	.052964	.071434	.106884	.194960	2.262964
-269.81	.018822	.021657	.025233	.029875	.035789	.044056	.061384	.121488	.523172
-669.81	.013823	.014191	.018360	.020379	.022538	.033083	.048256	.075833	.218682
-1069.81	.010565	.010474	.012567	.016347	.018645	.028092	.039994	.062925	.145736
-1469.81	.008578	.009208	.011458	.014534	.017467	.023013	.030569	.053754	.096444
-1869.81	.007895	.008965	.010988	.012721	.014909	.018936	.024112	.044123	.069358
-2269.81	.007203	.008599	.009721	.011948	.013776	.017139	.022168	.036036	.057429
-2669.81	.006930	.008164	.009232	.010476	.012784	.015636	.021766	.032461	.044529
-3069.81	.006619	.007370	.008804	.009858	.011860	.013885	.019154	.024798	.035557
-3469.81	.006032	.007087	.007842	.009288	.010208	.013889	.016755	.022596	.026799

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	.100222	.070500	.044037	.039338	.034801	.030574	.026843	.024955
2530.19	.120657	.077389	.051090	.044829	.038671	.033196	.030467	.028556
2130.19	.143723	.079188	.060532	.050928	.042671	.038511	.035514	.032549
1730.19	.170609	.088108	.072023	.057753	.050757	.045906	.041166	.036917
1330.19	.197812	.111353	.084735	.071653	.062466	.054197	.047211	.041463
930.19	.207465	.141859	.110917	.091540	.075443	.064470	.056715	.050016
530.19	.286015	.203941	.148718	.121117	.098925	.081786	.068598	.058484
130.19	.409863	.352419	.232682	.165746	.124619	.097972	.079483	.066194
-269.81	.225604	.322464	.229455	.166763	.126264	.099530	.080818	.067300
-669.81	.126210	.152287	.164296	.141260	.113140	.092062	.076270	.064401
-1069.81	.101663	.090620	.099557	.098313	.090134	.080547	.069933	.060250
-1469.81	.087050	.072617	.072669	.065999	.066279	.062950	.058367	.053647
-1869.81	.073077	.058039	.059140	.051543	.047717	.048254	.046881	.044560
-2269.81	.056408	.047125	.043377	.043766	.038914	.036567	.037192	.036585
-2669.81	.041113	.039159	.034253	.033893	.034059	.030823	.029233	.029783
-3069.81	.033470	.030403	.026559	.027766	.027440	.027522	.025211	.023402
-3469.81	.025618	.025710	.024794	.023044	.024340	.024603	.022222	.019694

17
*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

** CONC OF ANY IN MICROGRAMS/M**3 **

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	2.262964	AT (	10.47,	130.19)	GC	6.	.445746	AT (	-389.53,	930.19)	GC
2.	1.217078	AT (	10.47,	530.19)	GC	7.	.409863	AT (	410.47,	130.19)	GC
3.	.660715	AT (	10.47,	930.19)	GC	8.	.406299	AT (	10.47,	1330.19)	GC
4.	.531248	AT (	-389.53,	530.19)	GC	9.	.352419	AT (	810.47,	130.19)	GC
5.	.523172	AT (	10.47,	-269.81)	GC	10.	.322464	AT (	810.47,	-269.81)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** Message Summary : ISCLT3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 0 Informational Message(s)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCLT3 Finishes Successfully ***
****

```
*** TRINITY DOWNWASH FILE NAME: C:\MODELS\EXFAN.WAK
CO STARTING
CO TITLEONE CONCENTRATIONS AT THE WIPP SITE BOUNDARY (91 Carlsbad Met)
CO TITLETWO Coarse Receptor Grid(400x400m)/1000 µg/m^3 SrcConc
CO MODELOPT CONC RURAL
CO AVERTIME ANNUAL
CO POLLUTID ANY
CO TERRHGTS ELEV
CO FLAGPOLE 1.500000
CO RUNORNOT RUN
CO FINISHED
SO STARTING
SO LOCATION 1 POINT        0.00       0.00    1039.37
SO SRCPARAM 1 0.100000        8.20     288.80     4.6598      4.400
SO LOCATION 2 POINT        0.00       7.20    1039.37
SO SRCPARAM 2 0.100000        8.20     288.80     4.6598      4.400
SO BUILDHGT 1    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 1     6.55     6.55     0.00     0.00    11.22     0.00
SO BUILDHGT 1     6.55     6.55     2.04     6.55
SO BUILDWID  1             10.51    11.82    13.05      .00    30.72    33.44
SO BUILDWID  1             34.97    31.62      .00      .00    13.05      .00
SO BUILDWID  1             30.72    30.72     7.29    31.62
SO BUILDHGT 2    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 2     6.55     6.55     0.00     0.00     0.00     0.00
SO BUILDHGT 2     6.55     6.55     6.55     6.55
SO BUILDWID  2             10.51    11.82    12.68      .00    26.82    33.44
SO BUILDWID  2             34.97    33.72      .00      .00      .00      .00
SO BUILDWID  2             26.82    33.44    34.97    33.72
SO EMISUNIT 1000000.000000 GRAMS/SEC MICROGRAMS/M**3
SO SRCGROUP ALL
SO FINISHED
RE STARTING
RE ELEVUNIT FEET
RE GRIDCART COARSE   STA
RE GRIDCART COARSE   XYINC -3189.53 17 400.00 -3469.81 17 400.00
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50
RE GRIDCART COARSE   FLAG 2     1.50     1.50     1.50     1.50
```

RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50			
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50			
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50			
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50			
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50			
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50			
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50			
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50			
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50

RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50			
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50			
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50			
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50			
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50			
RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 15	1.50			
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50			
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50			
RE GRIDCART COARSE	ELEV 1	3310.00	3320.00	3320.00	3330.00
RE GRIDCART COARSE	ELEV 1	3330.00	3340.00	3330.00	3340.00
RE GRIDCART COARSE	ELEV 1	3340.00	3350.00	3370.00	3390.00

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RE GRIDCART COARSE   ELEV 1  3400.00  3420.00  3440.00  3430.00
RE GRIDCART COARSE   ELEV 1  3420.00
RE GRIDCART COARSE   ELEV 2  3320.00  3320.00  3330.00  3330.00
RE GRIDCART COARSE   ELEV 2  3340.00  3340.00  3340.00  3340.00
RE GRIDCART COARSE   ELEV 2  3360.00  3370.00  3380.00  3390.00
RE GRIDCART COARSE   ELEV 2  3410.00  3420.00  3460.00  3440.00
RE GRIDCART COARSE   ELEV 2  3430.00
RE GRIDCART COARSE   ELEV 3  3320.00  3330.00  3330.00  3330.00
RE GRIDCART COARSE   ELEV 3  3340.00  3350.00  3350.00  3360.00
RE GRIDCART COARSE   ELEV 3  3370.00  3380.00  3400.00  3410.00
RE GRIDCART COARSE   ELEV 3  3420.00  3440.00  3440.00  3440.00
RE GRIDCART COARSE   ELEV 3  3440.00
RE GRIDCART COARSE   ELEV 4  3320.00  3330.00  3330.00  3340.00
RE GRIDCART COARSE   ELEV 4  3340.00  3350.00  3350.00  3360.00
RE GRIDCART COARSE   ELEV 4  3380.00  3400.00  3410.00  3420.00
RE GRIDCART COARSE   ELEV 4  3450.00  3450.00  3440.00  3440.00
RE GRIDCART COARSE   ELEV 4  3440.00
RE GRIDCART COARSE   ELEV 5  3330.00  3330.00  3340.00  3340.00
RE GRIDCART COARSE   ELEV 5  3340.00  3350.00  3360.00  3370.00
RE GRIDCART COARSE   ELEV 5  3380.00  3410.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 5  3470.00  3460.00  3450.00  3450.00
RE GRIDCART COARSE   ELEV 5  3450.00
RE GRIDCART COARSE   ELEV 6  3340.00  3330.00  3340.00  3350.00
RE GRIDCART COARSE   ELEV 6  3350.00  3360.00  3370.00  3380.00
RE GRIDCART COARSE   ELEV 6  3390.00  3410.00  3420.00  3450.00
RE GRIDCART COARSE   ELEV 6  3470.00  3460.00  3470.00  3470.00
RE GRIDCART COARSE   ELEV 6  3470.00
RE GRIDCART COARSE   ELEV 7  3350.00  3340.00  3350.00  3360.00
RE GRIDCART COARSE   ELEV 7  3350.00  3370.00  3380.00  3390.00
RE GRIDCART COARSE   ELEV 7  3400.00  3410.00  3420.00  3450.00
RE GRIDCART COARSE   ELEV 7  3480.00  3470.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 7  3500.00
RE GRIDCART COARSE   ELEV 8  3360.00  3350.00  3370.00  3370.00
RE GRIDCART COARSE   ELEV 8  3370.00  3380.00  3380.00  3390.00
RE GRIDCART COARSE   ELEV 8  3400.00  3410.00  3430.00  3450.00
RE GRIDCART COARSE   ELEV 8  3480.00  3490.00  3500.00  3510.00
RE GRIDCART COARSE   ELEV 8  3520.00
RE GRIDCART COARSE   ELEV 9  3380.00  3380.00  3380.00  3380.00
RE GRIDCART COARSE   ELEV 9  3380.00  3380.00  3390.00  3400.00
RE GRIDCART COARSE   ELEV 9  3410.00  3420.00  3440.00  3450.00
RE GRIDCART COARSE   ELEV 9  3490.00  3500.00  3510.00  3530.00
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RE GRIDCART COARSE   ELEV 9  3540.00
RE GRIDCART COARSE   ELEV 10  3400.00  3400.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 10  3400.00  3400.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 10  3400.00  3420.00  3440.00  3460.00
RE GRIDCART COARSE   ELEV 10  3480.00  3510.00  3520.00  3540.00
RE GRIDCART COARSE   ELEV 10  3540.00
RE GRIDCART COARSE   ELEV 11  3400.00  3400.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3430.00
RE GRIDCART COARSE   ELEV 11  3430.00  3430.00  3450.00  3470.00
RE GRIDCART COARSE   ELEV 11  3490.00  3510.00  3510.00  3530.00
RE GRIDCART COARSE   ELEV 11  3540.00
RE GRIDCART COARSE   ELEV 12  3390.00  3400.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 12  3410.00  3420.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 12  3450.00  3450.00  3460.00  3470.00
RE GRIDCART COARSE   ELEV 12  3500.00  3500.00  3500.00  3510.00
RE GRIDCART COARSE   ELEV 12  3520.00
RE GRIDCART COARSE   ELEV 13  3380.00  3390.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 13  3400.00  3420.00  3430.00  3450.00
RE GRIDCART COARSE   ELEV 13  3470.00  3470.00  3470.00  3480.00
RE GRIDCART COARSE   ELEV 13  3490.00  3490.00  3490.00  3500.00
RE GRIDCART COARSE   ELEV 13  3500.00
RE GRIDCART COARSE   ELEV 14  3370.00  3380.00  3390.00  3400.00
RE GRIDCART COARSE   ELEV 14  3400.00  3410.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 14  3460.00  3470.00  3470.00  3470.00
RE GRIDCART COARSE   ELEV 14  3480.00  3480.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 14  3500.00
RE GRIDCART COARSE   ELEV 15  3360.00  3370.00  3380.00  3380.00
RE GRIDCART COARSE   ELEV 15  3400.00  3400.00  3410.00  3430.00
RE GRIDCART COARSE   ELEV 15  3460.00  3460.00  3460.00  3460.00
RE GRIDCART COARSE   ELEV 15  3470.00  3470.00  3470.00  3480.00
RE GRIDCART COARSE   ELEV 15  3510.00
RE GRIDCART COARSE   ELEV 16  3350.00  3360.00  3370.00  3380.00
RE GRIDCART COARSE   ELEV 16  3390.00  3400.00  3400.00  3430.00
RE GRIDCART COARSE   ELEV 16  3440.00  3450.00  3450.00  3440.00
RE GRIDCART COARSE   ELEV 16  3450.00  3460.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 16  3510.00
RE GRIDCART COARSE   ELEV 17  3350.00  3360.00  3360.00  3370.00
RE GRIDCART COARSE   ELEV 17  3380.00  3390.00  3400.00  3420.00
RE GRIDCART COARSE   ELEV 17  3420.00  3430.00  3430.00  3440.00
RE GRIDCART COARSE   ELEV 17  3450.00  3460.00   80.00  3490.00
RE GRIDCART COARSE   ELEV 17  3510.00
```

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RE GRIDCART COARSE   END

RE FINISHED

ME STARTING

ME INPUTFIL C:\MODELS\MET\CBD91.STR (7X,6F7.5)

ME ANEMHGHT   10.000 METERS

ME SURFDATA 11111 1991 CARLSBAD

ME UAIRDATA 11111 1991

ME STARDATA ANNUAL

ME AVESPEED   1.00   2.25   4.05   6.55   9.25  12.50

ME AVETEMPS ANNUAL 288.80 288.80 288.80 288.80 288.80 288.80

ME AVEMIXHT ANNUAL A 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL B 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL C 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL D 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL E 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL F 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME DTHETADZ A   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ B   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ C   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ D   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ E   0.01   0.01   0.01   0.01   0.01   0.01

ME DTHETADZ F   0.03   0.03   0.03   0.03   0.03   0.03

ME FINISHED

OU STARTING

OU RECTABLE SRCGRP

OU MAXTABLE 10 SRCGRP

OU PLOTFILE ANNUAL ALL C:\MODELS\ADM\ADMCC91A.GPH 70

OU FINISHED

***********************************
*** SETUP Finishes Successfully ***
***********************************
```

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** MODEL SETUP OPTIONS SUMMARY ***

- -

**Model Is Setup For Calculation of Average CONCentration Values.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses NO plume DEPLETION.

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Default Wind Profile Exponents.
5. User-Specified Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates 1 STAR Average(s) for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**Data File Includes 1 STAR Summaries for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**This Run Includes: 2 Source(s); 1 Source Group(s); and 289 Receptor(s)

**The Model Assumes A Pollutant Type of: ANY

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)
Model Outputs External File(s) of Long Term Values for Plotting (PLOTFILE Keyword)

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = .0000 ; Rot. Angle = .0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = .10000E+07
Output Units = MICROGRAMS/M**3

**Input Runstream File: ADMCC91A.DAT ; **Output Print File: ADMCC91A.LST

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
1	0	.10000E+00	.0	.0	1039.4	8.20	288.80	4.66	4.40	YES	
2	0	.10000E+00	.0	7.2	1039.4	8.20	288.80	4.66	4.40	YES	

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	1 , 2 ,

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	13.1,	0	4	.0,	.0,	0
5	6.6,	30.7,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	31.6,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	11.2,	13.1,	0	12	.0,	.0,	0
13	6.6,	30.7,	0	14	6.6,	30.7,	0	15	2.0,	7.3,	0	16	6.6,	31.6,	0

SOURCE ID: 2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	12.7,	0	4	.0,	.0,	0
5	6.6,	26.8,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	33.7,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	.0,	.0,	0	12	.0,	.0,	0
13	6.6,	26.8,	0	14	6.6,	33.4,	0	15	6.6,	35.0,	0	16	6.6,	33.7,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-3189.5,	-2789.5,	-2389.5,	-1989.5,	-1589.5,	-1189.5,	-789.5,	-389.5,	10.5,	410.5,
810.5,	1210.5,	1610.5,	2010.5,	2410.5,	2810.5,	3210.5,			

*** Y-COORDINATES OF GRID ***
(METERS)

-3469.8,	-3069.8,	-2669.8,	-2269.8,	-1869.8,	-1469.8,	-1069.8,	-669.8,	-269.8,	130.2,
530.2,	930.2,	1330.2,	1730.2,	2130.2,	2530.2,	2930.2,			

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	1021.08	1024.13	1024.13	1027.18	1030.22	1033.27	1036.32	1042.42	1042.42
2530.19	1021.08	1024.13	1027.18	1030.22	1033.27	1036.32	1036.32	1045.46	1048.51
2130.19	1024.13	1027.18	1030.22	1030.22	1036.32	1036.32	1039.37	1045.46	1054.61
1730.19	1027.18	1030.22	1033.27	1036.32	1036.32	1039.37	1042.42	1048.51	1054.61
1330.19	1030.22	1033.27	1036.32	1036.32	1036.32	1042.42	1045.46	1051.56	1057.66
930.19	1033.27	1036.32	1039.37	1039.37	1039.37	1042.42	1042.42	1048.51	1051.56
530.19	1036.32	1036.32	1039.37	1039.37	1039.37	1039.37	1039.37	1045.46	1045.46
130.19	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32
-269.81	1030.22	1030.22	1030.22	1030.22	1030.22	1030.22	1033.27	1036.32	1039.37
-669.81	1024.13	1021.08	1027.18	1027.18	1027.18	1030.22	1030.22	1033.27	1036.32
-1069.81	1021.08	1018.03	1021.08	1024.13	1021.08	1027.18	1030.22	1033.27	1036.32
-1469.81	1018.03	1014.98	1018.03	1021.08	1021.08	1024.13	1027.18	1030.22	1033.27
-1869.81	1014.98	1014.98	1018.03	1018.03	1018.03	1021.08	1024.13	1027.18	1030.22
-2269.81	1011.94	1014.98	1014.98	1018.03	1018.03	1021.08	1021.08	1024.13	1030.22
-2669.81	1011.94	1014.98	1014.98	1014.98	1018.03	1021.08	1021.08	1024.13	1027.18
-3069.81	1011.94	1011.94	1014.98	1014.98	1018.03	1018.03	1018.03	1018.03	1024.13
-3469.81	1008.89	1011.94	1011.94	1014.98	1014.98	1018.03	1014.98	1018.03	1018.03

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	1045.46	1045.46	1048.51	1051.56	1054.61	1060.70	1063.75	1069.85
2530.19	1051.56	1051.56	1048.51	1051.56	1054.61	1060.70	1063.75	1069.85
2130.19	1054.61	1054.61	1054.61	1057.66	1057.66	1057.66	1060.70	1069.85
1730.19	1057.66	1057.66	1057.66	1060.70	1060.70	1060.70	1063.75	1066.80
1330.19	1057.66	1057.66	1060.70	1063.75	1063.75	1063.75	1066.80	1066.80
930.19	1051.56	1054.61	1057.66	1066.80	1066.80	1066.80	1069.85	1072.90
530.19	1045.46	1051.56	1057.66	1063.75	1069.85	1069.85	1075.94	1078.99
130.19	1042.42	1048.51	1054.61	1060.70	1069.85	1072.90	1078.99	1078.99
-269.81	1042.42	1048.51	1051.56	1063.75	1066.80	1069.85	1075.94	1078.99
-669.81	1039.37	1045.46	1051.56	1060.70	1063.75	1066.80	1069.85	1072.90
-1069.81	1039.37	1042.42	1051.56	1060.70	1057.66	1060.70	1063.75	1066.80
-1469.81	1039.37	1042.42	1051.56	1057.66	1054.61	1057.66	1057.66	1057.66
-1869.81	1039.37	1042.42	1048.51	1057.66	1054.61	1051.56	1051.56	1051.56
-2269.81	1036.32	1039.37	1042.42	1051.56	1051.56	1048.51	1048.51	1048.51
-2669.81	1030.22	1036.32	1039.37	1042.42	1048.51	1048.51	1048.51	1048.51
-3069.81	1027.18	1030.22	1033.27	1039.37	1042.42	1054.61	1048.51	1045.46
-3469.81	1021.08	1027.18	1033.27	1036.32	1042.42	1048.51	1045.46	1042.42

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1730.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1330.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1869.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1730.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1330.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1869.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***
(METERS/SEC)

1.00, 2.25, 4.05, 6.55, 9.25, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01
F	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
ANNUAL	288.8000	288.8000	288.8000	288.8000	288.8000	288.8000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	ANNUAL WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY B	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY C	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY D	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY E	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY F	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD91.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1991 YEAR: 1991

ANNUAL: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00010000	.00059000	.00000000	.00000000	.00000000	.00000000
22.500	.00018000	.00106000	.00000000	.00000000	.00000000	.00000000
45.000	.00027000	.00082000	.00000000	.00000000	.00000000	.00000000
67.500	.00020000	.00035000	.00000000	.00000000	.00000000	.00000000
90.000	.00027000	.00082000	.00000000	.00000000	.00000000	.00000000
112.500	.00025000	.00070000	.00000000	.00000000	.00000000	.00000000
135.000	.00045000	.00106000	.00000000	.00000000	.00000000	.00000000
157.500	.00037000	.00141000	.00000000	.00000000	.00000000	.00000000
180.000	.00022000	.00047000	.00000000	.00000000	.00000000	.00000000
202.500	.00004000	.00023000	.00000000	.00000000	.00000000	.00000000
225.000	.00008000	.00047000	.00000000	.00000000	.00000000	.00000000
247.500	.00014000	.00000000	.00000000	.00000000	.00000000	.00000000
270.000	.00004000	.00023000	.00000000	.00000000	.00000000	.00000000
292.500	.00014000	.00000000	.00000000	.00000000	.00000000	.00000000
315.000	.00006000	.00035000	.00000000	.00000000	.00000000	.00000000
337.500	.00002000	.00012000	.00000000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00152000	.00211000	.00129000	.00000000	.00000000	.00000000
22.500	.00115000	.00211000	.00106000	.00000000	.00000000	.00000000
45.000	.00090000	.00223000	.00164000	.00000000	.00000000	.00000000
67.500	.00107000	.00282000	.00082000	.00000000	.00000000	.00000000
90.000	.00114000	.00388000	.00117000	.00000000	.00000000	.00000000
112.500	.00086000	.00341000	.00211000	.00000000	.00000000	.00000000
135.000	.00180000	.00623000	.00294000	.00000000	.00000000	.00000000
157.500	.00206000	.00634000	.00599000	.00000000	.00000000	.00000000
180.000	.00156000	.00458000	.00446000	.00000000	.00000000	.00000000
202.500	.00034000	.00129000	.00070000	.00000000	.00000000	.00000000
225.000	.00021000	.00129000	.00023000	.00000000	.00000000	.00000000
247.500	.00031000	.00082000	.00023000	.00000000	.00000000	.00000000
270.000	.00116000	.00047000	.00059000	.00000000	.00000000	.00000000
292.500	.00017000	.00059000	.00000000	.00000000	.00000000	.00000000
315.000	.00015000	.00035000	.00012000	.00000000	.00000000	.00000000
337.500	.00052000	.00023000	.00047000	.00000000	.00000000	.00000000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD91.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1991 YEAR: 1991

ANNUAL: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00115000	.00305000	.00587000	.00106000	.00012000	.00000000
22.500	.00036000	.00211000	.00294000	.00012000	.00000000	.00000000
45.000	.00037000	.00223000	.00141000	.00023000	.00000000	.00000000
67.500	.00052000	.00282000	.00106000	.00000000	.00000000	.00000000
90.000	.00037000	.00235000	.00223000	.00035000	.00000000	.00000000
112.500	.00042000	.00317000	.00388000	.00047000	.00023000	.00000000
135.000	.00058000	.00399000	.00893000	.00294000	.00000000	.00000000
157.500	.00027000	.00505000	.01480000	.00258000	.00012000	.00000000
180.000	.00062000	.00470000	.01081000	.00258000	.00012000	.00012000
202.500	.00017000	.00082000	.00141000	.00047000	.00000000	.00012000
225.000	.00030000	.00094000	.00106000	.00082000	.00012000	.00000000
247.500	.00028000	.00059000	.00153000	.00164000	.00047000	.00012000
270.000	.00040000	.00059000	.00200000	.00270000	.00223000	.00070000
292.500	.00078000	.00070000	.00129000	.00070000	.00012000	.00023000
315.000	.00069000	.00141000	.00153000	.00012000	.00000000	.00000000
337.500	.00023000	.00200000	.00211000	.00035000	.00012000	.00000000

ANNUAL: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00134000	.00564000	.01304000	.01527000	.00200000	.00035000
22.500	.00074000	.00611000	.00493000	.00364000	.00035000	.00000000
45.000	.00065000	.00505000	.00411000	.00223000	.00023000	.00000000
67.500	.00082000	.00388000	.00576000	.00223000	.00000000	.00012000
90.000	.00138000	.00458000	.00505000	.00211000	.00035000	.00000000
112.500	.00063000	.00470000	.00529000	.00317000	.00047000	.00023000
135.000	.00049000	.00623000	.00904000	.01386000	.00282000	.00012000
157.500	.00075000	.00623000	.02185000	.01903000	.00188000	.00023000
180.000	.00108000	.00717000	.01797000	.01269000	.00059000	.00012000
202.500	.00040000	.00188000	.00411000	.00458000	.00129000	.00035000
225.000	.00038000	.00164000	.00317000	.00388000	.00164000	.00035000
247.500	.00046000	.00106000	.00435000	.01269000	.00305000	.00223000
270.000	.00065000	.00176000	.00646000	.02784000	.01457000	.00916000
292.500	.00049000	.00294000	.00317000	.00928000	.00317000	.00164000
315.000	.00091000	.00352000	.00670000	.00634000	.00082000	.00023000
337.500	.00093000	.00376000	.00975000	.01480000	.00270000	.00035000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD91.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1991 YEAR: 1991

ANNUAL: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00470000	.00611000	.00000000	.00000000	.00000000
22.500	.00000000	.00200000	.00200000	.00000000	.00000000	.00000000
45.000	.00000000	.00223000	.00141000	.00000000	.00000000	.00000000
67.500	.00000000	.00200000	.00106000	.00000000	.00000000	.00000000
90.000	.00000000	.00223000	.00094000	.00000000	.00000000	.00000000
112.500	.00000000	.00305000	.00106000	.00000000	.00000000	.00000000
135.000	.00000000	.00411000	.00341000	.00000000	.00000000	.00000000
157.500	.00000000	.00705000	.00975000	.00000000	.00000000	.00000000
180.000	.00000000	.00975000	.01809000	.00000000	.00000000	.00000000
202.500	.00000000	.00411000	.00916000	.00000000	.00000000	.00000000
225.000	.00000000	.00247000	.00646000	.00000000	.00000000	.00000000
247.500	.00000000	.00388000	.01010000	.00000000	.00000000	.00000000
270.000	.00000000	.00576000	.01797000	.00000000	.00000000	.00000000
292.500	.00000000	.00470000	.01081000	.00000000	.00000000	.00000000
315.000	.00000000	.00388000	.00634000	.00000000	.00000000	.00000000
337.500	.00000000	.00270000	.00458000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00407000	.00858000	.00000000	.00000000	.00000000	.00000000
22.500	.00238000	.00446000	.00000000	.00000000	.00000000	.00000000
45.000	.00137000	.00258000	.00000000	.00000000	.00000000	.00000000
67.500	.00193000	.00176000	.00000000	.00000000	.00000000	.00000000
90.000	.00248000	.00305000	.00000000	.00000000	.00000000	.00000000
112.500	.00159000	.00552000	.00000000	.00000000	.00000000	.00000000
135.000	.00319000	.00564000	.00000000	.00000000	.00000000	.00000000
157.500	.00544000	.01339000	.00000000	.00000000	.00000000	.00000000
180.000	.00568000	.02408000	.00000000	.00000000	.00000000	.00000000
202.500	.00352000	.00951000	.00000000	.00000000	.00000000	.00000000
225.000	.00358000	.00893000	.00000000	.00000000	.00000000	.00000000
247.500	.00376000	.01151000	.00000000	.00000000	.00000000	.00000000
270.000	.00579000	.01515000	.00000000	.00000000	.00000000	.00000000
292.500	.00469000	.01480000	.00000000	.00000000	.00000000	.00000000
315.000	.00281000	.00904000	.00000000	.00000000	.00000000	.00000000
337.500	.00281000	.00693000	.00000000	.00000000	.00000000	.00000000

SUM OF FREQUENCIES, FTOTAL = .99990

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	.019249	.024130	.029853	.039158	.051144	.066098	.083581	.108031	.119059
2530.19	.019175	.023922	.030932	.042250	.057558	.077617	.095635	.136585	.157667
2130.19	.019873	.025281	.032618	.041267	.063551	.084606	.118548	.169107	.202014
1730.19	.020068	.026044	.034492	.046651	.062602	.097250	.148346	.224837	.269042
1330.19	.019471	.025746	.035015	.045800	.061710	.105548	.185034	.299209	.389580
930.19	.021274	.026629	.034221	.044709	.063165	.103509	.176123	.401561	.631541
530.19	.022852	.026964	.035042	.043685	.056231	.078602	.142697	.450585	1.150348
130.19	.022470	.026486	.031831	.039214	.049634	.065912	.095132	.165023	2.016856
-269.81	.018642	.021525	.025198	.030041	.036417	.045857	.068567	.129945	.493748
-669.81	.015027	.015760	.020960	.024335	.028702	.040558	.055672	.084380	.228139
-1069.81	.012844	.013333	.016271	.020679	.022824	.033409	.046633	.071240	.154415
-1469.81	.011198	.011846	.014443	.017910	.020923	.027219	.035820	.059753	.102383
-1869.81	.010099	.011277	.013557	.015354	.017784	.022463	.028363	.048599	.073632
-2269.81	.009050	.010623	.011785	.014351	.016464	.020315	.025575	.039514	.060585
-2669.81	.008569	.009935	.011141	.012588	.015241	.018445	.024628	.035264	.047059
-3069.81	.008073	.008926	.010598	.011820	.014086	.016260	.021521	.027104	.037650
-3469.81	.007327	.008564	.009447	.011095	.012159	.015944	.018760	.024544	.028652

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	.098536	.071909	.048265	.043493	.038803	.034378	.030414	.028312
2530.19	.119177	.080302	.056162	.049717	.043295	.037519	.034500	.032293
2130.19	.142791	.084579	.066692	.056700	.048035	.043459	.040057	.036703
1730.19	.171203	.096164	.079623	.064657	.057012	.051584	.046266	.041500
1330.19	.202562	.121830	.094254	.080067	.069864	.060669	.052893	.046496
930.19	.223035	.155707	.122868	.101780	.084070	.072486	.064664	.057612
530.19	.304282	.221675	.163617	.136646	.113504	.094904	.080250	.068842
130.19	.405533	.395611	.268741	.194128	.147230	.116463	.094923	.079334
-269.81	.250126	.326000	.244856	.183358	.141532	.113090	.092766	.077861
-669.81	.155750	.174367	.167761	.137793	.115014	.096405	.081599	.070029
-1069.81	.121217	.110859	.115030	.104158	.091193	.079209	.069355	.061340
-1469.81	.098983	.087516	.087497	.076883	.071802	.065288	.058805	.052945
-1869.81	.080862	.069267	.070648	.061945	.055839	.053058	.049501	.045731
-2269.81	.061720	.054809	.051852	.052278	.046698	.042912	.041329	.039155
-2669.81	.044973	.044628	.040872	.040525	.040667	.036936	.034363	.033355
-3069.81	.036465	.034383	.031520	.033163	.032801	.032840	.030174	.027590
-3469.81	.028037	.028833	.028775	.027503	.028975	.029249	.026548	.023657

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

** CONC OF ANY IN MICROGRAMS/M**3 **

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	2.016856	AT (	10.47,	130.19)	GC	6.	.405533	AT (	410.47,	130.19)	GC
2.	1.150348	AT (	10.47,	530.19)	GC	7.	.401561	AT (	-389.53,	930.19)	GC
3.	.631541	AT (	10.47,	930.19)	GC	8.	.395611	AT (	810.47,	130.19)	GC
4.	.493748	AT (	10.47,	-269.81)	GC	9.	.389580	AT (	10.47,	1330.19)	GC
5.	.450585	AT (	-389.53,	530.19)	GC	10.	.326000	AT (	810.47,	-269.81)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** Message Summary : ISCLT3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 0 Informational Message(s)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCLT3 Finishes Successfully ***
****

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*** TRINITY DOWNWASH FILE NAME: C:\MODELS\EXFAN.WAK
CO STARTING
CO TITLEONE CONCENTRATIONS AT THE WIPP SITE BOUNDARY (92 Carlsbad Met)
CO TITLETWO Coarse Receptor Grid(400x400m)/1000 µg/m^3 SrcConc
CO MODELOPT CONC RURAL
CO AVERTIME ANNUAL
CO POLLUTID ANY
CO TERRHGTS ELEV
CO FLAGPOLE 1.500000
CO RUNORNOT RUN
CO FINISHED
SO STARTING
SO LOCATION 1 POINT        0.00       0.00    1039.37
SO SRCPARAM 1 0.100000        8.20     288.80     4.6598      4.400
SO LOCATION 2 POINT        0.00       7.20    1039.37
SO SRCPARAM 2 0.100000        8.20     288.80     4.6598      4.400
SO BUILDHGT 1    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 1     6.55     6.55     0.00     0.00    11.22     0.00
SO BUILDHGT 1     6.55     6.55     2.04     6.55
SO BUILDWID  1             10.51    11.82    13.05      .00    30.72    33.44
SO BUILDWID  1             34.97    31.62      .00      .00    13.05      .00
SO BUILDWID  1             30.72    30.72     7.29    31.62
SO BUILDHGT 2    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 2     6.55     6.55     0.00     0.00     0.00     0.00
SO BUILDHGT 2     6.55     6.55     6.55     6.55
SO BUILDWID  2             10.51    11.82    12.68      .00    26.82    33.44
SO BUILDWID  2             34.97    33.72      .00      .00      .00      .00
SO BUILDWID  2             26.82    33.44    34.97    33.72
SO EMISUNIT 1000000.000000 GRAMS/SEC MICROGRAMS/M**3
SO SRCGROUP ALL
SO FINISHED
RE STARTING
RE ELEVUNIT FEET
RE GRIDCART COARSE  STA
RE GRIDCART COARSE   XYINC -3189.53 17 400.00 -3469.81 17 400.00
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50
RE GRIDCART COARSE   FLAG 2     1.50     1.50     1.50     1.50
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RE	GRIDCART	COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 2	1.50			
RE	GRIDCART	COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 3	1.50			
RE	GRIDCART	COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 4	1.50			
RE	GRIDCART	COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 5	1.50			
RE	GRIDCART	COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 6	1.50			
RE	GRIDCART	COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 7	1.50			
RE	GRIDCART	COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 8	1.50			
RE	GRIDCART	COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 9	1.50			
RE	GRIDCART	COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 10	1.50	1.50	1.50	1.50

RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50			
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50			
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50			
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50			
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50			
RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 15	1.50			
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50			
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50			
RE GRIDCART COARSE	ELEV 1	3310.00	3320.00	3320.00	3330.00
RE GRIDCART COARSE	ELEV 1	3330.00	3340.00	3330.00	3340.00
RE GRIDCART COARSE	ELEV 1	3340.00	3350.00	3370.00	3390.00

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RE GRIDCART COARSE   ELEV 1  3400.00  3420.00  3440.00  3430.00
RE GRIDCART COARSE   ELEV 1  3420.00
RE GRIDCART COARSE   ELEV 2  3320.00  3320.00  3330.00  3330.00
RE GRIDCART COARSE   ELEV 2  3340.00  3340.00  3340.00  3340.00
RE GRIDCART COARSE   ELEV 2  3360.00  3370.00  3380.00  3390.00
RE GRIDCART COARSE   ELEV 2  3410.00  3420.00  3460.00  3440.00
RE GRIDCART COARSE   ELEV 2  3430.00
RE GRIDCART COARSE   ELEV 3  3320.00  3330.00  3330.00  3330.00
RE GRIDCART COARSE   ELEV 3  3340.00  3350.00  3350.00  3360.00
RE GRIDCART COARSE   ELEV 3  3370.00  3380.00  3400.00  3410.00
RE GRIDCART COARSE   ELEV 3  3420.00  3440.00  3440.00  3440.00
RE GRIDCART COARSE   ELEV 3  3440.00
RE GRIDCART COARSE   ELEV 4  3320.00  3330.00  3330.00  3340.00
RE GRIDCART COARSE   ELEV 4  3340.00  3350.00  3350.00  3360.00
RE GRIDCART COARSE   ELEV 4  3380.00  3400.00  3410.00  3420.00
RE GRIDCART COARSE   ELEV 4  3450.00  3450.00  3440.00  3440.00
RE GRIDCART COARSE   ELEV 4  3440.00
RE GRIDCART COARSE   ELEV 5  3330.00  3330.00  3340.00  3340.00
RE GRIDCART COARSE   ELEV 5  3340.00  3350.00  3360.00  3370.00
RE GRIDCART COARSE   ELEV 5  3380.00  3410.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 5  3470.00  3460.00  3450.00  3450.00
RE GRIDCART COARSE   ELEV 5  3450.00
RE GRIDCART COARSE   ELEV 6  3340.00  3330.00  3340.00  3350.00
RE GRIDCART COARSE   ELEV 6  3350.00  3360.00  3370.00  3380.00
RE GRIDCART COARSE   ELEV 6  3390.00  3410.00  3420.00  3450.00
RE GRIDCART COARSE   ELEV 6  3470.00  3460.00  3470.00  3470.00
RE GRIDCART COARSE   ELEV 6  3470.00
RE GRIDCART COARSE   ELEV 7  3350.00  3340.00  3350.00  3360.00
RE GRIDCART COARSE   ELEV 7  3350.00  3370.00  3380.00  3390.00
RE GRIDCART COARSE   ELEV 7  3400.00  3410.00  3420.00  3450.00
RE GRIDCART COARSE   ELEV 7  3480.00  3470.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 7  3500.00
RE GRIDCART COARSE   ELEV 8  3360.00  3350.00  3370.00  3370.00
RE GRIDCART COARSE   ELEV 8  3370.00  3380.00  3380.00  3390.00
RE GRIDCART COARSE   ELEV 8  3400.00  3410.00  3430.00  3450.00
RE GRIDCART COARSE   ELEV 8  3480.00  3490.00  3500.00  3510.00
RE GRIDCART COARSE   ELEV 8  3520.00
RE GRIDCART COARSE   ELEV 9  3380.00  3380.00  3380.00  3380.00
RE GRIDCART COARSE   ELEV 9  3380.00  3380.00  3390.00  3400.00
RE GRIDCART COARSE   ELEV 9  3410.00  3420.00  3440.00  3450.00
RE GRIDCART COARSE   ELEV 9  3490.00  3500.00  3510.00  3530.00
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RE GRIDCART COARSE   ELEV 9  3540.00
RE GRIDCART COARSE   ELEV 10  3400.00  3400.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 10  3400.00  3400.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 10  3400.00  3420.00  3440.00  3460.00
RE GRIDCART COARSE   ELEV 10  3480.00  3510.00  3520.00  3540.00
RE GRIDCART COARSE   ELEV 10  3540.00
RE GRIDCART COARSE   ELEV 11  3400.00  3400.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3430.00
RE GRIDCART COARSE   ELEV 11  3430.00  3430.00  3450.00  3470.00
RE GRIDCART COARSE   ELEV 11  3490.00  3510.00  3510.00  3530.00
RE GRIDCART COARSE   ELEV 11  3540.00
RE GRIDCART COARSE   ELEV 12  3390.00  3400.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 12  3410.00  3420.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 12  3450.00  3450.00  3460.00  3470.00
RE GRIDCART COARSE   ELEV 12  3500.00  3500.00  3500.00  3510.00
RE GRIDCART COARSE   ELEV 12  3520.00
RE GRIDCART COARSE   ELEV 13  3380.00  3390.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 13  3400.00  3420.00  3430.00  3450.00
RE GRIDCART COARSE   ELEV 13  3470.00  3470.00  3470.00  3480.00
RE GRIDCART COARSE   ELEV 13  3490.00  3490.00  3490.00  3500.00
RE GRIDCART COARSE   ELEV 13  3500.00
RE GRIDCART COARSE   ELEV 14  3370.00  3380.00  3390.00  3400.00
RE GRIDCART COARSE   ELEV 14  3400.00  3410.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 14  3460.00  3470.00  3470.00  3470.00
RE GRIDCART COARSE   ELEV 14  3480.00  3480.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 14  3500.00
RE GRIDCART COARSE   ELEV 15  3360.00  3370.00  3380.00  3380.00
RE GRIDCART COARSE   ELEV 15  3400.00  3400.00  3410.00  3430.00
RE GRIDCART COARSE   ELEV 15  3460.00  3460.00  3460.00  3460.00
RE GRIDCART COARSE   ELEV 15  3470.00  3470.00  3470.00  3480.00
RE GRIDCART COARSE   ELEV 15  3510.00
RE GRIDCART COARSE   ELEV 16  3350.00  3360.00  3370.00  3380.00
RE GRIDCART COARSE   ELEV 16  3390.00  3400.00  3400.00  3430.00
RE GRIDCART COARSE   ELEV 16  3440.00  3450.00  3450.00  3440.00
RE GRIDCART COARSE   ELEV 16  3450.00  3460.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 16  3510.00
RE GRIDCART COARSE   ELEV 17  3350.00  3360.00  3360.00  3370.00
RE GRIDCART COARSE   ELEV 17  3380.00  3390.00  3400.00  3420.00
RE GRIDCART COARSE   ELEV 17  3420.00  3430.00  3430.00  3440.00
RE GRIDCART COARSE   ELEV 17  3450.00  3460.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 17  3510.00
```

```
RE GRIDCART COARSE   END

RE FINISHED

ME STARTING

ME INPUTFIL C:\MODELS\MET\CBD92.STR (7X,6F7.5)

ME ANEMHGHT   10.000 METERS

ME SURFDATA 11111 1992 CARLSBAD

ME UAIRDATA 11111 1992

ME STARDATA ANNUAL

ME AVESPEED   1.00   2.25   4.05   6.55   9.25  12.50

ME AVETEMPS ANNUAL 288.80 288.80 288.80 288.80 288.80 288.80

ME AVEMIXHT ANNUAL A 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL B 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL C 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL D 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL E 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL F 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME DTHETADZ A   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ B   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ C   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ D   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ E   0.01   0.01   0.01   0.01   0.01   0.01

ME DTHETADZ F   0.03   0.03   0.03   0.03   0.03   0.03

ME FINISHED

OU STARTING

OU RECTABLE SRCGRP

OU MAXTABLE 10 SRCGRP

OU PLOTFILE ANNUAL ALL C:\MODELS\ADM\ADMCC92A.GPH 70

OU FINISHED

***********************************
*** SETUP Finishes Successfully ***
***********************************
```

```
*** MODELING OPTIONS USED:  CONC   RURAL  ELEV   FLGPOL

                                       ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
-

**Model Is Setup For Calculation of Average CONCentration Values.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses NO plume DEPLETION.

