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**CHARLESTON, SOUTH CAROLINA
AIR QUALITY MAINTENANCE
PLANNING AND ANALYSIS**

JUNE 1977

FINAL REPORT



**U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION IV**

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CHARLESTON, SOUTH CAROLINA
AIR QUALITY MAINTENANCE PLANNING
AND ANALYSIS
BASELINE AND PROJECTION YEARS ANALYSIS

BOA CONTRACT 68-02-1380 TO NO. 12

FINAL REPORT

Submitted to
U. S. Environmental Protection Agency
Region IV
and
South Carolina Department of Health
and Environmental Control
Bureau of Air Quality

Submitted by
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June 1977

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CHAPTER I

INTRODUCTION

Engineering-Science, under contract to the Environmental Protection Agency, Region IV, (EPA) is assisting the South Carolina Department of Health and Environmental Control in the analysis of current and projected air quality. Two air quality maintenance areas (AQMA) are involved, both identified for total suspended particulate (TSP) matter only. This report addresses the Charleston AQMA. A companion report is available for the Greenville AQMA.

Air quality maintenance planning and analysis is composed of two parts:

- o The analysis phase in which it is determined whether or not air quality standards have been attained and will be maintained throughout an appropriate planning period. By the use of atmospheric dispersion models with current and projected air pollutant emission inventories and representative meteorological data, estimates of the resulting air quality can be made.
- o A planning phase in which, if indicated by the analysis, a plan is developed involving various control strategies to reduce emissions by a sufficient amount to attain and maintain standards. If a revision of the State Implementation Plan is required, the procedures outlined in 40 CFR 51 Subpart D must be followed.

This report documents the results of the dispersion modeling for the Charleston AQMA analysis phase for the baseline year 1974 and the projection years 1975, 1980, and 1985. If it is determined by the EPA Administrator, after review of this and other reports of the analysis, that a maintenance plan is required, Engineering-Science will assist the State, as requested, in developing such a plan under this same contract.

Chapter II of this report describes the grid system and summarizes the data sources which were utilized in the dispersion model. Chapter III is the analysis of the 1974 baseline year air quality including the model calibration

results. Chapter IV summarizes the dispersion model projected air quality for 1975, 1980, and 1985. Chapter V contains a discussion of the results projected air quality of the analysis and includes the conclusions and recommendations reached by the authors of the report. These conclusions and recommendations should not be construed as representing those of the Department of Health and Environmental Control.

CHAPTER II

DATA SOURCES AND GRID SYSTEM

The Air Quality Display Model (AQDM) modified to use the Briggs plume rise equation is an approved climatological model for determining the relationship between sources of air pollution and the resulting air quality. Based on the Gaussian dispersion of airborne material, AQDM calculates the contribution of all point and area sources at each receptor in a field of receptors for each of 576 meteorological conditions. These are then summed in accordance with the frequency of occurrence of each condition. An important advantage of AQDM over other available climatological models is its inclusion of a source contribution file. This computer code allows the operator to determine the source of the contaminant for selected receptors. A disadvantage of AQDM is its inability to estimate concentrations for any period other than annual average concentrations.

Data inputs to AQDM include the emission inventories, meteorological data, and for calibration purposes, air quality data. These are discussed below.

POINT SOURCE EMISSION INVENTORY

The 1974 inventory was provided by the Department of Health and Environmental Control in the form of magnetic tape and updated National Emission Data System (NEDS) forms. The NEDS forms were verified, checked and corrected before entry into the Emission Inventory System (EIS) maintained by Engineering-Science for the Department. After all corrected entries were made a printout of the EIS master file was forwarded to the Department for final approval.

Projected point source inventories were provided by the Department in the form of AQDM load sheets listing source strength, stack parameters and location.

AREA SOURCE EMISSION INVENTORY

Both baseline year and projected area source emission inventories for 27 source categories allocated to subcounty areas were provided by Engineering-Science under another EPA contract in the form of AQDM load sheets. The data

and methodologies for compiling the inventories were reviewed and approved by the Department. A report of the area source emission inventory project is available.

AIR QUALITY DATA

For the baseline year model run air quality data are required in order that the regression equation relating observed and calculated air quality may be determined for use in the planning years analyses. These data, annual arithmetic mean concentrations ($\mu\text{g}/\text{m}^3$) for seven monitoring stations, were provided by the Department. The locations of the stations are shown in Figure II-1. The locations are shown on the Universal Transverse Mercator (UTM) geocoding system employed in AQDM.

Four of the seven stations commenced operation at the present location and height during calendar year 1974:

- o The Meeting Street - Pittsburgh Avenue station was relocated from ground level to rooftop on or about July 1, 1974.
- o The State Ports Authority station was relocated from ground level to rooftop on July 28, 1974.
- o The Mount Pleasant station was relocated approximately two kilometers to the southwest on October 8, 1974.
- o The Jenkins Street station began operations on December 1, 1974.

The observed air quality data at the seven monitoring stations for 1974, 1975 and for fiscal year 1975 (July 1974 through June 1975) are summarized in Table II-1. It will be shown in Chapter III that the fiscal year period is the preferred air quality data set for model calibration.

FIGURE II-1

LOCATIONS OF MONITORING STATIONS

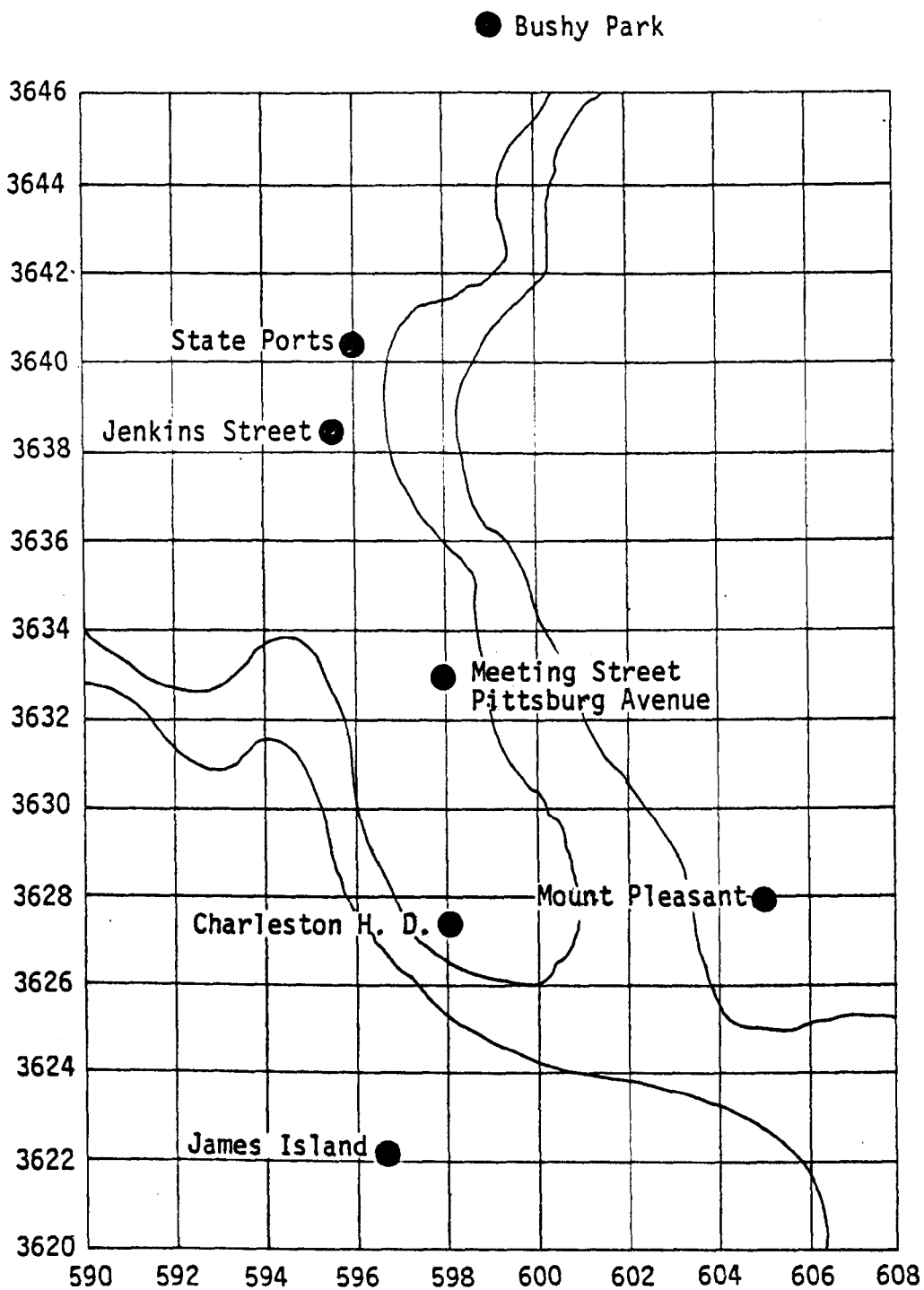


TABLE II-1
OBSERVED AIR QUALITY DATA ($\mu\text{g}/\text{m}^3$)

Station Name	CY 74	FY 75	CY 75
Bushy Park	41	48	49
Charleston Health Department	47	53	57
Meeting @ Pittsburgh Avenue	115	106	90
State Ports Authority	111	90	84
James Island	52	48	54
Mount Pleasant	52	37	34
Jenkins Street	45	57	61

Two of these stations, those at the State Ports Authority and at Meeting Street and Pittsburgh Avenue, are probably not representative of the general urban air quality in the vicinity of the stations. The station at Meeting Street and Pittsburgh Avenue is very close to an unpaved road, the railroad tracks, and a busy thoroughfare. The Airco Alloys plant is very near the station. The Airco plant has a number of large ore storage piles. There is probably a significant, albeit undetermined, amount of fugitive dust emitted from the Airco plant because of general industrial activity. The station at the State Ports Authority is in the middle of a paved parking lot. Significant emissions of fugitive dust may result from the industrial activity at the State Ports Authority. The Westvaco plant, which is very near the sampling station, may also have significant emissions of fugitive dust.

METEOROLOGICAL DATA

The required three-way joint frequency distributions of wind direction, wind speed and stability class (STAR program) were obtained from the National Climatic Center by EPA. Data for the Charleston Municipal Airport for the following periods were received:

- o Calendar year 1974
- o Fiscal year 1975
- o Five year period 1960 through 1964

AQDM AREA SOURCE GRID SYSTEM

The AQDM considers each area source as a virtual point source located upwind at a sufficient distance such that the crosswind width of the point source plume at the downwind edge of the grid is equivalent to the crosswind dimension of the grid. Inputs for area sources include the source strength and height and the area and centroid location of the grid area. It is not necessary that the areas be square. However, internally, the computer program considers each area to be square.

The grid system used in this application was based on census tracts. This is preferable to introducing an artificial square grid system since census tracts are generally the smallest area for which data are available.

The grid used for the Charleston AQDM analysis is shown in Figures II-2 and II-3.

FIGURE II-2

CENSUS TRACTS IN THE CHARLESTON AQMA

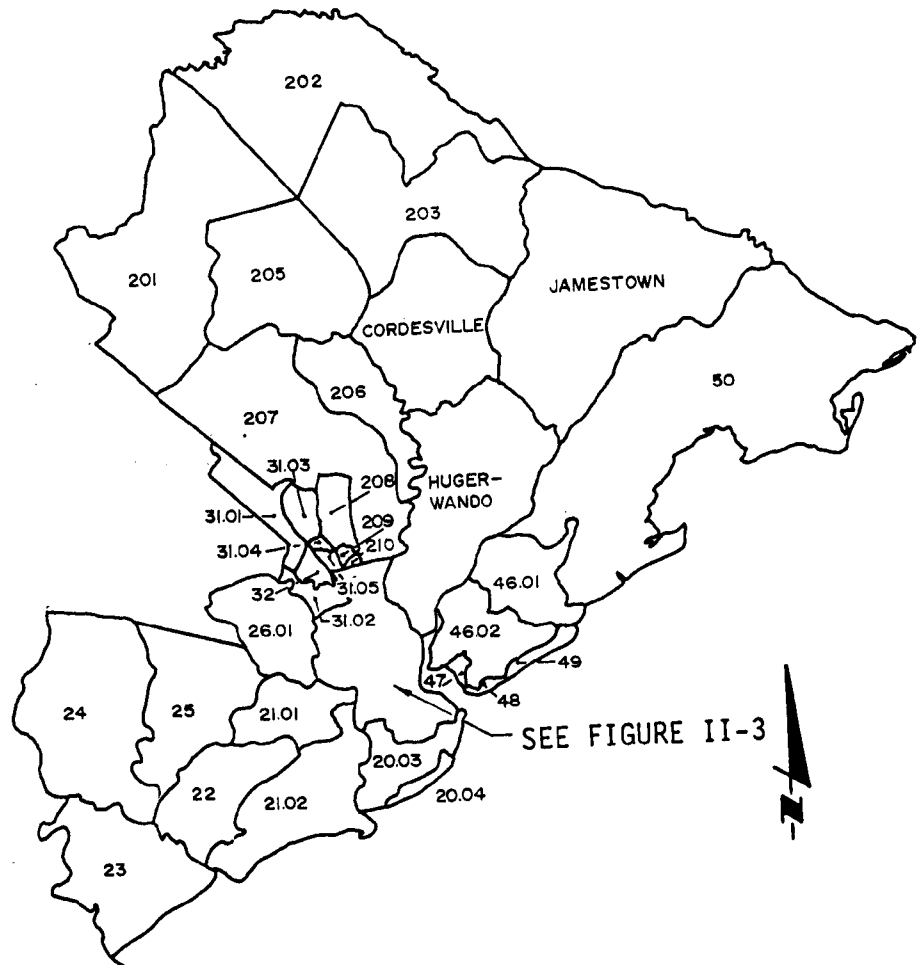
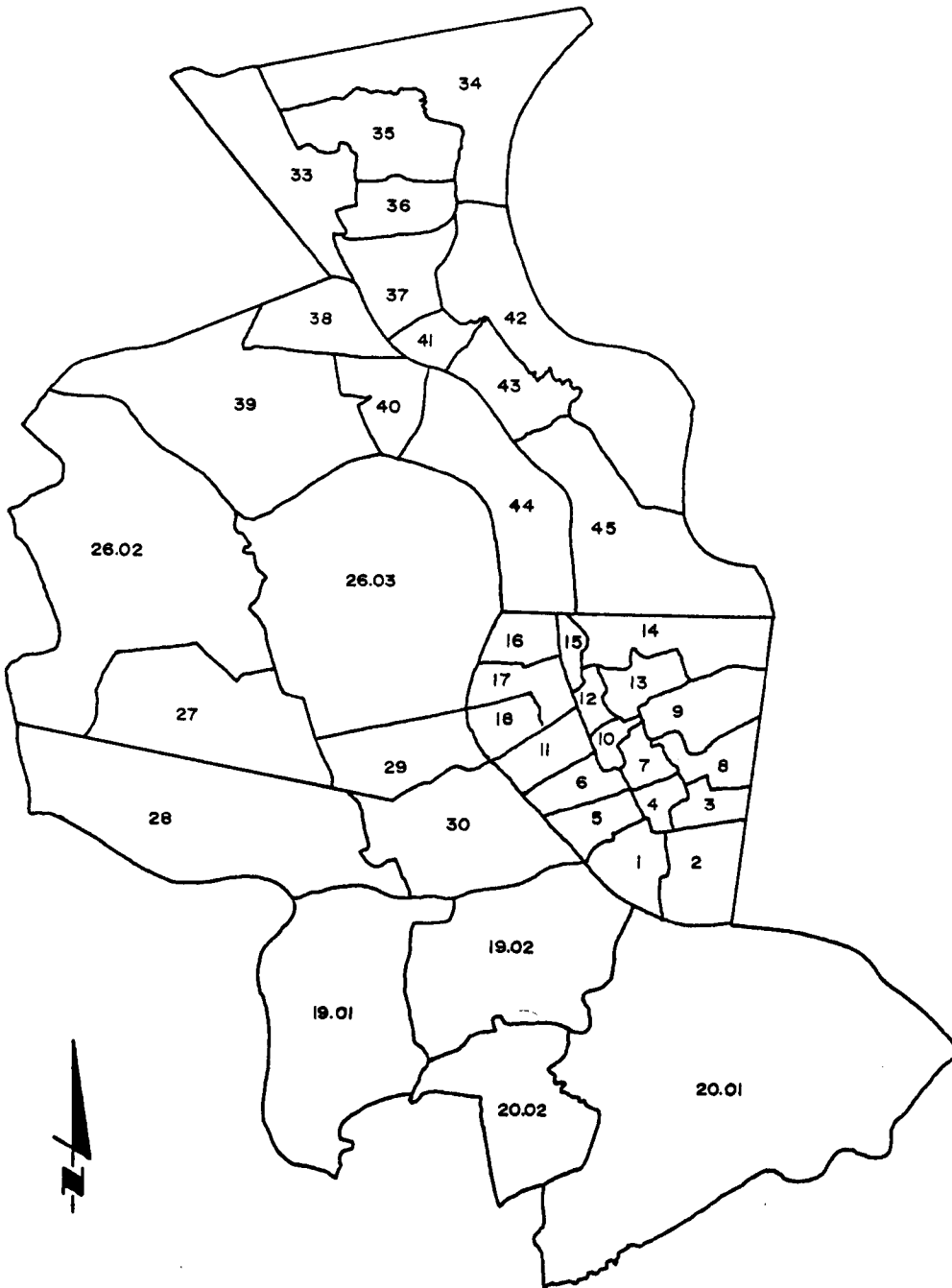


FIGURE II-3

CENSUS TRACTS IN THE CHARLESTON AQMA



CHAPTER III

1974 BASELINE YEAR ANALYSIS

As stated earlier, the emission inventory baseline year was 1974. However, the most consistent and complete air quality data were for the period July 1974 to July 1975. Since little change would be expected in the emission inventory for the two disparate time frames, the baseline year dispersion model analysis was conducted with the following inputs:

- o CY 74 emission inventories
- o FY 75 air quality data
- o FY 75 meteorological data

Reports of other air quality maintenance analyses⁽¹⁾ showed that emissions from paved roads were underestimated and those from unpaved roads overestimated by the procedures used in the area source emission inventory. To quantify these errors several preliminary diagnostic runs of the model were made using several combinations of emission values from the two source categories. The resulting regression statistics between observed and calculated values were then analyzed to determine which values provided the best fit of the data.

The results of this analysis led to the following conclusions:

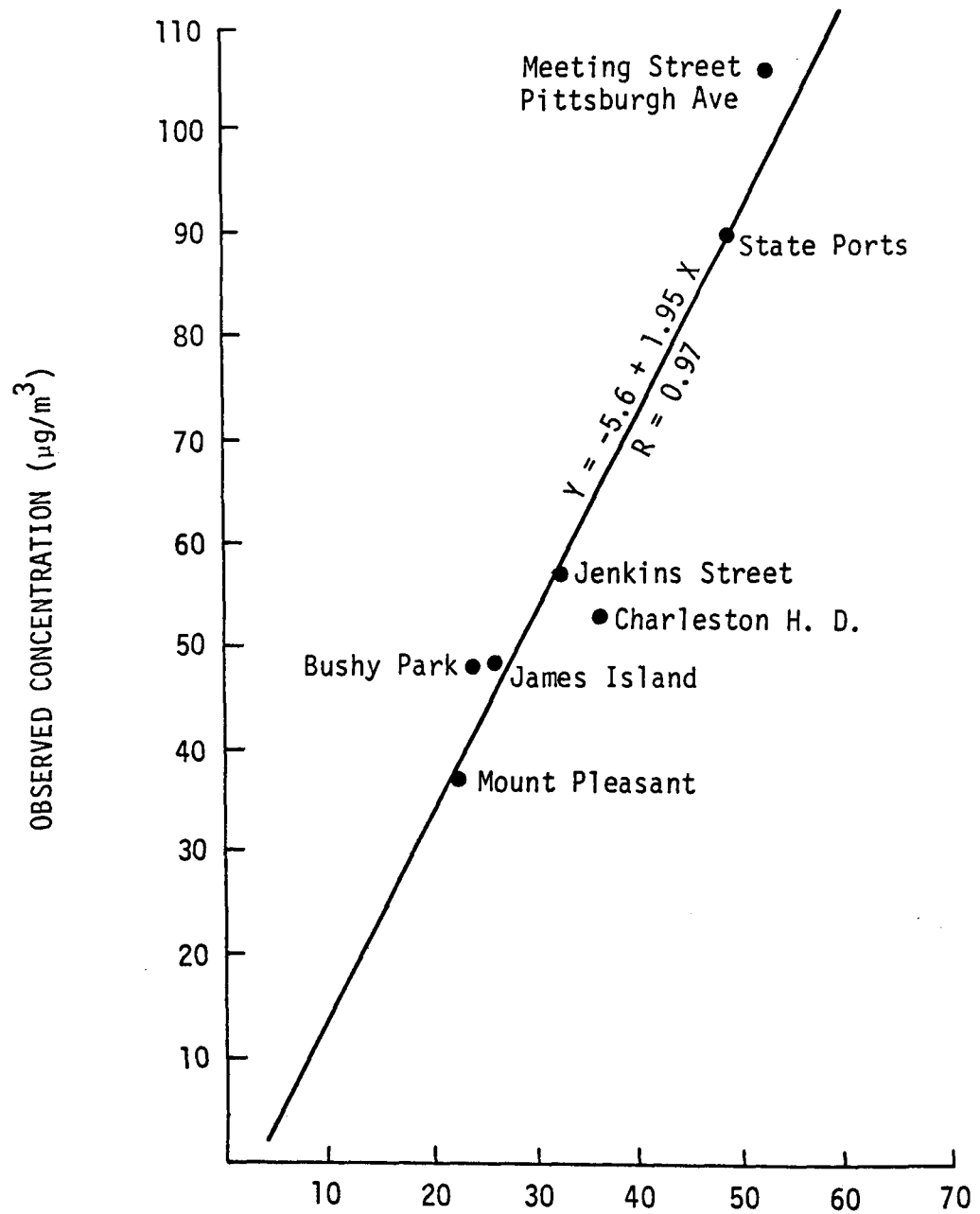
- o That the emissions from paved roads should be doubled. This conclusion is confirmed by the analyses for the other areas mentioned above.
- o That the emissions from unpaved roads should be one-half the value reported in the area source emission inventory. A great number of the unpaved road miles are in heavily forested areas. In such areas, beneath the forest canopy, the low ambient wind speeds would result in settling of dust within the forest.
- o That the two stations mentioned earlier, those at the State Ports Authority and at Meeting Street and Pittsburgh Avenue, are unduly influenced by local fugitive sources and by fugitive emissions associated with the large point sources in the immediate vicinity of the monitoring station. The regression line, observed concentration versus calculated concentration is shown in Figure III-1 for all seven monitoring stations. The regression equation is expressed as

$$Y = 5.6 + 1.95 X$$

(1) For instance, those for Greenville, S. C., Charlotte, N. C., Winston-Salem, N. C., and Louisville, Ky.

FIGURE III-1

CALCULATED VS. OBSERVED
ANNUAL ARITHMETIC MEAN CONCENTRATION
SEVEN STATIONS



where Y is the observed value and X is the calculated value. Although the correlation coefficient of 0.96 is sufficiently high to calibrate the model, the slope and intercept of the line are unacceptable.

Figure III-2 shows the regression line for the five remaining stations after State Ports and Meeting Street stations are eliminated. The regression equation is expressed as:

$$Y = 19.7 + 1.02 X$$

The slope and intercept are acceptable but the correlation coefficient is not sufficiently high to calibrate because of the small number of data points. Nevertheless, the source-receptor relationship established by the five-station regression lines is believed to be the best obtainable under the circumstances. Model inputs for the baseline and projection years analysis include a slope of unity and background concentration of $20 \mu\text{g}/\text{m}^3$.

The results of the baseline year AQDM analysis are shown in Figure III-3. The complete AQDM computer printout is included in Appendix A. The isopleths in Figure III-3 are lines of equal annual arithmetic mean concentration ($\mu\text{g}/\text{m}^3$). There are two areas of high concentration: $59 \mu\text{g}/\text{m}^3$ in Charleston (receptor No. 61) and $58 \mu\text{g}/\text{m}^3$ in North Charleston (receptor No. 51)

Table III-1, taken from Appendix A, summarizes the contributions to those two high concentration areas from the 20 greatest source contributors. In each case the 20 greatest contributors account for approximately two thirds of the total source contribution, i.e., after background concentration is removed. All of the large contributors are area sources. Figures III-4 through III-7 show the locations of the 20 largest source contributors to the two high concentration areas.

In order to better define the area source contribution to total concentration an AQDM run with area sources only was made. The results are shown in Figure III-8. The complete computer printout is included in Appendix B. As can be seen, area sources contribute significantly to all receptors. For instance, at receptor No. 61 in Charleston (598 east and 3,628 north), area

FIGURE III-2

CALCULATED VS. OBSERVED
ANNUAL ARITHMETIC MEAN CONCENTRATION
FIVE STATIONS

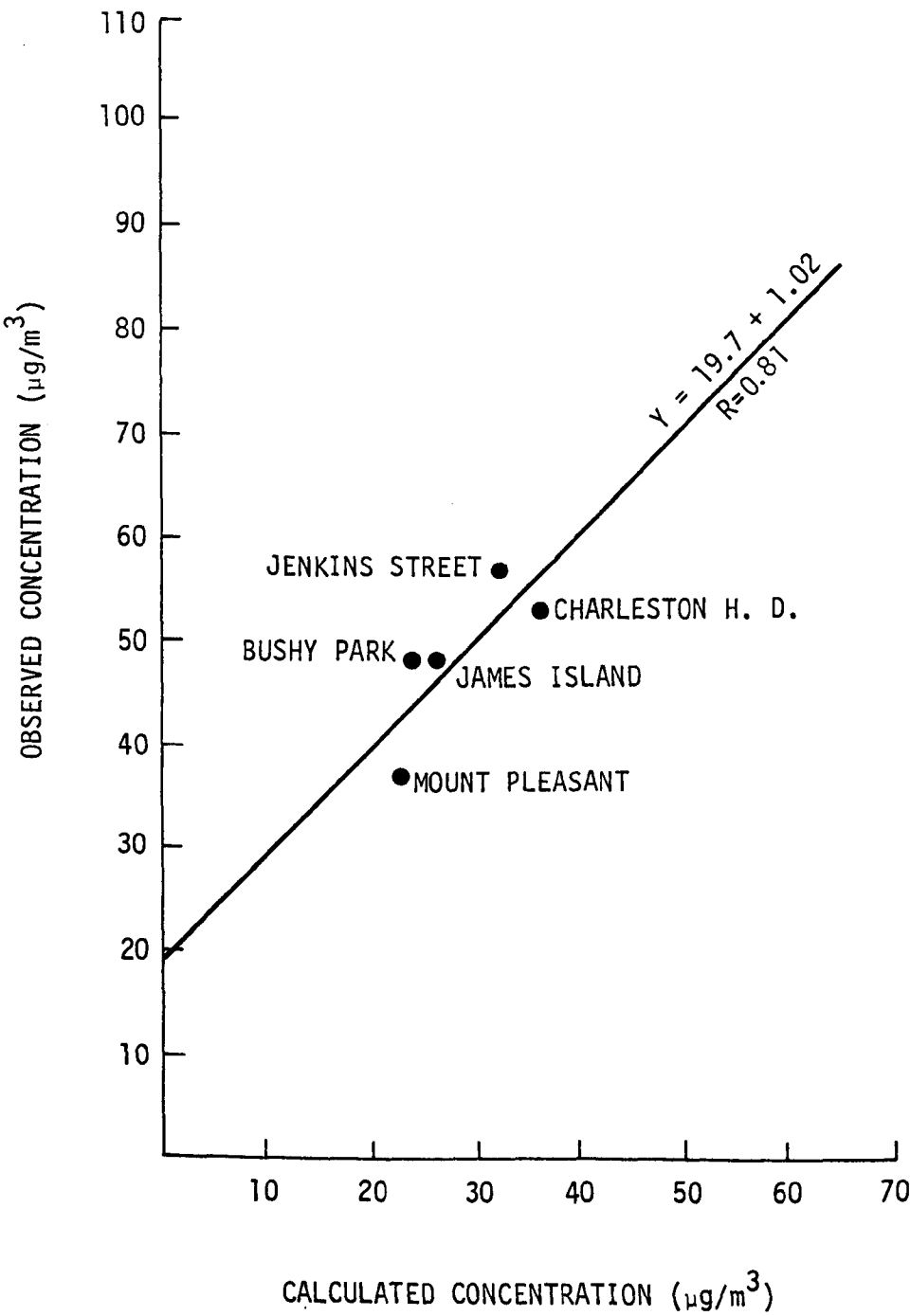


FIGURE III-3

TOTAL CONCENTRATION FIELD
BASELINE YEAR
ARITHMETIC MEAN
($\mu\text{g}/\text{m}^3$)

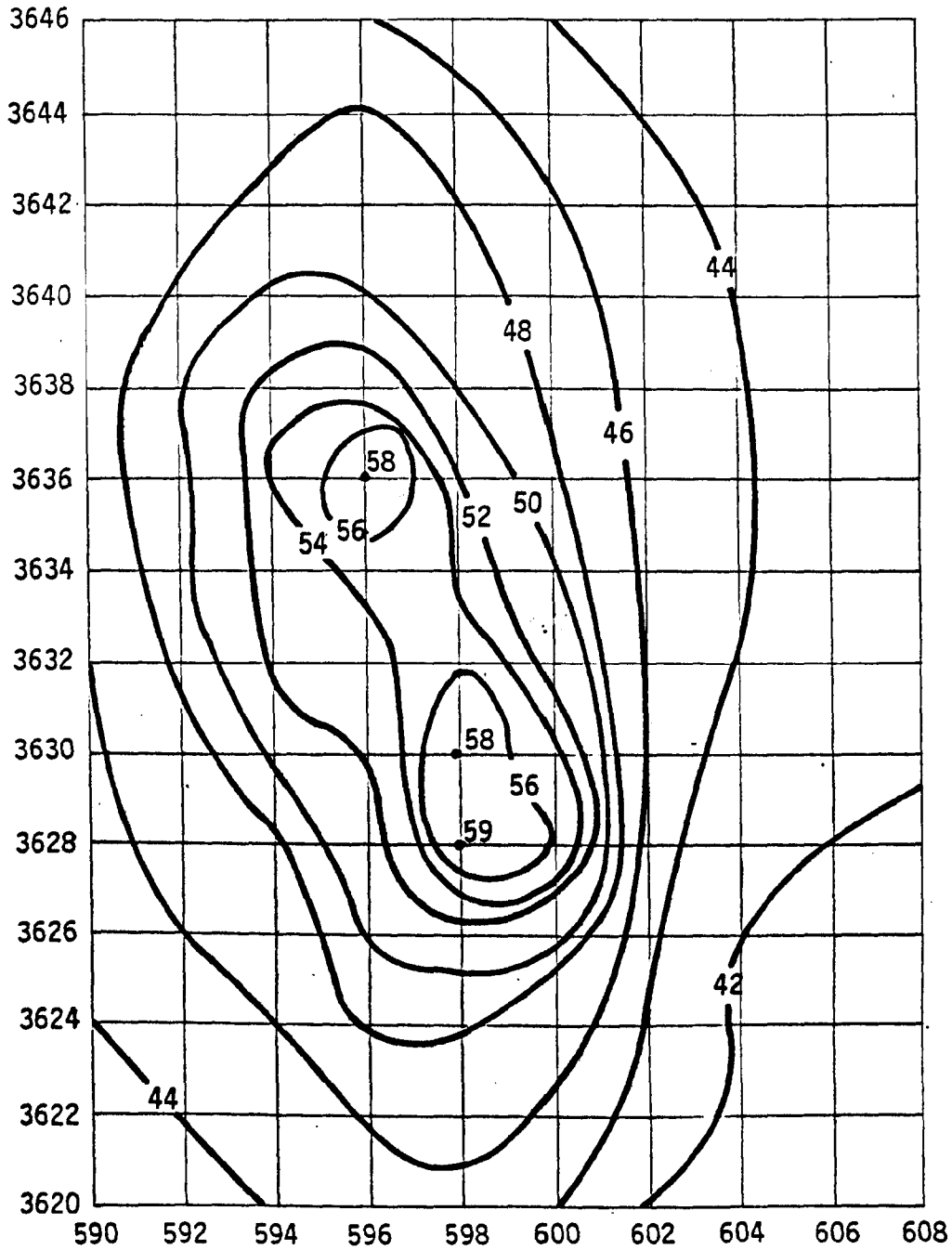


TABLE III-1

SOURCE CONTRIBUTIONS TO RECEPTORS NO. 61 AND NO. 51

Receptor No. 61				Receptor No. 51			
No.	Source	Contribution		No.	Source	Contribution	
	Name	%	$\mu\text{g}/\text{m}^3$		Name	%	$\mu\text{g}/\text{m}^3$
135	Tract 6	7.83	4.63	181	Tract 41	6.55	3.77
140	Tract 11	3.47	2.05	201	Jamestown	3.14	1.81
201	Jamestown	3.29	1.95	202	Hager-Wando	2.90	1.67
203	Cordesville	3.12	1.85	203	Cordesville	2.84	1.64
202	Hager-Wando	2.77	1.64	194	Tract 203	2.75	1.58
191	Tract 50	2.62	1.55	191	Tract 50	2.19	1.26
194	Tract 203	2.42	1.43	180	Tract 40	2.16	1.24
197	Tract 207	1.86	1.10	182	Tract 42	2.07	1.19
193	Tract 202	1.77	1.05	193	Tract 202	2.06	1.19
158	Tract 24	1.72	1.02	197	Tract 207	2.05	1.18
155	Tract 21.02	1.59	0.94	158	Tract 24	1.84	1.06
141	Tract 12	1.46	0.86	155	Tract 21.02	1.66	0.96
192	Tract 201	1.31	0.78	184	Tract 44	1.51	0.87
156	Tract 22	1.28	0.76	156	Tract 22	1.41	0.81
184	Tract 44	1.29	0.76	192	Tract 201	1.40	0.81
166	Tract 30	1.25	0.74	183	Tract 43	1.20	0.69
139	Tract 10	1.24	0.73	157	Tract 23	1.17	0.67
157	Tract 23	1.02	0.60	196	Tract 206	1.15	0.66
196	Tract 206	0.90	0.53	177	Tract 37	1.05	0.60
134	Tract 5	0.88	0.52	195	Tract 205	1.04	0.60
TOTAL						42.14	24.26
BACKGROUND						34.73	20.00
OTHER SOURCES						<u>23.15</u>	<u>13.33</u>
RECEPTOR TOTAL						100.02	57.59

FIGURE III-4

20 LARGEST CONTRIBUTORS TO RECEPTOR NO. 61

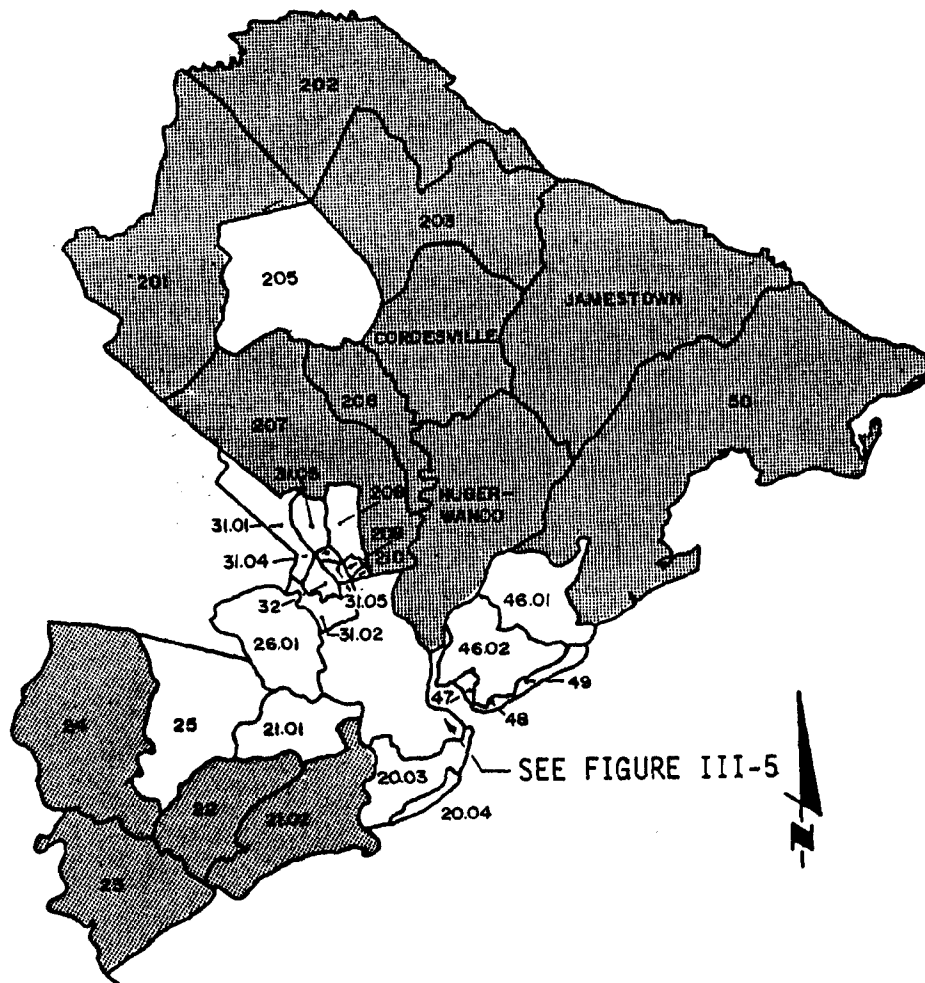


FIGURE III-5

20 LARGEST CONTRIBUTORS TO RECEPTOR NO. 61

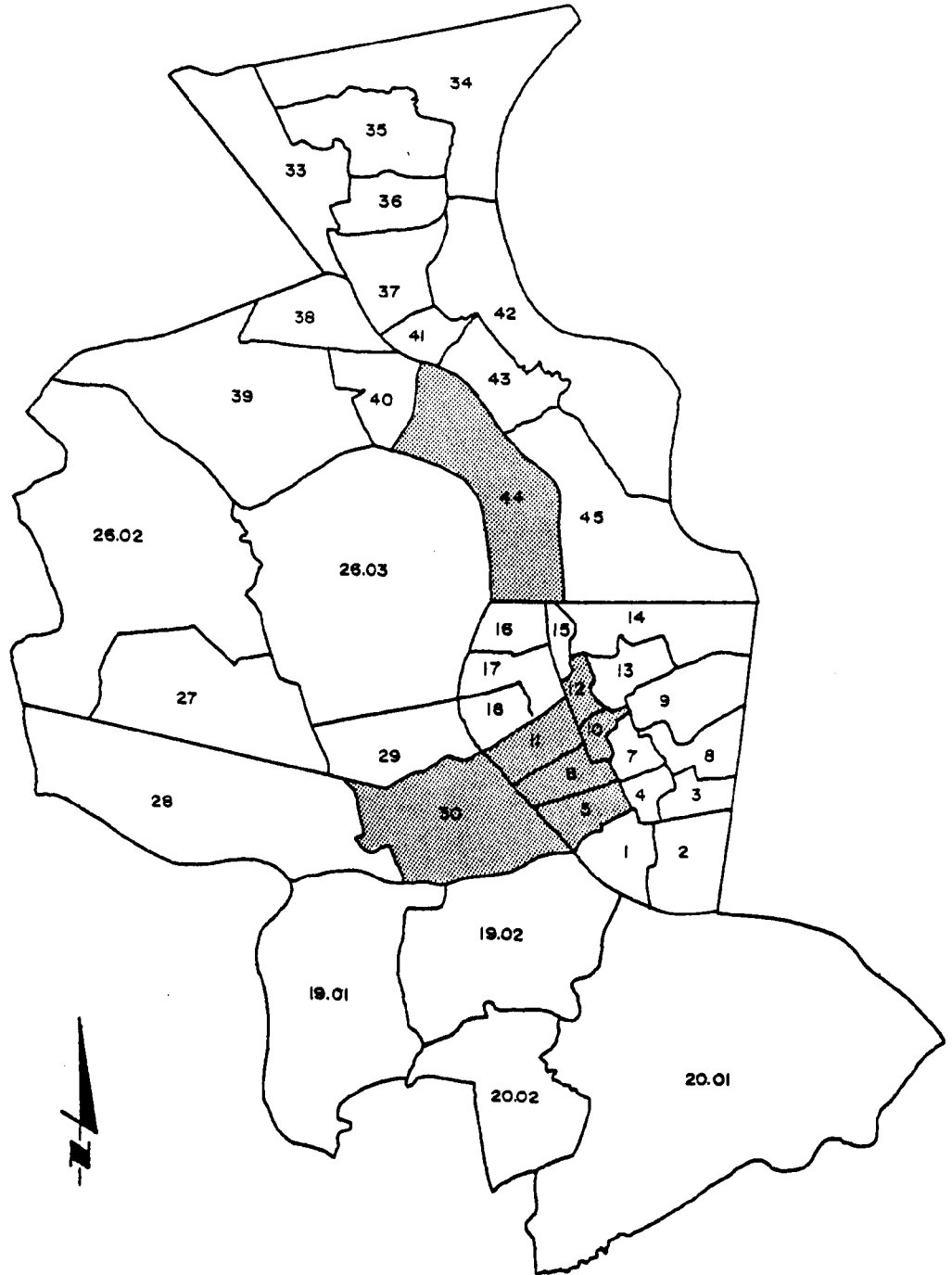


FIGURE III-6

20 LARGEST CONTRIBUTORS TO RECEPTOR NO. 51

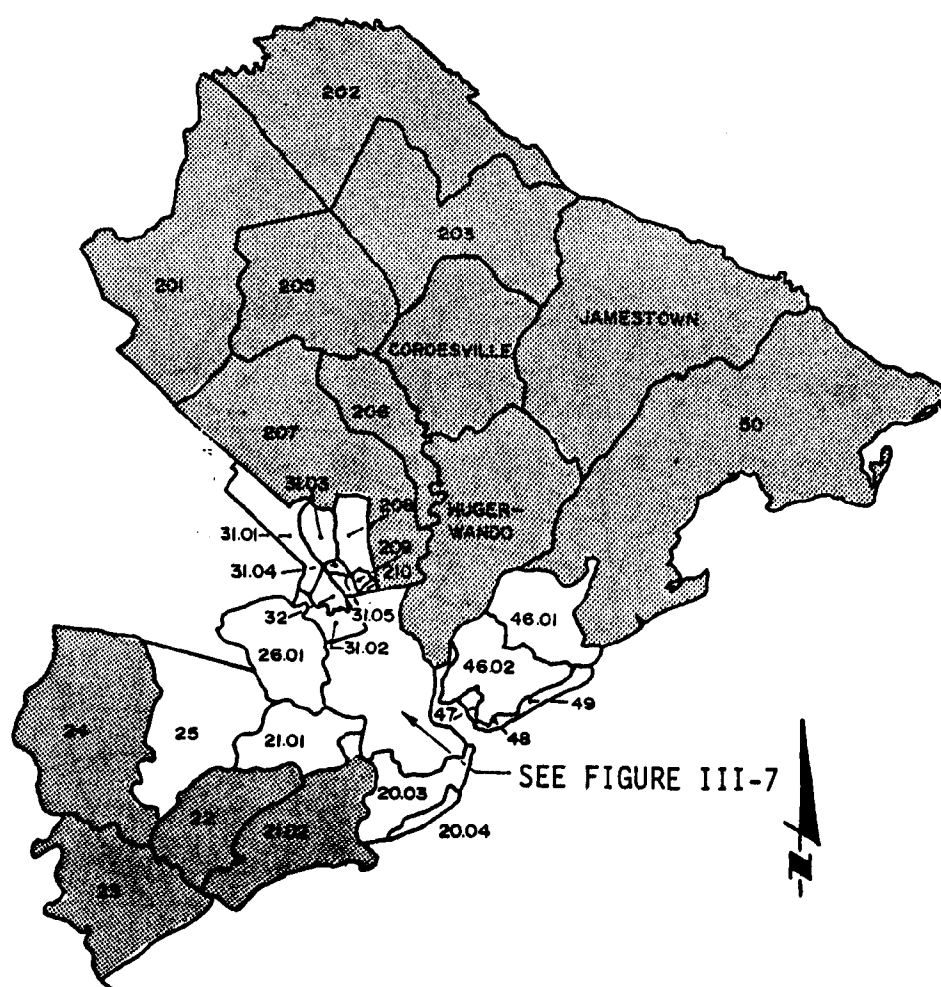


FIGURE III-7

20 LARGEST CONTRIBUTORS TO RECEPTOR NO. 51

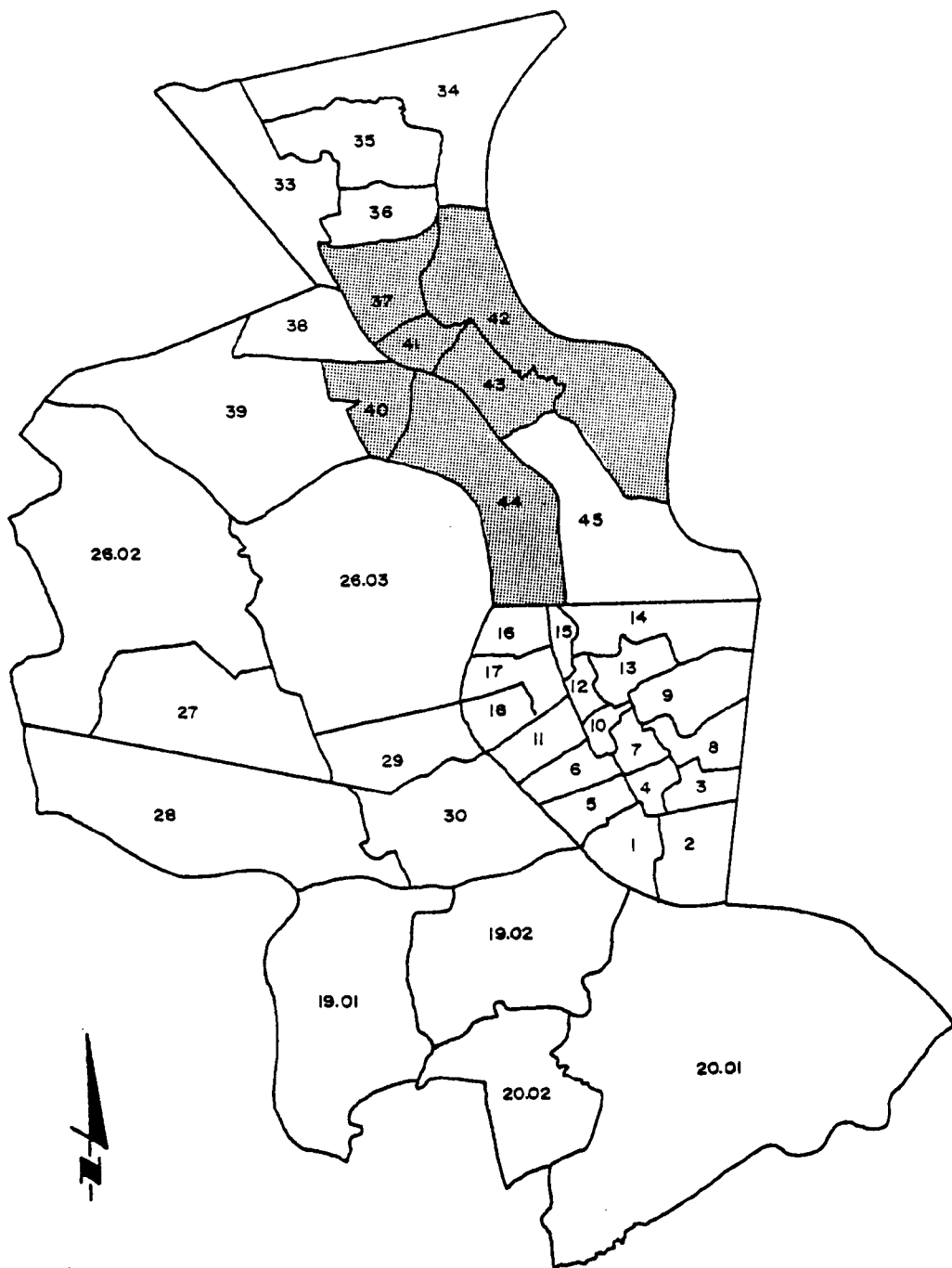
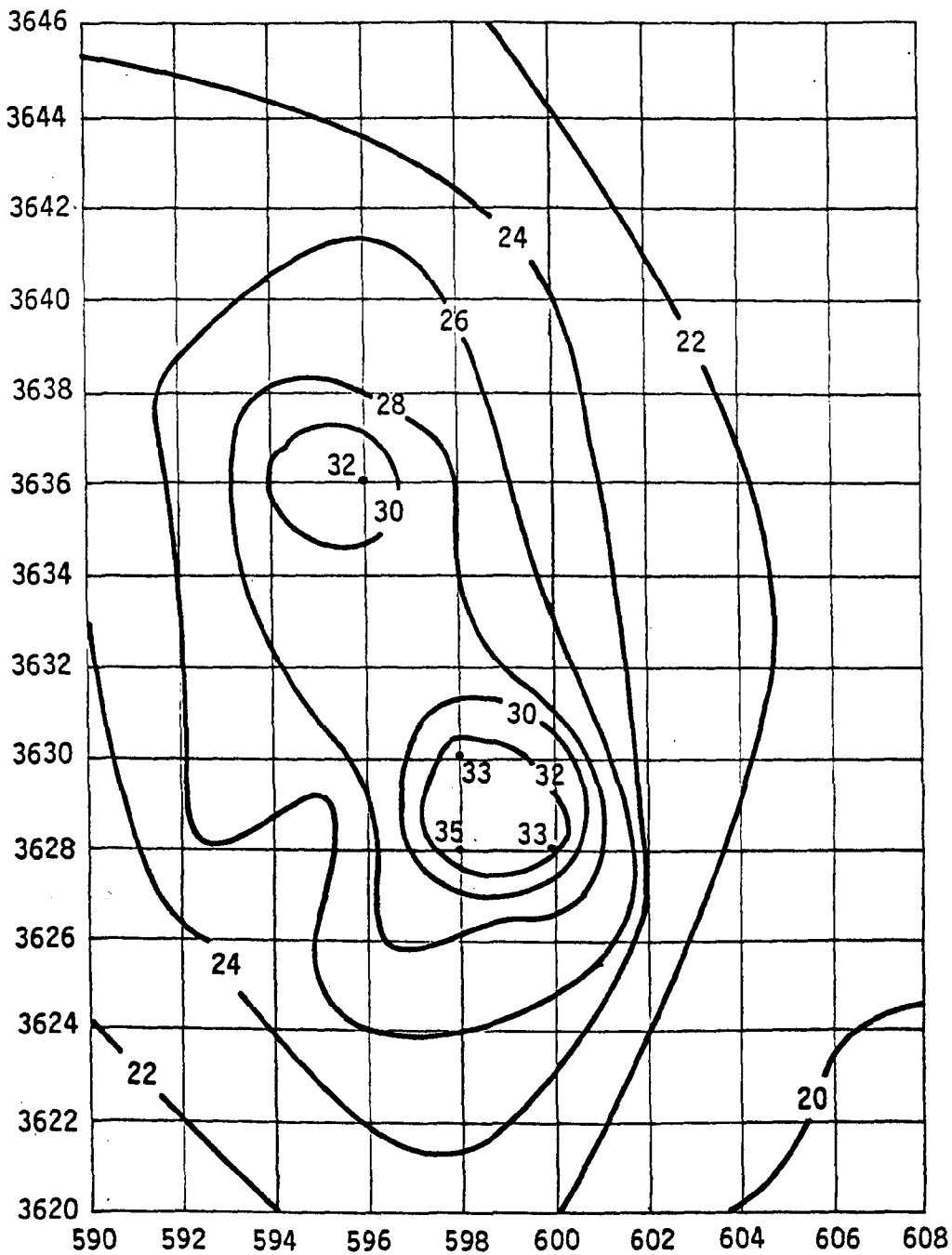


FIGURE III-8

AREA SOURCES CONCENTRATION FIELD
BASELINE YEAR
ARITHMETIC MEAN
($\mu\text{g}/\text{m}^3$)



sources alone result in concentrations of $35 \mu\text{g}/\text{m}^3$. If this value plus $20 \mu\text{g}/\text{m}^3$ background is subtracted from the total of $59 \mu\text{g}/\text{m}^3$, it is seen that point sources contribute only $4 \mu\text{g}/\text{m}^3$. Similarly, in North Charleston, point sources account for $6 \mu\text{g}/\text{m}^3$ at receptor No. 51 (596 east and 3,636 north). Nowhere in the study area is the point source contribution greater than $6 \mu\text{g}/\text{m}^3$.

The AQDM calculates annual arithmetic mean concentrations. Ambient air quality standards for TSP are based on annual geometric mean concentrations. Larsen⁽¹⁾ has suggested that air quality monitoring data are log-normally distributed. If this be the case, the annual geometric mean concentration, M_g , can be calculated from the expression,

$$M_g = \frac{M}{\exp(0.5 \ln^2 S_g)}$$

where M is the annual arithmetic mean concentration and S_g is the standard geometric deviation of the 24-hour sampling data. Values of S_g are available for the seven monitoring stations. These are summarized in Table III-2. A value of 1.7 was used in the equation above to calculate M_g . The resulting annual geometric mean concentration field is shown in Figure III-9.

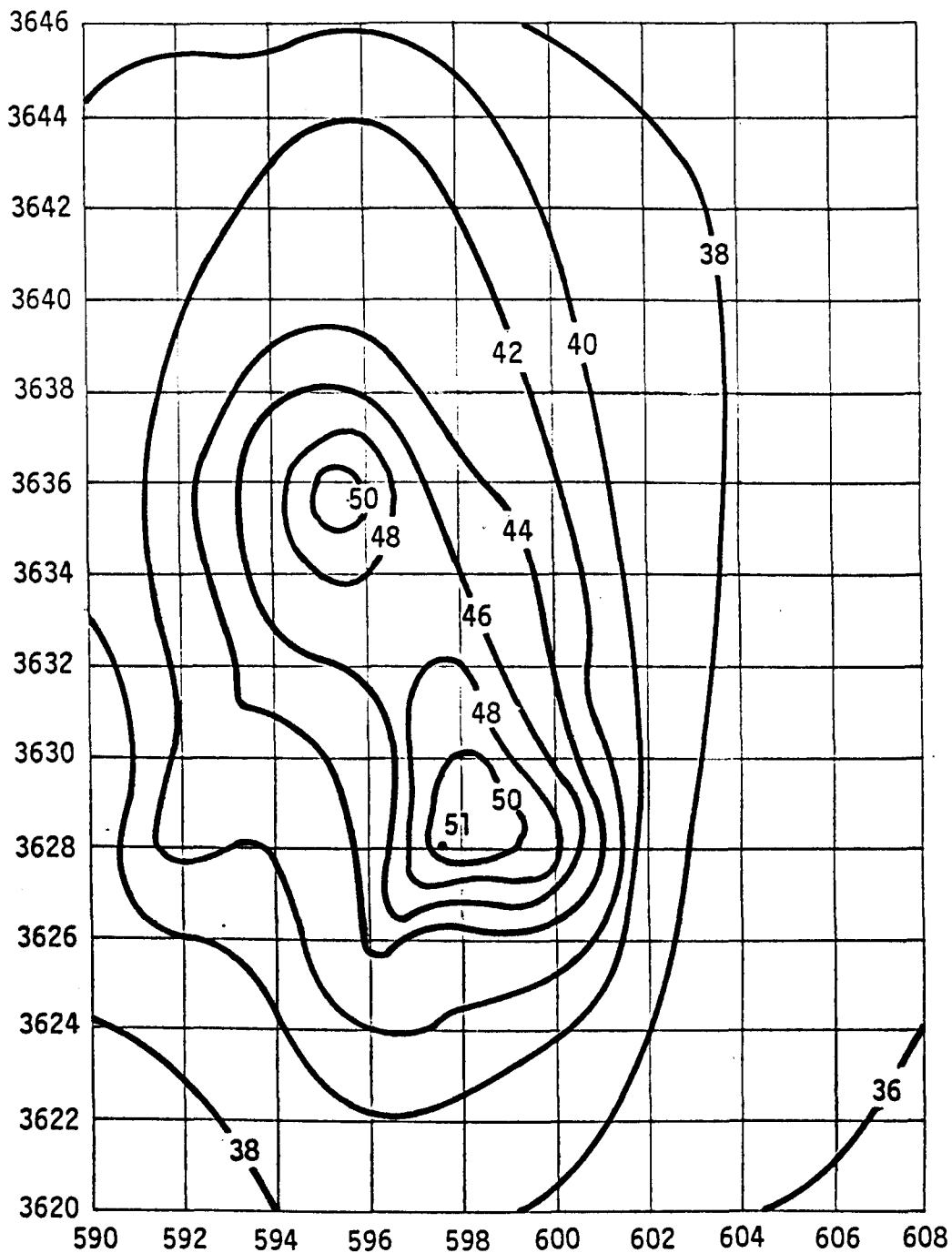
TABLE III-2
OBSERVED VALUES OF S_g

Station Name	1974	1975
Bushy Park	1.80	1.7
Charleston Health Department	1.45	1.3
Meeting @ Pittsburgh Avenue	1.77	1.6
State Ports Authority	1.84	1.9
James Island	1.79	1.4
Mount Pleasant	1.88	1.6
Jenkins Street	--	1.6
Average	1.78	1.57

(1) A Mathematical Model for Relating Air Quality Measurements to Air Quality Standards, EPA, AP-89, 1971.

