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C767  
1983

# TEXAS AIR CONTROL BOARD



## CONTINUOUS AIR MONITORING NETWORK DATA SUMMARIES

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# 1983





### Continuous Monitoring Data Comments

This report provides a summary of data collected at Continuous Air Monitoring Stations (CAMS) operated by the Texas Air Control Board during 1983. A separate report summarizes 24-hour sampling results for total suspended particulate.

The symbol "●" is used to indicate that a set of data does not meet the Environmental Protection Agency's criteria (75% data return) for calculating an annual mean. Annual ambient air quality standards exist for nitrogen dioxide and sulfur dioxide.

Substantial effort has been made to insure the validity of the values developed from the CAMS system. Detailed information concerning station design, instrument configuration, data validation and quality assurance procedures may be obtained from the Quality Assurance or Ambient Monitoring Divisions of the Texas Air Control Board, 6330 Hwy. 290 East, Austin, Texas 78723.

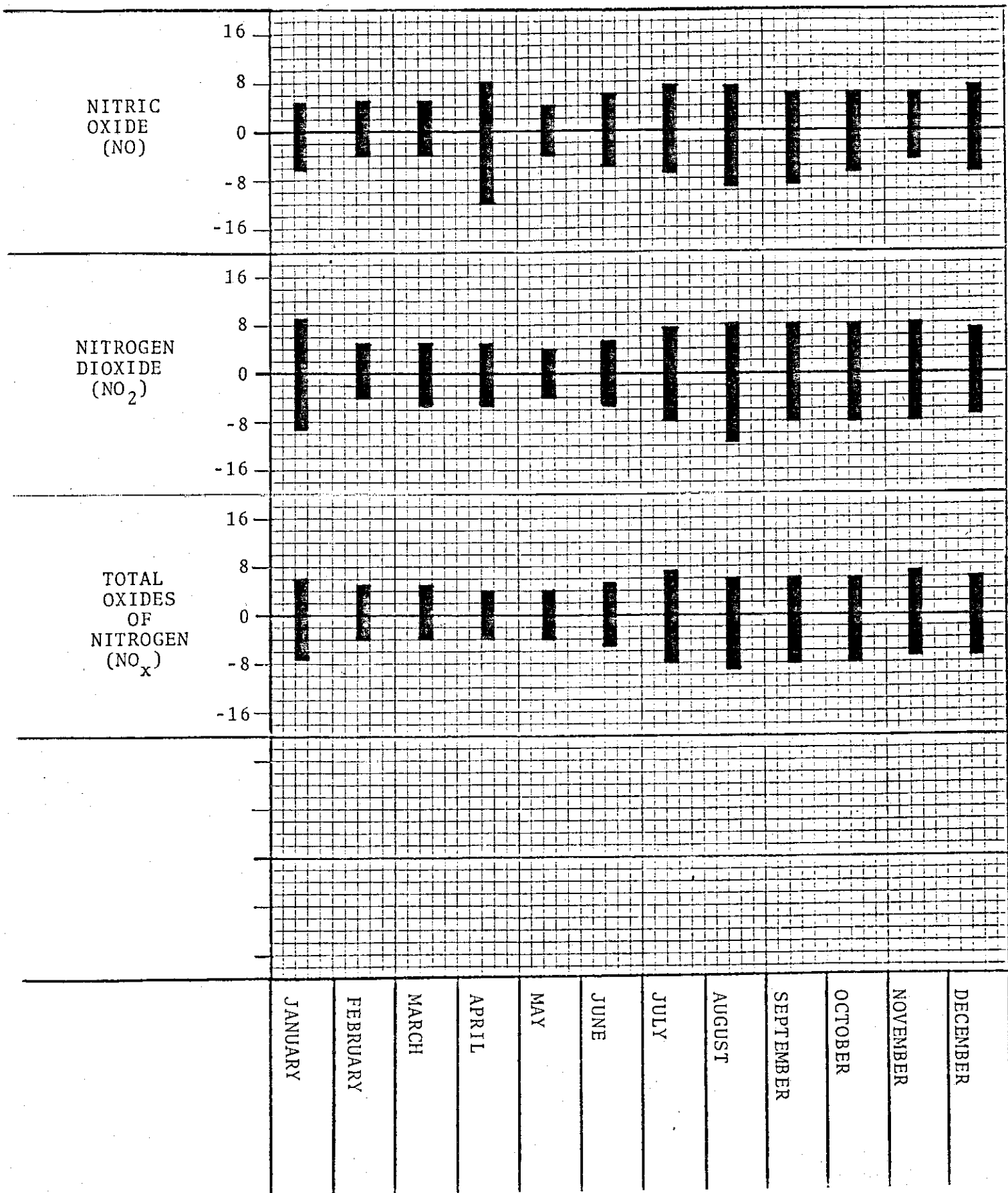


### Agency Precision

In January, 1981, the Agency started making precision measurements on the continuous monitors in the CAMS Network as required by Federal Regulations. These measurements consist of challenging the monitors at least once every two weeks with a known concentration of pollutant gas and reporting each monitor's calibrated response as a percent difference from the known concentration. These measurements are then processed into 95% probability limits which indicate the interval within which the percent difference should fall 95% of the time. The parameters monitored are as follows: Ozone, Carbon Monoxide, Sulfur Dioxide, Nitric Oxide, Nitrogen Dioxide, and Total Oxides of Nitrogen.

The following bar graphs are representations of the above mentioned 95% probability limits.

95% PROBABILITY LIMITS FOR PRECISION - 1983



### Agency Accuracy

The CAMS Network accuracy is calculated based on low-level instrument audits. The following parameters are monitored: Ozone, Carbon Monoxide, Sulfur Dioxide, Nitric Oxide, Nitrogen Dioxide, and Total Oxides of Nitrogen.

The NCAMS Network accuracy is calculated based on the Hi-Vol flow audits. Total suspended particulates is the pollutant monitored.

The 95% Probability Limits indicate the interval within which the percent difference between the measured value and the true (audit) value should fall 95% of the time.

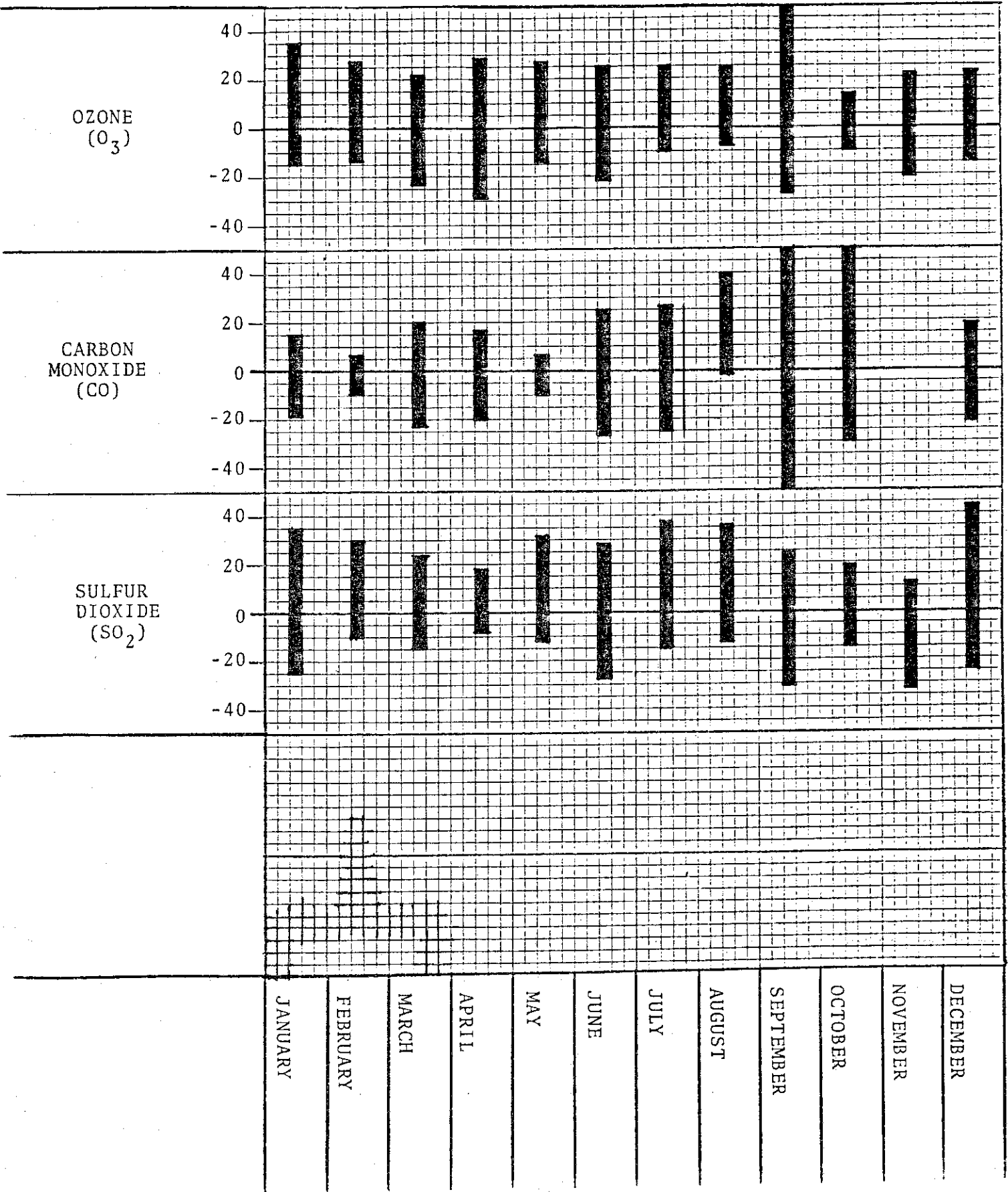
The following bar graphs are representations of the above mentioned 95% probability limits.

NOTE: The carbon monoxide 95 percent probability limits for November, 1983 could not be calculated due to insufficient data.





95% PROBABILITY LIMITS FOR ACCURACY - 1983





## Ambient Air Quality Standards

<u>National Standards</u>	<u>Primary</u> <sup>1</sup>	<u>Secondary</u> <sup>2</sup>
Carbon Monoxide (CO)	35 ppm hourly average, not to be exceeded more than once a year	same as primary
	9 ppm eight-hour average, not to be exceeded more than once a year	
Nitrogen Dioxide (NO <sub>2</sub> )	0.05 ppm annual average	same as primary
Ozone (O <sub>3</sub> )	0.12 ppm hourly average, not to be exceeded for an average of more than one day for a three year period	same as primary
Total Suspended Particulate Matter	260 µg/m <sup>3</sup> 24-hour average not to be exceeded more than once a year	150 µg/m <sup>3</sup> 24-hour average, not to be exceeded more than once a year
	75 µg/m <sup>3</sup> annual geometric mean	60 µg/m <sup>3</sup> annual geometric mean
Sulfur Dioxide (SO <sub>2</sub> )	365 µg/m <sup>3</sup> (0.14 ppm) 24-hour average, not to be exceeded more than once a year	1,300 µg/m <sup>3</sup> (0.5 ppm) three hour average, not to be exceeded more than once a year
	80 µg/m <sup>3</sup> (0.03 ppm) annual average	

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<sup>1</sup>Primary standards define levels of air quality which the U.S. Environmental Protection Agency's (EPA) Administrator judges necessary to protect the public health with an adequate margin of safety.

<sup>2</sup>Secondary standards define levels of air quality which the EPA Administrator judges necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.



SUMMARY OF 1983 CAMS DATA COMPARED WITH AMBIENT STANDARDS

Air Quality Control Region Number	Station Location	CAMS Number	Ozone Second-Highest Hour	Number of Days with Ozone > 0.12 ppm in 1983	Carbon Monoxide 2nd Highest Hour	Carbon Monoxide 2nd Highest 8-Hours (Nonoverlapping)	Sulfur Dioxide 2nd Highest 24-Hours	Sulfur Dioxide Annual Mean	Sulfur Dioxide 2nd Highest 3-Hours (Nonoverlapping)	Nitrogen Dioxide Annual Mean
Maximum Allowable by Ambient Air Standards (parts per million)			0.12	1 Day Average For 3 Yr	35	9	0.14	0.03	0.5	0.05
3	Austin, Northwest	3	0.12	0	-	-	0.01	0.01	0.02	-
	North of Austin, Travis County	25	0.09	0	-	-	-	-	-	-
5	Corpus Christi West	4	0.11	0	-	-	0.02	0.01*	0.17	-
	San Patricio Co., Odem	21	0.10	0*	-	-	0.01	0.00*	0.03	-
6	Odessa	14	0.10	0	10.5	4.1	0.01	0.00	0.06	0.01

\*Data less than 75% complete



SUMMARY OF 1983 CAMS DATA COMPARED WITH AMBIENT STANDARDS

Air Quality Control Region Number	Station Location	CAMS Number	Ozone Second-Highest Hour	Number of Days with Ozone > 0.12 ppm in 1983	Carbon Monoxide 2nd Highest Hour	Carbon Monoxide 2nd Highest 8-Hours (Nonoverlapping)	Sulfur Dioxide 2nd Highest 24-Hours	Sulfur Dioxide Annual Mean	Sulfur Dioxide 2nd Highest 3-Hours (Nonoverlapping)	Nitrogen Dioxide Annual Mean
Maximum Allowable by Ambient Air Standards (parts per million)			0.12	1 Day Average For 3 Yr	35	9	0.14	0.03	0.5	0.05
7	Houston, East 1224 Mae Drive	1	0.28	21	12.8	6.1	0.02	0.01	0.06	0.02
	Harris Co, Aldine	8	0.23	22	11.9	6.1	-	-	-	0.02
	Texas City	10	0.13	2*	-	-	0.06	0.01*	0.19	-
	Clute (Freeport)	11	0.14	4	-	-	0.00	0.00	0.02	-
	Channelview	15	0.11	0?	5.6	3.1	0.01	0.00	0.02	0.00
	Deer Park	18	0.27	18	-	-	0.02	0.01	0.05	0.02*
	Seabrook	20	0.25	16*	-	-	0.01	0.00	0.02	0.01*
	Houston, Manchester	22	-	-	-	-	0.03	0.01	0.15	-
	Baytown, McElroy McElroy Park	24	-	-	-	-	0.02	0.00	0.06	-