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:
          1. Final Plume Rise.
          2. Stack-tip Downwash.
          3. Buoyancy-induced Dispersion.
          4. Default Wind Profile Exponents.
          5. User-Specified Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates   1 STAR Average(s) for the Following Months:  0  0  0  0  0  0  0  0  0  0  0  0
                                             Seasons/Quarters:  0  0  0  0
                                                  and Annual:  1

**Data File Includes  1 STAR Summaries for the Following Months:  0  0  0  0  0  0  0  0  0  0  0  0
                                             Seasons/Quarters:  0  0  0  0
                                                  and Annual:  1

**This Run Includes:    2 Source(s);      1 Source Group(s); and    289 Receptor(s)

**The Model Assumes A Pollutant Type of:  ANY

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
         Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
         Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)
         Model Outputs External File(s) of Long Term Values for Plotting (PLOTFILE Keyword)

**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    .0000     ;    Rot. Angle =      .0
                 Emission Units = GRAMS/SEC                                ;  Emission Rate Unit Factor =    .10000E+07
                 Output Units   = MICROGRAMS/M**3

**Input Runstream File: ADMCC92A.DAT                          ;  **Output Print File: ADMCC92A.LST
```

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
1	0	.10000E+00	.0	.0	1039.4	8.20	288.80	4.66	4.40	YES	
2	0	.10000E+00	.0	7.2	1039.4	8.20	288.80	4.66	4.40	YES	

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	1 , 2 ,

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	13.1,	0	4	.0,	.0,	0
5	6.6,	30.7,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	31.6,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	11.2,	13.1,	0	12	.0,	.0,	0
13	6.6,	30.7,	0	14	6.6,	30.7,	0	15	2.0,	7.3,	0	16	6.6,	31.6,	0

SOURCE ID: 2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	12.7,	0	4	.0,	.0,	0
5	6.6,	26.8,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	33.7,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	.0,	.0,	0	12	.0,	.0,	0
13	6.6,	26.8,	0	14	6.6,	33.4,	0	15	6.6,	35.0,	0	16	6.6,	33.7,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-3189.5,	-2789.5,	-2389.5,	-1989.5,	-1589.5,	-1189.5,	-789.5,	-389.5,	10.5,	410.5,
810.5,	1210.5,	1610.5,	2010.5,	2410.5,	2810.5,	3210.5,			

*** Y-COORDINATES OF GRID ***
(METERS)

-3469.8,	-3069.8,	-2669.8,	-2269.8,	-1869.8,	-1469.8,	-1069.8,	-669.8,	-269.8,	130.2,
530.2,	930.2,	1330.2,	1730.2,	2130.2,	2530.2,	2930.2,			

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	1021.08	1024.13	1024.13	1027.18	1030.22	1033.27	1036.32	1042.42	1042.42
2530.19	1021.08	1024.13	1027.18	1030.22	1033.27	1036.32	1036.32	1045.46	1048.51
2130.19	1024.13	1027.18	1030.22	1030.22	1036.32	1036.32	1039.37	1045.46	1054.61
1730.19	1027.18	1030.22	1033.27	1036.32	1036.32	1039.37	1042.42	1048.51	1054.61
1330.19	1030.22	1033.27	1036.32	1036.32	1036.32	1042.42	1045.46	1051.56	1057.66
930.19	1033.27	1036.32	1039.37	1039.37	1039.37	1042.42	1042.42	1048.51	1051.56
530.19	1036.32	1036.32	1039.37	1039.37	1039.37	1039.37	1039.37	1045.46	1045.46
130.19	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32
-269.81	1030.22	1030.22	1030.22	1030.22	1030.22	1030.22	1033.27	1036.32	1039.37
-669.81	1024.13	1021.08	1027.18	1027.18	1027.18	1030.22	1030.22	1033.27	1036.32
-1069.81	1021.08	1018.03	1021.08	1024.13	1021.08	1027.18	1030.22	1033.27	1036.32
-1469.81	1018.03	1014.98	1018.03	1021.08	1021.08	1024.13	1027.18	1030.22	1033.27
-1869.81	1014.98	1014.98	1018.03	1018.03	1018.03	1021.08	1024.13	1027.18	1030.22
-2269.81	1011.94	1014.98	1014.98	1018.03	1018.03	1021.08	1021.08	1024.13	1030.22
-2669.81	1011.94	1014.98	1014.98	1014.98	1018.03	1021.08	1021.08	1024.13	1027.18
-3069.81	1011.94	1011.94	1014.98	1014.98	1018.03	1018.03	1018.03	1018.03	1024.13
-3469.81	1008.89	1011.94	1011.94	1014.98	1014.98	1018.03	1014.98	1018.03	1018.03

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	1045.46	1045.46	1048.51	1051.56	1054.61	1060.70	1063.75	1069.85
2530.19	1051.56	1051.56	1048.51	1051.56	1054.61	1060.70	1063.75	1069.85
2130.19	1054.61	1054.61	1054.61	1057.66	1057.66	1057.66	1060.70	1069.85
1730.19	1057.66	1057.66	1057.66	1060.70	1060.70	1060.70	1063.75	1066.80
1330.19	1057.66	1057.66	1060.70	1063.75	1063.75	1063.75	1066.80	1066.80
930.19	1051.56	1054.61	1057.66	1066.80	1066.80	1066.80	1069.85	1072.90
530.19	1045.46	1051.56	1057.66	1063.75	1069.85	1069.85	1075.94	1078.99
130.19	1042.42	1048.51	1054.61	1060.70	1069.85	1072.90	1078.99	1078.99
-269.81	1042.42	1048.51	1051.56	1063.75	1066.80	1069.85	1075.94	1078.99
-669.81	1039.37	1045.46	1051.56	1060.70	1063.75	1066.80	1069.85	1072.90
-1069.81	1039.37	1042.42	1051.56	1060.70	1057.66	1060.70	1063.75	1066.80
-1469.81	1039.37	1042.42	1051.56	1057.66	1054.61	1057.66	1057.66	1057.66
-1869.81	1039.37	1042.42	1048.51	1057.66	1054.61	1051.56	1051.56	1051.56
-2269.81	1036.32	1039.37	1042.42	1051.56	1051.56	1048.51	1048.51	1048.51
-2669.81	1030.22	1036.32	1039.37	1042.42	1048.51	1048.51	1048.51	1048.51
-3069.81	1027.18	1030.22	1033.27	1039.37	1042.42	1054.61	1048.51	1045.46
-3469.81	1021.08	1027.18	1033.27	1036.32	1042.42	1048.51	1045.46	1042.42

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1730.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1330.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1869.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1730.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1330.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1869.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***
(METERS/SEC)

1.00, 2.25, 4.05, 6.55, 9.25, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01
F	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
ANNUAL	288.8000	288.8000	288.8000	288.8000	288.8000	288.8000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

			ANNUAL			
	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY B	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY C	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY D	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY E	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY F	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD92.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1992 YEAR: 1992

ANNUAL: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00025000	.00071000	.00000000	.00000000	.00000000	.00000000
22.500	.00029000	.00095000	.00000000	.00000000	.00000000	.00000000
45.000	.00035000	.00047000	.00000000	.00000000	.00000000	.00000000
67.500	.00037000	.00059000	.00000000	.00000000	.00000000	.00000000
90.000	.00042000	.00178000	.00000000	.00000000	.00000000	.00000000
112.500	.00034000	.00130000	.00000000	.00000000	.00000000	.00000000
135.000	.00052000	.00154000	.00000000	.00000000	.00000000	.00000000
157.500	.00032000	.00118000	.00000000	.00000000	.00000000	.00000000
180.000	.00039000	.00071000	.00000000	.00000000	.00000000	.00000000
202.500	.00006000	.00036000	.00000000	.00000000	.00000000	.00000000
225.000	.00019000	.00036000	.00000000	.00000000	.00000000	.00000000
247.500	.00006000	.00036000	.00000000	.00000000	.00000000	.00000000
270.000	.00006000	.00036000	.00000000	.00000000	.00000000	.00000000
292.500	.00007000	.00047000	.00000000	.00000000	.00000000	.00000000
315.000	.00004000	.00024000	.00000000	.00000000	.00000000	.00000000
337.500	.00031000	.00024000	.00000000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00124000	.00261000	.00201000	.00000000	.00000000	.00000000
22.500	.00093000	.00201000	.00107000	.00000000	.00000000	.00000000
45.000	.00073000	.00273000	.00059000	.00000000	.00000000	.00000000
67.500	.00114000	.00296000	.00095000	.00000000	.00000000	.00000000
90.000	.00204000	.00616000	.00273000	.00000000	.00000000	.00000000
112.500	.00115000	.00308000	.00284000	.00000000	.00000000	.00000000
135.000	.00123000	.00403000	.00355000	.00000000	.00000000	.00000000
157.500	.00156000	.00344000	.00201000	.00000000	.00000000	.00000000
180.000	.00091000	.00332000	.00190000	.00000000	.00000000	.00000000
202.500	.00065000	.00012000	.00047000	.00000000	.00000000	.00000000
225.000	.00020000	.00083000	.00024000	.00000000	.00000000	.00000000
247.500	.00019000	.00071000	.00036000	.00000000	.00000000	.00000000
270.000	.00044000	.00071000	.00059000	.00000000	.00000000	.00000000
292.500	.00042000	.00047000	.00036000	.00000000	.00000000	.00000000
315.000	.00049000	.00130000	.00036000	.00000000	.00000000	.00000000
337.500	.00079000	.00178000	.00083000	.00000000	.00000000	.00000000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD92.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1992 YEAR: 1992

ANNUAL: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00067000	.00273000	.00699000	.00095000	.00024000	.00000000
22.500	.00047000	.00367000	.00391000	.00024000	.00000000	.00000000
45.000	.00050000	.00201000	.00213000	.00036000	.00000000	.00000000
67.500	.00027000	.00237000	.00237000	.00036000	.00000000	.00000000
90.000	.00035000	.00367000	.00450000	.00083000	.00000000	.00000000
112.500	.00046000	.00355000	.00533000	.00190000	.00000000	.00000000
135.000	.00045000	.00545000	.01102000	.00308000	.00024000	.00000000
157.500	.00081000	.00308000	.00984000	.00237000	.00000000	.00000000
180.000	.00047000	.00367000	.00711000	.00166000	.00000000	.00000000
202.500	.00016000	.00059000	.00142000	.00024000	.00000000	.00000000
225.000	.00029000	.00071000	.00130000	.00024000	.00000000	.00000000
247.500	.00004000	.00071000	.00118000	.00059000	.00012000	.00000000
270.000	.00050000	.00213000	.00142000	.00130000	.00083000	.00024000
292.500	.00058000	.00130000	.00154000	.00047000	.00000000	.00000000
315.000	.00046000	.00142000	.00344000	.00130000	.00000000	.00000000
337.500	.00027000	.00237000	.00438000	.00130000	.00036000	.00000000

ANNUAL: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00040000	.00652000	.01244000	.01232000	.00308000	.00059000
22.500	.00046000	.00344000	.00403000	.00320000	.00024000	.00000000
45.000	.00057000	.00320000	.00296000	.00201000	.00012000	.00000000
67.500	.00054000	.00261000	.00296000	.00261000	.00012000	.00000000
90.000	.00061000	.00581000	.00462000	.00628000	.00012000	.00000000
112.500	.00063000	.00415000	.00841000	.00806000	.00095000	.00012000
135.000	.00083000	.00545000	.01600000	.01766000	.00130000	.00000000
157.500	.00103000	.00450000	.01517000	.01090000	.00012000	.00000000
180.000	.00027000	.00438000	.01161000	.01007000	.00083000	.00012000
202.500	.00009000	.00142000	.00355000	.00379000	.00059000	.00000000
225.000	.00029000	.00059000	.00379000	.00415000	.00036000	.00000000
247.500	.00010000	.00166000	.00510000	.00841000	.00462000	.00083000
270.000	.00014000	.00225000	.00652000	.02003000	.01149000	.00474000
292.500	.00022000	.00367000	.00557000	.01090000	.00379000	.00130000
315.000	.00044000	.00308000	.00640000	.01019000	.00296000	.00059000
337.500	.00039000	.00427000	.00723000	.01232000	.00510000	.00059000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD92.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1992 YEAR: 1992

ANNUAL: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00450000	.00415000	.00000000	.00000000	.00000000
22.500	.00000000	.00154000	.00036000	.00000000	.00000000	.00000000
45.000	.00000000	.00237000	.00059000	.00000000	.00000000	.00000000
67.500	.00000000	.00201000	.00190000	.00000000	.00000000	.00000000
90.000	.00000000	.00284000	.00284000	.00000000	.00000000	.00000000
112.500	.00000000	.00438000	.00332000	.00000000	.00000000	.00000000
135.000	.00000000	.00747000	.00806000	.00000000	.00000000	.00000000
157.500	.00000000	.00948000	.01505000	.00000000	.00000000	.00000000
180.000	.00000000	.00865000	.02145000	.00000000	.00000000	.00000000
202.500	.00000000	.00391000	.00960000	.00000000	.00000000	.00000000
225.000	.00000000	.00284000	.00521000	.00000000	.00000000	.00000000
247.500	.00000000	.00450000	.01066000	.00000000	.00000000	.00000000
270.000	.00000000	.00865000	.01967000	.00000000	.00000000	.00000000
292.500	.00000000	.00664000	.01612000	.00000000	.00000000	.00000000
315.000	.00000000	.00687000	.00640000	.00000000	.00000000	.00000000
337.500	.00000000	.00320000	.00403000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00298000	.00936000	.00000000	.00000000	.00000000	.00000000
22.500	.00238000	.00427000	.00000000	.00000000	.00000000	.00000000
45.000	.00155000	.00225000	.00000000	.00000000	.00000000	.00000000
67.500	.00134000	.00178000	.00000000	.00000000	.00000000	.00000000
90.000	.00245000	.00569000	.00000000	.00000000	.00000000	.00000000
112.500	.00214000	.00545000	.00000000	.00000000	.00000000	.00000000
135.000	.00388000	.00995000	.00000000	.00000000	.00000000	.00000000
157.500	.00524000	.01469000	.00000000	.00000000	.00000000	.00000000
180.000	.00448000	.01695000	.00000000	.00000000	.00000000	.00000000
202.500	.00396000	.00960000	.00000000	.00000000	.00000000	.00000000
225.000	.00204000	.00664000	.00000000	.00000000	.00000000	.00000000
247.500	.00322000	.00912000	.00000000	.00000000	.00000000	.00000000
270.000	.00428000	.01742000	.00000000	.00000000	.00000000	.00000000
292.500	.00555000	.01588000	.00000000	.00000000	.00000000	.00000000
315.000	.00466000	.01256000	.00000000	.00000000	.00000000	.00000000
337.500	.00208000	.00877000	.00000000	.00000000	.00000000	.00000000

SUM OF FREQUENCIES, FTOTAL = .99998

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	.027330	.033317	.037275	.044599	.053435	.063734	.074869	.090264	.093142
2530.19	.026870	.033866	.042381	.051777	.063539	.077760	.087226	.115360	.123151
2130.19	.027430	.035316	.046148	.055945	.075846	.088896	.111470	.144621	.157874
1730.19	.027063	.035632	.047924	.065875	.083954	.111033	.146387	.196268	.210358
1330.19	.025298	.034050	.047210	.063034	.086327	.139039	.198620	.268633	.305086
930.19	.027814	.034676	.044291	.058955	.085737	.143986	.220988	.378586	.496048
530.19	.030140	.035674	.046296	.057874	.074715	.105428	.194937	.503573	.910924
130.19	.030035	.035614	.043138	.053703	.069015	.093696	.139984	.252262	1.649730
-269.81	.023349	.026834	.031192	.036754	.043607	.052445	.068736	.115836	.489327
-669.81	.016587	.016898	.021453	.023216	.024571	.034758	.047039	.073413	.216893
-1069.81	.012089	.011738	.013724	.017496	.019282	.028111	.039275	.061869	.144413
-1469.81	.009382	.009947	.012157	.015101	.017565	.022820	.030073	.052940	.095015
-1869.81	.008474	.009475	.011424	.012908	.014863	.018751	.023678	.043389	.067980
-2269.81	.007596	.008947	.009916	.012053	.013726	.016894	.021829	.035396	.055667
-2669.81	.007214	.008400	.009360	.010493	.012668	.015295	.021323	.031632	.043119
-3069.81	.006825	.007499	.008872	.009821	.011673	.013577	.018778	.024337	.034423
-3469.81	.006155	.007169	.007848	.009193	.010011	.013534	.016448	.022043	.026171

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	.080924	.063599	.048285	.040622	.033769	.027844	.022898	.021460
2530.19	.098824	.073300	.054343	.044410	.035646	.028416	.026317	.025506
2130.19	.120068	.081346	.061650	.047699	.036674	.033436	.032015	.030172
1730.19	.147265	.093188	.069013	.049913	.044363	.041867	.038685	.035474
1330.19	.181911	.110348	.073926	.063300	.057885	.051852	.046209	.041297
930.19	.216612	.125704	.099645	.086842	.073984	.065349	.059407	.053582
530.19	.260264	.188162	.146313	.126399	.105859	.090290	.076871	.066255
130.19	.363926	.383500	.263674	.191204	.145207	.114985	.093773	.078396
-269.81	.333619	.387678	.271410	.197261	.149655	.118273	.096261	.080313
-669.81	.176695	.230217	.210681	.167564	.133585	.108747	.090223	.076301
-1069.81	.123678	.136590	.154004	.133171	.113121	.096176	.082117	.070839
-1469.81	.097529	.097535	.112426	.103736	.093047	.082255	.072549	.064259
-1869.81	.078066	.071390	.083577	.080992	.075749	.069455	.063119	.057141
-2269.81	.058823	.054619	.057091	.063902	.061754	.058448	.054522	.050406
-2669.81	.042494	.043711	.042489	.046574	.050814	.049244	.046953	.044277
-3069.81	.034225	.033264	.031560	.036201	.038842	.041689	.040476	.037742
-3469.81	.026189	.027634	.028400	.028718	.032829	.035527	.034062	.031761

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

** CONC OF ANY IN MICROGRAMS/M**3 **

RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE
1.	1.649730	AT (	10.47,	130.19)	GC	6.	.387678	AT (	810.47,	-269.81)	GC
2.	.910924	AT (	10.47,	530.19)	GC	7.	.383500	AT (	810.47,	130.19)	GC
3.	.503573	AT (	-389.53,	530.19)	GC	8.	.378586	AT (	-389.53,	930.19)	GC
4.	.496048	AT (	10.47,	930.19)	GC	9.	.363926	AT (	410.47,	130.19)	GC
5.	.489327	AT (	10.47,	-269.81)	GC	10.	.333619	AT (	410.47,	-269.81)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** Message Summary : ISCLT3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 0 Informational Message(s)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCLT3 Finishes Successfully ***
****

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*** TRINITY DOWNWASH FILE NAME: C:\MODELS\EXFAN.WAK
CO STARTING
CO TITLEONE CONCENTRATIONS AT THE WIPP SITE BOUNDARY (93 Carlsbad Met)
CO TITLETWO Coarse Receptor Grid(400x400m)/1000 µg/m^3 SrcConc
CO MODELOPT CONC RURAL
CO AVERTIME ANNUAL
CO POLLUTID ANY
CO TERRHGTS ELEV
CO FLAGPOLE 1.500000
CO RUNORNOT RUN
CO FINISHED
SO STARTING
SO LOCATION 1 POINT       0.00       0.00    1039.37
SO SRCPARAM 1 0.100000       8.20     288.80     4.6598      4.400
SO LOCATION 2 POINT       0.00       7.20    1039.37
SO SRCPARAM 2 0.100000       8.20     288.80     4.6598      4.400
SO BUILDHGT 1    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 1     6.55     6.55     0.00     0.00    11.22     0.00
SO BUILDHGT 1     6.55     6.55     2.04     6.55
SO BUILDWID  1             10.51    11.82    13.05      .00    30.72    33.44
SO BUILDWID  1             34.97    31.62      .00      .00    13.05      .00
SO BUILDWID  1             30.72    30.72     7.29    31.62
SO BUILDHGT 2    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 2     6.55     6.55     0.00     0.00     0.00     0.00
SO BUILDHGT 2     6.55     6.55     6.55     6.55
SO BUILDWID  2             10.51    11.82    12.68      .00    26.82    33.44
SO BUILDWID  2             34.97    33.72      .00      .00      .00      .00
SO BUILDWID  2             26.82    33.44    34.97    33.72
SO EMISUNIT 1000000.000000 GRAMS/SEC MICROGRAMS/M**3
SO SRCGROUP ALL
SO FINISHED
RE STARTING
RE ELEVUNIT FEET
RE GRIDCART COARSE   STA
RE GRIDCART COARSE   XYINC -3189.53 17 400.00 -3469.81 17 400.00
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50
RE GRIDCART COARSE   FLAG 2     1.50     1.50     1.50     1.50
```

RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50			
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50			
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50			
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50			
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50			
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50			
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50			
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50			
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50

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RE GRIDCART COARSE   FLAG 10     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10     1.50
RE GRIDCART COARSE   FLAG 11     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11     1.50
RE GRIDCART COARSE   FLAG 12     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 12     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 12     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 12     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 12     1.50
RE GRIDCART COARSE   FLAG 13     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 13     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 13     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 13     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 13     1.50
RE GRIDCART COARSE   FLAG 14     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 14     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 14     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 14     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 14     1.50
RE GRIDCART COARSE   FLAG 15     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 15     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 15     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 15     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 15     1.50
RE GRIDCART COARSE   FLAG 16     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 16     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 16     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 16     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 16     1.50
RE GRIDCART COARSE   FLAG 17     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 17     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 17     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 17     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 17     1.50
RE GRIDCART COARSE   ELEV 1   3310.00   3320.00   3320.00   3330.00
RE GRIDCART COARSE   ELEV 1   3330.00   3340.00   3330.00   3340.00
RE GRIDCART COARSE   ELEV 1   3340.00   3350.00   3370.00   3390.00
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RE GRIDCART COARSE   ELEV 1  3400.00  3420.00  3440.00  3430.00
RE GRIDCART COARSE   ELEV 1  3420.00
RE GRIDCART COARSE   ELEV 2  3320.00  3320.00  3330.00  3330.00
RE GRIDCART COARSE   ELEV 2  3340.00  3340.00  3340.00  3340.00
RE GRIDCART COARSE   ELEV 2  3360.00  3370.00  3380.00  3390.00
RE GRIDCART COARSE   ELEV 2  3410.00  3420.00  3460.00  3440.00
RE GRIDCART COARSE   ELEV 2  3430.00
RE GRIDCART COARSE   ELEV 3  3320.00  3330.00  3330.00  3330.00
RE GRIDCART COARSE   ELEV 3  3340.00  3350.00  3350.00  3360.00
RE GRIDCART COARSE   ELEV 3  3370.00  3380.00  3400.00  3410.00
RE GRIDCART COARSE   ELEV 3  3420.00  3440.00  3440.00  3440.00
RE GRIDCART COARSE   ELEV 3  3440.00
RE GRIDCART COARSE   ELEV 4  3320.00  3330.00  3330.00  3340.00
RE GRIDCART COARSE   ELEV 4  3340.00  3350.00  3350.00  3360.00
RE GRIDCART COARSE   ELEV 4  3380.00  3400.00  3410.00  3420.00
RE GRIDCART COARSE   ELEV 4  3450.00  3450.00  3440.00  3440.00
RE GRIDCART COARSE   ELEV 4  3440.00
RE GRIDCART COARSE   ELEV 5  3330.00  3330.00  3340.00  3340.00
RE GRIDCART COARSE   ELEV 5  3340.00  3350.00  3360.00  3370.00
RE GRIDCART COARSE   ELEV 5  3380.00  3410.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 5  3470.00  3460.00  3450.00  3450.00
RE GRIDCART COARSE   ELEV 5  3450.00
RE GRIDCART COARSE   ELEV 6  3340.00  3330.00  3340.00  3350.00
RE GRIDCART COARSE   ELEV 6  3350.00  3360.00  3370.00  3380.00
RE GRIDCART COARSE   ELEV 6  3390.00  3410.00  3420.00  3450.00
RE GRIDCART COARSE   ELEV 6  3470.00  3460.00  3470.00  3470.00
RE GRIDCART COARSE   ELEV 6  3470.00
RE GRIDCART COARSE   ELEV 7  3350.00  3340.00  3350.00  3360.00
RE GRIDCART COARSE   ELEV 7  3350.00  3370.00  3380.00  3390.00
RE GRIDCART COARSE   ELEV 7  3400.00  3410.00  3420.00  3450.00
RE GRIDCART COARSE   ELEV 7  3480.00  3470.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 7  3500.00
RE GRIDCART COARSE   ELEV 8  3360.00  3350.00  3370.00  3370.00
RE GRIDCART COARSE   ELEV 8  3370.00  3380.00  3380.00  3390.00
RE GRIDCART COARSE   ELEV 8  3400.00  3410.00  3430.00  3450.00
RE GRIDCART COARSE   ELEV 8  3480.00  3490.00  3500.00  3510.00
RE GRIDCART COARSE   ELEV 8  3520.00
RE GRIDCART COARSE   ELEV 9  3380.00  3380.00  3380.00  3380.00
RE GRIDCART COARSE   ELEV 9  3380.00  3380.00  3390.00  3400.00
RE GRIDCART COARSE   ELEV 9  3410.00  3420.00  3440.00  3450.00
RE GRIDCART COARSE   ELEV 9  3490.00  3500.00  3510.00  3530.00
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RE GRIDCART COARSE   ELEV 9  3540.00
RE GRIDCART COARSE   ELEV 10  3400.00  3400.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 10  3400.00  3400.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 10  3400.00  3420.00  3440.00  3460.00
RE GRIDCART COARSE   ELEV 10  3480.00  3510.00  3520.00  3540.00
RE GRIDCART COARSE   ELEV 10  3540.00
RE GRIDCART COARSE   ELEV 11  3400.00  3400.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3430.00
RE GRIDCART COARSE   ELEV 11  3430.00  3430.00  3450.00  3470.00
RE GRIDCART COARSE   ELEV 11  3490.00  3510.00  3510.00  3530.00
RE GRIDCART COARSE   ELEV 11  3540.00
RE GRIDCART COARSE   ELEV 12  3390.00  3400.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 12  3410.00  3420.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 12  3450.00  3450.00  3460.00  3470.00
RE GRIDCART COARSE   ELEV 12  3500.00  3500.00  3500.00  3510.00
RE GRIDCART COARSE   ELEV 12  3520.00
RE GRIDCART COARSE   ELEV 13  3380.00  3390.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 13  3400.00  3420.00  3430.00  3450.00
RE GRIDCART COARSE   ELEV 13  3470.00  3470.00  3470.00  3480.00
RE GRIDCART COARSE   ELEV 13  3490.00  3490.00  3490.00  3500.00
RE GRIDCART COARSE   ELEV 13  3500.00
RE GRIDCART COARSE   ELEV 14  3370.00  3380.00  3390.00  3400.00
RE GRIDCART COARSE   ELEV 14  3400.00  3410.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 14  3460.00  3470.00  3470.00  3470.00
RE GRIDCART COARSE   ELEV 14  3480.00  3480.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 14  3500.00
RE GRIDCART COARSE   ELEV 15  3360.00  3370.00  3380.00  3380.00
RE GRIDCART COARSE   ELEV 15  3400.00  3400.00  3410.00  3430.00
RE GRIDCART COARSE   ELEV 15  3460.00  3460.00  3460.00  3460.00
RE GRIDCART COARSE   ELEV 15  3470.00  3470.00  3470.00  3480.00
RE GRIDCART COARSE   ELEV 15  3510.00
RE GRIDCART COARSE   ELEV 16  3350.00  3360.00  3370.00  3380.00
RE GRIDCART COARSE   ELEV 16  3390.00  3400.00  3400.00  3430.00
RE GRIDCART COARSE   ELEV 16  3440.00  3450.00  3450.00  3440.00
RE GRIDCART COARSE   ELEV 16  3450.00  3460.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 16  3510.00
RE GRIDCART COARSE   ELEV 17  3350.00  3360.00  3360.00  3370.00
RE GRIDCART COARSE   ELEV 17  3380.00  3390.00  3400.00  3420.00
RE GRIDCART COARSE   ELEV 17  3420.00  3430.00  3430.00  3440.00
RE GRIDCART COARSE   ELEV 17  3450.00  3460.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 17  3510.00
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RE GRIDCART COARSE   END

RE FINISHED

ME STARTING

ME INPUTFIL C:\MODELS\MET\CBD93.STR (7X,6F7.5)

ME ANEMHGHT   10.000 METERS

ME SURFDATA 11111 1993 CARLSBAD

ME UAIRDATA 11111 1993

ME STARDATA ANNUAL

ME AVESPEED   1.00   2.25   4.05   6.55   9.25  12.50

ME AVETEMPS ANNUAL 288.80 288.80 288.80 288.80 288.80 288.80

ME AVEMIXHT ANNUAL A 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL B 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL C 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL D 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL E 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL F 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME DTHETADZ A   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ B   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ C   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ D   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ E   0.01   0.01   0.01   0.01   0.01   0.01

ME DTHETADZ F   0.03   0.03   0.03   0.03   0.03   0.03

ME FINISHED

OU STARTING

OU RECTABLE SRCGRP

OU MAXTABLE 10 SRCGRP

OU PLOTFILE ANNUAL ALL C:\MODELS\ADM\ADMCC93A.GPH 70

OU FINISHED

************************************
*** SETUP Finishes Successfully ***
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1
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*** MODELING OPTIONS USED:  CONC    RURAL  ELEV    FLGPOL

                                 ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
-

**Model Is Setup For Calculation of Average CONCentration Values.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses NO plume DEPLETION.

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:
          1. Final Plume Rise.
          2. Stack-tip Downwash.
          3. Buoyancy-induced Dispersion.
          4. Default Wind Profile Exponents.
          5. User-Specified Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates   1 STAR Average(s) for the Following Months:  0  0  0  0  0  0  0  0  0  0  0  0
                                               Seasons/Quarters:  0  0  0  0
                                                     and Annual:  1

**Data File Includes  1 STAR Summaries for the Following Months:  0  0  0  0  0  0  0  0  0  0  0  0
                                               Seasons/Quarters:  0  0  0  0
                                                     and Annual:  1

**This Run Includes:    2 Source(s);      1 Source Group(s); and    289 Receptor(s)

**The Model Assumes A Pollutant Type of:  ANY

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
        Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
        Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)
        Model Outputs External File(s) of Long Term Values for Plotting (PLOTFILE Keyword)

**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    .0000     ;    Rot. Angle =      .0
                 Emission Units = GRAMS/SEC                                ;  Emission Rate Unit Factor =    .10000E+07
                 Output Units   = MICROGRAMS/M**3