FIGURE III-9

TOTAL CONCENTRATION FIELD
BASELINE YEAR
GEOMETRIC MEAN
($\mu\text{g}/\text{m}^3$)



Ambient air quality standards also apply to 24-hour concentrations, not to be exceeded more than once per year. Larsen has further suggested a method for estimating the second highest 24-hour concentration value from annual average data. The second highest concentration,

$$C = MgSg^z$$

where $z = 2.62$ is a statistical parameter which defines the frequency of the second highest value in a log-normally distributed sample of 365. Using a geometric mean of $51 \mu\text{g}/\text{m}^3$ from Figure III-9 and with $Sg = 1.7$ as before, C is found to be $205 \mu\text{g}/\text{m}^3$. The reported second highest values are summarized in Table III-3.

TABLE III-3
OBSERVED SECOND HIGHEST 24-HOUR SAMPLES

Station Name	1974	1975
Bushy Park	106	97
Charleston Health Department	97.5	103
Meeting @ Pittsburgh Avenue	549	213
State Ports Authority	326	279
James Island	125	92
Mount Pleasant	183	73
Jenkins Street	-	123

The calculated values of both the geometric mean concentration and the second highest concentration are sensitive to the estimate of the standard geometric deviation of the log-normal distribution. As Sg decreases, Mg increases, and C decreases. As SG increases, Mg decreases, and C increases.

Table III-4 illustrates these effects for the range of Sg shown in Table III-2.

TABLE III-4

Mg ($\mu\text{g}/\text{m}^3$) AND C ($\mu\text{g}/\text{m}^3$) AS A FUNCTION OF Sg

Sg	Mg	C
1.3	57	113
1.7	51	205
1.9	48	258

The calculation of the second highest concentration was based on the model computed maximum arithmetic mean concentration. Since the Meeting Street and Ports Authority concentrations were not predicted by the model, the maximum concentration calculated would not be representative of those two local areas. Rather, the maximum concentration is that which might be observed in the analysis area outside of those two local areas.

Caution is advised when comparing calculated second highest maximum value with observed second highest maximum. The latter are usually based on a 6-day sampling frequency, resulting in a sample size of approximately 60 per year. The calculated values, on the other hand, estimate the value for a sample size of 365. Obviously, if samples were taken every day the extreme values would be larger. That is to say, by taking only 60 samples per year, it is likely that the singular, very high values would be missed. Consequently, calculated values are expected to be higher than the observed values shown in Table III-3, the Meeting Street and Ports Authority stations excepted.

CHAPTER IV

PLANNING YEARS ANALYSIS

Figures IV-1 through IV-3 show the results of the planning years AQDM analyses. For these results inputs into the model included a slope of 1.0 and a background concentration of $20.0 \mu\text{g}/\text{m}^3$, and meteorological data for the five year period 1960 through 1964. Computer printouts are contained in Appendices C through E. Maximum concentrations resulting are summarized and compared to the baseline year values in Table IV-1.

TABLE IV-1

BASELINE YEAR AND PLANNING YEARS

MAXIMUM CONCENTRATIONS ($\mu\text{g}/\text{m}^3$)

	1974	1975	1980	1985
Annual Arithmetic Mean	59	62	61	63
Annual Geometric Mean ⁽¹⁾	51	54	53	55
2nd Highest 24-Hour Concentration ⁽²⁾	205	217	213	221

Table IV-2 summarizes the model predicted concentration at the five receptors with maximum values.

$$(1) \quad \text{From Mg} = \frac{M}{\exp(0.5 \ln^2 1.7)}$$

$$(2) \quad \text{From C} = \text{Mg} (1.7)^{2.62}$$

TABLE IV-2
PREDICTED CONCENTRATION AT FIVE
MAXIMUM RECEPTORS ($\mu\text{g}/\text{m}^3$)

RECEPTOR	YEAR			
	1971	1975	1980	1985
50	55	59	58	60
51	58	62	61	63
61	59	61	61	62
62	58	60	60	61
75	56	59	59	60

FIGURE IV-1

TOTAL CONCENTRATION FIELD
1975
ARITHMETIC MEAN
($\mu\text{g}/\text{m}^3$)

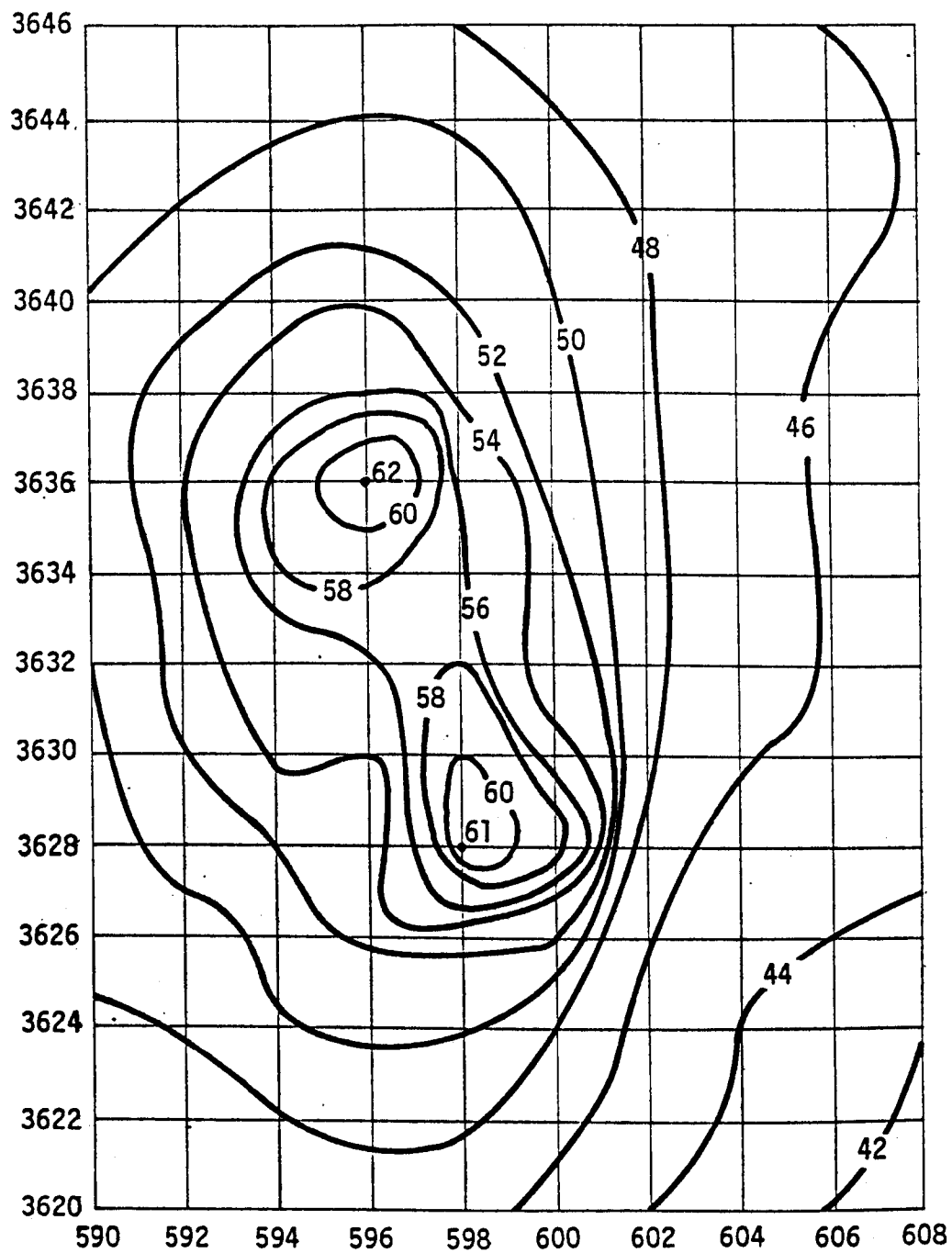


FIGURE IV - 2

TOTAL CONCENTRATION FIELD
1980
ARITHMETIC MEAN
($\mu\text{g}/\text{m}^3$)

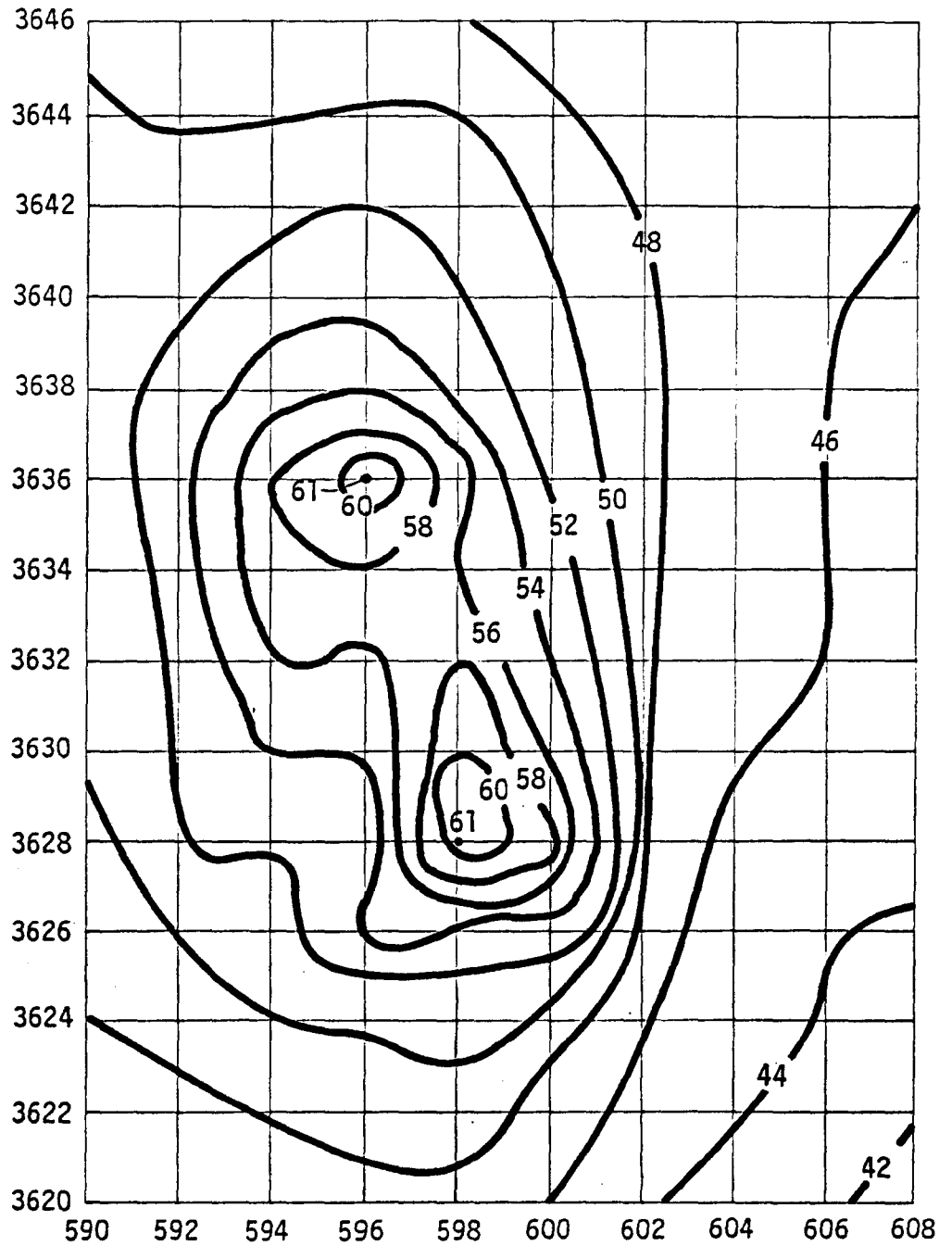


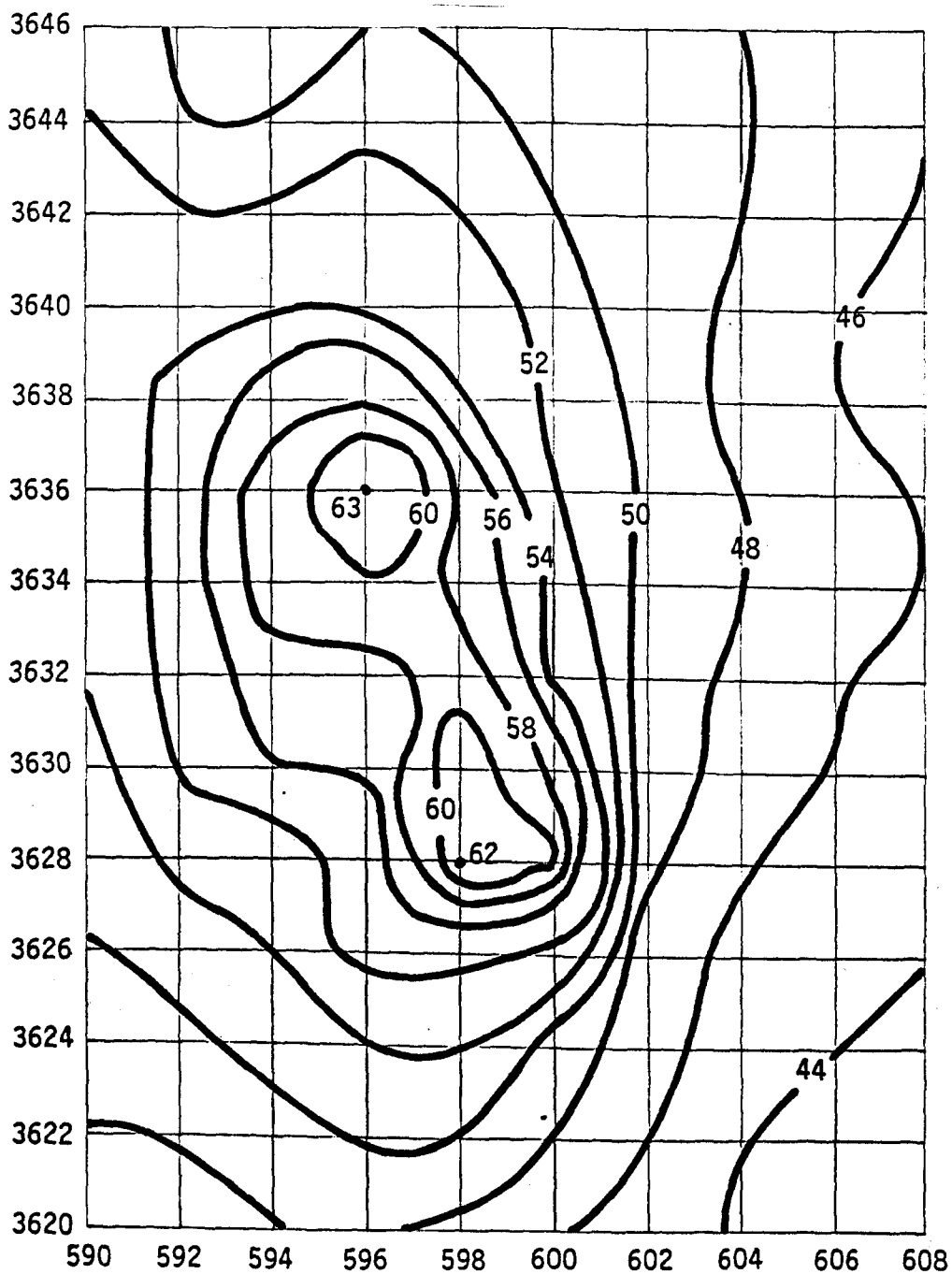
FIGURE IV-3

TOTAL CONCENTRATION FIELD

1985

ARITHMETIC MEAN

($\mu\text{g}/\text{m}^3$)



CHAPTER V

DISCUSSION, CONCLUSIONS AND RECOMMENDATIONS

AIR QUALITY DATA

Because of the inconsistency in monitoring station exposure between 1974 and 1975, trends in air quality are difficult to determine. The data in Table II-1 shows a rather large improvement in air quality from 1974 to 1975 for the Meeting Street, State Ports and Mount Pleasant stations. It will be recalled, however, that these stations were relocated in 1974. The Jenkins Street station had a large increase in measured concentration from 1974 to 1975, but the 1974 average was based on only 6 sampling days. The three remaining stations all showed an increase in concentration between 1974 and 1975.

The comparison of fiscal year 1975 and calendar year 1975 observed data is shown in Figure V-1. The high correlation (0.97) between the two data sets would be expected because of the overlapping averaging periods; six months of the samples were common to both periods. The regression equation is:

$$Y = 14 + 0.75 X$$

where Y is the CY 1975 observed data and X is the FY 1975 observed data.

The slope and intercept of the regression line show that an improvement in air quality would be expected in areas of high pollution ($> 57 \mu\text{g}/\text{m}^3$) and a degradation of air quality in other areas.

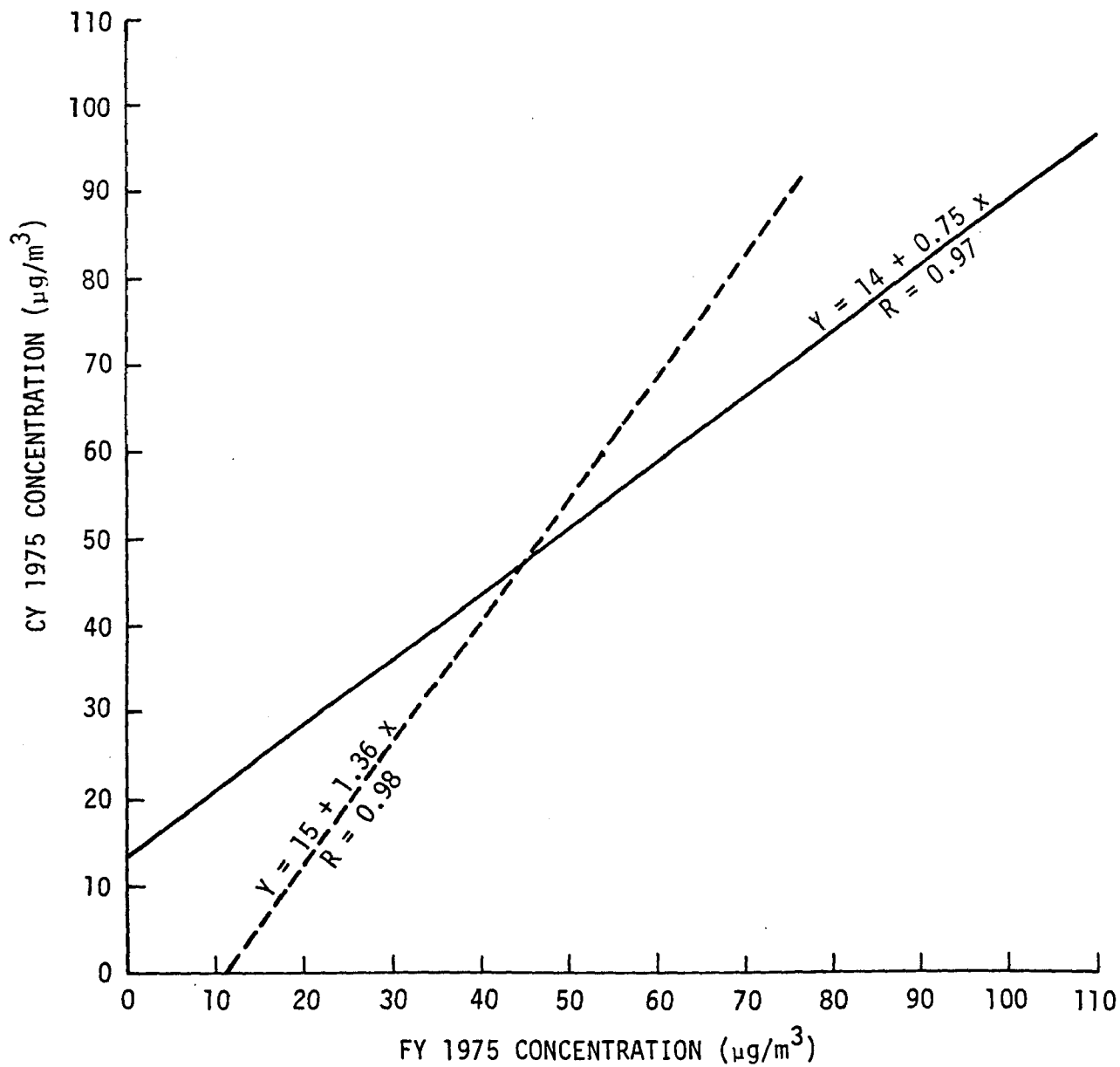
No such conclusion is reached if the Meeting Street and Ports Authority Stations are disregarded. In this case the regression equation is:

$$Y = -15 + 1.36 X$$

and degradation would be expected in all areas with FY 1975 concentration greater than $40 \mu\text{g}/\text{m}^3$.

FIGURE V-1

COMPARISON OF FY 1975 AND CY 1975
OBSERVED ARITHMETIC MEAN CONCENTRATIONS



EMISSION INVENTORIES

Table V-1 summarizes the total emission inventories for the baseline and planning years.

TABLE V-1
EMISSION INVENTORY SUMMARY
(tons/year)

	1974	1975	1980	1985
Area Sources	55,727	55,828	56,103	56,365
Point Sources	<u>13,097</u>	<u>10,407</u>	<u>9,777</u>	<u>10,137</u>
Total	68,824	66,235	65,880	66,502

Emission trends are shown on Figure V-2. Area source emissions increase throughout the planning period but at a lesser rate during the last half of the decade. It should be noted, however, that the emissions from unpaved roads, by far the largest source category, were projected to remain constant over the period.

Point source emissions are expected to decrease by 25% from 1974 to 1980. By 1985 these emissions are expected to increase again to the 1975 level, but still well below the 1974 baseline year estimates. Total emissions follow the same trend as point source emissions. The 1985 total emissions are projected to be slightly greater than in 1975 but 3.4% less than in 1974.

Figure V-3 shows the area source emission density for Charleston city.

METEOROLOGICAL DATA

Fiscal year 1975 meteorological data were used in the baseline year analysis, and the mean 1960 through 1964 data for the projection years, 1975, 1980 and 1985. Table V-2 permits a comparison of the two data sets with regard to wind speed and stability. Although the stability class was very similar for the two periods, wind speed for the baseline year was 4% less

FIGURE V-2

EMISSION TRENDS 1974 - 1985

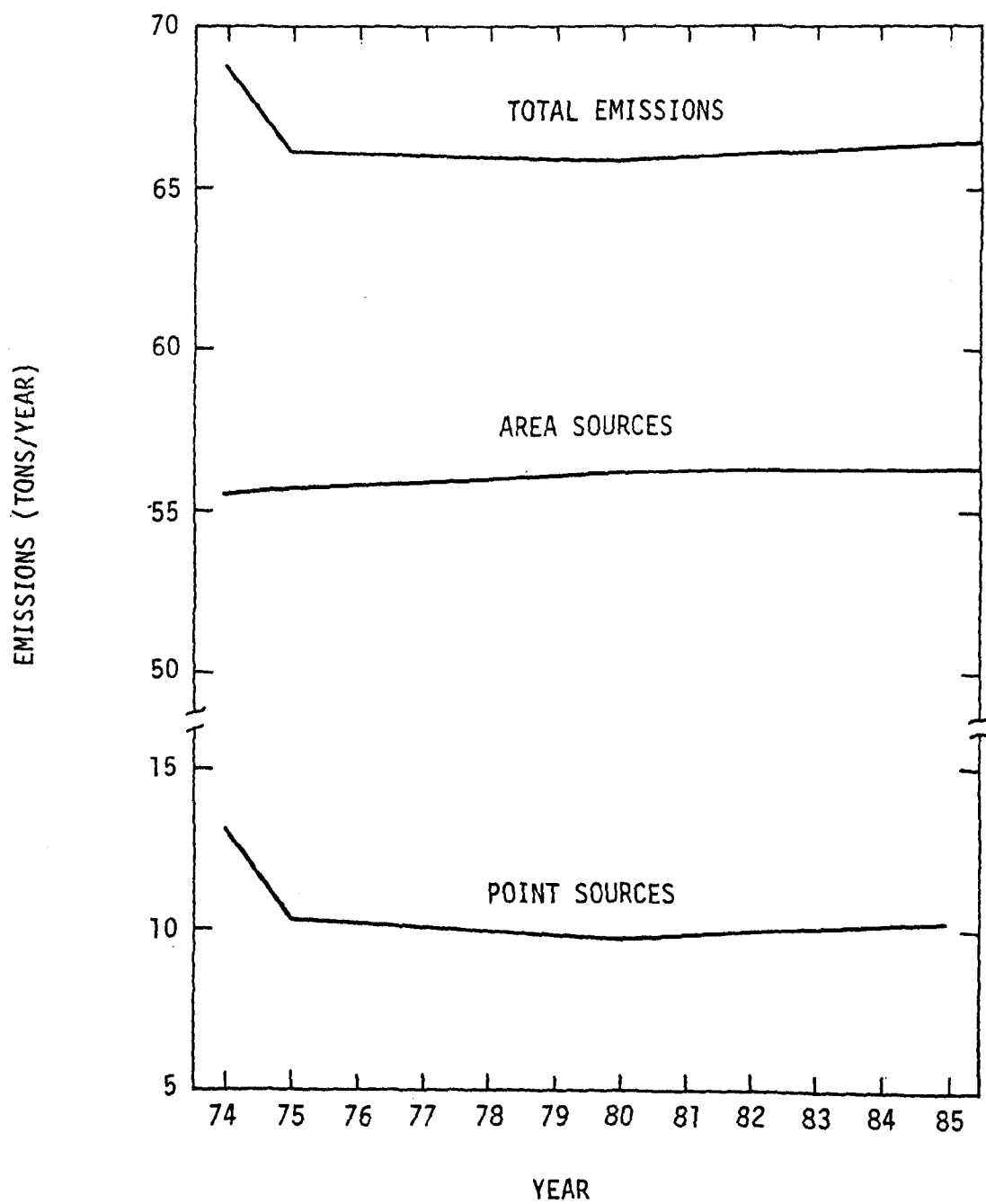
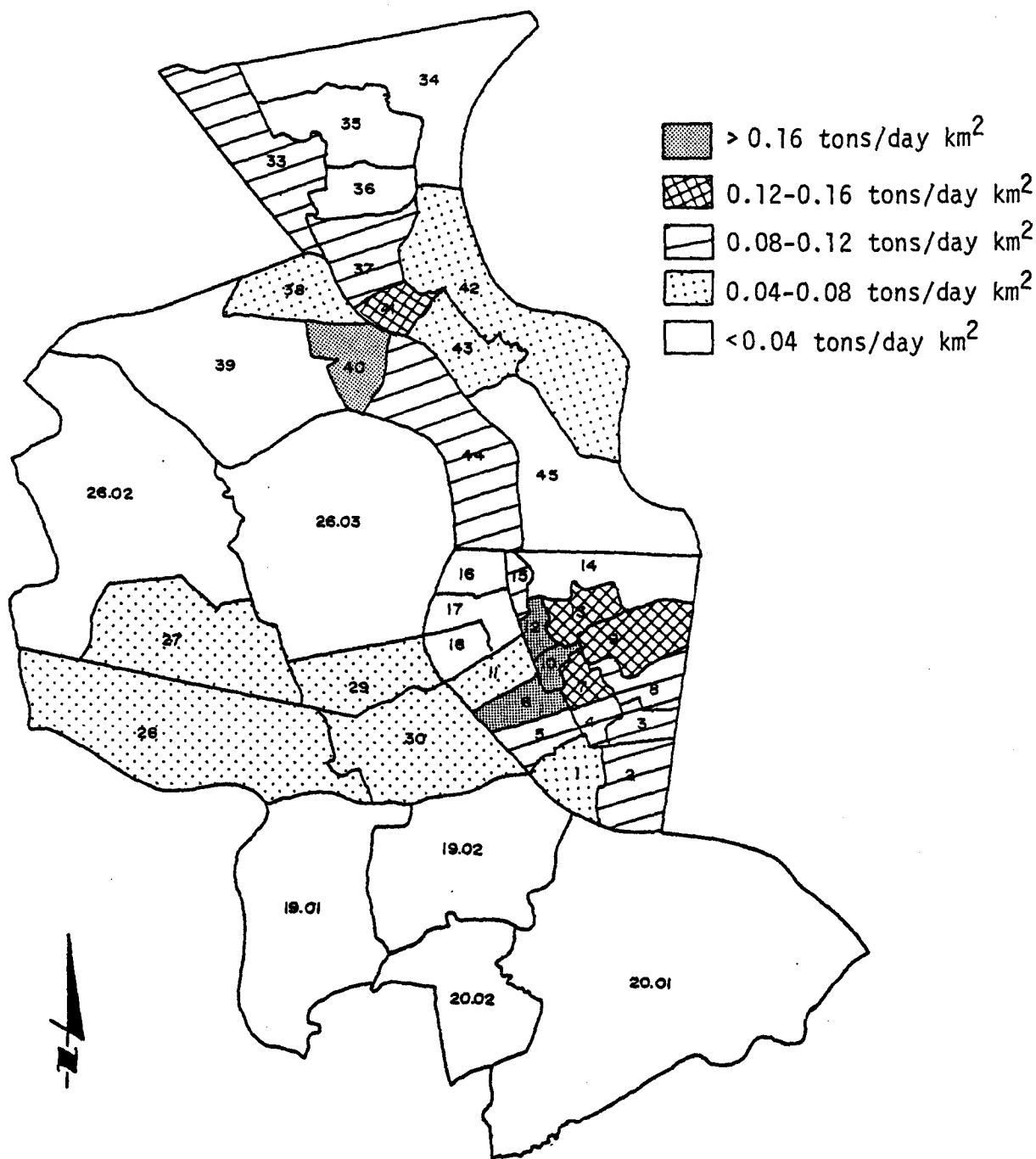


FIGURE V-3

AREA SOURCE EMISSION DENSITIES IN CHARLESTON BASE LINE YEAR



ADDITIONAL TRACTS WITH DENSITYIES > 0.04 tons/day- km^2 :

0.08-0.12 tract 48

0.04-0.08 tracts 22, 24, 31.04 and 31.05

TABLE V-2
WIND SPEED - STABILITY DISTRIBUTIONS (%)

July 1974 - June 1975							
Stability Class	Wind Speed Class (Knots)						Total
	1-3	4-6	7-10	11-16	17-21	>21	
1	0.1	0.3	0	0	0	0	0.4
2	1.0	2.8	2.1	0	0	0	5.9
3	0.9	3.6	8.3	1.2	0	0	14.0
4	1.0	8.3	19.9	13.8	0.7	0.1	43.8
5	8.9	21.6	5.4	0	0	0	35.9
Total	11.9	36.6	35.7	15.0	0.7	0.1	100.0

Mean wind speed 7.1 knots.
Mean stability class 4.1

January 1960 - December 1964							
Stability Class	Wind Speed Class (Knots)						Total
	1-3	4-6	7-10	11-16	17-21	>21	
1	0.3	0.5	0	0	0	0	0.8
2	1.1	2.2	2.1	0	0	0	5.4
3	0.5	3.0	7.5	1.6	0	0	12.6
4	1.0	5.5	16.9	16.8	2.2	0.4	42.8
5	11.6	19.2	7.6	0	0	0	38.4
Total	14.5	30.4	34.1	18.4	2.2	0.4	100.0

Mean wind speed 7.4.
Mean stability class 4.1.

than normal as estimated from the 1960 summary. All other things being equal, FY-75 observed concentrations might have been 4% less had the wind speed not been anomalous.

Figure V-4 is a comparison of the FY 1975 and the 1960 to 1964 wind direction frequency. It appears that wind direction from the northeast quadrant was less frequent in 1975 than normal and more frequent from the southeast through south-southwest direction.

It is difficult to interpret the effect of this difference. As shown in Figures III-4 through III-7 many of the largest contributors to receptors 51 and 61 lie to the north through east. On the other hand, area source emission densities, as shown in Figure V-3, are greater along the northwest-southeast axis through the city.

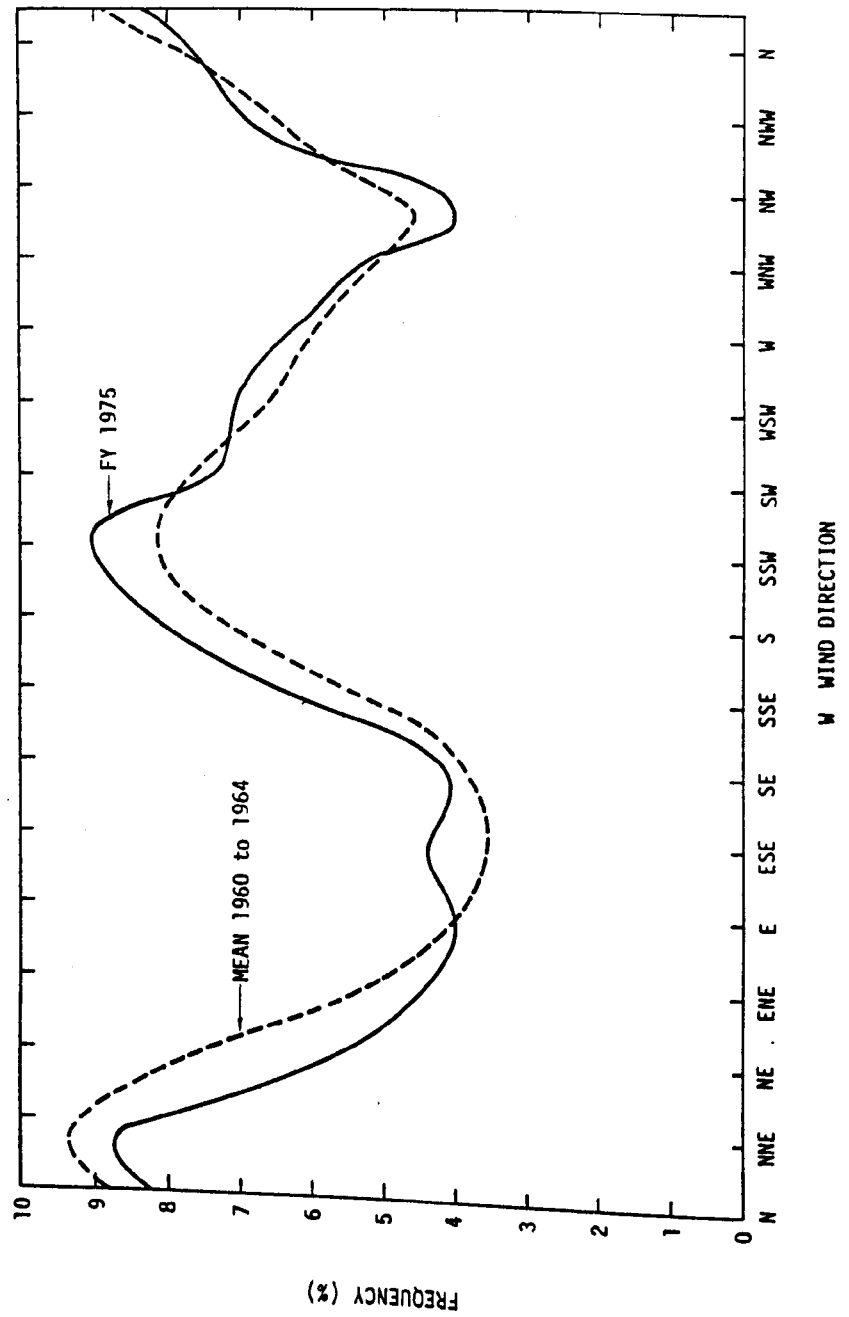
PROJECTED AIR QUALITY

The nearly 4% decrease in total emissions from 1974 to 1975, discussed in a preceding section and summarized in Table V-1, should have resulted in model predicted improved air quality of a comparable amount. As shown in Table IV-1 and by Figures III-3 and IV-1, such was not the case. This conundrum can only be explained, if, between the two years there was (1) a different distribution of sources, or (2) a significant difference in meteorological data input to the AQDM.

Very limited changes in the point source emission inventory were made between the two years and no point sources had increased emission. Very minor changes in area sources were made with the exception of the Goose Creek area. In this area (census tracts 31.01 through 32) emissions were projected to increase by approximately 17.6% due primarily to activities associated with the substantial growth in that area. Increased emission from that area resulted in an increase of less than $0.5 \mu\text{g}/\text{m}^3$ in concentration. Such an increase would have been at least partly compensated for by reduced emissions in some other areas.

FIGURE V-4

WIND DIRECTION FREQUENCY



It is apparent that the difference in meteorological data between the two years caused the apparent inconsistency. Furthermore, the small difference in wind speeds would have had an opposite effect from that observed: calculated concentrations would have decreased more than that indicated by decreased emissions.

Table V-3 shows the source contribution to receptor 61 in Charleston for the baseline year (from Table III-1) and for 1975. With the exception of source No. 184 where emissions were considerably reduced, no significant change in emission was made. In particular, note sources 201, 203 and 191. Those sources, all located to the northeast of the receptor, had unchanged emissions yet they accounted for an increase of $1.68 \mu\text{g}/\text{m}^3$ in the concentration at the receptor. On the other hand, those sources near the receptor, tracts 5, 6, 10, 11, 12 in the high emission density area, added only $0.15 \mu\text{g}/\text{m}^3$ to the increased 1975 concentration.

It is believed safe to say that the unexpected increase in calculated concentration from FY 1975 to CY 1975 resulted from the increased frequency of northeasterly winds in the meteorological data used for the latter period.

The predicted air quality for 1980 and 1985, using the same meteorological data as for 1975, reflected very closely the changes in emissions: a decrease in both emissions and calculated concentrations from 1975 to 1980 and an increase from 1980 to 1985.

TABLE V-3
CONTRIBUTIONS TO RECEPTOR NO. 61
1974 and 1975

No.	Name	Contribution ($\mu\text{g}/\text{m}^3$)		
		1974	1975	Difference
135	Tract 6	4.63	4.72	+0.09
140	Tract 11	2.05	2.18	+0.13
201	Jamestown	1.95	2.54	+0.59
203	Goodesville	1.85	2.30	+0.45
202	Hager-Wando	1.64	1.78	+0.14
191	Tract 50	1.55	2.19	+0.64
194	Tract 203	1.43	1.51	+0.08
197	" 207	1.10	1.10	0
193	" 202	1.05	1.02	-0.03
158	" 24	1.02	1.16	+0.14
155	" 21.02	0.94	1.06	+0.12
141	" 12	0.86	0.77	-0.09
192	" 201	0.78	0.73	-0.05
156	" 22	0.76	0.95	+0.19
184	" 44	0.76	0.05	-0.71
166	" 30	0.74	0.63	-0.11
139	" 10	0.73	0.73	0
157	" 23	0.60	0.78	+0.18
196	" 206	0.53	0.50	-0.03
134	" 5	0.52	0.54	+0.02
Total		25.49	27.24	+1.75

COMPARISON OF 1975 OBSERVED AND CALCULATED CONCENTRATIONS

Table V-4 compares the 1975 observed concentrations (from Table II-1) and the AQDM calculated value.

TABLE V-4
1975 CONCENTRATIONS AT THE MONITORING STATIONS
($\mu\text{g}/\text{m}^3$)

Station Name	Observed	Calculated
Bushy Park	49	48
Charleston Health Department	57	57
Meeting @ Pittsburgh Avenue	90	57
State Ports Authority	84	53
James Island	54	49
Mount Pleasant	34	45
Jenkins Street	61	56

The values are plotted on Figure V-5 with the background concentration of $20 \mu\text{g}/\text{m}^3$ removed to facilitate comparison with the baseline year calibration equation. The calibration regression line is drawn on the figure. Reasonable results were obtained except for the Meeting Street and Ports Authority stations. This was to be expected because the calibration regression line did not include those two stations. The correlation coefficient for the five remaining stations is 0.85, slightly higher than for the baseline year.

It is interesting to examine what the 1975 results would have been had we used the seven station regression line. These values are shown in Table V-5. A correlation coefficient of 0.71 is obtained which is considerably lower than for the baseline year.

FIGURE V-5

1975 CALCULATED VS OBSERVED ANNUAL
ARITHMETIC MEAN CONCENTRATION

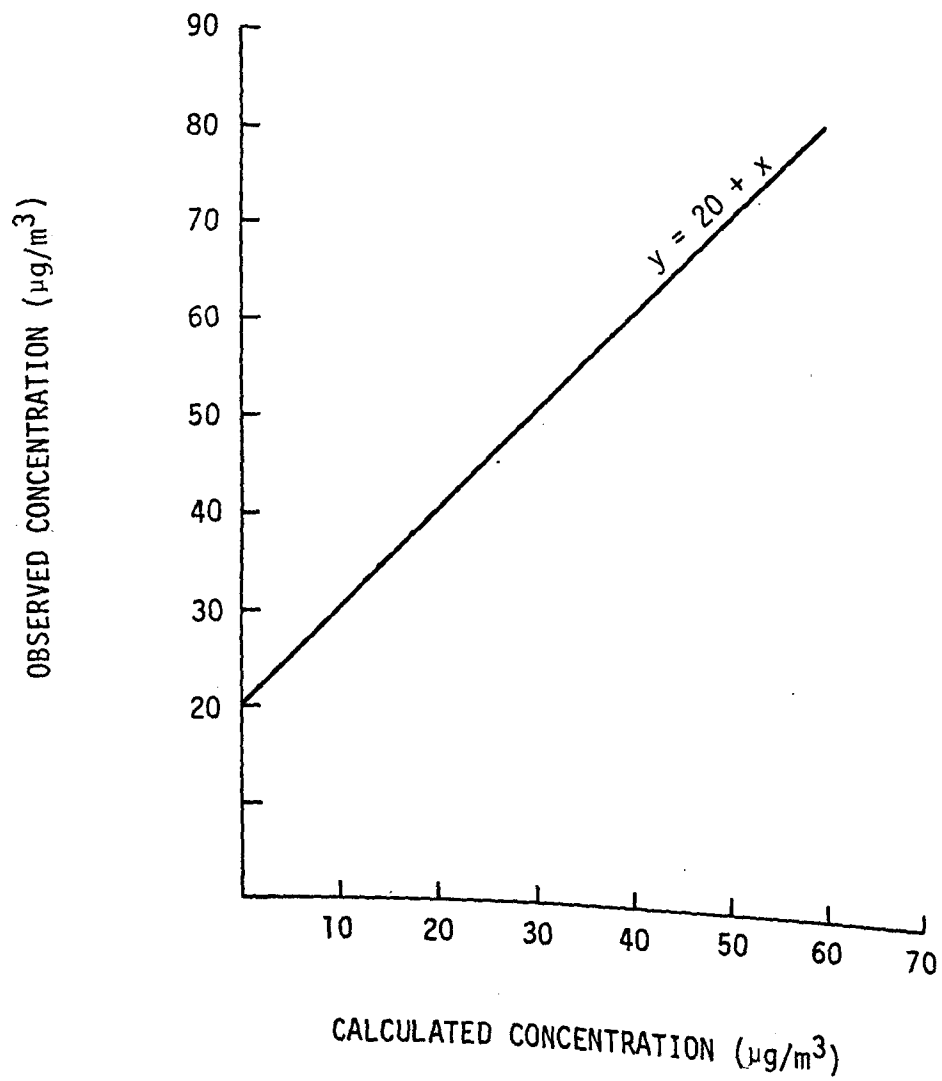


TABLE V-5
1975 CONCENTRATIONS AT THE MONITORING
STATIONS USING $Y = -5.6 + 1.95 X$
($\mu\text{g}/\text{m}^3$)

Station Name	Observed	Calculated
Bushy Park	49	49
Charleston Health Department	57	67
Meeting @ Pittsburgh Avenue	90	67
State Ports Authority	84	59
James Island	54	51
Mount Pleasant	34	43
Jenkins Street	61	65

CONCLUSIONS

1. The air quality analysis leaves some doubt as to the source receptor relationship in at least two areas in the AQMA, those in the vicinities of the Meeting Street and Ports Authority monitoring stations. In order to have had agreement between calculated and observed values at those stations, substantial low level sources would have been required near the monitoring stations. ⁽¹⁾
2. Subjectively, it is believed that the Meeting Street and Ports Authority stations are not representative of the general urban air quality in the area. Each may be impacted by localized fugitive dust sources which have not been adequately inventoried. Such sources have little effect on the air quality in the remainder of the AQMA.
3. However, there is insufficient evidence to define the extent of the impacted areas. A requirement exists to investigate further the air quality and the sources of pollution in those areas.

⁽¹⁾ Elevated sources or more extensive but less intense area sources would affect a much larger area and would not result in the large concentration gradient noted. For instance, the gradient between the Ports Authority and Jenkins Street station was approximately $16 \mu\text{g}/\text{m}^3\text{-km}$ in FY 75.

4. Outside the impacted areas, primary air quality standards have been attained and will be maintained throughout the planning period.
5. Outside the impacted areas annual average secondary standards have been attained and will be maintained throughout the planning period.
6. Twenty-four-hour secondary standards might be violated in some areas of the AQMA outside the impacted areas.
7. The changes in the projected emission inventories resulted in little affect on the calculated air quality over the receptor grid. Concentration appears to be more sensitive to anomalous meteorological conditions than to changed emissions.
8. The analysis showed that point sources contributed a maximum of $6 \mu\text{g}/\text{m}^3$ to calculated concentrations. Additional control of all point sources to affect a 50% reduction in emissions would result in a maximum improvement in air quality of $3 \mu\text{g}/\text{m}^3$. A more effective measure might be increased control of fugitive emissions from the point source facilities.
9. Without a major commitment of funds there can be little hope of effecting an improvement in air quality by greatly reducing area source emissions since the preponderance of those emissions results from unpaved roads, many of which are in very rural areas of the study area.

RECOMMENDATIONS

1. Charleston should remain an AQMA.
2. The State Implementation Plan should not be revised until the source-receptor relationship for the State Ports Authority and Meeting Street - Pittsburgh Avenue stations is better defined.
3. A program for tracking economic indicators to determine a viable relationship for projecting air quality should be implemented. Candidate indicators might include:
 - a. Industrial production data,
 - b. Local employment,

- c. County gasoline tax revenues,
 - d. Sales tax revenues, and
 - e. Traffic counts.
4. Fugitive dust sources should be inventoried on a microscale basis near the State Ports Authority and Meeting Street - Pittsburgh Avenue monitoring sites. Three methods might be used to inventory fugitive sources.
- a. Quasi-Stack Method. Particulate emissions from isolatable sources could be collected by a hood temporarily installed and transported to a regular cross-section where standard particulate stack sampling methods could be used.
 - b. Roof Monitor Method. Emission concentrations and flow rates are determined at a number of locations across the plane of a roof monitor opening to determine the emissions generated within a building.
 - c. Upwind-Downwind Method. Ambient concentrations taken upwind and downwind of a particular source can be used to back-calculate the fugitive source strength.
5. New sampling sites should be located to verify the maximum receptors determined by the model.
6. The State Ports Authority and Meeting Street - Pittsburgh Avenue sampling sites and the Jenkins Street site should be equipped with wind measuring devices. The meteorological data obtained at these sites should be compared with that from the airport to determine if Airport data adequately represent the wind regime at the sampling sites.
7. If the source-receptor relationship cannot be better defined, the following control strategies should be investigated for possible future implementation.
- a. More effective control of area sources of fugitive dust, in particular, construction activity.
 - b. A street cleaning program to limit the dust entrained from paved roads.
 - c. A transportation control program to limit the VMT in areas likely to impact the monitoring sites.

- d. A road paving program to eliminate unpaved roads in all but the most rural areas.
- e. An emissions density zoning program that would limit the growth of emission densities to those areas not adversely affecting the five maximum receptors.

APPENDIX A

SOURCE DATA

SOURCE NUMBER	SOURCE ID.		SOURCE LOCATION (KILOMETERS)		SOURCE AREA SQUARE KILOMETERS	ANNUAL SOURCE EMISSION RATE (TONS/DAY)		STACK DATA			
			HORIZONTAL	VERTICAL		SO2	PART	HT (FT)	DIAM (FT)	VEL (FPS)	TEMP (DEG.F)
1	420	1 1	592.1	3673.0	0.0	0.211	0.014	60.0	2.5	17.0	300.
2	420	2 1	577.9	3686.8	0.0	0.0	0.068	20.0	0.0	0.0	77.
3	420	2 2	577.9	3585.8	0.0	0.0	0.137	20.0	0.0	0.0	77.
4	420	2 3	577.9	3686.8	0.0	0.0	0.178	20.0	0.0	0.0	77.
5	420	2 4	577.9	3585.8	0.0	0.0	0.055	20.0	0.0	0.0	77.
6	420	3 1	594.2	3678.7	0.0	3.326	0.074	168.0	6.5	89.2	250.
7	420	3 2	594.2	3578.7	0.0	3.325	0.074	168.0	6.5	89.9	250.
8	420	3 3	594.2	3678.7	0.0	22.868	10.764	300.0	13.0	73.0	300.
9	420	3 4	594.2	3678.7	0.0	22.868	10.764	300.0	13.0	73.0	300.
10	420	5 1	553.4	3696.0	0.0	0.298	0.422	54.0	5.0	50.0	600.
11	420	6 1	599.9	3653.5	0.0	81.200	0.310	400.0	28.0	58.0	289.
12	420	7 1	600.0	3500.0	0.0	0.137	0.022	50.0	5.2	40.0	525.
13	420	8 1	592.6	3673.1	0.0	0.296	0.019	15.0	2.0	30.0	475.
14	420	9 1	600.0	3577.0	0.0	0.058	0.005	30.0	2.0	30.0	475.
15	420	9 2	600.0	3697.0	0.0	0.059	0.005	30.0	2.0	30.0	425.
16	560	2 1	596.7	3636.7	0.0	0.830	0.321	250.0	12.5	11.5	550.
17	560	2 2	596.7	3636.7	0.0	0.830	0.321	250.0	12.5	11.5	550.
18	560	2 3	596.7	3636.7	0.0	0.830	0.321	250.0	12.5	11.5	550.
19	560	2 4	596.7	3636.7	0.0	0.830	0.321	250.0	12.5	11.5	550.
20	560	2 5	596.7	3636.7	0.0	0.830	0.321	250.0	12.5	11.5	550.
21	560	2 6	596.7	3636.7	0.0	0.051	0.003	53.0	2.5	30.0	450.
22	560	2 7	596.7	3636.7	0.0	0.041	0.003	53.0	2.5	30.0	450.
23	560	2 12	596.7	3636.7	0.0	0.151	0.011	30.0	3.0	30.0	500.
24	560	2 13	596.7	3636.7	0.0	0.151	0.011	30.0	3.0	30.0	500.
25	560	2 14	596.7	3636.7	0.0	0.074	0.005	29.0	2.8	30.0	475.
26	560	2 15	596.7	3636.7	0.0	0.074	0.005	29.0	2.8	30.0	475.
27	560	2 18	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
28	560	2 19	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
29	560	2 20	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
30	560	2 21	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
31	560	2 24	596.7	3636.7	0.0	0.022	0.003	25.0	2.0	30.0	400.
32	560	4 1	592.3	3636.2	0.0	0.0	0.096	35.0	3.9	32.6	140.
33	560	5 1	584.0	3639.0	0.0	0.0	0.096	35.0	10.0	12.8	150.
34	560	6 1	593.4	3634.5	0.0	0.0	0.008	10.0	0.0	0.0	70.
35	560	6 2	593.4	3634.5	0.0	0.0	0.008	35.0	3.0	7.1	70.
36	560	7 1	597.4	3628.7	0.0	0.041	0.003	25.0	3.5	40.0	420.
37	560	7 2	597.4	3628.7	0.0	0.041	0.003	25.0	3.5	40.0	420.
38	560	7 3	597.4	3628.7	0.0	0.025	0.003	25.0	2.5	40.0	425.
39	560	8 1	596.4	3640.2	0.0	9.129	0.570	96.0	6.5	58.8	400.
40	560	8 2	596.4	3640.2	0.0	8.129	0.570	96.0	6.5	58.8	400.
41	560	8 3	596.4	3640.2	0.0	0.118	0.296	103.0	6.0	46.3	510.
42	560	8 4	596.4	3640.2	0.0	2.132	1.655	118.0	8.0	60.8	420.
43	560	8 5	596.4	3640.2	0.0	9.129	0.112	187.0	9.8	50.0	400.
44	560	8 6	596.4	3640.2	0.0	0.0	0.041	118.0	3.0	23.6	140.
45	560	8 7	596.4	3640.2	0.0	0.0	0.042	118.0	3.0	39.2	155.
46	560	8 8	596.4	3640.2	0.0	0.0	0.071	124.0	3.5	17.2	200.
47	560	8 9	596.4	3640.2	0.0	0.0	0.074	205.0	6.0	7.7	212.
48	560	8 10	596.4	3640.2	0.0	0.0	0.167	205.0	6.0	7.7	212.
49	560	8 11	596.4	3640.2	0.0	0.575	0.488	210.0	6.7	68.1	300.
50	560	8 12	596.4	3640.2	0.0	0.600	0.775	150.0	7.5	44.0	300.
51	560	8 13	596.4	3640.2	0.0	1.408	0.411	212.0	7.9	52.3	350.
52	560	8 14	596.4	3640.2	0.0	1.362	0.490	250.0	3.5	45.7	300.
53	560	8 15	596.4	3640.2	0.0	1.362	0.299	250.0	4.5	75.2	300.