\*Data less than 75% complete





SUMMARY OF 1983 CAMS DATA COMPARED WITH AMBIENT STANDARDS

Air Quality Control Region Number	Station Location	CAMS Number	Ozone Second-Highest Hour	Number of Days with Ozone > 0.12 ppm in 1983	Carbon Monoxide 2nd Highest Hour	Carbon Monoxide 2nd Highest 8-Hours (Nonoverlapping)	Sulfur Dioxide 2nd Highest 24-Hours	Sulfur Dioxide Annual Mean	Sulfur Dioxide 2nd Highest 3-Hours (Nonoverlapping)	Nitrogen Dioxide Annual Mean
Maximum Allowable by Ambient Air Standards (parts per million)			0.12	1 Day Average For 3 Yr	35	9	0.14	0.03	0.5	0.05
7	Dyess Park N E Harris Co.	26	0.21	-	-	-	-	-	-	-
	Pasadena	31	-	-	-	-	0.03	0.01	0.10	-
8	Dallas, North	5	0.15	7	-	-	0.01	0.00	0.03	0.02
	Fort Worth, Northwest	13	0.17	1	7.6	3.0	0.04	0.00	0.14	0.02
	Fort Worth, Downtown	16	-	-	9.8	4.8	-	-	-	-
	N. Tarrant Co, Keller	17	0.15	5	-	-	-	-	-	-
9	San Antonio, North	7	0.12	1	11.2	5.1	0.01	0.00	0.03	0.01
	San Antonio Northwest #2	23	0.13	1	-	-	-	-	-	-

\*Data less than 75% complete



SUMMARY OF 1983 CAMS DATA COMPARED WITH AMBIENT STANDARDS

Air Quality Control Region Number	Station Location	CAMS Number	Ozone Second-Highest Hour	Number of Days with Ozone > 0.12 ppm in 1983	Carbon Monoxide 2nd Highest Hour	Carbon Monoxide 2nd Highest 8-Hours (Nonoverlapping)	Sulfur Dioxide 2nd Highest 24-Hours	Sulfur Dioxide Annual Mean	Sulfur Dioxide 2nd Highest 3-Hours (Nonoverlapping)	Nitrogen Dioxide Annual Mean
Maximum Allowable by Ambient Air Standards (parts per million)			0.12	1 Day Average For 3 Yr	35	9	0.14	0.03	0.5	0.05
9	San Antonio, Downtown (Old Post Office)	27	-	-	14.0	9.1	-	-	-	-
10	Beaumont, Downtown	2	0.16	6*	4.5	3.3	0.03	0.01*	0.14	0.02*
	West Orange	9	0.12	1*	-	-	0.01	0.00	0.02	0.01
	Port Arthur, West	28	-	-	-	-	0.04	0.01*	0.24	-
	Port Arthur, North	29	0.12	1*	-	-	0.03	0.01*	0.09	-
11	El Paso, Downtown	6	0.11	0	18.9	11.3	0.10	0.03	0.36	0.02
	El Paso, UTEP	12	0.14	3	11.7	8.2	0.11	0.03	0.38	0.02
	El Paso, Far West	30	0.12	0*	-	-	0.06	0.01	0.24	-

\*Data less than 75% complete



SUMMARY OF 1983 CAMS DATA COMPARED WITH AMBIENT STANDARDS

Air Quality Control Region Number	Station Location	CAMS Number	Ozone Second-Highest Hour	Number of Days with Ozone > 0.12 ppm in 1983	Carbon Monoxide 2nd Highest Hour	Carbon Monoxide 2nd Highest 8-Hours (Nonoverlapping)	Sulfur Dioxide 2nd Highest 24-Hours	Sulfur Dioxide Annual Mean	Sulfur Dioxide 2nd Highest 3-Hours (Nonoverlapping)	Nitrogen Dioxide Annual Mean
Maximum Allowable by Ambient Air Standards (parts per million)			0.12	1 Day Average For 3 Yr	35	9	0.14	0.03	0.5	0.05
12	Gregg, Co. (Longview)	19	0.15	4	-	-	0.01	0.00	0.05	0.00

\*Data less than 75% complete



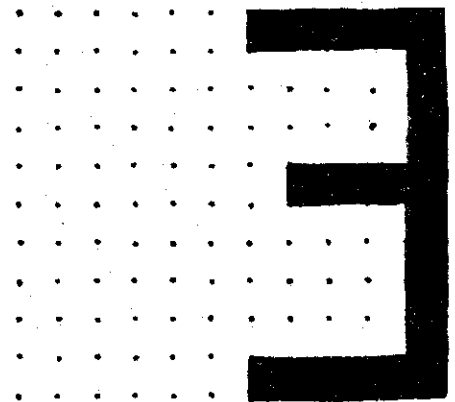
ORDER OF PRESENTATION

<u>AQCR</u>	<u>CAMS STATION NAME</u>	<u>CAMS #</u>
3	AUSTIN, NORTHWEST NORTH OF AUSTIN, TRAVIS COUNTY	3 25
5	CORPUS CHRISTI, WEST SAN PATRICIO COUNTY, ODEM	4 21
6	ODESSA	14
7	HOUSTON, EAST HARRIS COUNTY, ALDINE TEXAS CITY CLUTE (FREEPORT) CHANNELVIEW DEER PARK SEABROOK HOUSTON, MANCHESTER BAYTOWN NORTHWEST HARRIS COUNTY PASADENA	1 8 10 11 15 18 20 22 24 26 31
8	DALLAS, NORTH FORT WORTH, NORTHWEST FORT WORTH, DOWNTOWN NORTH TARRANT COUNTY, KELLER	5 13 16 17
9	SAN ANTONIO, NORTH SAN ANTONIO, NORTHWEST #2 SAN ANTONIO, DOWNTOWN	7 23 27
10	BEAUMONT WEST ORANGE PORT ARTHUR, WEST PORT ARTHUR, NORTH	2 9 28 29
11	EL PASO, DOWNTOWN EL PASO, UTEP EL PASO, FAR WEST (LINCOLN SCHOOL)	6 12 30
12	GREGG COUNTY (LONGVIEW)	19



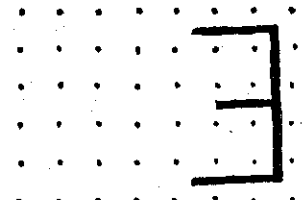


C A M S



AUSTIN, NORTH WEST  
MURCHISON JR. HIGH SCHOOL

REG:ION





OZONE (O<sub>3</sub>)

SUMMARY

AUSTIN, NORTHWEST

LOCATION CODE: 0220014 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 03/13/83

		DATE
HIGH ONE HOUR AVERAGE	.08 PPM	02/28/83
SECOND HIGH ONE HOUR AVERAGE	.07 PPM	03/01/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	1351	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.08

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

AUSTIN, NORTHWEST

LOCATION CODE: 0220014 AGENCY CODE: F

START DATE: 03/16/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.12 PPM	07/12/83
SECOND HIGH ONE HOUR AVERAGE	.12 PPM	05/28/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	5682	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.12



RESULTANT WIND SPEED SUMMARY

AUSTIN, NORTHWEST

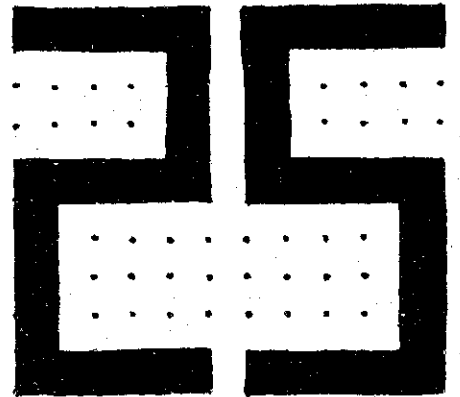
LOCATION CODE: 0220014 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	1.45	2.71	2.77	0.75	0.05	0.00	7.76
NNE	0.90	2.70	2.23	0.08	0.00	0.00	5.93
NE	0.81	2.02	0.65	0.00	0.00	0.00	3.49
ENE	1.01	2.64	0.26	0.00	0.00	0.00	3.92
E	1.42	2.01	0.03	0.00	0.00	0.00	3.47
ESE	1.72	2.81	0.11	0.00	0.00	0.00	4.65
SE	2.42	8.13	2.49	0.20	0.01	0.00	13.29
SSE	2.83	11.48	5.48	0.22	0.00	0.00	20.02
S	2.31	4.05	0.81	0.01	0.00	0.00	7.69
SSW	3.36	1.34	0.19	0.00	0.00	0.00	4.90
SW	1.76	0.93	0.12	0.01	0.00	0.00	2.83
WSW	1.06	0.82	0.17	0.03	0.00	0.00	2.09
W	0.80	1.28	0.52	0.10	0.01	0.00	2.72
WNW	0.55	1.29	1.29	0.23	0.03	0.00	3.40
Nw	1.02	2.05	2.01	0.61	0.02	0.00	5.73
NNW	0.96	2.49	3.06	1.03	0.08	0.00	7.64
TOTALS	24.96	48.83	22.27	3.32	0.22	0.00	100.00

TOTAL NUMBER OF HOURS 8576

C A M S



NORTH OF AUSTIN, TRAVIS COUNTY  
DUVAL ROAD & WATERS PARK ROAD

REGION 23





OZONE (CHLUM)

SUMMARY

N OF AUSTIN

LOCATION CODE: 5210003 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 03/15/83

	DATE
HIGH ONE HOUR AVERAGE	.07 PPM 02/18/83
SECOND HIGH ONE HOUR AVERAGE	.07 PPM 02/18/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM
NUMBER OF HOURS EXCEEDING 0.12 PPM	0
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %
TOTAL NUMBER OF HOURS	1488

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.07

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

N OF AUSTIN

LOCATION CODE: 5210003 AGENCY CODE: F

START DATE: 03/16/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.09 PPM	05/25/83
SECOND HIGH ONE HOUR AVERAGE	.09 PPM	10/01/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	6048	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.09

RESULTANT WIND SPEED SUMMARY

N OF AUSTIN

LOCATION CODE: 5210003 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	7.75	2.73	2.56	0.38	0.00	0.00	13.43
NNE	5.44	2.17	2.49	0.40	0.00	0.00	10.51
NE	1.55	1.75	0.95	0.01	0.00	0.00	4.28
ENE	0.89	1.50	0.19	0.00	0.00	0.00	2.60
E	1.34	1.72	0.17	0.00	0.00	0.00	3.25
ESE	1.88	2.25	0.18	0.00	0.00	0.00	4.33
SE	2.34	2.64	0.17	0.00	0.00	0.00	5.16
SSE	3.06	3.58	0.51	0.08	0.01	0.00	7.26
S	2.56	6.67	4.49	0.63	0.03	0.00	14.40
SSW	1.41	4.24	4.46	0.89	0.01	0.00	11.02
SW	0.83	1.44	0.99	0.11	0.00	0.00	3.38
WSW	0.55	0.52	0.11	0.01	0.00	0.00	1.20
W	0.79	0.51	0.17	0.12	0.00	0.00	1.60
WNW	0.73	1.03	0.46	0.04	0.03	0.00	2.31
NW	1.59	1.33	0.79	0.09	0.01	0.00	3.84
NNW	4.50	2.93	1.96	0.29	0.01	0.00	9.70
TOTALS	37.29	37.09	20.70	3.10	0.12	0.00	100.00

TOTAL NUMBER OF HOURS 8151



CAMES 4

CORPUS CHRISTI, WEST  
CORPUS CHRISTI STATE SCHOOL  
AIRPORT ROAD

REGION 5



OZONE (CHLUM)

SUMMARY

CDRPIUS CHRISTI, WEST

LOCATION CODE: 1150025 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 05/14/83

		DATE
HIGH ONE HOUR AVERAGE	.11 PPM	05/08/83
SECOND HIGH ONE HOUR AVERAGE	.11 PPM	05/08/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.04 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	2817	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.11

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

CORPUS CHRISTI, WEST

LOCATION CODE: 1150025 AGENCY CODE: F

START DATE: 05/23/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.11 PPM 08/27/83
SECOND HIGH ONE HOUR AVERAGE	.10 PPM 06/24/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM
NUMBER OF HOURS EXCEEDING 0.12 PPM	0
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %
TOTAL NUMBER OF HOURS	4694

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.11



SULFUR DIOXIDE (PUL FL) SUMMARY

CORPUS CHRISTI, WEST

LOCATION CODE: 1150025 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.21 PPM 12/29/83
SECOND HIGH ONE HOUR AVERAGE	.21 PPM 12/29/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM
TOTAL NUMBER OF HOURS	6479

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.21

	DATE
HIGH 24-HOUR AVERAGE	.08 PPM 12/29/83
SECOND HIGH 24-HOUR AVERAGE	.02 PPM 12/30/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.00 PPM
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	0
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	.0
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	0
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	.0
TOTAL NUMBER OF 24-HOUR AVERAGES	279

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.08

	DATE
HIGH THREE HOUR RUNNING AVERAGE	.19 PPM 12/29/83
SECOND HIGH THREE HOUR RUNNING AVERAGE NONOVERLAPPING	.17 PPM 12/27/83
ARITHMETIC MEAN OF THREE HOUR RUNNING AVERAGES	.00 PPM
STANDARD DEVIATION OF THREE HOUR RUNNING AVERAGES	.01 PPM
TOTAL NUMBER OF THREE HOUR RUNNING AVERAGES	5852

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.19

RESULTANT WIND SPEED SUMMARY

CORPUS CHRISTI, WEST

LOCATION CODE: 1150025 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	0.62	2.38	3.21	1.60	0.58	0.00	8.41
NNE	0.46	2.13	2.67	0.83	0.00	0.00	6.10
NE	0.52	1.73	2.10	0.27	0.00	0.00	4.63
ENE	0.64	2.48	4.71	1.33	0.00	0.00	9.22
E	0.70	4.35	5.63	1.87	0.01	0.00	12.58
ESE	0.84	3.73	4.35	3.75	0.29	0.03	13.02
SE	0.66	2.93	4.85	4.22	0.59	0.07	13.34
SSE	0.71	2.51	3.25	2.89	0.73	0.04	10.16
S	0.52	0.99	1.00	0.59	0.42	0.00	3.54
SSW	0.45	0.71	0.39	0.15	0.01	0.00	1.72
SW	0.62	0.41	0.22	0.05	0.08	0.02	1.43
WSW	0.60	0.46	0.24	0.10	0.02	0.00	1.44
W	0.70	0.49	0.11	0.21	0.01	0.00	1.54
WNW	0.67	0.84	0.40	0.53	0.08	0.02	2.61
NW	0.56	1.29	1.15	0.85	0.41	0.03	4.32
NNW	0.47	1.10	2.19	1.69	0.24	0.02	5.74
TOTALS	9.80	28.61	36.55	21.10	3.52	0.26	100.00