**Input Runstream File: ADMCC93A.DAT                         ;  **Output Print File: ADMCC93A.LST
```

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
1	0	.10000E+00	.0	.0	1039.4	8.20	288.80	4.66	4.40	YES	
2	0	.10000E+00	.0	7.2	1039.4	8.20	288.80	4.66	4.40	YES	

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	1 , 2 ,

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	13.1,	0	4	.0,	.0,	0
5	6.6,	30.7,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	31.6,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	11.2,	13.1,	0	12	.0,	.0,	0
13	6.6,	30.7,	0	14	6.6,	30.7,	0	15	2.0,	7.3,	0	16	6.6,	31.6,	0

SOURCE ID: 2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	12.7,	0	4	.0,	.0,	0
5	6.6,	26.8,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	33.7,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	.0,	.0,	0	12	.0,	.0,	0
13	6.6,	26.8,	0	14	6.6,	33.4,	0	15	6.6,	35.0,	0	16	6.6,	33.7,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-3189.5,	-2789.5,	-2389.5,	-1989.5,	-1589.5,	-1189.5,	-789.5,	-389.5,	10.5,	410.5,
810.5,	1210.5,	1610.5,	2010.5,	2410.5,	2810.5,	3210.5,			

*** Y-COORDINATES OF GRID ***
(METERS)

-3469.8,	-3069.8,	-2669.8,	-2269.8,	-1869.8,	-1469.8,	-1069.8,	-669.8,	-269.8,	130.2,
530.2,	930.2,	1330.2,	1730.2,	2130.2,	2530.2,	2930.2,			

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	1021.08	1024.13	1024.13	1027.18	1030.22	1033.27	1036.32	1042.42	1042.42
2530.19	1021.08	1024.13	1027.18	1030.22	1033.27	1036.32	1036.32	1045.46	1048.51
2130.19	1024.13	1027.18	1030.22	1030.22	1036.32	1036.32	1039.37	1045.46	1054.61
1730.19	1027.18	1030.22	1033.27	1036.32	1036.32	1039.37	1042.42	1048.51	1054.61
1330.19	1030.22	1033.27	1036.32	1036.32	1036.32	1042.42	1045.46	1051.56	1057.66
930.19	1033.27	1036.32	1039.37	1039.37	1039.37	1042.42	1042.42	1048.51	1051.56
530.19	1036.32	1036.32	1039.37	1039.37	1039.37	1039.37	1039.37	1045.46	1045.46
130.19	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32
-269.81	1030.22	1030.22	1030.22	1030.22	1030.22	1030.22	1033.27	1036.32	1039.37
-669.81	1024.13	1021.08	1027.18	1027.18	1027.18	1030.22	1030.22	1033.27	1036.32
-1069.81	1021.08	1018.03	1021.08	1024.13	1021.08	1027.18	1030.22	1033.27	1036.32
-1469.81	1018.03	1014.98	1018.03	1021.08	1021.08	1024.13	1027.18	1030.22	1033.27
-1869.81	1014.98	1014.98	1018.03	1018.03	1018.03	1021.08	1024.13	1027.18	1030.22
-2269.81	1011.94	1014.98	1014.98	1018.03	1018.03	1021.08	1021.08	1024.13	1030.22
-2669.81	1011.94	1014.98	1014.98	1014.98	1018.03	1021.08	1021.08	1024.13	1027.18
-3069.81	1011.94	1011.94	1014.98	1014.98	1018.03	1018.03	1018.03	1018.03	1024.13
-3469.81	1008.89	1011.94	1011.94	1014.98	1014.98	1018.03	1014.98	1018.03	1018.03

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	1045.46	1045.46	1048.51	1051.56	1054.61	1060.70	1063.75	1069.85
2530.19	1051.56	1051.56	1048.51	1051.56	1054.61	1060.70	1063.75	1069.85
2130.19	1054.61	1054.61	1054.61	1057.66	1057.66	1057.66	1060.70	1069.85
1730.19	1057.66	1057.66	1057.66	1060.70	1060.70	1060.70	1063.75	1066.80
1330.19	1057.66	1057.66	1060.70	1063.75	1063.75	1063.75	1066.80	1066.80
930.19	1051.56	1054.61	1057.66	1066.80	1066.80	1066.80	1069.85	1072.90
530.19	1045.46	1051.56	1057.66	1063.75	1069.85	1069.85	1075.94	1078.99
130.19	1042.42	1048.51	1054.61	1060.70	1069.85	1072.90	1078.99	1078.99
-269.81	1042.42	1048.51	1051.56	1063.75	1066.80	1069.85	1075.94	1078.99
-669.81	1039.37	1045.46	1051.56	1060.70	1063.75	1066.80	1069.85	1072.90
-1069.81	1039.37	1042.42	1051.56	1060.70	1057.66	1060.70	1063.75	1066.80
-1469.81	1039.37	1042.42	1051.56	1057.66	1054.61	1057.66	1057.66	1057.66
-1869.81	1039.37	1042.42	1048.51	1057.66	1054.61	1051.56	1051.56	1051.56
-2269.81	1036.32	1039.37	1042.42	1051.56	1051.56	1048.51	1048.51	1048.51
-2669.81	1030.22	1036.32	1039.37	1042.42	1048.51	1048.51	1048.51	1048.51
-3069.81	1027.18	1030.22	1033.27	1039.37	1042.42	1054.61	1048.51	1045.46
-3469.81	1021.08	1027.18	1033.27	1036.32	1042.42	1048.51	1045.46	1042.42

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1730.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1330.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1869.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1730.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1330.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1869.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***
(METERS/SEC)

1.00, 2.25, 4.05, 6.55, 9.25, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01
F	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
ANNUAL	288.8000	288.8000	288.8000	288.8000	288.8000	288.8000

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	ANNUAL WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY B	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY C	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY D	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY E	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY F	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD93.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1993 YEAR: 1993

ANNUAL: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00049000	.00047000	.00000000	.00000000	.00000000	.00000000
22.500	.00026000	.00071000	.00000000	.00000000	.00000000	.00000000
45.000	.00020000	.00035000	.00000000	.00000000	.00000000	.00000000
67.500	.00035000	.00047000	.00000000	.00000000	.00000000	.00000000
90.000	.00016000	.00095000	.00000000	.00000000	.00000000	.00000000
112.500	.00014000	.00083000	.00000000	.00000000	.00000000	.00000000
135.000	.00010000	.00059000	.00000000	.00000000	.00000000	.00000000
157.500	.00008000	.00047000	.00000000	.00000000	.00000000	.00000000
180.000	.00008000	.00047000	.00000000	.00000000	.00000000	.00000000
202.500	.00006000	.00035000	.00000000	.00000000	.00000000	.00000000
225.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
247.500	.00004000	.00024000	.00000000	.00000000	.00000000	.00000000
270.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
292.500	.00002000	.00012000	.00000000	.00000000	.00000000	.00000000
315.000	.00020000	.00035000	.00000000	.00000000	.00000000	.00000000
337.500	.00008000	.00047000	.00000000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00136000	.00213000	.00248000	.00000000	.00000000	.00000000
22.500	.00041000	.00296000	.00142000	.00000000	.00000000	.00000000
45.000	.00098000	.00201000	.00083000	.00000000	.00000000	.00000000
67.500	.00125000	.00248000	.00106000	.00000000	.00000000	.00000000
90.000	.00137000	.00473000	.00166000	.00000000	.00000000	.00000000
112.500	.00055000	.00331000	.00260000	.00000000	.00000000	.00000000
135.000	.00071000	.00390000	.00343000	.00000000	.00000000	.00000000
157.500	.00101000	.00485000	.00367000	.00000000	.00000000	.00000000
180.000	.00091000	.00296000	.00379000	.00000000	.00000000	.00000000
202.500	.00028000	.00059000	.00047000	.00000000	.00000000	.00000000
225.000	.00014000	.00035000	.00024000	.00000000	.00000000	.00000000
247.500	.00042000	.00083000	.00035000	.00000000	.00000000	.00000000
270.000	.00027000	.00047000	.00047000	.00000000	.00000000	.00000000
292.500	.00029000	.00071000	.00024000	.00000000	.00000000	.00000000
315.000	.00026000	.00024000	.00024000	.00000000	.00000000	.00000000
337.500	.00020000	.00142000	.00130000	.00000000	.00000000	.00000000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD93.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111
NAME: CARLSBAD
YEAR: 1993

UPPER AIR STATION NO.: 11111
NAME: UNKNOWN
YEAR: 1993

ANNUAL: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00023000	.00379000	.00769000	.00142000	.00024000	.00000000
22.500	.00056000	.00296000	.00343000	.00083000	.00012000	.00000000
45.000	.00042000	.00272000	.00213000	.00024000	.00000000	.00000000
67.500	.00057000	.00308000	.00130000	.00035000	.00000000	.00000000
90.000	.00056000	.00296000	.00438000	.00095000	.00000000	.00000000
112.500	.00010000	.00166000	.00355000	.00166000	.00000000	.00000000
135.000	.00052000	.00426000	.01112000	.00402000	.00035000	.00000000
157.500	.00063000	.00414000	.01219000	.00331000	.00035000	.00000000
180.000	.00038000	.00414000	.01088000	.00402000	.00024000	.00000000
202.500	.00032000	.00106000	.00095000	.00035000	.00035000	.00000000
225.000	.00028000	.00047000	.00154000	.00012000	.00047000	.00000000
247.500	.00005000	.00083000	.00154000	.00130000	.00047000	.00035000
270.000	.00006000	.00095000	.00189000	.00189000	.00177000	.00035000
292.500	.00018000	.00095000	.00095000	.00012000	.00000000	.00000000
315.000	.00044000	.00106000	.00118000	.00047000	.00000000	.00000000
337.500	.00025000	.00201000	.00367000	.00154000	.00024000	.00000000

ANNUAL: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00055000	.00627000	.01088000	.01645000	.00355000	.00130000
22.500	.00006000	.00213000	.00402000	.00544000	.00106000	.00012000
45.000	.00019000	.00225000	.00260000	.00390000	.00000000	.00000000
67.500	.00020000	.00284000	.00319000	.00272000	.00024000	.00000000
90.000	.00050000	.00450000	.00639000	.00284000	.00000000	.00012000
112.500	.00046000	.00331000	.00911000	.00710000	.00059000	.00012000
135.000	.00037000	.00450000	.02011000	.02437000	.00213000	.00000000
157.500	.00031000	.00639000	.01952000	.02047000	.00035000	.00012000
180.000	.00043000	.00651000	.01633000	.01503000	.00154000	.00035000
202.500	.00004000	.00154000	.00450000	.00414000	.00047000	.00047000
225.000	.00003000	.00118000	.00414000	.00461000	.00142000	.00024000
247.500	.00014000	.00059000	.00556000	.02082000	.00663000	.00284000
270.000	.00007000	.00248000	.00580000	.02449000	.01195000	.00876000
292.500	.00043000	.00237000	.00355000	.00450000	.00047000	.00012000
315.000	.00018000	.00189000	.00319000	.00521000	.00083000	.00035000
337.500	.00017000	.00177000	.00722000	.01633000	.00213000	.00035000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD93.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1993 YEAR: 1993

ANNUAL: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00213000	.00603000	.00000000	.00000000	.00000000
22.500	.00000000	.00237000	.00248000	.00000000	.00000000	.00000000
45.000	.00000000	.00118000	.00166000	.00000000	.00000000	.00000000
67.500	.00000000	.00166000	.00189000	.00000000	.00000000	.00000000
90.000	.00000000	.00402000	.00154000	.00000000	.00000000	.00000000
112.500	.00000000	.00556000	.00379000	.00000000	.00000000	.00000000
135.000	.00000000	.00615000	.01041000	.00000000	.00000000	.00000000
157.500	.00000000	.00816000	.01313000	.00000000	.00000000	.00000000
180.000	.00000000	.01065000	.02236000	.00000000	.00000000	.00000000
202.500	.00000000	.00509000	.00899000	.00000000	.00000000	.00000000
225.000	.00000000	.00603000	.00615000	.00000000	.00000000	.00000000
247.500	.00000000	.00532000	.01029000	.00000000	.00000000	.00000000
270.000	.00000000	.00521000	.01230000	.00000000	.00000000	.00000000
292.500	.00000000	.00331000	.00899000	.00000000	.00000000	.00000000
315.000	.00000000	.00225000	.00509000	.00000000	.00000000	.00000000
337.500	.00000000	.00201000	.00473000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00286000	.01053000	.00000000	.00000000	.00000000	.00000000
22.500	.00118000	.00461000	.00000000	.00000000	.00000000	.00000000
45.000	.00162000	.00308000	.00000000	.00000000	.00000000	.00000000
67.500	.00154000	.00343000	.00000000	.00000000	.00000000	.00000000
90.000	.00189000	.00473000	.00000000	.00000000	.00000000	.00000000
112.500	.00134000	.00473000	.00000000	.00000000	.00000000	.00000000
135.000	.00215000	.00710000	.00000000	.00000000	.00000000	.00000000
157.500	.00548000	.01881000	.00000000	.00000000	.00000000	.00000000
180.000	.00448000	.01609000	.00000000	.00000000	.00000000	.00000000
202.500	.00308000	.00935000	.00000000	.00000000	.00000000	.00000000
225.000	.00150000	.00568000	.00000000	.00000000	.00000000	.00000000
247.500	.00300000	.01053000	.00000000	.00000000	.00000000	.00000000
270.000	.00454000	.01479000	.00000000	.00000000	.00000000	.00000000
292.500	.00363000	.01100000	.00000000	.00000000	.00000000	.00000000
315.000	.00343000	.00899000	.00000000	.00000000	.00000000	.00000000
337.500	.00217000	.00722000	.00000000	.00000000	.00000000	.00000000

SUM OF FREQUENCIES, FTOTAL = .99986

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	.025631	.031651	.037206	.046424	.058133	.072358	.084341	.100313	.102406
2530.19	.025209	.031808	.040458	.051914	.067125	.086715	.098770	.128454	.135031
2130.19	.025430	.032816	.042949	.053807	.076848	.096538	.126800	.161861	.173588
1730.19	.024731	.032689	.044113	.060826	.080780	.115448	.164823	.220882	.232365
1330.19	.022680	.030723	.042852	.058104	.081293	.134520	.213555	.305117	.338638
930.19	.024668	.030795	.039419	.053095	.078981	.135145	.224011	.435618	.554834
530.19	.026442	.031381	.040772	.051194	.066546	.095712	.191274	.548981	1.043133
130.19	.026100	.030984	.037576	.046835	.060246	.081616	.120537	.212560	2.107513
-269.81	.021046	.024313	.028445	.033790	.040518	.049485	.068268	.119985	.559448
-669.81	.015925	.016407	.021453	.023996	.026587	.036660	.048264	.079659	.232464
-1069.81	.012557	.012500	.014865	.018632	.019856	.028447	.040623	.065943	.150057
-1469.81	.010194	.010521	.012672	.015457	.017531	.023095	.031270	.055210	.097928
-1869.81	.008899	.009756	.011580	.012784	.014829	.019112	.024560	.044780	.069768
-2269.81	.007742	.008992	.009757	.011931	.013785	.017180	.022470	.036337	.056937
-2669.81	.007200	.008262	.009206	.010434	.012720	.015442	.021741	.032293	.044037
-3069.81	.006683	.007340	.008765	.009782	.011683	.013722	.019116	.024854	.035115
-3469.81	.005999	.007049	.007770	.009145	.010038	.013617	.016733	.022447	.026678

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	.086425	.065443	.046732	.039948	.033760	.028307	.023706	.022647
2530.19	.105091	.074299	.053164	.044304	.036271	.029510	.027913	.027482
2130.19	.127181	.080647	.061270	.048568	.038265	.035732	.034767	.033129
1730.19	.154928	.091930	.070206	.052388	.047900	.045939	.042906	.039640
1330.19	.188465	.111991	.078083	.069225	.064396	.058250	.052230	.046834
930.19	.217861	.134353	.111231	.098412	.084486	.072567	.062719	.054704
530.19	.283730	.217953	.170873	.134607	.107551	.087926	.073275	.062229
130.19	.456576	.363636	.239411	.170887	.128759	.101428	.082436	.068764
-269.81	.182143	.251154	.196432	.149834	.116850	.093981	.077441	.065224
-669.81	.136197	.139457	.129271	.103108	.088882	.076058	.065264	.056560
-1069.81	.111315	.094418	.096192	.082941	.070374	.059801	.052663	.047461
-1469.81	.091011	.076893	.076280	.065452	.058467	.051561	.045408	.040182
-1869.81	.074277	.061481	.062096	.054281	.048090	.043906	.039793	.035956
-2269.81	.056692	.049011	.045515	.045980	.041110	.037273	.034630	.031925
-2669.81	.041327	.040100	.035938	.035484	.035852	.032658	.030050	.028228
-3069.81	.033481	.030992	.027808	.029021	.028743	.029037	.026779	.024167
-3469.81	.025738	.026035	.025526	.024067	.025411	.025839	.023471	.020874

17
*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

** CONC OF ANY IN MICROGRAMS/M**3 **

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	2.107513	AT (	10.47,	130.19)	GC	6.	.456576	AT (	410.47,	130.19)	GC
2.	1.043133	AT (	10.47,	530.19)	GC	7.	.435618	AT (	-389.53,	930.19)	GC
3.	.559448	AT (	10.47,	-269.81)	GC	8.	.363636	AT (	810.47,	130.19)	GC
4.	.554834	AT (	10.47,	930.19)	GC	9.	.338638	AT (	10.47,	1330.19)	GC
5.	.548981	AT (	-389.53,	530.19)	GC	10.	.305117	AT (	-389.53,	1330.19)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

```
 *** MODELING OPTIONS USED:  CONC   RURAL  ELEV   FLGPOL


*** Message Summary : ISCLT3 Model Execution ***

 --------- Summary of Total Messages --------

A Total of           0 Fatal Error Message(s)
A Total of           0 Warning Message(s)
A Total of           0 Informational Message(s)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
              ***  NONE  ***


   ************************************
   *** ISCLT3 Finishes Successfully ***
   ************************************
```

```
*** TRINITY DOWNWASH FILE NAME: C:\MODELS\EXFAN.WAK
CO STARTING
CO TITLEONE CONCENTRATIONS AT THE WIPP SITE BOUNDARY (94 Carlsbad Met)
CO TITLETWO Coarse Receptor Grid(400x400m)/1000 µg/m^3 SrcConc
CO MODELOPT CONC RURAL
CO AVERTIME ANNUAL
CO POLLUTID ANY
CO TERRHGTS ELEV
CO FLAGPOLE 1.500000
CO RUNORNOT RUN
CO FINISHED
SO STARTING
SO LOCATION 1 POINT        0.00       0.00    1039.37
SO SRCPARAM 1 0.100000        8.20     288.80     4.6598      4.400
SO LOCATION 2 POINT        0.00       7.20    1039.37
SO SRCPARAM 2 0.100000        8.20     288.80     4.6598      4.400
SO BUILDHGT 1    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 1     6.55     6.55     0.00     0.00    11.22     0.00
SO BUILDHGT 1     6.55     6.55     2.04     6.55
SO BUILDWID  1             10.51    11.82    13.05      .00    30.72    33.44
SO BUILDWID  1             34.97    31.62      .00      .00    13.05      .00
SO BUILDWID  1             30.72    30.72     7.29    31.62
SO BUILDHGT 2    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 2     6.55     6.55     0.00     0.00     0.00     0.00
SO BUILDHGT 2     6.55     6.55     6.55     6.55
SO BUILDWID  2             10.51    11.82    12.68      .00    26.82    33.44
SO BUILDWID  2             34.97    33.72      .00      .00      .00      .00
SO BUILDWID  2             26.82    33.44    34.97    33.72
SO EMISUNIT 1000000.000000 GRAMS/SEC MICROGRAMS/M**3
SO SRCGROUP ALL
SO FINISHED
RE STARTING
RE ELEVUNIT FEET
RE GRIDCART COARSE   STA
RE GRIDCART COARSE   XYINC -3189.53 17 400.00 -3469.81 17 400.00
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50
RE GRIDCART COARSE   FLAG 2     1.50     1.50     1.50     1.50
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RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50			
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50			
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50			
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50			
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50			
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50			
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50			
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50			
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50

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RE GRIDCART COARSE   FLAG 10     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10     1.50
RE GRIDCART COARSE   FLAG 11     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11     1.50
RE GRIDCART COARSE   FLAG 12     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 12     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 12     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 12     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 12     1.50
RE GRIDCART COARSE   FLAG 13     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 13     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 13     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 13     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 13     1.50
RE GRIDCART COARSE   FLAG 14     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 14     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 14     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 14     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 14     1.50
RE GRIDCART COARSE   FLAG 15     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 15     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 15     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 15     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 15     1.50
RE GRIDCART COARSE   FLAG 16     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 16     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 16     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 16     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 16     1.50
RE GRIDCART COARSE   FLAG 17     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 17     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 17     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 17     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 17     1.50
RE GRIDCART COARSE   ELEV 1   3310.00  3320.00  3320.00  3330.00
RE GRIDCART COARSE   ELEV 1   3330.00  3340.00  3330.00  3340.00
RE GRIDCART COARSE   ELEV 1   3340.00  3350.00  3370.00  3390.00
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RE GRIDCART COARSE   ELEV 1  3400.00  3420.00  3440.00  3430.00
RE GRIDCART COARSE   ELEV 1  3420.00
RE GRIDCART COARSE   ELEV 2  3320.00  3320.00  3330.00  3330.00
RE GRIDCART COARSE   ELEV 2  3340.00  3340.00  3340.00  3340.00
RE GRIDCART COARSE   ELEV 2  3360.00  3370.00  3380.00  3390.00
RE GRIDCART COARSE   ELEV 2  3410.00  3420.00  3460.00  3440.00
RE GRIDCART COARSE   ELEV 2  3430.00
RE GRIDCART COARSE   ELEV 3  3320.00  3330.00  3330.00  3330.00
RE GRIDCART COARSE   ELEV 3  3340.00  3350.00  3350.00  3360.00
RE GRIDCART COARSE   ELEV 3  3370.00  3380.00  3400.00  3410.00
RE GRIDCART COARSE   ELEV 3  3420.00  3440.00  3440.00  3440.00
RE GRIDCART COARSE   ELEV 3  3440.00
RE GRIDCART COARSE   ELEV 4  3320.00  3330.00  3330.00  3340.00
RE GRIDCART COARSE   ELEV 4  3340.00  3350.00  3350.00  3360.00
RE GRIDCART COARSE   ELEV 4  3380.00  3400.00  3410.00  3420.00
RE GRIDCART COARSE   ELEV 4  3450.00  3450.00  3440.00  3440.00
RE GRIDCART COARSE   ELEV 4  3440.00
RE GRIDCART COARSE   ELEV 5  3330.00  3330.00  3340.00  3340.00
RE GRIDCART COARSE   ELEV 5  3340.00  3350.00  3360.00  3370.00
RE GRIDCART COARSE   ELEV 5  3380.00  3410.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 5  3470.00  3460.00  3450.00  3450.00
RE GRIDCART COARSE   ELEV 5  3450.00
RE GRIDCART COARSE   ELEV 6  3340.00  3330.00  3340.00  3350.00
RE GRIDCART COARSE   ELEV 6  3350.00  3360.00  3370.00  3380.00
RE GRIDCART COARSE   ELEV 6  3390.00  3410.00  3420.00  3450.00
RE GRIDCART COARSE   ELEV 6  3470.00  3460.00  3470.00  3470.00
RE GRIDCART COARSE   ELEV 6  3470.00
RE GRIDCART COARSE   ELEV 7  3350.00  3340.00  3350.00  3360.00
RE GRIDCART COARSE   ELEV 7  3350.00  3370.00  3380.00  3390.00
RE GRIDCART COARSE   ELEV 7  3400.00  3410.00  3420.00  3450.00
RE GRIDCART COARSE   ELEV 7  3480.00  3470.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 7  3500.00
RE GRIDCART COARSE   ELEV 8  3360.00  3350.00  3370.00  3370.00
RE GRIDCART COARSE   ELEV 8  3370.00  3380.00  3380.00  3390.00
RE GRIDCART COARSE   ELEV 8  3400.00  3410.00  3430.00  3450.00
RE GRIDCART COARSE   ELEV 8  3480.00  3490.00  3500.00  3510.00
RE GRIDCART COARSE   ELEV 8  3520.00
RE GRIDCART COARSE   ELEV 9  3380.00  3380.00  3380.00  3380.00
RE GRIDCART COARSE   ELEV 9  3380.00  3380.00  3390.00  3400.00
RE GRIDCART COARSE   ELEV 9  3410.00  3420.00  3440.00  3450.00
RE GRIDCART COARSE   ELEV 9  3490.00  3500.00  3510.00  3530.00
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RE GRIDCART COARSE   ELEV 9  3540.00
RE GRIDCART COARSE   ELEV 10  3400.00  3400.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 10  3400.00  3400.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 10  3400.00  3420.00  3440.00  3460.00
RE GRIDCART COARSE   ELEV 10  3480.00  3510.00  3520.00  3540.00
RE GRIDCART COARSE   ELEV 10  3540.00
RE GRIDCART COARSE   ELEV 11  3400.00  3400.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3430.00
RE GRIDCART COARSE   ELEV 11  3430.00  3430.00  3450.00  3470.00
RE GRIDCART COARSE   ELEV 11  3490.00  3510.00  3510.00  3530.00
RE GRIDCART COARSE   ELEV 11  3540.00
RE GRIDCART COARSE   ELEV 12  3390.00  3400.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 12  3410.00  3420.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 12  3450.00  3450.00  3460.00  3470.00
RE GRIDCART COARSE   ELEV 12  3500.00  3500.00  3500.00  3510.00
RE GRIDCART COARSE   ELEV 12  3520.00
RE GRIDCART COARSE   ELEV 13  3380.00  3390.00  3400.00  3400.00
RE GRIDCART COARSE   ELEV 13  3400.00  3420.00  3430.00  3450.00
RE GRIDCART COARSE   ELEV 13  3470.00  3470.00  3470.00  3480.00
RE GRIDCART COARSE   ELEV 13  3490.00  3490.00  3490.00  3500.00
RE GRIDCART COARSE   ELEV 13  3500.00
RE GRIDCART COARSE   ELEV 14  3370.00  3380.00  3390.00  3400.00
RE GRIDCART COARSE   ELEV 14  3400.00  3410.00  3420.00  3440.00
RE GRIDCART COARSE   ELEV 14  3460.00  3470.00  3470.00  3470.00
RE GRIDCART COARSE   ELEV 14  3480.00  3480.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 14  3500.00
RE GRIDCART COARSE   ELEV 15  3360.00  3370.00  3380.00  3380.00
RE GRIDCART COARSE   ELEV 15  3400.00  3400.00  3410.00  3430.00
RE GRIDCART COARSE   ELEV 15  3460.00  3460.00  3460.00  3460.00
RE GRIDCART COARSE   ELEV 15  3470.00  3470.00  3470.00  3480.00
RE GRIDCART COARSE   ELEV 15  3510.00
RE GRIDCART COARSE   ELEV 16  3350.00  3360.00  3370.00  3380.00
RE GRIDCART COARSE   ELEV 16  3390.00  3400.00  3400.00  3430.00
RE GRIDCART COARSE   ELEV 16  3440.00  3450.00  3450.00  3440.00
RE GRIDCART COARSE   ELEV 16  3450.00  3460.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 16  3510.00
RE GRIDCART COARSE   ELEV 17  3350.00  3360.00  3360.00  3370.00
RE GRIDCART COARSE   ELEV 17  3380.00  3390.00  3400.00  3420.00
RE GRIDCART COARSE   ELEV 17  3420.00  3430.00  3430.00  3440.00
RE GRIDCART COARSE   ELEV 17  3450.00  3460.00  3480.00  3490.00
RE GRIDCART COARSE   ELEV 17  3510.00
```

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RE GRIDCART COARSE   END

RE FINISHED

ME STARTING

ME INPUTFIL C:\MODELS\MET\CBD94.STR (7X,6F7.5)

ME ANEMHGHT   10.000 METERS

ME SURFDATA 11111 1994 CARLSBAD

ME UAIRDATA 11111 1994

ME STARDATA ANNUAL

ME AVESPEED   1.00   2.25   4.05   6.55   9.25  12.50

ME AVETEMPS ANNUAL 288.80 288.80 288.80 288.80 288.80 288.80

ME AVEMIXHT ANNUAL A 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL B 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL C 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL D 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL E 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME AVEMIXHT ANNUAL F 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00

ME DTHETADZ A   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ B   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ C   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ D   0.00   0.00   0.00   0.00   0.00   0.00

ME DTHETADZ E   0.01   0.01   0.01   0.01   0.01   0.01

ME DTHETADZ F   0.03   0.03   0.03   0.03   0.03   0.03

ME FINISHED

OU STARTING

OU RECTABLE SRCGRP

OU MAXTABLE 10 SRCGRP

OU PLOTFILE ANNUAL ALL C:\MODELS\ADM\ADMCC94A.GPH 70

OU FINISHED

***********************************
*** SETUP Finishes Successfully ***
***********************************
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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** MODEL SETUP OPTIONS SUMMARY ***

- -
-

**Model Is Setup For Calculation of Average CONCentration Values.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses NO plume DEPLETION.

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Default Wind Profile Exponents.
5. User-Specified Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates 1 STAR Average(s) for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**Data File Includes 1 STAR Summaries for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**This Run Includes: 2 Source(s); 1 Source Group(s); and 289 Receptor(s)

**The Model Assumes A Pollutant Type of: ANY

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)
Model Outputs External File(s) of Long Term Values for Plotting (PLOTFILE Keyword)

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = .0000 ; Rot. Angle = .0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = .10000E+07
Output Units = MICROGRAMS/M**3

**Input Runstream File: ADMCC94A.DAT ; **Output Print File: ADMCC94A.LST

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
1	0	.10000E+00	.0	.0	1039.4	8.20	288.80	4.66	4.40	YES	
2	0	.10000E+00	.0	7.2	1039.4	8.20	288.80	4.66	4.40	YES	

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	1 , 2 ,

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	13.1,	0	4	.0,	.0,	0
5	6.6,	30.7,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	31.6,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	11.2,	13.1,	0	12	.0,	.0,	0
13	6.6,	30.7,	0	14	6.6,	30.7,	0	15	2.0,	7.3,	0	16	6.6,	31.6,	0

SOURCE ID: 2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	12.7,	0	4	.0,	.0,	0
5	6.6,	26.8,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	33.7,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	.0,	.0,	0	12	.0,	.0,	0
13	6.6,	26.8,	0	14	6.6,	33.4,	0	15	6.6,	35.0,	0	16	6.6,	33.7,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-3189.5,	-2789.5,	-2389.5,	-1989.5,	-1589.5,	-1189.5,	-789.5,	-389.5,	10.5,	410.5,
810.5,	1210.5,	1610.5,	2010.5,	2410.5,	2810.5,	3210.5,			

*** Y-COORDINATES OF GRID ***
(METERS)

-3469.8,	-3069.8,	-2669.8,	-2269.8,	-1869.8,	-1469.8,	-1069.8,	-669.8,	-269.8,	130.2,
530.2,	930.2,	1330.2,	1730.2,	2130.2,	2530.2,	2930.2,			

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	1021.08	1024.13	1024.13	1027.18	1030.22	1033.27	1036.32	1042.42	1042.42
2530.19	1021.08	1024.13	1027.18	1030.22	1033.27	1036.32	1036.32	1045.46	1048.51
2130.19	1024.13	1027.18	1030.22	1030.22	1036.32	1036.32	1039.37	1045.46	1054.61
1730.19	1027.18	1030.22	1033.27	1036.32	1036.32	1039.37	1042.42	1048.51	1054.61
1330.19	1030.22	1033.27	1036.32	1036.32	1036.32	1042.42	1045.46	1051.56	1057.66
930.19	1033.27	1036.32	1039.37	1039.37	1039.37	1042.42	1042.42	1048.51	1051.56
530.19	1036.32	1036.32	1039.37	1039.37	1039.37	1039.37	1039.37	1045.46	1045.46
130.19	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32	1036.32
-269.81	1030.22	1030.22	1030.22	1030.22	1030.22	1030.22	1033.27	1036.32	1039.37
-669.81	1024.13	1021.08	1027.18	1027.18	1027.18	1030.22	1030.22	1033.27	1036.32
-1069.81	1021.08	1018.03	1021.08	1024.13	1021.08	1027.18	1030.22	1033.27	1036.32
-1469.81	1018.03	1014.98	1018.03	1021.08	1021.08	1024.13	1027.18	1030.22	1033.27
-1869.81	1014.98	1014.98	1018.03	1018.03	1018.03	1021.08	1024.13	1027.18	1030.22
-2269.81	1011.94	1014.98	1014.98	1018.03	1018.03	1021.08	1021.08	1024.13	1030.22
-2669.81	1011.94	1014.98	1014.98	1014.98	1018.03	1021.08	1021.08	1024.13	1027.18
-3069.81	1011.94	1011.94	1014.98	1014.98	1018.03	1018.03	1018.03	1018.03	1024.13
-3469.81	1008.89	1011.94	1011.94	1014.98	1014.98	1018.03	1014.98	1018.03	1018.03

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	1045.46	1045.46	1048.51	1051.56	1054.61	1060.70	1063.75	1069.85
2530.19	1051.56	1051.56	1048.51	1051.56	1054.61	1060.70	1063.75	1069.85
2130.19	1054.61	1054.61	1054.61	1057.66	1057.66	1057.66	1060.70	1069.85
1730.19	1057.66	1057.66	1057.66	1060.70	1060.70	1060.70	1063.75	1066.80
1330.19	1057.66	1057.66	1060.70	1063.75	1063.75	1063.75	1066.80	1066.80
930.19	1051.56	1054.61	1057.66	1066.80	1066.80	1066.80	1069.85	1072.90
530.19	1045.46	1051.56	1057.66	1063.75	1069.85	1069.85	1075.94	1078.99
130.19	1042.42	1048.51	1054.61	1060.70	1069.85	1072.90	1078.99	1078.99
-269.81	1042.42	1048.51	1051.56	1063.75	1066.80	1069.85	1075.94	1078.99
-669.81	1039.37	1045.46	1051.56	1060.70	1063.75	1066.80	1069.85	1072.90
-1069.81	1039.37	1042.42	1051.56	1060.70	1057.66	1060.70	1063.75	1066.80
-1469.81	1039.37	1042.42	1051.56	1057.66	1054.61	1057.66	1057.66	1057.66
-1869.81	1039.37	1042.42	1048.51	1057.66	1054.61	1051.56	1051.56	1051.56
-2269.81	1036.32	1039.37	1042.42	1051.56	1051.56	1048.51	1048.51	1048.51
-2669.81	1030.22	1036.32	1039.37	1042.42	1048.51	1048.51	1048.51	1048.51
-3069.81	1027.18	1030.22	1033.27	1039.37	1042.42	1054.61	1048.51	1045.46
-3469.81	1021.08	1027.18	1033.27	1036.32	1042.42	1048.51	1045.46	1042.42

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1730.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1330.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1869.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1730.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1330.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
930.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
530.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
130.19	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-1869.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2269.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-2669.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3069.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-3469.81	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***
(METERS/SEC)

1.00, 2.25, 4.05, 6.55, 9.25, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01
F	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
ANNUAL	288.8000	288.8000	288.8000	288.8000	288.8000	288.8000

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

	ANNUAL					
	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY B	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY C	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY D	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY E	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY F	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD94.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1994 YEAR: 1994

ANNUAL: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00017000	.00086000	.00000000	.00000000	.00000000	.00000000
22.500	.00028000	.00058000	.00000000	.00000000	.00000000	.00000000
45.000	.00023000	.00115000	.00000000	.00000000	.00000000	.00000000
67.500	.00057000	.00115000	.00000000	.00000000	.00000000	.00000000
90.000	.00031000	.00158000	.00000000	.00000000	.00000000	.00000000
112.500	.00020000	.00101000	.00000000	.00000000	.00000000	.00000000
135.000	.00028000	.00058000	.00000000	.00000000	.00000000	.00000000
157.500	.00031000	.00158000	.00000000	.00000000	.00000000	.00000000
180.000	.00063000	.00144000	.00000000	.00000000	.00000000	.00000000
202.500	.00026000	.00043000	.00000000	.00000000	.00000000	.00000000
225.000	.00026000	.00043000	.00000000	.00000000	.00000000	.00000000
247.500	.00003000	.00014000	.00000000	.00000000	.00000000	.00000000
270.000	.00003000	.00014000	.00000000	.00000000	.00000000	.00000000
292.500	.00023000	.00029000	.00000000	.00000000	.00000000	.00000000
315.000	.00023000	.00029000	.00000000	.00000000	.00000000	.00000000
337.500	.00003000	.00014000	.00000000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00093000	.00359000	.00244000	.00000000	.00000000	.00000000
22.500	.00089000	.00316000	.00144000	.00000000	.00000000	.00000000
45.000	.00120000	.00316000	.00115000	.00000000	.00000000	.00000000
67.500	.00125000	.00374000	.00115000	.00000000	.00000000	.00000000
90.000	.00116000	.00446000	.00302000	.00000000	.00000000	.00000000
112.500	.00119000	.00489000	.00331000	.00000000	.00000000	.00000000
135.000	.00178000	.00805000	.00633000	.00000000	.00000000	.00000000
157.500	.00121000	.00690000	.00561000	.00000000	.00000000	.00000000
180.000	.00110000	.00374000	.00374000	.00000000	.00000000	.00000000
202.500	.00001000	.00014000	.00043000	.00000000	.00000000	.00000000
225.000	.00002000	.00029000	.00029000	.00000000	.00000000	.00000000
247.500	.00068000	.00072000	.00029000	.00000000	.00000000	.00000000
270.000	.00023000	.00086000	.00043000	.00000000	.00000000	.00000000
292.500	.00032000	.00014000	.00014000	.00000000	.00000000	.00000000
315.000	.00054000	.00086000	.00058000	.00000000	.00000000	.00000000
337.500	.00041000	.00115000	.00058000	.00000000	.00000000	.00000000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD94.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111
NAME: CARLSBAD
YEAR: 1994

UPPER AIR STATION NO.: 11111
NAME: UNKNOWN
YEAR: 1994

ANNUAL: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00044000	.00403000	.00748000	.00173000	.00000000	.00000000
22.500	.00076000	.00259000	.00158000	.00058000	.00000000	.00000000
45.000	.00062000	.00273000	.00187000	.00029000	.00000000	.00000000
67.500	.00068000	.00187000	.00273000	.00058000	.00000000	.00000000
90.000	.00071000	.00359000	.00690000	.00187000	.00029000	.00000000
112.500	.00079000	.00288000	.00748000	.00359000	.00000000	.00000000
135.000	.00035000	.00316000	.01308000	.00719000	.00000000	.00000000
157.500	.00054000	.00489000	.01251000	.00518000	.00000000	.00000000
180.000	.00073000	.00230000	.00762000	.00345000	.00014000	.00000000
202.500	.00013000	.00115000	.00086000	.00029000	.00014000	.00000000
225.000	.00003000	.00029000	.00101000	.00058000	.00000000	.00000000
247.500	.00003000	.00029000	.00072000	.00072000	.00014000	.00029000
270.000	.00029000	.00115000	.00244000	.00216000	.00072000	.00058000
292.500	.00041000	.00086000	.00101000	.00029000	.00000000	.00000000
315.000	.00021000	.00043000	.00144000	.00029000	.00000000	.00000000
337.500	.00017000	.00158000	.00331000	.00144000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00059000	.00417000	.01352000	.01380000	.00273000	.00043000
22.500	.00019000	.00187000	.00388000	.00460000	.00144000	.00014000
45.000	.00022000	.00216000	.00532000	.00374000	.00043000	.00014000
67.500	.00074000	.00259000	.00388000	.00374000	.00058000	.00000000
90.000	.00077000	.00288000	.00676000	.00834000	.00129000	.00000000
112.500	.00051000	.00345000	.00820000	.01050000	.00129000	.00014000
135.000	.00038000	.00374000	.01481000	.02574000	.00316000	.00101000
157.500	.00095000	.00460000	.01107000	.01308000	.00072000	.00014000
180.000	.00089000	.00403000	.01869000	.01251000	.00072000	.00014000
202.500	.00015000	.00144000	.00661000	.00345000	.00144000	.00000000
225.000	.00041000	.00086000	.00489000	.00417000	.00129000	.00043000
247.500	.00029000	.00288000	.00604000	.01107000	.00604000	.00288000
270.000	.00046000	.00144000	.00561000	.01596000	.01050000	.00374000
292.500	.00016000	.00158000	.00446000	.00417000	.00173000	.00029000
315.000	.00022000	.00216000	.00388000	.00359000	.00187000	.00029000
337.500	.00025000	.00244000	.00791000	.01107000	.00359000	.00058000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD94.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1994 YEAR: 1994

ANNUAL: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00460000	.00690000	.00000000	.00000000	.00000000
22.500	.00000000	.00230000	.00187000	.00000000	.00000000	.00000000
45.000	.00000000	.00216000	.00086000	.00000000	.00000000	.00000000
67.500	.00000000	.00158000	.00115000	.00000000	.00000000	.00000000
90.000	.00000000	.00359000	.00331000	.00000000	.00000000	.00000000
112.500	.00000000	.00474000	.00676000	.00000000	.00000000	.00000000
135.000	.00000000	.00575000	.01395000	.00000000	.00000000	.00000000
157.500	.00000000	.00561000	.01265000	.00000000	.00000000	.00000000
180.000	.00000000	.00676000	.02631000	.00000000	.00000000	.00000000
202.500	.00000000	.00417000	.01222000	.00000000	.00000000	.00000000
225.000	.00000000	.00230000	.00561000	.00000000	.00000000	.00000000
247.500	.00000000	.00489000	.01050000	.00000000	.00000000	.00000000
270.000	.00000000	.00388000	.01035000	.00000000	.00000000	.00000000
292.500	.00000000	.00403000	.00848000	.00000000	.00000000	.00000000
315.000	.00000000	.00374000	.00403000	.00000000	.00000000	.00000000
337.500	.00000000	.00302000	.00359000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00240000	.00848000	.00000000	.00000000	.00000000	.00000000
22.500	.00140000	.00446000	.00000000	.00000000	.00000000	.00000000
45.000	.00081000	.00288000	.00000000	.00000000	.00000000	.00000000
67.500	.00115000	.00187000	.00000000	.00000000	.00000000	.00000000
90.000	.00210000	.00561000	.00000000	.00000000	.00000000	.00000000
112.500	.00145000	.00474000	.00000000	.00000000	.00000000	.00000000
135.000	.00228000	.00978000	.00000000	.00000000	.00000000	.00000000
157.500	.00402000	.01725000	.00000000	.00000000	.00000000	.00000000
180.000	.00542000	.02070000	.00000000	.00000000	.00000000	.00000000
202.500	.00266000	.01006000	.00000000	.00000000	.00000000	.00000000
225.000	.00169000	.00618000	.00000000	.00000000	.00000000	.00000000
247.500	.00261000	.01179000	.00000000	.00000000	.00000000	.00000000
270.000	.00517000	.01510000	.00000000	.00000000	.00000000	.00000000
292.500	.00307000	.01050000	.00000000	.00000000	.00000000	.00000000
315.000	.00286000	.00820000	.00000000	.00000000	.00000000	.00000000
337.500	.00203000	.00518000	.00000000	.00000000	.00000000	.00000000

SUM OF FREQUENCIES, FTOTAL = 1.00005

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -3189.53	-2789.53	-2389.53	-1989.53	-1589.53	-1189.53	-789.53	-389.53	10.47
2930.19	.027723	.033436	.036959	.043365	.050958	.060005	.076655	.099575	.109831
2530.19	.027553	.034492	.042668	.051068	.061385	.073591	.087275	.125846	.145124
2130.19	.028253	.036123	.046864	.056592	.074429	.085548	.107947	.155584	.185865
1730.19	.028043	.036658	.048948	.066797	.084782	.109022	.139422	.206617	.247315
1330.19	.026441	.035321	.048614	.065084	.089513	.140362	.193626	.273932	.358111
930.19	.028701	.035855	.045950	.061597	.090083	.150568	.229704	.364660	.581493
530.19	.030709	.036606	.047628	.060319	.079594	.115927	.219760	.542058	1.073149
130.19	.030349	.036133	.044010	.055229	.071921	.099782	.155454	.306972	2.181532
-269.81	.023709	.027359	.031977	.037963	.045580	.055891	.075811	.145016	.537889
-669.81	.017032	.017551	.022231	.024347	.026315	.038401	.055645	.079837	.232956
-1069.81	.012528	.012358	.014552	.018752	.021489	.031883	.042912	.062593	.149783
-1469.81	.009831	.010620	.013074	.016407	.019588	.024793	.030779	.053660	.097278
-1869.81	.008953	.010123	.012266	.014111	.016078	.019441	.023261	.043827	.069050
-2269.81	.008071	.009528	.010693	.012766	.014219	.016852	.021589	.035665	.055958
-2669.81	.007633	.008893	.009844	.010847	.012711	.014843	.021080	.031655	.043255
-3069.81	.007178	.007844	.009085	.009891	.011444	.013149	.018617	.024460	.034489
-3469.81	.006411	.007331	.007920	.009071	.009692	.013152	.016348	.022053	.026336

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 410.47	810.47	1210.47	1610.47	2010.47	2410.47	2810.47	3210.47
2930.19	.092410	.069271	.048529	.040260	.033000	.026811	.021707	.020889
2530.19	.112066	.078206	.054443	.043760	.034502	.026982	.025742	.025857
2130.19	.135086	.084342	.061461	.046499	.034905	.032915	.032784	.031738
1730.19	.163671	.094676	.068067	.047677	.044068	.043437	.041278	.038597
1330.19	.198338	.111082	.071057	.063701	.061162	.056382	.051191	.046294
930.19	.228190	.122524	.102463	.094213	.082534	.071201	.061214	.053227
530.19	.266195	.201395	.165671	.129905	.103377	.084401	.070318	.059728
130.19	.370747	.329572	.220979	.159321	.120821	.095606	.077972	.065218
-269.81	.182576	.238432	.183420	.140051	.109569	.088403	.073050	.061678
-669.81	.126557	.135363	.124135	.098541	.084218	.071905	.061701	.053518
-1069.81	.101700	.089039	.092056	.079143	.066985	.056807	.049911	.044931
-1469.81	.085012	.070388	.071574	.062326	.055584	.048944	.043044	.038044
-1869.81	.069840	.055239	.057089	.050974	.045653	.041638	.037695	.034025
-2269.81	.053691	.044612	.041394	.042496	.038610	.035305	.032775	.030190
-2669.81	.039526	.036975	.032380	.032502	.033234	.030662	.028411	.026674
-3069.81	.032140	.028955	.025163	.026361	.026442	.026962	.025132	.022848
-3469.81	.024902	.024497	.023294	.021718	.023155	.023767	.021846	.019647

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

** CONC OF ANY IN MICROGRAMS/M**3 **

RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE
1.	2.181532	AT (	10.47,	130.19)	GC	6.	.370747	AT (	410.47,	130.19)	GC
2.	1.073149	AT (	10.47,	530.19)	GC	7.	.364660	AT (	-389.53,	930.19)	GC
3.	.581493	AT (	10.47,	930.19)	GC	8.	.358111	AT (	10.47,	1330.19)	GC
4.	.542058	AT (	-389.53,	530.19)	GC	9.	.329572	AT (	810.47,	130.19)	GC
5.	.537889	AT (	10.47,	-269.81)	GC	10.	.306972	AT (	-389.53,	130.19)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** Message Summary : ISCLT3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 0 Informational Message(s)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCLT3 Finishes Successfully ***
****

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*** TRINITY DOWNWASH FILE NAME: C:\MODELS\EXFAN.WAK
CO STARTING
CO TITLEONE MAX CONCENTRATION AT WIPP SITE BOUNDARY (93 WIPP Met)
CO TITLETWO Fine Receptor Grid(10x10m)/1000 µg/m^3 SrcConc
CO MODELOPT CONC RURAL
CO AVERTIME ANNUAL
CO POLLUTID ANY
CO TERRHGTS ELEV
CO FLAGPOLE 1.500000
CO RUNORNOT RUN
CO FINISHED
SO STARTING
SO LOCATION 1 POINT       0.00       0.00    1039.37
SO SRCPARAM 1 0.100000       8.20     288.80     4.6598      4.400
SO LOCATION 2 POINT       0.00       7.20    1039.37
SO SRCPARAM 2 0.100000       8.20     288.80     4.6598      4.400
SO BUILDHGT 1    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 1     6.55     6.55     0.00     0.00    11.22     0.00
SO BUILDHGT 1     6.55     6.55     2.04     6.55
SO BUILDWID  1             10.51    11.82    13.05      .00    30.72    33.44
SO BUILDWID  1             34.97    31.62      .00      .00    13.05      .00
SO BUILDWID  1             30.72    30.72     7.29    31.62
SO BUILDHGT 2    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 2     6.55     6.55     0.00     0.00     0.00     0.00
SO BUILDHGT 2     6.55     6.55     6.55     6.55
SO BUILDWID  2             10.51    11.82    12.68      .00    26.82    33.44
SO BUILDWID  2             34.97    33.72      .00      .00      .00      .00
SO BUILDWID  2             26.82    33.44    34.97    33.72
SO EMISUNIT 1000000.000000 GRAMS/SEC MICROGRAMS/M**3
SO SRCGROUP ALL
SO FINISHED
RE STARTING
RE ELEVUNIT FEET
RE GRIDCART COARSE   STA
RE GRIDCART COARSE   XYINC -609.53 45 10.00 2974.73 11 10.00
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
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RE GRIDCART COARSE	FLAG 1	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 1	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 1	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 1	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 1	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 1	1.50			
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50			
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50			
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50

RE GRIDCART COARSE	FLAG 4	1.50			
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50			
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50			
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50			
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50

RE	GRIDCART	COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 8	1.50			
RE	GRIDCART	COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 9	1.50			
RE	GRIDCART	COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 10	1.50			
RE	GRIDCART	COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 11	1.50	1.50	1.50	1.50

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RE GRIDCART COARSE   FLAG 11     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11     1.50
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00
RE GRIDCART COARSE   ELEV 4  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 4  3410.00  3410.00  3410.00  3410.00
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RE GRIDCART COARSE	ELEV 4	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 4	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 4	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 4	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 4	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 4	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 4	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 4	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 4	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 4	3410.00			
RE GRIDCART COARSE	ELEV 5	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 5	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 5	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 5	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 5	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 5	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 5	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 5	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 5	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 5	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 5	3410.00			
RE GRIDCART COARSE	ELEV 6	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 6	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 6	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 6	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 6	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 6	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 6	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 6	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 6	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 6	3410.00			
RE GRIDCART COARSE	ELEV 7	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 7	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 7	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 7	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 7	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 7	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 7	3410.00	3410.00	3410.00	3410.00

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RE GRIDCART COARSE   ELEV 7  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 7  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 7  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 7  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 7  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00
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RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00
RE GRIDCART COARSE   END
RE FINISHED
ME STARTING
ME INPUTFIL C:\MODELS\MET\WP3093.STR  FREE
ME ANEMHGHT   10.000 METERS
ME SURFDATA 11111 1993 WIPP
ME UAIRDATA 11111 1993
ME STARDATA ANNUAL
ME AVESPEED   1.00   2.25   4.05   6.55   9.25  12.50
ME AVETEMPS ANNUAL 288.80 288.80 288.80 288.80 288.80 288.80
ME AVEMIXHT ANNUAL A 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL B 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL C 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL D 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL E 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL F 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME DTHETADZ A   0.00   0.00   0.00   0.00   0.00   0.00
ME DTHETADZ B   0.00   0.00   0.00   0.00   0.00   0.00
ME DTHETADZ C   0.00   0.00   0.00   0.00   0.00   0.00
ME DTHETADZ D   0.00   0.00   0.00   0.00   0.00   0.00
ME DTHETADZ E   0.01   0.01   0.01   0.01   0.01   0.01
ME DTHETADZ F   0.03   0.03   0.03   0.03   0.03   0.03
ME FINISHED
OU STARTING
OU RECTABLE SRCGRP
OU MAXTABLE 10 SRCGRP
OU PLOTFILE ANNUAL ALL C:\MODELS\ADM\ADMFW93B.GPH 70
OU FINISHED
***********************************
*** SETUP Finishes Successfully ***
```

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** MODEL SETUP OPTIONS SUMMARY ***

**Model Is Setup For Calculation of Average CONCentration Values.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses NO plume DEPLETION.