54	560	816	596.4	3640.2	0.0	0.0	0.107	112.0	9.3	87.7	160.
55	560	817	596.4	3640.2	0.0	0.0	0.088	112.0	9.3	87.7	160.
56	560	818	596.4	3640.2	0.0	0.0	0.271	112.0	9.3	87.7	160.
57	560	819	596.4	3640.2	0.0	0.0	0.348	114.0	5.8	39.7	170.
58	560	820	596.4	3640.2	0.0	0.003	0.003	75.0	5.3	45.3	425.
59	560	9 1	592.7	3637.4	0.0	0.0	0.066	34.0	4.2	42.3	200.
60	550	11 1	595.8	3533.3	0.0	0.235	0.015	65.0	4.0	17.2	300.
61	560	11 2	596.9	3633.3	0.0	0.0	0.003	65.0	4.0	17.2	300.
62	550	11 3	595.8	3533.3	0.0	0.0	0.022	79.0	1.9	29.4	172.
63	560	12 1	593.4	3635.4	0.0	0.0	0.005	10.0	0.0	0.0	70.
64	550	13 2	597.9	3632.1	0.0	0.0	0.003	150.0	5.5	21.0	200.
65	560	14 1	598.4	3632.6	0.0	0.0	0.003	65.0	1.3	14.8	135.
66	560	14 2	598.4	3632.6	0.0	0.0	0.003	55.0	2.5	25.0	100.
67	560	14 3	598.4	3632.6	0.0	1.707	0.016	150.0	4.0	20.0	170.
68	560	14 4	598.4	3632.6	0.0	0.0	0.132	100.0	5.0	29.0	140.
69	550	14 5	598.4	3632.6	0.0	0.0	0.112	100.0	6.0	23.5	90.
70	560	15 1	598.5	3631.7	0.0	0.0	0.014	30.0	3.6	40.0	550.
71	550	15 2	598.5	3631.7	0.0	0.655	0.047	50.0	4.2	30.0	550.
72	560	15 3	599.5	3631.7	0.0	0.655	0.047	50.0	4.2	30.0	550.
73	550	15 4	598.5	3631.7	0.0	0.227	0.016	30.0	3.7	30.0	600.
74	560	15 6	598.5	3631.7	0.0	0.077	0.005	21.0	2.0	30.0	700.
75	560	16 1	595.8	3638.7	0.0	0.159	0.011	60.0	3.8	30.4	450.
76	560	16 2	595.8	3638.7	0.0	0.159	0.011	60.0	3.8	30.4	450.
77	560	16 3	595.8	3638.7	0.0	0.0	0.003	40.0	0.0	0.0	90.
78	560	16 4	595.8	3638.7	0.0	0.0	0.003	40.0	0.0	0.0	90.
79	560	18 1	598.4	3633.5	0.0	0.0	0.247	100.0	9.8	42.0	185.
80	550	18 2	598.4	3633.5	0.0	0.0	0.329	100.0	9.8	42.0	185.
81	560	19 1	590.0	3640.0	0.0	0.594	0.090	68.0	6.8	12.5	450.
82	550	19 2	590.0	3640.0	0.0	0.594	0.090	68.0	6.8	12.5	450.
83	560	19 3	590.0	3640.0	0.0	0.594	0.090	68.0	6.8	12.5	450.
84	560	20 1	598.8	3632.6	0.0	0.098	0.008	40.0	1.7	30.0	600.
85	560	20 2	599.8	3632.6	0.0	0.098	0.008	40.0	1.7	30.0	600.
86	560	20 3	598.8	3632.6	0.0	0.074	0.005	40.0	1.7	30.0	600.
87	560	21 1	595.7	3639.8	0.0	0.055	0.003	55.0	4.0	40.0	475.
88	560	21 2	595.7	3639.8	0.0	0.055	0.003	55.0	4.0	40.0	475.
89	560	21 3	595.7	3639.8	0.0	0.082	0.008	56.0	4.5	40.0	475.
90	560	21 4	595.7	3639.8	0.0	0.123	0.011	56.0	4.5	40.0	475.
91	560	22 1	596.1	3638.1	0.0	0.159	0.011	29.0	1.7	30.0	390.
92	560	23 1	593.1	3638.0	0.0	0.0	0.055	60.0	3.6	60.0	240.
93	550	24 1	598.4	3627.7	0.0	0.022	0.003	150.0	6.0	40.0	375.
94	560	24 2	598.4	3627.7	0.0	0.022	0.003	150.0	6.0	40.0	375.
95	550	24 3	598.4	3627.7	0.0	0.022	0.003	150.0	6.0	40.0	375.
96	560	25 1	598.4	3625.0	0.0	0.008	0.044	46.0	2.7	43.0	160.
97	560	26 1	593.6	3633.8	0.0	0.033	0.003	70.0	2.5	40.0	435.
98	560	26 2	593.6	3633.8	0.0	0.0	0.003	40.0	0.0	0.0	70.
99	560	26 3	593.6	3633.8	0.0	0.0	0.005	40.0	0.0	0.0	70.
100	560	26 4	593.6	3633.8	0.0	0.0	0.011	40.0	0.0	0.0	70.
101	560	26 5	593.6	3633.8	0.0	0.0	0.036	30.0	2.0	106.1	250.
102	550	26 7	593.6	3533.8	0.0	0.0	0.282	70.0	3.0	28.3	400.
103	560	27 2	599.1	3632.5	0.0	0.0	0.110	40.0	0.0	0.0	77.
104	550	27 3	599.1	3532.5	0.0	0.0	0.121	40.0	0.0	0.0	77.
105	560	27 4	599.1	3632.5	0.0	0.0	0.055	40.0	0.0	0.0	77.
106	550	28 3	600.5	3527.5	0.0	0.0	0.008	40.0	2.0	21.2	77.
107	560	29 1	596.9	3632.4	0.0	0.847	0.244	125.0	11.0	85.2	350.
108	560	29 2	596.9	3632.4	0.0	1.082	0.315	125.0	11.0	31.0	350.
109	560	29 3	596.9	3632.4	0.0	2.679	0.767	125.0	11.3	44.0	350.
110	560	30 1	568.5	3556.4	0.0	0.085	0.005	21.0	1.3	32.5	475.
111	550	30 2	598.5	3556.4	0.0	0.0	0.088	80.0	4.5	23.0	110.
112	560	33 1	598.5	3630.6	0.0	0.0	0.003	30.0	2.7	15.0	500.
113	560	34 1	596.3	3627.0	0.0	0.0	0.005	30.0	0.0	0.0	80.
114	560	35 1	598.1	3631.1	0.0	0.0	0.019	22.0	1.0	8.0	90.

115	560 36 1	558.6	3635.0	0.0	0.0	0.008	30.0 2.6 15.0 1200.
116	560 37 1	555.7	3638.6	0.0	0.074	0.005	29.0 2.3 30.0 450.
117	560 37 2	555.7	3638.6	0.0	0.074	0.005	29.0 2.3 30.0 450.
118	560 39 1	556.2	3638.8	0.0	0.022	0.003	31.0 2.3 20.0 300.
119	560 39 2	556.2	3638.8	0.0	0.022	0.003	33.0 2.3 20.0 300.
120	560 40 1	554.5	3631.1	0.0	0.0	0.036	15.0 1.0 28.2 30.
121	560 40 2	554.5	3631.1	0.0	0.0	0.025	40.0 0.0 0.0 77.
122	560 44 1	555.3	3635.7	0.0	0.005	0.003	150.0 3.0 45.0 425.
123	560 46 1	558.3	3627.5	0.0	0.077	0.005	125.0 5.0 10.0 375.
124	560 49 1	559.0	3626.8	0.0	0.011	0.003	165.0 3.0 10.0 175.
125	560 49 2	559.0	3626.8	0.0	0.011	0.003	165.0 3.0 10.0 175.
126	560 10 1	557.6	3631.7	0.0	0.0	0.057	75.0 4.0 38.2 150.
127	560 10 2	557.6	3631.7	0.0	0.0	0.132	88.0 3.5 49.9 90.
128	560 17 2	556.3	3633.9	0.0	0.0	0.098	28.0 2.5 40.0 175.
129	560 17 3	556.3	3633.9	0.0	0.0	0.153	26.0 1.0 52.2 220.
130	TRACT 1.00	559.4	3625.5	0.80	0.0	0.044	10.0 0.0 0.0 0.
131	TRACT 2.00	600.3	3626.6	0.70	0.0	0.060	10.0 0.0 0.0 0.
132	TRACT 3.00	600.4	3627.4	0.60	0.0	0.053	10.0 0.0 0.0 0.
133	TRACT 4.00	599.6	3627.5	0.60	0.0	0.063	10.0 0.0 0.0 0.
134	TRACT 5.00	558.9	3627.3	0.70	0.0	0.074	10.0 0.0 0.0 0.
135	TRACT 6.00	559.3	3627.9	0.90	0.0	0.142	10.0 0.0 0.0 0.
136	TRACT 7.00	559.4	3628.3	0.70	0.0	0.107	10.0 0.0 0.0 0.
137	TRACT 8.00	600.2	3628.1	0.60	0.0	0.056	10.0 0.0 0.0 0.
138	TRACT 9.00	600.0	3629.1	1.00	0.0	0.145	10.0 0.0 0.0 0.
139	TRACT 10.00	559.8	3628.6	0.40	0.0	0.073	10.0 0.0 0.0 0.
140	TRACT 11.00	557.9	3628.4	1.00	0.0	0.072	10.0 0.0 0.0 0.
141	TRACT 12.00	558.5	3623.2	0.40	0.0	0.074	10.0 0.0 0.0 0.
142	TRACT 13.00	599.3	3629.7	1.00	0.0	0.126	10.0 0.0 0.0 0.
143	TRACT 14.00	559.3	3630.4	2.20	0.0	0.169	10.0 0.0 0.0 0.
144	TRACT 15.00	558.1	3630.2	0.50	0.0	0.055	10.0 0.0 0.0 0.
145	TRACT 16.00	557.4	3630.4	0.80	0.0	0.011	10.0 0.0 0.0 0.
146	TRACT 17.00	557.7	3629.6	1.10	0.0	0.023	10.0 0.0 0.0 0.
147	TRACT 18.00	557.1	3628.3	0.80	0.0	0.098	10.0 0.0 0.0 0.
148	TRACT 19.01	593.9	3623.9	9.90	0.0	0.105	10.0 0.0 0.0 0.
149	TRACT 19.02	556.8	3624.6	8.10	0.0	0.177	10.0 0.0 0.0 0.
150	TRACT 20.01	600.3	3622.5	20.60	0.0	0.201	10.0 0.0 0.0 0.
151	TRACT 20.02	557.3	3622.1	5.60	0.0	0.141	10.0 0.0 0.0 0.
152	TRACT 20.03	556.2	3617.4	65.00	0.0	0.434	10.0 0.0 0.0 0.
153	TRACT 20.04	600.2	3614.2	10.30	0.0	0.052	10.0 0.0 0.0 0.
154	TRACT 21.01	586.1	3624.0	83.30	0.0	1.747	10.0 0.0 0.0 0.
155	TRACT 21.02	557.7	3614.3	162.70	0.0	3.920	10.0 0.0 0.0 0.
156	TRACT 22.00	575.6	3613.9	116.80	0.0	5.281	10.0 0.0 0.0 0.
157	TRACT 23.00	564.0	3605.3	195.70	0.0	6.557	10.0 0.0 0.0 0.
158	TRACT 24.00	561.3	3624.4	306.50	0.0	13.303	10.0 0.0 0.0 0.
159	TRACT 25.00	574.8	3627.2	171.30	0.0	3.974	10.0 0.0 0.0 0.
160	TRACT 26.01	582.6	3634.3	107.70	0.0	1.311	10.0 0.0 0.0 0.
161	TRACT 26.02	590.4	3631.6	14.80	0.0	0.173	10.0 0.0 0.0 0.
162	TRACT 26.03	554.6	3630.7	13.00	0.0	0.465	10.0 0.0 0.0 0.
163	TRACT 27.00	551.8	3629.0	6.40	0.0	0.271	10.0 0.0 0.0 0.
164	TRACT 28.00	551.7	3627.3	10.30	0.0	0.175	10.0 0.0 0.0 0.
165	TRACT 29.00	555.0	3628.0	2.60	0.0	0.133	10.0 0.0 0.0 0.
166	TRACT 30.00	555.2	3626.8	5.20	0.0	0.375	10.0 0.0 0.0 0.
167	TRACT 31.01	584.7	3647.4	44.70	0.0	0.516	10.0 0.0 0.0 0.
168	TRACT 31.02	589.5	3637.0	22.30	0.0	0.535	10.0 0.0 0.0 0.
169	TRACT 31.03	598.0	3647.4	21.90	0.0	0.437	10.0 0.0 0.0 0.
170	TRACT 31.04	590.0	3643.6	4.40	0.0	0.197	10.0 0.0 0.0 0.
171	TRACT 31.05	590.8	3641.5	5.60	0.0	0.363	10.0 0.0 0.0 0.
172	TRACT 32.00	589.0	3640.5	13.30	0.0	0.295	10.0 0.0 0.0 0.
173	TRACT 33.00	553.0	3638.4	4.70	0.0	0.408	10.0 0.0 0.0 0.
174	TRACT 34.00	555.8	3640.5	6.10	0.0	0.150	10.0 0.0 0.0 0.
175	TRACT 35.00	554.7	3639.3	3.40	0.0	0.049	10.0 0.0 0.0 0.

176	TRACT 36.00	595.0	3637.9	1.70	0.0	0.042	10.0	0.0	0.0	0.
177	TRACT 37.00	593.0	3635.7	2.70	0.0	0.217	10.0	0.0	0.0	0.
178	TRACT 38.00	593.6	3635.8	5.10	0.0	0.293	10.0	0.0	0.0	0.
179	TRACT 39.00	592.3	3634.4	9.30	0.0	0.149	10.0	0.0	0.0	0.
180	TRACT 40.00	594.9	3634.8	1.50	0.0	0.267	10.0	0.0	0.0	0.
191	TRACT 41.00	593.7	3635.7	0.90	0.0	0.132	10.0	0.0	0.0	0.
192	TRACT 42.00	597.1	3636.0	4.90	0.0	0.222	10.0	0.0	0.0	0.
183	TRACT 43.00	536.9	3634.9	1.80	0.0	0.140	10.0	0.0	0.0	0.
184	TRACT 44.00	597.0	3633.2	4.90	0.0	0.496	10.0	0.0	0.0	0.
185	TRACT 45.00	598.6	3632.3	5.10	0.0	0.200	10.0	0.0	0.0	0.
195	TRACT 46.01	612.8	3632.4	83.10	0.0	1.180	10.0	0.0	0.0	0.
187	TRACT 46.02	607.8	3632.9	80.80	0.0	1.578	10.0	0.0	0.0	0.
188	TRACT 47.00	607.2	3628.4	4.40	0.0	0.430	10.0	0.0	0.0	0.
193	TRACT 48.00	609.2	3625.4	4.20	0.0	0.027	10.0	0.0	0.0	0.
190	TRACT 49.00	616.8	3623.9	11.90	0.0	0.049	10.0	0.0	0.0	0.
191	TRACT 50.00	632.0	3657.8	755.20	0.0	23.094	10.0	0.0	0.0	0.
192	TRACT 201	572.7	3628.1	370.90	0.0	7.573	10.0	0.0	0.0	0.
193	TRACT 202	594.4	3698.4	367.80	0.0	8.561	10.0	0.0	0.0	0.
194	TRACT 203	604.3	3681.9	290.00	0.0	10.051	10.0	0.0	0.0	0.
195	TRACT 205	525.1	3672.2	177.10	0.0	3.236	10.0	0.0	0.0	0.
196	TRACT 206	593.8	3652.0	114.10	0.0	2.264	10.0	0.0	0.0	0.
197	TRACT 207	586.6	3656.2	355.60	0.0	6.932	10.0	0.0	0.0	0.
199	TRACT 209	591.9	3658.5	24.70	0.0	0.825	10.0	0.0	0.0	0.
199	TRACT 209	590.6	3642.3	10.90	0.0	0.149	10.0	0.0	0.0	0.
200	TRACT 210	594.2	3640.4	3.40	0.0	0.045	10.0	0.0	0.0	0.
201	JAMES TOWN	423.5	3511.4	579.30	0.0	20.953	10.0	0.0	0.0	0.
202	CORDESVILLE	604.5	3669.6	257.00	0.0	9.290	10.0	0.0	0.0	0.
203	HUGER-WANDON	410.0	3543.5	303.10	0.0	10.958	10.0	0.0	0.0	0.

CALIBRATION FOR CHARLESTON ACMA, SOUTH CAROLINA 11/11/76

RECEPTOR DATA

LOCATIONS TO BE USED AS RECEPTORS IN ADDITION TO THE 4 RECTANGULAR GRID LOCATIONS

RECEPTOR NUMBER	X-COORDINATE (KILOMETERS)	Y-COORDINATE (KILOMETERS)
5	598.1	3627.4
6	596.7	3622.1
7	605.4	3628.0
8	599.2	3647.7

CALIBRATION FOR CHARLESTON AQMA, SOUTH CAROLINA

11/11/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

MIXING DEPTH = 900. METERS
 AMBIENT TEMPERATURE = 65. DEGREES,FAHRENHEIT
 AMBIENT PPESSURE = 1013. MILLIBARS

STABILITY CLASS 1

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00034	.00034	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0
ENE	.0	.00034	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0
S	.0	.00069	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0
WSW	.0	.00034	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0
WNW	.00034	.00034	.0	.0	.0	.0
NW	.0	.00068	.0	.0	.0	.0
NNW	.0	.0	.0	.0	.0	.0

CALIBRATION FOR CHARLESTON AQMA, SOUTH CAROLINA

11/11/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 2

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00144	.00514	.00137	.0	.0	.0
NNE	.00096	.00342	.00171	.0	.0	.0
NE	.00048	.00171	.00137	.0	.0	.0
ENE	.00009	.00137	.00034	.0	.0	.0
E	.00002	.00034	.00034	.0	.0	.0
ESE	.00117	.00103	.0	.0	.0	.0
SE	.00002	.00034	.00034	.0	.0	.0
SSE	.00110	.0	.00137	.0	.0	.0
S	.00078	.00068	.00308	.0	.0	.0
SSW	.00078	.00068	.00171	.0	.0	.0
SW	.00085	.00171	.00308	.0	.0	.0
WSW	.00012	.00171	.00274	.0	.0	.0
W	.00096	.00342	.00240	.0	.0	.0
WNW	.00018	.00274	.00103	.0	.0	.0
NW	.00050	.00205	.00034	.0	.0	.0
NNW	.00082	.00137	.0	.0	.0	.0

CALIBRATION FOR CHARLESTON AQMA, SOUTH CAROLINA

11/11/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 3

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00225	.00548	.00822	.00034	.0	.0
NNE	.00086	.00171	.00822	.00137	.0	.0
NE	.00008	.00103	.00411	.00034	.0	.0
ENE	.00025	.00342	.00342	.00034	.0	.0
E	.00020	.00274	.00411	.00068	.0	.0
ESE	.00013	.00171	.00342	.0	.0	.0
SE	.00015	.00205	.00342	.00034	.0	.0
SSE	.00047	.00137	.00342	.00034	.0	.0
S	.00091	.00240	.00890	.00103	.0	.0
SSW	.00013	.00171	.00308	.00137	.0	.0
SW	.00020	.00274	.00582	.00103	.0	.0
WSW	.00023	.00308	.00788	.00068	.0	.0
W	.00015	.00205	.00719	.00205	.0	.0
WNW	.00013	.00171	.00445	.00068	.0	.00034
NW	.00150	.00034	.00342	.00034	.00034	.0
NNW	.00091	.00240	.00411	.00068	.0	.0

CALIBRATION FOR CHARLESTON AQMA, SOUTH CAROLINA

11/11/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 4

WIND DIRECTION	WINDSPEED CLASS					
	1	2	3	4	5	6
N	.00103	.00925	.02226	.01027	.00034	.0
NNE	.00052	.00479	.01712	.00959	.0	.0
NE	.00054	.00822	.01541	.00411	.0	.0
ENE	.00018	.00514	.00993	.00205	.0	.00034
E	.00053	.00514	.01370	.00582	.0	.00034
ESE	.00054	.00548	.01233	.00445	.0	.0
SE	.00016	.00479	.00993	.00377	.0	.0
SSE	.00045	.00274	.00753	.00342	.00034	.0
S	.00068	.00959	.01918	.01678	.00274	.0
SSW	.00047	.00342	.02089	.01610	.00068	.0
SW	.00051	.00445	.01541	.01301	.00103	.0
WSW	.00115	.00240	.01267	.01096	.00034	.0
W	.00058	.00651	.00959	.01747	.00068	.00034
WNW	.00117	.00308	.00479	.00925	.00068	.0
NW	.00046	.00308	.00445	.00616	.0	.0
NNW	.00122	.00445	.00411	.00445	.0	.0

CALIBRATION FOR CHARLESTON AQMA, SOUTH CAROLINA

11/11/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 5

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.01466	.03014	.00445	.0	.0	.0
NNE	.00693	.01438	.00514	.0	.0	.0
NE	.00543	.01096	.00103	.0	.0	.0
ENE	.00131	.00855	.0	.0	.0	.0
E	.00219	.00617	.00137	.0	.0	.0
ESE	.00371	.00787	.00137	.0	.0	.0
SE	.00579	.00924	.0	.0	.0	.0
SSE	.00396	.01198	.00103	.0	.0	.0
S	.01369	.03151	.00308	.0	.0	.0
SSW	.00809	.02226	.00445	.0	.0	.0
SW	.00509	.01061	.00411	.0	.0	.0
WSW	.00199	.00958	.00651	.0	.0	.0
W	.00281	.01061	.01301	.0	.0	.0
WNW	.00258	.00411	.00445	.0	.0	.0
NW	.00226	.00479	.00240	.0	.0	.0
NNW	.00845	.02363	.00171	.0	.0	.0

CALIBRATION FOR CHARLESTON AQHA, SOUTH CAROLINA 11/11/76

REGRESSION PARAMETERS FOR CALCULATED (X-AXIS) VS. OBSERVED (Y-AXIS) CONCENTRATIONS

<u>POLLUTANT</u>	<u>Y-INTERCEPT</u> <u>(MICROGRAMS/CU. METER)</u>	<u>SLOPE</u>	<u>REGRESSION COEFFICIENTS</u> <u>COMPUTED</u>	<u>5% CONF. LEVEL</u>
PARTICULATES	19.7	1.0186	0.806	0.878 POOR CORRELATION COEFFICIENTS NOT USED

CALIBRATION FOR CHARLESTON AQMA, SOUTH CAROLINA

11/11/76

CORRELATION DATA				
PARTICULATE MONITORING STATION	RECEPTOR LOCATION (KILOMETERS)		PARTICULATE CONCENTRATION (MICROGRAMS/CU. METER)	
	HORIZONTAL	VERTICAL	OBSERVED	CALCULATED
1	599.2	3647.7	48.	24.
2	598.1	3627.4	53.	35.
3	596.7	3622.1	48.	27.
4	605.4	3528.0	37.	22.
5	595.6	3639.5	57.	32.

CALIBRATION FOR CHARLESTON AQMA, SOUTH CAROLINA

11/11/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ	VERT	SO2	PARTICULATES
1	595.6	3638.5	0.	32.
2	595.6	3640.5	0.	30.
3	597.6	3538.5	0.	30.
4	597.6	3640.5	0.	29.
5	598.1	3527.4	0.	35.
6	596.7	3622.1	0.	27.
7	605.4	3628.0	0.	22.
8	599.2	3647.7	0.	24.

CALIBRATION FOR CHARLESTON ACMA, SOUTH CAROLINA

11/11/76

SOURCE CONTRIBUTIONS TO FIVE SELECTED RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	1	5	6	7	8
1	0.01 %	0.01 %	0.01 %	0.01 %	0.02 %
	0.0025	0.0025	0.0025	0.0023	0.0042
2	0.03 %	0.02 %	0.03 %	0.03 %	0.03 %
	0.0067	0.0015	0.0076	0.0062	0.0092
3	0.05 %	0.04 %	0.06 %	0.06 %	0.07 %
	0.0175	0.0151	0.0153	0.0125	0.0164
4	0.07 %	0.05 %	0.07 %	0.07 %	0.09 %
	0.0228	0.0195	0.0199	0.0162	0.0213
5	0.02 %	0.02 %	0.02 %	0.02 %	0.03 %
	0.0071	0.0051	0.0061	0.0050	0.0066
6	0.00 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0001	0.0011	0.0010	0.0009	0.0017
7	0.00 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0015	0.0011	0.0010	0.0009	0.0017
8	0.39 %	0.26 %	0.34 %	0.31 %	0.49 %
	0.1255	0.0557	0.0925	0.0684	0.1172
9	0.39 %	0.26 %	0.34 %	0.31 %	0.49 %
	0.1255	0.0557	0.0925	0.0684	0.1172
10	0.03 %	0.02 %	0.02 %	0.02 %	0.04 %
	0.0089	0.0055	0.0053	0.0054	0.0091
11	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0015	0.0016	0.0010	0.0007	0.0012
12	0.01 %	0.00 %	0.00 %	0.00 %	0.06 %
	0.0023	0.0015	0.0011	0.0009	0.0139
13	0.02 %	0.01 %	0.01 %	0.01 %	0.02 %
	0.0053	0.0035	0.0035	0.0031	0.0059
14	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0008	0.0007	0.0006	0.0007	0.0010
15	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0008	0.0007	0.0006	0.0007	0.0010
16	0.04 %	0.07 %	0.08 %	0.04 %	0.09 %
	0.0134	0.0237	0.0223	0.0099	0.0223
17	0.04 %	0.07 %	0.08 %	0.04 %	0.09 %
	0.0134	0.0237	0.0223	0.0099	0.0223
18	0.04 %	0.07 %	0.08 %	0.04 %	0.09 %
	0.0134	0.0237	0.0223	0.0099	0.0223
19	0.04 %	0.07 %	0.08 %	0.04 %	0.09 %
	0.0134	0.0237	0.0223	0.0099	0.0223
20	0.04 %	0.07 %	0.08 %	0.04 %	0.09 %
	0.0134	0.0237	0.0223	0.0099	0.0223
21	0.01 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0052	0.0015	0.0011	0.0003	0.0013

CALIBRATION FOR CHARLESTON AQMA, SOUTH CAROLINA

11/11/76

SOURCE CONTRIBUTIONS TO FIVE SELECTED RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	1	5	5	7	9
22	0.01 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0042	0.0015	0.0011	0.0003	0.0013
23	0.04 %	0.02 %	0.01 %	0.01 %	0.02 %
	0.0145	0.0057	0.0040	0.0012	0.0046
24	0.04 %	0.02 %	0.01 %	0.01 %	0.02 %
	0.0145	0.0057	0.0040	0.0012	0.0046
25	0.02 %	0.01 %	0.01 %	0.00 %	0.01 %
	0.0070	0.0026	0.0019	0.0005	0.0021
26	0.02 %	0.01 %	0.01 %	0.00 %	0.01 %
	0.0070	0.0025	0.0018	0.0005	0.0021
27	0.09 %	0.03 %	0.03 %	0.01 %	0.03 %
	0.0253	0.0099	0.0059	0.0020	0.0079
28	0.09 %	0.03 %	0.03 %	0.01 %	0.03 %
	0.0253	0.0099	0.0059	0.0020	0.0079
29	0.09 %	0.03 %	0.03 %	0.01 %	0.03 %
	0.0253	0.0099	0.0059	0.0020	0.0079
30	0.09 %	0.03 %	0.03 %	0.01 %	0.03 %
	0.0253	0.0099	0.0059	0.0020	0.0079
31	0.02 %	0.01 %	0.01 %	0.00 %	0.01 %
	0.0065	0.0022	0.0023	0.0005	0.0024
32	0.26 %	0.06 %	0.09 %	0.04 %	0.10 %
	0.0940	0.0230	0.0248	0.0086	0.0242
33	0.09 %	0.02 %	0.03 %	0.02 %	0.05 %
	0.0244	0.0066	0.0081	0.0049	0.0123
34	0.04 %	0.01 %	0.02 %	0.01 %	0.02 %
	0.0132	0.0046	0.0052	0.0015	0.0039
35	0.04 %	0.01 %	0.02 %	0.01 %	0.02 %
	0.0132	0.0046	0.0052	0.0015	0.0039
36	0.00 %	0.01 %	0.01 %	0.00 %	0.00 %
	0.0012	0.0049	0.0024	0.0011	0.0007
37	0.00 %	0.01 %	0.01 %	0.00 %	0.00 %
	0.0012	0.0049	0.0024	0.0011	0.0007
38	0.00 %	0.02 %	0.01 %	0.01 %	0.00 %
	0.0012	0.0083	0.0024	0.0011	0.0007
39	0.36 %	0.11 %	0.13 %	0.07 %	0.26 %
	0.1181	0.0405	0.0349	0.0150	0.0527
40	0.36 %	0.11 %	0.13 %	0.07 %	0.26 %
	0.1181	0.0405	0.0349	0.0150	0.0527
41	0.24 %	0.06 %	0.07 %	0.04 %	0.15 %
	0.0776	0.0225	0.0190	0.0082	0.0355
42	0.48 %	0.22 %	0.27 %	0.12 %	0.52 %
	0.1560	0.0790	0.0717	0.0274	0.1235

CALIBRATION FOR CHARLESTON ACMA, SOUTH CAROLINA

11/11/76

SOURCE CONTRIBUTIONS TO FIVE SELECTED RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 1	RECEPTOR 5	RECEPTOR 5	RECEPTOR 7	RECEPTOR 9
43	0.02 %	0.01 %	0.02 %	0.01 %	0.02 %
	0.0057	0.0052	0.0050	0.0015	0.0059
44	0.40 %	0.09 %	0.09 %	0.05 %	0.16 %
	0.1305	0.0212	0.0240	0.0107	0.0391
45	0.34 %	0.05 %	0.05 %	0.03 %	0.11 %
	0.1096	0.0181	0.0134	0.0057	0.0256
46	0.50 %	0.07 %	0.07 %	0.04 %	0.16 %
	0.1607	0.0262	0.0194	0.0037	0.0371
47	0.29 %	0.07 %	0.07 %	0.04 %	0.16 %
	0.0954	0.0267	0.0200	0.0032	0.0371
48	0.66 %	0.17 %	0.17 %	0.10 %	0.35 %
	0.2153	0.0602	0.0550	0.0224	0.0937
49	0.17 %	0.09 %	0.09 %	0.05 %	0.16 %
	0.0558	0.0280	0.0253	0.0106	0.0391
50	0.47 %	0.15 %	0.18 %	0.09 %	0.35 %
	0.1518	0.0555	0.0476	0.0205	0.0937
51	0.12 %	0.05 %	0.07 %	0.03 %	0.12 %
	0.0384	0.0159	0.0181	0.0059	0.0295
52	0.62 %	0.12 %	0.13 %	0.07 %	0.29 %
	0.2005	0.0449	0.0359	0.0154	0.0584
53	0.18 %	0.06 %	0.07 %	0.04 %	0.13 %
	0.0572	0.0221	0.0187	0.0081	0.0319
54	0.05 %	0.02 %	0.02 %	0.01 %	0.04 %
	0.0159	0.0060	0.0052	0.0020	0.0099
55	0.04 %	0.01 %	0.02 %	0.01 %	0.03 %
	0.0131	0.0049	0.0043	0.0017	0.0081
56	0.12 %	0.04 %	0.05 %	0.02 %	0.11 %
	0.0404	0.0151	0.0132	0.0052	0.0250
57	0.97 %	0.11 %	0.12 %	0.07 %	0.29 %
	0.3139	0.0406	0.0321	0.0154	0.0692
58	0.01 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0017	0.0003	0.0003	0.0001	0.0005
59	0.21 %	0.05 %	0.06 %	0.02 %	0.08 %
	0.0679	0.0166	0.0167	0.0054	0.0184
60	0.04 %	0.04 %	0.03 %	0.01 %	0.02 %
	0.0119	0.0129	0.0077	0.0024	0.0052
61	0.01 %	0.01 %	0.01 %	0.00 %	0.00 %
	0.0022	0.0024	0.0019	0.0004	0.0010
62	0.09 %	0.10 %	0.08 %	0.03 %	0.06 %
	0.0303	0.0349	0.0220	0.0056	0.0140
63	0.03 %	0.01 %	0.01 %	0.00 %	0.01 %
	0.0094	0.0029	0.0031	0.0002	0.0025

11/11/76

SOURCE CONTRIBUTIONS TO FIVE SELECTED RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 1	RECEPTOR 5	RECEPTOR 6	RECEPTOR 7	RECEPTOR 8
64	0.00 %	0.01 %	0.01 %	0.00 %	0.00 %
	0.0010	0.0035	0.0014	0.0005	0.0003
65	0.01 %	0.02 %	0.01 %	0.00 %	0.01 %
	0.0018	0.0067	0.0026	0.0010	0.0020
66	0.01 %	0.02 %	0.01 %	0.00 %	0.01 %
	0.0018	0.0067	0.0026	0.0010	0.0020
67	0.02 %	0.05 %	0.03 %	0.01 %	0.02 %
	0.0051	0.0116	0.0069	0.0029	0.0052
68	0.13 %	0.39 %	0.21 %	0.10 %	0.19 %
	0.0411	0.1423	0.0564	0.0230	0.0425
69	0.11 %	0.35 %	0.19 %	0.09 %	0.15 %
	0.0365	0.1280	0.0492	0.0210	0.0366
70	0.01 %	0.05 %	0.02 %	0.01 %	0.02 %
	0.0038	0.0118	0.0063	0.0025	0.0042
71	0.04 %	0.16 %	0.08 %	0.04 %	0.06 %
	0.0126	0.0593	0.0211	0.0085	0.0141
72	0.04 %	0.16 %	0.08 %	0.04 %	0.06 %
	0.0126	0.0593	0.0211	0.0085	0.0141
73	0.01 %	0.06 %	0.03 %	0.01 %	0.02 %
	0.0044	0.0210	0.0073	0.0030	0.0048
74	0.00 %	0.02 %	0.01 %	0.00 %	0.01 %
	0.0014	0.0072	0.0024	0.0011	0.0015
75	0.01 %	0.01 %	0.01 %	0.00 %	0.02 %
	0.0028	0.0042	0.0032	0.0011	0.0045
76	0.01 %	0.01 %	0.01 %	0.00 %	0.02 %
	0.0029	0.0042	0.0032	0.0011	0.0045
77	0.81 %	0.01 %	0.01 %	0.00 %	0.01 %
	0.2641	0.0024	0.0019	0.0006	0.0023
78	0.81 %	0.01 %	0.01 %	0.00 %	0.01 %
	0.2641	0.0024	0.0019	0.0006	0.0023
79	0.06 %	0.13 %	0.09 %	0.05 %	0.09 %
	0.0193	0.0416	0.0245	0.0122	0.0192
80	0.08 %	0.17 %	0.12 %	0.07 %	0.11 %
	0.0244	0.0631	0.0326	0.0163	0.0256
81	0.10 %	0.04 %	0.06 %	0.02 %	0.09 %
	0.0337	0.0141	0.0151	0.0055	0.0184
82	0.10 %	0.04 %	0.06 %	0.02 %	0.09 %
	0.0337	0.0141	0.0151	0.0055	0.0184
83	0.10 %	0.04 %	0.06 %	0.02 %	0.09 %
	0.0337	0.0141	0.0151	0.0055	0.0184
84	0.01 %	0.04 %	0.02 %	0.01 %	0.02 %
	0.0047	0.0161	0.0066	0.0026	0.0054

CALIBRATION FOR CHARLESTON ACMA, SOUTH CAROLINA

11/11/76

SOURCE CONTRIBUTIONS TO FIVE SELECTED RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	1	5	6	7	8
85	0.01 %	0.04 %	0.02 %	0.01 %	0.02 %
	0.0047	0.0161	0.0066	0.0026	0.0054
86	0.01 %	0.03 %	0.02 %	0.01 %	0.01 %
	0.0029	0.0100	0.0041	0.0016	0.0034
87	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0060	0.0010	0.0000	0.0000	0.0013
88	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0060	0.0010	0.0000	0.0000	0.0013
89	0.03 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0109	0.0000	0.0000	0.0000	0.0014
90	0.05 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0149	0.0000	0.0000	0.0000	0.0019
91	0.31 %	0.03 %	0.03 %	0.01 %	0.04 %
	0.1015	0.0096	0.0072	0.0020	0.0087
92	0.23 %	0.04 %	0.05 %	0.02 %	0.07 %
	0.0762	0.0144	0.0139	0.0041	0.0163
93	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0002	0.0000	0.0000	0.0000	0.0002
94	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0002	0.0000	0.0000	0.0000	0.0002
95	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0002	0.0000	0.0000	0.0000	0.0002
96	0.07 %	0.49 %	0.33 %	0.09 %	0.08 %
	0.0226	0.1779	0.0990	0.0202	0.0192
97	0.01 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0026	0.0000	0.0000	0.0000	0.0000
98	0.01 %	0.00 %	0.01 %	0.00 %	0.01 %
	0.0047	0.0017	0.0021	0.0006	0.0014
99	0.02 %	0.01 %	0.01 %	0.00 %	0.01 %
	0.0078	0.0029	0.0035	0.0010	0.0023
100	0.05 %	0.02 %	0.03 %	0.01 %	0.02 %
	0.0171	0.0064	0.0077	0.0021	0.0051
101	0.10 %	0.03 %	0.05 %	0.02 %	0.04 %
	0.0322	0.0111	0.0123	0.0039	0.0091
102	0.17 %	0.24 %	0.36 %	0.14 %	0.30 %
	0.2487	0.0860	0.0961	0.0301	0.0710
103	0.20 %	0.57 %	0.32 %	0.17 %	0.32 %
	0.0639	0.2087	0.0971	0.0378	0.0765
104	0.22 %	0.63 %	0.36 %	0.19 %	0.35 %
	0.0703	0.2256	0.0958	0.0416	0.0941
105	0.10 %	0.29 %	0.15 %	0.09 %	0.15 %
	0.0320	0.1044	0.0435	0.0189	0.0392

CALIBRATION FOR CHARLESTON ACMA, SOUTH CAROLINA
SOURCE CONTRIBUTIONS TO FIVE SELECTED RECEPTORS

11/11/76

ANNUAL PARTICULATES
MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	1	5	6	7	8
105	0.01 %	0.04 %	0.03 %	0.04 %	0.02 %
	0.0023	0.0154	0.0070	0.0090	0.0037
107	0.02 %	0.02 %	0.03 %	0.02 %	0.03 %
	0.0072	0.0015	0.0092	0.0049	0.0070
108	0.03 %	0.02 %	0.04 %	0.03 %	0.04 %
	0.0086	0.0090	0.0113	0.0060	0.0085
109	0.13 %	0.12 %	0.17 %	0.10 %	0.14 %
	0.0422	0.0440	0.0563	0.0222	0.0326
110	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0004	0.0004	0.0004	0.0004	0.0004
111	0.02 %	0.02 %	0.03 %	0.03 %	0.03 %
	0.0071	0.0074	0.0079	0.0065	0.0063
112	0.00 %	0.03 %	0.01 %	0.01 %	0.01 %
	0.0015	0.0167	0.0031	0.0011	0.0019
113	0.01 %	0.05 %	0.04 %	0.01 %	0.01 %
	0.0043	0.0222	0.0118	0.0024	0.0022
114	0.04 %	0.19 %	0.07 %	0.03 %	0.05 %
	0.0118	0.0493	0.0201	0.0069	0.0113
115	0.01 %	0.02 %	0.01 %	0.00 %	0.01 %
	0.0039	0.0058	0.0029	0.0011	0.0032
116	0.03 %	0.01 %	0.01 %	0.00 %	0.01 %
	0.0092	0.0020	0.0015	0.0005	0.0021
117	0.03 %	0.01 %	0.01 %	0.00 %	0.01 %
	0.0092	0.0020	0.0015	0.0005	0.0021
119	0.08 %	0.01 %	0.01 %	0.00 %	0.01 %
	0.0266	0.0025	0.0019	0.0006	0.0025
119	0.08 %	0.01 %	0.01 %	0.00 %	0.01 %
	0.0260	0.0025	0.0019	0.0006	0.0025
120	0.15 %	0.05 %	0.13 %	0.05 %	0.07 %
	0.0488	0.0182	0.0347	0.0102	0.0169
121	0.10 %	0.03 %	0.03 %	0.03 %	0.05 %
	0.0338	0.0126	0.0241	0.0071	0.0117
122	0.02 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0051	0.0012	0.0010	0.0003	0.0010
123	0.00 %	0.00 %	0.01 %	0.01 %	0.00 %
	0.0014	0.0001	0.0036	0.0022	0.0012
124	0.00 %	0.02 %	0.01 %	0.01 %	0.01 %
	0.0014	0.0055	0.0035	0.0020	0.0015
125	0.00 %	0.02 %	0.01 %	0.01 %	0.01 %
	0.0014	0.0053	0.0035	0.0020	0.0015
126	0.06 %	0.17 %	0.09 %	0.04 %	0.05 %
	0.0208	0.0633	0.0248	0.0085	0.0141

CALIBRATION FOR CHARLESTON ACMA, SOUTH CAROLINA

11/11/76

SOURCE CONTRIBUTIONS TO FIVE SELECTED RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	1	5	6	7	9
127	0.33 %	0.94 %	0.52 %	0.19 %	0.34 %
	0.1078	0.3413	0.1404	0.0406	0.0799
128	0.53 %	0.31 %	0.30 %	0.09 %	0.24 %
	0.1721	0.1122	0.0804	0.0205	0.0559
129	0.49 %	0.27 %	0.25 %	0.09 %	0.21 %
	0.1599	0.0586	0.0662	0.0203	0.0498
130	0.06 %	0.48 %	0.18 %	0.13 %	0.09 %
	0.0197	0.1755	0.0475	0.0235	0.0204
131	0.07 %	0.35 %	0.21 %	0.22 %	0.11 %
	0.0226	0.1285	0.0569	0.0490	0.0257
132	0.06 %	0.30 %	0.17 %	0.21 %	0.10 %
	0.0184	0.1085	0.0456	0.0474	0.0234
133	0.08 %	0.70 %	0.22 %	0.22 %	0.12 %
	0.0267	0.2534	0.0595	0.0491	0.0296
134	0.12 %	1.63 %	0.40 %	0.22 %	0.15 %
	0.0377	0.5541	0.1071	0.0487	0.0352
135	0.27 %	10.71 %	0.78 %	0.44 %	0.30 %
	0.0883	3.8951	0.2102	0.0985	0.0723
136	0.15 %	1.32 %	0.44 %	0.37 %	0.23 %
	0.0502	0.4715	0.1194	0.0920	0.0540
137	0.06 %	0.32 %	0.17 %	0.24 %	0.11 %
	0.0203	0.1176	0.0457	0.0542	0.0259
138	0.18 %	0.90 %	0.47 %	0.44 %	0.30 %
	0.0592	0.3255	0.1274	0.0999	0.0705
139	0.12 %	1.90 %	0.31 %	0.21 %	0.15 %
	0.0392	0.6569	0.0943	0.0459	0.0379
140	0.15 %	2.21 %	0.37 %	0.19 %	0.15 %
	0.0476	0.9020	0.0989	0.0417	0.0356
141	0.14 %	1.34 %	0.32 %	0.18 %	0.17 %
	0.0441	0.4866	0.0960	0.0412	0.0393
142	0.21 %	1.13 %	0.46 %	0.32 %	0.29 %
	0.0586	0.4121	0.1230	0.0702	0.0700
143	0.31 %	1.13 %	0.57 %	0.43 %	0.41 %
	0.1007	0.4109	0.1540	0.0948	0.0974
144	0.12 %	0.69 %	0.23 %	0.11 %	0.13 %
	0.0385	0.2457	0.0612	0.0249	0.0305
145	0.03 %	0.09 %	0.05 %	0.02 %	0.03 %
	0.0093	0.0342	0.0129	0.0044	0.0060
146	0.05 %	0.26 %	0.10 %	0.05 %	0.05 %
	0.0171	0.0537	0.0279	0.0105	0.0120
147	0.02 %	0.09 %	0.05 %	0.02 %	0.02 %
	0.0054	0.0331	0.0123	0.0037	0.0040

SOURCE CONTRIBUTIONS TO FIVE SELECTED RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	1	5	6	7	8
148	0.19 %	0.24 %	0.39 %	0.16 %	0.15 %
	0.0511	0.0875	0.1057	0.0351	0.0342
149	0.32 %	0.78 %	1.20 %	0.37 %	0.28 %
	0.1022	0.2822	0.3234	0.0929	0.0666
150	0.22 %	0.42 %	0.32 %	0.57 %	0.29 %
	0.0722	0.1525	0.0970	0.1218	0.0686
151	0.20 %	0.57 %	3.61 %	0.26 %	0.21 %
	0.0555	0.2070	0.9701	0.0519	0.0499
152	0.48 %	0.56 %	0.84 %	0.63 %	0.48 %
	0.1567	0.2034	0.2255	0.1399	0.1136
153	0.04 %	0.07 %	0.11 %	0.13 %	0.06 %
	0.0139	0.0242	0.0300	0.0290	0.0132
154	1.57 %	1.09 %	1.45 %	1.26 %	1.74 %
	0.5052	0.3945	0.3989	0.2811	0.4131
155	2.82 %	2.55 %	3.60 %	2.78 %	3.30 %
	0.9167	0.9257	0.9575	0.6123	0.7266
156	2.45 %	2.07 %	2.81 %	2.53 %	2.60 %
	0.7955	0.7524	0.7544	0.5528	0.6187
157	2.06 %	1.65 %	2.29 %	2.08 %	2.37 %
	0.6703	0.5337	0.6137	0.5542	0.5512
158	3.42 %	2.79 %	3.60 %	4.11 %	4.54 %
	1.1105	1.0110	0.9553	0.9149	1.0775
159	1.69 %	1.31 %	1.52 %	1.72 %	2.09 %
	0.5432	0.4755	0.4075	0.3832	0.4255
160	0.83 %	0.55 %	0.78 %	0.67 %	0.99 %
	0.2581	0.1584	0.2095	0.1487	0.2158
161	0.34 %	0.16 %	0.28 %	0.15 %	0.25 %
	0.1118	0.0595	0.0764	0.0340	0.0502
162	1.32 %	0.97 %	1.45 %	0.61 %	0.88 %
	0.4288	0.3533	0.3307	0.1352	0.2021
163	0.68 %	0.41 %	0.54 %	0.34 %	0.45 %
	0.2221	0.1485	0.1453	0.0751	0.1052
164	0.37 %	0.27 %	0.33 %	0.23 %	0.27 %
	0.1202	0.0597	0.0897	0.0502	0.0539
165	0.37 %	0.45 %	0.67 %	0.26 %	0.24 %
	0.1217	0.1529	0.1907	0.0571	0.0553
166	0.88 %	1.67 %	2.32 %	0.70 %	0.65 %
	0.2843	0.5089	0.5229	0.1551	0.1548
167	0.34 %	0.26 %	0.44 %	0.26 %	0.48 %
	0.1089	0.0937	0.1182	0.0595	0.1137
168	0.83 %	0.42 %	0.78 %	0.33 %	0.81 %
	0.2687	0.1521	0.2095	0.0736	0.1214

CALIBRATION FOR CHARLESTON ACMA, SOUTH CAROLINA

11/11/76

SOURCE CONTRIBUTIONS TO FIVE SELECTED RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 1	RECEPTOR 5	RECEPTOR 5	RECEPTOR 7	RECEPTOR 8
169	0.45 %	0.32 %	0.46 %	0.27 %	0.57 %
	0.1950	0.1173	0.1235	0.0532	0.1351
170	0.29 %	0.17 %	0.25 %	0.12 %	0.36 %
	0.0356	0.0501	0.0592	0.0273	0.0844
171	0.69 %	0.35 %	0.52 %	0.23 %	0.60 %
	0.2209	0.1270	0.1402	0.0505	0.1430
172	0.38 %	0.20 %	0.41 %	0.14 %	0.42 %
	0.1247	0.0720	0.1092	0.0320	0.0993
173	1.68 %	0.63 %	0.76 %	0.27 %	0.84 %
	0.5448	0.2295	0.2038	0.0505	0.1292
174	0.94 %	0.24 %	0.29 %	0.15 %	0.58 %
	0.3050	0.0821	0.0748	0.0335	0.1389
175	0.61 %	0.09 %	0.10 %	0.05 %	0.15 %
	0.1987	0.0313	0.0259	0.0106	0.0353
176	1.07 %	0.09 %	0.09 %	0.04 %	0.13 %
	0.3402	0.0316	0.0250	0.0081	0.0212
177	2.25 %	0.49 %	0.51 %	0.17 %	0.65 %
	0.7315	0.1783	0.1350	0.0370	0.1533
178	1.50 %	0.51 %	0.64 %	0.21 %	0.70 %
	0.4866	0.1845	0.1722	0.0453	0.1563
179	0.47 %	0.19 %	0.33 %	0.13 %	0.29 %
	0.1532	0.0643	0.0880	0.0293	0.0574
180	2.09 %	0.70 %	0.72 %	0.23 %	0.66 %
	0.6758	0.2529	0.1928	0.0509	0.1550
181	1.51 %	0.36 %	0.36 %	0.11 %	0.37 %
	0.4886	0.1294	0.0956	0.0250	0.0872
182	1.09 %	0.65 %	0.60 %	0.30 %	0.66 %
	0.3539	0.2348	0.1619	0.0574	0.1550
183	0.78 %	0.46 %	0.43 %	0.13 %	0.40 %
	0.2520	0.1658	0.1162	0.0297	0.0955
184	1.89 %	2.01 %	1.69 %	0.55 %	1.22 %
	0.6057	0.7302	0.4530	0.1216	0.2304
185	0.51 %	0.92 %	0.56 %	0.31 %	0.52 %
	0.1655	0.3350	0.1512	0.0700	0.1235
186	0.43 %	0.56 %	0.75 %	1.63 %	0.92 %
	0.1579	0.2033	0.2023	0.3625	0.1958
187	0.96 %	1.11 %	1.49 %	3.35 %	1.67 %
	0.3102	0.4042	0.4006	0.7475	0.3968
188	0.33 %	0.35 %	0.40 %	3.03 %	0.43 %
	0.1061	0.1263	0.1062	0.6763	0.1010
189	0.02 %	0.02 %	0.02 %	0.13 %	0.02 %
	0.0060	0.0013	0.0055	0.0284	0.0053

CALIBRATION FOR CHARLESTON ACMA, SOUTH CAROLINA

11/11/76

SOURCE CONTRIBUTIONS TO FIVE SELECTED RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 1	RECEPTOR 5	RECEPTOR 6	RECEPTOR 7	RECEPTOR 8
190	0.02 %	0.02 %	0.02 %	0.05 %	0.03 %
	0.0074	0.0057	0.0062	0.0109	0.0072
191	3.86 %	4.31 %	5.93 %	8.64 %	5.59 %
	1.2542	1.5674	1.5918	1.9260	1.3272
192	2.47 %	2.14 %	3.04 %	2.63 %	2.68 %
	0.8027	0.7757	0.8162	0.5869	0.6363
193	3.79 %	2.86 %	3.73 %	4.18 %	5.50 %
	1.2313	1.0410	1.0016	0.9310	1.3069
194	5.04 %	3.92 %	4.79 %	7.25 %	7.70 %
	1.6372	1.4238	1.2857	1.6147	1.8302
195	1.94 %	1.37 %	1.73 %	1.94 %	2.32 %
	0.6289	0.4990	0.4641	0.4323	0.5510
196	2.11 %	1.43 %	1.81 %	1.98 %	2.93 %
	0.6841	0.5204	0.4861	0.4412	0.6972
197	3.62 %	3.00 %	3.97 %	3.59 %	2.80 %
	1.1747	1.0915	1.0662	0.8007	0.6653
198	1.60 %	0.85 %	1.00 %	0.65 %	1.41 %
	0.5201	0.3052	0.2679	0.1444	0.3360
199	0.23 %	0.15 %	0.20 %	0.10 %	0.26 %
	0.0758	0.0544	0.0549	0.0233	0.0628
200	0.30 %	0.07 %	0.09 %	0.04 %	0.12 %
	0.0967	0.0245	0.0221	0.0091	0.0281
201	5.51 %	5.38 %	7.15 %	10.62 %	8.19 %
	1.7900	1.9554	1.9192	2.3656	1.9460
202	5.20 %	4.53 %	5.47 %	8.11 %	8.58 %
	1.6896	1.4474	1.4701	1.8063	2.0377
203	4.91 %	5.11 %	6.40 %	10.22 %	3.88 %
	1.5950	1.8565	1.7194	2.2782	0.9227
BACK- GROUND	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
	0.	0.	0.	0.	0.
TOTAL	100.1 %	100.1 %	100.0 %	100.0 %	100.0 %
	32.4902	36.3643	24.8602	22.2897	23.7662

AQDM RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

SOURCE DATA

SOURCE NUMBER	SOURCE ID.		SOURCE LOCATION (KILOMETERS)		SOURCE AREA SQUARE KILOMETERS	ANNUAL SOURCE EMISSION RATE (TONS/DAY)		STACK DATA			
			HORIZONTAL	VERTICAL		SO2	PART	HT (FT)	DIAM (FT)	VFL (FPS)	TEMP (DEG.F)
1	420	1 1	592.1	3673.0	0.0	0.211	0.014	60.0	2.5	17.0	300.
2	420	2 1	577.9	3686.8	0.0	0.0	0.068	20.0	0.0	0.0	77.
3	420	2 2	577.9	3696.8	0.0	0.0	0.137	20.0	0.0	0.0	77.
4	420	2 3	577.9	3686.8	0.0	0.0	0.178	20.0	0.0	0.0	77.
5	420	2 4	577.9	3686.8	0.0	0.0	0.055	20.0	0.0	0.0	77.
6	420	3 1	594.2	3678.7	0.0	3.126	0.074	168.0	6.5	89.9	250.
7	420	3 2	594.2	3678.7	0.0	3.326	0.074	168.0	6.5	89.9	250.
8	420	3 3	594.2	3678.7	0.0	22.868	10.764	300.0	13.0	73.0	300.
9	420	3 4	594.2	3678.7	0.0	22.858	10.754	300.0	13.0	73.0	300.
10	420	5 1	593.4	3676.0	0.0	0.298	0.422	54.0	5.0	50.0	600.
11	420	6 1	599.9	3653.5	0.0	81.200	0.310	400.0	28.0	58.0	289.
12	420	7 1	600.0	3650.0	0.0	0.197	0.022	50.0	5.2	40.0	525.
13	420	8 1	592.6	3673.1	0.0	0.295	0.019	15.0	2.0	30.0	475.
14	420	9 1	600.0	3697.0	0.0	0.058	0.005	30.0	2.0	30.0	475.
15	420	9 2	600.0	3627.0	0.0	0.058	0.005	30.0	2.0	30.0	425.
16	560	2 1	596.7	3636.7	0.0	0.830	0.321	250.0	12.5	11.5	550.
17	560	2 2	596.7	3636.7	0.0	0.830	0.321	250.0	12.5	11.5	550.
18	560	2 3	596.7	3636.7	0.0	0.830	0.321	250.0	12.5	11.5	550.
19	560	2 4	596.7	3636.7	0.0	0.830	0.321	250.0	12.5	11.5	550.
20	560	2 5	596.7	3636.7	0.0	0.830	0.321	250.0	12.5	11.5	550.
21	560	2 6	596.7	3636.7	0.0	0.041	0.003	53.0	2.5	30.0	450.
22	560	2 7	596.7	3636.7	0.0	0.041	0.003	53.0	2.5	30.0	450.
23	560	212	596.7	3636.7	0.0	0.151	0.011	30.0	3.0	30.0	500.
24	560	213	596.7	3636.7	0.0	0.151	0.011	30.0	3.0	30.0	500.
25	560	214	596.7	3636.7	0.0	0.074	0.005	29.0	2.8	30.0	475.
26	560	215	596.7	3636.7	0.0	0.074	0.005	29.0	2.8	30.0	475.
27	560	218	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
28	560	219	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
29	560	220	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
30	560	221	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
31	560	224	596.7	3636.7	0.0	0.022	0.003	25.0	2.0	30.0	400.
32	560	4 1	592.3	3636.2	0.0	0.0	0.096	35.0	3.9	32.6	140.
33	560	5 1	584.0	3628.0	0.0	0.0	0.096	35.0	10.0	12.8	150.
34	560	6 1	593.4	3634.5	0.0	0.0	0.008	10.0	0.0	0.0	70.
35	560	6 2	593.4	3634.5	0.0	0.0	0.008	35.0	3.0	7.1	70.
36	560	7 1	597.4	3628.7	0.0	0.041	0.003	25.0	3.5	40.0	420.
37	560	7 2	597.4	3628.7	0.0	0.041	0.003	25.0	3.5	40.0	420.
38	560	7 3	597.4	3628.7	0.0	0.025	0.003	25.0	2.5	40.0	425.
39	560	8 1	596.4	3640.2	0.0	9.129	0.570	96.0	6.5	58.8	400.
40	560	8 2	596.4	3640.2	0.0	9.129	0.570	96.0	6.5	58.8	400.
41	560	8 3	596.4	3640.2	0.0	0.118	0.296	103.0	6.0	46.3	510.
42	560	8 4	596.4	3640.2	0.0	2.132	1.555	118.0	8.0	50.8	420.
43	560	8 5	596.4	3640.2	0.0	9.129	0.112	187.0	9.8	50.0	400.
44	560	8 6	596.4	3640.2	0.0	0.0	0.041	118.0	3.0	23.6	140.
45	560	8 7	596.4	3640.2	0.0	0.0	0.049	118.0	3.0	39.2	155.
46	560	8 8	596.4	3640.2	0.0	0.0	0.071	124.0	3.5	17.2	200.
47	560	8 9	596.4	3640.2	0.0	0.0	0.074	205.0	6.0	7.7	212.
48	560	810	596.4	3640.2	0.0	0.0	0.167	205.0	6.0	7.7	212.
49	560	811	596.4	3640.2	0.0	0.575	0.489	210.0	6.7	69.1	300.
50	560	812	596.4	3640.2	0.0	0.600	0.775	150.0	7.5	44.0	300.
51	560	813	596.4	3640.2	0.0	1.409	0.911	212.0	7.8	52.3	350.
52	560	814	596.4	3640.2	0.0	1.362	0.490	250.0	3.5	45.7	300.
53	560	815	596.4	3640.2	0.0	1.352	0.299	250.0	4.5	75.2	300.