TOTAL NUMBER OF HOURS 8423

C A M S 21

ODEM  
SAN PATRICIO COUNTY

REGION 5



OZONE (CHLUM)

SUMMARY

SAN PATRICIO CO(ODEM)

LOCATION CODE: 4650002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 04/17/83

		DATE
HIGH ONE HOUR AVERAGE	.10 PPM	01/28/83
SECOND HIGH ONE HOUR AVERAGE	.09 PPM	02/17/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0	
TOTAL NUMBER OF HOURS	2095	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.10

See following case for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

SAN PATRICIO CO(ODEM)

LOCATION CODE: 4650002 AGENCY CODE: F

START DATE: 06/08/83 END DATE: 12/19/83

		DATE
HIGH ONE HOUR AVERAGE	.10 PPM	07/08/83
SECOND HIGH ONE HOUR AVERAGE	.10 PPM	07/08/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	4226	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.05	0.10



RESULTANT WIND SPEED SUMMARY

SAN PATRICIO CO(CODEM)

LOCATION CODE: 4650002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	0.93	5.44	2.79	1.00	0.01	0.00	10.19
NNE	0.78	4.97	2.78	0.37	0.00	0.00	8.91
NE	0.89	3.75	1.63	0.06	0.01	0.00	6.37
ENE	0.78	2.41	1.12	0.12	0.00	0.00	4.44
E	0.31	2.75	1.51	0.16	0.00	0.00	5.24
ESE	0.93	2.61	1.94	0.56	0.05	0.00	6.11
SE	1.14	2.87	5.75	3.49	0.05	0.00	13.33
SSE	1.25	3.64	4.13	3.36	0.35	0.20	12.95
S	0.96	3.51	3.80	2.05	0.20	0.00	10.53
SSW	0.63	1.30	1.15	0.44	0.01	0.00	3.55
SW	0.79	1.17	0.57	0.15	0.05	0.00	2.75
WSW	0.61	0.74	0.33	0.11	0.01	0.00	1.81
W	0.50	0.55	0.35	0.09	0.05	0.05	1.62
WNW	0.56	0.78	0.33	0.26	0.00	0.00	1.94
NW	0.60	1.91	1.33	0.78	0.08	0.01	4.73
NNW	0.67	2.71	1.43	0.53	0.01	0.00	5.37
TOTALS	12.91	41.17	31.01	13.59	0.93	0.27	100.00

TOTAL NUMBER OF HOURS 7261



CAMES 14

ODESSA  
GRANDVIEW AND BRENTWOOD

REGION 6



OZONE (CHLUM)

SUMMARY

ODESSA

LOCATION CODE: 3910002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 11/17/83

		DATE
HIGH ONE HOUR AVERAGE	.11 PPM	08/19/83
SECOND HIGH ONE HOUR AVERAGE	.10 PPM	06/28/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 2	
TOTAL NUMBER OF HOURS	6472	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.11

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

ODESSA

LOCATION CODE: 3910002 AGENCY CODE: F

START DATE: 12/19/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.04 PPM 12/24/83
SECOND HIGH ONE HOUR AVERAGE	.04 PPM 12/24/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM
NUMBER OF HOURS EXCEEDING 0.12 PPM	0
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %
TOTAL NUMBER OF HOURS	266

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04

CARBON MONOXIDE (NDIR) SUMMARY

ODESSA

LOCATION CODE: 3910002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	10.8 PPM	12/14/83
SECOND HIGH ONE HOUR AVERAGE	10.5 PPM	10/27/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	1.1 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.6 PPM	
NUMBER OF HOURS EXCEEDING 35 PPM	0	
PERCENT OF HOJRS EXCEEDING 35 PPM	.0 %	
TOTAL NUMBER OF HOURS	7167	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALLES

%	10	20	30	40	50	60	70	80	90	100
	0.7	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.5	10.8

DATE

HIGH 8-HOUR RUNNING AVERAGE	6.2 PPM	12/14/83
SECOND HIGH 8-HOUR RUNNING AVERAGE NONOVERLAPPING	4.1 PPM	10/27/83
ARITHMETIC MEAN OF 8-HOUR RUNNING AVERAGES	1.1 PPM	
STANDARD DEVIATION OF 8-HOUR RUNNING AVERAGES	.4 PPM	
TOTAL NUMBER OF 8-HOUR RUNNING AVERAGES	7344	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALLES

%	10	20	30	40	50	60	70	80	90	100
	0.8	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.4	6.2



NITROGEN DIOXIDE(CHLUM) SUMMARY

ODESSA

LOCATION CODE: 3910002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.07 PPM 01/03/83
SECOND HIGH ONE HOUR AVERAGE	.06 PPM 02/23/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM
TOTAL NUMBER OF HOURS	6960

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.07

	DATE
HIGH 24-HOUR AVERAGE	.03 PPM 01/05/83
SECOND HIGH 24-HOUR AVERAGE	.03 PPM 01/03/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM
TOTAL NUMBER OF 24-HOUR AVERAGES	297

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.03





OXIDES OF NITROGEN (CL) SUMMARY

ODESSA

LOCATION CODE: 3910002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.35 PPM 12/14/83
SECOND HIGH ONE HOUR AVERAGE	.27 PPM 10/27/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM
TOTAL NUMBER OF HOURS	7017

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.35

	DATE
HIGH 24-HOUR AVERAGE	.06 PPM 01/05/83
SECOND HIGH 24-HOUR AVERAGE	.05 PPM 12/14/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM
TOTAL NUMBER OF 24-HOUR AVERAGES	299

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.06

RESULTANT WIND SPEED SUMMARY

ODESSA

LOCATION CODE: 3910002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	0.48	0.94	1.23	0.61	0.16	0.01	3.45
NNE	0.40	1.05	1.54	0.92	0.02	0.00	3.96
NE	0.35	1.64	1.96	0.65	0.02	0.00	4.63
ENE	0.56	1.66	1.19	0.21	0.05	0.00	3.70
E	0.80	2.31	1.26	0.05	0.00	0.00	4.43
ESE	0.88	2.90	1.22	0.05	0.00	0.00	5.05
SE	0.96	4.39	1.85	0.20	0.00	0.00	7.41
SSE	0.75	5.95	4.28	0.24	0.00	0.00	11.24
S	0.66	6.51	6.53	0.36	0.00	0.00	14.08
SSW	0.55	3.21	4.81	0.94	0.00	0.00	9.53
SW	0.73	2.71	2.61	0.47	0.02	0.00	6.56
WSW	0.86	2.30	2.02	0.82	0.13	0.00	6.15
W	0.77	1.50	2.25	1.11	0.61	0.04	6.29
WNW	0.92	1.41	1.03	0.69	0.08	0.00	4.13
NW	0.51	1.85	1.74	0.58	0.12	0.00	4.82
NNW	0.40	1.27	1.30	0.58	0.24	0.04	3.85
TOTALS	10.66	41.68	36.89	8.54	1.49	0.09	100.00

TOTAL NUMBER OF HOURS 7372

E A M S 1

HOUSTON, EAST  
1224 MAE DRIVE

REG:ION 7



OZONE (CHLUM)

SUMMARY

HOUSTON, EAST

LOCATION CODE: 2560034 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 10/11/83

		DATE
HIGH ONE HOUR AVERAGE	.29 PPM	05/22/83
SECOND HIGH ONE HOUR AVERAGE	.28 PPM	05/22/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.03 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	51	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.8 %	
TOTAL NUMBER OF HOURS	6228	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.06	0.29

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

HOUSTON, EAST

LOCATION CODE: 2560034 AGENCY CODE: F

START DATE: 10/11/83 END DATE: 12/29/83

		DATE
HIGH ONE HOUR AVERAGE	.18 PPM	12/12/83
SECOND HIGH ONE HOUR AVERAGE	.10 PPM	10/27/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	1	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.1 %	
TOTAL NUMBER OF HOURS	1748	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.04	0.18

CARBON MONOXIDE (NDIR) SUMMARY

HOUSTON, EAST

LOCATION CODE: 2560034 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	15.2 PPM	01/11/83
SECOND HIGH ONE HOUR AVERAGE	12.8 PPM	01/24/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	1.2 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.9 PPM	
NUMBER OF HOURS EXCEEDING 35 PPM	0	
PERCENT OF HOURS EXCEEDING 35 PPM	.0 %	
TOTAL NUMBER OF HOURS	8062	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	2.0	15.2

		DATE
HIGH 8-HOUR RUNNING AVERAGE	7.6 PPM	01/11/83
SECOND HIGH 8-HOUR RUNNING AVERAGE NONOVERLAPPING	6.1 PPM	12/30/83
ARITHMETIC MEAN OF 8-HOUR RUNNING AVERAGES	1.2 PPM	
STANDARD DEVIATION OF 8-HOUR RUNNING AVERAGES	.7 PPM	
TOTAL NUMBER OF 8-HOUR RUNNING AVERAGES	8271	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.6	0.8	0.8	0.9	1.0	1.1	1.3	1.5	1.9	7.6

SULFUR DIOXIDE (PUL FL) SUMMARY

HOUSTON, EAST

LOCATION CODE: 2560034 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.21 PPM	01/31/83
SECOND HIGH ONE HOUR AVERAGE	.20 PPM	01/31/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF HOURS	6549	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.21

		DATE
HIGH 24-HOUR AVERAGE	.02 PPM	12/27/83
SECOND HIGH 24-HOUR AVERAGE	.02 PPM	11/22/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.00 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.00 PPM	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	0	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	.0 %	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	0	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	.0 %	
TOTAL NUMBER OF 24-HOUR AVERAGES	286	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02

		DATE
HIGH THREE HOUR RUNNING AVERAGE	.08 PPM	12/27/83
SECOND HIGH THREE HOUR RUNNING AVERAGE NONOVERLAPPING	.06 PPM	11/14/83
ARITHMETIC MEAN OF THREE HOUR RUNNING AVERAGES	.00 PPM	
STANDARD DEVIATION OF THREE HOUR RUNNING AVERAGES	.01 PPM	
TOTAL NUMBER OF THREE HOUR RUNNING AVERAGES	6136	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.08



NIROGEN DIOXIDE(CHLUM) SUMMARY

HOUSTON, EAST

LOCATION CODE: 2560034 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/30/83

		DATE
HIGH ONE HOUR AVERAGE	.15 PPM	07/04/83
SECOND HIGH ONE HOUR AVERAGE	.13 PPM	12/08/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF HOURS	7310	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALLES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.04	0.15

		DATE
HIGH 24-HOUR AVERAGE	.04 PPM	12/27/83
SECOND HIGH 24-HOUR AVERAGE	.04 PPM	09/23/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	312	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALLES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.04

NITRIC OXIDE (OHLUM) SUMMARY

HOUSTON, EAST

LOCATION CODE: 2560034 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/30/83

	DATE
HIGH ONE HOUR AVERAGE	.49 PPM 01/11/83
SECOND HIGH ONE HOUR AVERAGE	.49 PPM 01/11/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.05 PPM
TOTAL NUMBER OF HOURS	7569

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.04	0.07	0.49

	DATE
HIGH 24-HOUR AVERAGE	.21 PPM 01/11/83
SECOND HIGH 24-HOUR AVERAGE	.12 PPM 01/10/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.02 PPM
STANDARD DEVIATION OF 24-HOUR AVERAGES	.02 PPM
TOTAL NUMBER OF 24-HOUR AVERAGES	327

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.05	0.21

OXIDES OF NITROGEN (CL) SUMMARY

HOUSTON, EAST

LOCATION CODE: 2560034 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/30/83

		DATE
HIGH ONE HOUR AVERAGE	1.09 PPM	01/11/83
SECOND HIGH ONE HOUR AVERAGE	.82 PPM	01/11/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.05 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.06 PPM	
TOTAL NUMBER OF HOURS	7430	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.07	0.10	1.09

		DATE
HIGH 24-HOUR AVERAGE	.34 PPM	01/11/83
SECOND HIGH 24-HOUR AVERAGE	.16 PPM	11/29/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.04 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.03 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	319	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.03	0.03	0.04	0.04	0.05	0.06	0.08	0.34

RESULTANT WIND SPEED SUMMARY

HOUSTON, EAST

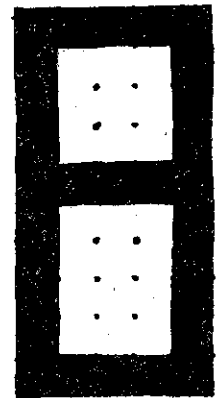
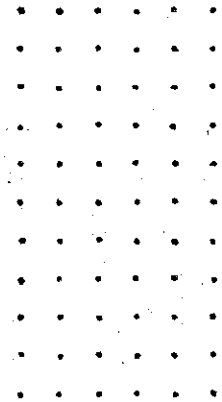
LOCATION CODE: 2560034 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	3.46	3.56	0.65	0.13	0.00	0.00	7.82
NNE	4.03	3.66	0.25	0.07	0.00	0.00	8.03
NE	3.40	1.72	0.07	0.01	0.00	0.00	5.21
ENE	2.63	0.98	0.00	0.00	0.00	0.00	3.61
E	2.65	0.78	0.00	0.00	0.00	0.00	3.44
ESE	2.21	1.30	0.00	0.00	0.00	0.00	3.51
SE	2.06	4.31	0.15	0.00	0.00	0.00	6.54
SSE	3.18	5.02	0.19	0.00	0.00	0.00	8.41
S	4.02	7.68	3.19	0.17	0.00	0.00	15.07
SSW	3.45	2.95	0.47	0.07	0.00	0.00	6.96
SW	2.16	0.71	0.06	0.00	0.00	0.00	2.93
WSW	1.54	0.41	0.00	0.00	0.00	0.00	1.96
W	1.97	0.78	0.12	0.01	0.00	0.00	2.90
WNW	1.94	1.85	0.54	0.09	0.00	0.00	4.43
NW	3.12	3.18	0.93	0.00	0.00	0.00	7.24
NNW	2.80	4.41	1.95	0.36	0.00	0.00	9.54
TOTALS	44.69	43.38	8.63	0.94	0.00	0.00	100.00