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Default Wind Profile Exponents.
5. User-Specified Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

```
**Model Calculates   1 STAR Average(s) for the Following Months:  0  0  0  0  0  0  0  0  0  0  0  0
                                          Seasons/Quarters:  0  0  0  0
                                                and Annual:  1

**Data File Includes  1 STAR Summaries for the Following Months:  0  0  0  0  0  0  0  0  0  0  0  0
                                          Seasons/Quarters:  0  0  0  0
                                                and Annual:  1
```

**This Run Includes: 2 Source(s); 1 Source Group(s); and 495 Receptor(s)

**The Model Assumes A Pollutant Type of: ANY

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)
Model Outputs External File(s) of Long Term Values for Plotting (PLOTFILE Keyword)

```
**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    .0000     ;    Rot. Angle =      .0
                 Emission Units = GRAMS/SEC                                ;  Emission Rate Unit Factor =    .10000E+07
                 Output Units   = MICROGRAMS/M**3
```

**Input Runstream File: ADMFW93B.DAT ; **Output Print File: ADMFW93B.LST

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
1	0	.10000E+00	.0	.0	1039.4	8.20	288.80	4.66	4.40	YES	
2	0	.10000E+00	.0	7.2	1039.4	8.20	288.80	4.66	4.40	YES	

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	1 , 2 ,

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	13.1,	0	4	.0,	.0,	0
5	6.6,	30.7,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	31.6,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	11.2,	13.1,	0	12	.0,	.0,	0
13	6.6,	30.7,	0	14	6.6,	30.7,	0	15	2.0,	7.3,	0	16	6.6,	31.6,	0

SOURCE ID: 2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	12.7,	0	4	.0,	.0,	0
5	6.6,	26.8,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	33.7,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	.0,	.0,	0	12	.0,	.0,	0
13	6.6,	26.8,	0	14	6.6,	33.4,	0	15	6.6,	35.0,	0	16	6.6,	33.7,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-609.5,	-599.5,	-589.5,	-579.5,	-569.5,	-559.5,	-549.5,	-539.5,	-529.5,	-519.5,
-509.5,	-499.5,	-489.5,	-479.5,	-469.5,	-459.5,	-449.5,	-439.5,	-429.5,	-419.5,
-409.5,	-399.5,	-389.5,	-379.5,	-369.5,	-359.5,	-349.5,	-339.5,	-329.5,	-319.5,
-309.5,	-299.5,	-289.5,	-279.5,	-269.5,	-259.5,	-249.5,	-239.5,	-229.5,	-219.5,
-209.5,	-199.5,	-189.5,	-179.5,	-169.5,					

*** Y-COORDINATES OF GRID ***
(METERS)

2974.7,	2984.7,	2994.7,	3004.7,	3014.7,	3024.7,	3034.7,	3044.7,	3054.7,	3064.7,
3074.7,									

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -609.53	-599.53	-589.53	-579.53	-569.53	-559.53	-549.53	-539.53	-529.53
3074.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3064.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3054.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3044.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3034.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3024.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3014.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3004.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
2994.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
2984.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
2974.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -519.53	-509.53	-499.53	-489.53	-479.53	-469.53	-459.53	-449.53	-439.53
3074.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3064.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3054.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3044.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3034.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3024.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3014.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3004.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
2994.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
2984.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
2974.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -429.53	-419.53	-409.53	-399.53	-389.53	-379.53	-369.53	-359.53	-349.53
3074.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3064.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3054.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3044.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3034.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3024.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3014.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3004.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
2994.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
2984.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
2974.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -339.53	-329.53	-319.53	-309.53	-299.53	-289.53	-279.53	-269.53	-259.53
3074.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3064.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3054.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3044.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3034.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3024.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3014.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3004.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
2994.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
2984.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
2974.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37

10
*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -249.53	-239.53	-229.53	-219.53	-209.53	-199.53	-189.53	-179.53	-169.53
3074.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3064.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3054.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3044.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3034.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3024.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3014.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
3004.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
2994.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
2984.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
2974.73	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -609.53	-599.53	-589.53	-579.53	-569.53	-559.53	-549.53	-539.53	-529.53
3074.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3064.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3054.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3044.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3034.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3024.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3014.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3004.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2994.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2984.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2974.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -519.53	-509.53	-499.53	-489.53	-479.53	-469.53	-459.53	-449.53	-439.53
3074.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3064.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3054.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3044.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3034.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3024.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3014.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3004.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2994.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2984.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2974.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -429.53	-419.53	-409.53	-399.53	-389.53	-379.53	-369.53	-359.53	-349.53
3074.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3064.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3054.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3044.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3034.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3024.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3014.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3004.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2994.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2984.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2974.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -339.53	-329.53	-319.53	-309.53	-299.53	-289.53	-279.53	-269.53	-259.53
3074.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3064.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3054.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3044.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3034.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3024.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3014.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3004.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2994.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2984.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2974.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -249.53	-239.53	-229.53	-219.53	-209.53	-199.53	-189.53	-179.53	-169.53
3074.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3064.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3054.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3044.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3034.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3024.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3014.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3004.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2994.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2984.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2974.73	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***
(METERS/SEC)

1.00, 2.25, 4.05, 6.55, 9.25, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01
F	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
ANNUAL	288.8000	288.8000	288.8000	288.8000	288.8000	288.8000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

	ANNUAL					
	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY B	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY C	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY D	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY E	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY F	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\WP3093.STR FORMAT: FREE

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: WIPP NAME: UNKNOWN
YEAR: 1993 YEAR: 1993

ANNUAL: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
22.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
45.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
67.500	.00000000	.00017000	.00000000	.00000000	.00000000	.00000000
90.000	.00019600	.00034000	.00000000	.00000000	.00000000	.00000000
112.500	.00000000	.00034000	.00000000	.00000000	.00000000	.00000000
135.000	.00019600	.00136200	.00000000	.00000000	.00000000	.00000000
157.500	.00039200	.00238300	.00000000	.00000000	.00000000	.00000000
180.000	.00195900	.00187200	.00000000	.00000000	.00000000	.00000000
202.500	.00195900	.00153200	.00000000	.00000000	.00000000	.00000000
225.000	.00215500	.00221300	.00000000	.00000000	.00000000	.00000000
247.500	.00195900	.00119100	.00000000	.00000000	.00000000	.00000000
270.000	.00078400	.00085100	.00000000	.00000000	.00000000	.00000000
292.500	.00000000	.00068100	.00000000	.00000000	.00000000	.00000000
315.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
337.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00019600	.00000000	.00000000	.00000000	.00000000	.00000000
22.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
45.000	.00058800	.00017000	.00051100	.00000000	.00000000	.00000000
67.500	.00078400	.00085100	.00017000	.00000000	.00000000	.00000000
90.000	.00156700	.00102100	.00051100	.00000000	.00000000	.00000000
112.500	.00333100	.00306400	.00255300	.00000000	.00000000	.00000000
135.000	.00293900	.00425500	.00425500	.00000000	.00000000	.00000000
157.500	.00293900	.00766000	.00680900	.00000000	.00000000	.00000000
180.000	.00411400	.00697900	.00510600	.00000000	.00000000	.00000000
202.500	.00489800	.00646800	.00306400	.00000000	.00000000	.00000000
225.000	.00391800	.00459600	.00187200	.00000000	.00000000	.00000000
247.500	.00509400	.00527700	.00153200	.00000000	.00000000	.00000000
270.000	.00117600	.00170200	.00204300	.00000000	.00000000	.00000000
292.500	.00098000	.00187200	.00221300	.00000000	.00000000	.00000000
315.000	.00098000	.00102100	.00119100	.00000000	.00000000	.00000000
337.500	.00000000	.00017000	.00000000	.00000000	.00000000	.00000000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\WP3093.STR FORMAT: FREE

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: WIPP NAME: UNKNOWN
YEAR: 1993 YEAR: 1993

ANNUAL: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00039200	.00034000	.00000000	.00000000	.00000000	.00000000
22.500	.00019600	.00034000	.00034000	.00000000	.00000000	.00000000
45.000	.00000000	.00068100	.00238300	.00000000	.00000000	.00000000
67.500	.00098000	.00085100	.00102100	.00000000	.00000000	.00000000
90.000	.00137100	.00136200	.00187200	.00000000	.00000000	.00000000
112.500	.00450600	.00391500	.00629800	.00034000	.00000000	.00000000
135.000	.00352700	.00544700	.01787200	.00442600	.00000000	.00000000
157.500	.00450600	.00425500	.01123400	.00289400	.00000000	.00000000
180.000	.00293900	.00595700	.01089400	.00340400	.00017000	.00000000
202.500	.00176300	.00459600	.00595700	.00017000	.00000000	.00000000
225.000	.00313500	.00425500	.00187200	.00017000	.00000000	.00000000
247.500	.00156700	.00340400	.00459600	.00170200	.00000000	.00000000
270.000	.00195900	.00289400	.00204300	.00170200	.00034000	.00000000
292.500	.00137100	.00153200	.00221300	.00000000	.00000000	.00000000
315.000	.00039200	.00136200	.00221300	.00051100	.00000000	.00000000
337.500	.00000000	.00017000	.00034000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00017000	.00017000	.00000000	.00000000	.00000000
22.500	.00000000	.00102100	.00119100	.00102100	.00034000	.00034000
45.000	.00039200	.00255300	.00493600	.00851100	.00153200	.00000000
67.500	.00078400	.00425500	.00595700	.00697900	.00068100	.00017000
90.000	.00313500	.00527700	.01293600	.00987200	.00119100	.00017000
112.500	.00372300	.01293600	.02706400	.01344700	.00136200	.00000000
135.000	.00372300	.01004300	.03285100	.04204300	.00306400	.00000000
157.500	.00176300	.00663800	.01855300	.01991500	.00238300	.00017000
180.000	.00274300	.00612800	.01072300	.00425500	.00051100	.00000000
202.500	.00117600	.00425500	.00731900	.00357400	.00000000	.00000000
225.000	.00019600	.00408500	.00510600	.00340400	.00136200	.00017000
247.500	.00058800	.00357400	.00595700	.01123400	.00306400	.00136200
270.000	.00058800	.00238300	.00527700	.00748900	.00357400	.00187200
292.500	.00039200	.00153200	.00221300	.00238300	.00102100	.00000000
315.000	.00000000	.00068100	.00204300	.00391500	.00136200	.00034000
337.500	.00000000	.00000000	.00034000	.00051100	.00000000	.00000000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\WP3093.STR FORMAT: FREE

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: WIPP NAME: UNKNOWN
YEAR: 1993 YEAR: 1993

ANNUAL: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00034000	.00034000	.00000000	.00000000	.00000000
22.500	.00000000	.00017000	.00034000	.00000000	.00000000	.00000000
45.000	.00000000	.00085100	.00187200	.00000000	.00000000	.00000000
67.500	.00000000	.00170200	.00272300	.00000000	.00000000	.00000000
90.000	.00000000	.00272300	.00783000	.00000000	.00000000	.00000000
112.500	.00000000	.00680900	.02314900	.00000000	.00000000	.00000000
135.000	.00000000	.01123400	.02961700	.00000000	.00000000	.00000000
157.500	.00000000	.00868100	.01038300	.00000000	.00000000	.00000000
180.000	.00000000	.00323400	.00238300	.00000000	.00000000	.00000000
202.500	.00000000	.00340400	.00068100	.00000000	.00000000	.00000000
225.000	.00000000	.00221300	.00119100	.00000000	.00000000	.00000000
247.500	.00000000	.00187200	.00442600	.00000000	.00000000	.00000000
270.000	.00000000	.00034000	.00272300	.00000000	.00000000	.00000000
292.500	.00000000	.00068100	.00204300	.00000000	.00000000	.00000000
315.000	.00000000	.00085100	.00170200	.00000000	.00000000	.00000000
337.500	.00000000	.00034000	.00085100	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00051100	.00000000	.00000000	.00000000	.00000000
22.500	.00039200	.00187200	.00000000	.00000000	.00000000	.00000000
45.000	.00156700	.00374500	.00000000	.00000000	.00000000	.00000000
67.500	.00313500	.00476600	.00000000	.00000000	.00000000	.00000000
90.000	.00607400	.00748900	.00000000	.00000000	.00000000	.00000000
112.500	.01097200	.02059600	.00000000	.00000000	.00000000	.00000000
135.000	.01195100	.02348900	.00000000	.00000000	.00000000	.00000000
157.500	.01136400	.01293600	.00000000	.00000000	.00000000	.00000000
180.000	.00881700	.00561700	.00000000	.00000000	.00000000	.00000000
202.500	.00607400	.00357400	.00000000	.00000000	.00000000	.00000000
225.000	.00470200	.00493600	.00000000	.00000000	.00000000	.00000000
247.500	.00450600	.00510600	.00000000	.00000000	.00000000	.00000000
270.000	.00254700	.00272300	.00000000	.00000000	.00000000	.00000000
292.500	.00176300	.00238300	.00000000	.00000000	.00000000	.00000000
315.000	.00195900	.00238300	.00000000	.00000000	.00000000	.00000000
337.500	.00058800	.00187200	.00000000	.00000000	.00000000	.00000000

SUM OF FREQUENCIES, FTOTAL = .99999

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -609.53	-599.53	-589.53	-579.53	-569.53	-559.53	-549.53	-539.53	-529.53
3074.73	.078429	.078223	.078015	.077806	.077595	.077381	.077167	.076950	.076731
3064.73	.078795	.078588	.078379	.078169	.077956	.077742	.077526	.077308	.077088
3054.73	.079164	.078956	.078746	.078534	.078321	.078105	.077888	.077669	.077448
3044.73	.079537	.079327	.079116	.078903	.078688	.078471	.078253	.078032	.077810
3034.73	.079912	.079701	.079489	.079275	.079058	.078840	.078620	.078399	.078175
3024.73	.080289	.080078	.079864	.079649	.079431	.079212	.078991	.078768	.078543
3014.73	.080670	.080457	.080243	.080026	.079808	.079587	.079365	.079141	.078914
3004.73	.081054	.080840	.080624	.080406	.080187	.079965	.079742	.079516	.079289
2994.73	.081441	.081226	.081009	.080790	.080569	.080346	.080121	.079894	.079665
2984.73	.081831	.081615	.081396	.081176	.080954	.080730	.080503	.080275	.080045
2974.73	.082224	.082006	.081787	.081565	.081342	.081116	.080889	.080659	.080428

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -519.53	-509.53	-499.53	-489.53	-479.53	-469.53	-459.53	-449.53	-439.53
3074.73	.076511	.076289	.076065	.075839	.075612	.075383	.075152	.074919	.074684
3064.73	.076866	.076643	.076418	.076191	.075962	.075731	.075499	.075265	.075029
3054.73	.077225	.077000	.076773	.076545	.076315	.076083	.075849	.075614	.075376
3044.73	.077586	.077360	.077132	.076902	.076671	.076437	.076202	.075965	.075727
3034.73	.077949	.077722	.077493	.077262	.077029	.076795	.076558	.076320	.076080
3024.73	.078316	.078088	.077857	.077625	.077391	.077155	.076917	.076677	.076435
3014.73	.078686	.078456	.078225	.077991	.077755	.077517	.077278	.077037	.076793
3004.73	.079059	.078828	.078595	.078359	.078122	.077883	.077642	.077399	.077154
2994.73	.079435	.079202	.078967	.078730	.078492	.078251	.078009	.077764	.077518
2984.73	.079813	.079579	.079342	.079104	.078864	.078622	.078378	.078132	.077884
2974.73	.080194	.079958	.079721	.079481	.079239	.078996	.078750	.078503	.078253

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -429.53	-419.53	-409.53	-399.53	-389.53	-379.53	-369.53	-359.53	-349.53
3074.73	.074448	.074210	.073971	.073730	.073487	.073242	.072996	.072748	.072498
3064.73	.074792	.074552	.074311	.074069	.073824	.073578	.073330	.073080	.072829
3054.73	.075138	.074897	.074654	.074410	.074164	.073916	.073667	.073416	.073163
3044.73	.075486	.075244	.075000	.074754	.074506	.074257	.074006	.073753	.073499
3034.73	.075838	.075594	.075348	.075101	.074851	.074601	.074348	.074093	.073837
3024.73	.076192	.075946	.075699	.075450	.075199	.074947	.074692	.074436	.074178
3014.73	.076548	.076301	.076053	.075802	.075550	.075295	.075039	.074782	.074522
3004.73	.076908	.076659	.076409	.076157	.075903	.075647	.075389	.075130	.074868
2994.73	.077270	.077020	.076768	.076514	.076258	.076001	.075741	.075480	.075217
2984.73	.077634	.077383	.077129	.076874	.076616	.076357	.076096	.075833	.075568
2974.73	.078002	.077749	.077493	.077236	.076977	.076716	.076453	.076189	.075922

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -339.53	-329.53	-319.53	-309.53	-299.53	-289.53	-279.53	-269.53	-259.53
3074.73	.072247	.071994	.071739	.071483	.071225	.070966	.070705	.070442	.070178
3064.73	.072576	.072322	.072065	.071807	.071548	.071287	.071024	.070759	.070493
3054.73	.072908	.072652	.072394	.072134	.071873	.071610	.071345	.071079	.070811
3044.73	.073242	.072984	.072725	.072463	.072200	.071935	.071669	.071401	.071131
3034.73	.073579	.073319	.073058	.072795	.072530	.072264	.071995	.071726	.071454
3024.73	.073919	.073657	.073394	.073129	.072863	.072594	.072324	.072053	.071779
3014.73	.074260	.073997	.073732	.073466	.073197	.072927	.072656	.072382	.072107
3004.73	.074605	.074340	.074074	.073805	.073535	.073263	.072989	.072714	.072437
2994.73	.074952	.074685	.074417	.074147	.073875	.073601	.073325	.073048	.072769
2984.73	.075301	.075033	.074763	.074491	.074217	.073941	.073664	.073385	.073104
2974.73	.075654	.075383	.075111	.074837	.074562	.074284	.074005	.073724	.073441

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -249.53	-239.53	-229.53	-219.53	-209.53	-199.53	-189.53	-179.53	-169.53
3074.73	.069912	.069645	.069376	.069105	.068833	.068560	.068285	.068008	.067730
3064.73	.070226	.069956	.069686	.069413	.069140	.068864	.068587	.068309	.068029
3054.73	.070542	.070271	.069998	.069724	.069448	.069171	.068892	.068612	.068330
3044.73	.070860	.070587	.070313	.070037	.069759	.069480	.069199	.068917	.068633
3034.73	.071181	.070906	.070630	.070352	.070073	.069792	.069509	.069225	.068939
3024.73	.071504	.071228	.070950	.070670	.070388	.070105	.069821	.069535	.069247
3014.73	.071830	.071552	.071272	.070990	.070706	.070421	.070135	.069847	.069557
3004.73	.072158	.071878	.071596	.071312	.071027	.070740	.070451	.070161	.069869
2994.73	.072489	.072206	.071922	.071637	.071349	.071060	.070770	.070478	.070184
2984.73	.072821	.072537	.072251	.071963	.071674	.071383	.071091	.070796	.070501
2974.73	.073157	.072870	.072582	.072293	.072001	.071708	.071414	.071117	.070819

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

** CONC OF ANY IN MICROGRAMS/M**3 **

RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE
1.	.082224	AT (	-609.53,	2974.73)	GC	6.	.081565	AT (	-579.53,	2974.73)	GC
2.	.082006	AT (	-599.53,	2974.73)	GC	7.	.081441	AT (	-609.53,	2994.73)	GC
3.	.081831	AT (	-609.53,	2984.73)	GC	8.	.081396	AT (	-589.53,	2984.73)	GC
4.	.081787	AT (	-589.53,	2974.73)	GC	9.	.081342	AT (	-569.53,	2974.73)	GC
5.	.081615	AT (	-599.53,	2984.73)	GC	10.	.081226	AT (	-599.53,	2994.73)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** Message Summary : ISCLT3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 0 Informational Message(s)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCLT3 Finishes Successfully ***
****

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*** TRINITY DOWNWASH FILE NAME: C:\MODELS\EXFAN.WAK
CO STARTING
CO TITLEONE MAX CONCENTRATION AT WIPP SITE BOUNDARY (90 Carlsbad Met)
CO TITLETWO Fine Receptor Grid(10x10m)/1000 µg/m^3 SrcConc
CO MODELOPT CONC RURAL
CO AVERTIME ANNUAL
CO POLLUTID ANY
CO TERRHGTS ELEV
CO FLAGPOLE 1.500000
CO RUNORNOT RUN
CO FINISHED
SO STARTING
SO LOCATION 1 POINT        0.00       0.00    1039.37
SO SRCPARAM 1 0.100000       8.20     288.80     4.6598      4.400
SO LOCATION 2 POINT        0.00       7.20    1039.37
SO SRCPARAM 2 0.100000       8.20     288.80     4.6598      4.400
SO BUILDHGT 1    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 1     6.55     6.55     0.00     0.00    11.22     0.00
SO BUILDHGT 1     6.55     6.55     2.04     6.55
SO BUILDWID  1             10.51    11.82    13.05      .00    30.72    33.44
SO BUILDWID  1             34.97    31.62      .00      .00    13.05      .00
SO BUILDWID  1             30.72    30.72     7.29    31.62
SO BUILDHGT 2    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 2     6.55     6.55     0.00     0.00     0.00     0.00
SO BUILDHGT 2     6.55     6.55     6.55     6.55
SO BUILDWID  2             10.51    11.82    12.68      .00    26.82    33.44
SO BUILDWID  2             34.97    33.72      .00      .00      .00      .00
SO BUILDWID  2             26.82    33.44    34.97    33.72
SO EMISUNIT 1000000.000000 GRAMS/SEC MICROGRAMS/M**3
SO SRCGROUP ALL
SO FINISHED
RE STARTING
RE ELEVUNIT FEET
RE GRIDCART COARSE   STA
RE GRIDCART COARSE   XYINC -209.53 45 10.00 2978.51 11 10.00
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
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RE GRIDCART COARSE	FLAG 1	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 1	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 1	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 1	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 1	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 1	1.50			
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50			
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50			
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50

RE GRIDCART COARSE	FLAG 4	1.50			
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50			
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50			
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50			
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50

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RE GRIDCART COARSE   FLAG 8     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 8     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 8     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 8     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 8     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 8     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 8     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 8     1.50
RE GRIDCART COARSE   FLAG 9     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 9     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 9     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 9     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 9     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 9     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 9     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 9     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 9     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 9     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 9     1.50
RE GRIDCART COARSE   FLAG 10    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 10    1.50
RE GRIDCART COARSE   FLAG 11    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11    1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 11    1.50     1.50     1.50     1.50
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RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50			
RE GRIDCART COARSE	ELEV 1	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 1	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 1	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 1	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 1	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 1	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 1	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 1	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 1	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 1	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 1	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 1	3420.00			
RE GRIDCART COARSE	ELEV 2	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 2	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 2	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 2	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 2	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 2	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 2	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 2	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 2	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 2	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 2	3420.00			
RE GRIDCART COARSE	ELEV 3	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 3	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 3	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 3	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 3	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 3	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 3	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 3	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 3	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 3	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 3	3420.00			
RE GRIDCART COARSE	ELEV 4	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 4	3420.00	3420.00	3420.00	3420.00

RE GRIDCART COARSE	ELEV 4	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 4	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 4	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 4	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 4	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 4	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 4	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 4	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 4	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 4	3420.00			
RE GRIDCART COARSE	ELEV 5	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 5	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 5	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 5	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 5	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 5	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 5	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 5	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 5	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 5	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 5	3420.00			
RE GRIDCART COARSE	ELEV 6	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 6	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 6	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 6	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 6	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 6	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 6	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 6	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 6	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 6	3420.00			
RE GRIDCART COARSE	ELEV 7	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 7	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 7	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 7	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 7	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 7	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 7	3420.00	3420.00	3420.00	3420.00

RE GRIDCART COARSE	ELEV 7	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 7	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 7	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 7	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 7	3420.00			
RE GRIDCART COARSE	ELEV 8	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 8	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 8	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 8	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 8	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 8	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 8	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 8	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 8	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 8	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 8	3420.00			
RE GRIDCART COARSE	ELEV 9	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 9	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 9	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 9	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 9	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 9	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 9	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 9	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 9	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 9	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 9	3420.00			
RE GRIDCART COARSE	ELEV 10	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 10	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 10	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 10	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 10	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 10	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 10	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 10	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 10	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 10	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 10	3420.00	3420.00	3420.00	3420.00
RE GRIDCART COARSE	ELEV 10	3420.00			

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RE GRIDCART COARSE   ELEV 11  3420.00  3420.00  3420.00  3420.00
RE GRIDCART COARSE   ELEV 11  3420.00  3420.00  3420.00  3420.00
RE GRIDCART COARSE   ELEV 11  3420.00  3420.00  3420.00  3420.00
RE GRIDCART COARSE   ELEV 11  3420.00  3420.00  3420.00  3420.00
RE GRIDCART COARSE   ELEV 11  3420.00  3420.00  3420.00  3420.00
RE GRIDCART COARSE   ELEV 11  3420.00  3420.00  3420.00  3420.00
RE GRIDCART COARSE   ELEV 11  3420.00  3420.00  3420.00  3420.00
RE GRIDCART COARSE   ELEV 11  3420.00  3420.00  3420.00  3420.00
RE GRIDCART COARSE   ELEV 11  3420.00  3420.00  3420.00  3420.00
RE GRIDCART COARSE   ELEV 11  3420.00  3420.00  3420.00  3420.00
RE GRIDCART COARSE   ELEV 11  3420.00
RE GRIDCART COARSE   END
RE FINISHED
ME STARTING
ME INPUTFIL C:\MODELS\MET\CBD90.STR (7X,6F7.5)
ME ANEMHGHT   10.000 METERS
ME SURFDATA 11111 1990 CARLSBAD
ME UAIRDATA 11111 1990
ME STARDATA ANNUAL
ME AVESPEED   1.00   2.25   4.05   6.55   9.25  12.50
ME AVETEMPS ANNUAL 288.80 288.80 288.80 288.80 288.80 288.80
ME AVEMIXHT ANNUAL A 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL B 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL C 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL D 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL E 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL F 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME DTHETADZ A   0.00   0.00   0.00   0.00   0.00   0.00
ME DTHETADZ B   0.00   0.00   0.00   0.00   0.00   0.00
ME DTHETADZ C   0.00   0.00   0.00   0.00   0.00   0.00
ME DTHETADZ D   0.00   0.00   0.00   0.00   0.00   0.00
ME DTHETADZ E   0.01   0.01   0.01   0.01   0.01   0.01
ME DTHETADZ F   0.03   0.03   0.03   0.03   0.03   0.03
ME FINISHED
OU STARTING
OU RECTABLE SRCGRP
OU MAXTABLE 10 SRCGRP
OU PLOTFILE ANNUAL ALL C:\MODELS\ADM\ADMFC90B.GPH 70
OU FINISHED
**********************************
*** SETUP Finishes Successfully ***
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1
*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** MODEL SETUP OPTIONS SUMMARY ***

- -

**Model Is Setup For Calculation of Average CONCentration Values.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses NO plume DEPLETION.

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Default Wind Profile Exponents.
5. User-Specified Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates 1 STAR Average(s) for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**Data File Includes 1 STAR Summaries for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**This Run Includes: 2 Source(s); 1 Source Group(s); and 495 Receptor(s)

**The Model Assumes A Pollutant Type of: ANY

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)
Model Outputs External File(s) of Long Term Values for Plotting (PLOTFILE Keyword)

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = .0000 ; Rot. Angle = .0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = .10000E+07
Output Units = MICROGRAMS/M**3

**Input Runstream File: ADMFC90B.DAT ; **Output Print File: ADMFC90B.LST

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
1	0	.10000E+00	.0	.0	1039.4	8.20	288.80	4.66	4.40	YES	
2	0	.10000E+00	.0	7.2	1039.4	8.20	288.80	4.66	4.40	YES	

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	1 , 2 ,

4
*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	13.1,	0	4	.0,	.0,	0
5	6.6,	30.7,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	31.6,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	11.2,	13.1,	0	12	.0,	.0,	0
13	6.6,	30.7,	0	14	6.6,	30.7,	0	15	2.0,	7.3,	0	16	6.6,	31.6,	0

SOURCE ID: 2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	12.7,	0	4	.0,	.0,	0
5	6.6,	26.8,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	33.7,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	.0,	.0,	0	12	.0,	.0,	0
13	6.6,	26.8,	0	14	6.6,	33.4,	0	15	6.6,	35.0,	0	16	6.6,	33.7,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-209.5,	-199.5,	-189.5,	-179.5,	-169.5,	-159.5,	-149.5,	-139.5,	-129.5,	-119.5,
-109.5,	-99.5,	-89.5,	-79.5,	-69.5,	-59.5,	-49.5,	-39.5,	-29.5,	-19.5,
-9.5,	.5,	10.5,	20.5,	30.5,	40.5,	50.5,	60.5,	70.5,	80.5,
90.5,	100.5,	110.5,	120.5,	130.5,	140.5,	150.5,	160.5,	170.5,	180.5,
190.5,	200.5,	210.5,	220.5,	230.5,					

*** Y-COORDINATES OF GRID ***
(METERS)

2978.5,	2988.5,	2998.5,	3008.5,	3018.5,	3028.5,	3038.5,	3048.5,	3058.5,	3068.5,
3078.5,									

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -209.53	-199.53	-189.53	-179.53	-169.53	-159.53	-149.53	-139.53	-129.53
3078.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3068.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3058.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3048.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3038.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3028.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3018.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3008.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
2998.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
2988.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
2978.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -119.53	-109.53	-99.53	-89.53	-79.53	-69.53	-59.53	-49.53	-39.53
3078.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3068.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3058.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3048.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3038.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3028.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3018.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3008.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
2998.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
2988.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
2978.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -29.53	-19.53	-9.53	.47	10.47	20.47	30.47	40.47	50.47
3078.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3068.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3058.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3048.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3038.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3028.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3018.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3008.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
2998.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
2988.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
2978.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 60.47	70.47	80.47	90.47	100.47	110.47	120.47	130.47	140.47
3078.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3068.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3058.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3048.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3038.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3028.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3018.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3008.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
2998.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
2988.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
2978.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 150.47	160.47	170.47	180.47	190.47	200.47	210.47	220.47	230.47
3078.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3068.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3058.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3048.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3038.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3028.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3018.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
3008.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
2998.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
2988.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42
2978.51	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42	1042.42

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -209.53	-199.53	-189.53	-179.53	-169.53	-159.53	-149.53	-139.53	-129.53
3078.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3068.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3058.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3048.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3038.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3028.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3018.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3008.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2998.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2988.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2978.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -119.53	-109.53	-99.53	-89.53	-79.53	-69.53	-59.53	-49.53	-39.53
3078.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3068.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3058.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3048.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3038.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3028.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3018.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3008.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2998.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2988.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2978.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -29.53	-19.53	-9.53	.47	10.47	20.47	30.47	40.47	50.47
3078.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3068.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3058.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3048.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3038.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3028.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3018.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3008.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2998.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2988.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2978.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 60.47	70.47	80.47	90.47	100.47	110.47	120.47	130.47	140.47
3078.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3068.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3058.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3048.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3038.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3028.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3018.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3008.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2998.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2988.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2978.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 150.47	160.47	170.47	180.47	190.47	200.47	210.47	220.47	230.47
3078.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3068.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3058.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3048.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3038.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3028.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3018.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
3008.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2998.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2988.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
2978.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***
(METERS/SEC)

1.00, 2.25, 4.05, 6.55, 9.25, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01
F	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
ANNUAL	288.8000	288.8000	288.8000	288.8000	288.8000	288.8000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

	ANNUAL					
	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY B	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY C	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY D	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY E	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY F	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD90.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1990 YEAR: 1990

ANNUAL: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00064000	.00083000	.00000000	.00000000	.00000000	.00000000
22.500	.00018000	.00024000	.00000000	.00000000	.00000000	.00000000
45.000	.00066000	.00059000	.00000000	.00000000	.00000000	.00000000
67.500	.00048000	.00035000	.00000000	.00000000	.00000000	.00000000
90.000	.00094000	.00095000	.00000000	.00000000	.00000000	.00000000
112.500	.00057000	.00047000	.00000000	.00000000	.00000000	.00000000
135.000	.00126000	.00083000	.00000000	.00000000	.00000000	.00000000
157.500	.00045000	.00059000	.00000000	.00000000	.00000000	.00000000
180.000	.00066000	.00059000	.00000000	.00000000	.00000000	.00000000
202.500	.00018000	.00024000	.00000000	.00000000	.00000000	.00000000
225.000	.00027000	.00035000	.00000000	.00000000	.00000000	.00000000
247.500	.00027000	.00035000	.00000000	.00000000	.00000000	.00000000
270.000	.00027000	.00035000	.00000000	.00000000	.00000000	.00000000
292.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
315.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
337.500	.00036000	.00047000	.00000000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00103000	.00213000	.00189000	.00000000	.00000000	.00000000
22.500	.00130000	.00213000	.00071000	.00000000	.00000000	.00000000
45.000	.00083000	.00177000	.00118000	.00000000	.00000000	.00000000
67.500	.00118000	.00307000	.00106000	.00000000	.00000000	.00000000
90.000	.00169000	.00284000	.00130000	.00000000	.00000000	.00000000
112.500	.00105000	.00402000	.00189000	.00000000	.00000000	.00000000
135.000	.00116000	.00556000	.00355000	.00000000	.00000000	.00000000
157.500	.00225000	.00721000	.00343000	.00000000	.00000000	.00000000
180.000	.00248000	.00520000	.00343000	.00000000	.00000000	.00000000
202.500	.00039000	.00071000	.00095000	.00000000	.00000000	.00000000
225.000	.00043000	.00095000	.00012000	.00000000	.00000000	.00000000
247.500	.00009000	.00059000	.00024000	.00000000	.00000000	.00000000
270.000	.00035000	.00047000	.00035000	.00000000	.00000000	.00000000
292.500	.00045000	.00024000	.00024000	.00000000	.00000000	.00000000
315.000	.00034000	.00130000	.00012000	.00000000	.00000000	.00000000
337.500	.00071000	.00189000	.00071000	.00000000	.00000000	.00000000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD90.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1990 YEAR: 1990

ANNUAL: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00080000	.00366000	.00816000	.00248000	.00012000	.00000000
22.500	.00035000	.00284000	.00343000	.00059000	.00000000	.00000000
45.000	.00025000	.00319000	.00118000	.00012000	.00000000	.00000000
67.500	.00036000	.00296000	.00130000	.00000000	.00000000	.00000000
90.000	.00056000	.00390000	.00343000	.00071000	.00000000	.00000000
112.500	.00067000	.00366000	.00473000	.00142000	.00000000	.00000000
135.000	.00029000	.00366000	.01017000	.00355000	.00012000	.00000000
157.500	.00069000	.00556000	.01324000	.00248000	.00035000	.00000000
180.000	.00040000	.00508000	.01206000	.00284000	.00024000	.00000000
202.500	.00034000	.00106000	.00106000	.00071000	.00000000	.00000000
225.000	.00016000	.00047000	.00047000	.00012000	.00024000	.00000000
247.500	.00030000	.00059000	.00177000	.00083000	.00071000	.00047000
270.000	.00047000	.00118000	.00225000	.00213000	.00165000	.00071000
292.500	.00031000	.00071000	.00083000	.00083000	.00024000	.00000000
315.000	.00035000	.00118000	.00095000	.00035000	.00000000	.00000000
337.500	.00033000	.00095000	.00189000	.00059000	.00012000	.00000000