54	560	816	596.4	3640.2	0.0	0.0	0.107	112.0	9.3	87.7	160.
55	560	817	596.4	3640.2	0.0	0.0	0.089	112.0	9.3	87.7	160.
56	560	818	596.4	3640.2	0.0	0.0	0.271	112.0	9.3	87.7	160.
57	560	819	596.4	3640.2	0.0	0.0	0.348	114.0	5.8	32.7	170.
58	560	820	596.4	3640.2	0.0	0.003	0.003	75.0	5.3	45.3	425.
59	560	9 1	592.7	3637.4	0.0	0.0	0.055	34.0	4.2	42.3	200.
60	560	11 1	595.8	3633.3	0.0	0.236	0.016	65.0	4.0	17.2	300.
61	560	11 2	596.8	3633.3	0.0	0.0	0.003	55.0	4.0	17.2	300.
62	560	11 3	595.8	3633.3	0.0	0.0	0.022	79.0	1.9	29.4	172.
63	560	12 1	593.4	3635.4	0.0	0.0	0.005	10.0	0.0	0.0	70.
64	560	13 2	597.9	3632.1	0.0	0.0	0.003	150.0	5.5	21.0	200.
65	560	14 1	598.4	3632.6	0.0	0.0	0.003	65.0	1.3	14.8	135.
66	560	14 2	598.4	3632.6	0.0	0.0	0.003	55.0	2.5	25.0	100.
67	560	14 3	598.4	3632.6	0.0	1.707	0.016	150.0	4.0	20.0	170.
68	560	14 4	598.4	3632.6	0.0	0.0	0.132	100.0	5.0	29.0	140.
69	560	14 5	598.4	3632.6	0.0	0.0	0.112	100.0	6.0	29.5	90.
70	560	15 1	598.5	3631.7	0.0	0.0	0.014	30.0	3.6	40.0	550.
71	560	15 2	598.5	3631.7	0.0	0.655	0.047	50.0	4.2	30.0	550.
72	560	15 3	598.5	3631.7	0.0	0.655	0.047	50.0	4.2	30.0	550.
73	560	15 4	598.5	3631.7	0.0	0.227	0.016	30.0	3.7	30.0	600.
74	560	15 6	598.5	3631.7	0.0	0.077	0.005	21.0	2.0	30.0	700.
75	560	16 1	595.8	3639.7	0.0	0.153	0.011	50.0	3.8	30.5	450.
76	560	16 2	595.8	3638.7	0.0	0.159	0.011	60.0	3.8	30.4	450.
77	560	16 3	595.8	3638.7	0.0	0.0	0.003	40.0	0.0	0.0	90.
78	560	16 4	595.8	3638.7	0.0	0.0	0.003	40.0	0.0	0.0	90.
79	560	18 1	598.4	3633.5	0.0	0.0	0.247	100.0	9.8	42.0	185.
80	560	18 2	598.4	3633.5	0.0	0.0	0.329	100.0	9.8	42.0	185.
81	560	19 1	590.0	3640.0	0.0	0.584	0.090	68.0	6.8	12.5	450.
82	560	19 2	590.0	3640.0	0.0	0.584	0.090	68.0	6.8	12.5	450.
83	560	19 3	590.0	3640.0	0.0	0.584	0.090	68.0	6.8	12.5	450.
84	560	20 1	598.8	3632.5	0.0	0.088	0.008	40.0	1.7	30.0	600.
85	560	20 2	598.8	3632.5	0.0	0.088	0.008	40.0	1.7	30.0	600.
86	560	20 3	598.8	3632.5	0.0	0.074	0.005	40.0	1.7	30.0	600.
87	560	21 1	595.7	3639.8	0.0	0.055	0.003	55.0	4.0	40.0	475.
88	560	21 2	595.7	3639.8	0.0	0.055	0.003	55.0	4.0	40.0	475.
89	560	21 3	595.7	3639.8	0.0	0.092	0.008	56.0	4.5	40.0	475.
90	560	21 4	595.7	3639.8	0.0	0.123	0.011	55.0	4.5	40.0	475.
91	560	22 1	596.1	3638.1	0.0	0.159	0.011	29.0	1.7	30.0	390.
92	560	23 1	593.1	3638.0	0.0	0.0	0.055	60.0	3.6	50.0	240.
93	560	24 1	598.4	3627.7	0.0	0.022	0.003	150.0	6.0	40.0	375.
94	560	24 2	598.4	3627.7	0.0	0.022	0.003	150.0	6.0	40.0	375.
95	560	24 3	598.4	3627.7	0.0	0.022	0.003	150.0	6.0	40.0	375.
96	560	25 1	599.4	3625.0	0.0	0.009	0.044	46.0	2.7	43.0	160.
97	560	26 1	593.6	3633.8	0.0	0.033	0.003	70.0	2.5	40.0	435.
98	560	26 2	593.6	3633.8	0.0	0.0	0.003	40.0	0.0	0.0	70.
99	560	26 3	593.6	3633.8	0.0	0.0	0.005	40.0	0.0	0.0	70.
100	560	26 4	593.6	3633.8	0.0	0.0	0.011	40.0	0.0	0.0	70.
101	560	26 5	593.6	3633.8	0.0	0.0	0.036	30.0	2.0	106.1	250.
102	560	25 7	593.6	3633.8	0.0	0.0	0.282	70.0	3.0	28.3	400.
103	560	27 2	599.1	3632.5	0.0	0.0	0.110	40.0	0.0	0.0	77.
104	560	27 3	599.1	3632.5	0.0	0.0	0.121	40.0	0.0	0.0	77.
105	560	27 4	599.1	3632.5	0.0	0.0	0.055	40.0	0.0	0.0	77.
106	560	28 3	600.5	3627.5	0.0	0.0	0.009	40.0	2.0	21.2	77.
107	560	29 1	596.9	3632.4	0.0	0.847	0.244	125.0	11.0	85.2	350.
108	560	29 2	596.9	3632.4	0.0	1.082	0.315	125.0	11.0	91.0	350.
109	560	29 3	596.9	3632.4	0.0	2.679	0.767	125.0	11.3	44.0	350.
110	560	30 1	568.5	3555.4	0.0	0.085	0.005	21.0	1.3	32.5	475.
111	560	30 2	568.5	3555.4	0.0	0.0	0.088	30.0	4.5	23.0	110.
112	560	33 1	593.5	3630.5	0.0	0.0	0.003	30.0	2.7	15.0	500.
113	560	34 1	596.3	3627.0	0.0	0.0	0.005	30.0	0.0	0.0	80.
114	560	35 1	599.1	3631.1	0.0	0.0	0.019	22.0	1.0	8.0	90.

115	560	36 1	599.6	3635.0	0.0	0.0	0.008	30.0	2.6	15.0	1200.
116	560	37 1	595.7	3638.6	0.0	0.074	0.005	29.0	2.3	30.0	450.
117	560	37 2	595.7	3639.6	0.0	0.074	0.005	29.0	2.3	30.0	450.
118	560	39 1	596.2	3638.8	0.0	0.022	0.003	31.0	2.3	20.0	300.
119	560	39 2	596.2	3639.8	0.0	0.022	0.003	33.0	2.3	20.0	300.
120	560	40 1	594.5	3631.1	0.0	0.0	0.026	15.0	1.0	28.2	80.
121	560	40 2	594.5	3631.1	0.0	0.0	0.025	40.0	0.0	0.0	77.
122	560	44 1	595.3	3635.7	0.0	0.005	0.003	150.0	3.0	45.0	425.
123	560	46 1	598.3	3627.5	0.0	0.077	0.005	125.0	5.0	10.0	375.
124	560	49 1	599.0	3626.9	0.0	0.011	0.003	165.0	3.0	10.0	175.
125	560	49 2	599.0	3626.8	0.0	0.011	0.003	165.0	3.0	10.0	175.
126	560	10 1	597.6	3631.7	0.0	0.0	0.047	75.0	4.0	39.2	140.
127	560	10 2	597.6	3631.7	0.0	0.0	0.132	88.0	3.5	49.9	90.
128	560	17 2	596.3	3633.9	0.0	0.0	0.088	28.0	2.5	40.0	175.
129	560	17 3	596.3	3633.9	0.0	0.0	0.153	26.0	3.0	55.2	250.
130	TRACT	1.00	599.4	3626.6	0.80	0.0	0.044	10.0	0.0	0.0	0.
131	TRACT	2.00	600.3	3626.6	0.70	0.0	0.060	10.0	0.0	0.0	0.
132	TRACT	3.00	599.4	3627.4	0.50	0.0	0.053	10.0	0.0	0.0	0.
133	TRACT	4.00	599.6	3627.5	0.60	0.0	0.063	10.0	0.0	0.0	0.
134	TRACT	5.00	599.9	3627.3	0.70	0.0	0.074	10.0	0.0	0.0	0.
135	TRACT	6.00	598.3	3627.9	0.90	0.0	0.149	10.0	0.0	0.0	0.
136	TRACT	7.00	599.4	3629.3	0.70	0.0	0.107	10.0	0.0	0.0	0.
137	TRACT	8.00	600.2	3628.1	0.60	0.0	0.056	10.0	0.0	0.0	0.
138	TRACT	9.00	600.0	3629.1	1.00	0.0	0.145	10.0	0.0	0.0	0.
139	TRACT	10.00	598.8	3628.6	0.40	0.0	0.073	10.0	0.0	0.0	0.
140	TRACT	11.00	597.9	3628.4	1.00	0.0	0.072	10.0	0.0	0.0	0.
141	TRACT	12.00	598.5	3623.2	0.40	0.0	0.074	10.0	0.0	0.0	0.
142	TRACT	13.00	599.3	3629.7	1.00	0.0	0.126	10.0	0.0	0.0	0.
143	TRACT	14.00	599.3	3630.4	2.20	0.0	0.169	10.0	0.0	0.0	0.
144	TRACT	15.00	599.1	3630.2	0.50	0.0	0.055	10.0	0.0	0.0	0.
145	TRACT	16.00	597.4	3630.4	0.80	0.0	0.011	10.0	0.0	0.0	0.
146	TRACT	17.00	597.7	3629.6	1.10	0.0	0.023	10.0	0.0	0.0	0.
147	TRACT	18.00	597.1	3628.9	0.80	0.0	0.008	10.0	0.0	0.0	0.
148	TRACT	19.01	593.9	3623.9	9.90	0.0	0.105	10.0	0.0	0.0	0.
149	TRACT	19.02	596.8	3624.6	8.10	0.0	0.177	10.0	0.0	0.0	0.
150	TRACT	20.01	600.3	3622.3	20.00	0.0	0.201	10.0	0.0	0.0	0.
151	TRACT	20.02	597.3	3622.1	5.60	0.0	0.141	10.0	0.0	0.0	0.
152	TRACT	20.03	595.2	3617.4	65.80	0.0	0.434	10.0	0.0	0.0	0.
153	TRACT	20.04	600.9	3614.2	10.30	0.0	0.052	10.0	0.0	0.0	0.
154	TRACT	21.01	595.1	3624.0	83.30	0.0	1.747	10.0	0.0	0.0	0.
155	TRACT	21.02	587.7	3614.3	162.70	0.0	3.920	10.0	0.0	0.0	0.
156	TRACT	22.00	575.6	3613.9	116.80	0.0	5.281	10.0	0.0	0.0	0.
157	TRACT	23.00	564.0	3605.3	195.70	0.0	6.557	10.0	0.0	0.0	0.
158	TRACT	24.00	561.3	3624.4	306.50	0.0	13.303	10.0	0.0	0.0	0.
159	TRACT	25.00	574.8	3627.2	171.30	0.0	3.274	10.0	0.0	0.0	0.
160	TRACT	26.01	582.6	3634.3	107.70	0.0	1.311	10.0	0.0	0.0	0.
161	TRACT	26.02	590.4	3631.6	14.80	0.0	0.173	10.0	0.0	0.0	0.
162	TRACT	26.03	594.6	3630.7	13.00	0.0	0.465	10.0	0.0	0.0	0.
163	TRACT	27.00	591.8	3629.0	6.40	0.0	0.271	10.0	0.0	0.0	0.
164	TRACT	28.00	591.7	3627.3	10.30	0.0	0.175	10.0	0.0	0.0	0.
165	TRACT	29.00	595.0	3629.0	2.50	0.0	0.133	10.0	0.0	0.0	0.
166	TRACT	30.00	596.2	3626.9	5.20	0.0	0.375	10.0	0.0	0.0	0.
167	TRACT	31.01	584.7	3647.4	44.70	0.0	0.516	10.0	0.0	0.0	0.
168	TRACT	31.02	589.5	3637.0	22.50	0.0	0.536	10.0	0.0	0.0	0.
169	TRACT	31.03	588.0	3647.4	21.90	0.0	0.437	10.0	0.0	0.0	0.
170	TRACT	31.04	590.0	3643.6	4.40	0.0	0.197	10.0	0.0	0.0	0.
171	TRACT	31.05	590.8	3641.5	5.60	0.0	0.363	10.0	0.0	0.0	0.
172	TRACT	32.00	589.0	3640.6	13.30	0.0	0.295	10.0	0.0	0.0	0.
173	TRACT	33.00	593.0	3638.4	4.70	0.0	0.408	10.0	0.0	0.0	0.
174	TRACT	34.00	593.8	3640.3	3.10	0.0	0.140	10.0	0.0	0.0	0.
175	TRACT	35.00	594.1	3639.3	3.40	0.0	0.049	10.0	0.0	0.0	0.

176	TRACT 36.00	595.0	3637.9	1.70	0.0	0.042	10.0	0.0	0.0	0.
177	TRACT 37.00	595.0	3636.7	2.70	0.0	0.217	10.0	0.0	0.0	0.
178	TRACT 38.00	593.6	3635.8	5.10	0.0	0.293	10.0	0.0	0.0	0.
179	TRACT 39.00	592.3	3634.4	8.30	0.0	0.149	10.0	0.0	0.0	0.
180	TRACT 40.00	594.9	3635.8	1.50	0.0	0.257	10.0	0.0	0.0	0.
181	TRACT 41.00	595.7	3635.7	0.90	0.0	0.132	10.0	0.0	0.0	0.
182	TRACT 42.00	597.1	3636.0	4.90	0.0	0.222	10.0	0.0	0.0	0.
183	TRACT 43.00	596.9	3634.9	1.80	0.0	0.140	10.0	0.0	0.0	0.
184	TRACT 44.00	597.0	3633.2	4.90	0.0	0.496	10.0	0.0	0.0	0.
185	TRACT 45.00	558.6	3632.3	5.10	0.0	0.200	10.0	0.0	0.0	0.
186	TRACT 46.01	612.8	3632.4	83.10	0.0	1.180	10.0	0.0	0.0	0.
187	TRACT 46.02	607.8	3632.9	80.80	0.0	1.678	10.0	0.0	0.0	0.
188	TRACT 47.00	607.2	3628.4	4.40	0.0	0.430	10.0	0.0	0.0	0.
189	TRACT 48.00	608.2	3625.4	4.20	0.0	0.027	10.0	0.0	0.0	0.
190	TRACT 49.00	616.8	3629.9	11.90	0.0	0.049	10.0	0.0	0.0	0.
191	TRACT 50.00	632.0	3657.8	755.20	0.0	23.094	10.0	0.0	0.0	0.
192	TRACT 201	572.7	3678.1	390.80	0.0	7.573	10.0	0.0	0.0	0.
193	TRACT 202	534.4	3598.4	357.80	0.0	8.561	10.0	0.0	0.0	0.
194	TRACT 203	604.3	3681.9	290.00	0.0	10.051	10.0	0.0	0.0	0.
195	TRACT 205	585.1	3672.2	177.10	0.0	3.286	10.0	0.0	0.0	0.
196	TRACT 206	593.8	3662.0	114.10	0.0	2.264	10.0	0.0	0.0	0.
197	TRACT 207	586.6	3656.2	355.60	0.0	6.932	10.0	0.0	0.0	0.
198	TRACT 208	591.9	3658.5	24.70	0.0	0.895	10.0	0.0	0.0	0.
199	TRACT 209	590.6	3642.3	10.80	0.0	0.149	10.0	0.0	0.0	0.
200	TRACT 210	594.2	3640.4	3.40	0.0	0.045	10.0	0.0	0.0	0.
201	JAMESICEN	623.6	3671.4	579.90	0.0	20.963	10.0	0.0	0.0	0.
202	CORDESVILLE	604.5	3668.6	257.00	0.0	9.290	10.0	0.0	0.0	0.
203	EUGENE-WANDD	610.0	3649.5	303.10	0.0	10.958	10.0	0.0	0.0	0.

AQDN RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

METECROLOGICAL INPUT DATA FOR ANNUAL

MIXING DEPTH = 900. METERS
 AMBIENT TEMPERATURE = 55. DEGREES,FAHRENHEIT
 AMBIENT PRESSURE = 1013. MILLIBARS

STABILITY CLASS 1

WIND DIRECTION	WINDSPEED CLASS					
	1	2	3	4	5	6
N	.00034	.00034	.0	.0	.0	.0
NNF	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0
ENE	.0	.00034	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0
ESF	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0
S	.0	.00068	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0
WSW	.0	.00034	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0
WNW	.00034	.00034	.0	.0	.0	.0
NW	.0	.00068	.0	.0	.0	.0
NNW	.0	.0	.0	.0	.0	.0

AQDM RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

METECROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 2

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00144	.00514	.00137	.0	.0	.0
NNE	.00096	.00342	.00171	.0	.0	.0
NE	.00048	.00171	.00137	.0	.0	.0
ENE	.00009	.00137	.00034	.0	.0	.0
E	.00002	.00034	.00034	.0	.0	.0
ESE	.00117	.00103	.0	.0	.0	.0
SE	.00002	.00034	.00034	.0	.0	.0
SSE	.00110	.0	.00137	.0	.0	.0
S	.00078	.00068	.00308	.0	.0	.0
SSW	.00078	.00068	.00171	.0	.0	.0
SW	.00095	.00171	.00308	.0	.0	.0
WSW	.00012	.00171	.00274	.0	.0	.0
W	.00096	.00342	.00240	.0	.0	.0
WNW	.00018	.00274	.00103	.0	.0	.0
NW	.00050	.00205	.00034	.0	.0	.0
NNW	.00082	.00137	.0	.0	.0	.0

AQDM RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 3

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00225	.00548	.00822	.00034	.0	.0
NNE	.00096	.00171	.00822	.00137	.0	.0
NE	.00008	.00103	.00411	.00034	.0	.0
ENE	.00025	.00342	.00342	.00034	.0	.0
E	.00020	.00274	.00411	.00068	.0	.0
ESE	.00013	.00171	.00342	.0	.0	.0
SE	.00015	.00205	.00342	.00034	.0	.0
SSE	.00047	.00137	.00342	.00034	.0	.0
S	.00091	.00240	.00890	.00103	.0	.0
SSW	.00013	.00171	.00308	.00137	.0	.0
SW	.00020	.00274	.00582	.00103	.0	.0
WSW	.00023	.00308	.00798	.00068	.0	.0
W	.00015	.00205	.00719	.00205	.0	.0
WNW	.00013	.00171	.00445	.00068	.0	.00034
NW	.00150	.00034	.00342	.00034	.00034	.0
NNW	.00091	.00240	.00411	.00068	.0	.0

AQDM RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 4

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00103	.00925	.02225	.01027	.00034	.0
NNE	.00052	.00479	.01712	.00959	.0	.0
NE	.00064	.00822	.01541	.00411	.0	.0
ENE	.00018	.00514	.00993	.00205	.0	.00034
E	.00053	.00514	.01370	.00582	.0	.00034
ESE	.00054	.00548	.01233	.00445	.0	.0
SE	.00016	.00479	.00993	.00377	.0	.0
SSE	.00045	.00274	.00753	.00342	.00034	.0
S	.00068	.00959	.01918	.01678	.00274	.0
SSW	.00047	.00342	.02089	.01610	.00068	.0
SW	.00051	.00445	.01541	.01301	.00103	.0
WSW	.00115	.00240	.01267	.01096	.00034	.0
W	.00058	.00651	.00959	.01747	.00068	.00034
WNW	.00117	.00308	.00479	.00925	.00068	.0
NW	.00046	.00308	.00445	.00616	.0	.0
NNW	.00122	.00445	.00411	.00445	.0	.0

AQDM RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 5

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.01466	.03014	.00445	.0	.0	.0
NNE	.00593	.01438	.00514	.0	.0	.0
NE	.00543	.01096	.00103	.0	.0	.0
ENE	.00131	.00856	.0	.0	.0	.0
E	.00219	.00617	.00137	.0	.0	.0
ESE	.00371	.00787	.00137	.0	.0	.0
SE	.00579	.00924	.0	.0	.0	.0
SSE	.00396	.01198	.00103	.0	.0	.0
S	.01369	.03151	.00308	.0	.0	.0
SSW	.00809	.02226	.00445	.0	.0	.0
SW	.00509	.01061	.00411	.0	.0	.0
WSW	.00199	.00958	.00651	.0	.0	.0
W	.00281	.01061	.01301	.0	.0	.0
WNW	.00268	.00411	.00445	.0	.0	.0
NW	.00226	.00479	.00240	.0	.0	.0
NNW	.00845	.02363	.00171	.0	.0	.0

ACDM RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

INPUT REGRESSION PARAMETERS ARE:

<u>POLLUTANT</u>	<u>Y-INTERCEPT</u>	<u>SLOPE</u>
PARTICULATES	0.0	1.0000

AQCM RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ	VERT	SO2	PARTICULATES
1	590.0	3620.0	0.	43.
2	590.0	3622.0	0.	43.
3	590.0	3624.0	0.	44.
4	590.0	3626.0	0.	45.
5	590.0	3628.0	0.	45.
6	590.0	3630.0	0.	46.
7	590.0	3632.0	0.	46.
8	590.0	3634.0	0.	46.
9	590.0	3636.0	0.	47.
10	590.0	3638.0	0.	47.
11	590.0	3640.0	0.	46.
12	590.0	3642.0	0.	49.
13	590.0	3644.0	0.	47.
14	590.0	3646.0	0.	45.
15	592.0	3620.0	0.	43.
16	592.0	3622.0	0.	44.
17	592.0	3624.0	0.	45.
18	592.0	3626.0	0.	46.
19	592.0	3628.0	0.	48.
20	592.0	3630.0	0.	48.
21	592.0	3632.0	0.	48.
22	592.0	3634.0	0.	50.
23	592.0	3636.0	0.	49.
24	592.0	3638.0	0.	50.
25	592.0	3640.0	0.	48.
26	592.0	3642.0	0.	47.
27	592.0	3644.0	0.	46.
28	592.0	3646.0	0.	46.
29	594.0	3620.0	0.	44.
30	594.0	3622.0	0.	45.
31	594.0	3624.0	0.	46.
32	594.0	3626.0	0.	47.
33	594.0	3628.0	0.	49.
34	594.0	3630.0	0.	51.
35	594.0	3632.0	0.	52.
36	594.0	3634.0	0.	53.
37	594.0	3636.0	0.	54.
38	594.0	3638.0	0.	52.
39	594.0	3640.0	0.	50.
40	594.0	3642.0	0.	48.

AQCM RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ.	VERT.	SO2	PARTICULATES
41	594.0	3644.0	0.	46.
42	594.0	3646.0	0.	45.
43	596.0	3620.0	0.	45.
44	596.0	3622.0	0.	46.
45	595.0	3524.0	0.	49.
46	596.0	3626.0	0.	51.
47	595.0	3528.0	0.	51.
48	596.0	3630.0	0.	52.
49	596.0	3532.0	0.	53.
50	596.0	3634.0	0.	55.
51	596.0	3636.0	0.	58.
52	596.0	3638.0	0.	53.
53	596.0	3640.0	0.	50.
54	595.0	3542.0	0.	43.
55	596.0	3644.0	0.	48.
56	596.0	3545.0	0.	45.
57	598.0	3620.0	0.	45.
58	598.0	3522.0	0.	47.
59	598.0	3624.0	0.	48.
60	598.0	3626.0	0.	50.
61	598.0	3628.0	0.	59.
62	598.0	3630.0	0.	58.
63	598.0	3532.0	0.	55.
64	598.0	3634.0	0.	54.
65	598.0	3536.0	0.	52.
66	598.0	3638.0	0.	50.
67	598.0	3640.0	0.	49.
68	598.0	3642.0	0.	48.
69	598.0	3644.0	0.	47.
70	598.0	3646.0	0.	45.
71	600.0	3620.0	0.	44.
72	600.0	3522.0	0.	45.
73	600.0	3624.0	0.	47.
74	600.0	3526.0	0.	50.
75	600.0	3628.0	0.	56.
76	600.0	3630.0	0.	53.
77	600.0	3632.0	0.	51.
78	600.0	3634.0	0.	50.
79	600.0	3636.0	0.	48.
80	600.0	3638.0	0.	48.

AQDM RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ.	VERT.	SO ₂	PARTICULATES
81	500.0	3640.0	0.	47.
82	600.0	3642.0	0.	46.
83	500.0	3644.0	0.	45.
84	600.0	3646.0	0.	45.
85	602.0	3620.0	0.	42.
86	602.0	3622.0	0.	43.
87	602.0	3624.0	0.	44.
88	602.0	3626.0	0.	44.
89	602.0	3628.0	0.	45.
90	602.0	3630.0	0.	45.
91	602.0	3632.0	0.	46.
92	602.0	3634.0	0.	45.
93	602.0	3636.0	0.	45.
94	602.0	3638.0	0.	45.
95	602.0	3640.0	0.	45.
96	602.0	3642.0	0.	45.
97	602.0	3644.0	0.	44.
98	602.0	3646.0	0.	44.
99	604.0	3620.0	0.	41.
100	604.0	3622.0	0.	42.
101	604.0	3624.0	0.	42.
102	604.0	3626.0	0.	42.
103	604.0	3628.0	0.	43.
104	604.0	3630.0	0.	43.
105	604.0	3632.0	0.	44.
106	604.0	3634.0	0.	44.
107	604.0	3636.0	0.	44.
108	604.0	3638.0	0.	44.
109	604.0	3640.0	0.	44.
110	604.0	3642.0	0.	44.
111	604.0	3644.0	0.	44.
112	604.0	3646.0	0.	44.
113	606.0	3620.0	0.	40.
114	606.0	3622.0	0.	41.
115	606.0	3624.0	0.	41.
116	606.0	3626.0	0.	42.
117	606.0	3628.0	0.	42.
118	606.0	3630.0	0.	43.
119	606.0	3632.0	0.	43.
120	606.0	3634.0	0.	43.

AOCV RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ	VERT	SO2	PARTICULATES
121	606.0	3636.0	0.	43.
122	606.0	3638.0	0.	43.
123	505.0	3550.0	0.	43.
124	606.0	3642.0	0.	44.
125	606.0	3544.0	0.	44.
126	606.0	3646.0	0.	43.
127	608.0	3520.0	0.	40.
128	608.0	3622.0	0.	40.
129	608.0	3624.0	0.	41.
130	608.0	3626.0	0.	41.
131	608.0	3628.0	0.	44.
132	508.0	3530.0	0.	43.
133	608.0	3632.0	0.	43.
134	508.0	3534.0	0.	43.
135	608.0	3636.0	0.	42.
136	508.0	3538.0	0.	42.
137	608.0	3640.0	0.	42.
138	608.0	3642.0	0.	43.
139	608.0	3644.0	0.	43.
140	608.0	3646.0	0.	43.

AQCM RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 61	RECEPTOR 62	RECEPTOR 51	RECEPTOR 75	RECEPTOR 50
1	0.00 %	0.01 %	0.01 %	0.00 %	0.01 %
	0.0029	0.0030	0.0036	0.0027	0.0034
2	0.01 %	0.01 %	0.01 %	0.01 %	0.02 %
	0.0075	0.0076	0.0085	0.0070	0.0084
3	0.03 %	0.03 %	0.03 %	0.02 %	0.03 %
	0.0152	0.0153	0.0171	0.0140	0.0169
4	0.03 %	0.03 %	0.04 %	0.03 %	0.04 %
	0.0198	0.0199	0.0222	0.0192	0.0220
5	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0061	0.0062	0.0069	0.0056	0.0069
6	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0011	0.0012	0.0015	0.0011	0.0014
7	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0011	0.0012	0.0015	0.0011	0.0014
8	0.15 %	0.17 %	0.21 %	0.16 %	0.21 %
	0.0969	0.0999	0.1191	0.0995	0.1151
9	0.15 %	0.17 %	0.21 %	0.16 %	0.21 %
	0.0969	0.0999	0.1191	0.0995	0.1151
10	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0067	0.0065	0.0079	0.0063	0.0077
11	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0010	0.0011	0.0013	0.0011	0.0013
12	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0015	0.0016	0.0021	0.0016	0.0019
13	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0039	0.0041	0.0049	0.0037	0.0047
14	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0007	0.0007	0.0009	0.0009	0.0009
15	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0007	0.0007	0.0009	0.0009	0.0009
16	0.04 %	0.04 %	0.01 %	0.02 %	0.08 %
	0.0248	0.0255	0.0061	0.0112	0.0415
17	0.04 %	0.04 %	0.01 %	0.02 %	0.08 %
	0.0248	0.0255	0.0061	0.0112	0.0415
18	0.04 %	0.04 %	0.01 %	0.02 %	0.08 %
	0.0248	0.0255	0.0061	0.0112	0.0415
19	0.04 %	0.04 %	0.01 %	0.02 %	0.08 %
	0.0248	0.0255	0.0061	0.0112	0.0415
20	0.04 %	0.04 %	0.01 %	0.02 %	0.08 %
	0.0248	0.0255	0.0061	0.0112	0.0415
21	0.00 %	0.00 %	0.02 %	0.00 %	0.01 %
	0.0017	0.0022	0.0124	0.0011	0.0062

ACCM RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	61	62	51	75	50
22	0.00 %	0.00 %	0.02 %	0.00 %	0.01 %
	0.0017	0.0022	0.0124	0.0011	0.0062
23	0.01 %	0.01 %	0.07 %	0.01 %	0.04 %
	0.0062	0.0075	0.0412	0.0041	0.0221
24	0.01 %	0.01 %	0.07 %	0.01 %	0.04 %
	0.0062	0.0075	0.0412	0.0041	0.0221
25	0.00 %	0.01 %	0.04 %	0.00 %	0.02 %
	0.0028	0.0036	0.0217	0.0019	0.0104
26	0.00 %	0.01 %	0.04 %	0.00 %	0.02 %
	0.0028	0.0036	0.0217	0.0019	0.0104
27	0.02 %	0.02 %	0.13 %	0.01 %	0.07 %
	0.0107	0.0136	0.0732	0.0071	0.0385
28	0.02 %	0.02 %	0.13 %	0.01 %	0.07 %
	0.0107	0.0136	0.0732	0.0071	0.0385
29	0.02 %	0.02 %	0.13 %	0.01 %	0.07 %
	0.0107	0.0136	0.0732	0.0071	0.0385
30	0.02 %	0.02 %	0.13 %	0.01 %	0.07 %
	0.0107	0.0136	0.0732	0.0071	0.0385
31	0.01 %	0.01 %	0.04 %	0.00 %	0.02 %
	0.0035	0.0043	0.0205	0.0022	0.0104
32	0.04 %	0.03 %	0.18 %	0.02 %	0.08 %
	0.0231	0.0180	0.1031	0.0113	0.0438
33	0.01 %	0.01 %	0.03 %	0.01 %	0.02 %
	0.0062	0.0075	0.0412	0.0041	0.0221
34	0.01 %	0.01 %	0.03 %	0.00 %	0.03 %
	0.0045	0.0031	0.0152	0.0020	0.0180
35	0.01 %	0.01 %	0.03 %	0.00 %	0.03 %
	0.0045	0.0031	0.0152	0.0020	0.0180
36	0.01 %	0.02 %	0.00 %	0.01 %	0.00 %
	0.0045	0.0090	0.0016	0.0031	0.0012
37	0.01 %	0.02 %	0.00 %	0.01 %	0.00 %
	0.0045	0.0090	0.0016	0.0031	0.0012
38	0.02 %	0.02 %	0.00 %	0.01 %	0.00 %
	0.0089	0.0125	0.0017	0.0035	0.0020
39	0.07 %	0.08 %	0.21 %	0.05 %	0.17 %
	0.0427	0.0475	0.1201	0.0267	0.0931
40	0.07 %	0.08 %	0.21 %	0.05 %	0.17 %
	0.0427	0.0475	0.1201	0.0267	0.0931
41	0.04 %	0.05 %	0.13 %	0.03 %	0.10 %
	0.0238	0.0270	0.0725	0.0149	0.0545
42	0.14 %	0.16 %	0.36 %	0.09 %	0.31 %
	0.0928	0.0912	0.2051	0.0506	0.1691

ACEM FUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/75

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 1	RECEPTOR 2	RECEPTOR 3	RECEPTOR 4	RECEPTOR 5
43	0.01 %	0.01 %	0.02 %	0.00 %	0.01 %
44	0.0044	0.0047	0.0091	0.0027	0.0039
45	0.03 %	0.04 %	0.12 %	0.03 %	0.08 %
46	0.05 %	0.05 %	0.17 %	0.04 %	0.12 %
47	0.05 %	0.06 %	0.15 %	0.04 %	0.11 %
48	0.11 %	0.13 %	0.37 %	0.09 %	0.25 %
49	0.05 %	0.05 %	0.12 %	0.03 %	0.10 %
50	0.10 %	0.11 %	0.28 %	0.07 %	0.23 %
51	0.04 %	0.04 %	0.09 %	0.02 %	0.07 %
52	0.08 %	0.10 %	0.31 %	0.05 %	0.22 %
53	0.04 %	0.05 %	0.11 %	0.03 %	0.09 %
54	0.01 %	0.01 %	0.03 %	0.01 %	0.03 %
55	0.03 %	0.03 %	0.08 %	0.02 %	0.05 %
56	0.07 %	0.09 %	0.34 %	0.05 %	0.22 %
57	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
58	0.0002	0.0004	0.0013	0.0002	0.0009
59	0.03 %	0.03 %	0.06 %	0.02 %	0.04 %
60	0.02 %	0.03 %	0.04 %	0.01 %	0.07 %
61	0.00 %	0.01 %	0.01 %	0.00 %	0.01 %
62	0.07 %	0.09 %	0.09 %	0.03 %	0.18 %
63	0.01 %	0.00 %	0.02 %	0.00 %	0.01 %

ACCM RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	51	62	51	75	50
64	0.01 %	0.01 %	0.00 %	0.00 %	0.00 %
	0.0042	0.0059	0.0014	0.0020	0.0020
65	0.01 %	0.03 %	0.01 %	0.01 %	0.01 %
	0.0015	0.0154	0.0032	0.0049	0.0057
66	0.01 %	0.03 %	0.01 %	0.01 %	0.01 %
	0.0015	0.0150	0.0032	0.0049	0.0056
67	0.03 %	0.06 %	0.01 %	0.02 %	0.02 %
	0.0159	0.0343	0.0085	0.0130	0.0135
68	0.27 %	0.46 %	0.12 %	0.18 %	0.19 %
	0.1533	0.2554	0.0697	0.1038	0.1068
69	0.24 %	0.48 %	0.11 %	0.17 %	0.20 %
	0.1949	0.2785	0.0626	0.0944	0.1091
70	0.03 %	0.05 %	0.01 %	0.02 %	0.02 %
	0.0202	0.0257	0.0059	0.0123	0.0084
71	0.11 %	0.15 %	0.03 %	0.07 %	0.05 %
	0.0571	0.0845	0.0137	0.0410	0.0277
72	0.11 %	0.15 %	0.03 %	0.07 %	0.05 %
	0.0571	0.0845	0.0137	0.0410	0.0277
73	0.04 %	0.07 %	0.01 %	0.03 %	0.02 %
	0.0240	0.0385	0.0059	0.0144	0.0101
74	0.01 %	0.04 %	0.00 %	0.01 %	0.01 %
	0.0084	0.0205	0.0023	0.0050	0.0036
75	0.01 %	0.01 %	0.04 %	0.01 %	0.02 %
	0.0044	0.0052	0.0232	0.0031	0.0135
76	0.01 %	0.01 %	0.04 %	0.01 %	0.02 %
	0.0044	0.0052	0.0232	0.0031	0.0135
77	0.00 %	0.01 %	0.03 %	0.00 %	0.01 %
	0.0025	0.0030	0.0157	0.0017	0.0077
78	0.00 %	0.01 %	0.03 %	0.00 %	0.01 %
	0.0025	0.0030	0.0157	0.0017	0.0077
79	0.09 %	0.12 %	0.05 %	0.05 %	0.07 %
	0.0512	0.0585	0.0255	0.0252	0.0373
80	0.12 %	0.16 %	0.06 %	0.06 %	0.09 %
	0.0582	0.0919	0.0354	0.0359	0.0505
81	0.02 %	0.02 %	0.03 %	0.02 %	0.03 %
	0.0141	0.0125	0.0177	0.0093	0.0139
82	0.02 %	0.02 %	0.03 %	0.02 %	0.03 %
	0.0141	0.0125	0.0177	0.0093	0.0139
83	0.02 %	0.02 %	0.03 %	0.02 %	0.03 %
	0.0141	0.0125	0.0177	0.0093	0.0139
84	0.03 %	0.04 %	0.01 %	0.03 %	0.02 %
	0.0115	0.0259	0.0091	0.0155	0.0112

AQDM RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	51	52	51	75	50
85	0.03 %	0.04 %	0.01 %	0.03 %	0.02 %
	0.0175	0.0256	0.0081	0.0156	0.0112
86	0.02 %	0.03 %	0.01 %	0.02 %	0.01 %
	0.0109	0.0161	0.0050	0.0097	0.0070
87	0.00 %	0.00 %	0.01 %	0.00 %	0.00 %
	0.0011	0.0012	0.0043	0.0008	0.0028
88	0.00 %	0.00 %	0.01 %	0.00 %	0.00 %
	0.0011	0.0012	0.0043	0.0008	0.0028
89	0.00 %	0.00 %	0.01 %	0.00 %	0.01 %
	0.0009	0.0010	0.0045	0.0005	0.0029
90	0.00 %	0.00 %	0.01 %	0.00 %	0.01 %
	0.0012	0.0014	0.0051	0.0005	0.0032
91	0.02 %	0.02 %	0.13 %	0.01 %	0.06 %
	0.0102	0.0120	0.0732	0.0058	0.0332
92	0.03 %	0.03 %	0.05 %	0.02 %	0.05 %
	0.0149	0.0151	0.0253	0.0101	0.0250
93	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0000	0.0000	0.0002	0.0010	0.0002
94	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0000	0.0000	0.0002	0.0010	0.0002
95	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0000	0.0000	0.0002	0.0010	0.0002
96	0.24 %	0.16 %	0.05 %	0.18 %	0.05 %
	0.1439	0.0909	0.0274	0.1014	0.0292
97	0.00 %	0.00 %	0.01 %	0.00 %	0.01 %
	0.0009	0.0008	0.0032	0.0005	0.0054
98	0.00 %	0.00 %	0.01 %	0.00 %	0.02 %
	0.0017	0.0014	0.0059	0.0008	0.0090
99	0.00 %	0.00 %	0.02 %	0.00 %	0.03 %
	0.0028	0.0023	0.0090	0.0014	0.0150
100	0.01 %	0.01 %	0.03 %	0.01 %	0.06 %
	0.0062	0.0050	0.0199	0.0030	0.0330
101	0.02 %	0.02 %	0.07 %	0.01 %	0.13 %
	0.0109	0.0097	0.0377	0.0058	0.0707
102	0.14 %	0.13 %	0.52 %	0.08 %	0.92 %
	0.0851	0.0749	0.2739	0.0451	0.5105
103	0.37 %	0.58 %	0.19 %	0.44 %	0.26 %
	0.2213	0.3384	0.1047	0.2493	0.1412
104	0.41 %	0.64 %	0.20 %	0.49 %	0.28 %
	0.2439	0.3723	0.1151	0.2731	0.1554
105	0.19 %	0.29 %	0.09 %	0.22 %	0.13 %
	0.1106	0.1692	0.0523	0.1241	0.0705

ACDP RUN -ALL SOURCES- FOR CHARLESTON AGMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	61	52	51	75	50
106	0.03 %	0.02 %	0.01 %	0.26 %	0.01 %
	0.0163	0.0110	0.0031	0.1434	0.0041
107	0.01 %	0.01 %	0.01 %	0.01 %	0.00 %
	0.0073	0.0033	0.0055	0.0047	0.0017
108	0.01 %	0.01 %	0.01 %	0.01 %	0.00 %
	0.0087	0.0038	0.0077	0.0055	0.0012
109	0.08 %	0.05 %	0.03 %	0.04 %	0.03 %
	0.0450	0.0281	0.0446	0.0251	0.0191
110	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0004	0.0004	0.0004	0.0004	0.0004
111	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0074	0.0070	0.0071	0.0070	0.0071
112	0.02 %	0.05 %	0.00 %	0.01 %	0.01 %
	0.0120	0.0266	0.0019	0.0051	0.0032
113	0.03 %	0.02 %	0.01 %	0.01 %	0.01 %
	0.0157	0.0115	0.0058	0.0054	0.0075
114	0.14 %	0.81 %	0.02 %	0.06 %	0.05 %
	0.0835	0.4687	0.0139	0.0312	0.0242
115	0.01 %	0.02 %	0.01 %	0.01 %	0.01 %
	0.0063	0.0052	0.0084	0.0055	0.0075
116	0.00 %	0.00 %	0.02 %	0.00 %	0.01 %
	0.0021	0.0025	0.0142	0.0015	0.0068
117	0.00 %	0.00 %	0.02 %	0.00 %	0.01 %
	0.0021	0.0025	0.0142	0.0015	0.0068
118	0.00 %	0.01 %	0.02 %	0.00 %	0.01 %
	0.0026	0.0021	0.0139	0.0019	0.0074
119	0.00 %	0.01 %	0.02 %	0.00 %	0.01 %
	0.0026	0.0021	0.0138	0.0019	0.0074
120	0.04 %	0.07 %	0.11 %	0.03 %	0.16 %
	0.0215	0.0390	0.0632	0.0165	0.0910
121	0.03 %	0.05 %	0.08 %	0.02 %	0.11 %
	0.0149	0.0270	0.0438	0.0115	0.0629
122	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0013	0.0015	0.0024	0.0009	0.0026
123	0.00 %	0.02 %	0.00 %	0.01 %	0.00 %
	0.0020	0.0088	0.0018	0.0071	0.0017
124	0.01 %	0.01 %	0.00 %	0.02 %	0.00 %
	0.0054	0.0051	0.0015	0.0085	0.0014
125	0.01 %	0.01 %	0.00 %	0.02 %	0.00 %
	0.0054	0.0051	0.0015	0.0085	0.0014
126	0.13 %	0.26 %	0.04 %	0.05 %	0.08 %
	0.0765	0.1518	0.0256	0.0307	0.0433

AGCM RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 61	RECEPTOR 62	RECEPTOR 51	RECEPTOR 75	RECEPTOR 50
127	0.69 % 0.4085	1.18 % 0.6846	0.22 % 0.1245	0.29 % 0.1579	0.39 % 0.2160
128	0.21 % 0.1233	0.25 % 0.1477	0.73 % 0.4192	0.12 % 0.0657	1.93 % 1.0686
129	0.18 % 0.1077	0.22 % 0.1301	0.75 % 0.4297	0.11 % 0.0596	0.60 % 0.3325
130	0.19 % 0.1144	0.14 % 0.0832	0.04 % 0.0237	0.63 % 0.3564	0.05 % 0.0255
131	0.19 % 0.1071	0.10 % 0.0586	0.04 % 0.0241	0.85 % 0.4780	0.05 % 0.0269
132	0.17 % 0.0996	0.13 % 0.0749	0.04 % 0.0205	1.45 % 0.8147	0.05 % 0.0262
133	0.34 % 0.2040	0.18 % 0.1055	0.06 % 0.0333	2.02 % 1.1378	0.06 % 0.0327
134	0.98 % 0.5188	0.34 % 0.1967	0.08 % 0.0455	0.89 % 0.5017	0.10 % 0.0536
135	7.83 % 4.6282	1.02 % 0.5943	0.19 % 0.1111	0.90 % 0.5049	0.25 % 0.1381
136	0.74 % 0.4372	0.46 % 0.2661	0.11 % 0.0617	1.97 % 1.1049	0.11 % 0.0628
137	0.20 % 0.1159	0.17 % 0.0968	0.04 % 0.0237	5.00 % 2.8119	0.06 % 0.0307
138	0.51 % 0.3017	0.52 % 0.3009	0.12 % 0.0690	2.92 % 1.5848	0.17 % 0.0940
139	1.24 % 0.7314	0.72 % 0.4122	0.09 % 0.0489	0.72 % 0.4033	0.09 % 0.0472
140	3.47 % 2.0547	0.78 % 0.4521	0.11 % 0.0617	0.28 % 0.1600	0.14 % 0.0789
141	1.46 % 0.8618	1.60 % 0.9292	0.10 % 0.0565	0.34 % 0.1911	0.10 % 0.0554
142	0.69 % 0.4052	0.96 % 0.5545	0.13 % 0.0751	1.00 % 0.5601	0.17 % 0.0942
143	0.70 % 0.4161	0.96 % 0.5557	0.20 % 0.1160	0.86 % 0.4822	0.28 % 0.1558
144	0.52 % 0.3071	5.65 % 3.2923	0.09 % 0.0535	0.17 % 0.0946	0.10 % 0.0568
145	0.07 % 0.0442	0.15 % 0.0870	0.02 % 0.0131	0.02 % 0.0136	0.04 % 0.0198
146	0.21 % 0.1220	0.99 % 0.5164	0.04 % 0.0229	0.06 % 0.0361	0.06 % 0.0326
147	0.09 % 0.0557	0.10 % 0.0605	0.02 % 0.0097	0.02 % 0.0118	0.02 % 0.0111

ACCM RUN -ALL SOURCES- FOR CHARLESTON AOMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 61	RECEPTOR 62	RECEPTOR 51	RECEPTOR 75	RECEPTOR 50
148	0.16 %	0.15 %	0.12 %	0.11 %	0.15 %
	0.0223	0.0883	0.0691	0.0646	0.0834
149	0.46 %	0.38 %	0.23 %	0.35 %	0.27 %
	0.2712	0.2222	0.1297	0.1973	0.1517
150	0.25 %	0.23 %	0.15 %	0.32 %	0.17 %
	0.1579	0.1313	0.0842	0.1816	0.0932
151	0.34 %	0.27 %	0.14 %	0.31 %	0.17 %
	0.1993	0.1567	0.0812	0.1741	0.0923
152	0.34 %	0.32 %	0.29 %	0.34 %	0.31 %
	0.1996	0.1858	0.1642	0.1914	0.1731
153	0.04 %	0.04 %	0.03 %	0.06 %	0.03 %
	0.0231	0.0216	0.0147	0.0315	0.0155
154	0.69 %	0.71 %	0.88 %	0.63 %	0.95 %
	0.4056	0.4135	0.5054	0.3554	0.5222
155	1.59 %	1.58 %	1.66 %	1.53 %	1.78 %
	0.9386	0.9165	0.9565	0.8621	0.9860
156	1.28 %	1.31 %	1.41 %	1.23 %	1.51 %
	0.7590	0.7555	0.8118	0.6897	0.8369
157	1.02 %	1.04 %	1.17 %	1.00 %	1.19 %
	0.6026	0.6054	0.6720	0.5597	0.6595
158	1.72 %	1.76 %	1.84 %	1.76 %	1.91 %
	1.0150	1.0221	1.0567	0.9869	1.0569
159	0.80 %	0.80 %	0.96 %	0.80 %	0.95 %
	0.4752	0.4672	0.5500	0.4506	0.5233
160	0.34 %	0.34 %	0.44 %	0.32 %	0.43 %
	0.2017	0.1971	0.2506	0.1796	0.2364
161	0.10 %	0.12 %	0.18 %	0.09 %	0.19 %
	0.0602	0.0674	0.1015	0.0519	0.1065
162	0.53 %	0.53 %	0.85 %	0.42 %	1.04 %
	0.3710	0.3665	0.4952	0.2341	0.5741
163	0.27 %	0.31 %	0.39 %	0.22 %	0.44 %
	0.1600	0.1779	0.2250	0.1222	0.2417
164	0.17 %	0.18 %	0.23 %	0.14 %	0.25 %
	0.0991	0.1025	0.1340	0.0813	0.1404
165	0.33 %	0.33 %	0.25 %	0.23 %	0.35 %
	0.1945	0.1930	0.1435	0.1270	0.1924
166	1.25 %	1.07 %	0.65 %	0.68 %	0.85 %
	0.7371	0.6204	0.3715	0.3799	0.4697
167	0.16 %	0.16 %	0.18 %	0.14 %	0.20 %
	0.0943	0.0903	0.1032	0.0773	0.1124
168	0.25 %	0.25 %	0.39 %	0.22 %	0.39 %
	0.1526	0.1537	0.2269	0.1254	0.2134

AOCM PUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 61	RECEPTOR 62	RECEPTOR 51	RECEPTOR 75	RECEPTOR 50
169	0.20 %	0.19 %	0.25 %	0.15 %	0.27 %
	0.1179	0.1126	0.1463	0.0924	0.1484
170	0.10 %	0.10 %	0.14 %	0.08 %	0.14 %
	0.0596	0.0578	0.0811	0.0470	0.0756
171	0.21 %	0.20 %	0.33 %	0.16 %	0.31 %
	0.1263	0.1158	0.1913	0.0924	0.1689
172	0.13 %	0.14 %	0.19 %	0.12 %	0.19 %
	0.0743	0.0806	0.1111	0.0656	0.1061
173	0.39 %	0.36 %	0.67 %	0.24 %	0.74 %
	0.2326	0.2109	0.3942	0.1359	0.4113
174	0.16 %	0.18 %	0.41 %	0.15 %	0.37 %
	0.0919	0.1051	0.2349	0.0933	0.2029
175	0.05 %	0.07 %	0.15 %	0.05 %	0.14 %
	0.0336	0.0356	0.0947	0.0259	0.0767
175	0.05 %	0.07 %	0.22 %	0.04 %	0.17 %
	0.0331	0.0402	0.1269	0.0212	0.0928
177	0.32 %	0.38 %	1.05 %	0.18 %	0.94 %
	0.1907	0.2219	0.6023	0.1039	0.5194
178	0.32 %	0.30 %	0.58 %	0.20 %	0.68 %
	0.1970	0.1763	0.3911	0.1144	0.3770
179	0.11 %	0.12 %	0.25 %	0.09 %	0.22 %
	0.0675	0.0710	0.1436	0.0479	0.1218
180	0.44 %	0.37 %	2.16 %	0.23 %	2.51 %
	0.2598	0.2126	1.2430	0.1295	1.3978
181	0.23 %	0.31 %	5.55 %	0.14 %	1.30 %
	0.1385	0.1782	3.7713	0.0771	0.7174
182	0.43 %	0.55 %	2.07 %	0.36 %	0.85 %
	0.2537	0.3271	1.1937	0.2049	0.4725
183	0.30 %	0.42 %	1.20 %	0.24 %	1.38 %
	0.1802	0.2441	0.6930	0.1374	0.7656
184	1.29 %	1.57 %	1.51 %	0.91 %	2.50 %
	0.7630	0.9112	0.8668	0.5102	1.4368
185	0.59 %	0.79 %	0.35 %	0.54 %	0.41 %
	0.3458	0.4598	0.2037	0.3023	0.2244
186	0.34 %	0.33 %	0.27 %	0.42 %	0.29 %
	0.2005	0.1929	0.1564	0.2356	0.1575
187	0.61 %	0.63 %	0.52 %	0.86 %	0.55 %
	0.3590	0.3678	0.2989	0.4862	0.3036
188	0.24 %	0.23 %	0.19 %	0.33 %	0.22 %
	0.1400	0.1302	0.1096	0.1855	0.1236
189	0.01 %	0.02 %	0.01 %	0.02 %	0.01 %
	0.0016	0.0091	0.0063	0.0110	0.0063

ACCM RUN -ALL SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	61	62	51	75	50
190	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0061	0.0062	0.0064	0.0069	0.0060
191	2.62 %	2.58 %	2.19 %	2.97 %	2.25 %
	1.5476	1.5002	1.2600	1.6678	1.2421
192	1.31 %	1.33 %	1.40 %	1.29 %	1.48 %
	0.7763	0.7755	0.8052	0.7245	0.8150
193	1.77 %	1.85 %	2.05 %	1.81 %	2.10 %
	1.0496	1.0726	1.1865	1.0189	1.1579
194	2.42 %	2.55 %	2.75 %	2.57 %	2.77 %
	1.4329	1.4841	1.5826	1.5011	1.5314
195	0.85 %	0.90 %	1.04 %	0.89 %	1.05 %
	0.5044	0.5213	0.6001	0.4941	0.5789
196	0.90 %	0.96 %	1.15 %	0.89 %	1.17 %
	0.5294	0.5566	0.6610	0.5022	0.6439
197	1.86 %	1.89 %	2.05 %	1.81 %	2.15 %
	1.0285	1.0593	1.1774	1.0179	1.1894
198	0.54 %	0.59 %	0.84 %	0.53 %	0.80 %
	0.3171	0.3432	0.4832	0.3000	0.4413
199	0.09 %	0.09 %	0.13 %	0.06 %	0.14 %
	0.0548	0.0506	0.0721	0.0355	0.0779
200	0.05 %	0.06 %	0.13 %	0.04 %	0.10 %
	0.0277	0.0321	0.0723	0.0213	0.0555
201	3.29 %	3.34 %	3.14 %	3.62 %	3.30 %
	1.9484	1.9386	1.8089	2.0338	1.8241
202	2.77 %	2.86 %	2.90 %	3.01 %	2.99 %
	1.5380	1.6624	1.6715	1.6248	1.6475
203	3.12 %	3.22 %	2.84 %	3.58 %	3.00 %
	1.8470	1.8689	1.6376	2.0107	1.6565
BACK-	33.82 %	34.41 %	34.74 %	35.58 %	36.20 %
SECUNE	20.00	20.00	20.00	20.00	20.00
TOTAL	100.1 %	100.1 %	100.0 %	100.0 %	100.0 %
	59.1439	59.1511	57.5309	56.2456	55.2639

APPENDIX B

SOURCE DATA

SOURCE NUMBER	SOURCE ID.	SOURCE LOCATION (KILOMETERS)		SOURCE AREA SQUARE KILOMETERS	ANNUAL SOURCE EMISSION RATE (TONS/DAY)		STACK DATA			
		HORIZONTAL	VERTICAL		SO2	PART	HT (FT)	DIAM (FT)	VEL (FPS)	TEMP (DEG.F)
1	TRACT 1.00	595.4	3626.6	0.80	0.0	0.044	10.0	0.0	0.0	C.
2	TRACT 2.00	600.3	3626.6	0.70	0.0	0.060	10.0	0.0	0.0	C.
3	TRACT 3.00	600.4	3627.4	0.60	0.0	0.053	10.0	0.0	0.0	C.
4	TRACT 4.00	595.6	3627.5	0.60	0.0	0.063	10.0	0.0	0.0	C.
5	TRACT 5.00	598.9	3627.3	0.70	C.C	C.C74	10.0	0.0	0.0	C.
6	TRACT 6.00	598.3	3627.8	0.90	C.C	0.149	10.0	0.0	0.0	C.
7	TRACT 7.00	595.4	3628.3	0.70	0.0	0.107	10.0	0.0	0.0	C.
8	TRACT 8.00	600.2	3628.1	0.60	0.0	0.056	10.0	0.0	C.C	C.
9	TRACT 9.00	600.0	3629.1	1.00	0.0	0.145	10.0	0.0	0.0	C.
10	TRACT 10.00	598.8	3628.6	0.40	0.0	0.073	10.0	0.0	0.0	C.
11	TRACT 11.00	597.9	3628.4	1.00	0.0	0.072	10.0	0.0	0.0	C.
12	TRACT 12.00	598.5	3629.2	0.40	0.0	0.074	10.0	0.0	0.0	C.
13	TRACT 13.00	595.3	3629.7	1.00	0.0	0.126	10.0	0.0	0.0	C.
14	TRACT 14.00	595.3	3630.4	2.20	0.0	0.169	10.0	0.0	0.0	C.
15	TRACT 15.00	598.1	3630.2	0.50	0.0	0.055	10.0	0.0	0.0	C.
16	TRACT 16.00	597.4	3630.4	0.80	0.0	0.011	10.0	0.0	0.0	C.
17	TRACT 17.00	597.7	3629.6	1.10	0.0	0.023	10.0	0.0	0.0	C.
18	TRACT 18.00	597.1	3628.9	0.80	0.0	0.008	10.0	0.0	0.0	C.
19	TRACT 19.01	592.9	3623.9	9.90	0.0	0.105	10.0	0.0	0.0	C.
20	TRACT 19.02	596.8	3624.6	8.10	0.0	0.177	10.0	0.0	0.0	C.
21	TRACT 20.01	600.3	3622.5	20.60	0.0	0.201	10.0	0.0	0.0	C.
22	TRACT 20.02	597.3	3622.1	5.60	0.0	0.141	10.0	0.0	0.0	C.
23	TRACT 20.03	596.2	3617.4	65.80	0.0	0.434	10.0	0.0	C.C	C.
24	TRACT 20.04	600.9	3615.2	10.30	0.0	0.052	10.0	0.0	0.0	C.
25	TRACT 21.01	586.1	3624.0	83.30	0.0	1.747	10.0	0.0	0.0	C.
26	TRACT 21.02	587.7	3614.3	162.70	0.0	3.920	10.0	0.0	0.0	C.
27	TRACT 22.00	575.6	3613.9	116.80	0.0	5.281	10.0	0.0	0.0	C.
28	TRACT 23.00	564.0	3605.3	195.70	0.0	6.557	10.0	0.0	0.0	C.
29	TRACT 24.00	561.3	3624.4	306.50	C.C	13.303	10.0	0.0	0.0	C.
30	TRACT 25.00	574.8	3627.2	171.30	0.0	3.974	10.0	0.0	0.0	C.
31	TRACT 26.01	582.6	3634.3	107.70	0.0	1.311	10.0	0.0	0.0	C.
32	TRACT 26.02	590.4	3631.6	14.80	0.0	0.173	10.0	0.0	C.C	C.
33	TRACT 26.03	594.6	3630.7	13.00	0.0	0.465	10.0	0.0	0.0	C.
34	TRACT 27.00	591.8	3625.0	6.40	0.0	0.271	10.0	0.0	C.C	C.
35	TRACT 28.00	591.7	3627.3	10.30	0.0	0.175	10.0	0.0	0.0	C.
36	TRACT 29.00	595.0	3628.0	2.60	0.0	0.133	10.0	0.0	0.0	C.
37	TRACT 30.00	596.2	3626.8	5.20	0.0	0.375	10.0	0.0	0.0	C.
38	TRACT 31.01	584.7	3647.4	44.70	0.0	0.516	10.0	0.0	0.0	C.
39	TRACT 31.02	585.5	3637.0	22.50	0.0	0.536	10.0	0.0	0.0	C.
40	TRACT 31.03	588.0	3647.4	21.90	0.0	0.437	10.0	0.0	0.0	C.
41	TRACT 31.04	590.0	3643.6	4.40	0.0	0.197	10.0	0.0	0.0	C.
42	TRACT 31.05	590.8	3641.5	5.60	0.0	0.363	10.0	0.0	0.0	C.
43	TRACT 32.00	585.0	3640.6	13.30	0.0	0.295	10.0	0.0	0.0	C.
44	TRACT 33.00	593.0	3638.4	4.70	0.0	0.408	10.0	0.0	C.C	C.
45	TRACT 34.00	595.8	3630.5	6.10	0.0	0.140	10.0	0.0	0.0	C.
46	TRACT 35.00	594.7	3639.3	3.40	0.0	0.049	10.0	0.0	0.0	C.
47	TRACT 36.00	595.0	3637.9	1.70	0.0	0.042	10.0	0.0	C.C	C.
48	TRACT 37.00	595.0	3636.7	2.70	0.0	0.217	10.0	0.0	0.0	C.
49	TRACT 38.00	593.6	3635.8	5.10	0.0	0.293	10.0	0.0	C.C	C.
50	TRACT 39.00	592.3	3634.4	8.30	0.0	0.149	10.0	0.0	0.0	C.
51	TRACT 40.00	594.9	3634.8	1.50	0.0	0.267	10.0	0.0	0.0	C.
52	TRACT 41.00	595.7	3635.7	0.50	0.0	0.132	10.0	0.0	0.0	C.
53	TRACT 42.00	597.1	3636.0	4.50	C.C	0.222	10.0	0.0	0.0	C.