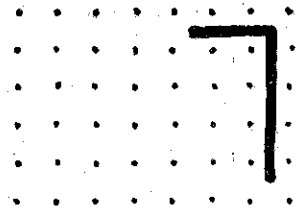
TOTAL NUMBER OF HOURS 8132

C A M S



HOUSTON, ALDINE  
HAMBRICK JR. HIGH SCHOOL  
4510 ALDINE MAIL ROUTE ROAD

REG:ION





OZONE (CHLUM)

SUMMARY

HARRIS COUNTY, ALDINE

LOCATION CODE: 2330024 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 08/29/83

		DATE
HIGH ONE HOUR AVERAGE	.24 PPM	05/22/83
SECOND HIGH ONE HOUR AVERAGE	.23 PPM	06/01/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.03 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	49	
PERCENT OF HOURS EXCEEDING 0.12 PPM	1.0 %	
TOTAL NUMBER OF HOURS	4982	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.07	0.24

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

HARRIS COUNTY, ALDINE

LOCATION CODE: 2330024 AGENCY CODE: F

START DATE: 03/31/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.15 PPM 09/16/83
SECOND HIGH ONE HOUR AVERAGE	.14 PPM 10/11/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM
NUMBER OF HOURS EXCEEDING 0.12 PPM	12
PERCENT OF HOURS EXCEEDING 0.12 PPM	.5 %
TOTAL NUMBER OF HOURS	2650

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.06	0.15



CARBON MONOXIDE (NDIR) SUMMARY

HARRIS COUNTY, ALOINE

LOCATION CODE: 2330024 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	12.5 PPM	01/11/83
SECOND HIGH ONE HOUR AVERAGE	11.9 PPM	01/11/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.6 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.9 PPM	
NUMBER OF HOURS EXCEEDING 35 PPM	0	
PERCENT OF HOURS EXCEEDING 35 PPM	.0 %	
TOTAL NUMBER OF HOURS	7485	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.8	1.5	12.5

DATE

HIGH 8-HOUR RUNNING AVERAGE	6.6 PPM	11/29/83
SECOND HIGH 8-HOUR RUNNING AVERAGE NONOVERLAPPING	6.1 PPM	01/11/83
ARITHMETIC MEAN OF 8-HOUR RUNNING AVERAGES	.5 PPM	
STANDARD DEVIATION OF 8-HOUR RUNNING AVERAGES	.7 PPM	
TOTAL NUMBER OF 8-HOUR RUNNING AVERAGES	7585	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.0	0.0	0.1	0.2	0.4	0.5	0.6	0.8	1.3	6.6

NITROGEN DIOXIDE(CHLUM) SUMMARY

HARRIS COUNTY, ALDINE

LOCATION CODE: 2330024 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.10 PPM 03/28/83
SECOND HIGH ONE HOUR AVERAGE	.09 PPM 01/14/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM
TOTAL NUMBER OF HOURS	7518

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.10

	DATE
HIGH 24-HOUR AVERAGE	.03 PPM 12/27/83
SECOND HIGH 24-HOUR AVERAGE	.03 PPM 11/17/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM
TOTAL NUMBER OF 24-HOUR AVERAGES	325

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03

NIITRIC OXIDE (CHLUM) SUMMARY

HARRIS COUNTY, ALOINE

LOCATION CODE: 2330024 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.47 PPM 11/28/83
SECOND HIGH ONE HOUR AVERAGE	.47 PPM 12/14/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.04 PPM
TOTAL NUMBER OF HOURS	7796

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.04	0.47

	DATE
HIGH 24-HOUR AVERAGE	.13 PPM 01/11/83
SECOND HIGH 24-HOUR AVERAGE	.12 PPM 01/14/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM
STANDARD DEVIATION OF 24-HOUR AVERAGES	.02 PPM
TOTAL NUMBER OF 24-HOUR AVERAGES	336

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.13

OXIDES OF NITROGEN (CL) SUMMARY

HARRIS COUNTY, ALDINE

LOCATION CODE: 2330024 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.56 PPM	11/28/83
SECOND HIGH ONE HOUR AVERAGE	.53 PPM	01/11/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.04 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.05 PPM	
TOTAL NUMBER OF HOURS	7796	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.05	0.08	0.56

		DATE
HIGH 24-HOUR AVERAGE	.16 PPM	01/14/83
SECOND HIGH 24-HOUR AVERAGE	.16 PPM	01/11/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.03 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.03 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	336	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.06	0.16

RESULTANT WIND SPEED SUMMARY

HARRIS COUNTY, ALDINE

LOCATION CODE: 2330024 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	2.68	2.60	3.12	1.09	0.03	0.00	9.55
NNE	3.68	3.10	1.66	0.16	0.01	0.00	8.62
NE	2.83	2.41	0.40	0.01	0.00	0.00	5.71
ENE	2.48	3.01	0.43	0.01	0.00	0.00	5.95
E	2.65	3.33	0.24	0.00	0.00	0.00	6.22
ESE	3.36	3.04	0.71	0.00	0.00	0.00	7.13
SE	3.48	4.42	2.10	0.02	0.00	0.01	10.04
SSE	2.65	3.98	4.17	0.77	0.01	0.00	11.60
S	2.33	2.97	3.73	1.29	0.01	0.01	10.37
SSW	1.26	1.87	1.12	0.24	0.00	0.01	4.51
SW	0.93	0.82	0.60	0.08	0.00	0.00	2.44
WSW	1.07	0.54	0.33	0.05	0.00	0.00	2.01
W	1.13	0.74	0.43	0.11	0.00	0.00	2.43
WNW	0.84	1.13	0.57	0.18	0.01	0.00	2.75
NW	0.93	1.19	0.75	0.35	0.01	0.02	3.27
NNW	1.80	1.97	1.75	0.81	0.03	0.00	6.39
TOTALS	34.23	37.18	22.21	5.23	0.12	0.05	100.00

TOTAL NUMBER OF HOURS 8637



C A M S 1 0

TEXAS CITY  
2702 13TH AVENUE NORTH

REGION 7





OZONE (CHLUM)

SUMMARY

TEXAS CITY

LOCATION CODE: 5170002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 08/21/83

		DATE
HIGH ONE HOUR AVERAGE	.16 PPM	05/24/83
SECOND HIGH ONE HOUR AVERAGE	.13 PPM	07/08/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	2	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.1 %	
TOTAL NUMBER OF HOURS	3497	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.06	0.16

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

TEXAS CITY

LOCATION CODE: 5170002 AGENCY CODE: F

START DATE: 10/12/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.08 PPM	11/12/83
SECOND HIGH ONE HOUR AVERAGE	.08 PPM	10/28/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	1481	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.08

SULFUR DIOXIDE (PUL FL) SUMMARY

TEXAS CITY

LOCATION CODE: 5170002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

HIGH ONE HOUR AVERAGE	.29 PPM	DATE 03/01/83
SECOND HIGH ONE HOUR AVERAGE	.25 PPM	02/08/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
TOTAL NUMBER OF HOURS	5723	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.29

HIGH 24-HOUR AVERAGE	.10 PPM	DATE 02/08/83
SECOND HIGH 24-HOUR AVERAGE	.06 PPM	10/20/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.00 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	1	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	.0 %	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	0	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	.0 %	
TOTAL NUMBER OF 24-HOUR AVERAGES	230	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.10

HIGH THREE HOUR RUNNING AVERAGE	.22 PPM	DATE 02/08/83
SECOND HIGH THREE HOUR RUNNING AVERAGE NONOVERLAPPING	.19 PPM	02/08/83
ARITHMETIC MEAN OF THREE HOUR RUNNING AVERAGES	.01 PPM	
STANDARD DEVIATION OF THREE HOUR RUNNING AVERAGES	.01 PPM	
TOTAL NUMBER OF THREE HOUR RUNNING AVERAGES	5224	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.22

RESULTANT WIND SPEED SUMMARY

TEXAS CITY

LOCATION CODE: 5170002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	0.95	1.50	3.29	2.06	0.47	0.01	8.31
NNE	0.90	2.30	2.37	0.49	0.04	0.00	6.11
NE	1.15	2.32	0.19	0.02	0.00	0.00	3.69
ENE	1.43	3.43	0.42	0.18	0.00	0.00	5.47
E	0.82	3.69	2.27	0.63	0.05	0.02	7.52
ESE	0.49	4.44	4.89	0.84	0.00	0.00	10.67
SE	0.28	3.62	5.65	1.16	0.00	0.00	10.73
SSE	0.43	1.73	4.96	2.50	0.01	0.00	9.64
S	0.35	2.43	5.69	2.84	0.05	0.00	11.37
SSW	0.21	0.88	1.91	0.88	0.01	0.00	3.91
SW	0.45	1.65	1.37	0.52	0.07	0.00	4.07
WSW	0.43	1.61	0.64	0.15	0.04	0.00	2.89
W	0.94	1.08	0.49	0.12	0.00	0.00	2.64
WNW	1.01	1.13	0.74	0.26	0.01	0.01	3.19
NW	1.23	1.51	0.90	0.45	0.07	0.01	4.19
NNW	1.23	1.19	1.63	0.99	0.18	0.00	5.24
TOTALS	12.36	34.60	37.48	14.16	1.04	0.07	100.00

TOTAL NUMBER OF HOURS 7109

CAMS 11

CLUTE (FREEPORT)  
COMMERCE STREET AT COBB FIELD

REGION 7



OZONE (CHLUM)

SUMMARY

CLUTE(FREEPORT)

LOCATION CODE: 0950003 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 11/09/83

		DATE
HIGH ONE HOUR AVERAGE	.15 PPM	05/24/83
SECOND HIGH ONE HOUR AVERAGE	.14 PPM	05/24/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	8	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.1 %	
TOTAL NUMBER OF HOURS	5521	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.06	0.15

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

CLUTE(FREEPORT)

LOCATION CODE: 0950003 AGENCY CODE: F

START DATE: 11/10/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.07 PPM	12/25/83
SECOND HIGH ONE HOUR AVERAGE	.06 PPM	11/16/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	1114	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.07





RESULTANT WIND SPEED SUMMARY

CLUTE(FREEPORT)

LOCATION CODE: 0950003 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	1.86	3.28	2.44	0.60	0.00	0.00	8.20
NNE	2.02	3.53	2.15	0.16	0.03	0.00	7.90
NE	2.52	3.87	1.54	0.22	0.03	0.02	8.23
ENE	2.32	2.26	1.06	0.17	0.00	0.00	5.83
E	2.13	2.90	1.89	0.49	0.00	0.00	7.43
ESE	1.24	3.91	2.52	0.60	0.01	0.00	8.30
SE	0.67	3.19	4.27	0.73	0.02	0.00	8.90
SSE	0.27	3.87	4.50	1.66	0.00	0.00	10.32
S	0.14	1.55	4.63	1.95	0.00	0.00	8.29
SSW	0.07	0.99	3.54	1.11	0.12	0.00	5.85
SW	0.21	1.09	1.61	0.33	0.01	0.00	3.27
WSW	0.33	0.50	0.43	0.09	0.02	0.00	1.45
W	0.59	0.94	0.23	0.03	0.00	0.00	1.81
WNW	1.16	0.92	0.47	0.13	0.00	0.00	2.69
NW	1.55	1.62	0.87	0.33	0.01	0.00	4.40
NNW	1.86	1.91	2.22	0.43	0.03	0.00	6.47
TOTALS	19.07	36.42	34.44	9.12	0.32	0.02	100.00

TOTAL NUMBER OF HOURS 8042

C A M S 15

CHANNELVIEW  
ALICE B. JOHNSON JR. HIGH SCHOOL

REGION 7



OZONE (CHLUM)

SUMMARY

CHANNELVIEW

LOCATION CODE: 2330026 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 09/30/83

		DATE
HIGH ONE HOUR AVERAGE	.11 PPM	03/08/83
SECOND HIGH ONE HOUR AVERAGE	.11 PPM	05/22/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	5372	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.11

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

CHANNELVIEW

LOCATION CODE: 2330026 AGENCY CODE: F

START DATE: 10/31/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.09 PPM 12/14/83
SECOND HIGH ONE HOUR AVERAGE	.08 PPM 11/20/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM
NUMBER OF HOURS EXCEEDING 0.12 PPM	0
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %
TOTAL NUMBER OF HOURS	1251

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.09

CARBON MONOXIDE (NDIR) SUMMARY

CHANNELVIEW

LOCATION CODE: 2330026 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 10/31/83

		DATE
HIGH ONE HOUR AVERAGE	6.9 PPM	01/24/83
SECOND HIGH ONE HOUR AVERAGE	5.6 PPM	02/08/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.6 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.6 PPM	
NUMBER OF HOURS EXCEEDING 35 PPM	0	
PERCENT OF HOURS EXCEEDING 35 PPM	.0 %	
TOTAL NUMBER OF HOURS	5565	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.0	0.0	0.2	0.4	0.5	0.6	0.8	1.1	1.5	6.9

DATE

HIGH 3-HOUR RUNNING AVERAGE	3.1 PPM	08/26/83
SECOND HIGH 3-HOUR RUNNING AVERAGE	3.1 PPM	01/24/83
ARITHMETIC MEAN OF 3-HOUR RUNNING AVERAGES	.6 PPM	
STANDARD DEVIATION OF 3-HOUR RUNNING AVERAGES	.6 PPM	
TOTAL NUMBER OF 3-HOUR RUNNING AVERAGES	5537	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.0	0.1	0.2	0.3	0.5	0.6	0.8	1.0	1.4	3.1

SULFUR DIOXIDE (PUL FL) SUMMARY

CHANNELVIEW

LOCATION CODE: 2330026 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.04 PPM	11/20/83
SECOND HIGH ONE HOUR AVERAGE	.03 PPM	03/06/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.00 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.00 PPM	
TOTAL NUMBER OF HOURS	7207	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.04