ANNUAL: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00043000	.00461000	.00875000	.01572000	.00307000	.00059000
22.500	.00042000	.00248000	.00402000	.00449000	.00047000	.00035000
45.000	.00044000	.00284000	.00496000	.00343000	.00035000	.00012000
67.500	.00037000	.00177000	.00366000	.00201000	.00000000	.00000000
90.000	.00058000	.00307000	.00579000	.00496000	.00035000	.00000000
112.500	.00042000	.00248000	.00603000	.00378000	.00035000	.00000000
135.000	.00100000	.00556000	.01312000	.01820000	.00201000	.00059000
157.500	.00073000	.00520000	.02506000	.02376000	.00225000	.00024000
180.000	.00096000	.00496000	.01962000	.01466000	.00071000	.00047000
202.500	.00028000	.00225000	.00319000	.00366000	.00118000	.00035000
225.000	.00064000	.00201000	.00390000	.00319000	.00106000	.00024000
247.500	.00034000	.00130000	.00544000	.01253000	.00532000	.00189000
270.000	.00021000	.00307000	.00768000	.02624000	.01548000	.00662000
292.500	.00049000	.00165000	.00402000	.00922000	.00213000	.00071000
315.000	.00039000	.00213000	.00366000	.00485000	.00047000	.00012000
337.500	.00046000	.00307000	.00721000	.00969000	.00414000	.00059000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD90.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1990 YEAR: 1990

ANNUAL: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00390000	.00473000	.00000000	.00000000	.00000000
22.500	.00000000	.00130000	.00130000	.00000000	.00000000	.00000000
45.000	.00000000	.00071000	.00118000	.00000000	.00000000	.00000000
67.500	.00000000	.00118000	.00154000	.00000000	.00000000	.00000000
90.000	.00000000	.00165000	.00189000	.00000000	.00000000	.00000000
112.500	.00000000	.00154000	.00236000	.00000000	.00000000	.00000000
135.000	.00000000	.00414000	.00863000	.00000000	.00000000	.00000000
157.500	.00000000	.00721000	.01797000	.00000000	.00000000	.00000000
180.000	.00000000	.01005000	.02364000	.00000000	.00000000	.00000000
202.500	.00000000	.00284000	.00934000	.00000000	.00000000	.00000000
225.000	.00000000	.00366000	.00792000	.00000000	.00000000	.00000000
247.500	.00000000	.00236000	.01206000	.00000000	.00000000	.00000000
270.000	.00000000	.00390000	.01478000	.00000000	.00000000	.00000000
292.500	.00000000	.00461000	.01229000	.00000000	.00000000	.00000000
315.000	.00000000	.00260000	.00603000	.00000000	.00000000	.00000000
337.500	.00000000	.00154000	.00402000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00468000	.00993000	.00000000	.00000000	.00000000	.00000000
22.500	.00242000	.00520000	.00000000	.00000000	.00000000	.00000000
45.000	.00155000	.00201000	.00000000	.00000000	.00000000	.00000000
67.500	.00120000	.00248000	.00000000	.00000000	.00000000	.00000000
90.000	.00258000	.00390000	.00000000	.00000000	.00000000	.00000000
112.500	.00174000	.00461000	.00000000	.00000000	.00000000	.00000000
135.000	.00246000	.00745000	.00000000	.00000000	.00000000	.00000000
157.500	.00425000	.01430000	.00000000	.00000000	.00000000	.00000000
180.000	.00608000	.02352000	.00000000	.00000000	.00000000	.00000000
202.500	.00264000	.00981000	.00000000	.00000000	.00000000	.00000000
225.000	.00254000	.00674000	.00000000	.00000000	.00000000	.00000000
247.500	.00388000	.00768000	.00000000	.00000000	.00000000	.00000000
270.000	.00378000	.01312000	.00000000	.00000000	.00000000	.00000000
292.500	.00431000	.01678000	.00000000	.00000000	.00000000	.00000000
315.000	.00265000	.00827000	.00000000	.00000000	.00000000	.00000000
337.500	.00287000	.00603000	.00000000	.00000000	.00000000	.00000000

SUM OF FREQUENCIES, FTOTAL = .99995

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -209.53	-199.53	-189.53	-179.53	-169.53	-159.53	-149.53	-139.53	-129.53
3078.51	.111547	.111800	.112052	.112301	.112549	.112795	.113039	.113282	.113522
3068.51	.112035	.112290	.112544	.112796	.113046	.113294	.113540	.113784	.114027
3058.51	.112527	.112784	.113040	.113294	.113546	.113796	.114044	.114290	.114535
3048.51	.113023	.113282	.113540	.113795	.114049	.114301	.114552	.114800	.115047
3038.51	.113522	.113783	.114043	.114301	.114557	.114811	.115064	.115314	.115563
3028.51	.114025	.114288	.114550	.114810	.115068	.115325	.115579	.115832	.116082
3018.51	.114531	.114797	.115061	.115323	.115584	.115842	.116099	.116353	.116606
3008.51	.115041	.115309	.115576	.115840	.116102	.116363	.116622	.116878	.117134
2998.51	.115556	.115826	.116094	.116361	.116626	.116888	.117149	.117408	.117665
2988.51	.116074	.116346	.116617	.116886	.117153	.117418	.117681	.117942	.118201
2978.51	.116596	.116871	.117144	.117415	.117684	.117951	.118217	.118480	.118741

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -119.53	-109.53	-99.53	-89.53	-79.53	-69.53	-59.53	-49.53	-39.53
3078.51	.113761	.113998	.114233	.114467	.114698	.114927	.115155	.115380	.115605
3068.51	.114267	.114507	.114744	.114979	.115212	.115443	.115672	.115900	.116125
3058.51	.114778	.115018	.115258	.115494	.115729	.115963	.116194	.116423	.116650
3048.51	.115292	.115534	.115775	.116014	.116252	.116486	.116719	.116950	.117179
3038.51	.115809	.116054	.116297	.116538	.116777	.117014	.117249	.117482	.117712
3028.51	.116331	.116578	.116823	.117066	.117306	.117545	.117782	.118017	.118249
3018.51	.116857	.117106	.117353	.117597	.117840	.118081	.118320	.118557	.118791
3008.51	.117386	.117637	.117886	.118133	.118378	.118620	.118861	.119099	.119336
2998.51	.117920	.118173	.118424	.118673	.118920	.119165	.119407	.119648	.119886
2988.51	.118458	.118713	.118966	.119217	.119466	.119712	.119958	.120200	.120441
2978.51	.119000	.119258	.119512	.119766	.120017	.120265	.120513	.120756	.120999

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -29.53	-19.53	-9.53	.47	10.47	20.47	30.47	40.47	50.47
3078.51	.115827	.116046	.116264	.116487	.115839	.115235	.114628	.114021	.113413
3068.51	.116349	.116570	.116788	.117015	.116364	.115753	.115142	.114530	.113916
3058.51	.116876	.117100	.117319	.117547	.116889	.116275	.115659	.115042	.114423
3048.51	.117406	.117632	.117855	.118083	.117417	.116800	.116181	.115559	.114936
3038.51	.117941	.118168	.118395	.118624	.117953	.117328	.116703	.116079	.115450
3028.51	.118480	.118708	.118936	.119168	.118493	.117862	.117229	.116595	.115965
3018.51	.119023	.119254	.119480	.119717	.119035	.118400	.117762	.117123	.116483
3008.51	.119570	.119803	.120033	.120269	.119580	.118942	.118299	.117655	.117009
2998.51	.120122	.120356	.120590	.120827	.120134	.119488	.118840	.118191	.117540
2988.51	.120678	.120915	.121151	.121389	.120692	.120039	.119387	.118733	.118076
2978.51	.121239	.121477	.121714	.121955	.121251	.120595	.119937	.119277	.118616

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 60.47	70.47	80.47	90.47	100.47	110.47	120.47	130.47	140.47
3078.51	.112803	.112191	.111578	.110964	.110349	.109732	.109114	.108494	.107874
3068.51	.113302	.112685	.112067	.111448	.110828	.110206	.109584	.108959	.108334
3058.51	.113804	.113183	.112560	.111936	.111311	.110684	.110057	.109428	.108797
3048.51	.114311	.113684	.113057	.112428	.111797	.111166	.110533	.109899	.109264
3038.51	.114821	.114189	.113557	.112923	.112287	.111651	.111013	.110374	.109733
3028.51	.115329	.114698	.114061	.113422	.112781	.112139	.111496	.110852	.110206
3018.51	.115840	.115197	.114560	.113925	.113279	.112632	.111984	.111334	.110683
3008.51	.116362	.115714	.115064	.114412	.113769	.113116	.112474	.111819	.111163
2998.51	.116889	.116234	.115579	.114923	.114264	.113605	.112956	.112295	.111647
2988.51	.117418	.116759	.116099	.115437	.114773	.114108	.113442	.112774	.112106
2978.51	.117953	.117288	.116622	.115954	.115285	.114615	.113944	.113271	.112596

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 150.47	160.47	170.47	180.47	190.47	200.47	210.47	220.47	230.47
3078.51	.107252	.106630	.106006	.105381	.104757	.104130	.103504	.102876	.102247
3068.51	.107708	.107080	.106452	.105822	.105191	.104560	.103928	.103295	.102662
3058.51	.108166	.107534	.106900	.106265	.105630	.104993	.104356	.103717	.103078
3048.51	.108628	.107990	.107352	.106712	.106071	.105429	.104787	.104143	.103499
3038.51	.109092	.108450	.107806	.107162	.106516	.105869	.105221	.104572	.103923
3028.51	.109560	.108912	.108263	.107614	.106963	.106311	.105658	.105004	.104350
3018.51	.110031	.109378	.108724	.108069	.107412	.106755	.106098	.105439	.104779
3008.51	.110506	.109848	.109188	.108528	.107866	.107203	.106540	.105876	.105211
2998.51	.110985	.110321	.109656	.108990	.108323	.107655	.106986	.106316	.105646
2988.51	.111451	.110781	.110128	.109456	.108784	.108110	.107436	.106760	.106084
2978.51	.111921	.111244	.110585	.109907	.109247	.108568	.107889	.107208	.106526

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

** CONC OF ANY IN MICROGRAMS/M**3 **

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	.121955	AT (	.47,	2978.51)	GC	6.	.121239	AT (	-29.53,	2978.51)	GC
2.	.121714	AT (	-9.53,	2978.51)	GC	7.	.121151	AT (	-9.53,	2988.51)	GC
3.	.121477	AT (	-19.53,	2978.51)	GC	8.	.120999	AT (	-39.53,	2978.51)	GC
4.	.121389	AT (	.47,	2988.51)	GC	9.	.120915	AT (	-19.53,	2988.51)	GC
5.	.121251	AT (	10.47,	2978.51)	GC	10.	.120827	AT (	.47,	2998.51)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** Message Summary : ISCLT3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 0 Informational Message(s)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCLT3 Finishes Successfully ***
****

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*** TRINITY DOWNWASH FILE NAME: C:\MODELS\EXFAN.WAK
CO STARTING
CO TITLEONE MAX CONCENTRATION INSIDE WIPP SITE BOUNDARY (93 WIPP Met)
CO TITLETWO Fine Receptor Grid(10x10m)/1000 µg/m^3 SrcConc
CO MODELOPT CONC RURAL
CO AVERTIME ANNUAL
CO POLLUTID ANY
CO TERRHGTS ELEV
CO FLAGPOLE 1.500000
CO RUNORNOT RUN
CO FINISHED
SO STARTING
SO LOCATION 1 POINT        0.00       0.00    1039.37
SO SRCPARAM 1 0.100000        8.20     288.80     4.6598      4.400
SO LOCATION 2 POINT        0.00       7.20    1039.37
SO SRCPARAM 2 0.100000        8.20     288.80     4.6598      4.400
SO BUILDHGT 1    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 1     6.55     6.55     0.00     0.00    11.22     0.00
SO BUILDHGT 1     6.55     6.55     2.04     6.55
SO BUILDWID  1             10.51    11.82    13.05      .00    30.72    33.44
SO BUILDWID  1             34.97    31.62      .00      .00    13.05      .00
SO BUILDWID  1             30.72    30.72     7.29    31.62
SO BUILDHGT 2    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 2     6.55     6.55     0.00     0.00     0.00     0.00
SO BUILDHGT 2     6.55     6.55     6.55     6.55
SO BUILDWID  2             10.51    11.82    12.68      .00    26.82    33.44
SO BUILDWID  2             34.97    33.72      .00      .00      .00      .00
SO BUILDWID  2             26.82    33.44    34.97    33.72
SO EMISUNIT 1000000.000000 GRAMS/SEC MICROGRAMS/M**3
SO SRCGROUP ALL
SO FINISHED
RE STARTING
RE ELEVUNIT FEET
RE GRIDCART COARSE   STA
RE GRIDCART COARSE   XYINC -100 22 10.00 -20.00 22 10.00
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50
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RE	GRIDCART	COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 2	1.50	1.50		
RE	GRIDCART	COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 3	1.50	1.50		
RE	GRIDCART	COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 4	1.50	1.50		
RE	GRIDCART	COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 5	1.50	1.50		
RE	GRIDCART	COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 6	1.50	1.50		
RE	GRIDCART	COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 7	1.50	1.50		
RE	GRIDCART	COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE	GRIDCART	COARSE	FLAG 8	1.50	1.50	1.50	1.50

RE GRIDCART COARSE	FLAG 8	1.50	1.50		
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50		
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50	1.50		
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50		
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50	1.50		
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50	1.50		
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50	1.50		
RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50

RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 15	1.50	1.50		
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50	1.50		
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50	1.50		
RE GRIDCART COARSE	FLAG 18	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 18	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 18	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 18	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 18	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 18	1.50	1.50		
RE GRIDCART COARSE	FLAG 19	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 19	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 19	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 19	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 19	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 19	1.50	1.50		
RE GRIDCART COARSE	FLAG 20	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 20	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 20	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 20	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 20	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 20	1.50	1.50		
RE GRIDCART COARSE	FLAG 21	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 21	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 21	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 21	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 21	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 21	1.50	1.50		
RE GRIDCART COARSE	FLAG 22	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 22	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 22	1.50	1.50	1.50	1.50

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RE GRIDCART COARSE   FLAG 22     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 22     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 22     1.50     1.50
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00
RE GRIDCART COARSE   ELEV 4  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 4  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 4  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 4  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 4  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 4  3410.00  3410.00
RE GRIDCART COARSE   ELEV 5  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 5  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 5  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 5  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 5  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 5  3410.00  3410.00
RE GRIDCART COARSE   ELEV 6  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 6  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 6  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 6  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 6  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 6  3410.00  3410.00
RE GRIDCART COARSE   ELEV 7  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 7  3410.00  3410.00  3410.00  3410.00
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RE GRIDCART COARSE   ELEV 7  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 7  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 7  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 7  3410.00  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 8  3410.00  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 9  3410.00  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 10  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 11  3410.00  3410.00
RE GRIDCART COARSE   ELEV 12  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 12  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 12  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 12  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 12  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 12  3410.00  3410.00
RE GRIDCART COARSE   ELEV 13  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 13  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 13  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 13  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 13  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 13  3410.00  3410.00
RE GRIDCART COARSE   ELEV 14  3410.00  3410.00  3410.00  3410.00
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RE GRIDCART COARSE	ELEV 14	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 14	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 14	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 14	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 14	3410.00	3410.00		
RE GRIDCART COARSE	ELEV 15	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 15	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 15	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 15	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 15	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 15	3410.00	3410.00		
RE GRIDCART COARSE	ELEV 16	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 16	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 16	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 16	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 16	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 16	3410.00	3410.00		
RE GRIDCART COARSE	ELEV 17	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 17	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 17	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 17	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 17	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 17	3410.00	3410.00		
RE GRIDCART COARSE	ELEV 18	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 18	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 18	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 18	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 18	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 18	3410.00	3410.00		
RE GRIDCART COARSE	ELEV 19	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 19	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 19	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 19	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 19	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 19	3410.00	3410.00		
RE GRIDCART COARSE	ELEV 20	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 20	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 20	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 20	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 20	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 20	3410.00	3410.00		

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RE GRIDCART COARSE   ELEV 21  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 21  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 21  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 21  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 21  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 21  3410.00  3410.00
RE GRIDCART COARSE   ELEV 22  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 22  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 22  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 22  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 22  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 22  3410.00  3410.00
RE GRIDCART COARSE   END
RE FINISHED
ME STARTING
ME INPUTFIL C:\MODELS\MET\WP3093.STR  FREE
ME ANEMHGHT   10.000 METERS
ME SURFDATA 11111 1993 WIPP
ME UAIRDATA 11111 1993
ME STARDATA ANNUAL
ME AVESPEED   1.00   2.25   4.05   6.55   9.25  12.50
ME AVETEMPS ANNUAL 288.80 288.80 288.80 288.80 288.80 288.80
ME AVEMIXHT ANNUAL A 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL B 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL C 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL D 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL E 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL F 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME DTHETADZ A   0.00   0.00   0.00   0.00   0.00   0.00
ME DTHETADZ B   0.00   0.00   0.00   0.00   0.00   0.00
ME DTHETADZ C   0.00   0.00   0.00   0.00   0.00   0.00
ME DTHETADZ D   0.00   0.00   0.00   0.00   0.00   0.00
ME DTHETADZ E   0.01   0.01   0.01   0.01   0.01   0.01
ME DTHETADZ F   0.03   0.03   0.03   0.03   0.03   0.03
ME FINISHED
OU STARTING
OU RECTABLE SRCGRP
OU MAXTABLE 10 SRCGRP
OU PLOTFILE ANNUAL ALL C:\MODELS\ADM\ADMFW93A.GPH 70
OU FINISHED
***********************************
*** SETUP Finishes Successfully ***
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*** MODELING OPTIONS USED:  CONC   RURAL  ELEV   FLGPOL

                                   ***     MODEL SETUP OPTIONS SUMMARY      ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
-

**Model Is Setup For Calculation of Average CONCentration Values.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses NO plume DEPLETION.

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:
          1. Final Plume Rise.
          2. Stack-tip Downwash.
          3. Buoyancy-induced Dispersion.
          4. Default Wind Profile Exponents.
          5. User-Specified Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates   1 STAR Average(s) for the Following Months:  0  0  0  0  0  0  0  0  0  0  0  0
                                             Seasons/Quarters:  0  0  0  0
                                                   and Annual:  1

**Data File Includes  1 STAR Summaries for the Following Months:  0  0  0  0  0  0  0  0  0  0  0  0
                                             Seasons/Quarters:  0  0  0  0
                                                   and Annual:  1

**This Run Includes:    2 Source(s);      1 Source Group(s); and    484 Receptor(s)

**The Model Assumes A Pollutant Type of:  ANY

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
        Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
        Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)
        Model Outputs External File(s) of Long Term Values for Plotting (PLOTFILE Keyword)

**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    .0000     ;    Rot. Angle =     .0
                 Emission Units = GRAMS/SEC                             ;  Emission Rate Unit Factor =    .10000E+07
                 Output Units   = MICROGRAMS/M**3

**Input Runstream File: admfW93a.dat                         ;  **Output Print File: admfW93A.lst
```

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
1	0	.10000E+00	.0	.0	1039.4	8.20	288.80	4.66	4.40	YES	
2	0	.10000E+00	.0	7.2	1039.4	8.20	288.80	4.66	4.40	YES	

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	1 , 2 ,

4
*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	13.1,	0	4	.0,	.0,	0
5	6.6,	30.7,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	31.6,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	11.2,	13.1,	0	12	.0,	.0,	0
13	6.6,	30.7,	0	14	6.6,	30.7,	0	15	2.0,	7.3,	0	16	6.6,	31.6,	0

SOURCE ID: 2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	12.7,	0	4	.0,	.0,	0
5	6.6,	26.8,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	33.7,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	.0,	.0,	0	12	.0,	.0,	0
13	6.6,	26.8,	0	14	6.6,	33.4,	0	15	6.6,	35.0,	0	16	6.6,	33.7,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-100.0,	-90.0,	-80.0,	-70.0,	-60.0,	-50.0,	-40.0,	-30.0,	-20.0,	-10.0,
.0,	10.0,	20.0,	30.0,	40.0,	50.0,	60.0,	70.0,	80.0,	90.0,
100.0,	110.0,								

*** Y-COORDINATES OF GRID ***
(METERS)

-20.0,	-10.0,	.0,	10.0,	20.0,	30.0,	40.0,	50.0,	60.0,	70.0,
80.0,	90.0,	100.0,	110.0,	120.0,	130.0,	140.0,	150.0,	160.0,	170.0,
180.0,	190.0,								

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -100.00	-90.00	-80.00	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00
190.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
180.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
170.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
160.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
150.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
140.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
130.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
120.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
110.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
100.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
90.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
80.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
70.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
60.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
50.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
40.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
30.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
20.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
10.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
-10.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
-20.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -10.00	.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
190.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
180.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
170.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
160.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
150.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
140.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
130.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
120.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
110.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
100.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
90.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
80.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
70.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
60.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
50.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
40.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
30.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
20.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
10.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
-10.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
-20.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 80.00	90.00	100.00	110.00
190.00	1039.37	1039.37	1039.37	1039.37
180.00	1039.37	1039.37	1039.37	1039.37
170.00	1039.37	1039.37	1039.37	1039.37
160.00	1039.37	1039.37	1039.37	1039.37
150.00	1039.37	1039.37	1039.37	1039.37
140.00	1039.37	1039.37	1039.37	1039.37
130.00	1039.37	1039.37	1039.37	1039.37
120.00	1039.37	1039.37	1039.37	1039.37
110.00	1039.37	1039.37	1039.37	1039.37
100.00	1039.37	1039.37	1039.37	1039.37
90.00	1039.37	1039.37	1039.37	1039.37
80.00	1039.37	1039.37	1039.37	1039.37
70.00	1039.37	1039.37	1039.37	1039.37
60.00	1039.37	1039.37	1039.37	1039.37
50.00	1039.37	1039.37	1039.37	1039.37
40.00	1039.37	1039.37	1039.37	1039.37
30.00	1039.37	1039.37	1039.37	1039.37
20.00	1039.37	1039.37	1039.37	1039.37
10.00	1039.37	1039.37	1039.37	1039.37
.00	1039.37	1039.37	1039.37	1039.37
-10.00	1039.37	1039.37	1039.37	1039.37
-20.00	1039.37	1039.37	1039.37	1039.37

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -100.00	-90.00	-80.00	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00
190.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
180.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
170.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
160.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
150.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
140.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
130.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
120.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
110.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
100.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
90.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
80.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
70.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
60.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
50.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
40.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
30.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
20.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
10.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-10.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-20.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -10.00	.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
190.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
180.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
170.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
160.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
150.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
140.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
130.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
120.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
110.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
100.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
90.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
80.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
70.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
60.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
50.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
40.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
30.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
20.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
10.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-10.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-20.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 80.00	90.00	100.00	110.00
190.00	1.50	1.50	1.50	1.50
180.00	1.50	1.50	1.50	1.50
170.00	1.50	1.50	1.50	1.50
160.00	1.50	1.50	1.50	1.50
150.00	1.50	1.50	1.50	1.50
140.00	1.50	1.50	1.50	1.50
130.00	1.50	1.50	1.50	1.50
120.00	1.50	1.50	1.50	1.50
110.00	1.50	1.50	1.50	1.50
100.00	1.50	1.50	1.50	1.50
90.00	1.50	1.50	1.50	1.50
80.00	1.50	1.50	1.50	1.50
70.00	1.50	1.50	1.50	1.50
60.00	1.50	1.50	1.50	1.50
50.00	1.50	1.50	1.50	1.50
40.00	1.50	1.50	1.50	1.50
30.00	1.50	1.50	1.50	1.50
20.00	1.50	1.50	1.50	1.50
10.00	1.50	1.50	1.50	1.50
.00	1.50	1.50	1.50	1.50
-10.00	1.50	1.50	1.50	1.50
-20.00	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
1	-20.0	-20.0	28.28
1	-10.0	-10.0	14.14
1	10.0	-10.0	14.14
1	-10.0	.0	10.00
1	.0	.0	.00
1	10.0	.0	10.00
1	.0	10.0	10.00
1	10.0	10.0	14.14
1	.0	20.0	20.00
1	10.0	20.0	22.36
1	20.0	20.0	28.28
1	.0	30.0	30.00
1	10.0	30.0	31.62
2	10.0	.0	12.32
2	-10.0	10.0	10.38
2	.0	10.0	2.80
2	-10.0	20.0	16.24
2	.0	20.0	12.80
2	10.0	20.0	16.24
2	.0	30.0	22.80
2	10.0	30.0	24.90
2	20.0	30.0	30.33

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***
(METERS/SEC)

1.00, 2.25, 4.05, 6.55, 9.25, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01
F	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
ANNUAL	288.8000	288.8000	288.8000	288.8000	288.8000	288.8000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	ANNUAL WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY B	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY C	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY D	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY E	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY F	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\WP3093.STR FORMAT: FREE

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: WIPP NAME: UNKNOWN
YEAR: 1993 YEAR: 1993

ANNUAL: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
22.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
45.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
67.500	.00000000	.00017000	.00000000	.00000000	.00000000	.00000000
90.000	.00019600	.00034000	.00000000	.00000000	.00000000	.00000000
112.500	.00000000	.00034000	.00000000	.00000000	.00000000	.00000000
135.000	.00019600	.00136200	.00000000	.00000000	.00000000	.00000000
157.500	.00039200	.00238300	.00000000	.00000000	.00000000	.00000000
180.000	.00195900	.00187200	.00000000	.00000000	.00000000	.00000000
202.500	.00195900	.00153200	.00000000	.00000000	.00000000	.00000000
225.000	.00215500	.00221300	.00000000	.00000000	.00000000	.00000000
247.500	.00195900	.00119100	.00000000	.00000000	.00000000	.00000000
270.000	.00078400	.00085100	.00000000	.00000000	.00000000	.00000000
292.500	.00000000	.00068100	.00000000	.00000000	.00000000	.00000000
315.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
337.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00019600	.00000000	.00000000	.00000000	.00000000	.00000000
22.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
45.000	.00058800	.00017000	.00051100	.00000000	.00000000	.00000000
67.500	.00078400	.00085100	.00017000	.00000000	.00000000	.00000000
90.000	.00156700	.00102100	.00051100	.00000000	.00000000	.00000000
112.500	.00333100	.00306400	.00255300	.00000000	.00000000	.00000000
135.000	.00293900	.00425500	.00425500	.00000000	.00000000	.00000000
157.500	.00293900	.00766000	.00680900	.00000000	.00000000	.00000000
180.000	.00411400	.00697900	.00510600	.00000000	.00000000	.00000000
202.500	.00489800	.00646800	.00306400	.00000000	.00000000	.00000000
225.000	.00391800	.00459600	.00187200	.00000000	.00000000	.00000000
247.500	.00509400	.00527700	.00153200	.00000000	.00000000	.00000000
270.000	.00117600	.00170200	.00204300	.00000000	.00000000	.00000000
292.500	.00098000	.00187200	.00221300	.00000000	.00000000	.00000000
315.000	.00098000	.00102100	.00119100	.00000000	.00000000	.00000000
337.500	.00000000	.00017000	.00000000	.00000000	.00000000	.00000000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\WP3093.STR FORMAT: FREE

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: WIPP NAME: UNKNOWN
YEAR: 1993 YEAR: 1993

ANNUAL: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00039200	.00034000	.00000000	.00000000	.00000000	.00000000
22.500	.00019600	.00034000	.00034000	.00000000	.00000000	.00000000
45.000	.00000000	.00068100	.00238300	.00000000	.00000000	.00000000
67.500	.00098000	.00085100	.00102100	.00000000	.00000000	.00000000
90.000	.00137100	.00136200	.00187200	.00000000	.00000000	.00000000
112.500	.00450600	.00391500	.00629800	.00034000	.00000000	.00000000
135.000	.00352700	.00544700	.01787200	.00442600	.00000000	.00000000
157.500	.00450600	.00425500	.01123400	.00289400	.00000000	.00000000
180.000	.00293900	.00595700	.01089400	.00340400	.00017000	.00000000
202.500	.00176300	.00459600	.00595700	.00017000	.00000000	.00000000
225.000	.00313500	.00425500	.00187200	.00017000	.00000000	.00000000
247.500	.00156700	.00340400	.00459600	.00170200	.00000000	.00000000
270.000	.00195900	.00289400	.00204300	.00170200	.00034000	.00000000
292.500	.00137100	.00153200	.00221300	.00000000	.00000000	.00000000
315.000	.00039200	.00136200	.00221300	.00051100	.00000000	.00000000
337.500	.00000000	.00017000	.00034000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00017000	.00017000	.00000000	.00000000	.00000000
22.500	.00000000	.00102100	.00119100	.00102100	.00034000	.00034000
45.000	.00039200	.00255300	.00493600	.00851100	.00153200	.00000000
67.500	.00078400	.00425500	.00595700	.00697900	.00068100	.00017000
90.000	.00313500	.00527700	.01293600	.00987200	.00119100	.00017000
112.500	.00372300	.01293600	.02706400	.01344700	.00136200	.00000000
135.000	.00372300	.01004300	.03285100	.04204300	.00306400	.00000000
157.500	.00176300	.00663800	.01855300	.01991500	.00238300	.00017000
180.000	.00274300	.00612800	.01072300	.00425500	.00051100	.00000000
202.500	.00117600	.00425500	.00731900	.00357400	.00000000	.00000000
225.000	.00019600	.00408500	.00510600	.00340400	.00136200	.00017000
247.500	.00058800	.00357400	.00595700	.01123400	.00306400	.00136200
270.000	.00058800	.00238300	.00527700	.00748900	.00357400	.00187200
292.500	.00039200	.00153200	.00221300	.00238300	.00102100	.00000000
315.000	.00000000	.00068100	.00204300	.00391500	.00136200	.00034000
337.500	.00000000	.00000000	.00034000	.00051100	.00000000	.00000000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\WP3093.STR FORMAT: FREE

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: WIPP NAME: UNKNOWN
YEAR: 1993 YEAR: 1993

ANNUAL: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00034000	.00034000	.00000000	.00000000	.00000000
22.500	.00000000	.00017000	.00034000	.00000000	.00000000	.00000000
45.000	.00000000	.00085100	.00187200	.00000000	.00000000	.00000000
67.500	.00000000	.00170200	.00272300	.00000000	.00000000	.00000000
90.000	.00000000	.00272300	.00783000	.00000000	.00000000	.00000000
112.500	.00000000	.00680900	.02314900	.00000000	.00000000	.00000000
135.000	.00000000	.01123400	.02961700	.00000000	.00000000	.00000000
157.500	.00000000	.00868100	.01038300	.00000000	.00000000	.00000000
180.000	.00000000	.00323400	.00238300	.00000000	.00000000	.00000000
202.500	.00000000	.00340400	.00068100	.00000000	.00000000	.00000000
225.000	.00000000	.00221300	.00119100	.00000000	.00000000	.00000000
247.500	.00000000	.00187200	.00442600	.00000000	.00000000	.00000000
270.000	.00000000	.00034000	.00272300	.00000000	.00000000	.00000000
292.500	.00000000	.00068100	.00204300	.00000000	.00000000	.00000000
315.000	.00000000	.00085100	.00170200	.00000000	.00000000	.00000000
337.500	.00000000	.00034000	.00085100	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00051100	.00000000	.00000000	.00000000	.00000000
22.500	.00039200	.00187200	.00000000	.00000000	.00000000	.00000000
45.000	.00156700	.00374500	.00000000	.00000000	.00000000	.00000000
67.500	.00313500	.00476600	.00000000	.00000000	.00000000	.00000000
90.000	.00607400	.00748900	.00000000	.00000000	.00000000	.00000000
112.500	.01097200	.02059600	.00000000	.00000000	.00000000	.00000000
135.000	.01195100	.02348900	.00000000	.00000000	.00000000	.00000000
157.500	.01136400	.01293600	.00000000	.00000000	.00000000	.00000000
180.000	.00881700	.00561700	.00000000	.00000000	.00000000	.00000000
202.500	.00607400	.00357400	.00000000	.00000000	.00000000	.00000000
225.000	.00470200	.00493600	.00000000	.00000000	.00000000	.00000000
247.500	.00450600	.00510600	.00000000	.00000000	.00000000	.00000000
270.000	.00254700	.00272300	.00000000	.00000000	.00000000	.00000000
292.500	.00176300	.00238300	.00000000	.00000000	.00000000	.00000000
315.000	.00195900	.00238300	.00000000	.00000000	.00000000	.00000000
337.500	.00058800	.00187200	.00000000	.00000000	.00000000	.00000000

SUM OF FREQUENCIES, FTOTAL = .99999

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -100.00	-90.00	-80.00	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00
190.00	1.222216	1.189521	1.160668	1.164512	1.184652	1.204184	1.222966	1.240891	1.257879
180.00	1.283754	1.249361	1.219119	1.203540	1.228386	1.252902	1.276950	1.300391	1.323104
170.00	1.348213	1.313030	1.279943	1.252702	1.271748	1.302379	1.333016	1.363471	1.393562
160.00	1.415336	1.379260	1.343307	1.314602	1.313425	1.351671	1.390678	1.430208	1.469992
150.00	1.484756	1.447678	1.410153	1.378297	1.356255	1.398866	1.448436	1.499660	1.552146
140.00	1.556017	1.517758	1.478760	1.442415	1.418277	1.441429	1.504558	1.571133	1.640598
130.00	1.628485	1.588775	1.547932	1.508438	1.481075	1.474993	1.555274	1.641854	1.733975
120.00	1.701342	1.659803	1.616559	1.574385	1.540788	1.526155	1.595042	1.707753	1.830310
110.00	1.773597	1.729647	1.683175	1.637277	1.596744	1.578863	1.614689	1.761066	1.924307
100.00	1.741381	1.796891	1.746073	1.694989	1.648776	1.617727	1.621725	1.789309	2.010427
90.00	1.608979	1.738308	1.803424	1.745203	1.691144	1.649764	1.637326	1.772110	2.077041
80.00	1.458563	1.577693	1.707730	1.785825	1.721147	1.668990	1.641741	1.673053	2.097031
70.00	1.293218	1.398021	1.513495	1.639201	1.736757	1.668695	1.626088	1.626077	2.033510
60.00	1.118833	1.205525	1.301585	1.407336	1.522238	1.648854	1.574736	1.522967	1.759072
50.00	.944682	1.010898	1.083720	1.163570	1.251361	1.344994	1.453261	1.392034	1.423658
40.00	.858367	.878867	.882496	.929054	.983400	.999142	1.062658	1.273805	1.228390
30.00	.756011	.782375	.809363	.825210	.772004	.732243	.745177	.789834	1.089679
20.00	.653725	.670959	.687632	.703172	.680724	.680496	.595170	.471521	.503250
10.00	.556981	.566267	.574095	.579815	.550247	.536957	.513441	.483457	.403385
.00	.465547	.464818	.460872	.452696	.414352	.384345	.340939	.281998	.203035
-10.00	.373324	.356310	.331922	.297996	.239443	.176663	.102610	.048739	.004869
-20.00	.288197	.257509	.216454	.162422	.107067	.058804	.255871	.772106	.009054

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -10.00	.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
190.00	1.274003	1.289266	1.235893	1.179796	1.121798	1.062732	1.003397	.944519	.886952
180.00	1.345123	1.366405	1.305957	1.242323	1.176540	1.109641	1.042621	.976456	.912039
170.00	1.423265	1.452461	1.383696	1.311045	1.236064	1.159955	1.083966	1.009411	.939638
160.00	1.509914	1.549701	1.470833	1.387612	1.301451	1.214437	1.127524	1.043121	.972912
150.00	1.605609	1.659555	1.568311	1.471951	1.372644	1.272538	1.173320	1.078568	1.007727
140.00	1.712427	1.785739	1.678948	1.566203	1.450285	1.334180	1.220520	1.121051	1.043908
130.00	1.830676	1.930538	1.804295	1.671011	1.534556	1.398807	1.267296	1.166658	1.081523
120.00	1.960920	2.097628	1.945393	1.785615	1.625370	1.465837	1.319829	1.212177	1.119813
110.00	2.101557	2.289079	2.102841	1.908514	1.716258	1.527908	1.379498	1.258339	1.156437
100.00	2.255842	2.517848	2.285388	2.043751	1.804340	1.581970	1.423794	1.299171	1.189304
90.00	2.424623	2.800235	2.500512	2.190561	1.889271	1.643099	1.475119	1.330322	1.206993
80.00	2.598319	3.149501	2.752333	2.345571	1.958831	1.716557	1.523323	1.356006	1.213497
70.00	2.748115	3.574750	3.043500	2.508001	2.063106	1.793717	1.560961	1.367728	1.178338
60.00	2.851949	4.124789	3.389175	2.664995	2.189933	1.855830	1.581498	1.311532	1.053055
50.00	2.849340	4.879751	3.804641	2.832660	2.298095	1.884561	1.488543	1.111831	.865873
40.00	2.534865	6.016435	4.333626	3.084569	2.355063	1.717775	1.148562	.804859	.604234
30.00	1.471623	.000442	.604355	1.629417	2.045253	1.106030	.619992	.439520	.408313
20.00	.345729	.000676	.000352	.011077	.750117	.404347	.315704	.413885	.491487
10.00	.000889	.000308	.000379	.188312	.320818	.442107	.526602	.581765	.629444
.00	.000330	.000000	.000178	.351980	.454882	.540981	.600972	.636146	.669957
-10.00	.001734	.000000	.039682	.173429	.215109	.293281	.386997	.455324	.510914
-20.00	.010449	.000000	.032517	.194948	.236259	.245222	.272537	.323537	.370826

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 80.00	90.00	100.00	110.00
190.00	.835229	.795602	.761086	.728997
180.00	.861283	.818430	.781410	.746254
170.00	.888129	.842850	.801938	.763351
160.00	.916187	.867754	.822449	.780050
150.00	.946513	.892814	.842605	.795998
140.00	.978057	.917730	.861866	.810695
130.00	1.008913	.941805	.879601	.823541
120.00	1.037922	.963118	.895298	.833553
110.00	1.064012	.981032	.906644	.835756
100.00	1.085662	.993762	.905015	.821569
90.00	1.099998	.986808	.878241	.795698
80.00	1.077953	.940610	.834117	.755413
70.00	.993459	.864048	.768541	.697991
60.00	.875575	.755124	.675821	.620620
50.00	.710720	.614299	.555860	.538435
40.00	.497927	.488576	.498901	.523666
30.00	.454641	.500153	.528027	.542934
20.00	.535056	.559590	.570302	.571674
10.00	.638707	.635777	.624930	.609606
.00	.664295	.649660	.629844	.607801
-10.00	.530452	.536392	.533309	.524846
-20.00	.408209	.430259	.441200	.444592

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

** CONC OF ANY IN MICROGRAMS/M**3 **

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	6.016435	AT (	.00,	40.00)	GC	6.	3.574750	AT (	.00,	70.00)	GC
2.	4.879751	AT (	.00,	50.00)	GC	7.	3.389175	AT (	10.00,	60.00)	GC
3.	4.333626	AT (	10.00,	40.00)	GC	8.	3.149501	AT (	.00,	80.00)	GC
4.	4.124789	AT (	.00,	60.00)	GC	9.	3.084569	AT (	20.00,	40.00)	GC
5.	3.804641	AT (	10.00,	50.00)	GC	10.	3.043500	AT (	10.00,	70.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

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 *** MODELING OPTIONS USED:  CONC   RURAL  ELEV   FLGPOL


*** Message Summary : ISCLT3 Model Execution ***

 --------- Summary of Total Messages --------

A Total of           0 Fatal Error Message(s)
A Total of           0 Warning Message(s)
A Total of           0 Informational Message(s)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
              ***  NONE  ***


   ************************************
   *** ISCLT3 Finishes Successfully ***
   ************************************
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*** TRINITY DOWNWASH FILE NAME: C:\MODELS\EXFAN.WAK
CO STARTING
CO TITLEONE MAX CONCENTRATION INSIDE WIPP SITE BOUNDARY (90 Carlsbad Met)
CO TITLETWO Fine Receptor Grid(10x10m)/1000 µg/m^3 SrcConc
CO MODELOPT CONC RURAL
CO AVERTIME ANNUAL
CO POLLUTID ANY
CO TERRHGTS ELEV
CO FLAGPOLE 1.500000
CO RUNORNOT RUN
CO FINISHED
SO STARTING
SO LOCATION 1 POINT       0.00       0.00    1039.37
SO SRCPARAM 1 0.100000       8.20     288.80     4.6598      4.400
SO LOCATION 2 POINT       0.00       7.20    1039.37
SO SRCPARAM 2 0.100000       8.20     288.80     4.6598      4.400
SO BUILDHGT 1    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 1     6.55     6.55     0.00     0.00    11.22     0.00
SO BUILDHGT 1     6.55     6.55     2.04     6.55
SO BUILDWID  1             10.51    11.82    13.05      .00    30.72    33.44
SO BUILDWID  1             34.97    31.62      .00      .00    13.05      .00
SO BUILDWID  1             30.72    30.72     7.29    31.62
SO BUILDHGT 2    11.22    11.22    11.22     0.00     6.55     6.55
SO BUILDHGT 2     6.55     6.55     0.00     0.00     0.00     0.00
SO BUILDHGT 2     6.55     6.55     6.55     6.55
SO BUILDWID  2             10.51    11.82    12.68      .00    26.82    33.44
SO BUILDWID  2             34.97    33.72      .00      .00      .00      .00
SO BUILDWID  2             26.82    33.44    34.97    33.72
SO EMISUNIT 1000000.000000 GRAMS/SEC MICROGRAMS/M**3
SO SRCGROUP ALL
SO FINISHED
RE STARTING
RE ELEVUNIT FEET
RE GRIDCART COARSE   STA
RE GRIDCART COARSE   XYINC -100 22 10.00 -20.00 22 10.00
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 1     1.50     1.50
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RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 2	1.50	1.50		
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 3	1.50	1.50		
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 4	1.50	1.50		
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 5	1.50	1.50		
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 6	1.50	1.50		
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 7	1.50	1.50		
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 8	1.50	1.50	1.50	1.50

RE GRIDCART COARSE	FLAG 8	1.50	1.50		
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 9	1.50	1.50		
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 10	1.50	1.50		
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 11	1.50	1.50		
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 12	1.50	1.50		
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 13	1.50	1.50		
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 14	1.50	1.50		
RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50

RE GRIDCART COARSE	FLAG 15	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 15	1.50	1.50		
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 16	1.50	1.50		
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 17	1.50	1.50		
RE GRIDCART COARSE	FLAG 18	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 18	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 18	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 18	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 18	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 18	1.50	1.50		
RE GRIDCART COARSE	FLAG 19	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 19	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 19	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 19	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 19	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 19	1.50	1.50		
RE GRIDCART COARSE	FLAG 20	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 20	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 20	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 20	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 20	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 20	1.50	1.50		
RE GRIDCART COARSE	FLAG 21	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 21	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 21	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 21	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 21	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 21	1.50	1.50		
RE GRIDCART COARSE	FLAG 22	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 22	1.50	1.50	1.50	1.50
RE GRIDCART COARSE	FLAG 22	1.50	1.50	1.50	1.50

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RE GRIDCART COARSE   FLAG 22     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 22     1.50     1.50     1.50     1.50
RE GRIDCART COARSE   FLAG 22     1.50     1.50
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 1  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 2  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 3  3410.00  3410.00
RE GRIDCART COARSE   ELEV 4  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 4  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 4  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 4  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 4  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 4  3410.00  3410.00
RE GRIDCART COARSE   ELEV 5  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 5  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 5  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 5  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 5  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 5  3410.00  3410.00
RE GRIDCART COARSE   ELEV 6  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 6  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 6  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 6  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 6  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 6  3410.00  3410.00
RE GRIDCART COARSE   ELEV 7  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 7  3410.00  3410.00  3410.00  3410.00
```