54	TRACT 43.00	556.9	3624.9	1.80	0.0	0.140	10.0	0.0	0.0	0.0
55	TRACT 44.00	597.0	3633.2	4.90	0.0	0.496	10.0	0.0	0.0	0.0
56	TRACT 45.00	558.6	3622.3	5.10	0.0	0.200	10.0	0.0	0.0	0.0
57	TRACT 46.01	612.8	3635.4	83.10	0.0	1.180	10.0	0.0	0.0	0.0
58	TRACT 46.02	607.8	3632.9	80.00	0.0	1.678	10.0	0.0	0.0	0.0
59	TRACT 47.00	607.2	3628.4	4.40	C.C	0.430	10.0	0.0	0.0	0.0
60	TRACT 48.00	608.2	3625.4	4.20	0.0	0.027	10.0	0.0	0.0	0.0
61	TRACT 49.00	616.8	3629.9	11.90	0.0	0.049	10.0	0.0	0.0	0.0
62	TRACT 50.00	632.0	3657.8	755.20	0.0	23.094	10.0	C.C	C.C	C.C
63	TRACT 201	572.7	3678.1	390.80	0.0	7.571	10.0	C.C	0.0	0.0
64	TRACT 202	594.4	3698.4	367.80	0.0	8.561	10.0	0.0	0.0	0.0
65	TRACT 203	604.3	3681.9	290.00	0.0	10.051	10.0	0.0	0.0	0.0
66	TRACT 205	585.1	3672.2	177.10	0.0	3.286	10.0	0.0	0.0	0.0
67	TRACT 206	593.8	3662.0	114.10	0.0	2.264	10.0	0.0	0.0	0.0
68	TRACT 207	588.6	3656.2	355.60	0.0	6.932	10.0	C.C	0.0	0.0
69	TRACT 208	591.9	3648.5	24.70	0.0	0.895	10.0	0.0	0.0	0.0
70	TRACT 209	590.6	3642.3	10.80	0.0	0.149	10.0	0.0	0.0	0.0
71	TRACT 210	594.2	3640.4	3.40	0.0	0.045	10.0	C.C	0.0	0.0
72	JAMESCWN	622.6	3671.4	579.90	0.0	20.963	10.0	0.0	0.0	0.0
73	CORDESVILLE	604.5	3668.6	257.00	0.0	9.290	10.0	0.0	0.0	0.0
74	HUGER-BANDO	615.0	3645.5	303.10	0.0	10.958	10.0	0.0	0.0	0.0

ACDM RUN -AREA SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 10/25/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

MIXING DEPTH = 900. METERS
 AMBIENT TEMPERATURE = 65. DEGREES,FAHRENHEIT
 AMBIENT PRESSURE = 1013. MILLIBARS

STABILITY CLASS 1

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00034	.00034	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0
ENE	.0	.00034	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0
S	.0	.00068	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0
WSW	.0	.00034	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0
WNW	.00034	.00034	.0	.0	.0	.0
NW	.0	.00068	.0	.0	.0	.0
NNW	.0	.0	.0	.0	.0	.0

AQDM RUN -AREA SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 10/25/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 2

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00144	.00514	.00137	.0	.0	.0
NNE	.00096	.00342	.00171	.0	.0	.0
NE	.00048	.00171	.00137	.0	.0	.0
ENE	.00009	.00137	.00034	.0	.0	.0
E	.00002	.00034	.00034	.0	.0	.0
ESE	.00117	.00103	.0	.0	.0	.0
SE	.00002	.00034	.00034	.0	.0	.0
SSE	.00110	.0	.00137	.0	.0	.0
S	.00078	.00068	.00308	.0	.0	.0
SSW	.00078	.00068	.00171	.0	.0	.0
SW	.00085	.00171	.00308	.0	.0	.0
WSW	.00012	.00171	.00274	.0	.0	.0
W	.00096	.00342	.00240	.0	.0	.0
WNW	.00018	.00274	.00103	.0	.0	.0
NW	.00050	.00205	.00034	.0	.0	.0
NNW	.00082	.00137	.0	.0	.0	.0

ACDM RUN -AREA SOURCES- FOR CHARLESTON ACMA, SOUTH CAROLINA 10/25/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 3

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00225	.00548	.00822	.00034	.0	.0
NNE	.00086	.00171	.00822	.00137	.0	.0
NE	.00008	.00103	.00411	.00034	.0	.0
ENE	.00025	.00342	.00342	.00034	.0	.0
E	.00020	.00274	.00411	.00068	.0	.0
ESE	.00013	.00171	.00342	.0	.0	.0
SE	.00015	.00205	.00342	.00034	.0	.0
SSE	.00047	.00137	.00342	.00034	.0	.0
S	.00091	.00240	.00890	.00103	.0	.0
SSW	.00013	.00171	.00308	.00137	.0	.0
SW	.00020	.00274	.00582	.00103	.0	.0
WSW	.00023	.00308	.00788	.00068	.0	.0
W	.00015	.00205	.00719	.00205	.0	.0
WNW	.00013	.00171	.00445	.00068	.0	.00034
NW	.00150	.00034	.00342	.00034	.00034	.0
NNW	.00091	.00240	.00411	.00068	.0	.0

AQDM RUN AREA SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 10/25/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 4

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00103	.00925	.02226	.01027	.00034	.0
NNE	.00052	.00479	.01712	.00959	.0	.0
NE	.00064	.00822	.01541	.00411	.0	.0
ENE	.00018	.00514	.00993	.00205	.0	.00034
E	.00053	.00514	.01370	.00582	.0	.00034
ESE	.00054	.00548	.01233	.00445	.0	.0
SE	.00016	.00479	.00993	.00377	.0	.0
SSE	.00045	.00274	.00753	.00342	.00034	.0
S	.00068	.00959	.01918	.01678	.00274	.0
SSW	.00047	.00342	.02089	.01610	.00068	.0
SW	.00051	.00445	.01541	.01301	.00103	.0
WSW	.00115	.00240	.01267	.01096	.00034	.0
W	.00058	.00651	.00959	.01747	.00068	.00034
WNW	.00117	.00308	.00479	.00925	.00068	.0
NW	.00046	.00308	.00445	.00616	.0	.0
NNW	.00122	.00445	.00411	.00445	.0	.0

ACDM FUN -AREA SOURCES- FOR CHARLESTON ACMA, SOUTH CAROLINA 10/25/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 5

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.01466	.03014	.00445	.0	.0	.0
NNE	.00693	.01438	.00514	.0	.0	.0
NE	.00543	.01096	.00103	.0	.0	.0
ENE	.00131	.00856	.0	.0	.0	.0
E	.00219	.00617	.00137	.0	.0	.0
ESE	.00371	.00787	.00137	.0	.0	.0
SE	.00579	.00924	.0	.0	.0	.0
SSE	.00396	.01198	.00103	.0	.0	.0
S	.01369	.03151	.00308	.0	.0	.0
SSW	.00809	.02226	.00445	.0	.0	.0
SW	.00509	.01061	.00411	.0	.0	.0
WSW	.00199	.00958	.00651	.0	.0	.0
W	.00281	.01061	.01301	.0	.0	.0
WNW	.00268	.00411	.00445	.0	.0	.0
NW	.00226	.00479	.00240	.0	.0	.0
NNW	.00845	.02363	.00171	.0	.0	.0

AQOM RUN -AREA SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 10/25/76

INPUT REGRESSION PARAMETERS ARE:

POLLUTANT	Y-INTERCEPT	SLOPE
PARTICULATES	0.0	1.0000

ACDM RUN -AREA SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 10/25/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ	VERT	SO2	PARTICULATES
1	590.0	3620.0	0.	22.
2	590.0	3622.0	0.	22.
3	590.0	3624.0	0.	22.
4	590.0	3626.0	0.	23.
5	590.0	3628.0	0.	23.
6	590.0	3630.0	0.	24.
7	590.0	3632.0	0.	24.
8	590.0	3634.0	0.	24.
9	590.0	3636.0	0.	25.
10	590.0	3638.0	0.	25.
11	590.0	3640.0	0.	25.
12	590.0	3642.0	0.	26.
13	590.0	3644.0	0.	25.
14	590.0	3646.0	0.	23.
15	592.0	3620.0	0.	22.
16	592.0	3622.0	0.	22.
17	592.0	3624.0	0.	23.
18	592.0	3626.0	0.	24.
19	592.0	3628.0	0.	26.
20	592.0	3630.0	0.	26.
21	592.0	3632.0	0.	26.
22	592.0	3634.0	0.	26.
23	592.0	3636.0	0.	26.
24	592.0	3638.0	0.	27.
25	592.0	3640.0	0.	25.
26	592.0	3642.0	0.	25.
27	592.0	3644.0	0.	24.
28	592.0	3646.0	0.	24.
29	594.0	3620.0	0.	22.
30	594.0	3622.0	0.	23.
31	594.0	3624.0	0.	24.
32	594.0	3626.0	0.	25.
33	594.0	3628.0	0.	25.
34	594.0	3630.0	0.	27.
35	594.0	3632.0	0.	28.
36	594.0	3634.0	0.	28.
37	594.0	3636.0	0.	30.
38	594.0	3638.0	0.	28.
39	594.0	3640.0	0.	26.
40	594.0	3642.0	0.	25.

ACCM RUN -AREA SOURCES- FOR CHARLESTON ACMA, SOUTH CAROLINA 10/25/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ	VERT	SO2	PARTICULATES
41	594.C	3644.0	0.	24.
42	594.C	3646.0	0.	23.
43	596.C	3620.0	0.	23.
44	596.C	3622.0	0.	24.
45	596.C	3624.0	0.	25.
46	596.C	3626.0	0.	28.
47	596.C	3628.0	0.	27.
48	596.C	3630.0	0.	28.
49	596.C	3632.0	0.	28.
50	596.C	3634.0	0.	29.
51	596.C	3636.0	0.	32.
52	596.C	3638.0	0.	27.
53	596.C	3640.0	0.	27.
54	596.C	3642.0	0.	25.
55	596.C	3644.0	0.	24.
56	596.C	3646.0	0.	23.
57	598.C	3620.0	0.	23.
58	598.C	3622.0	0.	25.
59	598.C	3624.0	0.	26.
60	598.C	3626.0	0.	27.
61	598.C	3628.0	0.	35.
62	598.C	3630.0	0.	33.
63	598.C	3632.0	0.	28.
64	598.C	3634.0	0.	28.
65	598.C	3636.0	0.	28.
66	598.C	3638.0	0.	26.
67	598.C	3640.0	0.	25.
68	598.C	3642.0	0.	24.
69	598.C	3644.0	0.	23.
70	598.C	3646.0	0.	22.
71	600.0	3620.0	0.	22.
72	600.0	3622.0	0.	23.
73	600.0	3624.0	0.	25.
74	600.0	3626.0	0.	28.
75	600.0	3628.0	0.	33.
76	600.0	3630.0	0.	30.
77	600.0	3632.0	0.	26.
78	600.0	3634.0	0.	25.
79	600.0	3636.0	0.	25.
80	600.C	3638.0	0.	24.

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ	VERT	SO2	PARTICULATES
81	600.0	3640.0	0.	24.
82	600.0	3642.0	0.	23.
83	600.0	3644.0	0.	22.
84	600.0	3646.0	0.	22.
85	602.0	3620.0	0.	21.
86	602.0	3622.0	0.	22.
87	602.0	3624.0	0.	22.
88	602.0	3626.0	0.	22.
89	602.0	3628.0	0.	23.
90	602.0	3630.0	0.	23.
91	602.0	3632.0	0.	23.
92	602.0	3634.0	0.	23.
93	602.0	3636.0	0.	23.
94	602.0	3638.0	0.	23.
95	602.0	3640.0	0.	22.
96	602.0	3642.0	0.	22.
97	602.0	3644.0	0.	22.
98	602.0	3646.0	0.	22.
99	604.0	3620.0	0.	20.
100	604.0	3622.0	0.	21.
101	604.0	3624.0	0.	21.
102	604.0	3626.0	0.	21.
103	604.0	3628.0	0.	22.
104	604.0	3630.0	0.	22.
105	604.0	3632.0	0.	22.
106	604.0	3634.0	0.	23.
107	604.0	3636.0	0.	22.
108	604.0	3638.0	0.	22.
109	604.0	3640.0	0.	22.
110	604.0	3642.0	0.	22.
111	604.0	3644.0	0.	23.
112	604.0	3646.0	0.	22.
113	606.0	3620.0	0.	19.
114	606.0	3622.0	0.	20.
115	606.0	3624.0	0.	20.
116	606.0	3626.0	0.	21.
117	606.0	3628.0	0.	22.
118	606.0	3630.0	0.	22.
119	606.0	3632.0	0.	22.
120	606.0	3634.0	0.	22.

ACDM RUN -AREA SOURCES- FOR CHARLESTON ACMA, SOUTH CAROLINA 10/25/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION (KILOMETERS)		EXPECTED ARITHMETIC MEAN (MICROGRAMS/CU. METER)	
	MOBIL	VEE1	SO2	PARTICULATES
121	606.0	3636.0	0.	22.
122	606.0	3638.0	0.	21.
123	606.0	3640.0	0.	21.
124	606.0	3642.0	0.	22.
125	606.0	3644.0	0.	22.
126	606.0	3646.0	0.	22.
127	608.0	3620.0	0.	19.
128	608.0	3622.0	0.	19.
129	608.0	3624.0	0.	20.
130	608.0	3626.0	0.	21.
131	608.0	3628.0	0.	23.
132	608.0	3630.0	0.	22.
133	608.0	3632.0	0.	22.
134	608.0	3634.0	0.	21.
135	608.0	3636.0	0.	21.
136	608.0	3638.0	0.	21.
137	608.0	3640.0	0.	21.
138	608.0	3642.0	0.	22.
139	608.0	3644.0	0.	22.
140	608.0	3646.0	0.	21.

ACDM RUN -AREA SOURCES- FOR CHARLESTON AQMA, SOUTH CAROLINA 10/25/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	61	75	62	51	76
1	0.32 %	1.06 %	0.25 %	0.07 %	0.41 %
	0.1144	0.3564	0.0832	0.0237	0.1233
2	0.30 %	1.43 %	0.18 %	0.07 %	0.57 %
	0.1071	0.4780	0.0586	0.0241	0.1703
3	0.28 %	2.43 %	0.23 %	0.06 %	0.62 %
	0.0998	0.8147	0.0748	0.0205	0.1837
4	0.58 %	3.40 %	0.32 %	0.10 %	0.88 %
	0.2040	1.1378	0.1055	0.0333	0.2608
5	1.47 %	1.50 %	0.60 %	0.14 %	0.88 %
	0.5180	0.5017	0.1967	0.0455	0.2605
6	13.10 %	1.51 %	1.81 %	0.35 %	1.34 %
	4.6282	0.5049	0.5943	0.1111	0.3974
7	1.24 %	3.30 %	0.81 %	0.19 %	1.92 %
	0.4272	1.1049	0.2661	0.0617	0.5715
8	0.33 %	8.40 %	0.30 %	0.07 %	0.98 %
	0.1159	2.8119	0.0968	0.0237	0.2911
9	0.85 %	4.73 %	0.92 %	0.21 %	5.71 %
	0.3017	1.5848	0.3009	0.0690	1.6982
10	2.07 %	1.20 %	1.28 %	0.15 %	1.08 %
	0.7314	0.4031	0.4188	0.0489	0.3200
11	5.81 %	0.48 %	1.38 %	0.19 %	0.59 %
	2.0547	0.1600	0.4521	0.0617	0.1765
12	2.44 %	0.57 %	2.84 %	0.18 %	1.13 %
	0.8618	0.1911	0.9292	0.0565	0.3345
13	1.15 %	1.67 %	1.71 %	0.23 %	3.86 %
	0.4052	0.5601	0.5585	0.0751	1.1479
14	1.18 %	1.44 %	1.70 %	0.36 %	4.32 %
	0.4161	0.4922	0.5557	0.1160	1.2852
15	0.87 %	0.28 %	10.02 %	0.17 %	0.58 %
	0.3071	0.0946	3.2823	0.0535	0.1729
16	0.12 %	0.04 %	0.27 %	0.04 %	0.07 %
	0.0442	0.0136	0.0870	0.0131	0.0215
17	0.35 %	0.11 %	1.56 %	0.07 %	0.18 %
	0.1220	0.0361	0.5104	0.0229	0.0524
18	0.16 %	0.04 %	0.18 %	0.03 %	0.05 %
	0.0557	0.0118	0.0605	0.0087	0.0150
19	0.26 %	0.19 %	0.27 %	0.22 %	0.22 %
	0.0923	0.0656	0.0882	0.0691	0.0652
20	0.77 %	0.59 %	0.68 %	0.40 %	0.61 %
	0.2712	0.1973	0.2222	0.1297	0.1827
21	0.42 %	0.54 %	0.40 %	0.26 %	0.55 %
	0.1479	0.1816	0.1313	0.0842	0.1626

ACCM RUN -AREA SOURCES- FOR CHARLESTON ACMA, SOUTH CAROLINA 10/25/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	61	72	62	51	76
22	0.56 %	0.52 %	0.48 %	0.25 %	0.48 %
	0.1583	0.1741	0.1567	0.0812	0.1422
23	0.56 %	0.57 %	0.57 %	0.51 %	0.61 %
	0.1526	0.1914	0.1858	0.1642	0.1805
24	0.07 %	0.09 %	0.06 %	0.05 %	0.09 %
	0.0231	0.0315	0.0210	0.0147	0.0281
25	1.15 %	1.06 %	1.26 %	1.58 %	1.27 %
	0.4056	0.3554	0.4135	0.5054	0.3771
26	2.66 %	2.58 %	2.80 %	2.98 %	2.84 %
	0.9286	0.8621	0.9165	0.9565	0.8433
27	2.15 %	2.06 %	2.32 %	2.53 %	2.35 %
	0.7590	0.6897	0.7595	0.8118	0.6994
28	1.70 %	1.67 %	1.85 %	2.05 %	1.89 %
	0.6026	0.5597	0.6054	0.6720	0.5626
29	2.87 %	2.95 %	3.12 %	3.25 %	3.35 %
	1.0150	0.9809	1.0221	1.0547	0.9943
30	1.34 %	1.35 %	1.43 %	1.71 %	1.50 %
	0.4752	0.4506	0.4678	0.5500	0.4468
31	0.57 %	0.54 %	0.60 %	0.78 %	0.59 %
	0.2017	0.1796	0.1971	0.2506	0.1741
32	0.17 %	0.16 %	0.21 %	0.32 %	0.20 %
	0.0602	0.0519	0.0674	0.1015	0.0601
33	1.05 %	0.70 %	1.12 %	1.54 %	0.85 %
	0.3710	0.2341	0.3669	0.4952	0.2524
34	0.45 %	0.36 %	0.54 %	0.70 %	0.43 %
	0.1600	0.1222	0.1778	0.2250	0.1271
35	0.28 %	0.24 %	0.31 %	0.42 %	0.28 %
	0.0891	0.0813	0.1025	0.1340	0.0818
36	0.55 %	0.30 %	0.59 %	0.47 %	0.41 %
	0.1945	0.1270	0.1930	0.1495	0.1222
37	2.09 %	1.13 %	1.89 %	1.18 %	1.27 %
	0.7371	0.3790	0.6204	0.3775	0.3763
38	0.27 %	0.23 %	0.28 %	0.32 %	0.27 %
	0.0543	0.0773	0.0903	0.1032	0.0806
39	0.43 %	0.37 %	0.47 %	0.71 %	0.44 %
	0.1526	0.1254	0.1537	0.2269	0.1314
40	0.33 %	0.25 %	0.34 %	0.46 %	0.27 %
	0.1179	0.0824	0.1126	0.1463	0.0796
41	0.17 %	0.14 %	0.18 %	0.25 %	0.16 %
	0.0596	0.0470	0.0578	0.0811	0.0463
42	0.36 %	0.29 %	0.35 %	0.60 %	0.31 %
	0.1263	0.0924	0.1158	0.1913	0.0927

ACDM RUN -AREA SOURCES- FOR CHARLESTON ACMA, SOUTH CAROLINA 10/25/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	51	75	62	51	76
43	0.21 %	0.20 %	0.25 %	0.35 %	0.23 %
	0.0793	0.0656	0.0806	0.1111	0.0673
44	0.66 %	0.41 %	0.64 %	1.20 %	0.49 %
	0.2326	0.1358	0.2109	0.3842	0.1448
45	0.26 %	0.25 %	0.32 %	0.73 %	0.32 %
	0.0519	0.0533	0.1051	0.2348	0.0952
46	0.10 %	0.08 %	0.12 %	0.30 %	0.08 %
	0.0336	0.0258	0.0396	0.0947	0.0227
47	0.09 %	0.06 %	0.12 %	0.40 %	0.07 %
	0.0331	0.0212	0.0402	0.1269	0.0206
48	0.54 %	0.31 %	0.68 %	1.88 %	0.36 %
	0.1907	0.1039	0.2219	0.6023	0.1064
49	0.53 %	0.34 %	0.54 %	1.22 %	0.40 %
	0.1870	0.1144	0.1763	0.3911	0.1200
50	0.19 %	0.14 %	0.22 %	0.45 %	0.17 %
	0.0675	0.0479	0.0710	0.1436	0.0496
51	0.74 %	0.39 %	0.65 %	3.87 %	0.47 %
	0.2598	0.1295	0.2126	1.2430	0.1387
52	0.39 %	0.23 %	0.54 %	11.75 %	0.26 %
	0.1385	0.0771	0.1783	3.7713	0.0780
53	0.72 %	0.61 %	1.00 %	3.72 %	0.78 %
	0.2537	0.2049	0.3271	1.1937	0.2330
54	0.51 %	0.41 %	0.75 %	2.16 %	0.40 %
	0.1802	0.1374	0.2441	0.6930	0.1192
55	2.16 %	1.52 %	2.78 %	2.70 %	1.60 %
	0.7630	0.5102	0.2112	0.8668	0.4753
56	0.95 %	0.90 %	1.40 %	0.63 %	1.23 %
	0.3498	0.3023	0.4598	0.2037	0.3645
57	0.57 %	0.70 %	0.59 %	0.49 %	0.72 %
	0.2005	0.2356	0.1925	0.1564	0.2136
58	1.02 %	1.45 %	1.12 %	0.93 %	1.31 %
	0.3550	0.4862	0.3678	0.2585	0.3893
59	0.40 %	0.55 %	0.40 %	0.34 %	0.64 %
	0.1400	0.1855	0.1308	0.1096	0.1907
60	0.02 %	0.03 %	0.03 %	0.02 %	0.03 %
	0.0076	0.0110	0.0091	0.0063	0.0104
61	0.07 %	0.02 %	0.02 %	0.02 %	0.03 %
	0.0061	0.0049	0.0074	0.0064	0.0084
62	4.38 %	4.98 %	4.58 %	3.93 %	5.46 %
	1.5476	1.6678	1.5003	1.2660	1.6216
63	2.20 %	2.16 %	2.37 %	2.51 %	2.43 %
	0.7763	0.7245	0.7755	0.8052	0.7232

ACDM RUN -AREA SOURCES- FOR CHARLESTON ACMA, SOUTH CAROLINA 10/25/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	61	75	62	51	76
64	2.97 %	3.04 %	3.28 %	3.70 %	3.51 %
	1.0496	1.0189	1.0735	1.1665	1.0419
65	4.05 %	4.48 %	4.53 %	4.93 %	5.19 %
	1.4229	1.5011	1.4841	1.5826	1.5435
66	1.43 %	1.48 %	1.59 %	1.87 %	1.72 %
	0.5044	0.4941	0.5213	0.6001	0.5101
67	1.50 %	1.50 %	1.70 %	2.06 %	1.77 %
	0.5294	0.5022	0.5566	0.6610	0.5264
68	3.11 %	3.04 %	3.36 %	3.67 %	3.40 %
	1.0585	1.0179	1.0993	1.1774	1.0092
69	0.90 %	0.90 %	1.05 %	1.51 %	1.04 %
	0.3171	0.3000	0.3433	0.4832	0.3105
70	0.15 %	0.11 %	0.15 %	0.22 %	0.12 %
	0.0548	0.0355	0.0506	0.0721	0.0371
71	0.08 %	0.06 %	0.10 %	0.23 %	0.06 %
	0.0277	0.0213	0.0321	0.0723	0.0187
72	5.51 %	6.08 %	5.92 %	5.64 %	6.82 %
	1.9464	2.0338	1.9386	1.8089	2.0259
73	4.63 %	5.06 %	5.08 %	5.21 %	5.79 %
	1.6380	1.6948	1.6624	1.6715	1.7211
74	5.23 %	6.01 %	5.71 %	5.10 %	6.75 %
	1.8470	2.0107	1.8688	1.6376	2.0049
BACK- GROUND	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
	0.	0.	0.	0.	0.
TOTAL	109.1 %	100.1 %	100.1 %	100.0 %	100.0 %
	32.3678	32.5003	32.7703	32.1029	29.7339

APPENDIX C

SOURCE DATA

SOURCE NUMBER	SOURCE ID.		SOURCE LOCATION (KILOMETERS)		SOURCE AREA SQUARE KILOMETERS	ANNUAL SOURCE EMISSION RATE (TONS/DAY)		STACK DATA			
			HORIZONTAL	VERTICAL		SO2	PART	HT (FT)	DIAM (FT)	VEL (FPS)	TEMP (DEG.F)
1	420	1 1	592.1	3673.0	0.0	0.211	0.014	60.0	2.5	17.0	300.
2	420	2 1	577.9	3686.8	0.0	0.0	0.068	20.0	0.0	0.0	77.
3	420	2 2	577.9	3686.8	0.0	0.0	0.137	20.0	0.0	0.0	77.
4	420	2 3	577.9	3686.8	0.0	0.0	0.178	20.0	0.0	0.0	77.
5	420	2 4	577.9	3686.8	0.0	0.0	0.055	20.0	0.0	0.0	77.
6	420	3 1	594.2	3678.7	0.0	3.326	0.074	168.0	6.5	89.9	250.
7	420	3 2	594.2	3678.7	0.0	3.326	0.074	168.0	6.5	89.9	250.
8	420	3 3	594.2	3678.7	0.0	22.068	7.153	300.0	13.0	73.0	300.
9	420	3 4	594.2	3678.7	0.0	22.068	7.153	300.0	13.0	73.0	300.
10	420	5 1	593.4	3696.0	0.0	0.288	0.422	54.0	5.0	50.0	600.
11	420	6 1	599.9	3653.5	0.0	81.209	0.310	400.0	28.0	58.0	289.
12	420	7 1	600.0	3650.0	0.0	0.197	0.022	50.0	5.2	40.0	525.
13	420	8 1	592.6	3673.1	0.0	0.296	0.019	15.0	2.0	30.0	475.
14	420	9 1	600.0	3697.0	0.0	0.058	0.005	30.0	2.0	30.0	475.
15	420	9 2	600.0	3697.0	0.0	0.058	0.005	30.0	2.0	30.0	425.
16	560	2 1	596.7	3636.7	0.0	0.830	0.321	250.0	12.5	11.5	550.
17	560	2 2	596.7	3636.7	0.0	0.830	0.321	250.0	12.5	11.5	550.
18	560	2 3	596.7	3636.7	0.0	0.830	0.321	250.0	12.5	11.5	550.
19	560	2 4	596.7	3636.7	0.0	0.830	0.321	250.0	12.5	11.5	550.
20	560	2 5	596.7	3636.7	0.0	0.830	0.321	250.0	12.5	11.5	550.
21	560	2 6	596.7	3636.7	0.0	0.041	0.003	53.0	2.5	30.0	450.
22	560	2 7	596.7	3636.7	0.0	0.041	0.003	53.0	2.5	30.0	450.
23	560	212	596.7	3636.7	0.0	0.151	0.011	30.0	3.0	30.0	500.
24	560	213	596.7	3636.7	0.0	0.151	0.011	30.0	3.0	30.0	500.
25	560	214	596.7	3636.7	0.0	0.074	0.005	29.0	2.8	30.0	475.
26	560	215	596.7	3636.7	0.0	0.074	0.005	29.0	2.8	30.0	475.
27	560	218	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
28	560	219	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
29	560	220	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
30	560	221	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
31	560	224	596.7	3636.7	0.0	0.022	0.003	25.0	2.0	30.0	400.
32	560	4 1	592.3	3636.2	0.0	0.0	0.096	35.0	3.9	32.6	140.
33	560	5 1	593.0	3638.0	0.0	0.0	0.096	35.0	10.0	12.8	150.
34	560	6 1	593.4	3634.5	0.0	0.0	0.008	10.0	0.0	0.0	70.
35	560	6 2	593.4	3634.5	0.0	0.0	0.008	35.0	3.0	7.1	70.
36	560	7 1	597.4	3628.7	0.0	0.041	0.003	25.0	3.5	40.0	420.
37	560	7 2	597.4	3628.7	0.0	0.041	0.003	25.0	3.5	40.0	420.
38	560	7 3	597.4	3628.7	0.0	0.025	0.003	25.0	2.5	40.0	425.
39	560	8 1	596.4	3640.2	0.0	8.129	0.571	96.0	6.5	58.8	400.
40	560	8 2	596.4	3640.2	0.0	8.129	0.570	96.0	6.5	58.8	400.
41	560	8 3	596.4	3640.2	0.0	0.118	0.296	103.0	6.0	46.3	510.
42	560	8 4	596.4	3640.2	0.0	2.132	1.655	118.0	8.0	60.8	420.
43	560	8 5	596.4	3640.2	0.0	8.129	0.112	187.0	9.8	50.0	400.
44	560	8 6	596.4	3640.2	0.0	0.0	0.041	118.0	3.0	23.6	140.
45	560	8 7	596.4	3640.2	0.0	0.0	0.042	118.0	3.0	39.2	150.
46	560	8 8	596.4	3640.2	0.0	0.0	0.071	124.0	3.5	17.2	200.
47	560	8 9	596.4	3640.2	0.0	0.0	0.074	205.0	6.0	7.7	212.
48	560	810	596.4	3640.2	0.0	0.0	0.167	205.0	6.0	7.7	212.
49	560	811	596.4	3640.2	0.0	0.575	0.488	210.0	6.7	68.1	300.
50	560	812	596.4	3640.2	0.0	0.600	0.775	150.0	7.5	44.0	300.
51	560	813	596.4	3640.2	0.0	1.408	0.411	212.0	7.8	22.3	350.
52	560	814	596.4	3640.2	0.0	1.362	0.490	250.0	3.5	45.7	300.
53	560	815	596.4	3640.2	0.0	1.362	0.299	250.0	4.5	76.2	300.

54	560	816	596.4	3640.2	0.0	0.0	0.107	112.0	2.3	87.7	160.
55	560	817	596.4	3640.2	0.0	0.0	0.088	112.0	9.3	87.7	160.
56	560	818	596.4	3640.2	0.0	0.0	0.271	112.0	9.3	87.7	160.
57	560	819	596.4	3640.2	0.0	0.0	0.348	114.0	5.8	39.7	170.
58	560	820	596.4	3640.2	0.0	0.003	0.003	75.0	5.3	45.3	425.
59	560	9 1	592.7	3637.4	0.0	0.0	0.066	34.0	4.2	42.3	200.
60	560	11 1	596.8	3633.3	0.0	0.236	0.016	65.0	4.0	17.2	300.
61	560	11 2	596.8	3633.3	0.0	0.0	0.003	65.0	4.0	17.2	300.
62	560	11 3	596.8	3633.3	0.0	0.0	0.022	79.0	1.9	29.4	172.
63	560	12 1	592.4	3635.4	0.0	0.0	0.005	10.0	0.0	0.0	70.
64	560	13 2	597.9	3632.1	0.0	0.0	0.003	150.0	5.5	21.0	200.
65	560	14 1	598.4	3632.6	0.0	0.0	0.003	65.0	1.3	14.8	135.
66	560	14 2	598.4	3632.6	0.0	0.0	0.003	55.0	2.5	25.0	100.
67	560	14 3	598.4	3632.6	0.0	1.707	0.016	150.0	4.0	20.0	170.
68	560	14 4	598.4	3632.6	0.0	0.0	0.132	100.0	6.0	29.0	140.
69	560	14 5	598.4	3632.6	0.0	0.0	0.112	100.0	6.0	29.5	90.
70	560	15 1	598.5	3631.7	0.0	0.0	0.014	30.0	3.5	40.0	550.
71	560	15 2	598.5	3631.7	0.0	0.655	0.047	50.0	4.2	30.0	550.
72	560	15 3	598.5	3631.7	0.0	0.655	0.047	50.0	4.2	30.0	550.
73	560	15 4	598.5	3631.7	0.0	0.227	0.016	30.0	3.7	30.0	600.
74	560	15 6	598.5	3631.7	0.0	0.077	0.005	21.0	2.0	30.0	700.
75	560	16 1	595.8	3638.7	0.0	0.159	0.011	60.0	3.8	30.4	450.
76	560	16 2	595.8	3638.7	0.0	0.159	0.011	60.0	3.8	30.4	450.
77	560	16 3	595.8	3638.7	0.0	0.0	0.003	40.0	0.0	0.0	90.
78	560	16 4	595.8	3638.7	0.0	0.0	0.003	40.0	0.0	0.0	90.
79	560	18 1	598.4	3633.5	0.0	0.0	0.247	100.0	9.8	42.0	185.
80	560	18 2	598.4	3633.5	0.0	0.0	0.329	100.0	9.8	42.0	185.
81	560	19 1	590.0	3640.0	0.0	0.584	0.090	68.0	6.8	12.5	450.
82	560	19 2	590.0	3640.0	0.0	0.584	0.090	68.0	6.8	12.5	450.
83	560	19 3	590.0	3640.0	0.0	0.584	0.090	68.0	6.8	12.5	450.
84	560	20 1	598.8	3632.6	0.0	0.088	0.008	40.0	1.7	30.0	600.
85	560	20 2	598.8	3632.6	0.0	0.088	0.008	40.0	1.7	30.0	600.
86	560	20 3	598.8	3632.6	0.0	0.074	0.005	40.0	1.7	30.0	600.
87	560	21 1	595.7	3639.8	0.0	0.055	0.003	55.0	4.0	40.0	475.
88	560	21 2	595.7	3639.8	0.0	0.055	0.003	55.0	4.0	40.0	475.
89	560	21 3	595.7	3639.8	0.0	0.082	0.008	56.0	4.5	40.0	475.
90	560	21 4	595.7	3639.8	0.0	0.123	0.011	56.0	4.5	40.0	475.
91	560	22 1	596.1	3638.1	0.0	0.159	0.011	29.0	1.7	30.0	390.
92	560	23 1	593.1	3638.0	0.0	0.0	0.055	60.0	3.6	60.0	240.
93	560	24 1	598.4	3627.7	0.0	0.022	0.003	150.0	6.0	40.0	375.
94	560	24 2	598.4	3627.7	0.0	0.022	0.003	150.0	6.0	40.0	375.
95	560	24 3	598.4	3627.7	0.0	0.022	0.003	150.0	6.0	40.0	375.
96	560	25 1	592.6	3625.0	0.0	0.008	0.044	46.0	2.7	43.0	160.
97	560	26 1	593.6	3633.8	0.0	0.033	0.003	70.0	2.5	40.0	435.
98	560	26 2	593.6	3633.8	0.0	0.0	0.003	40.0	0.0	0.0	70.
99	560	26 3	593.6	3633.8	0.0	0.0	0.005	40.0	0.0	0.0	70.
100	560	26 4	593.6	3633.8	0.0	0.0	0.011	40.0	0.0	0.0	70.
101	560	26 5	593.6	3633.8	0.0	0.0	0.036	30.0	2.0	106.1	250.
102	560	26 7	593.6	3633.8	0.0	0.0	0.282	70.0	3.0	28.3	400.
103	560	27 2	595.1	3632.5	0.0	0.0	0.110	40.0	0.0	0.0	77.
104	560	27 3	595.1	3632.5	0.0	0.0	0.121	40.0	0.0	0.0	77.
105	560	27 4	595.1	3632.5	0.0	0.0	0.055	40.0	0.0	0.0	77.
106	560	28 3	600.5	3627.5	0.0	0.0	0.008	40.0	2.0	21.2	77.
107	560	29 1	596.9	3632.4	0.0	0.847	0.244	125.0	11.0	85.2	350.
108	560	29 2	596.9	3632.4	0.0	1.082	0.315	125.0	11.0	85.2	350.
109	560	29 3	596.9	3632.4	0.0	2.679	0.767	125.0	11.3	44.0	350.
110	560	30 1	596.5	3556.4	0.0	0.085	0.005	21.0	1.3	32.5	475.
111	560	30 2	596.5	3556.4	0.0	0.0	0.088	80.0	4.5	22.0	110.
112	560	33 1	596.5	3630.6	0.0	0.0	0.003	30.0	2.7	15.0	500.
113	560	34 1	596.5	3627.0	0.0	0.0	0.005	30.0	0.0	0.0	80.
114	560	35 1	598.1	3631.1	0.0	0.0	0.019	22.0	1.0	8.0	90.

115	560 36 1	598.6	3635.0	0.0	0.0	0.008	30.0 2.6 15.0 1200.
116	560 37 1	595.7	3638.6	0.0	0.074	0.005	29.0 2.3 30.0 450.
117	560 37 2	595.7	3638.6	0.0	0.074	0.005	29.0 2.3 30.0 450.
118	560 39 1	596.2	3638.8	0.0	0.022	0.003	31.0 2.3 20.0 300.
119	560 39 2	596.2	3638.8	0.0	0.022	0.003	33.0 2.3 20.0 300.
120	560 40 1	594.5	3631.1	0.0	0.0	0.026	15.0 1.0 28.2 80.
121	560 40 2	594.5	3631.1	0.0	0.0	0.025	40.0 0.0 0.0 77.
122	560 44 1	595.3	3635.7	0.0	0.005	0.003	150.0 3.0 45.0 425.
123	560 46 1	598.3	3627.5	0.0	0.077	0.005	125.0 6.0 10.0 375.
124	560 49 1	595.0	3626.8	0.0	0.011	0.003	165.0 3.0 10.0 175.
125	560 49 2	595.0	3626.8	0.0	0.011	0.003	165.0 3.0 10.0 175.
126	560 10 1	597.6	3631.7	0.0	0.0	0.023	75.0 4.0 38.2 160.
127	560 10 2	597.6	3631.7	0.0	0.0	0.066	88.0 3.5 49.9 90.
128	560 17 2	596.3	3633.9	0.0	0.0	0.066	28.0 2.5 40.0 175.
129	560 17 3	595.3	3633.9	0.0	0.0	0.115	26.0 3.2 55.2 250.
130	TRACT 1.00	599.4	3626.6	0.80	0.0	0.045	10.0 0.0 0.0 0.
131	TRACT 2.00	600.3	3626.6	0.70	0.0	0.065	10.0 0.0 0.0 0.
132	TRACT 3.00	600.4	3627.4	0.60	0.0	0.051	10.0 0.0 0.0 0.
133	TRACT 4.00	595.6	3627.5	0.60	0.0	0.064	10.0 0.0 0.0 0.
134	TRACT 5.00	598.9	3627.3	0.70	0.0	0.085	10.0 0.0 0.0 0.
135	TRACT 6.00	598.3	3627.8	0.70	0.0	0.147	10.0 0.0 0.0 0.
136	TRACT 7.00	595.4	3628.3	0.70	0.0	0.088	10.0 0.0 0.0 0.
137	TRACT 8.00	600.2	3628.1	0.60	0.0	0.054	10.0 0.0 0.0 0.
138	TRACT 9.00	600.0	3629.1	1.00	0.0	0.169	10.0 0.0 0.0 0.
139	TRACT 10.00	598.8	3628.6	0.40	0.0	0.055	10.0 0.0 0.0 0.
140	TRACT 11.00	597.9	3628.4	1.00	0.0	0.073	10.0 0.0 0.0 0.
141	TRACT 12.00	598.5	3629.2	0.40	0.0	0.055	10.0 0.0 0.0 0.
142	TRACT 13.00	595.3	3629.7	1.00	0.0	0.138	10.0 0.0 0.0 0.
143	TRACT 14.00	595.3	3630.4	2.20	0.0	0.158	10.0 0.0 0.0 0.
144	TRACT 15.00	598.1	3630.2	0.50	0.0	0.041	10.0 0.0 0.0 0.
145	TRACT 16.00	597.4	3630.4	0.80	0.0	0.011	10.0 0.0 0.0 0.
146	TRACT 17.00	597.7	3629.6	1.10	0.0	0.023	10.0 0.0 0.0 0.
147	TRACT 18.00	597.1	3628.2	0.80	0.0	0.008	10.0 0.0 0.0 0.
148	TRACT 19.01	593.9	3623.9	9.90	0.0	0.175	10.0 0.0 0.0 0.
149	TRACT 19.02	596.8	3624.6	8.10	0.0	0.151	10.0 0.0 0.0 0.
150	TRACT 20.01	600.3	3622.5	20.60	0.0	0.129	10.0 0.0 0.0 0.
151	TRACT 20.02	597.3	3622.1	5.60	0.0	0.110	10.0 0.0 0.0 0.
152	TRACT 20.03	596.2	3617.4	65.80	0.0	0.485	10.0 0.0 0.0 0.
153	TRACT 20.04	600.9	3615.2	10.30	0.0	0.059	10.0 0.0 0.0 0.
154	TRACT 21.01	586.1	3624.0	83.30	0.0	1.752	10.0 0.0 0.0 0.
155	TRACT 21.02	587.7	3614.3	162.70	0.0	3.935	10.0 0.0 0.0 0.
156	TRACT 22.00	575.6	3613.9	116.80	0.0	5.250	10.0 0.0 0.0 0.
157	TRACT 23.00	564.0	3605.3	195.70	0.0	6.549	10.0 0.0 0.0 0.
158	TRACT 24.00	561.3	3624.4	306.50	0.0	13.294	10.0 0.0 0.0 0.
159	TRACT 25.00	575.8	3627.2	171.30	0.0	3.966	10.0 0.0 0.0 0.
160	TRACT 26.01	582.6	3634.3	107.70	0.0	1.324	10.0 0.0 0.0 0.
161	TRACT 26.02	590.4	3631.6	14.80	0.0	0.252	10.0 0.0 0.0 0.
162	TRACT 26.03	595.6	3630.7	13.00	0.0	0.422	10.0 0.0 0.0 0.
163	TRACT 27.00	591.8	3629.0	6.40	0.0	0.240	10.0 0.0 0.0 0.
164	TRACT 28.00	591.7	3627.3	10.30	0.0	0.123	10.0 0.0 0.0 0.
165	TRACT 29.00	595.0	3628.0	2.60	0.0	0.112	10.0 0.0 0.0 0.
166	TRACT 30.00	596.2	3626.8	5.20	0.0	0.319	10.0 0.0 0.0 0.
167	TRACT 31.01	584.7	3647.4	44.70	0.0	0.719	10.0 0.0 0.0 0.
168	TRACT 31.02	585.5	3637.0	22.50	0.0	0.672	10.0 0.0 0.0 0.
169	TRACT 31.03	588.0	3647.4	21.90	0.0	0.469	10.0 0.0 0.0 0.
170	TRACT 31.04	590.0	3643.6	4.40	0.0	0.256	10.0 0.0 0.0 0.
171	TRACT 31.05	590.8	3641.5	5.60	0.0	0.334	10.0 0.0 0.0 0.
172	TRACT 32.00	585.0	3640.6	13.30	0.0	0.306	10.0 0.0 0.0 0.
173	TRACT 33.00	593.0	3638.4	4.70	0.0	0.387	10.0 0.0 0.0 0.
174	TRACT 34.00	595.8	3650.5	6.10	0.0	0.154	10.0 0.0 0.0 0.
175	TRACT 35.00	594.7	3639.3	3.40	0.0	0.047	10.0 0.0 0.0 0.

176	TRACT 36.00	595.0	3637.9	1.70	0.0	0.035	10.0	0.0	0.0	0.
177	TRACT 37.00	595.0	3636.7	2.70	0.0	0.219	10.0	0.0	0.0	0.
178	TRACT 38.00	593.6	3635.8	5.10	0.0	0.278	10.0	0.0	0.0	0.
179	TRACT 39.00	592.3	3634.4	8.30	0.0	0.125	10.0	0.0	0.0	0.
180	TRACT 40.00	594.9	3634.8	1.50	0.0	0.264	10.0	0.0	0.0	0.
181	TRACT 41.00	595.7	3635.7	0.90	0.0	0.133	10.0	0.0	0.0	0.
182	TRACT 42.00	597.1	3636.0	4.90	0.0	0.393	10.0	0.0	0.0	0.
183	TRACT 43.00	596.9	3634.9	1.80	0.0	0.494	10.0	0.0	0.0	0.
184	TRACT 44.00	597.0	3633.2	4.90	0.0	0.036	10.0	0.0	0.0	0.
185	TRACT 45.00	598.6	3632.3	5.10	0.0	0.225	10.0	0.0	0.0	0.
186	TRACT 46.01	612.8	3639.4	83.10	0.0	1.164	10.0	0.0	0.0	0.
187	TRACT 46.02	607.8	3632.9	80.80	0.0	1.683	10.0	0.0	0.0	0.
188	TRACT 47.00	607.2	3628.4	4.40	0.0	0.411	10.0	0.0	0.0	0.
189	TRACT 48.00	608.2	3625.4	4.20	0.0	0.034	10.0	0.0	0.0	0.
190	TRACT 49.00	616.8	3629.9	11.90	0.0	0.062	10.0	0.0	0.0	0.
191	TRACT 50.00	632.0	3657.8	755.20	0.0	23.087	10.0	0.0	0.0	0.
192	TRACT 201	572.7	3678.1	390.80	0.0	7.569	10.0	0.0	0.0	0.
193	TRACT 202	594.4	3698.4	367.80	0.0	8.556	10.0	0.0	0.0	0.
194	TRACT 203	604.3	3681.9	290.00	0.0	10.046	10.0	0.0	0.0	0.
195	TRACT 205	585.1	3672.2	177.10	0.0	3.283	10.0	0.0	0.0	0.
196	TRACT 206	593.8	3662.0	114.10	0.0	2.236	10.0	0.0	0.0	0.
197	TRACT 207	586.6	3656.2	355.60	0.0	7.053	10.0	0.0	0.0	0.
198	TRACT 208	591.9	3648.5	24.70	0.0	0.854	10.0	0.0	0.0	0.
199	TRACT 209	590.6	3642.3	10.80	0.0	0.116	10.0	0.0	0.0	0.
200	TRACT 210	594.2	3640.4	3.40	0.0	0.075	10.0	0.0	0.0	0.
201	JAMESTOWN	623.6	3671.4	579.90	0.0	20.959	10.0	0.0	0.0	0.
202	CORDESVILLE	604.5	3668.6	257.00	0.0	9.288	10.0	0.0	0.0	0.
203	HUGER-BANDD	616.0	3645.5	303.10	0.0	10.956	10.0	0.0	0.0	0.

AQDM RUN -YEAR 1975- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

MIXING DEPTH = 900. METERS
 AMBIENT TEMPERATURE = 85. DEGREES, FAHRENHEIT
 AMBIENT PRESSURE = 1013. MILLIBARS

STABILITY CLASS 1

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00016	.00037	.0	.0	.0	.0
NNE	.00035	.00043	.0	.0	.0	.0
NE	.00025	.00027	.0	.0	.0	.0
ENE	.00012	.00032	.0	.0	.0	.0
E	.00012	.00011	.0	.0	.0	.0
ESE	.00008	.00007	.0	.0	.0	.0
SE	.00021	.00023	.0	.0	.0	.0
SSE	.00014	.00021	.0	.0	.0	.0
S	.00022	.00039	.0	.0	.0	.0
SSW	.00020	.00041	.0	.0	.0	.0
SW	.00023	.00030	.0	.0	.0	.0
WSW	.00030	.00055	.0	.0	.0	.0
W	.00013	.00027	.0	.0	.0	.0
WNW	.00019	.00016	.0	.0	.0	.0
NW	.00014	.00030	.0	.0	.0	.0
NNW	.00016	.00039	.0	.0	.0	.0

AQDM RUN -YEAR 1975- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 2

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00118	.00199	.00137	.0	.0	.0
NNE	.00120	.00178	.00203	.0	.0	.0
NE	.00074	.00153	.00094	.0	.0	.0
ENE	.00061	.00132	.00114	.0	.0	.0
E	.00060	.00068	.00066	.0	.0	.0
ESE	.00066	.00073	.00103	.0	.0	.0
SE	.00055	.00084	.00057	.0	.0	.0
SSE	.00032	.00050	.00105	.0	.0	.0
S	.00081	.00094	.00123	.0	.0	.0
SSW	.00080	.00162	.00160	.0	.0	.0
SW	.00070	.00146	.00137	.0	.0	.0
WSW	.00059	.00203	.00219	.0	.0	.0
W	.00062	.00142	.00158	.0	.0	.0
WNW	.00070	.00185	.00162	.0	.0	.0
NW	.00045	.00130	.00116	.0	.0	.0
NNW	.00085	.00160	.00126	.0	.0	.0

ACDM RUN -YEAR 1975- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

METFOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 3

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00061	.00297	.00507	.00064	.0	.00002
NNE	.00050	.00336	.00763	.00107	.0	.0
NE	.00064	.00265	.00543	.00073	.0	.0
ENE	.00025	.00158	.00363	.00055	.0	.0
E	.00019	.00084	.00253	.00080	.0	.0
ESE	.00035	.00130	.00288	.00096	.00002	.0
SE	.00016	.00100	.00313	.00084	.0	.0
SSE	.00039	.00139	.00358	.00066	.0	.0
S	.00040	.00185	.00461	.00110	.00002	.0
SSW	.00037	.00212	.00479	.00112	.00007	.0
SW	.00035	.00162	.00518	.00116	.0	.00002
WSW	.00020	.00183	.00667	.00160	.00011	.0
W	.00029	.00199	.00715	.00153	.00009	.00009
WNW	.00015	.00185	.00573	.00148	.00007	.0
NW	.00024	.00174	.00340	.00064	.00002	.0
NNW	.00028	.00187	.00361	.00075	.0	.0

AQDM RUN -YEAR 1975- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 4

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00115	.00676	.01562	.01377	.00190	.00027
NNF	.00124	.00694	.02078	.02002	.00148	.00005
NE	.00105	.00516	.01573	.01071	.00066	.00002
ENE	.00074	.00404	.00989	.00758	.00041	.00005
E	.00045	.00233	.00767	.00521	.00052	.00002
ESE	.00042	.00258	.00749	.00646	.00046	.00002
SE	.00060	.00233	.00740	.00477	.00037	.00009
SSE	.00046	.00276	.00776	.00646	.00066	.00014
S	.00069	.00345	.01500	.01370	.00199	.00027
SSW	.00055	.00349	.01441	.01664	.00263	.00053
SW	.00044	.00249	.01196	.01048	.00084	.00018
WSW	.00036	.00205	.00895	.01132	.00169	.00030
W	.00036	.00208	.00701	.01208	.00237	.00112
WNW	.00029	.00240	.00616	.01301	.00315	.00032
NW	.00039	.00217	.00527	.00612	.00107	.00023
NNW	.00079	.00404	.00827	.00888	.00148	.00039

AQDM RUN -YEAR 1975- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 5

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.01449	.02094	.00557	.0	.0	.0
NNE	.01232	.02007	.00751	.0	.0	.0
NE	.00796	.01201	.00422	.0	.0	.0
ENE	.00500	.00845	.00167	.0	.0	.0
E	.00347	.00653	.00183	.0	.0	.0
ESE	.00403	.00582	.00171	.0	.0	.0
SE	.00467	.00731	.00105	.0	.0	.0
SSE	.00618	.00945	.00144	.0	.0	.0
S	.01453	.02167	.00466	.0	.0	.0
SSW	.01126	.02078	.00744	.0	.0	.0
SW	.00673	.01406	.00913	.0	.0	.0
WSW	.00528	.01121	.00799	.0	.0	.0
W	.00396	.00849	.00845	.0	.0	.0
WNW	.00298	.00514	.00541	.0	.0	.0
NW	.00376	.00639	.00336	.0	.0	.0
NNW	.00891	.01416	.00406	.0	.0	.0

AQDM RUN -YEAR 1975- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

INPUT REGRESSION PARAMETERS ARE:

POLLUTANT	Y-INTERCEPT	SLOPE
PARTICULATES	0.0	1.0000

AQDM RUN -YEAR 1975- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ	VERT	SO ₂	PARTICULATES
1	590.0	3620.0	0.	47.
2	590.0	3622.0	0.	47.
3	590.0	3624.0	0.	48.
4	590.0	3626.0	0.	49.
5	590.0	3628.0	0.	49.
6	590.0	3630.0	0.	50.
7	590.0	3632.0	0.	50.
8	590.0	3634.0	0.	50.
9	590.0	3636.0	0.	51.
10	590.0	3638.0	0.	51.
11	590.0	3640.0	0.	50.
12	590.0	3642.0	0.	52.
13	590.0	3644.0	0.	51.
14	590.0	3646.0	0.	48.
15	592.0	3620.0	0.	47.
16	592.0	3622.0	0.	47.
17	592.0	3624.0	0.	48.
18	592.0	3626.0	0.	49.
19	592.0	3628.0	0.	52.
20	592.0	3630.0	0.	52.
21	592.0	3632.0	0.	53.
22	592.0	3634.0	0.	53.
23	592.0	3636.0	0.	53.
24	592.0	3638.0	0.	53.
25	592.0	3640.0	0.	51.
26	592.0	3642.0	0.	50.
27	592.0	3644.0	0.	49.
28	592.0	3646.0	0.	49.
29	594.0	3620.0	0.	47.
30	594.0	3622.0	0.	48.
31	594.0	3624.0	0.	50.
32	594.0	3626.0	0.	51.
33	594.0	3628.0	0.	52.
34	594.0	3630.0	0.	54.
35	594.0	3632.0	0.	56.
36	594.0	3634.0	0.	58.
37	594.0	3636.0	0.	58.
38	594.0	3638.0	0.	55.
39	594.0	3640.0	0.	53.
40	594.0	3642.0	0.	51.