		DATE
HIGH 24-HOUR AVERAGE	.01 PPM	08/08/83
SECOND HIGH 24-HOUR AVERAGE	.01 PPM	07/28/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.00 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.00 PPM	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	0	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	.0 %	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	0	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	.0 %	
TOTAL NUMBER OF 24-HOUR AVERAGES	312	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

		DATE
HIGH THREE HOUR RUNNING AVERAGE	.02 PPM	07/27/83
SECOND HIGH THREE HOUR RUNNING AVERAGE	.02 PPM	07/27/83
ARITHMETIC MEAN OF THREE HOUR RUNNING AVERAGES	.00 PPM	
STANDARD DEVIATION OF THREE HOUR RUNNING AVERAGES	.00 PPM	
TOTAL NUMBER OF THREE HOUR RUNNING AVERAGES	6624	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02





NITRIC OXIDE (CHLUM) SUMMARY

CHANNELVIEW

LOCATION CODE: 2330026 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.31 PPM 03/08/83
SECOND HIGH ONE HOUR AVERAGE	.30 PPM 03/08/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM
TOTAL NUMBER OF HOURS	7051

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.31

	DATE
HIGH 24-HOUR AVERAGE	.07 PPM 11/29/83
SECOND HIGH 24-HOUR AVERAGE	.06 PPM 01/14/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM
TOTAL NUMBER OF 24-HOUR AVERAGES	302

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.07

OXIDES OF NITROGEN (CL) SUMMARY

CHANNELVIEW

LOCATION CODE: 2330026 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.46 PPM	03/08/83
SECOND HIGH ONE HOUR AVERAGE	.43 PPM	03/08/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.03 PPM	
TOTAL NUMBER OF HOURS	5943	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.03	0.46

		DATE
HIGH 24-HOUR AVERAGE	.09 PPM	11/29/83
SECOND HIGH 24-HOUR AVERAGE	.08 PPM	01/14/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	297	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.09

RESULTANT WIND SPEED SUMMARY

CHANNELVIEW

LOCATION CODE: 2330026 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	2.07	2.33	2.78	0.35	0.00	0.00	7.55
NNE	1.27	1.44	1.71	0.58	0.05	0.00	5.08
NE	1.23	1.63	1.67	0.24	0.02	0.00	4.81
ENE	1.71	2.46	0.54	0.01	0.00	0.00	4.74
E	2.16	4.05	1.14	0.04	0.00	0.00	7.40
ESE	2.39	4.71	1.18	0.05	0.00	0.00	8.35
SE	2.07	2.86	0.35	0.00	0.00	0.00	5.30
SSE	2.42	7.00	5.07	0.01	0.00	0.00	14.51
S	3.08	6.09	1.80	0.01	0.00	0.00	10.99
SSW	2.13	1.82	0.75	0.02	0.00	0.00	4.74
SW	2.33	2.23	0.38	0.02	0.00	0.00	4.98
WSW	1.44	1.74	0.90	0.14	0.00	0.00	4.24
W	1.46	1.13	0.50	0.20	0.01	0.00	3.31
WNW	1.40	1.13	0.70	0.17	0.00	0.00	3.41
NW	1.93	1.46	0.70	0.10	0.01	0.00	4.21
NNW	2.07	1.66	1.28	0.21	0.01	0.00	5.25
TOTALS	31.24	43.80	21.53	2.22	0.12	0.00	100.00

TOTAL NUMBER OF HOURS 6973

C A M S 1 8

BONNETTE JR. HIGH SCHOOL  
1102 WEST PASADENA BLVD.  
DEER PARK

REG:ION 17



OZONE (CHLUM)

SUMMARY

DEER PARK

LOCATION CODE: 1370003 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 11/09/83

		DATE
HIGH ONE HOUR AVERAGE	.28 PPM	05/22/83
SECOND HIGH ONE HOUR AVERAGE	.27 PPM	05/22/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.03 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	65	
PERCENT OF HOURS EXCEEDING 0.12 PPM	1.1 %	
TOTAL NUMBER OF HOURS	6096	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.28

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

DEER PARK

LOCATION CODE: 1370003 AGENCY CODE: F

START DATE: 11/09/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.10 PPM	11/20/83
SECOND HIGH ONE HOUR AVERAGE	.09 PPM	12/04/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	1045	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.04	0.04	0.10



SULFUR DIOXIDE (PUL FL) SUMMARY

DEER PARK

LOCATION CODE: 1370003 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.11 PPM	07/26/83
SECOND HIGH ONE HOUR AVERAGE	.10 PPM	03/28/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF HOURS	7289	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.11

		DATE
HIGH 24-HOUR AVERAGE	.02 PPM	09/23/83
SECOND HIGH 24-HOUR AVERAGE	.02 PPM	03/21/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.00 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.00 PPM	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	0	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	.0 %	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	0	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	.0 %	
TOTAL NUMBER OF 24-HOUR AVERAGES	315	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02

		DATE
HIGH THREE HOUR RUNNING AVERAGE	.06 PPM	02/29/83
SECOND HIGH THREE HOUR RUNNING AVERAGE NONOVERLAPPING	.05 PPM	03/28/83
ARITHMETIC MEAN OF THREE HOUR RUNNING AVERAGES	.00 PPM	
STANDARD DEVIATION OF THREE HOUR RUNNING AVERAGES	.01 PPM	
TOTAL NUMBER OF THREE HOUR RUNNING AVERAGES	6689	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.06

NITROGEN DIOXIDE(CHLUM) SUMMARY

DEER PARK

LOCATION CODE: 1370003 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.10 PPM 09/02/83
SECOND HIGH ONE HOUR AVERAGE	.10 PPM 04/15/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM
TOTAL NUMBER OF HOURS	6187

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.10

	DATE
HIGH 24-HOUR AVERAGE	.04 PPM 01/11/83
SECOND HIGH 24-HOUR AVERAGE	.03 PPM 12/27/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM
TOTAL NUMBER OF 24-HOUR AVERAGES	263

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.04

NITRIC OXIDE (CHLUM) SUMMARY

DEER PARK

LOCATION CODE: 1370003 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.48 PPM 01/11/83
SECOND HIGH ONE HOUR AVERAGE	.40 PPM 01/11/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM
TOTAL NUMBER OF HOURS	6146

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.48

	DATE
HIGH 24-HOUR AVERAGE	.14 PPM 01/11/83
SECOND HIGH 24-HOUR AVERAGE	.05 PPM 11/29/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.00 PPM
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM
TOTAL NUMBER OF 24-HOUR AVERAGES	262

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.14

OXIDES OF NITROGEN (CL) SUMMARY

DEER PARK

LOCATION CODE: 1370003 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.56 PPM	01/11/83
SECOND HIGH ONE HOUR AVERAGE	.45 PPM	01/11/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.03 PPM	
TOTAL NUMBER OF HOURS	6276	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.05	0.56

		DATE
HIGH 24-HOUR AVERAGE	.18 PPM	01/11/83
SECOND HIGH 24-HOUR AVERAGE	.08 PPM	08/20/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.02 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.02 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	268	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.18

RESULTANT WIND SPEED SUMMARY

DEER PARK

LOCATION CODE: 1370003 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	0.93	1.13	2.04	1.23	0.16	0.00	5.58
NNE	0.95	2.37	1.91	0.74	0.07	0.01	6.07
NE	1.23	2.63	1.70	0.22	0.10	0.02	5.93
ENE	1.44	2.85	1.60	0.35	0.00	0.01	6.27
E	1.49	3.39	2.51	0.36	0.00	0.00	7.75
ESE	1.69	3.41	3.67	0.59	0.00	0.00	9.58
SE	2.12	3.48	4.17	0.23	0.00	0.00	10.01
SSE	2.09	3.45	3.35	0.53	0.00	0.00	9.44
S	2.17	2.26	2.36	1.13	0.00	0.00	7.94
SSW	1.65	1.64	0.67	0.35	0.00	0.00	4.32
SW	1.69	1.78	0.61	0.13	0.01	0.00	4.23
WSW	1.30	1.19	0.56	0.15	0.00	0.00	3.22
W	1.04	0.95	0.43	0.15	0.01	0.00	2.59
WNW	0.78	1.29	0.99	0.69	0.03	0.01	3.80
NW	1.12	2.09	1.66	0.35	0.00	0.00	5.24
NNW	0.96	2.80	3.11	0.67	0.01	0.00	7.57
TOTALS	22.73	36.84	31.61	7.94	0.43	0.06	100.00

TOTAL NUMBER OF HOURS 7668



CAMES 20

SEABROOK  
HOUSTON, SOUTHEAST

REGION 7





OZONE (CHLUM)                      SUMMARY  
 SEABROOK (HOUSTON SE)  
 LOCATION CODE: 4715001 AGENCY CODE: F  
 START DATE: 01/01/83 END DATE: 11/09/83

	DATE
HIGH ONE HOUR AVERAGE	.25 PPM 08/30/83
SECOND HIGH ONE HOUR AVERAGE	.25 PPM 08/31/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.04 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.03 PPM
NUMBER OF HOURS EXCEEDING 0.12 PPM	49
PERCENT OF HOURS EXCEEDING 0.12 PPM	.9 %
TOTAL NUMBER OF HOURS	5714

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07	0.25

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

SEABROOK (HOUSTON SE)

LOCATION CODE: 4715001 AGENCY CODE: F

START DATE: 11/09/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.08 PPM 11/12/83
SECOND HIGH ONE HOUR AVERAGE	.08 PPM 12/15/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM
NUMBER OF HOURS EXCEEDING 0.12 PPM	0
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %
TOTAL NUMBER OF HOURS	1122

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.08



NITROGEN DIOXIDE(CHLUM) SUMMARY

SEABROOK (HOUSTON SE)

LOCATION CODE: 4715001 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/22/83

		DATE
HIGH ONE HOUR AVERAGE	.10 PPM	03/23/83
SECOND HIGH ONE HOUR AVERAGE	.06 PPM	01/11/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF HOURS	6499	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	50	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.10

		DATE
HIGH 24-HOUR AVERAGE	.04 PPM	01/11/83
SECOND HIGH 24-HOUR AVERAGE	.02 PPM	12/15/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.00 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	282	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.04



OXIDES OF NITROGEN (CL) SUMMARY

SEABROOK (HOUSTON SE)

LOCATION CODE: 4715001 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/22/83

		DATE
HIGH ONE HOUR AVERAGE	.30 PPM	01/11/83
SECOND HIGH ONE HOUR AVERAGE	.30 PPM	01/11/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
TOTAL NUMBER OF HOURS	6680	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.30

		DATE
HIGH 24-HOUR AVERAGE	.14 PPM	01/11/83
SECOND HIGH 24-HOUR AVERAGE	.06 PPM	01/23/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	290	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.14

RESULTANT WIND SPEED SUMMARY

SEABROOK (HOUSTON SE)

LOCATION CODE: 4715001 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	1.30	2.22	3.18	1.21	0.14	0.00	8.07
NNE	0.79	2.48	2.08	0.19	0.00	0.00	5.54
NE	0.43	1.95	1.10	0.22	0.00	0.00	3.71
ENE	0.45	2.17	2.51	0.52	0.01	0.00	5.66
E	0.27	3.41	3.18	0.45	0.02	0.00	7.35
ESE	0.43	3.78	3.83	0.32	0.00	0.00	8.38
SE	0.32	4.33	6.65	0.42	0.00	0.00	11.72
SSE	0.61	2.69	4.45	0.82	0.01	0.00	8.61
S	1.04	3.55	4.49	2.13	0.09	0.00	11.31
SSW	1.16	1.98	1.15	0.28	0.00	0.00	4.58
SW	1.04	1.56	0.32	0.11	0.00	0.00	3.03
WSW	0.60	1.02	0.39	0.07	0.00	0.00	2.10
W	0.79	1.04	0.53	0.09	0.00	0.00	2.46
WNW	0.99	1.25	0.87	0.35	0.07	0.03	3.59
NW	1.47	1.47	1.77	1.17	0.11	0.01	6.01
NNW	1.38	1.82	2.58	1.16	0.01	0.00	7.46
TOTALS	13.60	36.80	39.14	9.58	0.49	0.04	100.00

TOTAL NUMBER OF HOURS 8075





C A M S 2 2

HOUSTON, MANCHESTER  
7935½ ADRIEN

REG:ION 7





RESULTANT WIND SPEED SUMMARY

HOUSTON-MANCHESTER

LOCATION CODE: 2560059 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	2.43	5.19	1.82	0.01	0.00	0.00	9.46
NNE	1.65	4.15	2.58	0.20	0.00	0.00	8.59
NE	1.02	3.12	1.17	0.09	0.00	0.00	5.42
ENE	0.69	2.09	0.97	0.12	0.00	0.00	3.88
E	0.58	1.79	1.71	0.20	0.00	0.00	4.30
ESE	0.86	2.89	2.33	0.06	0.00	0.00	6.16
SE	2.16	5.96	1.82	0.03	0.00	0.00	9.99
SSE	3.71	6.84	1.65	0.01	0.00	0.00	12.24
S	2.78	4.29	1.06	0.00	0.00	0.00	8.14
SSW	2.33	2.30	0.74	0.00	0.00	0.00	5.39
SW	3.05	1.13	0.21	0.00	0.00	0.00	4.40
WSW	2.35	1.08	0.35	0.00	0.00	0.00	3.79
W	1.56	0.89	0.17	0.01	0.00	0.00	2.64
WNW	1.47	1.40	0.61	0.04	0.00	0.00	3.54
NW	1.53	2.46	1.54	0.01	0.00	0.00	5.56
NNW	2.07	3.23	0.85	0.00	0.00	0.00	6.16
TOTALS	30.33	48.89	19.69	0.82	0.00	0.00	100.00