RE GRIDCART COARSE	ELEV 7	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 7	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 7	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 7	3410.00	3410.00		
RE GRIDCART COARSE	ELEV 8	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 8	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 8	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 8	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 8	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 8	3410.00	3410.00		
RE GRIDCART COARSE	ELEV 9	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 9	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 9	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 9	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 9	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 9	3410.00	3410.00		
RE GRIDCART COARSE	ELEV 10	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 10	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 10	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 10	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 10	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 10	3410.00	3410.00		
RE GRIDCART COARSE	ELEV 11	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 11	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 11	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 11	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 11	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 11	3410.00	3410.00		
RE GRIDCART COARSE	ELEV 12	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 12	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 12	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 12	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 12	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 12	3410.00	3410.00		
RE GRIDCART COARSE	ELEV 13	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 13	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 13	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 13	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 13	3410.00	3410.00	3410.00	3410.00
RE GRIDCART COARSE	ELEV 13	3410.00	3410.00		
RE GRIDCART COARSE	ELEV 14	3410.00	3410.00	3410.00	3410.00

RE	GRIDCART	COARSE	ELEV 14	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 14	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 14	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 14	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 14	3410.00	3410.00		
RE	GRIDCART	COARSE	ELEV 15	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 15	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 15	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 15	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 15	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 15	3410.00	3410.00		
RE	GRIDCART	COARSE	ELEV 16	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 16	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 16	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 16	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 16	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 16	3410.00	3410.00		
RE	GRIDCART	COARSE	ELEV 17	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 17	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 17	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 17	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 17	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 17	3410.00	3410.00		
RE	GRIDCART	COARSE	ELEV 18	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 18	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 18	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 18	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 18	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 18	3410.00	3410.00		
RE	GRIDCART	COARSE	ELEV 19	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 19	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 19	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 19	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 19	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 19	3410.00	3410.00		
RE	GRIDCART	COARSE	ELEV 20	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 20	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 20	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 20	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 20	3410.00	3410.00	3410.00	3410.00
RE	GRIDCART	COARSE	ELEV 20	3410.00	3410.00		

```
RE GRIDCART COARSE   ELEV 21  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 21  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 21  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 21  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 21  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 21  3410.00  3410.00
RE GRIDCART COARSE   ELEV 22  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 22  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 22  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 22  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 22  3410.00  3410.00  3410.00  3410.00
RE GRIDCART COARSE   ELEV 22  3410.00  3410.00
RE GRIDCART COARSE   END
RE FINISHED
ME STARTING
ME INPUTFIL C:\MODELS\MET\CBD90.STR (7X,6F7.5)
ME ANEMHGHT   10.000 METERS
ME SURFDATA 11111 1990 CARLSBAD
ME UAIRDATA 11111 1990
ME STARDATA ANNUAL
ME AVESPEED   1.00   2.25   4.05   6.55   9.25  12.50
ME AVETEMPS ANNUAL 288.80 288.80 288.80 288.80 288.80 288.80
ME AVEMIXHT ANNUAL A 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL B 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL C 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL D 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL E 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME AVEMIXHT ANNUAL F 1435.00 1435.00 1435.00 1435.00 1435.00 1435.00
ME DTHETADZ A   0.00   0.00   0.00   0.00   0.00   0.00
ME DTHETADZ B   0.00   0.00   0.00   0.00   0.00   0.00
ME DTHETADZ C   0.00   0.00   0.00   0.00   0.00   0.00
ME DTHETADZ D   0.00   0.00   0.00   0.00   0.00   0.00
ME DTHETADZ E   0.01   0.01   0.01   0.01   0.01   0.01
ME DTHETADZ F   0.03   0.03   0.03   0.03   0.03   0.03
ME FINISHED
OU STARTING
OU RECTABLE SRCGRP
OU MAXTABLE 10 SRCGRP
OU PLOTFILE ANNUAL ALL C:\MODELS\ADM\ADMFC90A.GPH 70
OU FINISHED
***********************************
*** SETUP Finishes Successfully ***
```

****

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** MODEL SETUP OPTIONS SUMMARY ***

**Model Is Setup For Calculation of Average CONCentration Values.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses NO plume DEPLETION.

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Default Wind Profile Exponents.
5. User-Specified Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

```
**Model Calculates   1 STAR Average(s) for the Following Months:  0  0  0  0  0  0  0  0  0  0  0  0
                                            Seasons/Quarters:  0  0  0  0
                                                  and Annual:  1

**Data File Includes  1 STAR Summaries for the Following Months:  0  0  0  0  0  0  0  0  0  0  0  0
                                            Seasons/Quarters:  0  0  0  0
                                                  and Annual:  1
```

**This Run Includes: 2 Source(s); 1 Source Group(s); and 484 Receptor(s)

**The Model Assumes A Pollutant Type of: ANY

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)
Model Outputs External File(s) of Long Term Values for Plotting (PLOTFILE Keyword)

```
**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    .0000     ;    Rot. Angle =      .0
                 Emission Units = GRAMS/SEC                                ;  Emission Rate Unit Factor =    .10000E+07
                 Output Units   = MICROGRAMS/M**3
```

**Input Runstream File: admfc90a.dat ; **Output Print File: admfc90a.lst

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
1	0	.10000E+00	.0	.0	1039.4	8.20	288.80	4.66	4.40	YES	
2	0	.10000E+00	.0	7.2	1039.4	8.20	288.80	4.66	4.40	YES	

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	1 , 2 ,

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	13.1,	0	4	.0,	.0,	0
5	6.6,	30.7,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	31.6,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	11.2,	13.1,	0	12	.0,	.0,	0
13	6.6,	30.7,	0	14	6.6,	30.7,	0	15	2.0,	7.3,	0	16	6.6,	31.6,	0

SOURCE ID: 2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.2,	10.5,	0	2	11.2,	11.8,	0	3	11.2,	12.7,	0	4	.0,	.0,	0
5	6.6,	26.8,	0	6	6.6,	33.4,	0	7	6.6,	35.0,	0	8	6.6,	33.7,	0
9	.0,	.0,	0	10	.0,	.0,	0	11	.0,	.0,	0	12	.0,	.0,	0
13	6.6,	26.8,	0	14	6.6,	33.4,	0	15	6.6,	35.0,	0	16	6.6,	33.7,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-100.0,	-90.0,	-80.0,	-70.0,	-60.0,	-50.0,	-40.0,	-30.0,	-20.0,	-10.0,
.0,	10.0,	20.0,	30.0,	40.0,	50.0,	60.0,	70.0,	80.0,	90.0,
100.0,	110.0,								

*** Y-COORDINATES OF GRID ***
(METERS)

-20.0,	-10.0,	.0,	10.0,	20.0,	30.0,	40.0,	50.0,	60.0,	70.0,
80.0,	90.0,	100.0,	110.0,	120.0,	130.0,	140.0,	150.0,	160.0,	170.0,
180.0,	190.0,								

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -100.00	-90.00	-80.00	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00
190.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
180.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
170.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
160.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
150.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
140.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
130.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
120.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
110.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
100.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
90.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
80.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
70.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
60.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
50.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
40.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
30.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
20.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
10.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
-10.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
-20.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -10.00	.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
190.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
180.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
170.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
160.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
150.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
140.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
130.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
120.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
110.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
100.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
90.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
80.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
70.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
60.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
50.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
40.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
30.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
20.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
10.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
-10.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37
-20.00	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37	1039.37

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 80.00	90.00	100.00	110.00
190.00	1039.37	1039.37	1039.37	1039.37
180.00	1039.37	1039.37	1039.37	1039.37
170.00	1039.37	1039.37	1039.37	1039.37
160.00	1039.37	1039.37	1039.37	1039.37
150.00	1039.37	1039.37	1039.37	1039.37
140.00	1039.37	1039.37	1039.37	1039.37
130.00	1039.37	1039.37	1039.37	1039.37
120.00	1039.37	1039.37	1039.37	1039.37
110.00	1039.37	1039.37	1039.37	1039.37
100.00	1039.37	1039.37	1039.37	1039.37
90.00	1039.37	1039.37	1039.37	1039.37
80.00	1039.37	1039.37	1039.37	1039.37
70.00	1039.37	1039.37	1039.37	1039.37
60.00	1039.37	1039.37	1039.37	1039.37
50.00	1039.37	1039.37	1039.37	1039.37
40.00	1039.37	1039.37	1039.37	1039.37
30.00	1039.37	1039.37	1039.37	1039.37
20.00	1039.37	1039.37	1039.37	1039.37
10.00	1039.37	1039.37	1039.37	1039.37
.00	1039.37	1039.37	1039.37	1039.37
-10.00	1039.37	1039.37	1039.37	1039.37
-20.00	1039.37	1039.37	1039.37	1039.37

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -100.00	-90.00	-80.00	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00
190.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
180.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
170.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
160.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
150.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
140.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
130.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
120.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
110.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
100.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
90.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
80.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
70.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
60.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
50.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
40.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
30.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
20.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
10.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-10.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-20.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -10.00	.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
190.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
180.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
170.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
160.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
150.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
140.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
130.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
120.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
110.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
100.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
90.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
80.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
70.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
60.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
50.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
40.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
30.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
20.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
10.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-10.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
-20.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 80.00	90.00	100.00	110.00
190.00	1.50	1.50	1.50	1.50
180.00	1.50	1.50	1.50	1.50
170.00	1.50	1.50	1.50	1.50
160.00	1.50	1.50	1.50	1.50
150.00	1.50	1.50	1.50	1.50
140.00	1.50	1.50	1.50	1.50
130.00	1.50	1.50	1.50	1.50
120.00	1.50	1.50	1.50	1.50
110.00	1.50	1.50	1.50	1.50
100.00	1.50	1.50	1.50	1.50
90.00	1.50	1.50	1.50	1.50
80.00	1.50	1.50	1.50	1.50
70.00	1.50	1.50	1.50	1.50
60.00	1.50	1.50	1.50	1.50
50.00	1.50	1.50	1.50	1.50
40.00	1.50	1.50	1.50	1.50
30.00	1.50	1.50	1.50	1.50
20.00	1.50	1.50	1.50	1.50
10.00	1.50	1.50	1.50	1.50
.00	1.50	1.50	1.50	1.50
-10.00	1.50	1.50	1.50	1.50
-20.00	1.50	1.50	1.50	1.50

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
1	-20.0	-20.0	28.28
1	-10.0	-10.0	14.14
1	10.0	-10.0	14.14
1	-10.0	.0	10.00
1	.0	.0	.00
1	10.0	.0	10.00
1	.0	10.0	10.00
1	10.0	10.0	14.14
1	.0	20.0	20.00
1	10.0	20.0	22.36
1	20.0	20.0	28.28
1	.0	30.0	30.00
1	10.0	30.0	31.62
2	10.0	.0	12.32
2	-10.0	10.0	10.38
2	.0	10.0	2.80
2	-10.0	20.0	16.24
2	.0	20.0	12.80
2	10.0	20.0	16.24
2	.0	30.0	22.80
2	10.0	30.0	24.90
2	20.0	30.0	30.33

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***
(METERS/SEC)

1.00, 2.25, 4.05, 6.55, 9.25, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01	.10000E-01
F	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01	.30000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
ANNUAL	288.8000	288.8000	288.8000	288.8000	288.8000	288.8000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	ANNUAL WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY B	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY C	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY D	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY E	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000
STABILITY CATEGORY F	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000	1435.0000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD90.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1990 YEAR: 1990

ANNUAL: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00064000	.00083000	.00000000	.00000000	.00000000	.00000000
22.500	.00018000	.00024000	.00000000	.00000000	.00000000	.00000000
45.000	.00066000	.00059000	.00000000	.00000000	.00000000	.00000000
67.500	.00048000	.00035000	.00000000	.00000000	.00000000	.00000000
90.000	.00094000	.00095000	.00000000	.00000000	.00000000	.00000000
112.500	.00057000	.00047000	.00000000	.00000000	.00000000	.00000000
135.000	.00126000	.00083000	.00000000	.00000000	.00000000	.00000000
157.500	.00045000	.00059000	.00000000	.00000000	.00000000	.00000000
180.000	.00066000	.00059000	.00000000	.00000000	.00000000	.00000000
202.500	.00018000	.00024000	.00000000	.00000000	.00000000	.00000000
225.000	.00027000	.00035000	.00000000	.00000000	.00000000	.00000000
247.500	.00027000	.00035000	.00000000	.00000000	.00000000	.00000000
270.000	.00027000	.00035000	.00000000	.00000000	.00000000	.00000000
292.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
315.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
337.500	.00036000	.00047000	.00000000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00103000	.00213000	.00189000	.00000000	.00000000	.00000000
22.500	.00130000	.00213000	.00071000	.00000000	.00000000	.00000000
45.000	.00083000	.00177000	.00118000	.00000000	.00000000	.00000000
67.500	.00118000	.00307000	.00106000	.00000000	.00000000	.00000000
90.000	.00169000	.00284000	.00130000	.00000000	.00000000	.00000000
112.500	.00105000	.00402000	.00189000	.00000000	.00000000	.00000000
135.000	.00116000	.00556000	.00355000	.00000000	.00000000	.00000000
157.500	.00225000	.00721000	.00343000	.00000000	.00000000	.00000000
180.000	.00248000	.00520000	.00343000	.00000000	.00000000	.00000000
202.500	.00039000	.00071000	.00095000	.00000000	.00000000	.00000000
225.000	.00043000	.00095000	.00012000	.00000000	.00000000	.00000000
247.500	.00009000	.00059000	.00024000	.00000000	.00000000	.00000000
270.000	.00035000	.00047000	.00035000	.00000000	.00000000	.00000000
292.500	.00045000	.00024000	.00024000	.00000000	.00000000	.00000000
315.000	.00034000	.00130000	.00012000	.00000000	.00000000	.00000000
337.500	.00071000	.00189000	.00071000	.00000000	.00000000	.00000000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD90.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1990 YEAR: 1990

ANNUAL: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00080000	.00366000	.00816000	.00248000	.00012000	.00000000
22.500	.00035000	.00284000	.00343000	.00059000	.00000000	.00000000
45.000	.00025000	.00319000	.00118000	.00012000	.00000000	.00000000
67.500	.00036000	.00296000	.00130000	.00000000	.00000000	.00000000
90.000	.00056000	.00390000	.00343000	.00071000	.00000000	.00000000
112.500	.00067000	.00366000	.00473000	.00142000	.00000000	.00000000
135.000	.00029000	.00366000	.01017000	.00355000	.00012000	.00000000
157.500	.00069000	.00556000	.01324000	.00248000	.00035000	.00000000
180.000	.00040000	.00508000	.01206000	.00284000	.00024000	.00000000
202.500	.00034000	.00106000	.00106000	.00071000	.00000000	.00000000
225.000	.00016000	.00047000	.00047000	.00012000	.00024000	.00000000
247.500	.00030000	.00059000	.00177000	.00083000	.00071000	.00047000
270.000	.00047000	.00118000	.00225000	.00213000	.00165000	.00071000
292.500	.00031000	.00071000	.00083000	.00083000	.00024000	.00000000
315.000	.00035000	.00118000	.00095000	.00035000	.00000000	.00000000
337.500	.00033000	.00095000	.00189000	.00059000	.00012000	.00000000

ANNUAL: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00043000	.00461000	.00875000	.01572000	.00307000	.00059000
22.500	.00042000	.00248000	.00402000	.00449000	.00047000	.00035000
45.000	.00044000	.00284000	.00496000	.00343000	.00035000	.00012000
67.500	.00037000	.00177000	.00366000	.00201000	.00000000	.00000000
90.000	.00058000	.00307000	.00579000	.00496000	.00035000	.00000000
112.500	.00042000	.00248000	.00603000	.00378000	.00035000	.00000000
135.000	.00100000	.00556000	.01312000	.01820000	.00201000	.00059000
157.500	.00073000	.00520000	.02506000	.02376000	.00225000	.00024000
180.000	.00096000	.00496000	.01962000	.01466000	.00071000	.00047000
202.500	.00028000	.00225000	.00319000	.00366000	.00118000	.00035000
225.000	.00064000	.00201000	.00390000	.00319000	.00106000	.00024000
247.500	.00034000	.00130000	.00544000	.01253000	.00532000	.00189000
270.000	.00021000	.00307000	.00768000	.02624000	.01548000	.00662000
292.500	.00049000	.00165000	.00402000	.00922000	.00213000	.00071000
315.000	.00039000	.00213000	.00366000	.00485000	.00047000	.00012000
337.500	.00046000	.00307000	.00721000	.00969000	.00414000	.00059000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: C:\MODELS\MET\CBD90.STR FORMAT: (7X,6F7.5)

SURFACE STATION NO.: 11111 UPPER AIR STATION NO.: 11111
NAME: CARLSBAD NAME: UNKNOWN
YEAR: 1990 YEAR: 1990

ANNUAL: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00390000	.00473000	.00000000	.00000000	.00000000
22.500	.00000000	.00130000	.00130000	.00000000	.00000000	.00000000
45.000	.00000000	.00071000	.00118000	.00000000	.00000000	.00000000
67.500	.00000000	.00118000	.00154000	.00000000	.00000000	.00000000
90.000	.00000000	.00165000	.00189000	.00000000	.00000000	.00000000
112.500	.00000000	.00154000	.00236000	.00000000	.00000000	.00000000
135.000	.00000000	.00414000	.00863000	.00000000	.00000000	.00000000
157.500	.00000000	.00721000	.01797000	.00000000	.00000000	.00000000
180.000	.00000000	.01005000	.02364000	.00000000	.00000000	.00000000
202.500	.00000000	.00284000	.00934000	.00000000	.00000000	.00000000
225.000	.00000000	.00366000	.00792000	.00000000	.00000000	.00000000
247.500	.00000000	.00236000	.01206000	.00000000	.00000000	.00000000
270.000	.00000000	.00390000	.01478000	.00000000	.00000000	.00000000
292.500	.00000000	.00461000	.01229000	.00000000	.00000000	.00000000
315.000	.00000000	.00260000	.00603000	.00000000	.00000000	.00000000
337.500	.00000000	.00154000	.00402000	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (2.250 M/S)	WIND SPEED CATEGORY 3 (4.050 M/S)	WIND SPEED CATEGORY 4 (6.550 M/S)	WIND SPEED CATEGORY 5 (9.250 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00468000	.00993000	.00000000	.00000000	.00000000	.00000000
22.500	.00242000	.00520000	.00000000	.00000000	.00000000	.00000000
45.000	.00155000	.00201000	.00000000	.00000000	.00000000	.00000000
67.500	.00120000	.00248000	.00000000	.00000000	.00000000	.00000000
90.000	.00258000	.00390000	.00000000	.00000000	.00000000	.00000000
112.500	.00174000	.00461000	.00000000	.00000000	.00000000	.00000000
135.000	.00246000	.00745000	.00000000	.00000000	.00000000	.00000000
157.500	.00425000	.01430000	.00000000	.00000000	.00000000	.00000000
180.000	.00608000	.02352000	.00000000	.00000000	.00000000	.00000000
202.500	.00264000	.00981000	.00000000	.00000000	.00000000	.00000000
225.000	.00254000	.00674000	.00000000	.00000000	.00000000	.00000000
247.500	.00388000	.00768000	.00000000	.00000000	.00000000	.00000000
270.000	.00378000	.01312000	.00000000	.00000000	.00000000	.00000000
292.500	.00431000	.01678000	.00000000	.00000000	.00000000	.00000000
315.000	.00265000	.00827000	.00000000	.00000000	.00000000	.00000000
337.500	.00287000	.00603000	.00000000	.00000000	.00000000	.00000000

SUM OF FREQUENCIES, FTOTAL = .99995

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -100.00	-90.00	-80.00	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00
190.00	1.102467	1.158826	1.221442	1.335687	1.478873	1.629453	1.786217	1.947673	2.112065
180.00	1.108006	1.166693	1.232545	1.325720	1.485780	1.655425	1.833302	2.017618	2.206207
170.00	1.110313	1.172082	1.240023	1.317314	1.481780	1.673673	1.876571	2.088318	2.306204
160.00	1.108625	1.173278	1.243332	1.323659	1.462888	1.681128	1.914168	2.159425	2.413485
150.00	1.102139	1.169359	1.242580	1.325761	1.430493	1.672364	1.941714	2.228032	2.526997
140.00	1.090064	1.159320	1.235601	1.320534	1.420285	1.640335	1.953996	2.291446	2.647181
130.00	1.071608	1.142087	1.220724	1.308417	1.412293	1.574123	1.941687	2.342966	2.770954
120.00	1.046065	1.116609	1.196473	1.286967	1.392416	1.518340	1.891523	2.373039	2.894079
110.00	1.012981	1.081949	1.161345	1.253055	1.359217	1.491089	1.782566	2.362982	3.002623
100.00	.946023	1.037508	1.114075	1.204594	1.311843	1.441171	1.629657	2.288250	3.084090
90.00	.870382	.950278	1.053997	1.139880	1.245013	1.373527	1.533482	2.112102	3.122024
80.00	.783733	.858496	.939507	1.058276	1.156421	1.282051	1.440517	1.763442	3.064848
70.00	.687611	.754665	.827817	.907427	1.045721	1.161001	1.316196	1.517582	2.832734
60.00	.585130	.641940	.703992	.772023	.846804	1.010851	1.141904	1.321118	2.208583
50.00	.481347	.526024	.574064	.626066	.683683	.748959	.913546	1.080104	1.419055
40.00	.448285	.453338	.451162	.480793	.515724	.539853	.591363	.827733	1.062451
30.00	.435156	.436432	.432954	.420929	.384346	.362097	.381464	.427686	.754075
20.00	.424749	.423508	.416431	.401472	.365341	.330117	.269820	.203071	.251146
10.00	.418483	.416601	.408721	.392685	.353464	.315500	.269236	.220799	.166939
.00	.383468	.377385	.365132	.344824	.303126	.261321	.211207	.157361	.105733
-10.00	.292492	.273326	.246593	.210869	.159542	.105825	.051661	.021203	.002275
-20.00	.207180	.176707	.138051	.090643	.048322	.016322	.165609	.539415	.007677

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) -10.00	.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00
190.00	2.277956	2.443372	2.207652	1.968591	1.729608	1.493948	1.264542	1.043898	.834366
180.00	2.397167	2.587957	2.323422	2.055116	1.787310	1.524015	1.268813	1.024829	.794608
170.00	2.527712	2.749530	2.450901	2.147902	1.846122	1.550493	1.265426	.994861	.769218
160.00	2.672992	2.933516	2.593692	2.249133	1.906514	1.572536	1.252183	.950846	.794262
150.00	2.834061	3.143243	2.753217	2.357932	1.966337	1.586568	1.225357	.900772	.825806
140.00	3.014986	3.386605	2.934243	2.476148	2.024133	1.588859	1.179376	.913216	.860183
130.00	3.216894	3.669590	3.139112	2.602521	2.075820	1.573220	1.105785	.956714	.898157
120.00	3.441535	4.001420	3.369303	2.732254	2.115532	1.530689	1.076593	1.003624	.939970
110.00	3.682908	4.382370	3.619835	2.854147	2.121549	1.437962	1.138203	1.055661	.984647
100.00	3.944575	4.833965	3.901471	2.967979	2.079447	1.326708	1.184012	1.105480	1.031727
90.00	4.238219	5.401286	4.231628	3.068095	1.978955	1.359204	1.250487	1.152921	1.067722
80.00	4.547877	6.115063	4.606899	3.122836	1.768957	1.459049	1.328982	1.210057	1.104469
70.00	4.831633	7.014118	5.017674	3.085256	1.757011	1.578395	1.413924	1.268212	1.109375
60.00	5.039189	8.194150	5.446136	2.859057	1.944157	1.708555	1.501276	1.269848	1.031841
50.00	5.036280	9.822060	5.824366	2.606087	2.156241	1.842127	1.488406	1.129595	.900220
40.00	4.398587	12.252350	5.940111	2.914804	2.381149	1.790908	1.219995	.887612	.696962
30.00	2.163015	.000305	1.236609	1.604103	2.227657	1.243222	.755251	.620023	.653762
20.00	.391404	.000466	.000168	.030706	.903163	.687474	.709382	.937521	1.109186
10.00	.000770	.000212	.001068	.670649	1.048137	1.345416	1.510961	1.593307	1.671337
.00	.000172	.000018	.000290	1.272013	1.544162	1.702706	1.780133	1.801134	1.844003
-10.00	.002017	.002822	.202214	.320476	.565019	.780483	1.002190	1.154784	1.286605
-20.00	.013557	.026502	.490767	.271745	.296861	.404241	.496856	.642007	.774705

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

*** NETWORK ID: COARSE ; NETWORK TYPE: GRIDCART ***

** CONC OF ANY IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 80.00	90.00	100.00	110.00
190.00	.683746	.655306	.630528	.607161
180.00	.705799	.675252	.648839	.623245
170.00	.729179	.697219	.667996	.639881
160.00	.754542	.720568	.688080	.657044
150.00	.783120	.745327	.709102	.674740
140.00	.814639	.771610	.730931	.692834
130.00	.847679	.799628	.753409	.711137
120.00	.882144	.827693	.777020	.729154
110.00	.917954	.856218	.799397	.741855
100.00	.954756	.884393	.812003	.739074
90.00	.990778	.897658	.802347	.728452
80.00	.995857	.875833	.780407	.708148
70.00	.944282	.830234	.742995	.674893
60.00	.869848	.758822	.683074	.625730
50.00	.754627	.661355	.600071	.596148
40.00	.598160	.627236	.672544	.739627
30.00	.773469	.873812	.934084	.966002
20.00	1.185242	1.219140	1.224944	1.212520
10.00	1.641400	1.592988	1.534444	1.471329
.00	1.775496	1.698348	1.618179	1.538657
-10.00	1.312974	1.310662	1.290192	1.258751
-20.00	.877298	.939111	.972013	.984821

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 ,

** CONC OF ANY IN MICROGRAMS/M**3 **

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	12.252350	AT (	.00,	40.00)	GC	6.	5.940111	AT (	10.00,	40.00)	GC
2.	9.822060	AT (	.00,	50.00)	GC	7.	5.824366	AT (	10.00,	50.00)	GC
3.	8.194150	AT (	.00,	60.00)	GC	8.	5.446136	AT (	10.00,	60.00)	GC
4.	7.014118	AT (	.00,	70.00)	GC	9.	5.401286	AT (	.00,	90.00)	GC
5.	6.115063	AT (	.00,	80.00)	GC	10.	5.039189	AT (	-10.00,	60.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL

*** Message Summary : ISCLT3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 0 Informational Message(s)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCLT3 Finishes Successfully ***
****

ATTACHMENT B

TOPOGRAPHIC MAPS

INSERT WIPP AND CARLSBAD AIRPORT TOPO MAPS HERE

ATTACHMENT C

QUALITY ASSURANCE

QUALITY ASSURANCE SUMMARY

Quality Assurance (QA) for the model runs consists of: 1) a summary of QA tests performed by the Environmental Protection Agency (EPA) on the Industrial Source Complex (ISC)2 model and 2) an independent review of the Department of Energy's (DOE's) model runs by Trinity Consultants, Inc. Both reports are attached.

The EPA QA test summary serves as the validation of the ISC2 model. For model verification, Trinity Consultants Inc. reviewed the model input and ran the input files to ensure that the data were derived and input correctly, the copy of the model code used was unchanged, and the hardware used to run the code did not influence the results of the model runs. Upon incorporation of Trinity's comments, the results of their model runs were exactly the same as those contained in this attachment.

SUMMARY OF THE QUALITY ASSURANCE AND EQUIVALENCE TESTS PERFORMED ON THE ISC2 MODELS

(From the EPA Support Center for Regulatory Air Models [SCRAM] Bulletin Board System [BBS] on April 24, 1995)

MARCH 1992

1 INTRODUCTION

This report presents a summary of the quality assurance and testing procedures that were used during the development of the ISC2 models, and summarizes the results of the ISC2 testing. A brief overview of the QA/Test Plan is presented in Section 2, followed in Section 3 by a summary of the tests performed at various stages in the software development cycle, and concluding with a discussion of the results of equivalence tests using standard EPA test data sets.

2 OVERVIEW OF QA/TEST PLAN

The ISC2 reprogramming effort included the preparation of a detailed Quality Assurance (QA) and Test Plan for the software development process as one of the earliest steps. The QA/Test Plan included a discussion of the goals of the reprogramming effort, established standard operating procedures for programming that addressed coding style, language standards, and documentation practices, and outlined a detailed test plan. The test plan stressed the importance of testing the code at each phase of the development process, including independent review of the design of individual modules, testing individual modules with standard test data, testing of groups of modules during the module integration phase, extensive system level testing, and outside review and testing of beta (draft) versions of the ISC2 software.

3 SUMMARY OF ISC2 TESTING

3.1 Module Level Testing

Individual modules were designed using structured English diagrams, or pseudo-code, to document the overall flow and structure of the program. The actual code was developed from these pseudocode files as a natural extension to executable Fortran statements. In many cases, the pseudocode remained in the actual Fortran source code files as comments to clarify the processing steps. Important modules were tested by code walkthroughs and other independent review mechanisms.

Most individual modules, particularly the calculation modules, underwent testing with standard test data once the Fortran code was written and compiled. In the absence of functioning module interfaces and data input routines, the module testing made use of the Fortran NAMELIST extension for inputting and outputting list-directed data. In this way, the input and output

variables specific to a module could be conveniently read in and written out without the need for burdensome I/O statements.

The most intensive module level testing was performed for certain modules that are involved with the more complex model computations. These included the modules that calculate the vertical term of the concentration equation, the module that solves the cubic equation for Schulman-Scire plume rise and for urban virtual distances for stabilities A and B, and the module that calculates the error function term for the finite line segment area source algorithm in the Short Term model. Using the NAMELIST test driver, the input parameters for these modules were systematically varied over the full range of possible inputs, and the results were compared with the comparable algorithms from the original ISC model. The tests of the CUBIC module were particularly intensive since the new model uses Newton's method to solve the cubic equation, which is a different method from that used in the original ISC models. This method was chosen for its efficiency, accuracy and stability over the full range of inputs, and for the better clarity of the code involved. One result of these detailed tests of the CUBIC module was the adjustment of the convergence criterion to obtain more accurate results for cases with very small plume rise. The development and testing of the error function module included an examination and comparison of several methods extracted from different models. The method used in the original ISCST model was retained, although restructured, because it appeared to be the most efficient, and gave comparable results to the other methods.

3.2 Module Integration Testing

Additional testing was performed during the module integration phase of the software development. The NAMELIST test driver approach was also used during this phase, particularly for the calculation modules. The setup processing modules were integrated and tested for each of the functional pathways using live input runstream data. This included testing of the data entry and extraction, as well as the error handling capabilities of the setup modules.

Module integration testing for the calculation modules was performed in stages, from the initial integration of the dispersion parameter modules to the full testing of the Schulman-Scire plume rise algorithms. In order to perform the latter testing, essentially all of the plume rise and dispersion parameter modules had to be integrated. The integration testing served to check the module interfaces and the flow of data.

Another important area of module integration testing involved the averaging and sorting routines of the model. In order to test these routines independent of the calculation modules, a binary concentration file of hourly results was generated by the original ISCST model to provide the raw concentration values for input to the new ISCST2 modules. In this way, all of the "bookkeeping" routines of the new model could be tested by direct comparison to the original model. As part of this testing, it was discovered that the original ISCST model contains an inconsistency between the high value by receptor and the overall maximum value summaries in the treatment of cases

with the same concentration (or deposition) value. The high value by receptor routines retain the earlier occurrence of the value, while the overall maximum 50 value routines keep the most recent occurrence. The sorting routines in the ISCST2 model consistently retain the earlier occurrence in these situations.

3.3 System Level Testing

Once all of the modules were integrated and the model input processing routines were fully functional, system level testing could be performed. System testing involved a broad range of activities. These included re-testing conditions tested under the previous stages of development, testing cases with predetermined results, systematically varying inputs to test transition points in the algorithms (especially important for the building downwash algorithms), testing normal and extreme ranges of input parameters, and testing realtime applications. An important part of this testing involved comparisons of results between the ISC2 models and the original ISC models. It was out of the need to make side-by-side comparisons for the same input data that the file conversion utility, STOLDNEW, was developed in stages.

The most intensive system level testing involved exercising the regulatory default options, since these are the most important to the user community. The building downwash algorithms were also tested intensively due to their complexity and in light of the numerous bugs associated with those algorithms in the earlier versions of ISC. The non-regulatory default options, including gradual plume rise, no BID, no stack tip downwash, and no calms processing, were also tested thoroughly. Tests were performed for both concentration calculations and deposition calculations. In addition to several realtime meteorological data sets, smaller test data sets of meteorological data were developed with variables covering a full range of possible inputs.

During the various phases of testing the models, several discrepancies were discovered between the ISC2 models and the earlier versions of ISC. Many of these discrepancies involved the building downwash algorithms, and especially the calculation of gradual momentum plume rise. Each discrepancy identified was carefully evaluated, and a resolution was reached for incorporation into the ISC2 models. An effort was also made to incorporate fixes for these discrepancies into the original ISC models, primarily for testing of the ISC2 corrections and to verify the cause and resolution of the discrepancy. The ISCST fixes are considered to be fairly complete, although they are in draft form and have not been released. Due to some fundamental flaws in the design of the ISCLT model's treatment of the direction-specific building downwash algorithms, it was not possible to complete the fixes for that model without major rewriting of the original code. Due to the number of discrepancies and the sometimes obscure nature of the causes, it is not practical to list all of them here. A brief description of some of the main problem areas was included with the original READ-ME.TXT file included with the first draft of ISC2 placed on the SCRAM BBS in September 1991. Overall, the discrepancies are not likely to effect design values significantly for most routine applications of the models for buoyant point sources or for volume sources. All values for area sources modeled with the ISCST2 model will be about 11.4 percent lower than corresponding values generated by the original

ISCST model. The most significant differences are likely to be for point sources dominated by momentum plume rise with no downwash and with Huber-Snyder downwash.

An important phase of the system testing involved automated point-by-point comparisons of the ISCST2 results with the original ISCST results for a large number of sources where the input parameters were varied systematically across a broad range of expected values. The results were compared on a point-by-point and hour-by-hour basis by a program that was developed to read the binary concentration files generated by each of the models. One of the ISC2 beta reviewers, Mark Garrison of United Engineers and Constructors, provided input data sets for this purpose that were developed during a performance evaluation of another dispersion model. Results from some of these comparisons are presented below in Section 4 of this report.

3.4 Beta Review and Testing

In addition to the system testing performed by the developers of the ISC2 code, draft versions of the models were sent to selected individuals and organizations for independent testing and beta review. The beta reviewers included EPA Regional and State modelers, as well as modelers from other Federal agencies, private industry and consulting firms. Additional system testing was being performed concurrent with the beta review. The beta reviewers were given draft versions of the models including source code, draft versions of the user's guide, and a list of specific issues for which feedback was solicited. Comments and suggestions from the beta reviewers were evaluated and incorporated into the final versions of the models where appropriate and practical.

3.5 Final Acceptance Testing

The final phase of testing for the ISC2 models is referred to as final acceptance testing. This involved review of the complete ISC2 package by EPA, and included the release of draft versions of the ISC2 models and draft user's guide to the modeling community by placing them on the SCRAM BBS. The first drafts were placed on SCRAM in September 1991, followed about two months later by revised drafts of the Short Term models, and by revised drafts of all models in early February 1992. Comments were received from several users through a special public message area in the Model Conference section of SCRAM. This final acceptance testing resulted in several bugs being identified and corrected. Additional system testing was performed concurrent with final acceptance testing. This was focused primarily on testing the lesser used options of the model and on challenging the error handling and reporting capabilities of the models. Also performed as part of the final acceptance testing were standard equivalence tests used by EPA in evaluating past changes to the models. These equivalence tests, which focus on a comparison of design values for a small number of representative sources, are summarized in the next section.

4 ISC2 EQUIVALENCE TESTS

This section describes tests that were performed on the ISC2 models to document their equivalence to the original ISC models. Two types of tests are summarized here. The first involves comparisons of predicted design values based on standard test data sets used by EPA in evaluating past changes to the models. This type of comparison is presented below for both the ISCST2 and ISCLT2 models. Another type of test for the ISCST2 model involves automated comparisons of results on a point-by-point and hour-by-hour basis using the binary concentration files generated by both models.

4.1 ISCST2 vs. ISCST Design Value Comparisons

The results of the equivalence tests involving comparisons of design values showed the ISCST2 results to be nearly identical to the ISCST (Version 90346) design values. The tests included six point sources with flat terrain, two point sources with elevated terrain, an elevated volume source, and an elevated area source. The sources were modeled using a 180 receptor polar network with one year of Pittsburgh (1964) meteorological data and one year of Oklahoma City (1984) meteorological data. All cases were modeled with both rural dispersion coefficients and with urban dispersion coefficients. The point source characteristics were as follows:

Stack Height (m)	Stack Temp. (K)	Exit Vel. (m/s)	Stack Diam. (m)	Bldg. Height (m)	Bldg. Width (m)	Elev. Terrain
35	432	11.7	2.4	NA	NA	No
35	432	11.7	2.4	34	60	No
35	432	11.7	2.4	34	30	No
35	432	11.7	2.4	34	180	No
100	416	18.8	4.6	NA	NA	No
200	425	26.5	5.6	NA	NA	No
35	432	11.7	2.4	NA	NA	Yes
200	425	26.5	5.6	NA	NA	Yes

The volume source had a release height of 35 meters, an initial lateral dimension of 14 meters and an initial vertical dimension of 16 meters. The area source had a release height of 35 meters and a width of 1000 meters. Receptor distances (in meters) for the six point sources with no terrain and for the volume and area sources were 125, 250, 400, 800, and 2000. The receptor distances for the cases with elevated terrain were 800, 2000, 4000, 7000, and 15000.