AQDN RUN -YEAR 1975- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ	VERT	SO2	PARTICULATES
41	594.0	3644.0	0.	49.
42	594.0	3646.0	0.	48.
43	596.0	3620.0	0.	47.
44	596.0	3622.0	0.	49.
45	596.0	3624.0	0.	50.
46	596.0	3626.0	0.	53.
47	596.0	3628.0	0.	53.
48	596.0	3630.0	0.	54.
49	596.0	3632.0	0.	56.
50	596.0	3634.0	0.	59.
51	596.0	3636.0	0.	62.
52	596.0	3638.0	0.	56.
53	596.0	3640.0	0.	53.
54	596.0	3642.0	0.	51.
55	596.0	3644.0	0.	50.
56	596.0	3646.0	0.	48.
57	598.0	3620.0	0.	47.
58	598.0	3622.0	0.	49.
59	598.0	3624.0	0.	50.
60	598.0	3626.0	0.	53.
61	598.0	3628.0	0.	61.
62	598.0	3630.0	0.	60.
63	598.0	3632.0	0.	58.
64	598.0	3634.0	0.	56.
65	598.0	3636.0	0.	57.
66	598.0	3638.0	0.	53.
67	598.0	3640.0	0.	52.
68	598.0	3642.0	0.	51.
69	598.0	3644.0	0.	50.
70	598.0	3646.0	0.	48.
71	600.0	3620.0	0.	45.
72	600.0	3622.0	0.	47.
73	600.0	3624.0	0.	48.
74	600.0	3626.0	0.	52.
75	600.0	3628.0	0.	52.
76	600.0	3630.0	0.	56.
77	600.0	3632.0	0.	54.
78	600.0	3634.0	0.	53.
79	600.0	3636.0	0.	51.
80	600.0	3638.0	0.	51.

AQDM RUN -YEAR 1975- FOR CHARLESTON ACMA, SOUTH CAROLINA 11/11/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ	VERT	SO2	PARTICULATES
81	600.0	3640.0	0.	50.
82	600.0	3642.0	0.	49.
83	600.0	3644.0	0.	48.
84	600.0	3646.0	0.	48.
85	602.0	3620.0	0.	44.
86	602.0	3622.0	0.	45.
87	602.0	3624.0	0.	46.
88	602.0	3626.0	0.	46.
89	602.0	3628.0	0.	47.
90	602.0	3630.0	0.	48.
91	602.0	3632.0	0.	48.
92	602.0	3634.0	0.	48.
93	602.0	3636.0	0.	48.
94	602.0	3638.0	0.	48.
95	602.0	3640.0	0.	48.
96	602.0	3642.0	0.	48.
97	602.0	3644.0	0.	48.
98	602.0	3646.0	0.	47.
99	604.0	3620.0	0.	43.
100	604.0	3622.0	0.	44.
101	604.0	3624.0	0.	44.
102	604.0	3626.0	0.	45.
103	604.0	3628.0	0.	45.
104	604.0	3630.0	0.	46.
105	604.0	3632.0	0.	47.
106	604.0	3634.0	0.	47.
107	604.0	3636.0	0.	47.
108	604.0	3638.0	0.	47.
109	604.0	3640.0	0.	47.
110	604.0	3642.0	0.	47.
111	604.0	3644.0	0.	47.
112	604.0	3646.0	0.	47.
113	606.0	3620.0	0.	42.
114	606.0	3622.0	0.	43.
115	606.0	3624.0	0.	43.
116	606.0	3626.0	0.	44.
117	606.0	3628.0	0.	45.
118	606.0	3630.0	0.	45.
119	606.0	3632.0	0.	46.
120	606.0	3634.0	0.	46.

AQDM RUN -YEAR 1975- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HCRIZ	VERT	SO2	PARTICULATES
1	606.0	3620.0	0.	42.
2	606.0	3622.0	0.	43.
3	606.0	3624.0	0.	43.
4	606.0	3626.0	0.	44.
5	606.0	3628.0	0.	45.
6	606.0	3630.0	0.	45.
7	606.0	3632.0	0.	46.
8	606.0	3634.0	0.	46.
9	606.0	3636.0	0.	46.
10	606.0	3638.0	0.	46.
11	606.0	3640.0	0.	46.
12	606.0	3642.0	0.	47.
13	606.0	3644.0	0.	47.
14	606.0	3646.0	0.	46.
15	608.0	3620.0	0.	41.
16	608.0	3622.0	0.	42.
17	608.0	3624.0	0.	42.
18	608.0	3626.0	0.	43.
19	608.0	3628.0	0.	46.
20	608.0	3630.0	0.	45.
21	608.0	3632.0	0.	45.
22	608.0	3634.0	0.	45.
23	608.0	3636.0	0.	45.
24	608.0	3638.0	0.	45.
25	608.0	3640.0	0.	45.
26	608.0	3642.0	0.	46.
27	608.0	3644.0	0.	46.
28	608.0	3646.0	0.	46.
29	596.0	3636.0	0.	62.
30	598.0	3628.0	0.	61.
31	598.0	3630.0	0.	60.
32	596.0	3634.0	0.	59.
33	600.0	3628.0	0.	59.

AQDM RUN -YEAR 1975- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METR

SOURCE	RECEPTOR 29	RECEPTOR 30	RECEPTOR 31	RECEPTOR 33	RECEPTOR 32
1	0.01 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0032	0.0025	0.0026	0.0024	0.0030
2	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0076	0.0067	0.0068	0.0062	0.0075
3	0.02 %	0.02 %	0.02 %	0.02 %	0.03 %
	0.0153	0.0136	0.0137	0.0126	0.0151
4	0.03 %	0.03 %	0.03 %	0.03 %	0.03 %
	0.0192	0.0176	0.0178	0.0163	0.0197
5	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0061	0.0055	0.0055	0.0050	0.0061
6	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0011	0.0008	0.0009	0.0008	0.0010
7	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0011	0.0008	0.0009	0.0008	0.0010
8	0.10 %	0.08 %	0.09 %	0.09 %	0.10 %
	0.0623	0.0521	0.0540	0.0504	0.0600
9	0.10 %	0.08 %	0.09 %	0.09 %	0.10 %
	0.0623	0.0521	0.0540	0.0504	0.0600
10	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0068	0.0058	0.0060	0.0057	0.0065
11	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0013	0.0010	0.0010	0.0009	0.0012
12	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0026	0.0014	0.0015	0.0013	0.0022
13	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0044	0.0035	0.0036	0.0033	0.0041
14	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0007	0.0006	0.0007	0.0007	0.0007
15	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0007	0.0006	0.0007	0.0007	0.0007
16	0.01 %	0.04 %	0.04 %	0.03 %	0.07 %
	0.0080	0.0218	0.0245	0.0151	0.0415
17	0.01 %	0.04 %	0.04 %	0.03 %	0.07 %
	0.0080	0.0218	0.0245	0.0151	0.0415
18	0.01 %	0.04 %	0.04 %	0.03 %	0.07 %
	0.0080	0.0218	0.0245	0.0151	0.0415
19	0.01 %	0.04 %	0.04 %	0.03 %	0.07 %
	0.0080	0.0218	0.0245	0.0151	0.0415
20	0.01 %	0.04 %	0.04 %	0.03 %	0.07 %
	0.0080	0.0218	0.0245	0.0151	0.0415
21	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0151	0.0013	0.0017	0.0009	0.0067

AQDM RUN -YEAR 1975- FOR CHARLESTON AQPA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 29	RECEPTOR 30	RECEPTOR 31	RECEPTOR 33	RECEPTOR 32
22	0.02 % 0.0151	0.00 % 0.0013	0.00 % 0.0017	0.00 % 0.0009	0.01 % 0.0067
23	0.08 % 0.0514	0.01 % 0.0047	0.01 % 0.0061	0.01 % 0.0032	0.04 % 0.0240
24	0.08 % 0.0514	0.01 % 0.0047	0.01 % 0.0061	0.01 % 0.0032	0.04 % 0.0240
25	0.04 % 0.0266	0.00 % 0.0022	0.00 % 0.0028	0.00 % 0.0015	0.02 % 0.0113
26	0.04 % 0.0266	0.00 % 0.0022	0.00 % 0.0028	0.00 % 0.0015	0.02 % 0.0113
27	0.15 % 0.0908	0.01 % 0.0082	0.02 % 0.0105	0.01 % 0.0056	0.07 % 0.0418
28	0.15 % 0.0908	0.01 % 0.0082	0.02 % 0.0105	0.01 % 0.0056	0.07 % 0.0418
29	0.15 % 0.0908	0.01 % 0.0082	0.02 % 0.0105	0.01 % 0.0056	0.07 % 0.0418
30	0.15 % 0.0908	0.01 % 0.0082	0.02 % 0.0105	0.01 % 0.0056	0.07 % 0.0418
31	0.04 % 0.0241	0.00 % 0.0030	0.01 % 0.0038	0.00 % 0.0020	0.02 % 0.0123
32	0.12 % 0.0746	0.03 % 0.0207	0.03 % 0.0188	0.02 % 0.0129	0.08 % 0.0486
33	0.03 % 0.0156	0.01 % 0.0081	0.01 % 0.0089	0.01 % 0.0074	0.02 % 0.0129
34	0.03 % 0.0180	0.01 % 0.0047	0.01 % 0.0040	0.00 % 0.0026	0.03 % 0.0165
35	0.03 % 0.0178	0.01 % 0.0047	0.01 % 0.0040	0.00 % 0.0026	0.03 % 0.0163
36	0.00 % 0.0012	0.01 % 0.0057	0.01 % 0.0089	0.01 % 0.0030	0.00 % 0.0015
37	0.00 % 0.0012	0.01 % 0.0057	0.01 % 0.0089	0.01 % 0.0030	0.00 % 0.0015
38	0.00 % 0.0013	0.02 % 0.0102	0.02 % 0.0133	0.01 % 0.0034	0.00 % 0.0016
39	0.18 % 0.1110	0.06 % 0.0365	0.07 % 0.0428	0.05 % 0.0287	0.14 % 0.0814
40	0.18 % 0.1110	0.06 % 0.0365	0.07 % 0.0428	0.05 % 0.0287	0.14 % 0.0814
41	0.11 % 0.0165	0.03 % 0.0202	0.04 % 0.0240	0.03 % 0.0158	0.08 % 0.0472
42	0.30 % 0.1879	0.12 % 0.0756	0.15 % 0.0869	0.10 % 0.0599	0.26 % 0.1499

AQDM RUN -YEAR 1975- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 29	RECEPTOR 30	RECEPTOR 31	RECEPTOR 32	RECEPTOR 33
43	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0078	0.0040	0.0045	0.0032	0.0069
44	0.17 %	0.05 %	0.06 %	0.04 %	0.11 %
	0.1042	0.0291	0.0343	0.0231	0.0673
45	0.09 %	0.02 %	0.03 %	0.02 %	0.06 %
	0.0583	0.0145	0.0174	0.0117	0.0360
46	0.14 %	0.03 %	0.04 %	0.03 %	0.09 %
	0.0850	0.0211	0.0253	0.0170	0.0523
47	0.13 %	0.03 %	0.04 %	0.03 %	0.09 %
	0.0792	0.0212	0.0254	0.0172	0.0508
48	0.29 %	0.08 %	0.10 %	0.07 %	0.20 %
	0.1788	0.0481	0.0572	0.0388	0.1147
49	0.10 %	0.04 %	0.05 %	0.03 %	0.08 %
	0.0596	0.0247	0.0281	0.0195	0.0479
50	0.24 %	0.08 %	0.10 %	0.07 %	0.19 %
	0.1458	0.0497	0.0581	0.0390	0.1090
51	0.07 %	0.03 %	0.04 %	0.03 %	0.06 %
	0.0433	0.0187	0.0212	0.0148	0.0356
52	0.24 %	0.06 %	0.08 %	0.05 %	0.17 %
	0.1511	0.0398	0.0479	0.0311	0.1002
53	0.09 %	0.03 %	0.04 %	0.03 %	0.07 %
	0.0554	0.0124	0.0228	0.0152	0.0423
54	0.03 %	0.01 %	0.01 %	0.01 %	0.02 %
	0.0165	0.0057	0.0066	0.0045	0.0123
55	0.02 %	0.01 %	0.01 %	0.01 %	0.02 %
	0.0135	0.0047	0.0055	0.0037	0.0101
56	0.07 %	0.02 %	0.03 %	0.02 %	0.05 %
	0.0417	0.0144	0.0168	0.0114	0.0312
57	0.29 %	0.07 %	0.08 %	0.05 %	0.18 %
	0.1794	0.0400	0.0487	0.0316	0.1081
58	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0012	0.0003	0.0004	0.0002	0.0008
59	0.07 %	0.02 %	0.03 %	0.02 %	0.04 %
	0.0419	0.0143	0.0149	0.0102	0.0234
60	0.03 %	0.02 %	0.03 %	0.01 %	0.05 %
	0.0179	0.0112	0.0154	0.0065	0.0317
61	0.01 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0033	0.0021	0.0029	0.0012	0.0059
62	0.09 %	0.06 %	0.08 %	0.03 %	0.14 %
	0.0532	0.0347	0.0456	0.0192	0.0847
63	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0124	0.0030	0.0027	0.0017	0.0072

AQDM RUN -YEAR 1975- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 29	RECEPTOR 30	RECEPTOR 31	RECEPTOR 33	RECEPTOR 32
64	0.00 %	0.01 %	0.01 %	0.00 %	0.00 %
65	0.0013	0.0031	0.0045	0.0017	0.0017
66	0.01 %	0.01 %	0.03 %	0.01 %	0.01 %
67	0.0032	0.0071	0.0159	0.0045	0.0049
68	0.01 %	0.01 %	0.03 %	0.01 %	0.01 %
69	0.0032	0.0071	0.0154	0.0045	0.0047
70	0.01 %	0.03 %	0.05 %	0.02 %	0.02 %
71	0.0074	0.0165	0.0312	0.0104	0.0105
72	0.10 %	0.22 %	0.42 %	0.14 %	0.14 %
73	0.0598	0.1229	0.2479	0.0838	0.0834
74	0.09 %	0.20 %	0.43 %	0.13 %	0.14 %
75	0.0553	0.1213	0.2559	0.0761	0.0845
76	0.01 %	0.03 %	0.05 %	0.02 %	0.01 %
77	0.0053	0.0182	0.0319	0.0103	0.0069
78	0.03 %	0.10 %	0.17 %	0.06 %	0.04 %
79	0.0176	0.0506	0.1006	0.0344	0.0229
80	0.03 %	0.10 %	0.17 %	0.06 %	0.04 %
81	0.0176	0.0606	0.1006	0.0344	0.0229
82	0.01 %	0.04 %	0.08 %	0.02 %	0.01 %
83	0.0062	0.0216	0.0454	0.0122	0.0082
84	0.00 %	0.01 %	0.04 %	0.01 %	0.01 %
85	0.0021	0.0076	0.0234	0.0042	0.0029
86	0.03 %	0.01 %	0.01 %	0.00 %	0.02 %
87	0.0178	0.0034	0.0040	0.0024	0.0101
88	0.03 %	0.01 %	0.01 %	0.00 %	0.02 %
89	0.0178	0.0034	0.0040	0.0024	0.0101
90	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
91	0.0144	0.0023	0.0025	0.0016	0.0067
92	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
93	0.0144	0.0023	0.0025	0.0016	0.0067
94	0.04 %	0.07 %	0.11 %	0.05 %	0.06 %
95	0.0251	0.0451	0.0651	0.0306	0.0328
96	0.05 %	0.10 %	0.15 %	0.07 %	0.07 %
97	0.0235	0.0600	0.0857	0.0408	0.0437
98	0.03 %	0.02 %	0.02 %	0.02 %	0.03 %
99	0.0210	0.0123	0.0121	0.0092	0.0158
100	0.03 %	0.02 %	0.02 %	0.02 %	0.03 %
101	0.0210	0.0123	0.0121	0.0092	0.0158
102	0.03 %	0.02 %	0.02 %	0.02 %	0.03 %
103	0.0210	0.0123	0.0121	0.0092	0.0158
104	0.01 %	0.03 %	0.06 %	0.02 %	0.02 %
105	0.0073	0.0187	0.0329	0.0140	0.0095

AQDM RUN -YEAR 1975- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 29	RECEPTOR 30	RECEPTOR 31	RECEPTOR 33	RECEPTOR 32
85	0.01 %	0.03 %	0.06 %	0.02 %	0.02 %
	0.0073	0.0187	0.0329	0.0140	0.0095
86	0.01 %	0.02 %	0.03 %	0.01 %	0.01 %
	0.0046	0.0117	0.0206	0.0087	0.0059
87	0.01 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0033	0.0008	0.0010	0.0006	0.0021
88	0.01 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0033	0.0008	0.0010	0.0006	0.0021
89	0.01 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0040	0.0009	0.0010	0.0006	0.0024
90	0.01 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0054	0.0012	0.0014	0.0009	0.0034
91	0.10 %	0.01 %	0.02 %	0.01 %	0.05 %
	0.0628	0.0030	0.0107	0.0063	0.0287
92	0.05 %	0.02 %	0.02 %	0.02 %	0.04 %
	0.0313	0.0120	0.0131	0.0090	0.0245
93	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0002	0.0000	0.0007	0.0009	0.0002
94	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0002	0.0000	0.0007	0.0009	0.0002
95	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0002	0.0000	0.0007	0.0009	0.0002
96	0.04 %	0.21 %	0.13 %	0.20 %	0.05 %
	0.0266	0.1269	0.0802	0.1147	0.0293
97	0.01 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0033	0.0008	0.0009	0.0005	0.0041
98	0.01 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0061	0.0018	0.0017	0.0011	0.0081
99	0.02 %	0.00 %	0.00 %	0.00 %	0.02 %
	0.0101	0.0030	0.0028	0.0018	0.0135
100	0.04 %	0.01 %	0.01 %	0.01 %	0.05 %
	0.0222	0.0066	0.0062	0.0039	0.0297
101	0.07 %	0.02 %	0.02 %	0.01 %	0.09 %
	0.0408	0.0103	0.0108	0.0065	0.0532
102	0.50 %	0.13 %	0.14 %	0.09 %	0.66 %
	0.3114	0.0796	0.0831	0.0503	0.3854
103	0.15 %	0.43 %	0.88 %	0.37 %	0.20 %
	0.0920	0.2624	0.5254	0.2199	0.1201
104	0.16 %	0.47 %	0.97 %	0.41 %	0.23 %
	0.1013	0.2886	0.5780	0.2419	0.1321
105	0.07 %	0.21 %	0.44 %	0.19 %	0.10 %
	0.0460	0.1312	0.2627	0.1100	0.0600

AQOM RUN -YEAR 1975- FOR CHARLESTON AQWA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 29	RECEPTOR 30	RECEPTOR 31	RECEPTOR 33	RECEPTOR 32
106	0.01 %	0.02 %	0.02 %	0.21 %	0.01 %
	0.0025	0.0147	0.0092	0.1221	0.0041
107	0.01 %	0.01 %	0.01 %	0.01 %	0.00 %
	0.0058	0.0075	0.0051	0.0059	0.0022
108	0.01 %	0.01 %	0.01 %	0.01 %	0.00 %
	0.0068	0.0089	0.0059	0.0071	0.0025
109	0.07 %	0.08 %	0.07 %	0.06 %	0.04 %
	0.0409	0.0484	0.0405	0.0335	0.0226
110	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0005	0.0005	0.0005	0.0005	0.0005
111	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0081	0.0088	0.0084	0.0084	0.0082
112	0.00 %	0.02 %	0.06 %	0.01 %	0.01 %
	0.0022	0.0127	0.0330	0.0060	0.0030
113	0.01 %	0.04 %	0.02 %	0.01 %	0.01 %
	0.0052	0.0234	0.0129	0.0069	0.0067
114	0.03 %	0.12 %	0.74 %	0.05 %	0.04 %
	0.0164	0.0732	0.4408	0.0308	0.0240
115	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0062	0.0053	0.0081	0.0043	0.0082
116	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0109	0.0016	0.0019	0.0012	0.0051
117	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0109	0.0016	0.0019	0.0012	0.0051
118	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0126	0.0023	0.0028	0.0017	0.0066
119	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0126	0.0023	0.0028	0.0017	0.0066
120	0.11 %	0.04 %	0.07 %	0.03 %	0.17 %
	0.0666	0.0262	0.0387	0.0187	0.1023
121	0.07 %	0.03 %	0.05 %	0.02 %	0.12 %
	0.0462	0.0181	0.0268	0.0130	0.0709
122	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0023	0.0010	0.0012	0.0007	0.0027
123	0.00 %	0.00 %	0.01 %	0.01 %	0.00 %
	0.0014	0.0024	0.0065	0.0065	0.0015
124	0.00 %	0.01 %	0.01 %	0.02 %	0.00 %
	0.0016	0.0049	0.0053	0.0089	0.0017
125	0.00 %	0.01 %	0.01 %	0.02 %	0.00 %
	0.0016	0.0049	0.0051	0.0089	0.0017
126	0.02 %	0.05 %	0.10 %	0.02 %	0.03 %
	0.0112	0.0285	0.0609	0.0135	0.0186

AQDM RUN -YEAR 1975- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 29	RECEPTOR 30	RECEPTOR 31	RECEPTOR 33	RECEPTOR 32
127	0.11 %	0.29 %	0.49 %	0.14 %	0.18 %
	0.0703	0.1777	0.2896	0.0796	0.1041
128	0.43 %	0.14 %	0.17 %	0.08 %	1.16 %
	0.2635	0.0834	0.1034	0.0492	0.6890
129	0.39 %	0.10 %	0.14 %	0.07 %	0.49 %
	0.2410	0.0640	0.0824	0.0394	0.2866
130	0.04 %	0.17 %	0.14 %	0.64 %	0.05 %
	0.0251	0.1068	0.0827	0.3772	0.0273
131	0.05 %	0.16 %	0.11 %	0.85 %	0.05 %
	0.0282	0.1091	0.0631	0.4965	0.0302
132	0.03 %	0.14 %	0.11 %	1.26 %	0.04 %
	0.0213	0.0850	0.0664	0.7418	0.0253
133	0.06 %	0.30 %	0.18 %	2.01 %	0.06 %
	0.0360	0.1863	0.1042	1.1825	0.0349
134	0.09 %	0.89 %	0.36 %	1.07 %	0.11 %
	0.0533	0.5447	0.2128	0.6292	0.0639
135	0.17 %	7.69 %	0.92 %	0.83 %	0.23 %
	0.1081	4.7222	0.5492	0.4892	0.1366
136	0.09 %	0.70 %	0.34 %	1.56 %	0.09 %
	0.0534	0.4268	0.2031	0.9178	0.0531
137	0.04 %	0.19 %	0.14 %	4.91 %	0.05 %
	0.0243	0.1156	0.0835	2.8810	0.0291
138	0.13 %	0.76 %	0.51 %	3.30 %	0.18 %
	0.0832	0.4635	0.3029	1.9405	0.1041
139	0.06 %	1.19 %	0.49 %	0.52 %	0.06 %
	0.0386	0.7307	0.2899	0.3050	0.0378
140	0.10 %	3.55 %	0.76 %	0.26 %	0.13 %
	0.0608	2.1777	0.4520	0.1551	0.0787
141	0.07 %	1.25 %	1.08 %	0.25 %	0.07 %
	0.0434	0.7679	0.6443	0.1483	0.0434
142	0.14 %	0.93 %	1.05 %	1.02 %	0.17 %
	0.0851	0.5725	0.6223	0.5967	0.0997
143	0.17 %	0.78 %	1.10 %	0.75 %	0.23 %
	0.1076	0.4791	0.6571	0.4424	0.1356
144	0.07 %	0.37 %	4.37 %	0.13 %	0.07 %
	0.0403	0.2286	2.6014	0.0735	0.0431
145	0.02 %	0.07 %	0.14 %	0.02 %	0.03 %
	0.0126	0.0413	0.0852	0.0146	0.0192
146	0.04 %	0.21 %	0.87 %	0.06 %	0.05 %
	0.0222	0.1268	0.5156	0.0373	0.0318
147	0.01 %	0.09 %	0.11 %	0.02 %	0.02 %
	0.0082	0.0536	0.0640	0.0114	0.0105

AQDM RUN - YEAR 1975- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 29	RECEPTOR 30	RECEPTOR 31	RECEPTOR 33	RECEPTOR 32
148	0.19 %	0.28 %	0.27 %	0.22 %	0.24 %
	0.1147	0.1734	0.1625	0.1266	0.1406
149	0.17 %	0.39 %	0.32 %	0.31 %	0.21 %
	0.1070	0.2382	0.1920	0.1839	0.1258
150	0.08 %	0.15 %	0.14 %	0.20 %	0.10 %
	0.0524	0.0918	0.0822	0.1149	0.0582
151	0.10 %	0.25 %	0.20 %	0.25 %	0.12 %
	0.0603	0.1527	0.1196	0.1439	0.0689
152	0.29 %	0.38 %	0.36 %	0.39 %	0.33 %
	0.1820	0.2311	0.2136	0.2298	0.1926
153	0.03 %	0.04 %	0.04 %	0.06 %	0.03 %
	0.0160	0.0249	0.0226	0.0340	0.0170
154	0.94 %	0.77 %	0.82 %	0.70 %	1.03 %
	0.5822	0.4714	0.4902	0.4127	0.6026
155	1.68 %	1.73 %	1.74 %	1.69 %	1.85 %
	1.0420	1.0593	1.0333	0.9910	1.0830
156	1.66 %	1.54 %	1.61 %	1.49 %	1.81 %
	1.0253	0.9568	0.9586	0.8737	1.0590
157	1.40 %	1.28 %	1.33 %	1.24 %	1.46 %
	0.8668	0.7831	0.7896	0.7294	0.8556
158	2.11 %	1.89 %	2.00 %	1.92 %	2.19 %
	1.3064	1.1621	1.1932	1.1257	1.2839
159	1.08 %	0.86 %	0.89 %	0.85 %	1.06 %
	0.6656	0.5271	0.5292	0.4971	0.6210
160	0.46 %	0.36 %	0.36 %	0.33 %	0.45 %
	0.2859	0.2180	0.2149	0.1957	0.2640
161	0.28 %	0.15 %	0.17 %	0.13 %	0.30 %
	0.1725	0.0916	0.1019	0.0789	0.1747
162	0.75 %	0.54 %	0.57 %	0.37 %	0.93 %
	0.4623	0.3301	0.3401	0.2185	0.5428
163	0.36 %	0.23 %	0.28 %	0.18 %	0.42 %
	0.2205	0.1427	0.1664	0.1072	0.2478
164	0.16 %	0.12 %	0.14 %	0.10 %	0.19 %
	0.1019	0.0732	0.0824	0.0596	0.1095
165	0.20 %	0.26 %	0.30 %	0.18 %	0.27 %
	0.1222	0.1603	0.1806	0.1046	0.1586
166	0.50 %	1.03 %	0.93 %	0.59 %	0.66 %
	0.3090	0.6348	0.5532	0.3457	0.3856
167	0.25 %	0.22 %	0.22 %	0.19 %	0.28 %
	0.1559	0.1322	0.1308	0.1133	0.1636
168	0.48 %	0.34 %	0.35 %	0.29 %	0.47 %
	0.2992	0.2061	0.2069	0.1732	0.2777

AQDM RUN -YEAR 1975- FOR CHARLESTON ACMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 29	RECEPTOR 30	RECEPTOR 31	RECEPTOR 32	RECEPTOR 33	RECEPTOR 34
169	0.25 %	0.20 %	0.20 %	0.15 %	0.26 %	0.1575
	0.1575	0.1205	0.1173	0.0882	0.1546	0.1173
170	0.18 %	0.12 %	0.13 %	0.10 %	0.17 %	0.1110
	0.1110	0.0745	0.0745	0.0615	0.0989	0.0745
171	0.30 %	0.18 %	0.18 %	0.15 %	0.27 %	0.1887
	0.1887	0.1125	0.1072	0.0868	0.1588	0.1125
172	0.20 %	0.13 %	0.15 %	0.12 %	0.20 %	0.1220
	0.1220	0.0795	0.0892	0.0734	0.1199	0.0795
173	0.60 %	0.34 %	0.33 %	0.22 %	0.65 %	0.3687
	0.3687	0.2089	0.1969	0.1314	0.3821	0.2089
174	0.42 %	0.15 %	0.17 %	0.14 %	0.38 %	0.2622
	0.2622	0.0897	0.1034	0.0836	0.2210	0.0897
175	0.14 %	0.05 %	0.06 %	0.04 %	0.12 %	0.0871
	0.0871	0.0290	0.0349	0.0234	0.0688	0.0290
176	0.17 %	0.04 %	0.05 %	0.03 %	0.12 %	0.1029
	0.1029	0.0247	0.0308	0.0170	0.0714	0.0247
177	0.96 %	0.29 %	0.35 %	0.18 %	0.87 %	0.5961
	0.5961	0.1752	0.2095	0.1038	0.5092	0.1752
178	0.60 %	0.29 %	0.29 %	0.20 %	0.59 %	0.3731
	0.3731	0.1716	0.1719	0.1153	0.3485	0.1716
179	0.21 %	0.10 %	0.11 %	0.08 %	0.18 %	0.1316
	0.1316	0.0604	0.0636	0.0448	0.1046	0.0604
180	2.01 %	0.39 %	0.36 %	0.23 %	2.27 %	1.2425
	1.2425	0.2411	0.2118	0.1333	1.3309	0.2411
181	6.30 %	0.20 %	0.28 %	0.13 %	1.26 %	3.9021
	3.9021	0.1250	0.1661	0.0763	0.7380	0.1250
182	3.65 %	0.70 %	0.94 %	0.57 %	1.68 %	2.2593
	2.2593	0.4288	0.5593	0.3349	0.9864	0.4288
183	3.70 %	0.92 %	1.31 %	0.77 %	5.60 %	2.2885
	2.2885	0.5650	0.7783	0.4540	3.2827	0.5650
184	0.10 %	0.09 %	0.11 %	0.06 %	0.16 %	0.0598
	0.0598	0.0537	0.0657	0.0355	0.0932	0.0537
185	0.35 %	0.69 %	0.98 %	0.56 %	0.40 %	0.2137
	0.2137	0.4234	0.5806	0.3285	0.2337	0.4234
186	0.33 %	0.47 %	0.47 %	0.57 %	0.36 %	0.2020
	0.2020	0.2912	0.2790	0.3328	0.2132	0.2912
187	0.50 %	0.62 %	0.81 %	1.07 %	0.58 %	0.3117
	0.3117	0.5004	0.4822	0.6287	0.3387	0.5004
188	0.15 %	0.26 %	0.21 %	0.35 %	0.18 %	0.0902
	0.0902	0.1569	0.1230	0.2047	0.1048	0.1569
189	0.01 %	0.01 %	0.02 %	0.02 %	0.01 %	0.0069
	0.0069	0.0091	0.0103	0.0127	0.0068	0.0091

AQDM RUN -YEAR 1975- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/11/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	29	30	31	32	32
190	0.01 %	0.02 %	0.02 %	0.02 %	0.01 %
	0.0078	0.0101	0.0102	0.0114	0.0076
191	3.02 %	3.57 %	3.59 %	3.95 %	3.18 %
	1.8698	2.1914	2.1392	2.3196	1.8657
192	1.24 %	1.19 %	1.24 %	1.17 %	1.32 %
	0.7688	0.7316	0.7356	0.6896	0.7734
193	1.89 %	1.66 %	1.75 %	1.66 %	1.94 %
	1.1668	1.0170	1.0417	0.9774	1.1370
194	2.81 %	2.45 %	2.63 %	2.63 %	2.86 %
	1.7415	1.5064	1.5676	1.5471	1.6769
195	0.90 %	0.75 %	0.80 %	0.77 %	0.91 %
	0.5541	0.4579	0.4740	0.4517	0.5329
196	1.04 %	0.82 %	0.89 %	0.79 %	1.07 %
	0.6450	0.5004	0.5289	0.4668	0.6254
197	1.96 %	1.80 %	1.86 %	1.73 %	2.08 %
	1.2143	1.1021	1.1090	1.0145	1.2194
198	0.69 %	0.45 %	0.50 %	0.45 %	0.66 %
	0.4229	0.2746	0.2929	0.2644	0.3889
199	0.09 %	0.07 %	0.07 %	0.05 %	0.10 %
	0.0585	0.0407	0.0488	0.0281	0.0529
200	0.18 %	0.07 %	0.08 %	0.06 %	0.14 %
	0.1117	0.0416	0.0421	0.0335	0.0840
201	3.95 %	4.15 %	4.27 %	4.47 %	4.18 %
	2.4462	2.5444	2.5435	2.6231	2.4529
202	3.09 %	2.90 %	3.05 %	3.05 %	3.20 %
	1.9132	1.7806	1.8167	1.7910	1.8751
203	3.47 %	3.74 %	3.92 %	4.17 %	3.68 %
	2.1456	2.2984	2.3318	2.4486	2.1599
BACK-	32.31 %	32.59 %	33.60 %	34.06 %	34.10 %
GROUND	20	20	20	20	20
TOTAL	100.0 %	100.1 %	100.1 %	100.1 %	100.0 %
	61.9196	61.4117	59.5669	58.7544	58.6696

APPENDIX D

SOURCE DATA

SOURCE NUMBER	SOURCE ID.		SOURCE LOCATION (KILOMETERS)		SOURCE AREA SQUARE KILOMETERS	ANNUAL SOURCE EMISSION RATE (TONS/DAY)		STACK DATA			
			HORIZONTAL	VERTICAL		SQ2	PART	HT (FEET)	DIAM (FEET)	VEL (FPS)	TEMP (DEG.F)
1	420	1 1	592.1	3673.0	0.0	0.211	0.016	60.0	2.5	17.0	300.
2	420	2 1	577.9	3686.8	0.0	0.0	0.077	20.0	0.0	0.0	77.
3	420	2 2	577.9	3686.8	0.0	0.0	0.155	20.0	0.0	0.0	77.
4	420	2 3	577.9	3686.8	0.0	0.0	0.201	20.0	0.0	0.0	77.
5	420	2 4	577.9	3686.8	0.0	0.0	0.062	20.0	0.0	0.0	77.
6	420	3 1	594.2	3679.7	0.0	3.326	0.074	168.0	6.5	89.9	250.
7	420	3 2	594.2	3679.7	0.0	3.326	0.074	168.0	6.5	89.9	250.
8	420	3 3	594.2	3679.7	0.0	22.968	6.481	300.0	13.0	73.0	300.
9	420	3 4	594.2	3679.7	0.0	22.968	6.481	300.0	13.0	73.0	300.
10	420	5 1	593.4	3696.0	0.0	0.298	0.422	54.0	5.0	50.0	600.
11	420	6 1	599.9	3553.5	0.0	81.200	0.310	400.0	28.0	58.0	289.
12	420	7 1	600.0	3650.0	0.0	0.127	0.025	50.0	5.2	40.0	525.
13	420	8 1	592.6	3673.1	0.0	0.296	0.021	15.0	2.0	30.0	475.
14	420	9 1	600.0	3697.0	0.0	0.058	0.006	30.0	2.0	30.0	475.
15	420	9 2	600.0	3697.0	0.0	0.058	0.006	30.0	2.0	30.0	475.
16	560	2 1	596.7	3636.7	0.0	0.930	0.222	250.0	12.5	11.5	550.
17	560	2 2	596.7	3636.7	0.0	0.830	0.222	250.0	12.5	11.5	550.
18	560	2 3	596.7	3636.7	0.0	0.830	0.222	250.0	12.5	11.5	550.
19	560	2 4	596.7	3636.7	0.0	0.830	0.222	250.0	12.5	11.5	550.
20	560	2 5	596.7	3636.7	0.0	0.930	0.222	250.0	12.5	11.5	550.
21	560	2 6	596.7	3636.7	0.0	0.041	0.003	53.0	2.5	30.0	450.
22	560	2 7	596.7	3636.7	0.0	0.041	0.003	53.0	2.5	30.0	450.
23	560	212	596.7	3636.7	0.0	0.151	0.011	30.0	3.0	30.0	500.
24	560	213	596.7	3636.7	0.0	0.151	0.011	30.0	3.0	30.0	500.
25	560	214	596.7	3636.7	0.0	0.074	0.005	29.0	2.8	30.0	475.
26	560	215	596.7	3636.7	0.0	0.074	0.005	29.0	2.8	30.0	475.
27	560	218	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
28	560	219	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
29	560	220	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
30	560	221	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
31	560	224	596.7	3636.7	0.0	0.022	0.003	25.0	2.0	30.0	400.
32	560	4 1	592.3	3636.2	0.0	0.0	0.108	35.0	3.9	32.6	140.
33	560	5 1	584.0	3539.0	0.0	0.0	0.108	35.0	10.0	13.8	150.
34	560	6 1	593.4	3634.5	0.0	0.0	0.009	10.0	0.0	0.0	70.
35	560	6 2	593.4	3634.5	0.0	0.0	0.009	35.0	3.0	7.1	70.
36	560	7 1	597.4	3628.7	0.0	0.041	0.003	25.0	3.5	40.0	420.
37	560	7 2	597.4	3628.7	0.0	0.041	0.003	25.0	3.5	40.0	420.
38	560	7 3	597.4	3628.7	0.0	0.025	0.003	25.0	2.5	40.0	425.
39	560	9 1	596.4	3640.2	0.0	8.129	0.570	96.0	6.5	58.8	400.
40	560	9 2	596.4	3640.2	0.0	8.129	0.570	96.0	6.5	58.8	400.
41	560	9 3	596.4	3640.2	0.0	0.118	0.296	103.0	6.0	46.3	510.
42	560	9 4	596.4	3640.2	0.0	2.132	1.255	118.0	8.0	50.8	420.
43	560	9 5	596.4	3640.2	0.0	8.129	0.115	187.0	9.8	50.0	400.
44	560	9 6	596.4	3640.2	0.0	0.0	0.041	118.0	3.0	23.6	140.
45	560	9 7	596.4	3640.2	0.0	0.0	0.049	118.0	3.0	32.2	155.
46	560	9 8	596.4	3640.2	0.0	0.0	0.071	124.0	3.5	17.2	200.
47	560	9 9	596.4	3640.2	0.0	0.0	0.074	205.0	6.0	7.7	212.
48	560	910	596.4	3640.2	0.0	0.0	0.167	205.0	6.0	7.7	212.
49	560	911	596.4	3640.2	0.0	0.575	0.488	210.0	6.7	69.1	300.
50	560	912	596.4	3640.2	0.0	0.600	0.775	150.0	7.5	44.0	300.
51	560	913	596.4	3640.2	0.0	1.408	0.411	212.0	7.8	52.3	350.
52	560	914	596.4	3640.2	0.0	1.362	0.490	250.0	3.5	45.7	300.
53	560	915	596.4	3640.2	0.0	1.362	0.299	250.0	4.5	76.2	300.

54	560	816	556.4	3640.2	0.0	0.0	0.107	112.0	9.3	87.7	160.
55	560	817	556.4	3640.2	0.0	0.0	0.088	112.0	9.3	87.7	160.
56	560	818	556.4	3640.2	0.0	0.0	0.271	112.0	9.3	87.7	160.
57	560	819	556.4	3640.2	0.0	0.0	0.349	112.0	9.3	39.7	170.
58	560	820	556.4	3640.2	0.0	0.003	0.003	75.0	5.3	45.3	425.
59	560	9 1	552.7	3637.4	0.0	0.0	0.074	34.0	4.2	42.3	200.
60	560	11 1	556.8	3633.3	0.0	0.236	0.019	65.0	4.0	17.2	300.
61	560	11 2	556.8	3633.3	0.0	0.0	0.003	55.0	4.0	17.2	300.
62	560	11 3	556.8	3633.3	0.0	0.0	0.025	79.0	1.9	29.4	172.
63	560	12 1	553.4	3635.4	0.0	0.0	0.005	10.0	0.0	0.0	70.
64	560	13 2	557.9	3632.1	0.0	0.0	0.003	150.0	5.5	21.0	200.
65	560	14 1	558.4	3632.6	0.0	0.0	0.003	65.0	1.3	14.8	135.
66	560	14 2	558.4	3632.6	0.0	0.0	0.003	55.0	2.5	25.0	100.
67	560	14 3	558.4	3632.6	0.0	1.707	0.014	60.0	4.0	20.0	100.
68	560	14 4	558.4	3632.6	0.0	0.0	0.132	100.0	6.0	29.0	140.
69	560	14 5	558.4	3632.6	0.0	0.0	0.112	100.0	6.0	22.5	20.
70	560	15 1	558.5	3631.7	0.0	0.0	0.016	30.0	3.6	40.0	650.
71	560	15 2	558.5	3631.7	0.0	0.655	0.053	50.0	4.2	30.0	550.
72	560	15 3	558.5	3631.7	0.0	0.655	0.053	50.0	4.2	30.0	550.
73	560	15 4	558.5	3631.7	0.0	0.227	0.018	30.0	3.7	30.0	600.
74	560	15 6	558.5	3631.7	0.0	0.077	0.006	21.0	2.0	30.0	700.
75	560	15 1	555.8	3639.7	0.0	0.152	0.011	60.0	3.8	30.4	450.
76	560	16 2	555.8	3638.7	0.0	0.159	0.011	50.0	3.8	30.4	450.
77	560	16 3	555.8	3638.7	0.0	0.0	0.003	40.0	0.0	0.0	90.
78	560	16 4	555.8	3638.7	0.0	0.0	0.003	40.0	0.0	0.0	90.
79	560	18 1	558.4	3633.5	0.0	0.0	0.292	100.0	9.8	42.0	185.
80	560	18 2	558.4	3633.5	0.0	0.0	0.376	100.0	9.8	42.0	185.
81	560	19 1	550.0	3640.0	0.0	0.334	0.030	58.0	5.8	12.5	450.
82	560	19 2	550.0	3640.0	0.0	0.594	0.090	68.0	6.8	12.5	450.
83	560	19 3	550.0	3640.0	0.0	0.594	0.090	58.0	5.8	12.5	450.
84	560	20 1	558.8	3632.6	0.0	0.088	0.002	40.0	1.7	30.0	600.
85	560	20 2	558.8	3632.6	0.0	0.088	0.002	40.0	1.7	30.0	600.
86	560	20 3	558.8	3632.6	0.0	0.074	0.006	40.0	1.7	30.0	600.
87	560	21 1	555.7	3639.8	0.0	0.052	0.003	55.0	4.0	40.0	475.
88	560	21 2	555.7	3639.8	0.0	0.055	0.003	55.0	4.0	40.0	475.
89	560	21 3	555.7	3639.8	0.0	0.082	0.009	56.0	4.5	40.0	475.
90	560	21 4	555.7	3639.8	0.0	0.123	0.012	55.0	4.5	40.0	475.
91	560	22 1	556.1	3638.0	0.0	0.159	0.012	29.0	1.7	30.0	390.
92	560	23 1	553.1	3638.0	0.0	0.0	0.062	60.0	3.6	60.0	240.
93	560	24 1	558.4	3627.7	0.0	0.022	0.003	150.0	6.0	40.0	375.
94	560	24 2	558.4	3627.7	0.0	0.022	0.003	150.0	5.0	40.0	375.
95	560	24 3	558.4	3627.7	0.0	0.022	0.003	150.0	6.0	40.0	375.
96	560	25 1	553.6	3633.8	0.0	0.008	0.044	40.0	2.7	43.0	160.
97	560	26 1	553.6	3633.8	0.0	0.033	0.003	70.0	2.5	40.0	435.
98	560	26 2	553.6	3633.8	0.0	0.0	0.004	40.0	0.0	0.0	70.
99	560	26 3	553.6	3633.8	0.0	0.0	0.005	40.0	0.0	0.0	70.
100	560	26 4	553.6	3633.8	0.0	0.0	0.014	40.0	0.0	0.0	70.
101	560	26 5	553.6	3633.8	0.0	0.0	0.006	30.0	2.0	106.1	250.
102	560	26 7	553.6	3633.8	0.0	0.0	0.025	70.0	3.0	28.3	400.
103	560	27 2	559.1	3632.5	0.0	0.0	0.110	40.0	0.0	0.0	77.
104	560	27 3	559.1	3632.5	0.0	0.0	0.121	40.0	0.0	0.0	77.
105	560	27 4	559.1	3632.5	0.0	0.0	0.055	40.0	0.0	0.0	77.
106	560	28 3	556.5	3627.5	0.0	0.0	0.008	40.0	2.0	21.2	77.
107	560	29 1	556.9	3632.4	0.0	0.847	0.122	125.0	11.0	85.2	350.
108	560	29 2	556.9	3632.4	0.0	1.092	0.158	125.0	11.0	91.0	350.
109	560	29 3	556.9	3632.4	0.0	2.679	0.383	125.0	11.3	44.0	350.
110	560	30 1	558.5	3556.4	0.0	0.085	0.006	21.0	1.3	32.5	475.
111	560	30 2	558.5	3556.4	0.0	0.0	0.031	80.0	4.5	23.0	110.
112	560	31 1	558.5	3530.6	0.0	0.0	0.003	30.0	2.7	15.0	500.
113	560	34 1	556.3	3627.0	0.0	0.0	0.006	30.0	0.0	0.0	80.
114	560	35 1	558.1	3631.1	0.0	0.0	0.021	22.0	1.0	8.0	90.

115	560	36	1	559.6	3635.0	0.0	0.0	0.009	30.0	2.6	15.0	1200.
116	560	37	1	555.7	3638.5	0.0	0.074	0.005	29.0	2.3	30.0	450.
117	560	37	2	525.7	3639.6	0.0	0.074	0.006	29.0	2.3	30.0	450.
118	560	39	1	555.2	3638.8	0.0	0.022	0.003	31.0	2.3	20.0	300.
119	560	39	2	556.2	3639.8	0.0	0.022	0.003	33.0	2.3	20.0	300.
120	560	40	1	526.5	3631.1	0.0	0.0	0.041	15.0	1.0	28.2	90.
121	560	40	2	594.5	3631.1	0.0	0.0	0.028	40.0	0.0	0.0	77.
122	560	44	1	555.3	3635.7	0.0	0.005	0.003	150.0	3.0	45.0	425.
123	560	45	1	528.3	3627.5	0.0	0.077	0.005	125.0	6.0	10.0	375.
124	560	49	1	577.0	3626.8	0.0	0.011	0.003	165.0	3.0	10.0	175.
125	560	49	2	577.0	3625.8	0.0	0.011	0.003	165.0	3.0	10.0	175.
126	VERONA PT #1			599.2	3655.0	0.0	0.197	0.022	50.0	5.2	40.0	525.
127	DUPONT PT #1			599.4	3658.0	0.0	0.0	0.205	150.0	4.9	27.9	320.
128	DUPONT PT #2			599.4	3658.0	0.0	0.0	0.205	150.0	4.9	27.9	320.
129	DUPONT PT #3			599.4	3658.0	0.0	0.0	0.205	150.0	4.9	27.9	320.
130	DUPONT PT #4			599.4	3658.0	0.0	0.0	0.052	15.0	4.3	15.1	630.
131	AMCCO PT #1			604.2	3652.0	0.0	0.0	0.047	74.8	5.9	21.0	302.
132	AMCCO PT #2			604.2	3652.0	0.0	0.0	0.203	120.0	3.0	24.9	199.
133	AMCCO PT #3			604.2	3652.0	0.0	0.0	0.025	185.0	1.3	58.7	77.
134	AMCCO PT #4			604.2	3652.0	0.0	0.0	0.005	49.9	0.3	37.7	212.
135	AMCCO PT #5			604.2	3652.0	0.0	0.0	0.121	82.3	7.9	12.8	212.
136	AMCCO PT #6			604.2	3652.0	0.0	0.0	0.003	74.8	2.0	29.9	212.
137	AMCCO PT #7			604.2	3652.0	0.0	0.0	0.025	120.0	1.3	58.7	77.
138	AMCCO PT #8			604.2	3652.0	0.0	0.0	0.025	155.0	1.3	59.7	77.
139	AMCCO PT #9			604.2	3652.0	0.0	0.0	0.011	24.9	1.3	17.7	77.
140	TRACT 1.00			579.4	3626.6	0.80	0.0	0.043	10.0	0.0	0.0	0.
141	TRACT 2.00			600.3	3626.6	0.70	0.0	0.070	10.0	0.0	0.0	0.
142	TRACT 3.00			600.4	3627.4	0.50	0.0	0.053	10.0	0.0	0.0	0.
143	TRACT 4.00			599.6	3627.5	0.60	0.0	0.066	10.0	0.0	0.0	0.
144	TRACT 5.00			599.9	3627.3	0.70	0.0	0.080	10.0	0.0	0.0	0.
145	TRACT 6.00			598.3	3627.9	0.90	0.0	0.140	10.0	0.0	0.0	0.
146	TRACT 7.00			599.4	3628.3	0.70	0.0	0.083	10.0	0.0	0.0	0.
147	TRACT 8.00			598.2	3629.1	0.50	0.0	0.054	10.0	0.0	0.0	0.
148	TRACT 9.00			600.0	3629.1	1.00	0.0	0.195	10.0	0.0	0.0	0.
149	TRACT 10.00			598.9	3629.6	0.40	0.0	0.051	10.0	0.0	0.0	0.
150	TRACT 11.00			597.9	3628.4	1.00	0.0	0.069	10.0	0.0	0.0	0.
151	TRACT 12.00			599.5	3629.2	0.40	0.0	0.060	10.0	0.0	0.0	0.
152	TRACT 13.00			599.3	3629.7	1.00	0.0	0.124	10.0	0.0	0.0	0.
153	TRACT 14.00			599.3	3630.4	2.20	0.0	0.166	10.0	0.0	0.0	0.
154	TRACT 15.00			599.1	3630.2	0.50	0.0	0.048	10.0	0.0	0.0	0.
155	TRACT 16.00			597.4	3630.4	0.80	0.0	0.011	10.0	0.0	0.0	0.
156	TRACT 17.00			597.7	3629.5	1.10	0.0	0.020	10.0	0.0	0.0	0.
157	TRACT 18.00			597.1	3628.9	0.80	0.0	0.008	10.0	0.0	0.0	0.
158	TRACT 19.01			597.9	3629.9	9.90	0.0	0.092	10.0	0.0	0.0	0.
159	TRACT 19.02			596.9	3629.6	9.10	0.0	0.163	10.0	0.0	0.0	0.
160	TRACT 20.01			600.3	3622.5	20.50	0.0	0.183	10.0	0.0	0.0	0.
161	TRACT 20.02			597.3	3622.1	5.60	0.0	0.104	10.0	0.0	0.0	0.
162	TRACT 20.03			596.2	3617.4	65.80	0.0	0.507	10.0	0.0	0.0	0.
163	TRACT 20.04			600.9	3614.2	10.30	0.0	0.051	10.0	0.0	0.0	0.
164	TRACT 21.01			596.1	3624.0	83.30	0.0	1.934	10.0	0.0	0.0	0.
165	TRACT 21.02			597.7	3619.3	162.70	0.0	3.263	10.0	0.0	0.0	0.
166	TRACT 22.00			575.6	3613.9	116.80	0.0	5.248	10.0	0.0	0.0	0.
167	TRACT 23.00			574.0	3605.3	195.70	0.0	6.543	10.0	0.0	0.0	0.
168	TRACT 24.00			561.3	3625.4	306.50	0.0	13.279	10.0	0.0	0.0	0.
169	TRACT 25.00			574.8	3627.2	171.30	0.0	3.941	10.0	0.0	0.0	0.
170	TRACT 26.01			542.6	3634.3	107.70	0.0	1.311	10.0	0.0	0.0	0.
171	TRACT 26.02			570.4	3631.5	15.80	0.0	0.203	10.0	0.0	0.0	0.
172	TRACT 26.03			594.6	3630.7	13.00	0.0	0.465	10.0	0.0	0.0	0.
173	TRACT 27.00			591.8	3629.0	5.40	0.0	0.270	10.0	0.0	0.0	0.
174	TRACT 29.00			591.7	3627.3	10.30	0.0	0.132	10.0	0.0	0.0	0.
175	TRACT 29.00			595.0	3628.0	2.50	0.0	0.116	10.0	0.0	0.0	0.