TOTAL NUMBER OF HOURS 6454

C A M S

24

BAYTOWN  
MCELROY PARK  
DECKER LANE

REGION

7





RESULTANT WIND SPEED SUMMARY

BAYTOWN

LOCATION CODE: 0320004 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	2.61	2.73	2.52	0.48	0.00	0.00	8.39
NNE	3.99	4.22	1.32	0.13	0.00	0.00	11.67
NE	6.04	3.02	0.16	0.00	0.00	0.00	9.24
ENE	4.57	2.06	0.31	0.03	0.00	0.00	6.99
E	3.51	2.69	0.14	0.05	0.00	0.00	6.39
ESE	2.54	2.88	0.11	0.00	0.00	0.00	5.55
SE	0.93	6.16	2.41	0.09	0.00	0.00	9.60
SSE	0.41	3.17	8.90	2.40	0.01	0.00	14.91
S	0.32	1.13	3.23	1.87	0.01	0.00	6.63
SSW	0.42	1.26	1.54	0.42	0.01	0.00	3.67
SW	0.26	2.86	1.07	0.10	0.00	0.00	4.30
WSW	0.74	1.61	0.26	0.01	0.00	0.00	2.62
W	0.71	0.78	0.24	0.05	0.00	0.00	1.79
WNW	0.71	0.89	0.35	0.05	0.00	0.00	2.01
NW	0.84	1.06	0.44	0.10	0.00	0.00	2.45
NNW	1.30	1.18	0.37	0.19	0.00	0.00	3.54
TOTALS	31.96	37.80	23.99	6.01	0.03	0.00	100.00

TOTAL NUMBER OF HOURS 7692



C A M S 2 6

DYESS PARK  
16822 KITZMAN  
NORTHWEST HARRIS COUNTY

REGION 17



OZONE (CHLUM)

SUMMARY

N W HARRIS CNTY

LOCATION CODE: 2330029 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 08/14/83

		DATE
HIGH ONE HOUR AVERAGE	.21 PPM	05/22/83
SECOND HIGH ONE HOUR AVERAGE	.21 PPM	05/22/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.04 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	47	
PERCENT OF HOURS EXCEEDING 0.12 PPM	1.0 %	
TOTAL NUMBER OF HOURS	4880	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.02	0.02	0.03	0.04	0.04	0.05	0.06	0.07	0.21

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

N W HARRIS CNTY

LOCATION CODE: 2330029 AGENCY CODE: F

START DATE: 03/25/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.19 PPM	10/07/83
SECOND HIGH ONE HOUR AVERAGE	.18 PPM	10/07/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	14	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.5 %	
TOTAL NUMBER OF HOURS	2723	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.06	0.19

RESULTANT WIND SPEED SUMMARY

N W HARRIS CNTY

LOCATION CODE: 2330029 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	2.12	2.41	2.97	1.97	0.24	0.00	9.74
NNE	3.00	2.40	1.96	0.46	0.02	0.00	7.86
NE	3.48	2.78	1.16	0.11	0.02	0.03	7.61
ENE	3.73	3.16	0.88	0.02	0.00	0.00	7.85
E	2.90	3.56	1.59	0.13	0.00	0.00	8.19
ESE	1.86	3.14	1.70	0.23	0.00	0.00	6.94
SE	1.51	3.00	2.24	0.85	0.01	0.00	7.63
SSE	1.23	2.68	3.42	1.22	0.17	0.00	8.75
S	1.26	2.29	2.96	1.62	0.03	0.00	8.18
SSW	1.13	1.89	1.65	0.68	0.05	0.01	5.43
SW	0.98	1.35	0.90	0.28	0.03	0.01	3.58
WSW	1.04	1.02	0.49	0.09	0.02	0.00	2.68
W	0.97	0.82	0.40	0.09	0.00	0.00	2.29
WNW	1.01	0.95	0.63	0.09	0.04	0.00	2.73
NW	1.28	1.39	0.78	0.39	0.21	0.03	4.10
NNW	1.41	1.59	1.53	1.02	0.23	0.02	5.82
TOTALS	29.03	34.49	25.32	9.33	1.14	0.11	100.00

TOTAL NUMBER OF HOURS 3407



C A M S 31

PASADENA  
702 WEST HARRIS

REG:ION 7





SULFUR DIOXIDE (PUL FL) SUMMARY

PASADENA

LOCATION CODE: 4060005 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/28/83

		DATE
HIGH ONE HOUR AVERAGE	.24 PPM	11/23/83
SECOND HIGH ONE HOUR AVERAGE	.17 PPM	09/30/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF HOURS	6871	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.24

		DATE
HIGH 24-HOUR AVERAGE	.03 PPM	03/28/83
SECOND HIGH 24-HOUR AVERAGE	.03 PPM	02/27/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.00 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	0	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	.0 %	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	0	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	.0 %	
TOTAL NUMBER OF 24-HOUR AVERAGES	299	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.03

		DATE
HIGH THREE HOUR RUNNING AVERAGE	.14 PPM	11/23/83
SECOND HIGH THREE HOUR RUNNING AVERAGE NONOVERLAPPING	.10 PPM	01/03/83
ARITHMETIC MEAN OF THREE HOUR RUNNING AVERAGES	.01 PPM	
STANDARD DEVIATION OF THREE HOUR RUNNING AVERAGES	.01 PPM	
TOTAL NUMBER OF THREE HOUR RUNNING AVERAGES	6354	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.14

RESULTANT WIND SPEED SUMMARY

PASADENA

LOCATION CODE: 4060005 AGENCY CODE: F

START DATE: 01/14/83 END DATE: 12/28/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	1.37	4.33	4.85	0.69	0.03	0.00	11.28
NNE	1.79	2.74	1.26	0.08	0.00	0.00	5.88
NE	3.06	3.55	1.21	0.00	0.00	0.00	7.83
ENE	2.53	2.92	0.77	0.03	0.00	0.00	6.27
E	2.72	2.96	0.84	0.01	0.00	0.00	6.54
ESE	2.14	3.16	1.35	0.01	0.00	0.00	6.68
SE	1.81	4.21	4.24	0.38	0.00	0.00	10.65
SSE	2.40	3.77	3.18	0.38	0.01	0.00	9.76
S	2.48	4.46	3.95	0.94	0.00	0.00	11.86
SSW	1.72	2.01	1.97	0.25	0.00	0.00	5.97
SW	1.35	1.59	0.60	0.05	0.00	0.00	3.60
WSW	0.77	0.89	0.21	0.00	0.03	0.00	1.92
W	0.64	0.64	0.27	0.00	0.00	0.00	1.55
WNW	0.37	0.94	0.79	0.15	0.00	0.00	2.26
NW	0.49	0.86	1.35	0.64	0.00	0.00	3.35
NNW	0.74	1.37	1.65	0.06	0.00	0.00	3.84
TOTALS	26.44	40.45	28.59	3.73	0.08	0.00	100.00

TOTAL NUMBER OF HOURS 5910

C A M S S

DALLAS, NORTH  
12532 NUESTRA  
EWELL WALKER MIDDLE SCHOOL

REG:ION



OZONE (CHLUM)

SUMMARY

DALLAS, NORTH

LOCATION CODE: 1310045 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 04/28/83

HIGH ONE HOUR AVERAGE	.09 PPM	DATE	04/10/83
SECOND HIGH ONE HOUR AVERAGE	.08 PPM		03/29/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM		
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM		
NUMBER OF HOURS EXCEEDING 0.12 PPM	0		
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %		
TOTAL NUMBER OF HOURS	2506		

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.09

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

DALLAS, NORTH

LOCATION CODE: 1310045 AGENCY CODE: F

START DATE: 04/29/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.15 PPM	06/29/83
SECOND HIGH ONE HOUR AVERAGE	.15 PPM	06/29/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	17	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.3 %	
TOTAL NUMBER OF HOURS	5170	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.06	0.15

SULFUR DIOXIDE (PUL FL) SUMMARY

DALLAS, NORTH

LOCATION CODE: 1310045 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.05 PPM 10/15/83
SECOND HIGH ONE HOUR AVERAGE	.04 PPM 09/12/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.00 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM
TOTAL NUMBER OF HOURS	7642

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.05

	DATE
HIGH 24-HOUR AVERAGE	.01 PPM 10/01/83
SECOND HIGH 24-HOUR AVERAGE	.01 PPM 09/30/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.00 PPM
STANDARD DEVIATION OF 24-HOUR AVERAGES	.00 PPM
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	0
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	.0 %
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	0
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	.0 %
TOTAL NUMBER OF 24-HOUR AVERAGES	333

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01

	DATE
HIGH THREE HOUR RUNNING AVERAGE	.03 PPM 09/12/83
SECOND HIGH THREE HOUR RUNNING AVERAGE	.03 PPM 10/15/83
ARITHMETIC MEAN OF THREE HOUR RUNNING AVERAGES	.00 PPM
STANDARD DEVIATION OF THREE HOUR RUNNING AVERAGES	.00 PPM
TOTAL NUMBER OF THREE HOUR RUNNING AVERAGES	7069

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03

NITROGEN DIOXIDE(CHLUM) SUMMARY

DALLAS, NORTH

LOCATION CODE: 1310045 AGENCY CODE: F

START DATE: 01/03/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.09 PPM	02/23/83
SECOND HIGH ONE HOUR AVERAGE	.08 PPM	02/23/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF HOURS	7524	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.09

		DATE
HIGH 24-HOUR AVERAGE	.04 PPM	10/27/83
SECOND HIGH 24-HOUR AVERAGE	.03 PPM	12/30/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	329	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.04



NITRIC OXIDE (CHLUM) SUMMARY

DALLAS, NORTH

LOCATION CODE: 1310045 AGENCY CODE: F

START DATE: 01/03/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.52 PPM	10/26/83
SECOND HIGH ONE HOUR AVERAGE	.44 PPM	10/27/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.03 PPM	
TOTAL NUMBER OF HOURS	7269	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.52

		DATE
HIGH 24-HOUR AVERAGE	.13 PPM	10/27/83
SECOND HIGH 24-HOUR AVERAGE	.11 PPM	01/15/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.02 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	318	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.13

OXIDES OF NITROGEN (CL) SUMMARY

DALLAS, NORTH

LOCATION CODE: 1310045 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.62 PPM	10/26/83
SECOND HIGH ONE HOUR AVERAGE	.60 PPM	10/26/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.04 PPM	
TOTAL NUMBER OF HOURS	7507	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.06	0.62

		DATE
HIGH 24-HOUR AVERAGE	.18 PPM	10/27/83
SECOND HIGH 24-HOUR AVERAGE	.14 PPM	01/16/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.02 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.02 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	328	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.05	0.18

RESULTANT WIND SPEED SUMMARY

DALLAS, NORTH

LOCATION CODE: 1310045 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	0.66	2.42	4.27	0.91	0.00	0.00	8.27
NNE	0.99	2.42	1.18	0.17	0.00	0.00	4.76
NE	2.11	1.65	0.09	0.00	0.00	0.00	3.86
ENE	2.41	1.05	0.00	0.00	0.00	0.00	3.46
E	2.37	1.34	0.03	0.00	0.00	0.00	3.75
ESE	2.26	0.73	0.01	0.01	0.00	0.00	3.01
SE	2.55	1.20	0.16	0.00	0.00	0.00	3.92
SSE	3.27	1.72	0.22	0.00	0.00	0.00	5.22
S	4.32	5.37	1.29	0.09	0.00	0.00	11.09
SSW	3.13	7.79	4.20	0.64	0.00	0.00	15.76
SW	2.23	4.96	5.22	2.13	0.03	0.00	14.59
WSW	1.69	2.22	1.13	0.33	0.00	0.00	5.39
W	1.45	0.97	0.20	0.02	0.03	0.00	2.69
WNW	0.82	0.71	0.66	0.30	0.01	0.00	2.51
NW	0.82	0.93	1.77	0.82	0.03	0.00	4.39
NNW	0.67	1.93	2.33	1.46	0.09	0.00	6.49
TOTALS	31.81	37.51	22.81	6.92	0.20	0.00	100.00

TOTAL NUMBER OF HOURS 8618



CAMS 13

FORT WORTH, NORTHWEST  
MEACHAM FIELD  
ROSS AVENUE BETWEEN LONG AVENUE AND 34TH

REGION 8



OZONE (CHLUM) SUMMARY

FT WORTH, NORTHWEST

LOCATION CODE: 1830002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 04/27/83

		DATE
HIGH ONE HOUR AVERAGE	.08 PPM	02/18/83
SECOND HIGH ONE HOUR AVERAGE	.08 PPM	02/18/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	2561	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.08

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

FT WORTH, NORTHWEST

LOCATION CODE: 1980002 AGENCY CODE: F

START DATE: 04/27/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.17 PPM 07/08/83
SECOND HIGH ONE HOUR AVERAGE	.17 PPM 07/08/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM
NUMBER OF HOURS EXCEEDING 0.12 PPM	5
PERCENT OF HOURS EXCEEDING 0.12 PPM	.1 %
TOTAL NUMBER OF HOURS	5092

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.06	0.17



CARBON MONOXIDE (NDIR) SUMMARY

FT WORTH, NORTHWEST

LOCATION CODE: 1880002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	8.2 PPM	10/27/83
SECOND HIGH ONE HOUR AVERAGE	7.6 PPM	11/29/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.5 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.6 PPM	
NUMBER OF HOURS EXCEEDING 35 PPM	0	
PERCENT OF HOURS EXCEEDING 35 PPM	.0 %	
TOTAL NUMBER OF HOURS	7415	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.0	0.0	0.1	0.3	0.4	0.4	0.6	0.7	1.0	8.2

DATE

HIGH 8-HOUR RUNNING AVERAGE	3.2 PPM	12/06/83
SECOND HIGH 8-HOUR RUNNING AVERAGE NONOVERLAPPING	3.0 PPM	10/27/83
ARITHMETIC MEAN OF 8-HOUR RUNNING AVERAGES	.4 PPM	
STANDARD DEVIATION OF 8-HOUR RUNNING AVERAGES	.4 PPM	
TOTAL NUMBER OF 8-HOUR RUNNING AVERAGES	7558	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.0	0.0	0.1	0.3	0.4	0.4	0.6	0.7	0.9	3.2

SULFUR DIOXIDE (PUL FL) SUMMARY

FT WORTH, NORTHWEST

LOCATION CODE: 1830002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.24 PPM	03/17/83
SECOND HIGH ONE HOUR AVERAGE	.23 PPM	01/10/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.00 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF HOURS	7468	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.24

		DATE
HIGH 24-HOUR AVERAGE	.05 PPM	04/02/83
SECOND HIGH 24-HOUR AVERAGE	.04 PPM	04/23/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.00 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	0	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	.0 %	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	0	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	.0 %	
TOTAL NUMBER OF 24-HOUR AVERAGES	316	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05