The design values examined included the highest and high-second-high 1-hour, 3-hour and 24-hour averages, and the highest annual averages. A total of 280 design values were compared. With the exception of the 24-hour Oklahoma City averages for the three building downwash sources for rural dispersion, all of the design values agreed to within a few hundredths or a few thousandths of a percent difference. The 24-hour Oklahoma City rural downwash values differed by a few tenths of percent, with the difference attributed to an error in the treatment of enhanced lateral dispersion for cases with the wake plume height less than 1.2 building heights by the original ISCST model. This difference

was resolved with the "fixed" version of the ISCST model.

4.2 ISCLT2 vs. ISCLT Design Value Comparisons

The same six point sources without elevated terrain used for the Short Term equivalence tests were also used in the Long Term model equivalence tests. The 200-meter release with elevated terrain was also examined, along with a volume source (10-meter release height and 10-meter initial lateral and vertical dispersion), and an area source (10-meter release height and 100-meter width). All sources were modeled with an annual STAR summary for the 1964 Pittsburgh data. The results of the equivalence tests for the Long Term model also showed only insignificant differences (less than 0.1 percent) between the highest annual averages from ISCLT2 and ISCLT (Version 90008) for the point sources, but showed larger differences for the area and volume sources examined. The highest annual average for the volume source for ISCLT2 was about 1.4 percent larger than the ISCLT high annual value, and the highest annual average for the area source for ISCLT2 was about 5 percent lower than the ISCLT high annual value. These differences are attributed, at least in part, to an error in the original ISCLT model in the treatment of lateral virtual distances. The differences were largest at the closer receptor distances, especially for the area source.

4.3 ISCST2 vs. ISCST Binary File Comparisons

A more intensive and complete testing of the ISCST2 model involved automated comparisons of hourly results using the binary concentration output file options of both the ISCST2 and ISCST models for a large number of source scenarios. A total of 365 different sources were included in these tests, which were broken down as follows:

100 point sources with no downwash
100 point sources with Huber-Snyder downwash
100 point sources with Schulman-Scire downwash
48 volume sources
17 area sources

The stack parameters for the point sources included a range of inputs for the release height, exit temperature, exit velocity and stack diameter covering a broad spectrum of source scenarios. These included momentum dominated plumes with no buoyancy as well as highly buoyant plumes. The volume and area source scenarios also covered a broad range of inputs, with five of the area sources including variable emission rate factors.

Receptors were located at various distances ranging from very near the source out to 100,000 meters downwind, with locations along the plume centerline and at about 10 degrees off-centerline. At each distance, receptors were placed at ground level and at two terrain elevations for the point sources. A total of 60 receptors were used for the point sources with no downwash, 54 receptors were used for the points sources with downwash, and 88 receptors were used for the volume and area sources.

The input meteorological data included 144 hours for the point sources and 24 hours for the volume and area sources. The larger number of hours for the point sources were to account for the dependence of plume rise on input meteorological conditions. The meteorological data for point sources included wind speeds at 0.5 m/s increments for the valid range of speeds for each stability category for two different mixing heights. The meteorological data for the volume and area sources also included each stability class with a smaller range of wind speeds and with two different mixing heights. Altogether, over 5 million data points were compared between the ISCST2 and ISCST models.

The results of these comparisons are presented in the following tables. The tables present the number of occurrences for various categories of the percent difference, stratified by the absolute value of the original ISCST result. Totals are given for each column, as well as for the total number of comparisons for each case and the total number of cases where both models indicated a value of 0.0. The percent differences were calculated as follows: [(New-Old)/Old]*100. Thus, a negative percent difference indicates that the ISCST2 value was less than the original or "fixed" ISCST value. Also, values in a particular column are for cases that were less than or equal to the percent difference given above the column and greater than the percent difference for the column to the left. Thus, cases under the column labeled ".20" are for cases where the percent difference was less than or equal to 0.20 percent but greater than -0.20 percent. For the ISCST2 vs. Original ISCST cases, about 92.8 percent of the cases fell into this category, while for the ISCST2 vs. "Fixed" ISCST cases, about 99.5 percent fell into this category. About 95.5 percent of the ISCST2 vs. Original ISCST occurrences fell with the range of plus or minus 2.0 percent, while about 99.5 percent of the ISCST2 vs. "Fixed" ISCST occurrences fell within this range. Most of the remaining occurrences for the ISCST2 vs. "Fixed" ISCST cases were for instances where the ISCST2 model predicted a value of 0.0 and the ISCST model predicted a very small value (less than or equal to 1.0E-6). These values are included in the upper left hand "cell" of the tables, and are indicative of slight differences in the lateral "truncation" of the plume between the two models due to rounding errors.

The results are presented in the following order:

100 Point Sources; No Downwash; Rural Dispersion; ISCST2 vs. Original ISCST
100 Point Sources; No Downwash; Rural Dispersion; ISCST2 vs. "Fixed" ISCST
100 Point Sources; No Downwash; Urban Dispersion; ISCST2 vs. Original ISCST
100 Point Sources; No Downwash; Urban Dispersion; ISCST2 vs. "Fixed" ISCST

100 Point Sources; H-S Downwash; Rural Dispersion; ISCST2 vs. Original ISCST
100 Point Sources; H-S Downwash; Rural Dispersion; ISCST2 vs. "Fixed" ISCST
100 Point Sources; H-S Downwash; Urban Dispersion; ISCST2 vs. Original ISCST
100 Point Sources; H-S Downwash; Urban Dispersion; ISCST2 vs. "Fixed" ISCST

100 Point Sources; S-S Downwash; Rural Dispersion; ISCST2 vs. Original ISCST
100 Point Sources; S-S Downwash; Rural Dispersion; ISCST2 vs. "Fixed" ISCST
100 Point Sources; S-S Downwash; Urban Dispersion; ISCST2 vs. Original ISCST

100 Point Sources; S-S Downwash; Urban Dispersion; ISCST2 vs. "Fixed" ISCST

48 Volume Sources; Rural Dispersion; ISCST2 vs. Original ISCST
48 Volume Sources; Rural Dispersion; ISCST2 vs. "Fixed" ISCST
48 Volume Sources; Urban Dispersion; ISCST2 vs. Original ISCST
48 Volume Sources; Urban Dispersion; ISCST2 vs. "Fixed" ISCST

17 Area Sources; Rural Dispersion; ISCST2 vs. Original ISCST
17 Area Sources; Rural Dispersion; ISCST2 vs. "Fixed" ISCST
17 Area Sources; Urban Dispersion; ISCST2 vs. Original ISCST
17 Area Sources; Urban Dispersion; ISCST2 vs. "Fixed" ISCST

Most of the largest differences in the ISCST2 vs. Original ISCST tables are associated with point sources with plume rise dominated by momentum. The consistent differences between the area source results of about -11.4 percent are due to an error in the derivation of the equation for the finite line segment algorithm for modeling area sources in ISCST. The vast majority of occurrences for the ISCST2 vs. "Fixed" ISCST cases fall within the range of plus or minus 0.2 percent, or fall into the category of a zero ISCST2 value and a very small ISCST value. A few occurrences for the rural downwash scenarios fall outside the +/- 0.2 percent range, but most of those are still within +/- 2.0 percent. These are primarily attributable to an error in the original ISCST model that was not practical to fix. The original ISCST model occasionally uses an incorrect set of coefficients for the calculation of vertical virtual distance in the rural mode. This calculation is performed by an iterative process in both models, where an estimate of virtual distance is made based on the coefficients corresponding to the source-receptor distance, and then the value of X+Xz is checked to see if it falls within the same distance range for coefficients. The original ISCST model occasionally selects coefficients for the distance range beyond the correct range, but does not allow for stepping back to the previous distance range.

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100 POINT SOURCES; NO DOWNWASH; RURAL DISPERSION; ISCST2 vs. Original ISCST

NUMREC = 60
NUMBER OF HOURS OF METEOROLOGY = 144

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	6028	474	378	316	516	233567	2774	852	796	310
5300										
.1000E-04	0	108	44	26	64	7677	623	64	70	74
436										
.1000E-03	0	62	60	52	92	8034	691	60	110	94
384										
.1000E-02	6	46	60	6	20	26065	930	40	108	148
338										
.1000E-01	6	64	62	54	140	67649	1020	16	92	180
440										
.1000	0	90	72	40	60	87815	990	0	114	206
386										
1.000	0	46	74	68	168	132611	1472	120	218	229
1498										
10.00	0	30	72	50	168	118777	3632	348	602	123
852										
100.0	0	38	84	36	206	66300	6836	2503	2024	498
1118										
1000.	0	42	18	68	238	25861	2805	1770	7594	4932
2890										
.1000E+05	0	42	96	36	58	4492	676	558	1722	5194
3318										
.1000E+06	0	46	20	2	12	882	650	100	302	702
468										
.1000E+07	0	8	2	2	2	34	14	6	6	118
14										
	0	0	0	0	0	0	0	0	0	0
0										
TOTAL=	6040	1096	1042	756	1744	779764	23113	6437	13758	12808
17442										

TOTAL NUMBER OF COMPARISONS = 864000

NUMBER OF ZERO COMBINATIONS = 201756

---

100 POINT SOURCES; NO DOWNWASH; RURAL DISPERSION; ISCST2 vs. "Fixed" ISCST

NUMREC = 60
NUMBER OF HOURS OF METEOROLOGY = 144

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	6494	0	0	0	0	243653	0	0	0	0
.1000E-04	0	0	0	0	0	9258	0	0	0	0
.1000E-03	0	0	0	0	0	9810	0	0	0	0
.1000E-02	0	0	0	0	0	27865	0	0	0	0
.1000E-01	0	0	0	0	0	69575	0	0	0	0
.1000	0	0	0	0	0	89513	0	0	0	0
1.000	0	0	0	0	0	135054	0	0	0	0
10.00	0	0	0	0	0	123793	0	0	0	0
100.0	0	0	0	0	0	78293	0	0	0	0
1000.	0	0	0	0	0	42752	0	0	0	0
.1000E+05	0	0	0	0	0	15694	0	0	0	0
.1000E+06	0	0	0	0	0	10352	0	0	0	0
.1000E+07	0	0	0	0	0	1894	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL=	6494	0	0	0	0	857506	0	0	0	0

TOTAL NUMBER OF COMPARISONS = 864000

NUMBER OF ZERO COMBINATIONS = 201292

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100 POINT SOURCES; NO DOWNWASH; URBAN DISPERSION; ISCST2 vs. Original ISCST

NUMREC = 60
NUMBER OF HOURS OF METEOROLOGY = 144

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	3862	410	296	102	274	183306	1719	279	690	626	4821
.1000E-04	0	44	74	20	20	11367	322	26	104	248	468
.1000E-03	0	42	34	16	4	21828	393	79	133	361	479
.1000E-02	0	60	30	14	80	19677	482	76	123	478	476
.1000E-01	0	50	86	26	106	49418	369	146	138	636	240
.1000	0	64	24	16	88	80097	581	148	278	637	164
1.000	0	86	92	54	86	144069	498	184	379	625	24
10.00	0	34	126	36	112	168582	952	288	668	313	8
100.0	0	54	82	56	132	86456	7436	1503	1004	146	628
1000.	0	32	58	52	132	29078	3530	2404	8544	162	1400
.1000E+05	0	44	30	6	26	3132	1258	254	1676	2500	4826
.1000E+06	0	16	0	6	4	868	248	60	386	614	590
.1000E+07	0	0	0	0	0	20	0	0	4	72	0
	0	0	0	0	0	0	0	0	0	0	0
TOTAL=	3862	936	932	404	1064	797898	17788	5447	14127	7418	14124

TOTAL NUMBER OF COMPARISONS = 864000

NUMBER OF ZERO COMBINATIONS = 151488

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100 POINT SOURCES; NO DOWNWASH; URBAN DISPERSION; ISCST2 vs. "Fixed" ISCST

NUMREC = 60
NUMBER OF HOURS OF METEOROLOGY = 144

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	4496	0	0	0	0	191113	0	0	0	0
.1000E-04	0	0	0	0	0	12785	0	0	0	0
.1000E-03	0	0	0	0	0	23513	0	0	0	0
.1000E-02	0	0	0	0	0	21647	0	0	0	0
.1000E-01	0	0	0	0	0	51403	0	0	0	0
.1000	0	0	0	0	0	82198	0	0	0	0
1.000	0	0	0	0	0	146157	0	0	0	0
10.00	0	0	0	0	0	171127	0	0	0	0
100.0	0	0	0	0	0	96815	0	0	0	0
1000.	0	0	0	0	0	43878	0	0	0	0
.1000E+05	0	0	0	0	0	11262	0	0	0	0
.1000E+06	0	0	0	0	0	6994	0	0	0	0
.1000E+07	0	0	0	0	0	612	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL=	4496	0	0	0	0	859504	0	0	0	0

TOTAL NUMBER OF COMPARISONS = 864000

NUMBER OF ZERO COMBINATIONS = 150854

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100 POINT SOURCES; H-S DOWNWASH; RURAL DISPERSION; ISCST2 vs. Original ISCST

NUMREC = 54
NUMBER OF HOURS OF METEOROLOGY = 144

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	3002	280	166	24	190	147590	2243	234	102	269	4381
.1000E-04	0	26	14	0	2	6164	466	14	2	69	270
.1000E-03	0	14	26	22	16	5402	511	18	6	94	269
.1000E-02	0	38	28	14	48	22184	557	16	2	76	180
.1000E-01	0	6	42	16	80	64306	683	8	2	99	44
.1000	0	40	84	26	308	84357	644	10	0	159	6
1.000	0	28	76	100	476	128681	794	128	44	140	14
10.00	0	34	134	394	790	127305	3262	196	316	10	0
100.0	0	10	320	712	1280	95183	7968	1988	1506	106	86
1000.	0	2	442	780	452	33054	3330	2942	7956	1418	314
.1000E+05	0	0	104	50	16	3110	444	320	2776	1496	448
.1000E+06	0	0	0	0	0	22	18	6	30	24	16
.1000E+07	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
TOTAL=	3002	478	1436	2138	3658	717358	20920	5880	12742	3960	6028

TOTAL NUMBER OF COMPARISONS = 777600

NUMBER OF ZERO COMBINATIONS = 127209

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100 POINT SOURCES; H-S DOWNWASH; RURAL DISPERSION; ISCST2 vs. "Fixed" ISCST

NUMREC = 54
NUMBER OF HOURS OF METEOROLOGY = 144

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	3800	6	0	0	8	154078	0	0	0	0
.1000E-04	0	0	4	0	0	7259	0	0	0	0
.1000E-03	0	0	0	0	2	6477	0	0	0	0
.1000E-02	0	0	0	0	0	23261	0	0	0	0
.1000E-01	0	0	2	0	2	65381	0	0	0	0
.1000	0	0	2	0	2	85649	0	0	0	0
1.000	0	0	0	0	2	130441	52	0	0	0
10.00	0	0	0	0	0	132365	48	0	0	0
100.0	0	0	0	0	0	108985	6	0	0	0
1000.	0	0	0	0	2	50118	0	0	0	0
.1000E+05	0	0	0	0	0	9340	2	0	0	0
.1000E+06	0	0	0	0	0	304	2	0	0	0
.1000E+07	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL=	3800	6	8	0	18	773658	110	0	0	0

TOTAL NUMBER OF COMPARISONS = 777600

NUMBER OF ZERO COMBINATIONS = 126411

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100 POINT SOURCES; H-S DOWNWASH; URBAN DISPERSION; ISCST2 vs. Original ISCST

NUMREC = 54
NUMBER OF HOURS OF METEOROLOGY = 144

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	2219	128	38	42	186	122110	1563	0	33	359
4958										
.1000E-04	0	12	4	4	26	10159	192	0	12	264
456										
.1000E-03	0	4	44	12	22	20234	198	4	30	387
442										
.1000E-02	0	60	0	4	2	17404	324	13	66	494
305										
.1000E-01	0	12	0	12	50	46857	162	14	178	660
138										
.1000	0	0	78	18	10	77437	324	30	321	561
74										
1.000	0	64	82	0	0	139038	216	118	479	417
0										
10.00	0	0	6	98	292	167999	526	223	528	180
0										
100.0	0	6	240	330	1450	100766	7258	1536	868	6
0										
1000.	0	0	516	838	542	26750	2834	2742	6078	736
0										
.1000E+05	0	0	48	8	12	1430	212	132	1628	614
0										
.1000E+06	0	0	0	0	0	0	4	0	0	0
0										
.1000E+07	0	0	0	0	0	0	0	0	0	0
0										
	0	0	0	0	0	0	0	0	0	0
0										
TOTAL=	2219	286	1056	1366	2592	730184	13813	4812	10221	4678
6373										

TOTAL NUMBER OF COMPARISONS = 777600

NUMBER OF ZERO COMBINATIONS = 98178

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100 POINT SOURCES; H-S DOWNWASH; URBAN DISPERSION; ISCST2 vs. "Fixed" ISCST

NUMREC = 54
NUMBER OF HOURS OF METEOROLOGY = 144

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	3008	0	0	0	0	127885	0	0	0	0
.1000E-04	0	0	0	0	0	11262	0	0	0	0
.1000E-03	0	0	0	0	0	21466	0	0	0	0
.1000E-02	0	0	0	0	0	18915	0	0	0	0
.1000E-01	0	0	0	0	0	48140	0	0	0	0
.1000	0	0	0	0	0	79009	0	0	0	0
1.000	0	0	0	0	0	140435	12	0	0	0
10.00	0	0	0	0	0	169870	12	0	0	0
100.0	0	0	0	0	0	112432	0	0	0	0
1000.	0	0	0	0	0	40932	0	0	0	0
.1000E+05	0	0	0	0	0	4210	0	0	0	0
.1000E+06	0	0	0	0	0	12	0	0	0	0
.1000E+07	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL=	3008	0	0	0	0	774568	24	0	0	0

TOTAL NUMBER OF COMPARISONS = 777600

NUMBER OF ZERO COMBINATIONS = 97389

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100 POINT SOURCES; S-S DOWNWASH; RURAL DISPERSION; ISCST2 vs. Original ISCST

NUMREC = 54
NUMBER OF HOURS OF METEOROLOGY = 144

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	1218	0	0	0	0	149165	1265	744	124	58
.1000E-04	0	0	0	0	0	4206	447	56	0	38
.1000E-03	0	0	0	0	0	4092	574	70	6	46
.1000E-02	0	0	0	0	0	19946	676	44	8	32
.1000E-01	0	0	0	0	0	60717	1067	36	0	18
.1000	0	0	0	0	0	78974	1151	26	14	40
1.000	0	0	154	67	230	127990	1091	27	101	29
10.00	0	0	3060	401	1228	134599	2203	184	2403	587
100.0	0	12	2030	2337	998	96110	3964	180	6696	2220
1000.	0	0	308	332	380	46414	2198	78	1830	1928
.1000E+05	0	0	0	4	340	7322	80	12	262	726
.1000E+06	0	0	0	0	0	86	0	0	0	0
.1000E+07	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL=	1218	12	5552	3141	3176	729621	14716	1457	11444	5722

TOTAL NUMBER OF COMPARISONS = 777600

NUMBER OF ZERO COMBINATIONS = 138501

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100 POINT SOURCES; S-S DOWNWASH; RURAL DISPERSION; ISCST2 vs. "Fixed" ISCST

NUMREC = 54
NUMBER OF HOURS OF METEOROLOGY = 144

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	1384	0	0	0	0	152107	0	0	0	0
.1000E-04	0	0	0	0	0	4919	0	0	0	0
.1000E-03	0	0	0	0	0	4988	0	0	0	0
.1000E-02	0	0	0	0	0	20838	0	0	0	0
.1000E-01	0	0	0	0	0	61921	0	0	0	0
.1000	0	0	0	0	0	80236	0	0	0	0
1.000	0	0	0	0	0	129692	0	0	0	0
10.00	0	0	0	0	8	144434	0	0	0	0
100.0	0	0	0	56	20	114409	0	0	0	0
1000.	0	0	0	52	28	53572	0	0	0	0
.1000E+05	0	0	0	4	0	8826	0	0	0	0
.1000E+06	0	0	0	0	0	106	0	0	0	0
.1000E+07	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL=	1384	0	0	112	56	776048	0	0	0	0

TOTAL NUMBER OF COMPARISONS = 777600

NUMBER OF ZERO COMBINATIONS = 138335

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100 POINT SOURCES; S-S DOWNWASH; URBAN DISPERSION; ISCST2 vs. Original ISCST

NUMREC = 54
NUMBER OF HOURS OF METEOROLOGY = 144

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	553	16	0	0	0	143059	407	154	8	26
.1000E-04	0	0	0	0	0	8345	126	6	2	39
.1000E-03	0	0	0	0	0	19223	136	6	16	71
.1000E-02	0	0	0	0	0	15470	288	4	18	100
.1000E-01	0	0	8	0	0	44251	354	12	14	136
.1000	0	0	12	0	0	73521	416	0	6	138
1.000	0	0	88	76	152	135705	530	10	31	99
10.00	0	4	58	71	350	168349	399	14	68	12
100.0	0	0	30	46	169	113895	474	20	8	0
1000.	0	0	4	10	18	42998	148	4	0	0
.1000E+05	0	0	0	0	0	4806	20	0	0	0
.1000E+06	0	0	0	0	0	8	0	0	0	0
.1000E+07	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL=	553	20	200	203	689	769630	3298	230	171	621

TOTAL NUMBER OF COMPARISONS = 777600

NUMBER OF ZERO COMBINATIONS = 125921

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100 POINT SOURCES; S-S DOWNWASH; URBAN DISPERSION; ISCST2 vs. "Fixed" ISCST

NUMREC = 54
NUMBER OF HOURS OF METEOROLOGY = 144

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	766	0	0	0	0	144598	0	0	0	0
.1000E-04	0	0	0	0	0	8697	0	0	0	0
.1000E-03	0	0	0	0	0	19708	0	0	0	0
.1000E-02	0	0	0	0	0	16062	0	0	0	0
.1000E-01	0	0	0	0	0	44936	0	0	0	0
.1000	0	0	0	0	0	74141	0	0	0	0
1.000	0	0	0	0	0	136707	0	0	0	0
10.00	0	0	0	0	0	169324	0	0	0	0
100.0	0	0	0	0	0	114643	0	0	0	0
1000.	0	0	0	0	0	43180	0	0	0	0
.1000E+05	0	0	0	0	0	4830	0	0	0	0
.1000E+06	0	0	0	0	0	8	0	0	0	0
.1000E+07	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL=	766	0	0	0	0	776834	0	0	0	0

TOTAL NUMBER OF COMPARISONS = 777600

NUMBER OF ZERO COMBINATIONS = 125708

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48 VOLUME SOURCES; RURAL DISPERSION; ISCST2 vs. Original ISCST

NUMREC = 88
NUMBER OF HOURS OF METEOROLOGY = 24

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	370	0	0	0	0	43068	144	15	32	0	0
.1000E-04	0	0	0	0	0	396	42	8	24	0	0
.1000E-03	0	0	0	0	0	645	46	20	0	0	0
.1000E-02	0	0	0	0	0	974	41	41	0	0	0
.1000E-01	0	0	0	0	0	679	76	50	0	0	0
.1000	0	0	0	0	0	1067	148	4	0	0	0
1.000	0	0	0	0	0	5668	222	4	0	0	0
10.00	0	0	0	0	0	12965	471	24	0	0	0
100.0	0	0	0	0	0	22272	720	16	0	0	0
1000.	0	0	0	0	0	9884	313	0	0	0	0
.1000E+05	0	0	0	0	0	923	4	0	0	0	0
.1000E+06	0	0	0	0	0	0	0	0	0	0	0
.1000E+07	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
TOTAL=	370	0	0	0	0	98541	2227	182	56	0	0

TOTAL NUMBER OF COMPARISONS = 101376

NUMBER OF ZERO COMBINATIONS = 41424

48 VOLUME SOURCES; RURAL DISPERSION; ISCST2 vs. "Fixed" ISCST

NUMREC = 88
NUMBER OF HOURS OF METEOROLOGY = 24

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	370	0	0	0	0	43255	0	0	0	0
.1000E-04	0	0	0	0	0	474	0	0	0	0
.1000E-03	0	0	0	0	0	711	0	0	0	0
.1000E-02	0	0	0	0	0	1056	0	0	0	0
.1000E-01	0	0	0	0	0	805	0	0	0	0
.1000	0	0	0	0	0	1219	0	0	0	0
1.000	0	0	0	0	0	5894	0	0	0	0
10.00	0	0	0	0	0	13458	0	0	0	0
100.0	0	0	0	0	0	23008	0	0	0	0
1000.	0	0	0	0	0	10199	0	0	0	0
.1000E+05	0	0	0	0	0	927	0	0	0	0
.1000E+06	0	0	0	0	0	0	0	0	0	0
.1000E+07	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL=	370	0	0	0	0	101006	0	0	0	0

TOTAL NUMBER OF COMPARISONS = 101376

NUMBER OF ZERO COMBINATIONS = 41424

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48 VOLUME SOURCES; URBAN DISPERSION; ISCST2 vs. Original ISCST

NUMREC = 88
NUMBER OF HOURS OF METEOROLOGY = 24

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	192	0	0	0	0	41301	0	0	0	0
.1000E-04	0	0	0	0	0	271	0	0	0	0
.1000E-03	0	0	0	0	0	326	2	0	0	0
.1000E-02	0	0	0	0	0	365	6	0	0	0
.1000E-01	0	0	0	0	0	669	4	0	0	0
.1000	0	0	0	0	0	1133	48	0	0	0
1.000	0	0	0	0	0	9688	92	0	0	0
10.00	0	0	0	0	0	19147	158	0	0	0
100.0	0	0	0	0	0	19150	229	0	0	0
1000.	0	0	0	0	0	8075	129	0	0	0
.1000E+05	0	0	0	0	0	387	4	0	0	0
.1000E+06	0	0	0	0	0	0	0	0	0	0
.1000E+07	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL=	192	0	0	0	0	100512	672	0	0	0

TOTAL NUMBER OF COMPARISONS = 101376

NUMBER OF ZERO COMBINATIONS = 39808

48 VOLUME SOURCES; URBAN DISPERSION; ISCST2 vs. "Fixed" ISCST

NUMREC = 88
NUMBER OF HOURS OF METEOROLOGY = 24

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	192	0	0	0	0	41301	0	0	0	0
.1000E-04	0	0	0	0	0	271	0	0	0	0
.1000E-03	0	0	0	0	0	328	0	0	0	0
.1000E-02	0	0	0	0	0	371	0	0	0	0
.1000E-01	0	0	0	0	0	673	0	0	0	0
.1000	0	0	0	0	0	1181	0	0	0	0
1.000	0	0	0	0	0	9778	0	0	0	0
10.00	0	0	0	0	0	19307	0	0	0	0
100.0	0	0	0	0	0	19378	0	0	0	0
1000.	0	0	0	0	0	8205	0	0	0	0
.1000E+05	0	0	0	0	0	391	0	0	0	0
.1000E+06	0	0	0	0	0	0	0	0	0	0
.1000E+07	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL=	192	0	0	0	0	101184	0	0	0	0

TOTAL NUMBER OF COMPARISONS = 101376

NUMBER OF ZERO COMBINATIONS = 39808

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17 AREA SOURCES; RURAL DISPERSION; ISCST2 vs. Original ISCST

NUMREC = 88
NUMBER OF HOURS OF METEOROLOGY = 24

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	2766	288	0	0	0	10514	0	0	0	0
.1000E-04	325	99	0	0	0	0	0	0	0	0
.1000E-03	239	287	2	0	0	0	0	0	0	0
.1000E-02	31	235	12	0	0	0	0	0	0	0
.1000E-01	0	399	8	0	0	0	0	0	0	0
.1000	0	461	2	0	0	0	0	0	0	0
1.000	0	594	0	0	0	0	0	0	0	0
10.00	0	1498	0	0	0	0	0	0	0	0
100.0	0	5169	0	0	0	0	0	0	0	0
1000.	0	7384	0	0	0	0	0	0	0	0
.1000E+05	0	4229	0	0	0	0	0	0	0	0
.1000E+06	0	1121	0	0	0	0	0	0	0	0
.1000E+07	0	241	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL=	3361	22005	24	0	0	10514	0	0	0	0

TOTAL NUMBER OF COMPARISONS = 35904

NUMBER OF ZERO COMBINATIONS = 10514

---

17 AREA SOURCES; RURAL DISPERSION; ISCST2 vs. "Fixed" ISCST

NUMREC = 88
NUMBER OF HOURS OF METEOROLOGY = 24

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	2776	0	0	0	0	10818	0	0	0	0
.1000E-04	371	0	0	0	0	85	0	0	0	0
.1000E-03	184	0	0	0	0	300	0	0	2	0
.1000E-02	30	0	0	0	0	228	0	0	12	0
.1000E-01	0	0	0	0	0	439	1	0	8	0
.1000	0	0	0	0	0	433	4	0	2	0
1.000	0	0	0	0	0	652	0	0	0	0
10.00	0	0	0	0	0	1993	0	0	0	0
100.0	0	0	0	0	0	4829	0	0	0	0
1000.	0	0	0	0	0	7463	0	0	0	0
.1000E+05	0	0	0	0	0	4033	0	0	0	0
.1000E+06	0	0	0	0	0	1022	0	0	0	0
.1000E+07	0	0	0	0	0	219	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL=	3361	0	0	0	0	32514	5	0	24	0

TOTAL NUMBER OF COMPARISONS = 35904

NUMBER OF ZERO COMBINATIONS = 10514

---

17 AREA SOURCES; URBAN DISPERSION; ISCST2 vs. Original ISCST

NUMREC = 88
NUMBER OF HOURS OF METEOROLOGY = 24

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	1952	68	0	0	0	9188	0	0	0	0
.1000E-04	124	36	0	0	0	0	0	0	6	0
.1000E-03	49	94	0	0	0	0	0	0	4	0
.1000E-02	12	189	0	0	0	0	0	0	0	0
.1000E-01	0	509	0	0	0	0	0	0	0	0
.1000	0	749	0	0	0	0	0	0	0	0
1.000	0	938	0	0	0	0	0	0	0	0
10.00	0	3582	0	0	0	0	0	0	0	0
100.0	0	6004	0	0	0	0	0	0	0	0
1000.	0	7466	0	0	0	0	0	0	0	0
.1000E+05	0	4113	0	0	0	0	0	0	0	0
.1000E+06	0	729	0	0	0	0	0	0	0	0
.1000E+07	0	92	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL=	2137	24569	0	0	0	9188	0	0	10	0

TOTAL NUMBER OF COMPARISONS = 35904

NUMBER OF ZERO COMBINATIONS = 9188

---

17 AREA SOURCES; URBAN DISPERSION; ISCST2 vs. 'Fixed' ISCST

NUMREC = 88
NUMBER OF HOURS OF METEOROLOGY = 24

DELTA PERCENT (_=)

RANGE (_=):	-100.00	-10.00	-2.00	-1.00	-.20	.20	1.00	2.00	10.00	100.00
.1000E-05	1960	0	0	0	0	9256	0	0	0	0
.1000E-04	124	0	0	0	0	36	0	0	6	0
.1000E-03	41	0	0	0	0	100	0	0	4	0
.1000E-02	12	0	0	0	0	201	6	0	0	0
.1000E-01	0	0	0	0	0	512	20	0	0	0
.1000	0	0	0	0	0	713	8	0	0	0
1.000	0	0	0	0	0	980	0	0	0	0
10.00	0	0	0	0	0	3623	0	0	0	0
100.0	0	0	0	0	0	6301	0	0	0	0
1000.	0	0	0	0	0	7414	0	0	0	0
.1000E+05	0	0	0	0	0	3821	0	0	0	0
.1000E+06	0	0	0	0	0	681	0	0	0	0
.1000E+07	0	0	0	0	0	85	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL=	2137	0	0	0	0	33723	34	0	0	10

TOTAL NUMBER OF COMPARISONS = 35904

NUMBER OF ZERO COMBINATIONS = 9188

```
** This is a simple example problem for the ISC Long Term Model, ISCLT.
** This example makes use of the new area source algorithm, and corresponds
** to the same source and receptor inputs as used in the TESTST.INP file.
** To run the example type: ISCLT3EM TESTLT.INP outfil.nam
** The results for this test are in file TESTLT.OUT

CO STARTING
   TITLEONE  TEST RUN FOR NEW ISCLT MODEL - TEST OF NEW AREA SOURCE ALGORITHM
   MODELOPT  DFAULT  CONC  RURAL
   AVERTIME  WINTER
   TERRHGTS  ELEV
   FLAGPOLE
   POLLUTID  OTH
   RUNORNOT  RUN
   ELEVUNIT  FEET
CO FINISHED

SO STARTING

**            SRCID  SRCTYP    XS       YS       ZS
**            -----  ------   -----    -----    -----
SO LOCATION     1     AREA     800.     400.    .0000
SO LOCATION     2     AREA      40.     360.    .0000
SO LOCATION     3     AREA     480.      20.    .0000
SO LOCATION     4     AREA     420.     260.    .0000
SO LOCATION     5     AREA     420.     180.    .0000
```

```
SO LOCATION     6    AREA     420.     100.     .0000

SO LOCATION     7    AREA     260.     340.     .0000

SO LOCATION     8    AREA      40.     100.     .0000

SO LOCATION     9    AREA      40.      20.     .0000

SO LOCATION    10    AREA     300.     360.     .0000


**            SRCID    QS       HS     XINIT   YINIT

**            -----   ----     ----   -----   -----

SO SRCPARAM     1     1.0      1.0      60.    100.

SO SRCPARAM     2     1.0      1.0      20.     20.

SO SRCPARAM     3     1.0      1.0      30.    300.

SO SRCPARAM     4     1.0      1.0      40.     40.

SO SRCPARAM     5     1.0      1.0      40.     40.

SO SRCPARAM     6     1.0      1.0      40.     40.

SO SRCPARAM     7     1.0      1.0     140.    200.

SO SRCPARAM     8     1.0      1.0     220.    100.

SO SRCPARAM     9     1.0      1.0     220.     70.

SO SRCPARAM    10    -1.0      1.0      80.     40.


SO EMISUNIT     1.000 (GRAMS/(SEC-M**2))          grams/cubic-meter


SO SRCGROUP ALL

SO FINISHED
```

```
RE STARTING

RE DISCCART     20.    60.  1.0    1.0

RE DISCCART    150.    95.  1.0    1.0

RE DISCCART    360.   100.  1.0    1.0

RE DISCCART    520.   120.  1.0    1.0

RE DISCCART    490.   240.  1.0    1.0

RE DISCCART    320.   240.  1.0    1.0

RE DISCCART    150.   260.  1.0    1.0

RE DISCCART     50.   330.  1.0    1.0

RE DISCCART     70.   390.  1.0    1.0

RE DISCCART    190.   350.  1.0    1.0

RE DISCCART    310.   370.  1.0    1.0

RE DISCCART    420.   380.  1.0    1.0

RE DISCCART     70.   460.  1.0    1.0

RE DISCCART    200.   460.  1.0    1.0

RE DISCCART    330.   470.  1.0    1.0

RE DISCCART     40.   560.  1.0    1.0

RE DISCCART    480.   660.  1.0    1.0

RE DISCCART    800.   700.  1.0    1.0

RE FINISHED


ME STARTING

   INPUTFIL  TEST.STA  FREE

   ANEMHGHT  10.

   SURFDATA  99999  1990  TESTDATA
```

```
UAIRDATA  99999  1990  TESTDATA

STARDATA  SEASON


**                  - AMBIENT AIR TEMPERATURE (DEGREES KELVIN) -

**

**                    STAB    STAB    STAB    STAB    STAB    STAB

**                    CAT 1   CAT 2   CAT 3   CAT 4   CAT 5   CAT 6

**                    -----   -----   -----   -----   -----   -----


AVETEMPS  WINTER   283.0   283.0   283.0   283.0   283.0   283.0



**                        - MIXING LAYER HEIGHT (METERS) -

**                  S

**                  T    WS       WS       WS       WS       WS       WS

**            SEAS  A   CAT 1    CAT 2    CAT 3    CAT 4    CAT 5    CAT 6

**            ----  B   -----    -----    -----    -----    -----    -----


AVEMIXHT  WINTER 1 .225E+04 .225E+04 .225E+04 .225E+04 .225E+04 .225E+04

AVEMIXHT  WINTER 2 .150E+04 .150E+04 .150E+04 .150E+04 .150E+04 .150E+04

AVEMIXHT  WINTER 3 .150E+04 .150E+04 .150E+04 .150E+04 .150E+04 .150E+04

AVEMIXHT  WINTER 4 .100E+04 .100E+04 .100E+04 .100E+04 .100E+04 .100E+04

AVEMIXHT  WINTER 5 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05

AVEMIXHT  WINTER 6 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05
```

```
**            - Roughness Length (m) -

**

**            SEAS     Z0 (m)

**            ----     -----

**

**   AVEROUGH  WINTER    0.10


ME FINISHED


**TG STARTING

**TG FINISHED


OU STARTING

   RECTABLE  SRCGRP

   MAXTABLE  10 INDSRC SRCGRP

OU FINISHED

 *** Message Summary For ISC3 Model Setup ***

 --------- Summary of Total Messages --------

A Total of           0 Fatal Error Message(s)
A Total of           2 Warning Message(s)
A Total of           0 Informational Message(s)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
CO W205   12 FLAGDF: No Option Parameter Setting.  Forced by Default to ZFLAG=0.
CO W151   15 COCARD: CO ELEVUNIT card obsolescent: use RE ELEVUNIT card instead
```

```
***********************************
*** SETUP Finishes Successfully ***
***********************************
```

```
  *** ISCLT3 - VERSION 95250 ***    ***  TEST RUN FOR NEW ISCLT MODEL - TEST OF NEW
AREA SOURCE ALGORITHM    ***        09/07/95
                                    ***
                     ***        16:26:53

                                PAGE   1
  *** MODELING OPTIONS USED:  CONC   RURAL  ELEV   FLGPOL DFAULT


                                          ***     MODEL SETUP OPTIONS SUMMARY
***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.
 **Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

 **Model Uses NO plume DEPLETION.

 **Model Uses RURAL Dispersion.

 **Model Uses Regulatory DEFAULT Options:
           1. Final Plume Rise.
           2. Stack-tip Downwash.
           3. Buoyancy-induced Dispersion.
           4. Default Wind Profile Exponents.
           5. Default Vertical Potential Temperature Gradients.
           6. "Upper Bound" Values For Supersquat Buildings.
           7. No Exponential Decay for RURAL Mode

 **Model Accepts Receptors on ELEV Terrain.

 **Model Accepts FLAGPOLE Receptor Heights.

 **Model Calculates   1 STAR Average(s) for the Following Months:  0  0  0  0  0  0  0
0  0  0  0  0
                                                Seasons/Quarters:  1  0  0  0
                                                      and Annual:  0

 **Data File Includes  4 STAR Summaries for the Following Months:  0  0  0  0  0  0  0
0  0  0  0  0
                                                Seasons/Quarters:  1  1  1  1
                                                      and Annual:  0

 **This Run Includes:   10 Source(s);      1 Source Group(s); and     18 Receptor(s)

 **The Model Assumes A Pollutant Type of:  OTH

 **Model Set To Continue RUNning After the Setup Testing.

 **Output Options Selected:
```

```
          Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
          Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)

 **Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    .0000     ;    Rot.
Angle =      .0
                  Emission Units = (GRAMS/(SEC-M**2))                        ;
Emission Rate Unit Factor =    1.0000
                  Output Units   = GRAMS/CUBIC-METER

 **Input Runstream File: areatest.inp                                  ;  **Output Print
File: areatest.out
```

```
  *** ISCLT3 - VERSION 95250 ***    ***  TEST RUN FOR NEW ISCLT MODEL - TEST OF NEW
AREA SOURCE ALGORITHM    ***        09/07/95
                                    ***
                     ***        16:26:53

                                PAGE   2
  *** MODELING OPTIONS USED:  CONC   RURAL  ELEV   FLGPOL DFAULT


                                                  *** AREA SOURCE DATA ***

              NUMBER EMISSION RATE  COORD (SW CORNER)  BASE     RELEASE  X-DIM
Y-DIM    ORIENT.    INIT.  EMISSION RATE
    SOURCE     PART. (USER UNITS       X        Y      ELEV.    HEIGHT  OF AREA   OF
AREA   OF AREA     SZ     SCALAR VARY
      ID       CATS.   /METER**2)   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   (DEG.)  (METERS)      BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

   1            0    .10000E+01     800.0     400.0      .0     1.00     60.00
100.00       .00      .00
   2            0    .10000E+01      40.0     360.0      .0     1.00     20.00
20.00       .00      .00
   3            0    .10000E+01     480.0      20.0      .0     1.00     30.00
300.00       .00      .00
   4            0    .10000E+01     420.0     260.0      .0     1.00     40.00
40.00       .00      .00
   5            0    .10000E+01     420.0     180.0      .0     1.00     40.00
40.00       .00      .00
   6            0    .10000E+01     420.0     100.0      .0     1.00     40.00
40.00       .00      .00
   7            0    .10000E+01     260.0     340.0      .0     1.00    140.00
200.00       .00      .00
   8            0    .10000E+01      40.0     100.0      .0     1.00    220.00
100.00       .00      .00
   9            0    .10000E+01      40.0      20.0      .0     1.00    220.00
70.00       .00      .00
   10           0   -.10000E+01     300.0     360.0      .0     1.00     80.00
40.00       .00      .00
```