176	TRACT 30.00	556.2	3626.8	5.20	0.0	0.367	10.0	0.0	0.0	0.
177	TRACT 31.01	584.7	3647.4	44.70	0.0	0.722	10.0	0.0	0.0	0.
178	TRACT 31.02	585.5	3637.0	22.50	0.0	0.705	10.0	0.0	0.0	0.
179	TRACT 31.03	588.0	3647.4	21.90	0.0	0.717	10.0	0.0	0.0	0.
180	TRACT 31.04	590.0	3643.5	4.40	0.0	0.231	10.0	0.0	0.0	0.
181	TRACT 31.05	590.8	3641.5	5.60	0.0	0.362	10.0	0.0	0.0	0.
182	TRACT 32.00	589.0	3640.5	13.30	0.0	0.294	10.0	0.0	0.0	0.
183	TRACT 33.00	593.0	3638.4	4.70	0.0	0.313	10.0	0.0	0.0	0.
184	TRACT 34.00	595.8	3640.5	6.10	0.0	0.155	10.0	0.0	0.0	0.
185	TRACT 35.00	594.7	3639.3	3.40	0.0	0.044	10.0	0.0	0.0	0.
186	TRACT 36.00	595.0	3637.2	1.70	0.0	0.029	10.0	0.0	0.0	0.
187	TRACT 37.00	595.0	3636.7	2.70	0.0	0.186	10.0	0.0	0.0	0.
188	TRACT 38.00	593.6	3635.8	5.10	0.0	0.318	10.0	0.0	0.0	0.
189	TRACT 39.00	592.3	3635.4	8.30	0.0	0.155	10.0	0.0	0.0	0.
190	TRACT 40.00	594.9	3634.8	1.50	0.0	0.293	10.0	0.0	0.0	0.
191	TRACT 41.00	595.7	3635.7	0.90	0.0	0.112	10.0	0.0	0.0	0.
192	TRACT 42.00	597.1	3636.0	4.20	0.0	0.374	10.0	0.0	0.0	0.
193	TRACT 43.00	596.9	3634.9	1.80	0.0	0.610	10.0	0.0	0.0	0.
194	TRACT 44.00	597.0	3633.2	4.90	0.0	0.035	10.0	0.0	0.0	0.
195	TRACT 45.00	599.5	3632.3	5.10	0.0	0.185	10.0	0.0	0.0	0.
196	TRACT 46.01	612.8	3637.4	83.10	0.0	1.150	10.0	0.0	0.0	0.
197	TRACT 46.02	607.8	3632.3	80.80	0.0	1.802	10.0	0.0	0.0	0.
198	TRACT 47.00	607.2	3629.4	4.40	0.0	0.399	10.0	0.0	0.0	0.
199	TRACT 48.00	608.2	3625.4	4.20	0.0	0.058	10.0	0.0	0.0	0.
200	TRACT 49.00	616.9	3629.9	11.90	0.0	0.113	10.0	0.0	0.0	0.
201	TRACT 50.00	632.0	3621.8	755.20	0.0	23.068	10.0	0.0	0.0	0.
202	TRACT 201	572.7	3679.1	390.00	0.0	7.585	10.0	0.0	0.0	0.
203	TRACT 202	574.4	3679.4	367.80	0.0	8.587	10.0	0.0	0.0	0.
204	TRACT 203	584.3	3631.2	230.00	0.0	10.057	10.0	0.0	0.0	0.
205	TRACT 205	585.1	3672.2	177.10	0.0	3.293	10.0	0.0	0.0	0.
206	TRACT 205	573.8	3652.0	114.10	0.0	2.238	10.0	0.0	0.0	0.
207	TRACT 207	586.6	3656.2	355.60	0.0	7.059	10.0	0.0	0.0	0.
208	TRACT 208	591.9	3648.5	24.70	0.0	0.859	10.0	0.0	0.0	0.
209	TRACT 209	590.6	3642.3	10.80	0.0	0.136	10.0	0.0	0.0	0.
210	TRACT 210	594.2	3640.4	3.40	0.0	0.037	10.0	0.0	0.0	0.
211	JAMESTOWN	623.6	3671.4	579.90	0.0	20.968	10.0	0.0	0.0	0.
212	CORNESVILLE	604.5	3668.6	257.00	0.0	9.292	10.0	0.0	0.0	0.
213	HUGER-WAND	610.0	3592.5	302.10	0.0	10.280	10.0	0.0	0.0	0.

ACDM RUN -YEAR 1980- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

MIXING DEPTH = 300. METERS
 AMBIENT TEMPERATURE = 65. DEGREES,FAHRENHEIT
 AMBIENT PRESSURE = 1013. MILLIBARS

STABILITY CLASS 1

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00015	.00037	.0	.0	.0	.0
NNE	.00035	.00043	.0	.0	.0	.0
NE	.00025	.00027	.0	.0	.0	.0
ENE	.00012	.00032	.0	.0	.0	.0
E	.00012	.00011	.0	.0	.0	.0
ESE	.00008	.00007	.0	.0	.0	.0
SE	.00021	.00023	.0	.0	.0	.0
SSE	.00014	.00021	.0	.0	.0	.0
S	.00022	.00039	.0	.0	.0	.0
SSW	.00020	.00041	.0	.0	.0	.0
SW	.00023	.00030	.0	.0	.0	.0
WSW	.00030	.00055	.0	.0	.0	.0
W	.00013	.00027	.0	.0	.0	.0
WNW	.00019	.00016	.0	.0	.0	.0
NW	.00014	.00030	.0	.0	.0	.0
NNW	.00015	.00039	.0	.0	.0	.0

ACDM RUN -YEAR 1980- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 2

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00118	.00199	.00137	.0	.0	.0
NNE	.00120	.00178	.00203	.0	.0	.0
NE	.00074	.00153	.00094	.0	.0	.0
ENE	.00061	.00132	.00114	.0	.0	.0
E	.00060	.00058	.00065	.0	.0	.0
ESE	.00066	.00073	.00103	.0	.0	.0
SE	.00055	.00084	.00057	.0	.0	.0
SSE	.00032	.00050	.00105	.0	.0	.0
S	.00081	.00094	.00123	.0	.0	.0
SSW	.00080	.00152	.00160	.0	.0	.0
SW	.00070	.00146	.00137	.0	.0	.0
WSW	.00059	.00203	.00219	.0	.0	.0
W	.00062	.00142	.00158	.0	.0	.0
WNW	.00070	.00185	.00162	.0	.0	.0
WW	.00045	.00130	.00115	.0	.0	.0
WNW	.00085	.00160	.00126	.0	.0	.0

AQDM RUN -YEAR 1980- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 3

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00051	.00297	.00507	.00054	.0	.00002
NNE	.00050	.00336	.00763	.00107	.0	.0
NE	.00064	.00265	.00543	.00073	.0	.0
NNE	.00025	.00158	.00363	.00055	.0	.0
E	.00019	.00084	.00253	.00080	.0	.0
ESE	.00035	.00130	.00298	.00095	.00002	.0
SE	.00016	.00100	.00313	.00084	.0	.0
SSE	.00039	.00139	.00358	.00066	.0	.0
S	.00040	.00185	.00461	.00110	.00002	.0
SSW	.00037	.00212	.00479	.00112	.00007	.0
SW	.00035	.00162	.00518	.00116	.0	.00002
WSW	.00020	.00183	.00667	.00160	.00011	.0
W	.00029	.00199	.00715	.00153	.00009	.00009
WNW	.00015	.00185	.00573	.00149	.00007	.0
NW	.00024	.00174	.00340	.00064	.00002	.0
NNW	.00029	.00187	.00351	.00075	.0	.0

AQDM RUN -YEAR 1980- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 4

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00115	.00676	.01562	.01377	.00190	.00027
NNE	.00124	.00694	.02078	.02002	.00148	.00005
NE	.00105	.00516	.01573	.01071	.00055	.00002
ENE	.00074	.00404	.00989	.00758	.00041	.00005
E	.00045	.00233	.00757	.00621	.00062	.00002
ESE	.00042	.00258	.00749	.00646	.00046	.00002
SE	.00060	.00233	.00740	.00477	.00037	.00009
SSE	.00046	.00276	.00776	.00545	.00065	.00014
S	.00069	.00345	.01500	.01370	.00199	.00027
SSW	.00055	.00349	.01441	.01664	.00263	.00053
SW	.00044	.00249	.01196	.01048	.00084	.00018
WSW	.00036	.00205	.00895	.01132	.00169	.00030
W	.00035	.00208	.00701	.01208	.00237	.00112
WNW	.00029	.00240	.00616	.01301	.00315	.00032
NW	.00039	.00217	.00527	.00612	.00107	.00023
NNW	.00079	.00404	.00827	.00888	.00148	.00039

ACDM RUN -YEAR 1980- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 5

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.01449	.02094	.00557	.0	.0	.0
NNE	.01232	.02007	.00751	.0	.0	.0
NE	.00796	.01201	.00422	.0	.0	.0
ENE	.00500	.00845	.00157	.0	.0	.0
E	.00347	.00653	.00183	.0	.0	.0
ESE	.00403	.00582	.00171	.0	.0	.0
SE	.00467	.00731	.00105	.0	.0	.0
SSE	.00618	.00945	.00144	.0	.0	.0
S	.01453	.02157	.00455	.0	.0	.0
SSW	.01126	.02018	.00744	.0	.0	.0
SW	.00673	.01406	.00913	.0	.0	.0
WSW	.00528	.01121	.00799	.0	.0	.0
W	.00396	.00849	.00945	.0	.0	.0
WNW	.00298	.00514	.00541	.0	.0	.0
NW	.00376	.00639	.00336	.0	.0	.0
NNW	.00891	.01416	.00406	.0	.0	.0

ACDM RUN -YEAR 1980- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

INPUT REGRESSION PARAMETERS ARE:

<u>POLLUTANT</u>	<u>Y-INTERCEPT</u>	<u>SLOPE</u>
PARTICULATES	0.0	1.0000

AQDM RUN -YEAR 1980- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

RECEPICE CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ	VERT	SO ₂	PARTICULATES
1	530.0	3520.0	0.	47.
2	590.0	3622.0	0.	47.
3	590.0	3524.0	0.	48.
4	590.0	3626.0	0.	49.
5	590.0	3628.0	0.	49.
6	570.0	3510.0	0.	50.
7	590.0	3632.0	0.	50.
8	590.0	3534.0	0.	50.
9	590.0	3616.0	0.	51.
10	590.0	3638.0	0.	51.
11	590.0	3640.0	0.	50.
12	590.0	3642.0	0.	52.
13	590.0	3644.0	0.	51.
14	590.0	3646.0	0.	48.
15	572.0	3620.0	0.	47.
16	572.0	3622.0	0.	47.
17	572.0	3624.0	0.	49.
18	572.0	3626.0	0.	50.
19	572.0	3529.0	0.	52.
20	572.0	3630.0	0.	52.
21	572.0	3632.0	0.	52.
22	572.0	3634.0	0.	53.
23	572.0	3636.0	0.	53.
24	572.0	3638.0	0.	53.
25	572.0	3640.0	0.	51.
26	572.0	3642.0	0.	51.
27	572.0	3644.0	0.	49.
28	572.0	3646.0	0.	49.
29	594.0	3620.0	0.	47.
30	594.0	3622.0	0.	49.
31	594.0	3624.0	0.	50.
32	594.0	3626.0	0.	51.
33	574.0	3628.0	0.	52.
34	594.0	3630.0	0.	54.
35	594.0	3632.0	0.	56.
36	594.0	3634.0	0.	57.
37	594.0	3636.0	0.	58.
38	594.0	3638.0	0.	55.
39	594.0	3640.0	0.	53.
40	594.0	3642.0	0.	51.

ACQM RUN -YEAR 1980- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ	VERT	SO ₂	PARTICULATES
41	594.0	3644.0	0.	50.
42	594.0	3646.0	0.	49.
43	594.0	3520.0	0.	47.
44	596.0	3622.0	0.	49.
45	596.0	3624.0	0.	50.
46	596.0	3626.0	0.	54.
47	596.0	3628.0	0.	53.
48	596.0	3630.0	0.	54.
49	596.0	3632.0	0.	55.
50	596.0	3634.0	0.	58.
51	596.0	3636.0	0.	61.
52	596.0	3638.0	0.	55.
53	596.0	3640.0	0.	53.
54	596.0	3642.0	0.	52.
55	596.0	3644.0	0.	50.
56	596.0	3646.0	0.	49.
57	598.0	3520.0	0.	47.
58	598.0	3622.0	0.	49.
59	598.0	3624.0	0.	51.
60	598.0	3626.0	0.	53.
61	598.0	3628.0	0.	51.
62	598.0	3630.0	0.	60.
63	598.0	3632.0	0.	58.
64	598.0	3634.0	0.	56.
65	598.0	3636.0	0.	57.
66	598.0	3638.0	0.	53.
67	598.0	3640.0	0.	52.
68	598.0	3642.0	0.	51.
69	598.0	3644.0	0.	50.
70	598.0	3646.0	0.	48.
71	600.0	3620.0	0.	46.
72	600.0	3622.0	0.	47.
73	600.0	3624.0	0.	49.
74	600.0	3626.0	0.	53.
75	600.0	3628.0	0.	52.
76	600.0	3630.0	0.	56.
77	600.0	3632.0	0.	54.
78	600.0	3634.0	0.	53.
79	600.0	3636.0	0.	51.
80	600.0	3638.0	0.	51.

ACCM RUN -YFAP 1980- FOR CHARLESTON ACMA, SOUTH CAROLINA 11/15/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ	VEBT	SC2	PARTICULATES
81	500.0	3540.0	0.	50.
82	600.0	3642.0	0.	49.
83	500.0	3544.0	0.	49.
84	600.0	3646.0	0.	48.
85	602.0	3520.0	0.	44.
86	602.0	3622.0	0.	45.
87	602.0	3524.0	0.	46.
88	602.0	3626.0	0.	47.
89	602.0	3628.0	0.	48.
90	502.0	3530.0	0.	49.
91	602.0	3532.0	0.	48.
92	602.0	3534.0	0.	48.
93	602.0	3636.0	0.	48.
94	602.0	3538.0	0.	48.
95	602.0	3640.0	0.	48.
96	602.0	3642.0	0.	48.
97	602.0	3644.0	0.	48.
98	602.0	3646.0	0.	48.
99	503.0	3520.0	0.	43.
100	604.0	3622.0	0.	44.
101	504.0	3524.0	0.	45.
102	604.0	3626.0	0.	45.
103	504.0	3528.0	0.	45.
104	604.0	3630.0	0.	46.
105	604.0	3632.0	0.	47.
106	604.0	3634.0	0.	47.
107	604.0	3636.0	0.	47.
108	504.0	3538.0	0.	47.
109	604.0	3640.0	0.	47.
110	504.0	3542.0	0.	48.
111	604.0	3644.0	0.	48.
112	504.0	3546.0	0.	47.
113	606.0	3620.0	0.	42.
114	606.0	3622.0	0.	43.
115	606.0	3624.0	0.	44.
116	606.0	3626.0	0.	44.
117	506.0	3528.0	0.	43.
118	606.0	3630.0	0.	46.
119	506.0	3532.0	0.	45.
120	606.0	3634.0	0.	46.

ACCM RUN -YEAR 1980- FOR CHARLESTON ACMA, SOUTH CAROLINA 11/15/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION (KILOMETERS)		EXPECTED ARITHMETIC MEAN (MICROGRAMS/CU. METER)	
	HORIZ	VERT	SO2	PARTICULATES
121	606.0	3636.0	0.	46.
122	606.0	3638.0	0.	46.
123	505.0	3640.0	0.	46.
124	606.0	3642.0	0.	47.
125	505.0	3644.0	0.	47.
126	606.0	3646.0	0.	47.
127	608.0	3620.0	0.	41.
128	608.0	3622.0	0.	42.
129	608.0	3624.0	0.	43.
130	608.0	3626.0	0.	44.
131	608.0	3628.0	0.	46.
132	509.0	3630.0	0.	42.
133	609.0	3632.0	0.	45.
134	508.0	3634.0	0.	45.
135	609.0	3636.0	0.	45.
136	608.0	3638.0	0.	45.
137	608.0	3640.0	0.	45.
138	608.0	3642.0	0.	46.
139	608.0	3644.0	0.	46.
140	608.0	3646.0	0.	46.

AQNM RUN -YEAR 1980- FOR CHARLESTON ACMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 51	RECEPTOR 61	RECEPTOR 62	RECEPTOR 75	RECEPTOR 50
1	0.01 %	0.00 %	0.01 %	0.00 %	0.01 %
	0.0036	0.0025	0.0030	0.0029	0.0035
2	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0096	0.0076	0.0077	0.0071	0.0095
3	0.03 %	0.03 %	0.03 %	0.02 %	0.03 %
	0.0173	0.0154	0.0155	0.0142	0.0171
4	0.04 %	0.03 %	0.03 %	0.03 %	0.04 %
	0.0224	0.0155	0.0201	0.0184	0.0222
5	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0069	0.0061	0.0062	0.0057	0.0069
6	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0011	0.0008	0.0009	0.0008	0.0010
7	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0011	0.0009	0.0009	0.0008	0.0010
8	0.09 %	0.08 %	0.08 %	0.08 %	0.09 %
	0.0564	0.0512	0.0589	0.0556	0.0543
9	0.09 %	0.08 %	0.08 %	0.08 %	0.09 %
	0.0564	0.0512	0.0589	0.0556	0.0543
10	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0059	0.0059	0.0060	0.0057	0.0065
11	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0013	0.0010	0.0010	0.0009	0.0012
12	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0029	0.0015	0.0018	0.0015	0.0025
13	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0048	0.0039	0.0040	0.0036	0.0046
14	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0009	0.0009	0.0008	0.0008	0.0009
15	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0009	0.0008	0.0008	0.0008	0.0009
16	0.01 %	0.02 %	0.03 %	0.02 %	0.05 %
	0.0055	0.0151	0.0170	0.0104	0.0297
17	0.01 %	0.02 %	0.03 %	0.02 %	0.05 %
	0.0055	0.0151	0.0170	0.0104	0.0297
18	0.01 %	0.02 %	0.03 %	0.02 %	0.05 %
	0.0055	0.0151	0.0170	0.0104	0.0297
19	0.01 %	0.02 %	0.03 %	0.02 %	0.05 %
	0.0055	0.0151	0.0170	0.0104	0.0297
20	0.01 %	0.02 %	0.03 %	0.02 %	0.05 %
	0.0055	0.0151	0.0170	0.0104	0.0297
21	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0151	0.0013	0.0017	0.0009	0.0057

ACCM RUN -YEAR 1980- FOR CHARLESTON ACMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 51	RECEPTOR 51	RECEPTOR 62	RECEPTOR 15	RECEPTOR 50
22	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
23	0.0151	0.0013	0.0017	0.0009	0.0067
24	0.0319	0.0057	0.0051	0.0032	0.0250
25	0.04 %	0.00 %	0.00 %	0.00 %	0.02 %
26	0.0255	0.0022	0.0028	0.0015	0.0113
27	0.04 %	0.00 %	0.00 %	0.00 %	0.02 %
28	0.15 %	0.01 %	0.02 %	0.01 %	0.07 %
29	0.0908	0.0082	0.0105	0.0055	0.0419
30	0.15 %	0.01 %	0.02 %	0.01 %	0.07 %
31	0.0768	0.0082	0.0105	0.0055	0.0418
32	0.15 %	0.01 %	0.02 %	0.01 %	0.07 %
33	0.0908	0.0082	0.0105	0.0055	0.0419
34	0.04 %	0.00 %	0.01 %	0.00 %	0.02 %
35	0.0251	0.0030	0.0039	0.0020	0.0123
36	0.14 %	0.04 %	0.04 %	0.02 %	0.09 %
37	0.0939	0.0232	0.0212	0.0145	0.0547
38	0.01 %	0.01 %	0.02 %	0.01 %	0.02 %
39	0.0175	0.0091	0.0100	0.0084	0.0144
40	0.01 %	0.01 %	0.01 %	0.01 %	0.03 %
41	0.0202	0.0053	0.0055	0.0030	0.0195
42	0.01 %	0.01 %	0.01 %	0.01 %	0.03 %
43	0.0201	0.0052	0.0044	0.0030	0.0184
44	0.00 %	0.01 %	0.01 %	0.01 %	0.00 %
45	0.0012	0.0037	0.0032	0.0020	0.0015
46	0.00 %	0.01 %	0.01 %	0.01 %	0.00 %
47	0.0012	0.0051	0.0083	0.0030	0.0013
48	0.00 %	0.02 %	0.02 %	0.01 %	0.00 %
49	0.0013	0.0102	0.0133	0.0034	0.0015
50	0.18 %	0.06 %	0.07 %	0.05 %	0.14 %
51	0.1110	0.0365	0.0428	0.0297	0.0814
52	0.18 %	0.06 %	0.07 %	0.05 %	0.14 %
53	0.1110	0.0365	0.0428	0.0297	0.0814
54	0.11 %	0.03 %	0.04 %	0.03 %	0.09 %
55	0.0605	0.0202	0.0240	0.0158	0.0472
56	0.31 %	0.12 %	0.14 %	0.10 %	0.26 %
57	0.1879	0.0756	0.0864	0.0522	0.1422

ADCM RUN -YEAR 1980- FOR CHARLESTON ACMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	51	61	52	75	50
43	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0080	0.0051	0.0045	0.0033	0.0071
44	0.17 %	0.05 %	0.06 %	0.04 %	0.12 %
	0.1042	0.0291	0.0343	0.0231	0.0573
45	0.10 %	0.02 %	0.03 %	0.02 %	0.06 %
	0.0583	0.0145	0.0174	0.0117	0.0350
46	0.14 %	0.03 %	0.04 %	0.03 %	0.09 %
	0.0850	0.0211	0.0253	0.0170	0.0523
47	0.13 %	0.03 %	0.04 %	0.03 %	0.09 %
	0.0792	0.0213	0.0254	0.0172	0.0508
48	0.29 %	0.08 %	0.10 %	0.07 %	0.20 %
	0.1788	0.0481	0.0572	0.0388	0.1147
49	0.10 %	0.04 %	0.05 %	0.03 %	0.08 %
	0.0596	0.0241	0.0281	0.0195	0.0479
50	0.24 %	0.09 %	0.10 %	0.07 %	0.19 %
	0.1458	0.0497	0.0581	0.0390	0.1039
51	0.07 %	0.03 %	0.04 %	0.03 %	0.06 %
	0.0433	0.0187	0.0212	0.0148	0.0355
52	0.25 %	0.07 %	0.08 %	0.05 %	0.17 %
	0.1511	0.0358	0.0419	0.0311	0.1002
53	0.09 %	0.03 %	0.04 %	0.03 %	0.07 %
	0.0554	0.0194	0.0228	0.0152	0.0423
54	0.03 %	0.01 %	0.01 %	0.01 %	0.02 %
	0.0145	0.0057	0.0066	0.0045	0.0123
55	0.02 %	0.01 %	0.01 %	0.01 %	0.02 %
	0.0135	0.0054	0.0055	0.0037	0.0101
56	0.07 %	0.02 %	0.03 %	0.02 %	0.05 %
	0.0417	0.0144	0.0168	0.0114	0.0312
57	0.29 %	0.07 %	0.08 %	0.05 %	0.19 %
	0.1794	0.0480	0.0487	0.0316	0.1081
58	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0012	0.0003	0.0004	0.0002	0.0008
59	0.08 %	0.03 %	0.03 %	0.02 %	0.05 %
	0.0470	0.0160	0.0167	0.0115	0.0263
60	0.03 %	0.02 %	0.03 %	0.01 %	0.06 %
	0.0201	0.0127	0.0174	0.0073	0.0357
61	0.01 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0033	0.0021	0.0029	0.0012	0.0029
62	0.10 %	0.06 %	0.09 %	0.04 %	0.17 %
	0.0604	0.0394	0.0518	0.0218	0.0963
63	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0124	0.0036	0.0027	0.0017	0.0072

AQCM RUN - YEAR 1990- FOR CHARLESTON ACMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 51	RECEPTOR 61	RECEPTOR 62	RECEPTOR 75	RECEPTOR 50
64	0.00 %	0.01 %	0.01 %	0.00 %	0.00 %
65	0.0013	0.0031	0.0045	0.0017	0.0017
66	0.01 %	0.01 %	0.03 %	0.01 %	0.01 %
67	0.0022	0.0071	0.0159	0.0045	0.0045
68	0.01 %	0.01 %	0.03 %	0.01 %	0.01 %
69	0.0032	0.0071	0.0159	0.0045	0.0045
70	0.02 %	0.05 %	0.11 %	0.04 %	0.04 %
71	0.0146	0.0228	0.0668	0.0209	0.0209
72	0.10 %	0.22 %	0.41 %	0.14 %	0.14 %
73	0.0528	0.1329	0.2473	0.0838	0.0838
74	0.07 %	0.20 %	0.43 %	0.13 %	0.14 %
75	0.0553	0.1213	0.2559	0.0761	0.0845
76	0.01 %	0.03 %	0.06 %	0.02 %	0.01 %
77	0.0060	0.0268	0.0365	0.0118	0.0079
78	0.03 %	0.11 %	0.19 %	0.07 %	0.04 %
79	0.0128	0.0683	0.1134	0.0388	0.0258
80	0.03 %	0.11 %	0.19 %	0.07 %	0.04 %
81	0.0196	0.0683	0.1134	0.0388	0.0258
82	0.01 %	0.04 %	0.09 %	0.02 %	0.02 %
83	0.0070	0.0243	0.0511	0.0137	0.0093
84	0.00 %	0.01 %	0.05 %	0.01 %	0.01 %
85	0.0025	0.0091	0.0281	0.0050	0.0035
86	0.03 %	0.01 %	0.01 %	0.00 %	0.02 %
87	0.0178	0.0534	0.0840	0.0024	0.0101
88	0.02 %	0.01 %	0.01 %	0.00 %	0.02 %
89	0.0178	0.0534	0.0840	0.0024	0.0101
90	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
91	0.0144	0.0023	0.0026	0.0016	0.0067
92	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
93	0.0144	0.0023	0.0026	0.0016	0.0067
94	0.05 %	0.08 %	0.12 %	0.06 %	0.06 %
95	0.0287	0.0515	0.0743	0.0349	0.0375
96	0.06 %	0.11 %	0.17 %	0.08 %	0.09 %
97	0.0392	0.0686	0.0721	0.0466	0.0500
98	0.03 %	0.02 %	0.02 %	0.02 %	0.03 %
99	0.0210	0.0123	0.0121	0.0092	0.0158
100	0.03 %	0.02 %	0.02 %	0.02 %	0.03 %
101	0.0210	0.0123	0.0121	0.0092	0.0158
102	0.03 %	0.02 %	0.02 %	0.02 %	0.03 %
103	0.0210	0.0123	0.0121	0.0092	0.0158
104	0.01 %	0.03 %	0.06 %	0.03 %	0.02 %
105	0.0092	0.0215	0.0370	0.0157	0.0106

ACCM FOR YEAR 1980- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 51	RECEPTOR 61	RECEPTOR 62	RECEPTOR 75	RECEPTOR 50
F5	0.01 %	0.03 %	0.06 %	0.03 %	0.02 %
F6	0.0002	0.0210	0.0370	0.0157	0.0106
F7	0.01 %	0.02 %	0.04 %	0.02 %	0.01 %
F8	0.0055	0.0140	0.0247	0.0105	0.0071
F9	0.01 %	0.00 %	0.00 %	0.00 %	0.00 %
F10	0.0033	0.0008	0.0010	0.0006	0.0021
F11	0.01 %	0.00 %	0.00 %	0.00 %	0.00 %
F12	0.0033	0.0008	0.0010	0.0006	0.0021
F13	0.01 %	0.00 %	0.00 %	0.00 %	0.00 %
F14	0.0044	0.0010	0.0012	0.0007	0.0027
F15	0.01 %	0.00 %	0.00 %	0.00 %	0.01 %
F16	0.0059	0.0013	0.0016	0.0010	0.0037
F17	0.11 %	0.02 %	0.02 %	0.01 %	0.05 %
F18	0.0085	0.0096	0.0117	0.0068	0.0214
F19	0.04 %	0.02 %	0.02 %	0.02 %	0.05 %
F20	0.0253	0.0135	0.0147	0.0102	0.0276
F21	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
F22	0.0002	0.0000	0.0007	0.0009	0.0002
F23	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
F24	0.0002	0.0000	0.0007	0.0009	0.0002
F25	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
F26	0.0002	0.0000	0.0007	0.0009	0.0002
F27	0.04 %	0.21 %	0.13 %	0.19 %	0.05 %
F28	0.0266	0.1269	0.0802	0.1147	0.0293
F29	0.01 %	0.00 %	0.00 %	0.00 %	0.01 %
F30	0.0033	0.0008	0.0010	0.0006	0.0021
F31	0.01 %	0.00 %	0.00 %	0.00 %	0.02 %
F32	0.0081	0.0024	0.0023	0.0014	0.0108
F33	0.02 %	0.00 %	0.00 %	0.00 %	0.02 %
F34	0.0101	0.0030	0.0029	0.0018	0.0135
F35	0.05 %	0.01 %	0.01 %	0.01 %	0.06 %
F36	0.0283	0.0085	0.0079	0.0049	0.0378
F37	0.01 %	0.00 %	0.00 %	0.00 %	0.02 %
F38	0.0069	0.0017	0.0019	0.0011	0.0089
F39	0.05 %	0.01 %	0.01 %	0.01 %	0.06 %
F40	0.0216	0.0071	0.0074	0.0045	0.0342
F41	0.15 %	0.43 %	0.37 %	0.37 %	0.21 %
F42	0.0220	0.2624	0.5254	0.2139	0.1201
F43	0.17 %	0.47 %	0.97 %	0.41 %	0.23 %
F44	0.1913	0.2956	0.5780	0.2419	0.1321
F45	0.04 %	0.21 %	0.44 %	0.19 %	0.10 %
F46	0.0460	0.1312	0.2627	0.1100	0.0600

ACDM RUN -YEAR 1980- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	51	61	62	75	50
106	0.01 %	0.02 %	0.02 %	0.21 %	0.01 %
	0.0035	0.0147	0.0092	0.1221	0.0041
107	0.00 %	0.01 %	0.00 %	0.00 %	0.00 %
	0.0029	0.0039	0.0026	0.0029	0.0011
108	0.01 %	0.01 %	0.00 %	0.01 %	0.00 %
	0.0034	0.0045	0.0030	0.0036	0.0012
109	0.03 %	0.04 %	0.03 %	0.03 %	0.02 %
	0.0204	0.0242	0.0202	0.0167	0.0113
110	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0006	0.0006	0.0006	0.0006	0.0006
111	0.00 %	0.01 %	0.00 %	0.00 %	0.00 %
	0.0025	0.0031	0.0030	0.0029	0.0029
112	0.00 %	0.02 %	0.06 %	0.01 %	0.01 %
	0.0022	0.0127	0.0330	0.0060	0.0030
113	0.01 %	0.05 %	0.03 %	0.01 %	0.01 %
	0.0062	0.0231	0.0155	0.0083	0.0030
114	0.03 %	0.13 %	0.81 %	0.06 %	0.05 %
	0.0181	0.0810	0.4972	0.0341	0.0265
115	0.01 %	0.01 %	0.02 %	0.01 %	0.02 %
	0.0070	0.0059	0.0092	0.0048	0.0073
116	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0130	0.0019	0.0023	0.0014	0.0061
117	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0130	0.0019	0.0023	0.0014	0.0061
118	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0126	0.0023	0.0028	0.0017	0.0066
119	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0126	0.0023	0.0028	0.0017	0.0066
120	0.12 %	0.05 %	0.07 %	0.04 %	0.20 %
	0.0759	0.0298	0.0441	0.0213	0.1165
121	0.08 %	0.03 %	0.05 %	0.02 %	0.14 %
	0.0518	0.0202	0.0300	0.0145	0.0774
122	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0023	0.0010	0.0012	0.0007	0.0027
123	0.00 %	0.00 %	0.01 %	0.01 %	0.00 %
	0.0014	0.0024	0.0065	0.0065	0.0015
124	0.00 %	0.01 %	0.01 %	0.02 %	0.00 %
	0.0016	0.0045	0.0053	0.0089	0.0017
125	0.00 %	0.01 %	0.01 %	0.02 %	0.00 %
	0.0016	0.0045	0.0053	0.0089	0.0017
126	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0017	0.0010	0.0011	0.0010	0.0015

ACCM RUN -YEAR 1980- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	51	51	62	75	50
127	0.02 %	0.01 %	0.02 %	0.01 %	0.02 %
	0.0150	0.0098	0.0095	0.0094	0.0125
128	0.02 %	0.01 %	0.02 %	0.01 %	0.02 %
	0.0150	0.0098	0.0095	0.0094	0.0125
129	0.02 %	0.01 %	0.02 %	0.01 %	0.02 %
	0.0140	0.0098	0.0095	0.0094	0.0125
130	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0091	0.0062	0.0067	0.0060	0.0082
131	0.01 %	0.00 %	0.01 %	0.00 %	0.01 %
	0.0043	0.0020	0.0033	0.0022	0.0040
132	0.07 %	0.05 %	0.06 %	0.05 %	0.07 %
	0.0433	0.0221	0.0351	0.0324	0.0400
133	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %
	0.0116	0.0052	0.0100	0.0096	0.0109
134	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0023	0.0015	0.0020	0.0019	0.0022
135	0.04 %	0.03 %	0.03 %	0.03 %	0.04 %
	0.0251	0.0188	0.0205	0.0190	0.0233
136	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0014	0.0011	0.0012	0.0012	0.0013
137	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %
	0.0112	0.0093	0.0100	0.0096	0.0108
138	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %
	0.0116	0.0092	0.0100	0.0096	0.0109
139	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0051	0.0041	0.0044	0.0042	0.0049
140	0.04 %	0.17 %	0.13 %	0.51 %	0.04 %
	0.0240	0.1021	0.0790	0.3604	0.0261
141	0.05 %	0.18 %	0.11 %	0.90 %	0.06 %
	0.0303	0.1077	0.0680	0.5347	0.0325
142	0.34 %	0.14 %	0.12 %	1.30 %	0.05 %
	0.0221	0.0252	0.0690	0.7703	0.0263
143	0.05 %	0.31 %	0.19 %	2.05 %	0.05 %
	0.0371	0.1521	0.1074	1.2124	0.0359
144	0.08 %	0.84 %	0.33 %	1.00 %	0.10 %
	0.0502	0.5127	0.2003	0.5322	0.0601
145	0.17 %	7.37 %	0.87 %	0.79 %	0.22 %
	0.1030	4.4574	0.5230	0.4659	0.1301
146	0.03 %	0.55 %	0.32 %	1.45 %	0.09 %
	0.0304	0.4025	0.1916	0.8657	0.0500
147	0.04 %	0.19 %	0.14 %	4.88 %	0.05 %
	0.0243	0.1156	0.0835	2.8810	0.0291

AQCM RUN -YEAR 1980- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 51	RECEPTOR 61	RECEPTOR 62	RECEPTOR 75	RECEPTOR 50
148	0.16 %	0.98 %	0.59 %	3.79 %	0.21 %
	0.0760	0.5345	0.3425	2.2391	0.1201
149	0.06 %	1.11 %	0.45 %	0.48 %	0.06 %
	0.0358	0.6776	0.2649	0.2429	0.0351
150	0.09 %	3.32 %	0.70 %	0.24 %	0.13 %
	0.0566	2.0255	0.4210	0.1444	0.0733
151	0.04 %	1.37 %	1.19 %	0.27 %	0.09 %
	0.0473	0.8377	0.7628	0.1618	0.0474
152	0.12 %	0.94 %	0.93 %	0.91 %	0.15 %
	0.0765	0.5145	0.5591	0.5361	0.0996
153	0.18 %	0.82 %	1.15 %	0.79 %	0.24 %
	0.1130	0.5034	0.6904	0.4648	0.1425
154	0.03 %	0.44 %	5.09 %	0.15 %	0.09 %
	0.0472	0.2676	3.0455	0.0860	0.0505
155	0.02 %	0.07 %	0.14 %	0.02 %	0.03 %
	0.0126	0.0413	0.0852	0.0146	0.0192
156	0.03 %	0.19 %	0.75 %	0.05 %	0.05 %
	0.0193	0.1102	0.4483	0.0325	0.0277
157	0.01 %	0.09 %	0.11 %	0.02 %	0.02 %
	0.0092	0.0526	0.0640	0.0114	0.0105
159	0.10 %	0.15 %	0.14 %	0.11 %	0.13 %
	0.0603	0.0512	0.0959	0.0665	0.0732
159	0.19 %	0.42 %	0.35 %	0.34 %	0.23 %
	0.1155	0.2571	0.2073	0.1995	0.1359
160	0.12 %	0.21 %	0.20 %	0.28 %	0.14 %
	0.0744	0.1202	0.1166	0.1631	0.0825
161	0.09 %	0.24 %	0.19 %	0.23 %	0.11 %
	0.0570	0.1444	0.1131	0.1360	0.0651
162	0.31 %	0.39 %	0.37 %	0.41 %	0.34 %
	0.1897	0.2411	0.2228	0.2397	0.2002
163	0.02 %	0.04 %	0.03 %	0.05 %	0.03 %
	0.0151	0.0215	0.0199	0.0232	0.0150
164	0.99 %	0.81 %	0.86 %	0.73 %	1.08 %
	0.6094	0.4524	0.5132	0.4320	0.6309
165	1.71 %	1.75 %	1.74 %	1.69 %	1.97 %
	1.0424	1.0645	1.0406	0.9980	1.0907
166	1.67 %	1.55 %	1.60 %	1.48 %	1.92 %
	1.0249	0.9464	0.9583	0.9134	1.0590
167	1.41 %	1.28 %	1.32 %	1.23 %	1.47 %
	0.8561	0.7623	0.7959	0.7287	0.8549
168	2.13 %	1.90 %	1.99 %	1.90 %	2.20 %
	1.3049	1.1606	1.1918	1.1245	1.2824

ACCM RUN -YEAR 1990- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	51	51	62	75	50
169	1.09 %	0.85 %	0.88 %	0.84 %	1.05 %
	0.5617	0.5240	0.5261	0.5242	0.6174
170	0.46 %	0.35 %	0.35 %	0.33 %	0.45 %
	0.2021	0.2155	0.2128	0.1937	0.2614
171	0.23 %	0.12 %	0.14 %	0.11 %	0.24 %
	0.1130	0.0738	0.0921	0.0635	0.1407
172	0.93 %	0.60 %	0.53 %	0.41 %	1.03 %
	0.5095	0.3628	0.3748	0.2409	0.5981
173	0.40 %	0.26 %	0.31 %	0.20 %	0.49 %
	0.2481	0.1606	0.1972	0.1206	0.2799
174	0.18 %	0.13 %	0.15 %	0.11 %	0.20 %
	0.1099	0.0756	0.0885	0.0640	0.1175
175	0.21 %	0.27 %	0.31 %	0.19 %	0.29 %
	0.1266	0.1660	0.1970	0.1093	0.1643
176	0.59 %	1.20 %	1.06 %	0.67 %	0.75 %
	0.3554	0.7213	0.6365	0.3977	0.4437
177	0.26 %	0.22 %	0.22 %	0.19 %	0.29 %
	0.1565	0.1329	0.1313	0.1138	0.1643
178	0.51 %	0.35 %	0.36 %	0.31 %	0.50 %
	0.3139	0.2162	0.2170	0.1917	0.2914
179	0.39 %	0.30 %	0.30 %	0.23 %	0.41 %
	0.2408	0.1842	0.1793	0.1348	0.2364
180	0.16 %	0.11 %	0.11 %	0.09 %	0.15 %
	0.1002	0.0672	0.0673	0.0555	0.0993
181	0.33 %	0.20 %	0.19 %	0.16 %	0.30 %
	0.2045	0.1215	0.1162	0.0941	0.1721
182	0.19 %	0.13 %	0.14 %	0.12 %	0.20 %
	0.1172	0.0764	0.0957	0.0705	0.1152
183	0.58 %	0.33 %	0.32 %	0.21 %	0.63 %
	0.3553	0.2012	0.1979	0.1266	0.3682
184	0.43 %	0.15 %	0.17 %	0.14 %	0.38 %
	0.2542	0.0905	0.1040	0.0942	0.2225
185	0.13 %	0.04 %	0.05 %	0.04 %	0.11 %
	0.0915	0.0271	0.0325	0.0219	0.0644
186	0.14 %	0.03 %	0.04 %	0.02 %	0.10 %
	0.0857	0.0205	0.0255	0.0141	0.0592
187	0.43 %	0.24 %	0.30 %	0.15 %	0.74 %
	0.5053	0.1439	0.1779	0.0882	0.4325
189	0.70 %	0.32 %	0.33 %	0.22 %	0.68 %
	0.4258	0.1543	0.1965	0.1318	0.3985
189	0.27 %	0.12 %	0.13 %	0.09 %	0.22 %
	0.1532	0.0749	0.0789	0.0555	0.1297

AQPM RUN - YEAR 1980- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	21	21	22	25	20
190	2.25 %	0.44 %	0.39 %	0.25 %	2.54 %
	1.3120	0.2575	0.2350	0.1472	1.4771
191	5.36 %	0.17 %	0.23 %	0.11 %	1.07 %
	2.2950	0.1052	0.1399	0.0642	0.6215
192	3.51 %	0.67 %	0.89 %	0.54 %	1.61 %
	2.1501	0.4081	0.5322	0.3137	0.9387
193	4.61 %	1.14 %	1.61 %	0.95 %	6.96 %
	2.0258	0.5377	0.7511	0.5606	4.0535
194	0.09 %	0.09 %	0.11 %	0.06 %	0.16 %
	0.0592	0.0522	0.0532	0.0345	0.0906
195	0.29 %	0.57 %	0.80 %	0.46 %	0.33 %
	0.1757	0.3500	0.4800	0.2715	0.1932
196	0.33 %	0.47 %	0.46 %	0.56 %	0.36 %
	0.1995	0.2877	0.2755	0.3299	0.2105
197	0.54 %	0.99 %	0.86 %	1.14 %	0.62 %
	0.3338	0.5355	0.5153	0.5732	0.3527
198	0.14 %	0.25 %	0.20 %	0.34 %	0.17 %
	0.0875	0.1523	0.1194	0.1987	0.1017
199	0.02 %	0.03 %	0.03 %	0.04 %	0.02 %
	0.0137	0.0183	0.0205	0.0254	0.0135
200	0.02 %	0.03 %	0.03 %	0.04 %	0.02 %
	0.0143	0.0155	0.0172	0.0209	0.0132
201	3.05 %	3.59 %	3.57 %	3.92 %	3.20 %
	1.9582	2.1935	2.1374	2.3177	1.8541
202	1.26 %	1.20 %	1.23 %	1.17 %	1.33 %
	0.7704	0.7331	0.7372	0.6910	0.7750
203	1.91 %	1.67 %	1.75 %	1.66 %	1.96 %
	1.1711	1.0207	1.0455	0.9910	1.1411
204	2.95 %	2.47 %	2.63 %	2.62 %	2.88 %
	1.7452	1.5055	1.5709	1.5503	1.6804
205	0.91 %	0.75 %	0.80 %	0.77 %	0.92 %
	0.5558	0.4593	0.4753	0.4531	0.5345
206	1.05 %	0.82 %	0.89 %	0.79 %	1.07 %
	0.6455	0.5008	0.5294	0.4572	0.5252
207	1.94 %	1.81 %	1.86 %	1.72 %	2.09 %
	1.2153	1.1020	1.1100	1.0153	1.2205
208	0.71 %	0.46 %	0.51 %	0.46 %	0.68 %
	0.4375	0.2753	0.3031	0.2521	0.3257
209	0.11 %	0.08 %	0.08 %	0.06 %	0.12 %
	0.0685	0.0479	0.0459	0.0329	0.0702
210	0.07 %	0.03 %	0.04 %	0.03 %	0.07 %
	0.0251	0.0205	0.0252	0.0155	0.0415

ACDM FUM -YEAR 1980- FOR CHARLESTON ACMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	51	51	52	75	50
211	3.99 %	4.17 %	4.25 %	4.44 %	4.21 %
	2.5473	2.5455	2.5445	2.5242	2.4232
212	3.12 %	2.92 %	3.04 %	3.03 %	3.22 %
	1.7141	1.7814	1.8175	1.7917	1.8752
213	3.50 %	3.77 %	3.90 %	4.15 %	3.71 %
	2.1954	2.2352	2.3325	2.4425	2.1905
PACK-	12.63 %	12.76 %	13.44 %	13.94 %	14.33 %
GROUND	20	20	20	20	20
TOTAL	100.0 %	100.1 %	100.1 %	100.1 %	100.0 %
	61.2138	61.0863	59.8403	59.1258	58.2805

APPENDIX E

SOURCE DATA

SOURCE NUMBER	SOURCE ID.		SCURCE LOCATION (KILOMETERS)		SOURCE AREA SQUARF KILOMETERS	ANNUAL SOURCE EMISSION RATE (TONS/DAY)		STACK DATA			
			HORIZONTAL	VERTICAL		SQ2	PART	HT (FT)	DIAM (FT)	VEL (FPS)	TEMP (DEG.F)
1	420	1 1	592.1	3673.0	0.0	0.211	0.019	60.0	2.5	17.0	300.
2	420	2 1	577.9	3686.8	0.0	0.0	0.090	20.0	0.0	0.0	77.
3	420	2 2	577.9	3686.8	0.0	0.0	0.182	20.0	0.0	0.0	77.
4	420	2 3	577.9	3686.8	0.0	0.0	0.236	20.0	0.0	0.0	77.
5	420	2 4	577.9	3686.8	0.0	0.0	0.073	20.0	0.0	0.0	77.
6	420	3 1	594.2	3678.7	0.0	3.326	0.074	168.0	6.5	89.9	250.
7	420	3 2	594.2	3678.7	0.0	3.326	0.074	168.0	6.5	89.9	250.
8	420	3 3	594.2	3678.7	0.0	22.868	6.481	300.0	13.0	73.0	300.
9	420	3 4	594.2	3678.7	0.0	22.868	6.481	300.0	13.0	73.0	300.
10	420	5 1	593.4	3696.0	0.0	0.288	0.422	54.0	5.0	50.0	600.
11	420	6 1	595.9	3652.5	0.0	81.200	0.310	400.0	28.0	58.0	289.
12	420	7 1	600.0	3650.0	0.0	0.197	0.029	50.0	5.2	40.0	525.
13	420	8 1	592.6	3673.1	0.0	0.296	0.025	15.0	2.0	30.0	475.
14	420	9 1	600.0	3697.0	0.0	0.058	0.007	30.0	2.0	30.0	475.
15	420	9 2	600.0	3697.0	0.0	0.058	0.007	30.0	2.0	30.0	425.
16	560	2 1	596.7	3636.7	0.0	0.830	0.222	250.0	12.5	11.5	550.
17	560	2 2	596.7	3636.7	0.0	0.830	0.222	250.0	12.5	11.5	550.
18	560	2 3	596.7	3636.7	0.0	0.830	0.222	250.0	12.5	11.5	550.
19	560	2 4	596.7	3636.7	0.0	0.830	0.222	250.0	12.5	11.5	550.
20	560	2 5	596.7	3636.7	0.0	0.830	0.222	250.0	12.5	11.5	550.
21	560	2 6	596.7	3636.7	0.0	0.041	0.003	53.0	2.5	30.0	450.
22	560	2 7	596.7	3636.7	0.0	0.041	0.003	53.0	2.5	30.0	450.
23	560	212	596.7	3636.7	0.0	0.151	0.011	30.0	3.0	30.0	500.
24	560	213	596.7	3636.7	0.0	0.151	0.011	30.0	3.0	30.0	500.
25	560	214	596.7	3636.7	0.0	0.074	0.005	29.0	2.8	30.0	475.
26	560	215	596.7	3636.7	0.0	0.074	0.005	29.0	2.8	30.0	475.
27	560	218	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
28	560	219	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
29	560	220	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
30	560	221	596.7	3636.7	0.0	0.271	0.019	33.0	3.0	30.0	450.
31	560	224	596.7	3636.7	0.0	0.022	0.003	25.0	2.0	30.0	400.
32	560	4 1	592.3	3636.2	0.0	0.0	0.122	35.0	3.9	32.6	140.
33	560	5 1	584.0	3638.0	0.0	0.0	0.122	35.0	10.0	19.8	150.
34	560	6 1	593.4	3634.5	0.0	0.0	0.011	10.0	0.0	0.0	70.
35	560	6 2	593.4	3634.5	0.0	0.0	0.011	35.0	3.0	7.1	70.
36	560	7 1	597.4	3628.7	0.0	0.041	0.003	25.0	3.5	40.0	420.
37	560	7 2	597.4	3628.7	0.0	0.041	0.003	25.0	3.5	40.0	420.
38	560	7 3	597.4	3628.7	0.0	0.025	0.003	25.0	2.5	40.0	425.
39	560	8 1	596.4	3640.2	0.0	8.129	0.570	96.0	6.5	58.8	400.
40	560	8 2	596.4	3640.2	0.0	8.129	0.570	96.0	6.5	58.8	400.
41	560	8 3	596.4	3640.2	0.0	0.118	0.296	103.0	6.0	46.3	510.
42	560	8 4	596.4	3640.2	0.0	2.132	1.655	118.0	8.0	60.8	420.
43	560	8 5	596.4	3640.2	0.0	8.129	0.115	187.0	9.8	50.0	400.
44	560	8 6	596.4	3640.2	0.0	0.0	0.041	118.0	3.0	23.6	140.
45	560	8 7	596.4	3640.2	0.0	0.0	0.049	118.0	3.0	39.2	155.
46	560	8 8	596.4	3640.2	0.0	0.0	0.071	124.0	3.5	17.2	200.
47	560	8 9	596.4	3640.2	0.0	0.0	0.074	205.0	6.0	7.7	212.
48	560	810	596.4	3640.2	0.0	0.0	0.167	205.0	6.0	7.7	212.
49	560	811	596.4	3640.2	0.0	0.575	0.488	210.0	6.7	68.1	300.
50	560	812	596.4	3640.2	0.0	0.600	0.775	150.0	7.5	44.0	300.
51	560	813	596.4	3640.2	0.0	1.408	0.411	212.0	7.8	52.3	350.
52	560	814	596.4	3640.2	0.0	1.362	0.490	250.0	3.5	45.7	300.
53	560	815	596.4	3640.2	0.0	1.362	0.299	250.0	4.5	76.2	300.

54	560	816	596.4	3640.2	0.0	0.0	0.107	112.0	9.3	87.7	160.
55	560	817	596.4	3640.2	0.0	0.0	0.088	112.0	9.3	87.7	160.
56	560	818	596.4	3640.2	0.0	0.0	0.271	112.0	9.3	87.7	160.
57	560	819	596.4	3640.2	0.0	0.0	0.340	114.0	5.8	39.7	170.
58	560	820	596.4	3640.2	0.0	0.003	0.003	75.0	5.3	45.3	425.
59	560	9 1	592.7	3637.4	0.0	0.0	0.084	34.0	4.2	42.3	200.
60	560	11 1	596.8	3633.3	0.0	0.236	0.021	65.0	4.0	17.2	300.
61	560	11 2	596.8	3633.3	0.0	0.0	0.004	65.0	4.0	17.2	300.
62	560	11 3	596.8	3633.3	0.0	0.0	0.029	79.0	1.9	29.4	172.
63	560	12 1	593.4	3635.4	0.0	0.0	0.005	10.0	0.0	0.0	70.
64	560	13 2	597.9	3632.1	0.0	0.0	0.004	150.0	5.5	21.0	200.
65	560	14 1	598.4	3632.6	0.0	0.0	0.003	65.0	1.3	14.8	135.
66	560	14 2	598.4	3632.6	0.0	0.0	0.003	55.0	2.5	25.0	100.
67	560	14 3	598.4	3632.6	0.0	1.707	0.014	60.0	4.0	20.0	100.
68	560	14 4	598.4	3632.6	0.0	0.0	0.132	100.0	6.0	29.0	140.
69	560	14 5	598.4	3632.6	0.0	0.0	0.112	100.0	6.0	29.5	90.
70	560	15 1	598.5	3631.7	0.0	0.0	0.019	30.0	3.6	40.0	650.
71	560	15 2	598.5	3631.7	0.0	0.655	0.062	50.0	4.2	30.0	550.
72	560	15 3	598.5	3631.7	0.0	0.655	0.062	50.0	4.2	30.0	550.
73	560	15 4	598.5	3631.7	0.0	0.227	0.021	30.0	3.7	30.0	600.
74	560	15 6	598.5	3631.7	0.0	0.077	0.007	21.0	2.0	30.0	700.
75	560	16 1	595.8	3638.7	0.0	0.159	0.011	60.0	3.8	30.4	450.
76	560	16 2	595.8	3638.7	0.0	0.159	0.011	60.0	3.8	30.4	450.
77	560	16 3	595.8	3638.7	0.0	0.0	0.003	40.0	0.0	0.0	90.
78	560	16 4	595.8	3638.7	0.0	0.0	0.003	40.0	0.0	0.0	90.
79	560	18 1	598.4	3633.5	0.0	0.0	0.318	100.0	9.8	42.0	185.
80	560	18 2	598.4	3633.5	0.0	0.0	0.423	100.0	9.8	42.0	185.
81	560	19 1	590.0	3640.0	0.0	0.584	0.090	68.0	6.8	12.5	450.
82	560	19 2	590.0	3640.0	0.0	0.584	0.090	68.0	6.8	12.5	450.
83	560	19 3	590.0	3640.0	0.0	0.584	0.090	68.0	6.8	12.5	450.
84	560	20 1	598.8	3632.6	0.0	0.088	0.011	40.0	1.7	30.0	600.
85	560	20 2	598.8	3632.6	0.0	0.088	0.011	40.0	1.7	30.0	600.
86	560	20 3	598.8	3632.6	0.0	0.074	0.007	40.0	1.7	30.0	600.
87	560	21 1	595.7	3639.8	0.0	0.055	0.004	55.0	4.0	40.0	475.
88	560	21 2	595.7	3639.8	0.0	0.055	0.004	55.0	4.0	40.0	475.
89	560	21 3	595.7	3639.8	0.0	0.082	0.011	56.0	4.5	40.0	475.
90	560	21 4	595.7	3639.8	0.0	0.123	0.015	56.0	4.5	40.0	475.
91	560	22 1	596.1	3638.1	0.0	0.159	0.015	29.0	1.7	30.0	390.
92	560	23 1	593.1	3638.0	0.0	0.0	0.070	60.0	3.6	60.0	240.
93	560	24 1	598.4	3627.7	0.0	0.022	0.003	150.0	6.0	40.0	375.
94	560	24 2	598.4	3627.7	0.0	0.022	0.003	150.0	6.0	40.0	375.
95	560	24 3	598.4	3627.7	0.0	0.022	0.003	150.0	6.0	40.0	375.
96	560	25 1	598.4	3625.0	0.0	0.008	0.044	46.0	2.7	43.0	160.
97	560	26 1	593.6	3633.8	0.0	0.033	0.004	70.0	2.5	40.0	435.
98	560	26 2	593.6	3633.8	0.0	0.0	0.005	40.0	0.0	0.0	70.
99	560	26 3	593.6	3633.8	0.0	0.0	0.005	40.0	0.0	0.0	70.
100	560	26 4	593.6	3633.8	0.0	0.0	0.019	40.0	0.0	0.0	70.
101	560	26 5	593.6	3633.8	0.0	0.0	0.009	30.0	2.0	106.1	250.
102	560	26 7	593.6	3633.8	0.0	0.0	0.027	70.0	3.0	28.3	400.
103	560	27 2	595.1	3632.5	0.0	0.0	0.110	40.0	0.0	0.0	77.
104	560	27 3	595.1	3632.5	0.0	0.0	0.121	40.0	0.0	0.0	77.
105	560	27 4	595.1	3632.5	0.0	0.0	0.055	40.0	0.0	0.0	77.
106	560	28 3	600.5	3627.5	0.0	0.0	0.008	40.0	2.0	21.2	77.
107	560	29 1	596.9	3632.4	0.0	0.847	0.122	125.0	11.0	85.2	350.
108	560	29 2	596.9	3632.4	0.0	1.082	0.158	125.0	11.0	91.0	350.
109	560	29 3	596.9	3632.4	0.0	2.679	0.383	125.0	11.3	44.0	350.
110	560	30 1	566.5	3556.4	0.0	0.085	0.007	21.0	1.3	32.5	475.
111	560	30 2	566.5	3556.4	0.0	0.0	0.036	80.0	4.5	23.0	110.
112	560	33 1	596.5	3630.6	0.0	0.0	0.004	30.0	2.7	15.0	500.
113	560	34 1	596.3	3627.0	0.0	0.0	0.007	30.0	0.0	0.0	80.
114	560	35 1	598.1	3631.1	0.0	0.0	0.025	22.0	1.0	8.0	90.