		DATE
HIGH THREE HOUR RUNNING AVERAGE	.15 PPM	04/23/83
SECOND HIGH THREE HOUR RUNNING AVERAGE	.14 PPM	03/17/83
ARITHMETIC MEAN OF THREE HOUR RUNNING AVERAGES	.00 PPM	
STANDARD DEVIATION OF THREE HOUR RUNNING AVERAGES	.01 PPM	
TOTAL NUMBER OF THREE HOUR RUNNING AVERAGES	6864	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.15

NITROGEN DIOXIDE (CHLUM) SUMMARY

FT WORTH, NORTHWEST

LOCATION CODE: 1990002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.10 PPM	12/08/83
SECOND HIGH ONE HOUR AVERAGE	.09 PPM	09/03/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF HOURS	6824	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.10

		DATE
HIGH 24-HOUR AVERAGE	.04 PPM	12/17/83
SECOND HIGH 24-HOUR AVERAGE	.04 PPM	09/22/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	291	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.04

NITRIC OXIDE (CHLUM) SUMMARY

FT WORTH, NORTHWEST

LOCATION CODE: 1880002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.26 PPM	12/08/83
SECOND HIGH ONE HOUR AVERAGE	.26 PPM	12/06/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
TOTAL NUMBER OF HOURS	6942	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.03	0.26

		DATE
HIGH 24-HOUR AVERAGE	.07 PPM	12/17/83
SECOND HIGH 24-HOUR AVERAGE	.06 PPM	12/08/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	296	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.07

OXIDES OF NITROGEN (CL) SUMMARY

F1 WORTH, NORTHWEST

LOCATION CODE: 1880002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.31 PPM	12/08/83
SECOND HIGH ONE HOUR AVERAGE	.31 PPM	12/06/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.03 PPM	
TOTAL NUMBER OF HOURS	6980	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.04	0.06	0.31

		DATE
HIGH 24-HOUR AVERAGE	.11 PPM	12/17/83
SECOND HIGH 24-HOUR AVERAGE	.09 PPM	12/08/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.02 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.02 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	297	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.05	0.11

RESULTANT WIND SPEED SUMMARY

FT WORTH, NORTHWEST

LOCATION CODE: 1880002 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	0.50	1.31	1.68	1.59	0.39	0.03	5.53
NNE	0.63	1.44	1.30	0.33	0.01	0.00	4.23
NE	0.62	1.58	0.84	0.09	0.00	0.00	3.15
ENE	0.84	1.99	0.58	0.06	0.00	0.00	3.48
E	1.14	2.59	0.45	0.00	0.00	0.00	4.19
ESE	1.35	3.10	0.54	0.00	0.00	0.00	5.00
SE	1.58	5.63	2.29	0.10	0.00	0.00	9.60
SSE	1.39	5.42	7.23	1.19	0.02	0.00	15.27
S	1.25	4.39	7.23	2.63	0.08	0.00	16.10
SSW	0.99	2.72	3.18	1.33	0.00	0.00	8.24
SW	0.80	1.33	0.69	0.37	0.00	0.00	3.21
WSW	0.45	0.55	0.27	0.18	0.03	0.01	1.51
W	0.60	0.31	0.26	0.45	0.07	0.00	1.70
WNW	0.85	0.91	0.70	0.61	0.18	0.01	3.28
NW	1.16	1.26	1.96	1.81	0.67	0.16	7.04
NNW	0.90	1.16	2.48	2.11	1.19	0.19	8.05
TOTALS	15.12	36.31	32.27	12.91	2.65	0.42	100.00

TOTAL NUMBER OF HOURS 8316

CAMS 16

FORT WORTH, DOWNTOWN  
100 NORTH PECAN

REGION 8





CARBON MONOXIDE (NDIR) SUMMARY

FORT WORTH, DOWNTOWN

LOCATION CODE: 1880003 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	11.2 PPM 07/29/83
SECOND HIGH ONE HOUR AVERAGE	9.8 PPM 11/29/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.9 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	1.1 PPM
NUMBER OF HOURS EXCEEDING 35 PPM	0
PERCENT OF HOURS EXCEEDING 35 PPM	.0 %
TOTAL NUMBER OF HOURS	7084

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.0	0.0	0.2	0.4	0.6	0.9	1.1	1.5	2.2	11.2

	DATE
HIGH 8-HOUR RUNNING AVERAGE	5.2 PPM 12/06/83
SECOND HIGH 8-HOUR RUNNING AVERAGE NONOVERLAPPING	4.8 PPM 11/11/83
ARITHMETIC MEAN OF 8-HOUR RUNNING AVERAGES	.8 PPM
STANDARD DEVIATION OF 8-HOUR RUNNING AVERAGES	.8 PPM
TOTAL NUMBER OF 8-HOUR RUNNING AVERAGES	7170

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.0	0.1	0.3	0.5	0.7	0.9	1.1	1.4	2.0	5.2

RESULTANT WIND SPEED SUMMARY

FORT WORTH, DOWNTOWN

LOCATION CODE: 1880003 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	1.00	1.81	0.70	0.00	0.00	0.00	3.52
NNE	0.99	1.45	0.30	0.00	0.00	0.00	2.74
NE	0.81	1.29	0.53	0.08	0.00	0.00	2.73
ENE	1.31	1.55	0.36	0.01	0.00	0.00	3.24
E	1.98	3.23	0.42	0.00	0.00	0.00	5.64
ESE	2.30	6.57	1.56	0.02	0.00	0.00	10.47
SE	1.94	13.63	2.78	0.02	0.00	0.00	18.39
SSE	1.21	8.65	3.96	0.08	0.00	0.00	13.92
S	0.31	5.29	1.26	0.00	0.00	0.00	7.37
SSW	0.37	1.65	0.15	0.00	0.00	0.00	2.68
SW	0.90	1.75	0.23	0.00	0.00	0.00	2.89
WSW	0.95	1.31	0.16	0.03	0.00	0.00	2.47
W	2.24	1.71	0.92	0.05	0.00	0.00	4.94
WNW	1.63	1.54	0.43	0.00	0.00	0.00	3.66
NW	1.49	3.07	1.16	0.22	0.00	0.00	5.95
NNW	0.92	3.27	3.85	0.35	0.00	0.00	8.40
TOTALS	21.47	57.85	19.85	0.90	0.00	0.00	100.00

TOTAL NUMBER OF HOURS 7971

CAMS 17

NORTH TARRANT COUNTY  
KELLER

REGION 8



OZONE (CHLUM) SUMMARY

NORTH TARRANT CO.(KELLER)

LOCATION CODE: 5070003 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 07/12/83

		DATE
HIGH ONE HOUR AVERAGE	.15 PPM	07/08/83
SECOND HIGH ONE HOUR AVERAGE	.14 PPM	07/08/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.04 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	4	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.1 %	
TOTAL NUMBER OF HOURS	3276	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.15

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

NORTH TARRANT CO.(KELLER)

LOCATION CODE: 5070003 AGENCY CODE: F

START DATE: 07/12/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.16 PPM	08/31/83
SECOND HIGH ONE HOUR AVERAGE	.15 PPM	08/31/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	6	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.2	
TOTAL NUMBER OF HOURS	3700	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.06	0.16

RESULTANT WIND SPEED SUMMARY

NORTH TARRANT CO.(KELLER)

LOCATION CODE: 5070003 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	0.60	3.55	2.14	0.14	0.00	0.00	6.44
NNE	0.59	2.62	1.47	0.02	0.00	0.00	4.71
NE	0.42	1.96	0.91	0.14	0.00	0.00	3.44
ENE	0.43	1.93	1.17	0.20	0.01	0.00	3.77
E	0.99	2.98	1.53	0.16	0.01	0.00	5.74
ESE	0.30	4.00	1.25	0.12	0.00	0.00	6.18
SE	1.20	4.52	0.64	0.00	0.00	0.00	6.36
SSE	0.68	7.69	4.50	0.78	0.01	0.00	13.69
S	0.52	6.12	10.48	4.50	0.49	0.00	22.14
SSW	0.37	2.99	3.22	2.01	0.11	0.00	8.73
SW	0.33	1.55	0.63	0.03	0.00	0.00	2.55
WSW	0.24	0.63	0.36	0.00	0.00	0.00	1.24
W	0.29	0.45	0.46	0.27	0.02	0.00	1.51
WNW	0.31	0.56	0.83	0.64	0.05	0.00	2.41
NW	0.27	1.03	1.71	0.67	0.07	0.00	3.77
NNW	0.37	2.26	3.15	1.20	0.09	0.00	7.07
TOTALS	8.48	44.90	34.59	10.95	0.89	0.00	100.00

TOTAL NUMBER OF HOURS 7741





CAMS 7

SAN ANTONIO, NORTH  
DELLVIEW PARK  
522 PILGRIM STREET

REGION 9



OZONE (CHLUM)

SUMMARY

SAN ANTONIO, NORTH

LOCATION CODE: 4570036 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 04/05/83

		DATE
HIGH ONE HOUR AVERAGE	.09 PPM	02/17/83
SECOND HIGH ONE HOUR AVERAGE	.08 PPM	02/17/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	2015	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.09

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

SAN ANTONIO, NORTH

LOCATION CODE: 4570036 AGENCY CODE: F

START DATE: 04/05/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.13 PPM	09/03/83
SECOND HIGH ONE HOUR AVERAGE	.12 PPM	09/03/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	1	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.02	
TOTAL NUMBER OF HOURS	5722	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.06	0.13

CARBON MONOXIDE (NDIR) SUMMARY

SAN ANTONIO, NORTH

LOCATION CODE: 4570036 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	14.2 PPM	11/17/83
SECOND HIGH ONE HOUR AVERAGE	11.2 PPM	11/16/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.7 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.9 PPM	
NUMBER OF HOURS EXCEEDING 35 PPM	0	
PERCENT OF HOURS EXCEEDING 35 PPM	.0 %	
TOTAL NUMBER OF HOURS	7738	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.0	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.4	14.2

DATE

HIGH 8-HOUR RUNNING AVERAGE	5.6 PPM	11/12/83
SECOND HIGH 3-HOUR RUNNING AVERAGE NONOVERLAPPING	5.1 PPM	12/07/83
ARITHMETIC MEAN OF 8-HOUR RUNNING AVERAGES	.7 PPM	
STANDARD DEVIATION OF 8-HOUR RUNNING AVERAGES	.6 PPM	
TOTAL NUMBER OF 8-HOUR RUNNING AVERAGES	7944	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.4	5.6

SULFUR DIOXIDE (PUL FL) SUMMARY

SAN ANTONIO, NORTH

LOCATION CODE: 4570036 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.06 PPM 01/30/83
SECOND HIGH ONE HOUR AVERAGE	.06 PPM 01/31/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.00 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.00 PPM
TOTAL NUMBER OF HOURS	7678

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.06

	DATE
HIGH 24-HOUR AVERAGE	.01 PPM 12/09/83
SECOND HIGH 24-HOUR AVERAGE	.01 PPM 12/08/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.00 PPM
STANDARD DEVIATION OF 24-HOUR AVERAGES	.00 PPM
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	0
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	.0 %
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	0
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	.0 %
TOTAL NUMBER OF 24-HOUR AVERAGES	337

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01

	DATE
HIGH THREE HOUR RUNNING AVERAGE	.03 PPM 01/30/83
SECOND HIGH THREE HOUR RUNNING AVERAGE	.03 PPM 01/31/83
ARITHMETIC MEAN OF THREE HOUR RUNNING AVERAGES	.00 PPM
STANDARD DEVIATION OF THREE HOUR RUNNING AVERAGES	.00 PPM
TOTAL NUMBER OF THREE HOUR RUNNING AVERAGES	6973

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03

NITROGEN DIOXIDE(CHLUM) SUMMARY

SAN ANTONIO, NORTH

LOCATION CODE: 4570036 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.07 PPM	02/23/83
SECOND HIGH ONE HOUR AVERAGE	.07 PPM	04/16/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF HOURS	7454	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.07

		DATE
HIGH 24-HOUR AVERAGE	.03 PPM	12/31/83
SECOND HIGH 24-HOUR AVERAGE	.03 PPM	02/24/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	323	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03

NITRIC OXIDE (CHLUM) SUMMARY

SAN ANTONIO, NORTH

LOCATION CODE: 4570036 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

	PPM	DATE
HIGH ONE HOUR AVERAGE	.49 PPM	01/22/83
SECOND HIGH ONE HOUR AVERAGE	.47 PPM	12/07/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.04 PPM	
TOTAL NUMBER OF HOURS	7613	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.49

	PPM	DATE
HIGH 24-HOUR AVERAGE	.15 PPM	12/07/83
SECOND HIGH 24-HOUR AVERAGE	.10 PPM	11/28/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.02 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	331	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.15



OXIDES OF NITROGEN (CL) SUMMARY

SAN ANTONIO, NORTH

LOCATION CODE: 4570036 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.56 PPM	01/22/83
SECOND HIGH ONE HOUR AVERAGE	.52 PPM	01/22/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.05 PPM	
TOTAL NUMBER OF HOURS	7458	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.04	0.07	0.56

		DATE
HIGH 24-HOUR AVERAGE	.17 PPM	12/07/83
SECOND HIGH 24-HOUR AVERAGE	.12 PPM	12/08/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.02 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.03 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	324	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.06	0.17

RESULTANT WIND SPEED SUMMARY

SAN ANTONIO, NORTH

LOCATION CODE: 4570036 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	3.25	2.94	0.63	0.02	0.00	0.00	6.86
NNE	3.01	1.26	0.20	0.00	0.00	0.33	4.82
NE	2.68	0.67	0.02	0.00	0.00	0.04	3.42
ENE	2.75	1.57	0.17	0.00	0.00	0.00	4.50
E	2.80	3.54	0.61	0.00	0.00	0.00	6.96
ESE	3.05	4.20	1.33	0.04	0.00	0.00	8.63
SE	2.27	6.90	3.44	0.68	0.00	0.00	13.31
SSE	1.97	7.80	2.93	0.30	0.00	0.00	13.01
S	2.56	3.08	0.63	0.00	0.00	0.00	6.29
SSW	3.22	1.55	0.23	0.00	0.00	0.00	5.01
SW	2.71	1.43	0.15	0.00	0.00	0.00	4.30
WSW	1.93	0.91	0.29	0.00	0.00	0.00	3.14
W	2.48	0.44	0.06	0.00	0.00	0.00	2.99
WNW	2.46	0.65	0.17	0.01	0.00	0.00	3.29
NW	2.93	1.40	0.20	0.02	0.00	0.00	4.57
NNW	3.98	2.82	0.31	0.00	0.00	0.00	7.11
TOTALS	44.12	41.23	11.45	1.09	0.00	0.38	100.00