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 ,

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

```
   (     20.0,      60.0,        .3,       1.0);          (    150.0,      95.0,
.3,       1.0);
   (    360.0,     100.0,        .3,       1.0);          (    520.0,     120.0,
.3,       1.0);
   (    490.0,     240.0,        .3,       1.0);          (    320.0,     240.0,
.3,       1.0);
   (    150.0,     260.0,        .3,       1.0);          (     50.0,     330.0,
.3,       1.0);
   (     70.0,     390.0,        .3,       1.0);          (    190.0,     350.0,
.3,       1.0);
   (    310.0,     370.0,        .3,       1.0);          (    420.0,     380.0,
.3,       1.0);
   (     70.0,     460.0,        .3,       1.0);          (    200.0,     460.0,
.3,       1.0);
   (    330.0,     470.0,        .3,       1.0);          (     40.0,     560.0,
.3,       1.0);
   (    480.0,     660.0,        .3,       1.0);          (    800.0,     700.0,
.3,       1.0);
```

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***

(METERS/SEC)

1.50, 2.50, 4.30, 6.80, 9.50, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***

(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00

	C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
	D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
	E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
	F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
WINTER	283.0000	283.0000	283.0000	283.0000	283.0000	283.0000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WINTER WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	2250.0000	2250.0000	2250.0000	2250.0000	2250.0000	2250.0000
STABILITY CATEGORY B	1500.0000	1500.0000	1500.0000	1500.0000	1500.0000	1500.0000
STABILITY CATEGORY C	1500.0000	1500.0000	1500.0000	1500.0000	1500.0000	1500.0000
STABILITY CATEGORY D	1000.0000	1000.0000	1000.0000	1000.0000	1000.0000	1000.0000
STABILITY CATEGORY E	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000
STABILITY CATEGORY F	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: TEST.STA FORMAT: FREE

SURFACE STATION NO.: 99999 UPPER AIR STATION NO.: 99999

NAME: TESTDATA NAME: TESTDATA

YEAR: 1990 YEAR: 1990

WINTER: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
22.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
45.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
67.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
90.000	.00000000	.25000000	.00000000	.00000000	.00000000	.00000000
112.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
135.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
157.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
180.000	.25000000	.00000000	.00000000	.00000000	.00000000	.00000000
202.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
225.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000

.00000000

247.500	.00000000	.00000000	.00000000	.00000000	.00000000
.00000000					
270.000	.00000000	.00000000	.00000000	.00000000	.00000000
.00000000					
292.500	.00000000	.00000000	.00000000	.00000000	.00000000
.00000000					
315.000	.00000000	.00000000	.00000000	.00000000	.00000000
.00000000					
337.500	.00000000	.00000000	.00000000	.00000000	.00000000
.00000000					

WINTER: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.25000000	.00000000	.00000000	.00000000	.00000000	.00000000
22.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
45.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
67.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
90.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
112.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
135.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
157.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
180.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
202.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
225.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
247.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
270.000	.00000000	.00000000	.25000000	.00000000	.00000000	.00000000
292.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
315.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000

```
.00000000
    337.500      .00000000     .00000000     .00000000     .00000000     .00000000
.00000000
```

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: TEST.STA FORMAT: FREE

SURFACE STATION NO.: 99999 UPPER AIR STATION NO.: 99999

NAME: TESTDATA NAME: TESTDATA

YEAR: 1990 YEAR: 1990

WINTER: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
22.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
45.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
67.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
90.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
112.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
135.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
157.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
180.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
202.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
225.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000

.00000000						
247.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
270.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
292.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
315.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
337.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000

WINTER: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
22.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
45.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
67.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
90.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
112.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
135.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
157.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
180.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
202.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
225.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
247.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
270.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
292.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
315.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000

```
.00000000
    337.500      .00000000     .00000000     .00000000     .00000000     .00000000
.00000000
```

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: TEST.STA FORMAT: FREE

SURFACE STATION NO.: 99999 UPPER AIR STATION NO.: 99999

NAME: TESTDATA NAME: TESTDATA

YEAR: 1990 YEAR: 1990

WINTER: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
22.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
45.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
67.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
90.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
112.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
135.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
157.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
180.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
202.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
225.000	.00000000	.00000000	.00000000	.00000000	.00000000	

.00000000						
247.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
270.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
292.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
315.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
337.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000

WINTER: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
22.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
45.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
67.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
90.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
112.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
135.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
157.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
180.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
202.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
225.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
247.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
270.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
292.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
315.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000

```
.00000000
    337.500      .00000000     .00000000     .00000000     .00000000     .00000000
.00000000

                 SUM OF FREQUENCIES, FTOTAL =      1.00000
```

```
  *** ISCLT3 - VERSION 95250 ***     ***  TEST RUN FOR NEW ISCLT MODEL - TEST OF NEW
AREA SOURCE ALGORITHM     ***         09/07/95
                                      ***
                     ***        16:26:53

                                PAGE  10
  *** MODELING OPTIONS USED:  CONC   RURAL  ELEV   FLGPOL DFAULT


                              *** THE WINTER AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: ALL      ***
                                 INCLUDING SOURCE(S):      1       , 2       , 3
, 4       , 5       , 6       , 7       ,
          8       , 9       , 10      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF OTH      IN GRAMS/CUBIC-METER
                **

       X-COORD (M)   Y-COORD (M)         CONC                        X-COORD (M)
Y-COORD (M)         CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
             20.00         60.00        1.461732                        150.00
95.00        6.278599
            360.00        100.00        1.107130                        520.00
120.00        1.776145
            490.00        240.00        7.055643                        320.00
240.00        1.317164
            150.00        260.00        1.304899                         50.00
330.00         .920154
             70.00        390.00         .618355                        190.00
350.00         .919853
            310.00        370.00        3.915823                        420.00
380.00        1.159203
             70.00        460.00         .503892                        200.00
460.00         .930905
            330.00        470.00        8.712571                         40.00
560.00         .234258
            480.00        660.00         .148282                        800.00
700.00         .120108
```

```
 *** ISCLT3 - VERSION 95250 ***    ***  TEST RUN FOR NEW ISCLT MODEL - TEST OF NEW
AREA SOURCE ALGORITHM    ***        09/07/95
                                    ***
                     ***        16:26:53

                                PAGE  11
 *** MODELING OPTIONS USED:  CONC   RURAL  ELEV   FLGPOL DFAULT


                    *** THE MAXIMUM   10  WINTER  AVERAGE CONCENTRATION    VALUES FOR
SOURCE:  1        ***

                          ** CONC OF OTH      IN GRAMS/CUBIC-METER
 **

 RANK       CONC     AT       RECEPTOR (XR,YR) OF TYPE       RANK       CONC     AT
  RECEPTOR (XR,YR) OF TYPE
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
   1.        .106338 AT (     800.00,     700.00)  DC          6.        .005187 AT (
  190.00,     350.00)  DC
   2.        .018014 AT (     420.00,     380.00)  DC          7.        .004079 AT (
  480.00,     660.00)  DC
   3.        .012828 AT (     330.00,     470.00)  DC          8.        .003953 AT (
  490.00,     240.00)  DC
   4.        .009823 AT (     310.00,     370.00)  DC          9.        .003938 AT (
  320.00,     240.00)  DC
   5.        .006498 AT (     200.00,     460.00)  DC         10.        .003682 AT (
   70.00,     460.00)  DC

                    *** THE MAXIMUM   10  WINTER  AVERAGE CONCENTRATION    VALUES FOR
SOURCE:  2        ***

 RANK       CONC     AT       RECEPTOR (XR,YR) OF TYPE       RANK       CONC     AT
  RECEPTOR (XR,YR) OF TYPE
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
   1.        .378019 AT (      50.00,     330.00)  DC          6.        .008402 AT (
   20.00,      60.00)  DC
   2.        .074267 AT (      70.00,     390.00)  DC          7.        .004482 AT (
  310.00,     370.00)  DC
   3.        .044939 AT (      70.00,     460.00)  DC          8.        .003663 AT (
  150.00,      95.00)  DC
   4.        .013317 AT (      40.00,     560.00)  DC          9.        .002255 AT (
  420.00,     380.00)  DC
   5.        .012170 AT (     190.00,     350.00)  DC         10.        .001280 AT (
  330.00,     470.00)  DC

                    *** THE MAXIMUM   10  WINTER  AVERAGE CONCENTRATION    VALUES FOR
SOURCE:  3        ***
```

RANK CONC AT RECEPTOR (XR,YR) OF TYPE RANK CONC AT
RECEPTOR (XR,YR) OF TYPE

RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE
1.	6.790764	AT (	490.00,	240.00)	DC	6.	.039687	AT (	480.00,	660.00)	DC
2.	1.374194	AT (	520.00,	120.00)	DC	7.	.031461	AT (	150.00,	95.00)	DC
3.	.123926	AT (	360.00,	100.00)	DC	8.	.029688	AT (	150.00,	260.00)	DC
4.	.092051	AT (	420.00,	380.00)	DC	9.	.022130	AT (	310.00,	370.00)	DC
5.	.089242	AT (	320.00,	240.00)	DC	10.	.018005	AT (	190.00,	350.00)	DC

*** THE MAXIMUM 10 WINTER AVERAGE CONCENTRATION VALUES FOR SOURCE: 4 ***

RANK CONC AT RECEPTOR (XR,YR) OF TYPE RANK CONC AT
RECEPTOR (XR,YR) OF TYPE

RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE
1.	.152196	AT (	420.00,	380.00)	DC	6.	.012970	AT (	150.00,	260.00)	DC
2.	.044282	AT (	320.00,	240.00)	DC	7.	.011296	AT (	190.00,	350.00)	DC
3.	.028833	AT (	490.00,	240.00)	DC	8.	.011080	AT (	480.00,	660.00)	DC
4.	.021732	AT (	360.00,	100.00)	DC	9.	.008672	AT (	330.00,	470.00)	DC
5.	.019270	AT (	520.00,	120.00)	DC	10.	.007012	AT (	310.00,	370.00)	DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

```
  *** ISCLT3 - VERSION 95250 ***     ***  TEST RUN FOR NEW ISCLT MODEL - TEST OF NEW
AREA SOURCE ALGORITHM    ***         09/07/95
                                     ***
                     ***        16:26:53

                                 PAGE  12
  *** MODELING OPTIONS USED:  CONC   RURAL  ELEV   FLGPOL DFAULT


                    *** THE MAXIMUM   10  WINTER  AVERAGE CONCENTRATION    VALUES FOR
SOURCE:  5         ***

                          ** CONC OF OTH      IN GRAMS/CUBIC-METER
  **

 RANK       CONC     AT       RECEPTOR (XR,YR) OF TYPE       RANK       CONC     AT
  RECEPTOR (XR,YR) OF TYPE
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
   1.        .055564 AT (     420.00,     380.00)  DC          6.        .007075 AT (
  360.00,     100.00)  DC
   2.        .044280 AT (     320.00,     240.00)  DC          7.        .006960 AT (
  480.00,     660.00)  DC
   3.        .038800 AT (     490.00,     240.00)  DC          8.        .005860 AT (
  150.00,      95.00)  DC
   4.        .010134 AT (     150.00,     260.00)  DC          9.        .003783 AT (
  310.00,     370.00)  DC
   5.        .009423 AT (     330.00,     470.00)  DC         10.        .003289 AT (
  520.00,     120.00)  DC

                    *** THE MAXIMUM   10  WINTER  AVERAGE CONCENTRATION    VALUES FOR
SOURCE:  6         ***

 RANK       CONC     AT       RECEPTOR (XR,YR) OF TYPE       RANK       CONC     AT
  RECEPTOR (XR,YR) OF TYPE
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
   1.        .147215 AT (     520.00,     120.00)  DC          6.        .007564 AT (
  330.00,     470.00)  DC
   2.        .125256 AT (     360.00,     100.00)  DC          7.        .006338 AT (
  310.00,     370.00)  DC
   3.        .054108 AT (     490.00,     240.00)  DC          8.        .004861 AT (
   20.00,      60.00)  DC
   4.        .027218 AT (     420.00,     380.00)  DC          9.        .004489 AT (
  480.00,     660.00)  DC
   5.        .012740 AT (     150.00,      95.00)  DC         10.        .003246 AT (
  150.00,     260.00)  DC

                    *** THE MAXIMUM   10  WINTER  AVERAGE CONCENTRATION    VALUES FOR
SOURCE:  7         ***
```

```
 RANK         CONC      AT         RECEPTOR (XR,YR) OF TYPE        RANK        CONC      AT
  RECEPTOR (XR,YR) OF TYPE
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
   1.       8.914557 AT (      330.00,      470.00)  DC          6.          .476067 AT (
 360.00,      100.00)  DC
   2.       8.621045 AT (      310.00,      370.00)  DC          7.          .399267 AT (
 190.00,      350.00)  DC
   3.       1.220750 AT (      320.00,      240.00)  DC          8.          .231648 AT (
  70.00,      460.00)  DC
   4.       1.127268 AT (      420.00,      380.00)  DC          9.          .209623 AT (
  70.00,      390.00)  DC
   5.        .667998 AT (      200.00,      460.00)  DC         10.          .115042 AT (
  50.00,      330.00)  DC

                        *** THE MAXIMUM   10  WINTER  AVERAGE CONCENTRATION   VALUES FOR
SOURCE:  8         ***

 RANK         CONC      AT         RECEPTOR (XR,YR) OF TYPE        RANK        CONC      AT
  RECEPTOR (XR,YR) OF TYPE
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
   1.       3.515034 AT (      150.00,       95.00)  DC          6.          .247998 AT (
 360.00,      100.00)  DC
   2.        .919383 AT (      150.00,      260.00)  DC          7.          .247827 AT (
  70.00,      390.00)  DC
   3.        .404632 AT (      190.00,      350.00)  DC          8.          .192060 AT (
 200.00,      460.00)  DC
   4.        .348773 AT (       20.00,       60.00)  DC          9.          .165306 AT (
  70.00,      460.00)  DC
   5.        .304241 AT (       50.00,      330.00)  DC         10.          .119560 AT (
 520.00,      120.00)  DC

  *** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
                       BD = BOUNDARY
```

```
  *** ISCLT3 - VERSION 95250 ***     ***  TEST RUN FOR NEW ISCLT MODEL - TEST OF NEW
AREA SOURCE ALGORITHM     ***         09/07/95
                                      ***
                     ***        16:26:53

                                PAGE  13
  *** MODELING OPTIONS USED:  CONC   RURAL  ELEV   FLGPOL DFAULT


                    *** THE MAXIMUM   10  WINTER  AVERAGE CONCENTRATION    VALUES FOR
SOURCE:  9         ***

                          ** CONC OF OTH      IN GRAMS/CUBIC-METER
  **

 RANK       CONC     AT       RECEPTOR (XR,YR) OF TYPE       RANK       CONC     AT
  RECEPTOR (XR,YR) OF TYPE
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
   1.       2.644321 AT (     150.00,      95.00)  DC          6.        .119259 AT (
   50.00,     330.00)  DC
   2.       1.076195 AT (      20.00,      60.00)  DC          7.        .100372 AT (
   70.00,     390.00)  DC
   3.        .286411 AT (     150.00,     260.00)  DC          8.        .078936 AT (
  200.00,     460.00)  DC
   4.        .185585 AT (     360.00,     100.00)  DC          9.        .070402 AT (
   70.00,     460.00)  DC
   5.        .150859 AT (     190.00,     350.00)  DC         10.        .067230 AT (
  520.00,     120.00)  DC

                    *** THE MAXIMUM   10  WINTER  AVERAGE CONCENTRATION    VALUES FOR
SOURCE:  10        ***

 RANK       CONC     AT       RECEPTOR (XR,YR) OF TYPE       RANK       CONC     AT
  RECEPTOR (XR,YR) OF TYPE
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
   1.        .000000 AT (        .00,        .00)              6.        .000000 AT (
     .00,        .00)
   2.        .000000 AT (        .00,        .00)              7.        .000000 AT (
     .00,        .00)
   3.        .000000 AT (        .00,        .00)              8.        .000000 AT (
     .00,        .00)
   4.        .000000 AT (        .00,        .00)              9.        .000000 AT (
     .00,        .00)
   5.        .000000 AT (        .00,        .00)             10.        .000000 AT (
     .00,        .00)

  *** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
```

```
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY
```

```
  *** ISCLT3 - VERSION 95250 ***     ***  TEST RUN FOR NEW ISCLT MODEL - TEST OF NEW
AREA SOURCE ALGORITHM    ***         09/07/95
                                     ***
                     ***        16:26:53

                                 PAGE  14
  *** MODELING OPTIONS USED:  CONC   RURAL  ELEV   FLGPOL DFAULT


                     *** THE MAXIMUM   10  WINTER  AVERAGE CONCENTRATION    VALUES FOR
GROUP:  ALL       ***
                         INCLUDING SOURCE(S):      1       , 2       , 3       , 4
, 5       , 6       , 7       ,
       8       , 9       , 10      ,

                          ** CONC OF OTH      IN GRAMS/CUBIC-METER
  **

 RANK       CONC     AT       RECEPTOR (XR,YR) OF TYPE       RANK       CONC     AT
  RECEPTOR (XR,YR) OF TYPE
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
   1.       8.712571 AT (     330.00,     470.00)  DC          6.       1.461732 AT (
   20.00,      60.00)  DC
   2.       7.055643 AT (     490.00,     240.00)  DC          7.       1.317164 AT (
  320.00,     240.00)  DC
   3.       6.278599 AT (     150.00,      95.00)  DC          8.       1.304899 AT (
  150.00,     260.00)  DC
   4.       3.915823 AT (     310.00,     370.00)  DC          9.       1.159203 AT (
  420.00,     380.00)  DC
   5.       1.776145 AT (     520.00,     120.00)  DC         10.       1.107130 AT (
  360.00,     100.00)  DC

  *** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
                       BD = BOUNDARY
```

```
 *** ISCLT3 - VERSION 95250 ***    ***  TEST RUN FOR NEW ISCLT MODEL - TEST OF NEW
AREA SOURCE ALGORITHM    ***        09/07/95
                                    ***
                     ***        16:26:53

                                PAGE  15
 *** MODELING OPTIONS USED:  CONC   RURAL  ELEV   FLGPOL DFAULT


*** Message Summary : ISCLT3 Model Execution ***

 --------- Summary of Total Messages --------

A Total of           0 Fatal Error Message(s)
A Total of           2 Warning Message(s)
A Total of           0 Informational Message(s)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
CO W205   12 FLAGDF: No Option Parameter Setting.  Forced by Default to ZFLAG=0.
CO W151   15 COCARD: CO ELEVUNIT card obsolescent: use RE ELEVUNIT card instead

   ************************************
   *** ISCLT3 Finishes Successfully ***
   ************************************
```

```
CO STARTING

   TITLEONE  Test case for long-term deposition model DEPLT

   TITLETWO  Model deposition for an urban site with no plume depletion

   MODELOPT  DFAULT  DEPOS  RURAL

   AVERTIME  WINTER

   POLLUTID  TSP

   RUNORNOT  RUN

   ERRORFIL  ERRORS.OUT

CO FINISHED


SO STARTING


   LOCATION  STACK1  POINT  0.0    0.0    0.0

** Point Source       QS    HS    TS    VS    DS

** Parameters:       ----  ----  ----  ----  ---

   SRCPARAM  STACK1  1.00  35.0  432.  11.7  2.4


   BUILDHGT  STACK1  16*34.

   BUILDWID  STACK1  36.45 34.00 25.50 15.00

             STACK1  25.50 34.00 36.45 33.33

             STACK1  36.45 34.00 25.50 15.00

             STACK1  25.50 34.00 36.45 33.33


   PARTDIAM  STACK1  10.

   MASSFRAX  STACK1  1.

   PARTDENS  STACK1  1.
```

```
SO SRCGROUP ALL

SO FINISHED



RE STARTING

RE GRIDPOLR POL ORIG    0.0     0.0

RE GRIDPOLR POL STA

RE GRIDPOLR POL DIST   300.  20000.

RE GRIDPOLR POL GDIR   36    10.0   10.0

RE GRIDPOLR POL END

RE FINISHED



ME STARTING

   INPUTFIL  BOSTON.JFD  FREE

   ANEMHGHT  10.

   SURFDATA  14739  1990  BOSTON

   UAIRDATA  14764  1990  PORTLAND

   STARDATA  WINTER


**                  - AMBIENT AIR TEMPERATURE (DEGREES KELVIN) -

**

**                     STAB    STAB    STAB    STAB    STAB    STAB

**                     CAT 1   CAT 2   CAT 3   CAT 4   CAT 5   CAT 6
```

```
**                    -----   -----   -----   -----   -----   -----

   AVETEMPS  WINTER  250.00    282.77  277.51  275.99  273.72  273.40


**                         - MIXING LAYER HEIGHT (METERS) -
**                  S
**                  T    WS      WS      WS      WS      WS      WS
**            SEAS  A   CAT 1   CAT 2   CAT 3   CAT 4   CAT 5   CAT 6
**            ----  B   -----   -----   -----   -----   -----   -----

   AVEMIXHT  WINTER 1    0.      0.       0.       0.       0.       0.
   AVEMIXHT  WINTER 2    0.    502.     619.       0.       0.       0.
   AVEMIXHT  WINTER 3  370.    462.     891.    1795.       0.       0.
   AVEMIXHT  WINTER 4  385.    375.     601.     846.     802.     755.
   AVEMIXHT  WINTER 5  400.    402.     526.     490.       0.       0.
   AVEMIXHT  WINTER 6  386.    294.      58.       0.       0.       0.


**            - Roughness Length (m) -
**
**            SEAS     Z0 (m)
**            ----     -----

   AVEROUGH  WINTER    0.10
```

```
ME FINISHED


OU STARTING

   RECTABLE  SRCGRP

OU FINISHED

***********************************
*** SETUP Finishes Successfully ***
***********************************
```

```
  *** ISCLT3 - VERSION 95250 ***     ***  Test case for long-term deposition model
DEPLT                        ***        09/07/95
                                        ***  Model deposition for an urban site with no
plume depletion            ***         16:31:32

                                 PAGE   1
  *** MODELING OPTIONS USED:  DEPOS  RURAL  FLAT          DFAULT


                                            ***     MODEL SETUP OPTIONS SUMMARY
***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Total DEPOSition Values.
 **Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

 **Model Uses NO plume DEPLETION.

 **Model Uses RURAL Dispersion.

 **Model Uses Regulatory DEFAULT Options:
            1. Final Plume Rise.
            2. Stack-tip Downwash.
            3. Buoyancy-induced Dispersion.
            4. Default Wind Profile Exponents.
            5. Default Vertical Potential Temperature Gradients.
            6. "Upper Bound" Values For Supersquat Buildings.
            7. No Exponential Decay for RURAL Mode

 **Model Assumes Receptors on FLAT Terrain.

 **Model Assumes No FLAGPOLE Receptor Heights.

 **Model Calculates   1 STAR Average(s) for the Following Months:  0  0  0  0  0  0  0
0  0  0  0  0
                                                Seasons/Quarters:  1  0  0  0
                                                      and Annual:  0

 **Data File Includes  1 STAR Summaries for the Following Months:  0  0  0  0  0  0  0
0  0  0  0  0
                                                Seasons/Quarters:  1  0  0  0
                                                      and Annual:  0

 **This Run Includes:    1 Source(s);      1 Source Group(s); and     72 Receptor(s)

 **The Model Assumes A Pollutant Type of:  TSP

 **Model Set To Continue RUNning After the Setup Testing.

 **Output Options Selected:
```

```
          Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)

 **Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    .0000     ;    Rot.
Angle =      .0
                  Emission Units = GRAMS/SEC                                  ;
Emission Rate Unit Factor =    3600.0
                  Output Units   = GRAMS/M**2

 **Input Runstream File: deptest.inp                                  ;  **Output Print
File: deptest.out
 **Error Message File: ERRORS.OUT
```

```
  *** ISCLT3 - VERSION 95250 ***    ***  Test case for long-term deposition model
DEPLT                        ***        09/07/95
                                       ***  Model deposition for an urban site with no
plume depletion            ***         16:31:32

                                 PAGE   2
  *** MODELING OPTIONS USED:  DEPOS  RURAL  FLAT          DFAULT


                                                   *** POINT SOURCE DATA ***


              NUMBER EMISSION RATE                     BASE     STACK   STACK    STACK
  STACK    BUILDING EMISSION RATE
    SOURCE     PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT  TEMP.   EXIT
VEL. DIAMETER   EXISTS   SCALAR VARY
      ID       CATS.                (METERS) (METERS) (METERS) (METERS) (DEG.K)
(M/SEC)  (METERS)                BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

   STACK1        1    .10000E+01        .0        .0      .0    35.00   432.00
11.70     2.40      YES
```

```
 *** ISCLT3 - VERSION 95250 ***     *** Test case for long-term deposition model
DEPLT                        ***       09/07/95
                                       *** Model deposition for an urban site with no
plume depletion          ***           16:31:32

                                 PAGE   3
 *** MODELING OPTIONS USED:  DEPOS  RURAL  FLAT          DFAULT



                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 GROUP ID                                                SOURCE IDs


  ALL       STACK1  ,
```

*** MODELING OPTIONS USED: DEPOS RURAL FLAT DFAULT

*** SOURCE PARTICULATE DATA ***

*** SOURCE ID = STACK1 ; SOURCE TYPE = POINT ***

MASS FRACTION =
1.00000,

PARTICLE DIAMETER(MICRONS) =
10.00000,

PARTICLE DENSITY (G/CM**3) =
1.00000,

*** MODELING OPTIONS USED: DEPOS RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STACK1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	34.0,	36.5,	0	2	34.0,	34.0,	0	3	34.0,	25.5,	0
4	34.0,	15.0,	0								
5	34.0,	25.5,	0	6	34.0,	34.0,	0	7	34.0,	36.5,	0
8	34.0,	33.3,	0								
9	34.0,	36.5,	0	10	34.0,	34.0,	0	11	34.0,	25.5,	0
12	34.0,	15.0,	0								
13	34.0,	25.5,	0	14	34.0,	34.0,	0	15	34.0,	36.5,	0
16	34.0,	33.3,	0								

*** MODELING OPTIONS USED: DEPOS RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR
***

*** ORIGIN FOR POLAR NETWORK ***
X-ORIG = .00 ; Y-ORIG = .00 (METERS)

*** DISTANCE RANGES OF NETWORK ***
(METERS)

300.0, 20000.0,

*** DIRECTION RADIALS OF NETWORK ***
(DEGREES)

10.0, 20.0, 30.0, 40.0, 50.0, 60.0, 70.0,
80.0, 90.0, 100.0,
110.0, 120.0, 130.0, 140.0, 150.0, 160.0, 170.0,
180.0, 190.0, 200.0,
210.0, 220.0, 230.0, 240.0, 250.0, 260.0, 270.0,
280.0, 290.0, 300.0,
310.0, 320.0, 330.0, 340.0, 350.0, 360.0,

*** MODELING OPTIONS USED: DEPOS RURAL FLAT DFAULT

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY
***

(METERS/SEC)

1.50, 2.50, 4.30, 6.80, 9.50,
12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS
***

(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00

	C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
	D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
	E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
	F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
WINTER	250.0000	282.7700	277.5100	275.9900	273.7200	273.4000

*** MODELING OPTIONS USED: DEPOS RURAL FLAT DFAULT

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WINTER WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	.0000	.0000	.0000	.0000	.0000	.0000
STABILITY CATEGORY B	.0000	502.0000	619.0000	.0000	.0000	.0000
STABILITY CATEGORY C	370.0000	462.0000	891.0000	1795.0000	.0000	.0000
STABILITY CATEGORY D	385.0000	375.0000	601.0000	846.0000	802.0000	755.0000
STABILITY CATEGORY E	400.0000	402.0000	526.0000	490.0000	.0000	.0000
STABILITY CATEGORY F	386.0000	294.0000	58.0000	.0000	.0000	.0000

```
  *** ISCLT3 - VERSION 95250 ***    *** Test case for long-term deposition model
DEPLT                        ***       09/07/95
                                      *** Model deposition for an urban site with no
plume depletion            ***        16:31:32

                                 PAGE   9
  *** MODELING OPTIONS USED:  DEPOS  RURAL  FLAT          DFAULT


                                      *** AVERAGE SURFACE ROUGHNESS LENGTH (METERS) ***

     WINTER                        .1000
```

*** MODELING OPTIONS USED: DEPOS RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: BOSTON.JFD FORMAT: FREE

SURFACE STATION NO.: 14739 UPPER AIR STATION NO.: 14764

NAME: BOSTON NAME: PORTLAND

YEAR: 1990 YEAR: 1990

WINTER: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
22.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
45.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
67.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
90.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
112.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
135.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
157.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
180.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
202.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
225.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000

.00000000
247.500 .00000000 .00000000 .00000000 .00000000 .00000000
.00000000
270.000 .00000000 .00000000 .00000000 .00000000 .00000000
.00000000
292.500 .00000000 .00000000 .00000000 .00000000 .00000000
.00000000
315.000 .00000000 .00000000 .00000000 .00000000 .00000000
.00000000
337.500 .00000000 .00000000 .00000000 .00000000 .00000000
.00000000

WINTER: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
22.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
45.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
67.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
90.000	.00000000	.00138900	.00000000	.00000000	.00000000	.00000000
112.500	.00000000	.00000000	.00092600	.00000000	.00000000	.00000000
135.000	.00000000	.00092600	.00046300	.00000000	.00000000	.00000000
157.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
180.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
202.500	.00000000	.00046300	.00000000	.00000000	.00000000	.00000000
225.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
247.500	.00000000	.00092600	.00000000	.00000000	.00000000	.00000000
270.000	.00000000	.00000000	.00092600	.00000000	.00000000	.00000000
292.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
315.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000

```
.00000000
    337.500      .00000000     .00000000     .00000000     .00000000     .00000000
.00000000
```

*** MODELING OPTIONS USED: DEPOS RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: BOSTON.JFD FORMAT: FREE

SURFACE STATION NO.: 14739 UPPER AIR STATION NO.: 14764

NAME: BOSTON NAME: PORTLAND

YEAR: 1990 YEAR: 1990

WINTER: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00000000	.00046300	.00092600	.00000000	.00000000	.00000000
22.500	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
45.000	.00000000	.00046300	.00000000	.00000000	.00000000	.00000000
67.500	.00046300	.00046300	.00046300	.00000000	.00000000	.00000000
90.000	.00000000	.00046300	.00463000	.00000000	.00000000	.00000000
112.500	.00000000	.00000000	.00185200	.00000000	.00000000	.00000000
135.000	.00000000	.00092600	.00416700	.00000000	.00000000	.00000000
157.500	.00000000	.00092600	.00092600	.00000000	.00000000	.00000000
180.000	.00000000	.00092600	.00231500	.00046300	.00000000	.00000000
202.500	.00000000	.00000000	.00046300	.00000000	.00000000	.00000000
225.000	.00046300	.00000000	.00324100	.00000000	.00000000	

.00000000						
247.500	.00000000	.00092600	.00370400	.00000000	.00000000	
.00000000						
270.000	.00000000	.00092600	.00416700	.00000000	.00000000	
.00000000						
292.500	.00000000	.00000000	.00231500	.00046300	.00000000	
.00000000						
315.000	.00000000	.00000000	.00416700	.00000000	.00000000	
.00000000						
337.500	.00000000	.00000000	.00138900	.00092600	.00000000	
.00000000						

WINTER: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00156300	.00370400	.01481500	.03101900	.00648200	.00000000
22.500	.00006400	.00185200	.00509300	.00555600	.00231500	.00046300
45.000	.00009500	.00277800	.00463000	.00694500	.00324100	.00324100
67.500	.00009500	.00277800	.00740800	.01203800	.00509300	.00092600
90.000	.00201000	.00277800	.01018600	.02037100	.00694500	.00092600
112.500	.00059000	.00324100	.00509300	.01203800	.00370400	.00000000
135.000	.00007900	.00231500	.00416700	.00648200	.00046300	.00000000
157.500	.00015800	.00463000	.00787100	.00555600	.00000000	.00000000
180.000	.00022100	.00648200	.01805600	.01203800	.00185200	.00000000
202.500	.00003200	.00092600	.00926000	.03703800	.01481500	.00138900
225.000	.00003200	.00092600	.01435200	.04907500	.03426000	.00833400
247.500	.00004800	.00138900	.01620400	.04953800	.01435200	.00231500
270.000	.00000000	.00000000	.00833400	.05046300	.01666700	.00231500
292.500	.00001600	.00046300	.00972300	.06759300	.02824100	.00926000
315.000	.00049500	.00046300	.00972300	.03472300	.01527800	

.00555600
337.500 .00099000 .00092600 .00694500 .02963000 .00694500
.00277800

*** MODELING OPTIONS USED: DEPOS RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: BOSTON.JFD FORMAT: FREE

SURFACE STATION NO.: 14739 UPPER AIR STATION NO.:
14764
NAME: BOSTON NAME:
PORTLAND
YEAR: 1990 YEAR:
1990

WINTER: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00046300	.00138900	.00601900	.00000000	.00000000	.00000000
22.500	.00000000	.00185200	.00046300	.00000000	.00000000	.00000000
45.000	.00000000	.00138900	.00092600	.00000000	.00000000	.00000000
67.500	.00000000	.00092600	.00000000	.00000000	.00000000	.00000000
90.000	.00000000	.00231500	.00000000	.00000000	.00000000	.00000000
112.500	.00046300	.00138900	.00046300	.00000000	.00000000	.00000000
135.000	.00000000	.00138900	.00185200	.00000000	.00000000	.00000000
157.500	.00046300	.00000000	.00231500	.00046300	.00000000	.00000000
180.000	.00000000	.00231500	.00879700	.00000000	.00000000	.00000000
202.500	.00000000	.00138900	.00277800	.00000000	.00000000	.00000000
225.000	.00000000	.00138900	.00787100	.00092600	.00000000	

247.500	.00000000	.00092600	.00879700	.00000000	.00000000	.00000000
270.000	.00000000	.00231500	.00740800	.00000000	.00000000	.00000000
292.500	.00000000	.00092600	.01574100	.00046300	.00000000	.00000000
315.000	.00000000	.00000000	.01111200	.00000000	.00000000	.00000000
337.500	.00000000	.00000000	.00740800	.00000000	.00000000	.00000000

WINTER: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00101900	.00046300	.00000000	.00000000	.00000000	.00000000
22.500	.00009300	.00138900	.00000000	.00000000	.00000000	.00000000
45.000	.00006200	.00092600	.00000000	.00000000	.00000000	.00000000
67.500	.00101900	.00046300	.00000000	.00000000	.00000000	.00000000
90.000	.00000000	.00000000	.00000000	.00000000	.00000000	.00000000
112.500	.00098800	.00000000	.00000000	.00000000	.00000000	.00000000
135.000	.00055600	.00092600	.00000000	.00000000	.00000000	.00000000
157.500	.00049400	.00000000	.00000000	.00000000	.00000000	.00000000
180.000	.00018600	.00277800	.00000000	.00000000	.00000000	.00000000
202.500	.00006200	.00092600	.00000000	.00000000	.00000000	.00000000
225.000	.00015500	.00231500	.00046300	.00000000	.00000000	.00000000
247.500	.00015500	.00231500	.00000000	.00000000	.00000000	.00000000
270.000	.00009300	.00138900	.00000000	.00000000	.00000000	.00000000
292.500	.00006200	.00092600	.00000000	.00000000	.00000000	.00000000
315.000	.00055600	.00092600	.00000000	.00000000	.00000000	.00000000

```
.00000000
    337.500      .00006200     .00092600     .00000000     .00000000     .00000000
.00000000

                 SUM OF FREQUENCIES, FTOTAL =      1.00006
```

```
  *** ISCLT3 - VERSION 95250 ***     ***  Test case for long-term deposition model
DEPLT                        ***        09/07/95
                                        ***  Model deposition for an urban site with no
plume depletion            ***         16:31:32

                                PAGE  13
  *** MODELING OPTIONS USED:  DEPOS  RURAL  FLAT          DFAULT


                              *** THE WINTER   TOTAL DEPOSITION      VALUES FOR SOURCE
GROUP: ALL       ***
                                  INCLUDING SOURCE(S):      STACK1   ,

                                   *** NETWORK ID: POL      ;  NETWORK TYPE: GRIDPOLR
***

                                       ** DEPO OF TSP      IN GRAMS/M**2
                **

   DIRECTION ¶                                                DISTANCE (METERS)
   (DEGREES) ¶        300.00     20000.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - - - -

       10.00 ¶       .228236      .001296
       20.00 ¶       .322830      .001672
       30.00 ¶       .392019      .002252
       40.00 ¶       .450586      .002861
       50.00 ¶       .383487      .002988
       60.00 ¶       .191753      .002627
       70.00 ¶       .078565      .002335
       80.00 ¶       .205135      .002347
       90.00 ¶       .331275      .002326
      100.00 ¶       .496848      .002884
      110.00 ¶       .660746      .003395
      120.00 ¶       .597187      .003032
      130.00 ¶       .457595      .002357
      140.00 ¶       .360605      .001873
      150.00 ¶       .306703      .001609
      160.00 ¶       .265054      .001405
      170.00 ¶       .261846      .001442
      180.00 ¶       .258021      .001458
      190.00 ¶       .170774      .000978
      200.00 ¶       .083149      .000487
      210.00 ¶       .065123      .000415
      220.00 ¶       .070123      .000482
      230.00 ¶       .059794      .000552
      240.00 ¶       .034442      .000622
      250.00 ¶       .028965      .000716
      260.00 ¶       .083070      .000892
      270.00 ¶       .136956      .001056
```

280.00 ¶	.125380	.000863
290.00 ¶	.113265	.000659
300.00 ¶	.093438	.000528
310.00 ¶	.071074	.000421
320.00 ¶	.057906	.000367
330.00 ¶	.053929	.000371
340.00 ¶	.060047	.000432
350.00 ¶	.096707	.000668
360.00 ¶	.132976	.000897

```
  *** ISCLT3 - VERSION 95250 ***     ***  Test case for long-term deposition model
DEPLT                        ***        09/07/95
                                        ***  Model deposition for an urban site with no
plume depletion           ***           16:31:32

                                 PAGE  14
  *** MODELING OPTIONS USED:  DEPOS  RURAL  FLAT          DFAULT


 *** Message Summary : ISCLT3 Model Execution ***

  --------- Summary of Total Messages --------

 A Total of           0 Fatal Error Message(s)
 A Total of           0 Warning Message(s)
 A Total of           0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
                ***  NONE  ***


    ********   WARNING MESSAGES   ********
                ***  NONE  ***


    ************************************
    *** ISCLT3 Finishes Successfully ***
    ************************************
```