115	560	36	1	558.6	3635.0	0.0	0.0	0.011	30.0	2.6	15.0	1200.
116	560	37	1	595.7	3628.6	0.0	0.074	0.007	29.0	2.3	30.0	450.
117	560	37	2	595.7	3630.6	0.0	0.074	0.007	29.0	2.3	30.0	450.
118	560	39	1	596.2	3638.8	0.0	0.022	0.004	31.0	2.3	20.0	300.
119	560	39	2	596.2	3638.8	0.0	0.022	0.004	33.0	2.3	20.0	300.
120	560	40	1	594.5	3631.1	0.0	0.0	0.048	15.0	1.0	28.2	80.
121	560	40	2	594.5	3631.1	0.0	0.0	0.033	40.0	0.0	0.0	77.
122	560	44	1	595.3	3635.7	0.0	0.005	0.003	150.0	3.0	45.0	425.
123	560	46	1	598.3	3627.2	0.0	0.077	0.005	125.0	6.0	10.0	375.
124	560	49	1	599.0	3626.8	0.0	0.011	0.003	165.0	3.0	10.0	175.
125	560	49	2	599.0	3626.8	0.0	0.011	0.003	165.0	3.0	10.0	175.
126	VERONA	PT	#1	598.2	3652.0	0.0	0.197	0.022	50.0	5.2	40.0	525.
127	DUPONT	PT	#1	599.4	3658.0	0.0	0.0	0.205	150.0	4.9	27.9	320.
128	DUPONT	PT	#2	599.4	3658.0	0.0	0.0	0.205	150.0	4.9	27.9	320.
129	DUPONT	PT	#3	599.4	3658.0	0.0	0.0	0.205	150.0	4.9	27.9	320.
130	DUPONT	PT	#4	599.4	3658.0	0.0	0.0	0.052	15.0	4.3	15.1	630.
131	AMOCO	PT	#1	604.2	3652.0	0.0	0.0	0.047	74.8	6.9	21.0	302.
132	AMOCO	PT	#2	604.2	3652.0	0.0	0.0	0.203	120.0	3.0	24.9	199.
133	AMOCO	PT	#3	604.2	3652.0	0.0	0.0	0.025	185.0	1.3	58.7	77.
134	AMOCO	PT	#4	604.2	3652.0	0.0	0.0	0.005	49.9	0.3	37.7	212.
135	AMOCO	PT	#5	604.2	3652.0	0.0	0.0	0.121	85.0	7.9	12.8	212.
136	AMOCO	PT	#6	604.2	3652.0	0.0	0.0	0.003	74.8	2.0	29.9	212.
137	AMOCO	PT	#7	604.2	3652.0	0.0	0.0	0.025	120.0	1.3	58.7	77.
138	AMOCO	PT	#8	604.2	3652.0	0.0	0.0	0.025	165.0	1.3	58.7	77.
139	AMOCO	PT	#9	604.2	3652.0	0.0	0.0	0.011	24.9	1.3	17.7	77.
140	NEW AMOCO	#1		602.0	3655.9	0.0	0.0	0.047	74.8	6.9	21.0	302.
141	NEW AMOCO	#2		602.0	3655.9	0.0	0.0	0.203	119.1	3.0	24.9	199.
142	NEW AMOCO	#3		602.0	3655.9	0.0	0.0	0.025	185.0	1.3	58.7	77.
143	NEW AMOCO	#4		602.0	3655.9	0.0	0.0	0.005	49.9	0.3	37.7	212.
144	NEW AMOCO	#5		602.0	3655.9	0.0	0.0	0.121	85.0	7.9	12.8	212.
145	NEW AMOCO	#6		602.0	3655.9	0.0	0.0	0.003	74.8	2.0	29.9	212.
146	NEW AMOCO	#7		602.0	3655.9	0.0	0.0	0.025	120.0	1.3	58.7	77.
147	NEW AMOCO	#8		602.0	3655.9	0.0	0.0	0.025	165.0	1.3	58.7	77.
148	NEW AMOCO	#9		602.0	3655.9	0.0	0.0	0.011	24.9	1.3	17.7	77.
149	REFINEBY	#1		603.2	3650.0	0.0	0.0	0.047	74.8	6.9	21.0	302.
150	REFINEBY	#2		603.2	3650.0	0.0	0.0	0.047	74.8	6.9	21.0	302.
151	REFINEBY	#3		603.2	3650.0	0.0	0.0	0.047	74.8	6.9	21.0	302.
152	REFINEBY	#4		603.2	3650.0	0.0	0.0	0.047	74.8	6.9	21.0	302.
153	TRACT	1.00		595.4	3626.6	0.80	0.0	0.044	10.0	0.0	0.0	0.
154	TRACT	2.00		600.3	3626.6	0.70	0.0	0.066	10.0	0.0	0.0	0.
155	TRACT	3.00		600.4	3627.4	0.60	0.0	0.057	10.0	0.0	0.0	0.
156	TRACT	4.00		595.6	3627.5	0.60	0.0	0.067	10.0	0.0	0.0	0.
157	TRACT	5.00		598.9	3627.3	0.70	0.0	0.083	10.0	0.0	0.0	0.
158	TRACT	6.00		598.3	3627.8	0.90	0.0	0.140	10.0	0.0	0.0	0.
159	TRACT	7.00		595.4	3628.3	0.70	0.0	0.083	10.0	0.0	0.0	0.
160	TRACT	8.00		600.2	3628.1	0.60	0.0	0.053	10.0	0.0	0.0	0.
161	TRACT	9.00		600.0	3629.1	1.00	0.0	0.223	10.0	0.0	0.0	0.
162	TRACT	10.00		598.8	3628.6	0.40	0.0	0.054	10.0	0.0	0.0	0.
163	TRACT	11.00		597.9	3628.4	1.00	0.0	0.078	10.0	0.0	0.0	0.
164	TRACT	12.00		596.5	3629.2	0.40	0.0	0.062	10.0	0.0	0.0	0.
165	TRACT	13.00		599.3	3629.7	1.00	0.0	0.127	10.0	0.0	0.0	0.
166	TRACT	14.00		595.3	3630.4	2.20	0.0	0.168	10.0	0.0	0.0	0.
167	TRACT	15.00		598.1	3630.2	0.50	0.0	0.053	10.0	0.0	0.0	0.
168	TRACT	16.00		597.4	3630.4	0.80	0.0	0.011	10.0	0.0	0.0	0.
169	TRACT	17.00		597.7	3629.6	1.10	0.0	0.020	10.0	0.0	0.0	0.
170	TRACT	18.00		597.1	3628.9	0.80	0.0	0.008	10.0	0.0	0.0	0.
171	TRACT	19.01		592.9	3623.9	9.90	0.0	0.109	10.0	0.0	0.0	0.
172	TRACT	19.02		596.8	3624.6	8.10	0.0	0.222	10.0	0.0	0.0	0.
173	TRACT	20.01		600.3	3622.5	20.40	0.0	0.199	10.0	0.0	0.0	0.
174	TRACT	20.02		597.3	3622.1	5.60	0.0	0.119	10.0	0.0	0.0	0.
175	TRACT	20.03		596.2	3617.4	65.80	0.0	0.502	10.0	0.0	0.0	0.

176	TRACT 20.04	600.9	3614.2	10.30	0.0	0.056	10.0	0.0	0.0	0.
177	TRACT 21.01	586.1	3623.0	83.30	0.0	1.760	10.0	0.0	0.0	0.
178	TRACT 21.02	587.7	3614.3	162.70	0.0	3.891	10.0	0.0	0.0	0.
179	TRACT 22.00	575.6	3613.9	116.80	0.0	5.179	10.0	0.0	0.0	0.
180	TRACT 23.00	565.0	3605.3	195.70	0.0	6.538	10.0	0.0	0.0	0.
181	TRACT 24.00	561.3	3624.4	306.50	0.0	13.270	10.0	0.0	0.0	0.
182	TRACT 25.00	574.8	3627.2	171.30	0.0	3.927	10.0	0.0	0.0	0.
183	TRACT 26.01	582.6	3635.3	107.70	0.0	1.244	10.0	0.0	0.0	0.
184	TRACT 26.02	590.4	3631.6	14.80	0.0	0.288	10.0	0.0	0.0	0.
185	TRACT 26.03	594.6	3630.7	13.00	0.0	0.540	10.0	0.0	0.0	0.
186	TRACT 27.00	591.8	3629.0	6.40	0.0	0.309	10.0	0.0	0.0	0.
187	TRACT 28.00	591.7	3627.3	10.30	0.0	0.159	10.0	0.0	0.0	0.
188	TRACT 29.00	595.0	3628.0	2.60	0.0	0.131	10.0	0.0	0.0	0.
189	TRACT 30.00	596.2	3625.8	5.20	0.0	0.410	10.0	0.0	0.0	0.
190	TRACT 31.01	584.7	3647.4	44.70	0.0	0.655	10.0	0.0	0.0	0.
191	TRACT 31.02	585.5	3637.0	22.50	0.0	0.833	10.0	0.0	0.0	0.
192	TRACT 31.03	588.0	3657.5	21.90	0.0	0.865	10.0	0.0	0.0	0.
193	TRACT 31.04	590.0	3643.6	4.40	0.0	0.259	10.0	0.0	0.0	0.
194	TRACT 31.05	590.8	3641.5	5.60	0.0	0.401	10.0	0.0	0.0	0.
195	TRACT 32.00	589.0	3640.6	13.30	0.0	0.291	10.0	0.0	0.0	0.
196	TRACT 33.00	592.0	3638.4	4.70	0.0	0.397	10.0	0.0	0.0	0.
197	TRACT 34.00	595.8	3640.5	6.10	0.0	0.214	10.0	0.0	0.0	0.
198	TRACT 35.00	594.7	3639.3	3.40	0.0	0.044	10.0	0.0	0.0	0.
199	TRACT 36.00	595.0	3637.9	1.70	0.0	0.028	10.0	0.0	0.0	0.
200	TRACT 37.00	595.0	3636.7	2.70	0.0	0.173	10.0	0.0	0.0	0.
201	TRACT 38.00	593.6	3635.8	5.10	0.0	0.370	10.0	0.0	0.0	0.
202	TRACT 39.00	592.3	3634.4	8.30	0.0	0.239	10.0	0.0	0.0	0.
203	TRACT 40.00	594.9	3634.8	1.50	0.0	0.328	10.0	0.0	0.0	0.
204	TRACT 41.00	595.7	3635.7	0.90	0.0	0.106	10.0	0.0	0.0	0.
205	TRACT 42.00	597.1	3638.0	4.90	0.0	0.353	10.0	0.0	0.0	0.
206	TRACT 43.00	596.9	3634.9	1.80	0.0	0.720	10.0	0.0	0.0	0.
207	TRACT 44.00	597.0	3633.2	4.90	0.0	0.033	10.0	0.0	0.0	0.
208	TRACT 45.00	598.6	3632.3	5.10	0.0	0.184	10.0	0.0	0.0	0.
209	TRACT 46.01	612.8	3639.4	83.10	0.0	1.115	10.0	0.0	0.0	0.
210	TRACT 46.02	607.8	3632.9	80.80	0.0	1.841	10.0	0.0	0.0	0.
211	TRACT 47.00	607.2	3628.4	4.40	0.0	0.411	10.0	0.0	0.0	0.
212	TRACT 48.00	608.2	3625.4	4.20	0.0	0.067	10.0	0.0	0.0	0.
213	TRACT 49.00	616.8	3629.9	11.90	0.0	0.125	10.0	0.0	0.0	0.
214	TRACT 50.00	632.0	3657.8	755.70	0.0	23.054	10.0	0.0	0.0	0.
215	TRACT 201	572.7	3678.1	390.80	0.0	7.562	10.0	0.0	0.0	0.
216	TRACT 202	595.4	3698.4	367.80	0.0	8.265	10.0	0.0	0.0	0.
217	TRACT 203	604.3	3681.9	290.00	0.0	10.056	10.0	0.0	0.0	0.
218	TRACT 205	585.1	3672.2	177.10	0.0	3.300	10.0	0.0	0.0	0.
219	TRACT 206	593.8	3662.0	114.10	0.0	2.240	10.0	0.0	0.0	0.
220	TRACT 207	586.6	3656.2	355.60	0.0	7.085	10.0	0.0	0.0	0.
221	TRACT 208	591.9	3648.5	24.70	0.0	0.873	10.0	0.0	0.0	0.
222	TRACT 209	590.6	3642.3	10.80	0.0	0.116	10.0	0.0	0.0	0.
223	TRACT 210	594.2	3640.4	3.40	0.0	0.035	10.0	0.0	0.0	0.
224	JAMESTOWN	623.6	3671.4	579.90	0.0	20.983	10.0	0.0	0.0	0.
225	CORDESVILLE	604.5	3668.6	257.00	0.0	9.299	10.0	0.0	0.0	0.
226	HUGER-WANDO	610.0	3655.5	303.10	0.0	10.968	10.0	0.0	0.0	0.

ACDM RUN -YEAR 1985- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

MIXING DEPTH = 900. METERS
 AMBIENT TEMPERATURE = 65. DEGREES, FAHRENHEIT
 AMBIENT PRESSURE = 1013. MILLIBARS

STABILITY CLASS 1

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00016	.00037	.0	.0	.0	.0
NNE	.00035	.00043	.0	.0	.0	.0
NE	.00025	.00027	.0	.0	.0	.0
ENE	.00012	.00032	.0	.0	.0	.0
E	.00012	.00011	.0	.0	.0	.0
ESE	.00008	.00007	.0	.0	.0	.0
SE	.00021	.00023	.0	.0	.0	.0
SSE	.00014	.00021	.0	.0	.0	.0
S	.00022	.00039	.0	.0	.0	.0
SSW	.00020	.00041	.0	.0	.0	.0
SW	.00023	.00030	.0	.0	.0	.0
WSW	.00030	.00055	.0	.0	.0	.0
W	.00013	.00027	.0	.0	.0	.0
WNW	.00019	.00016	.0	.0	.0	.0
NW	.00014	.00030	.0	.0	.0	.0
NNW	.00016	.00039	.0	.0	.0	.0

ACDM RUN -YEAR 1985- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 2

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00118	.00199	.00137	.0	.0	.0
NNE	.00120	.00178	.00203	.0	.0	.0
NE	.00074	.00153	.00094	.0	.0	.0
ENE	.00061	.00132	.00114	.0	.0	.0
E	.00060	.00068	.00066	.0	.0	.0
ESE	.00066	.00073	.00103	.0	.0	.0
SE	.00055	.00084	.00057	.0	.0	.0
SSE	.00032	.00050	.00105	.0	.0	.0
S	.00081	.00094	.00123	.0	.0	.0
SSW	.00080	.00162	.00160	.0	.0	.0
SW	.00070	.00146	.00137	.0	.0	.0
WSW	.00059	.00203	.00219	.0	.0	.0
W	.00062	.00142	.00158	.0	.0	.0
WNW	.00070	.00185	.00162	.0	.0	.0
NW	.00045	.00130	.00116	.0	.0	.0
NNW	.00085	.00160	.00126	.0	.0	.0

AQDM RUN -YEAR 1985- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 3

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00061	.00297	.00507	.00064	.0	.00002
NNE	.00050	.00336	.00763	.00107	.0	.0
NE	.00064	.00265	.00543	.00073	.0	.0
ENE	.00025	.00158	.00363	.00055	.0	.0
E	.00019	.00084	.00253	.00080	.0	.0
ESE	.00035	.00130	.00288	.00096	.00002	.0
SE	.00016	.00100	.00313	.00084	.0	.0
SSE	.00039	.00139	.00358	.00066	.0	.0
S	.00040	.00185	.00461	.00110	.00002	.0
SSW	.00037	.00212	.00479	.00112	.00007	.0
SW	.00035	.00162	.00518	.00116	.0	.00002
WSW	.00020	.00183	.00667	.00160	.00011	.0
W	.00029	.00199	.00715	.00153	.00009	.00009
WNW	.00015	.00185	.00573	.00148	.00007	.0
NW	.00024	.00174	.00340	.00064	.00002	.0
NNW	.00028	.00187	.00361	.00075	.0	.0

AQDM RUN -YEAR 1985- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

METEOROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 4

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.00115	.00676	.01562	.01377	.00190	.00027
NNE	.00124	.00694	.02078	.02002	.00148	.00005
NE	.00105	.00516	.01573	.01071	.00066	.00002
ENE	.00074	.00404	.00989	.00758	.00041	.00005
E	.00045	.00233	.00767	.00621	.00062	.00002
ESE	.00042	.00258	.00749	.00646	.00046	.00002
SE	.00060	.00233	.00740	.00477	.00037	.00009
SSE	.00046	.00276	.00776	.00646	.00066	.00014
S	.00069	.00345	.01500	.01370	.00199	.00027
SSW	.00055	.00349	.01441	.01664	.00263	.00053
SW	.00044	.00249	.01196	.01048	.00084	.00018
WSW	.00036	.00205	.00895	.01132	.00169	.00030
W	.00036	.00208	.00701	.01208	.00237	.00112
WNW	.00029	.00240	.00616	.01301	.00315	.00032
NW	.00039	.00217	.00527	.00612	.00107	.00023
NNW	.00079	.00404	.00827	.00888	.00148	.00039

AQDM RUN -YEAR: 1985- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

METECROLOGICAL INPUT DATA FOR ANNUAL

STABILITY CLASS 5

WINDSPEED CLASS

WIND DIRECTION	1	2	3	4	5	6
N	.01449	.02094	.00557	.0	.0	.0
NNE	.01232	.02007	.00751	.0	.0	.0
NE	.00796	.01201	.00422	.0	.0	.0
ENE	.00500	.00845	.00167	.0	.0	.0
E	.00347	.00653	.00183	.0	.0	.0
ESE	.00403	.00582	.00171	.0	.0	.0
SE	.00467	.00731	.00105	.0	.0	.0
SSE	.00618	.00945	.00144	.0	.0	.0
S	.01453	.02167	.00466	.0	.0	.0
SSW	.01126	.02078	.00744	.0	.0	.0
SW	.00673	.01406	.00913	.0	.0	.0
WSW	.00528	.01121	.00799	.0	.0	.0
W	.00396	.00849	.00845	.0	.0	.0
WNW	.00298	.00514	.00541	.0	.0	.0
NW	.00376	.00639	.00336	.0	.0	.0
NNW	.00891	.01416	.00406	.0	.0	.0

AQDM RUN -YEAR 1985- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

INPUT REGRESSION PARAMETERS ARE:

<u>POLLUTANT</u>	<u>Y-INTERCEPT</u>	<u>SLOPE</u>
PARTICULATES	0.0	1.0000

AQDM RUN -YEAR 1985- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ	VERT	SO2	PARTICULATES
1	590.0	3620.0	0.	48.
2	590.0	3622.0	0.	48.
3	590.0	3624.0	0.	49.
4	590.0	3626.0	0.	50.
5	590.0	3628.0	0.	50.
6	590.0	3630.0	0.	51.
7	590.0	3632.0	0.	52.
8	590.0	3634.0	0.	51.
9	590.0	3636.0	0.	52.
10	590.0	3638.0	0.	52.
11	590.0	3640.0	0.	51.
12	590.0	3642.0	0.	53.
13	590.0	3644.0	0.	52.
14	590.0	3646.0	0.	49.
15	592.0	3620.0	0.	47.
16	592.0	3622.0	0.	48.
17	592.0	3624.0	0.	49.
18	592.0	3626.0	0.	51.
19	592.0	3628.0	0.	53.
20	592.0	3630.0	0.	54.
21	592.0	3632.0	0.	54.
22	592.0	3634.0	0.	55.
23	592.0	3636.0	0.	54.
24	592.0	3638.0	0.	55.
25	592.0	3640.0	0.	52.
26	592.0	3642.0	0.	52.
27	592.0	3644.0	0.	50.
28	592.0	3646.0	0.	50.
29	594.0	3620.0	0.	48.
30	594.0	3622.0	0.	49.
31	594.0	3624.0	0.	51.
32	594.0	3626.0	0.	52.
33	594.0	3628.0	0.	53.
34	594.0	3630.0	0.	56.
35	594.0	3632.0	0.	57.
36	594.0	3634.0	0.	59.
37	594.0	3636.0	0.	59.
38	594.0	3638.0	0.	57.
39	594.0	3640.0	0.	54.
40	594.0	3642.0	0.	52.

AQOM RUN -YEAR 1985- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ	VERT	SO2	PARTICULATES
41	594.0	3644.0	0.	50.
42	594.0	3644.0	0.	49.
43	596.0	3620.0	0.	48.
44	596.0	3622.0	0.	50.
45	596.0	3624.0	0.	52.
46	596.0	3626.0	0.	55.
47	596.0	3628.0	0.	55.
48	596.0	3630.0	0.	56.
49	596.0	3632.0	0.	57.
50	596.0	3634.0	0.	60.
51	596.0	3636.0	0.	63.
52	596.0	3638.0	0.	57.
53	596.0	3640.0	0.	54.
54	596.0	3642.0	0.	53.
55	596.0	3644.0	0.	51.
56	596.0	3646.0	0.	50.
57	598.0	3620.0	0.	47.
58	598.0	3622.0	0.	50.
59	598.0	3624.0	0.	52.
60	598.0	3626.0	0.	54.
61	598.0	3628.0	0.	62.
62	598.0	3630.0	0.	61.
63	598.0	3632.0	0.	59.
64	598.0	3634.0	0.	57.
65	598.0	3636.0	0.	58.
66	598.0	3638.0	0.	54.
67	598.0	3640.0	0.	53.
68	598.0	3642.0	0.	52.
69	598.0	3644.0	0.	51.
70	598.0	3646.0	0.	49.
71	600.0	3620.0	0.	46.
72	600.0	3622.0	0.	48.
73	600.0	3624.0	0.	49.
74	600.0	3626.0	0.	53.
75	600.0	3628.0	0.	60.
76	600.0	3630.0	0.	57.
77	600.0	3632.0	0.	55.
78	600.0	3634.0	0.	54.
79	600.0	3636.0	0.	52.
80	600.0	3638.0	0.	52.

AQDM RUN -YEAR 1985- FOR CHARLESTON ACMA, SOUTH CAROLINA 11/15/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ	VERT	SO2	PARTICULATES
81	600.0	3640.0	0.	51.
82	600.0	3642.0	0.	50.
83	600.0	3644.0	0.	49.
84	600.0	3646.0	0.	49.
85	602.0	3620.0	0.	45.
86	602.0	3622.0	0.	46.
87	602.0	3624.0	0.	47.
88	602.0	3626.0	0.	47.
89	602.0	3628.0	0.	48.
90	602.0	3630.0	0.	49.
91	602.0	3632.0	0.	49.
92	602.0	3634.0	0.	49.
93	602.0	3636.0	0.	49.
94	602.0	3638.0	0.	49.
95	602.0	3640.0	0.	49.
96	602.0	3642.0	0.	49.
97	602.0	3644.0	0.	49.
98	602.0	3646.0	0.	49.
99	604.0	3620.0	0.	44.
100	604.0	3622.0	0.	44.
101	604.0	3624.0	0.	45.
102	604.0	3626.0	0.	45.
103	604.0	3628.0	0.	46.
104	604.0	3630.0	0.	47.
105	604.0	3632.0	0.	47.
106	604.0	3634.0	0.	48.
107	604.0	3636.0	0.	48.
108	604.0	3638.0	0.	47.
109	604.0	3640.0	0.	47.
110	604.0	3642.0	0.	48.
111	604.0	3644.0	0.	48.
112	604.0	3646.0	0.	48.
113	606.0	3620.0	0.	43.
114	606.0	3622.0	0.	43.
115	606.0	3624.0	0.	44.
116	606.0	3626.0	0.	45.
117	606.0	3628.0	0.	46.
118	606.0	3630.0	0.	46.
119	606.0	3632.0	0.	46.
120	606.0	3634.0	0.	47.

AQDM RUN -YEAR 1985- FOR CHARLESTON ACMA, SOUTH CAROLINA 11/15/76

RECEPTOR CONCENTRATION DATA				
RECEPTOR NUMBER	RECEPTOR LOCATION		EXPECTED ARITHMETIC MEAN	
	(KILOMETERS)		(MICROGRAMS/CU. METER)	
	HORIZ	VERT	SO2	PARTICULATES
121	606.0	3636.0	0.	47.
122	606.0	3638.0	0.	46.
123	606.0	3640.0	0.	46.
124	606.0	3642.0	0.	47.
125	606.0	3644.0	0.	47.
126	606.0	3646.0	0.	47.
127	608.0	3620.0	0.	42.
128	608.0	3622.0	0.	42.
129	608.0	3624.0	0.	43.
130	608.0	3626.0	0.	44.
131	608.0	3628.0	0.	46.
132	608.0	3630.0	0.	45.
133	608.0	3632.0	0.	46.
134	608.0	3634.0	0.	46.
135	608.0	3636.0	0.	46.
136	608.0	3638.0	0.	45.
137	608.0	3640.0	0.	46.
138	608.0	3642.0	0.	46.
139	608.0	3644.0	0.	46.
140	608.0	3646.0	0.	46.

AQDM RUN -YEAR 1985- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 51	RECEPTOR 61	RECEPTOR 62	RECEPTOR 75	RECEPTOR 50
1	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0043	0.0035	0.0036	0.0033	0.0041
2	0.02 %	0.01 %	0.01 %	0.01 %	0.02 %
	0.0100	0.0082	0.0090	0.0083	0.0099
3	0.03 %	0.03 %	0.03 %	0.03 %	0.03 %
	0.0203	0.0180	0.0182	0.0167	0.0201
4	0.04 %	0.04 %	0.04 %	0.04 %	0.04 %
	0.0264	0.0234	0.0236	0.0217	0.0261
5	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0082	0.0072	0.0073	0.0067	0.0081
6	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0011	0.0008	0.0009	0.0008	0.0010
7	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0011	0.0008	0.0009	0.0008	0.0010
8	0.09 %	0.08 %	0.08 %	0.08 %	0.09 %
	0.0564	0.0472	0.0489	0.0456	0.0543
9	0.09 %	0.08 %	0.08 %	0.08 %	0.09 %
	0.0564	0.0472	0.0489	0.0456	0.0543
10	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0068	0.0058	0.0060	0.0057	0.0065
11	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0013	0.0010	0.0010	0.0009	0.0012
12	0.01 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0034	0.0018	0.0020	0.0017	0.0029
13	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0057	0.0046	0.0047	0.0043	0.0054
14	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0010	0.0009	0.0009	0.0009	0.0010
15	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0010	0.0009	0.0009	0.0009	0.0010
16	0.01 %	0.02 %	0.03 %	0.02 %	0.05 %
	0.0055	0.0151	0.0170	0.0104	0.0287
17	0.01 %	0.02 %	0.03 %	0.02 %	0.05 %
	0.0055	0.0151	0.0170	0.0104	0.0287
18	0.01 %	0.02 %	0.03 %	0.02 %	0.05 %
	0.0055	0.0151	0.0170	0.0104	0.0287
19	0.01 %	0.02 %	0.03 %	0.02 %	0.05 %
	0.0055	0.0151	0.0170	0.0104	0.0287
20	0.01 %	0.02 %	0.03 %	0.02 %	0.05 %
	0.0055	0.0151	0.0170	0.0104	0.0287
21	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0151	0.0013	0.0017	0.0009	0.0067

AQDM RUN -YEAR 1985- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	51	61	62	75	50
22	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0151	0.0013	0.0017	0.0009	0.0067
23	0.08 %	0.01 %	0.01 %	0.01 %	0.04 %
	0.0514	0.0047	0.0061	0.0032	0.0240
24	0.08 %	0.01 %	0.01 %	0.01 %	0.04 %
	0.0514	0.0047	0.0061	0.0032	0.0240
25	0.04 %	0.00 %	0.00 %	0.00 %	0.02 %
	0.0266	0.0022	0.0028	0.0015	0.0113
26	0.04 %	0.00 %	0.00 %	0.00 %	0.02 %
	0.0266	0.0022	0.0028	0.0015	0.0113
27	0.15 %	0.01 %	0.02 %	0.01 %	0.07 %
	0.0908	0.0082	0.0105	0.0056	0.0418
28	0.15 %	0.01 %	0.02 %	0.01 %	0.07 %
	0.0908	0.0082	0.0105	0.0056	0.0418
29	0.15 %	0.01 %	0.02 %	0.01 %	0.07 %
	0.0908	0.0082	0.0105	0.0056	0.0418
30	0.15 %	0.01 %	0.02 %	0.01 %	0.07 %
	0.0908	0.0082	0.0105	0.0056	0.0418
31	0.04 %	0.00 %	0.01 %	0.00 %	0.02 %
	0.0241	0.0030	0.0038	0.0020	0.0123
32	0.15 %	0.04 %	0.04 %	0.03 %	0.10 %
	0.0948	0.0263	0.0240	0.0164	0.0618
33	0.03 %	0.02 %	0.02 %	0.02 %	0.03 %
	0.0198	0.0103	0.0113	0.0094	0.0163
34	0.04 %	0.01 %	0.01 %	0.01 %	0.04 %
	0.0247	0.0065	0.0054	0.0036	0.0227
35	0.04 %	0.01 %	0.01 %	0.01 %	0.04 %
	0.0245	0.0065	0.0054	0.0036	0.0225
36	0.00 %	0.01 %	0.01 %	0.00 %	0.00 %
	0.0012	0.0057	0.0089	0.0030	0.0015
37	0.00 %	0.01 %	0.01 %	0.00 %	0.00 %
	0.0012	0.0057	0.0089	0.0030	0.0015
38	0.00 %	0.02 %	0.02 %	0.01 %	0.00 %
	0.0013	0.0102	0.0133	0.0034	0.0016
39	0.18 %	0.06 %	0.07 %	0.05 %	0.14 %
	0.1110	0.0365	0.0428	0.0287	0.0814
40	0.18 %	0.06 %	0.07 %	0.05 %	0.14 %
	0.1110	0.0365	0.0428	0.0287	0.0814
41	0.11 %	0.03 %	0.04 %	0.03 %	0.08 %
	0.0665	0.0202	0.0240	0.0158	0.0472
42	0.30 %	0.12 %	0.14 %	0.10 %	0.25 %
	0.1879	0.0756	0.0864	0.0599	0.1499

AQDM RUN -YEAR 1985- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 51	RECEPTOR 61	RECEPTOR 62	RECEPTOR 75	RECEPTOR 50
43	0.01 % 0.0080	0.01 % 0.0041	0.01 % 0.0046	0.01 % 0.0033	0.01 % 0.0071
44	0.17 % 0.1042	0.05 % 0.0291	0.06 % 0.0343	0.04 % 0.0231	0.11 % 0.0673
45	0.09 % 0.0583	0.02 % 0.0142	0.03 % 0.0174	0.02 % 0.0117	0.06 % 0.0360
46	0.14 % 0.0850	0.03 % 0.0211	0.04 % 0.0253	0.03 % 0.0170	0.09 % 0.0523
47	0.13 % 0.0192	0.03 % 0.0213	0.04 % 0.0254	0.03 % 0.0172	0.08 % 0.0508
48	0.29 % 0.1788	0.08 % 0.0481	0.09 % 0.0572	0.06 % 0.0388	0.19 % 0.1147
49	0.10 % 0.0596	0.04 % 0.0247	0.05 % 0.0281	0.03 % 0.0195	0.08 % 0.0479
50	0.23 % 0.1458	0.08 % 0.0497	0.09 % 0.0581	0.06 % 0.0390	0.18 % 0.1090
51	0.07 % 0.0433	0.03 % 0.0187	0.03 % 0.0212	0.02 % 0.0148	0.06 % 0.0356
52	0.24 % 0.1511	0.06 % 0.0398	0.08 % 0.0479	0.05 % 0.0311	0.17 % 0.1002
53	0.09 % 0.0554	0.03 % 0.0194	0.04 % 0.0228	0.03 % 0.0152	0.07 % 0.0423
54	0.03 % 0.0165	0.01 % 0.0057	0.01 % 0.0066	0.01 % 0.0045	0.02 % 0.0123
55	0.02 % 0.0135	0.01 % 0.0047	0.01 % 0.0055	0.01 % 0.0037	0.02 % 0.0101
56	0.07 % 0.0417	0.02 % 0.0144	0.03 % 0.0168	0.02 % 0.0114	0.05 % 0.0312
57	0.29 % 0.1794	0.06 % 0.0400	0.08 % 0.0487	0.05 % 0.0316	0.18 % 0.1081
58	0.00 % 0.0012	0.00 % 0.0003	0.00 % 0.0004	0.00 % 0.0002	0.00 % 0.0008
59	0.09 % 0.0533	0.03 % 0.0182	0.03 % 0.0190	0.02 % 0.0130	0.05 % 0.0298
60	0.04 % 0.0234	0.02 % 0.0148	0.03 % 0.0203	0.01 % 0.0085	0.07 % 0.0416
61	0.01 % 0.0045	0.00 % 0.0028	0.01 % 0.0039	0.00 % 0.0016	0.01 % 0.0079
62	0.11 % 0.0701	0.07 % 0.0457	0.10 % 0.0601	0.04 % 0.0253	0.19 % 0.1117
63	0.02 % 0.0124	0.00 % 0.0030	0.00 % 0.0027	0.00 % 0.0017	0.01 % 0.0072

AQDM RUN -YEAR 1985- FOR CHARLESTON ACMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	51	61	62	75	50
64	0.00 %	0.01 %	0.01 %	0.00 %	0.00 %
	0.0017	0.0041	0.0060	0.0023	0.0023
65	0.01 %	0.01 %	0.03 %	0.01 %	0.01 %
	0.0032	0.0071	0.0159	0.0045	0.0049
66	0.01 %	0.01 %	0.03 %	0.01 %	0.01 %
	0.0032	0.0071	0.0154	0.0045	0.0047
67	0.02 %	0.05 %	0.11 %	0.03 %	0.03 %
	0.0146	0.0328	0.0668	0.0209	0.0209
68	0.10 %	0.21 %	0.40 %	0.14 %	0.14 %
	0.0598	0.1329	0.2479	0.0838	0.0834
69	0.09 %	0.19 %	0.42 %	0.13 %	0.14 %
	0.0553	0.1213	0.2559	0.0761	0.0845
70	0.01 %	0.04 %	0.07 %	0.02 %	0.02 %
	0.0071	0.0248	0.0433	0.0140	0.0094
71	0.04 %	0.13 %	0.22 %	0.08 %	0.05 %
	0.0232	0.0799	0.1327	0.0454	0.0302
72	0.04 %	0.13 %	0.22 %	0.08 %	0.05 %
	0.0232	0.0799	0.1327	0.0454	0.0302
73	0.01 %	0.05 %	0.10 %	0.03 %	0.02 %
	0.0081	0.0284	0.0596	0.0160	0.0108
74	0.00 %	0.02 %	0.05 %	0.01 %	0.01 %
	0.0030	0.0106	0.0328	0.0059	0.0041
75	0.03 %	0.01 %	0.01 %	0.00 %	0.02 %
	0.0178	0.0034	0.0040	0.0024	0.0101
76	0.03 %	0.01 %	0.01 %	0.00 %	0.02 %
	0.0178	0.0034	0.0040	0.0024	0.0101
77	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0144	0.0023	0.0026	0.0016	0.0067
78	0.02 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0144	0.0023	0.0026	0.0016	0.0067
79	0.05 %	0.09 %	0.14 %	0.07 %	0.07 %
	0.0323	0.0580	0.0838	0.0394	0.0423
80	0.07 %	0.12 %	0.18 %	0.09 %	0.09 %
	0.0430	0.0772	0.1115	0.0524	0.0562
81	0.03 %	0.02 %	0.02 %	0.02 %	0.03 %
	0.0210	0.0123	0.0121	0.0092	0.0158
82	0.03 %	0.02 %	0.02 %	0.02 %	0.03 %
	0.0210	0.0123	0.0121	0.0092	0.0158
83	0.03 %	0.02 %	0.02 %	0.02 %	0.03 %
	0.0210	0.0123	0.0121	0.0092	0.0158
84	0.02 %	0.04 %	0.07 %	0.03 %	0.02 %
	0.0100	0.0257	0.0453	0.0192	0.0130

AQDM RUN -YEAR 1985- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 51	RECEPTOR 61	RECEPTOR 62	RECEPTOR 75	RECEPTOR 50
85	0.02 % 0.0100	0.04 % 0.0257	0.07 % 0.0453	0.03 % 0.0192	0.02 % 0.0130
86	0.01 % 0.0064	0.03 % 0.0163	0.05 % 0.0288	0.02 % 0.0122	0.01 % 0.0083
87	0.01 % 0.0044	0.00 % 0.0011	0.00 % 0.0013	0.00 % 0.0008	0.00 % 0.0028
88	0.01 % 0.0044	0.00 % 0.0011	0.00 % 0.0013	0.00 % 0.0008	0.00 % 0.0028
89	0.01 % 0.0054	0.00 % 0.0012	0.00 % 0.0013	0.00 % 0.0009	0.01 % 0.0034
90	0.01 % 0.0074	0.00 % 0.0016	0.00 % 0.0019	0.00 % 0.0012	0.01 % 0.0046
91	0.14 % 0.0856	0.02 % 0.0123	0.02 % 0.0147	0.01 % 0.0085	0.07 % 0.0392
92	0.06 % 0.0399	0.02 % 0.0152	0.03 % 0.0166	0.02 % 0.0115	0.05 % 0.0311
93	0.00 % 0.0002	0.00 % 0.0000	0.00 % 0.0007	0.00 % 0.0009	0.00 % 0.0002
94	0.00 % 0.0002	0.00 % 0.0000	0.00 % 0.0007	0.00 % 0.0009	0.00 % 0.0002
95	0.00 % 0.0002	0.00 % 0.0000	0.00 % 0.0007	0.00 % 0.0009	0.00 % 0.0002
96	0.04 % 0.0266	0.20 % 0.1269	0.13 % 0.0802	0.19 % 0.1147	0.05 % 0.0293
97	0.01 % 0.0044	0.00 % 0.0011	0.00 % 0.0012	0.00 % 0.0007	0.01 % 0.0054
98	0.02 % 0.0101	0.00 % 0.0030	0.00 % 0.0028	0.00 % 0.0018	0.02 % 0.0135
99	0.02 % 0.0101	0.00 % 0.0030	0.00 % 0.0028	0.00 % 0.0018	0.02 % 0.0135
100	0.06 % 0.0383	0.02 % 0.0115	0.02 % 0.0107	0.01 % 0.0067	0.09 % 0.0513
101	0.02 % 0.0102	0.00 % 0.0026	0.00 % 0.0027	0.00 % 0.0016	0.02 % 0.0133
102	0.05 % 0.0298	0.01 % 0.0076	0.01 % 0.0080	0.01 % 0.0048	0.06 % 0.0369
103	0.15 % 0.0920	0.42 % 0.2624	0.86 % 0.5254	0.37 % 0.2199	0.20 % 0.1201
104	0.16 % 0.1013	0.46 % 0.2886	0.94 % 0.5780	0.40 % 0.2419	0.22 % 0.1321
105	0.07 % 0.0460	0.21 % 0.1312	0.43 % 0.2627	0.18 % 0.1100	0.10 % 0.0600

AQDM RUN -YEAR 1985- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 51	RECEPTOR 61	RECEPTOR 62	RECEPTOR 75	RECEPTOR 50
106	0.01 % 0.0035	0.02 % 0.0147	0.02 % 0.0092	0.20 % 0.1221	0.01 % 0.0041
107	0.00 % 0.0029	0.01 % 0.0038	0.00 % 0.0026	0.00 % 0.0029	0.00 % 0.0011
108	0.01 % 0.0034	0.01 % 0.0045	0.00 % 0.0030	0.01 % 0.0036	0.00 % 0.0012
109	0.03 % 0.0204	0.04 % 0.0242	0.03 % 0.0202	0.03 % 0.0167	0.02 % 0.0113
110	0.00 % 0.0006	0.00 % 0.0007	0.00 % 0.0007	0.00 % 0.0007	0.00 % 0.0007
111	0.01 % 0.0033	0.01 % 0.0036	0.01 % 0.0034	0.01 % 0.0034	0.01 % 0.0034
112	0.00 % 0.0029	0.03 % 0.0169	0.07 % 0.0440	0.01 % 0.0080	0.01 % 0.0040
113	0.01 % 0.0072	0.05 % 0.0327	0.03 % 0.0181	0.02 % 0.0096	0.02 % 0.0094
114	0.03 % 0.0216	0.15 % 0.0964	0.95 % 0.5000	0.07 % 0.0405	0.05 % 0.0316
115	0.01 % 0.0085	0.01 % 0.0073	0.02 % 0.0112	0.01 % 0.0059	0.02 % 0.0113
116	0.02 % 0.0152	0.00 % 0.0022	0.00 % 0.0027	0.00 % 0.0017	0.01 % 0.0072
117	0.02 % 0.0152	0.00 % 0.0022	0.00 % 0.0027	0.00 % 0.0017	0.01 % 0.0072
118	0.03 % 0.0168	0.01 % 0.0031	0.01 % 0.0037	0.00 % 0.0023	0.01 % 0.0088
119	0.03 % 0.0168	0.01 % 0.0031	0.01 % 0.0037	0.00 % 0.0023	0.01 % 0.0088
120	0.14 % 0.0888	0.06 % 0.0349	0.08 % 0.0516	0.04 % 0.0249	0.23 % 0.1364
121	0.10 % 0.0610	0.04 % 0.0239	0.06 % 0.0354	0.03 % 0.0171	0.16 % 0.0935
122	0.00 % 0.0023	0.00 % 0.0010	0.00 % 0.0012	0.00 % 0.0007	0.00 % 0.0027
123	0.00 % 0.0014	0.00 % 0.0024	0.01 % 0.0065	0.01 % 0.0065	0.00 % 0.0015
124	0.00 % 0.0016	0.01 % 0.0049	0.01 % 0.0053	0.01 % 0.0089	0.00 % 0.0017
125	0.00 % 0.0016	0.01 % 0.0049	0.01 % 0.0053	0.01 % 0.0089	0.00 % 0.0017
126	0.00 % 0.0017	0.00 % 0.0010	0.00 % 0.0011	0.00 % 0.0010	0.00 % 0.0015

AQDM RUN -YEAR 1985- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR	RECEPTOR
	51	61	62	75	50
127	0.02 %	0.01 %	0.02 %	0.01 %	0.02 %
	0.0140	0.0088	0.0095	0.0084	0.0125
128	0.02 %	0.01 %	0.02 %	0.01 %	0.02 %
	0.0140	0.0088	0.0095	0.0084	0.0125
129	0.02 %	0.01 %	0.02 %	0.01 %	0.02 %
	0.0140	0.0088	0.0095	0.0084	0.0125
130	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0091	0.0062	0.0067	0.0060	0.0082
131	0.01 %	0.00 %	0.01 %	0.00 %	0.01 %
	0.0043	0.0030	0.0033	0.0029	0.0040
132	0.07 %	0.05 %	0.06 %	0.05 %	0.07 %
	0.0433	0.0321	0.0351	0.0324	0.0400
133	0.02 %	0.01 %	0.02 %	0.02 %	0.02 %
	0.0116	0.0092	0.0100	0.0096	0.0108
134	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0023	0.0019	0.0020	0.0019	0.0022
135	0.04 %	0.03 %	0.03 %	0.03 %	0.04 %
	0.0251	0.0188	0.0205	0.0190	0.0233
136	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0014	0.0011	0.0012	0.0012	0.0013
137	0.02 %	0.01 %	0.02 %	0.02 %	0.02 %
	0.0117	0.0093	0.0100	0.0096	0.0108
138	0.02 %	0.01 %	0.02 %	0.02 %	0.02 %
	0.0116	0.0092	0.0100	0.0096	0.0108
139	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0051	0.0041	0.0044	0.0042	0.0048
140	0.01 %	0.00 %	0.00 %	0.00 %	0.01 %
	0.0037	0.0024	0.0026	0.0022	0.0033
141	0.06 %	0.04 %	0.05 %	0.04 %	0.06 %
	0.0390	0.0273	0.0297	0.0266	0.0354
142	0.02 %	0.01 %	0.01 %	0.01 %	0.02 %
	0.0109	0.0082	0.0089	0.0082	0.0101
143	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0022	0.0017	0.0018	0.0017	0.0020
144	0.04 %	0.03 %	0.03 %	0.03 %	0.03 %
	0.0228	0.0160	0.0174	0.0156	0.0207
145	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
	0.0013	0.0010	0.0011	0.0010	0.0012
146	0.02 %	0.01 %	0.01 %	0.01 %	0.02 %
	0.0110	0.0082	0.0089	0.0082	0.0101
147	0.02 %	0.01 %	0.01 %	0.01 %	0.02 %
	0.0109	0.0082	0.0089	0.0082	0.0101

AQDM RUN -YEAR 1985- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 51	RECEPTOR 61	RECEPTOR 62	RECEPTOR 75	RECEPTOR 50
148	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0048	0.0036	0.0039	0.0036	0.0045
149	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0051	0.0033	0.0037	0.0032	0.0046
150	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0051	0.0033	0.0037	0.0032	0.0046
151	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0051	0.0033	0.0037	0.0032	0.0046
152	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
	0.0051	0.0033	0.0037	0.0032	0.0046
153	0.04 %	0.17 %	0.13 %	0.61 %	0.04 %
	0.0245	0.1044	0.0808	0.3588	0.0267
154	0.05 %	0.16 %	0.10 %	0.84 %	0.05 %
	0.0286	0.1016	0.0641	0.5041	0.0307
155	0.04 %	0.15 %	0.12 %	1.38 %	0.05 %
	0.0238	0.0942	0.0742	0.8291	0.0282
156	0.06 %	0.31 %	0.18 %	2.06 %	0.06 %
	0.0377	0.1950	0.1091	1.2379	0.0365
157	0.08 %	0.85 %	0.34 %	1.02 %	0.10 %
	0.0521	0.5319	0.2078	0.6144	0.0624
158	0.16 %	7.21 %	0.85 %	0.77 %	0.22 %
	0.1030	4.4974	0.5230	0.4659	0.1301
159	0.08 %	0.64 %	0.31 %	1.44 %	0.08 %
	0.0504	0.4025	0.1916	0.8657	0.0500
160	0.04 %	0.18 %	0.13 %	4.70 %	0.05 %
	0.0239	0.1125	0.0819	2.8276	0.0285
161	0.18 %	0.98 %	0.65 %	4.26 %	0.23 %
	0.1098	0.6115	0.3296	2.5606	0.1374
162	0.06 %	1.15 %	0.46 %	0.50 %	0.06 %
	0.0379	0.7174	0.2847	0.2992	0.0372
163	0.10 %	3.73 %	0.79 %	0.28 %	0.14 %
	0.0649	2.3268	0.4930	0.1657	0.0841
164	0.08 %	1.39 %	1.18 %	0.28 %	0.08 %
	0.0489	0.8656	0.7263	0.1672	0.0490
165	0.13 %	0.84 %	0.93 %	0.91 %	0.15 %
	0.0783	0.5269	0.5727	0.5491	0.0917
166	0.18 %	0.82 %	1.14 %	0.78 %	0.24 %
	0.1144	0.5094	0.6987	0.4704	0.1442
167	0.09 %	0.47 %	5.48 %	0.16 %	0.09 %
	0.0521	0.2255	3.3628	0.0950	0.0557
168	0.02 %	0.07 %	0.14 %	0.02 %	0.03 %
	0.0126	0.0413	0.0852	0.0146	0.0192

AQDM RUN -YEAR 1985- FOR CHARLESTON ACMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 51	RECEPTOR 61	RECEPTOR 62	RECEPTOR 75	RECEPTOR 50
169	0.03 % 0.0193	0.18 % 0.1102	0.73 % 0.4483	0.05 % 0.0325	0.05 % 0.0277
170	0.01 % 0.0082	0.09 % 0.0536	0.10 % 0.0660	0.02 % 0.0114	0.02 % 0.0105
171	0.11 % 0.0714	0.17 % 0.1080	0.17 % 0.1018	0.13 % 0.0788	0.15 % 0.0876
172	0.25 % 0.1572	0.56 % 0.3502	0.46 % 0.2823	0.45 % 0.2704	0.31 % 0.1849
173	0.13 % 0.0809	0.23 % 0.1416	0.21 % 0.1268	0.29 % 0.1773	0.15 % 0.0897
174	0.10 % 0.0652	0.26 % 0.1652	0.21 % 0.1294	0.26 % 0.1556	0.12 % 0.0745
175	0.30 % 0.1880	0.38 % 0.2387	0.36 % 0.2206	0.39 % 0.2374	0.33 % 0.1990
176	0.02 % 0.0155	0.04 % 0.0240	0.04 % 0.0218	0.05 % 0.0328	0.03 % 0.0164
177	0.94 % 0.5848	0.76 % 0.4735	0.80 % 0.4925	0.69 % 0.4146	1.01 % 0.6054
178	1.65 % 1.0303	1.68 % 1.0475	1.67 % 1.0217	1.63 % 0.9799	1.78 % 1.0709
179	1.62 % 1.0114	1.50 % 0.9339	1.54 % 0.9457	1.43 % 0.8619	1.74 % 1.0447
180	1.38 % 0.8654	1.25 % 0.7817	1.29 % 0.7882	1.21 % 0.7282	1.42 % 0.8542
181	2.09 % 1.3040	1.86 % 1.1600	1.94 % 1.1910	1.87 % 1.1237	2.14 % 1.2816
182	1.05 % 0.6594	0.84 % 0.5222	0.86 % 0.5242	0.82 % 0.4925	1.03 % 0.6152
183	0.43 % 0.2686	0.33 % 0.2048	0.33 % 0.2020	0.31 % 0.1838	0.41 % 0.2481
184	0.32 % 0.1971	0.17 % 0.1047	0.19 % 0.1164	0.15 % 0.0902	0.33 % 0.1997
185	0.95 % 0.5916	0.68 % 0.4225	0.71 % 0.4352	0.46 % 0.2796	1.16 % 0.6945
186	0.44 % 0.2756	0.29 % 0.1784	0.34 % 0.2080	0.22 % 0.1340	0.52 % 0.3098
187	0.21 % 0.1317	0.15 % 0.0947	0.17 % 0.1066	0.13 % 0.0770	0.24 % 0.1415
188	0.23 % 0.1429	0.30 % 0.1875	0.34 % 0.2112	0.20 % 0.1223	0.31 % 0.1855
189	0.64 % 0.3971	1.31 % 0.8159	1.16 % 0.7111	0.74 % 0.4443	0.83 % 0.4957

AQDM RUN -YEAR 1985- FOR CHARLESTON ACMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 51	RECEPTOR 61	RECEPTOR 62	RECEPTOR 75	RECEPTOR 50
190	0.23 %	0.19 %	0.19 %	0.17 %	0.25 %
	0.1420	0.1205	0.1192	0.1032	0.1491
191	0.59 %	0.41 %	0.42 %	0.36 %	0.57 %
	0.3708	0.2554	0.2564	0.2147	0.3442
192	0.46 %	0.36 %	0.35 %	0.27 %	0.47 %
	0.2901	0.2220	0.2160	0.1624	0.2848
193	0.18 %	0.12 %	0.12 %	0.10 %	0.17 %
	0.1123	0.0754	0.0754	0.0622	0.1001
194	0.36 %	0.22 %	0.21 %	0.17 %	0.32 %
	0.2265	0.1350	0.1287	0.1042	0.1906
195	0.19 %	0.12 %	0.14 %	0.12 %	0.19 %
	0.1160	0.0756	0.0848	0.0628	0.1140
196	0.60 %	0.34 %	0.33 %	0.22 %	0.65 %
	0.3782	0.2143	0.2020	0.1349	0.3920
197	0.58 %	0.20 %	0.23 %	0.19 %	0.51 %
	0.3647	0.1250	0.1436	0.1162	0.3071
198	0.13 %	0.04 %	0.05 %	0.04 %	0.11 %
	0.0815	0.0271	0.0326	0.0219	0.0644
199	0.13 %	0.03 %	0.04 %	0.02 %	0.10 %
	0.0823	0.0198	0.0246	0.0136	0.0571
200	0.75 %	0.22 %	0.27 %	0.14 %	0.67 %
	0.4709	0.1390	0.1655	0.0820	0.4023
201	0.74 %	0.37 %	0.37 %	0.26 %	0.77 %
	0.4965	0.2284	0.2288	0.1534	0.4638
202	0.40 %	0.18 %	0.20 %	0.14 %	0.33 %
	0.2516	0.1154	0.1216	0.0856	0.1999
203	2.47 %	0.48 %	0.43 %	0.28 %	2.76 %
	1.5437	0.2996	0.2631	0.1656	1.6535
204	4.88 %	0.16 %	0.21 %	0.10 %	0.96 %
	3.0513	0.0278	0.1299	0.0556	0.5771
205	3.25 %	0.62 %	0.82 %	0.50 %	1.48 %
	2.0294	0.3852	0.5023	0.3008	0.8860
206	5.33 %	1.32 %	1.85 %	1.10 %	7.97 %
	3.3354	0.8235	1.1344	0.6617	4.7845
207	0.09 %	0.08 %	0.10 %	0.05 %	0.14 %
	0.0548	0.0593	0.0602	0.0326	0.0854
208	0.28 %	0.55 %	0.77 %	0.45 %	0.32 %
	0.1748	0.3463	0.4748	0.2687	0.1911
209	0.31 %	0.45 %	0.44 %	0.53 %	0.34 %
	0.1935	0.2789	0.2673	0.3188	0.2042
210	0.55 %	0.88 %	0.86 %	1.14 %	0.62 %
	0.3410	0.5474	0.5274	0.6878	0.3705

AQCM RUN -YEAR 1985- FOR CHARLESTON AQMA, SOUTH CAROLINA 11/15/76

SOURCE CONTRIBUTIONS TO FIVE MAXIMUM RECEPTORS

ANNUAL PARTICULATES

MICROGRAMS PER CUBIC METER

SOURCE	RECEPTOR 51	RECEPTOR 61	RECEPTOR 62	RECEPTOR 75	RECEPTOR 50
211	0.14 %	0.25 %	0.20 %	0.34 %	0.17 %
	0.0302	0.1562	0.1230	0.2047	0.1048
212	0.02 %	0.03 %	0.03 %	0.04 %	0.02 %
	0.0135	0.0180	0.0202	0.0251	0.0134
213	0.03 %	0.03 %	0.04 %	0.04 %	0.03 %
	0.0159	0.0206	0.0222	0.0232	0.0155
214	2.99 %	3.51 %	3.48 %	3.85 %	3.10 %
	1.8671	2.1883	2.1361	2.3163	1.8630
215	1.23 %	1.17 %	1.20 %	1.15 %	1.29 %
	0.7681	0.7309	0.7349	0.6889	0.7727
216	1.87 %	1.63 %	1.70 %	1.63 %	1.90 %
	1.1681	1.0180	1.0428	0.9785	1.1382
217	2.79 %	2.42 %	2.56 %	2.57 %	2.80 %
	1.7433	1.5072	1.5692	1.5486	1.6785
218	0.89 %	0.74 %	0.78 %	0.75 %	0.89 %
	0.5562	0.4603	0.4773	0.4540	0.5357
219	1.03 %	0.80 %	0.86 %	0.78 %	1.04 %
	0.6462	0.5013	0.5299	0.4677	0.6265
220	1.95 %	1.77 %	1.82 %	1.69 %	2.04 %
	1.2198	1.1071	1.1141	1.0191	1.2249
221	0.70 %	0.45 %	0.50 %	0.45 %	0.66 %
	0.4395	0.2807	0.3065	0.2703	0.3976
222	0.09 %	0.07 %	0.06 %	0.05 %	0.10 %
	0.0585	0.0407	0.0388	0.0281	0.0599
223	0.08 %	0.03 %	0.04 %	0.03 %	0.07 %
	0.0521	0.0194	0.0229	0.0157	0.0392
224	3.92 %	4.08 %	4.15 %	4.37 %	4.09 %
	2.4490	2.5473	2.5465	2.6261	2.4557
225	3.06 %	2.86 %	2.97 %	2.98 %	3.13 %
	1.9155	1.7827	1.8188	1.7931	1.8773
226	3.43 %	3.69 %	3.81 %	4.08 %	3.60 %
	2.1480	2.3009	2.3343	2.4513	2.1622
BACK-	31.98 %	32.05 %	32.62 %	33.25 %	33.33 %
GROUND	20.	20.	20.	20.	20.
TOTAL	100.0 %	100.1 %	100.1 %	100.1 %	100.0 %
	62.5607	62.5453	61.3464	60.1790	60.0283