TOTAL NUMBER OF HOURS 8614

C A M S 23

SAN ANTONIO, NORTHWEST #2  
6655 BLUEBIRD LANE

REGION 9



OZONE (CHLUM)

SUMMARY

SAN ANTONIO, NORTHWEST #2

LOCATION CODE: 4570032 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 04/04/83

		DATE
HIGH ONE HOUR AVERAGE	.08 PPM	02/17/83
SECOND HIGH ONE HOUR AVERAGE	.08 PPM	02/17/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 1	
TOTAL NUMBER OF HOURS	1864	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.08

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

SAN ANTONIO, NORTHWEST #2

LOCATION CODE: 4570032 AGENCY CODE: F

START DATE: 04/06/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.14 PPM	09/03/83
SECOND HIGH ONE HOUR AVERAGE	.13 PPM	09/03/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	5	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.1 %	
TOTAL NUMBER OF HOURS	5626	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.06	0.14

RESULTANT WIND SPEED SUMMARY

SAN ANTONIO, NORTHWEST #2

LOCATION CODE: 4570032 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	5.23	2.87	2.06	0.10	0.00	0.00	10.27
NNE	4.91	2.77	1.33	0.02	0.00	0.00	9.04
NE	3.64	2.62	0.16	0.00	0.00	0.00	6.43
ENE	2.98	1.99	0.20	0.00	0.00	0.00	5.18
E	2.48	2.49	0.00	0.00	0.00	0.00	4.98
ESE	2.99	4.17	0.17	0.00	0.00	0.00	7.34
SE	4.43	8.88	1.30	0.00	0.00	0.00	14.61
SSE	4.99	7.27	0.21	0.00	0.00	0.00	12.48
S	4.19	3.87	0.13	0.00	0.00	0.00	8.20
SSW	1.87	1.71	0.00	0.00	0.00	0.00	3.59
SW	1.26	0.63	0.01	0.00	0.00	0.00	1.91
WSW	1.08	0.78	0.12	0.03	0.00	0.00	2.02
W	1.02	0.41	0.11	0.00	0.00	0.00	1.55
WNW	1.09	0.42	0.20	0.05	0.00	0.00	1.78
NW	1.53	0.73	0.37	0.01	0.00	0.00	2.65
NNW	4.00	1.33	0.98	0.06	0.00	0.00	6.40
TOTALS	47.76	43.02	7.42	0.29	0.00	0.00	100.00

TOTAL NUMBER OF HOURS 8667





C A M S 27

SAN ANTONIO, DOWNTOWN (OLD POST OFFICE)  
6151 EAST HOUSTON

REGION 9



CARBON MONOXIDE (NDIR) SUMMARY

SAN ANTONIO, DOWNTOWN (CLD POST OFF)

LOCATION CODE: 4570046 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	14.5 PPM	12/03/83
SECOND HIGH ONE HOUR AVERAGE	14.0 PPM	01/24/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	1.2 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	1.4 PPM	
NUMBER OF HOURS EXCEEDING 35 PPM	0	
PERCENT OF HOURS EXCEEDING 35 PPM	.0 %	
TOTAL NUMBER OF HOURS	7867	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.0	0.2	0.4	0.7	0.9	1.2	1.5	2.0	2.8	14.5

DATE

HIGH 8-HOUR RUNNING AVERAGE	9.6 PPM	12/03/83
SECOND HIGH 8-HOUR RUNNING AVERAGE	9.1 PPM	11/12/83
ARITHMETIC MEAN OF 8-HOUR RUNNING AVERAGES	1.2 PPM	
STANDARD DEVIATION OF 8-HOUR RUNNING AVERAGES	1.0 PPM	
TOTAL NUMBER OF 8-HOUR RUNNING AVERAGES	8180	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.1	0.4	0.6	0.8	1.0	1.2	1.5	1.9	2.4	9.6



C A M S 2

BEAUMONT, DOWNTOWN  
LAMAR UNIVERSITY

REGION 10



OZONE (CHLUM) SUMMARY

BEAUMONT, DOWNTOWN(LAMAR)

LOCATION CODE: 0330009 AGENCY CODE: F

START DATE: 01/14/83 END DATE: 10/15/83

		DATE
HIGH ONE HOUR AVERAGE	.17 PPM	05/28/83
SECOND HIGH ONE HOUR AVERAGE	.16 PPM	05/28/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.04 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.03 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	9	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.4 %	
TOTAL NUMBER OF HOURS	2182	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.05	0.07	0.17

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

BEAUMONT, DOWNTOWN(LAMAR)

LOCATION CODE: 0330009 AGENCY CODE: F

START DATE: 10/20/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.12 PPM 12/04/83
SECOND HIGH ONE HOUR AVERAGE	.09 PPM 10/27/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM
NUMBER OF HOURS EXCEEDING 0.12 PPM	0
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 2
TOTAL NUMBER OF HOURS	1437

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALLES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.12



CARBON MONOXIDE (NDIR) SUMMARY

BEAUMONT, DOWNTOWN(LAMAR)

LOCATION CODE: 0330009 AGENCY CODE: F

START DATE: 01/11/83 END DATE: 12/11/83

		DATE
HIGH ONE HOUR AVERAGE	4.9 PPM	11/28/83
SECOND HIGH ONE HOUR AVERAGE	4.5 PPM	11/28/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.2 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.4 PPM	
NUMBER OF HOURS EXCEEDING 35 PPM	0	
PERCENT OF HOURS EXCEEDING 35 PPM	.0 %	
TOTAL NUMBER OF HOURS	5773	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.7	4.5

DATE

HIGH 8-HOUR RUNNING AVERAGE	3.3 PPM	11/15/83
SECOND HIGH 8-HOUR RUNNING AVERAGE NONOVERLAPPING	3.3 PPM	11/28/83
ARITHMETIC MEAN OF 8-HOUR RUNNING AVERAGES	.2 PPM	
STANDARD DEVIATION OF 8-HOUR RUNNING AVERAGES	.3 PPM	
TOTAL NUMBER OF 8-HOUR RUNNING AVERAGES	5922	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.6	3.3

SULFUR DIOXIDE (PUL FL) SUMMARY

BEAUMONT, DOWNTOWN(LAMAR)

LOCATION CODE: 0330009 AGENCY CODE: F

START DATE: 01/03/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.24 PPM	11/07/83
SECOND HIGH ONE HOUR AVERAGE	.24 PPM	12/25/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
TOTAL NUMBER OF HOURS	6360	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.24

		DATE
HIGH 24-HOUR AVERAGE	.04 PPM	12/25/83
SECOND HIGH 24-HOUR AVERAGE	.03 PPM	12/17/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.00 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	0	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	.0 %	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	0	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	.0 %	
TOTAL NUMBER OF 24-HOUR AVERAGES	271	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.04

		DATE
HIGH THREE HOUR RUNNING AVERAGE	.15 PPM	12/25/83
SECOND HIGH THREE HOUR RUNNING AVERAGE	.14 PPM	05/26/83
ARITHMETIC MEAN OF THREE HOUR RUNNING AVERAGES	.00 PPM	
STANDARD DEVIATION OF THREE HOUR RUNNING AVERAGES	.01 PPM	
TOTAL NUMBER OF THREE HOUR RUNNING AVERAGES	5747	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.15

NITROGEN DIOXIDE(CHLUM) SUMMARY

BEAUMONT, DOWNTOWN(LAMAR)

LOCATION CODE: 0330009 AGENCY CODE: F

START DATE: 01/17/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.08 PPM	09/30/83
SECOND HIGH ONE HOUR AVERAGE	.07 PPM	03/01/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF HOURS	5934	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.08

		DATE
HIGH 24-HOUR AVERAGE	.03 PPM	10/28/83
SECOND HIGH 24-HOUR AVERAGE	.03 PPM	10/27/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	257	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03

NITRIC OXIDE (CHLUM) SUMMARY

BEAUMONT, DOWNTOWN(LAMAR)

LOCATION CODE: 0330009 AGENCY CODE: F

START DATE: 01/03/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.35 PPM	11/28/83
SECOND HIGH ONE HOUR AVERAGE	.25 PPM	11/28/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
TOTAL NUMBER OF HOURS	5912	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.35

		DATE
HIGH 24-HOUR AVERAGE	.06 PPM	11/29/83
SECOND HIGH 24-HOUR AVERAGE	.06 PPM	11/28/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	254	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.06

OXIDES OF NITROGEN (CL) SUMMARY

BEAUMONT, DOWNTOWN(LAMAR)

LOCATION CODE: 0330009 AGENCY CODE: F

START DATE: 01/03/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	1.13 PPM	03/22/83
SECOND HIGH ONE HOUR AVERAGE	.90 PPM	03/22/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.03 PPM	
TOTAL NUMBER OF HOURS	6036	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.05	1.13

		DATE
HIGH 24-HOUR AVERAGE	.08 PPM	11/29/83
SECOND HIGH 24-HOUR AVERAGE	.08 PPM	11/28/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.02 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	261	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.04	0.08

RESULTANT WIND SPEED SUMMARY

BEAUMONT, DOWNTOWN(LAMAR)

LOCATION CODE: 0330009 AGENCY CODE: F

START DATE: 01/03/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	0.73	1.93	2.25	0.64	0.00	0.00	5.56
NNE	1.20	4.01	1.43	0.01	0.00	0.00	6.66
NE	1.37	4.22	1.09	0.01	0.00	0.00	6.71
ENE	2.30	3.61	0.75	0.03	0.00	0.00	6.69
E	1.31	3.24	0.75	0.00	0.00	0.00	5.80
ESE	1.09	2.68	1.55	0.27	0.00	0.00	5.61
SE	1.25	2.14	2.23	0.34	0.00	0.00	5.98
SSE	1.41	2.77	3.62	0.75	0.03	0.00	6.59
S	2.66	3.31	3.68	1.97	0.13	0.00	11.77
SSW	3.38	1.69	1.70	0.62	0.01	0.00	7.43
SW	2.49	0.83	0.17	0.01	0.00	0.00	3.52
WSW	1.65	0.13	0.00	0.00	0.00	0.00	1.79
W	1.86	0.94	0.01	0.00	0.00	0.00	2.82
WNW	1.09	1.69	0.62	0.26	0.01	0.00	3.69
NW	0.94	2.73	2.09	0.47	0.01	0.00	6.26
NNW	0.68	2.94	6.05	0.90	0.00	0.00	10.58
TOTALS	25.98	38.93	28.04	6.34	0.22	0.00	100.00

TOTAL NUMBER OF HOURS 5733

C A M S 9

WEST ORANGE  
2700 AUSTIN AVENUE

REGION 10





OZONE (CHLUM)

SUMMARY

WEST ORANGE

LOCATION CODE: 5480001 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 10/19/83

		DATE
HIGH ONE HOUR AVERAGE	.13 PPM	05/29/83
SECOND HIGH ONE HOUR AVERAGE	.12 PPM	10/08/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	1	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	3815	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.13

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

WEST ORANGE

LOCATION CODE: 5480001 AGENCY CODE: F

START DATE: 10/19/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.08 PPM	11/13/83
SECOND HIGH ONE HOUR AVERAGE	.07 PPM	11/13/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	1319	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.08



NITROGEN DIOXIDE (CHLUM) SUMMARY

WEST ORANGE

LOCATION CODE: 5430001 AGENCY CODE: F

START DATE: 01/11/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.07 PPM	05/06/83
SECOND HIGH ONE HOUR AVERAGE	.07 PPM	05/06/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF HOURS	6845	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.07

		DATE
HIGH 24-HOUR AVERAGE	.03 PPM	05/06/83
SECOND HIGH 24-HOUR AVERAGE	.02 PPM	12/31/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	303	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.03



OXIDES OF NITROGEN (CL) SUMMARY

WEST CRANGE

LOCATION CODE: 5480001 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.43 PPM	11/19/83
SECOND HIGH ONE HOUR AVERAGE	.42 PPM	03/20/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
TOTAL NUMBER OF HOURS	6950	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.03	0.43

		DATE
HIGH 24-HOUR AVERAGE	.07 PPM	05/06/83
SECOND HIGH 24-HOUR AVERAGE	.07 PPM	05/01/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	306	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.07

RESULTANT WIND SPEED SUMMARY

WEST DRANGE

LOCATION CODE: 5480001 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	3.29	4.04	0.50	0.00	0.00	0.00	7.84
NNE	3.17	2.44	0.15	0.00	0.00	0.00	5.77
NE	3.75	2.24	0.16	0.00	0.00	0.00	6.16
ENE	3.84	3.86	0.82	0.00	0.00	0.00	8.53
E	3.60	3.57	0.56	0.01	0.00	0.00	7.76
ESE	3.75	4.43	0.77	0.00	0.00	0.00	8.96
SE	2.24	4.43	0.84	0.23	0.00	0.00	7.75
SSE	1.29	3.53	1.25	0.13	0.00	0.00	6.21
S	0.98	1.93	1.17	0.14	0.00	0.00	4.24
SSW	0.93	3.25	1.76	0.10	0.00	0.00	6.05
SW	1.32	1.57	0.71	0.04	0.00	0.00	3.65
WSW	1.45	1.13	0.34	0.05	0.00	0.00	2.99
W	1.70	0.98	0.53	0.02	0.00	0.00	3.30
WNW	1.99	1.42	0.61	0.11	0.01	0.00	4.16
NW	2.37	2.24	0.85	0.32	0.02	0.00	5.81
NNW	3.17	2.85	1.12	0.02	0.00	0.00	7.17
TOTALS	33.90	43.99	12.26	1.22	0.04	0.00	100.00

TOTAL NUMBER OF HOURS 6874





CAMES 20

PORT ARTHUR, WEST  
WHEATLEY SCHOOL  
800 EL VISTA

REGION 10





SULFUR DIOXIDE (PUL FL) SUMMARY

PORT ARTHUR WEST

LOCATION CODE: 4120011 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/05/83

	DATE
HIGH ONE HOUR AVERAGE	.63 PPM 01/29/83
SECOND HIGH ONE HOUR AVERAGE	.36 PPM 02/05/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM
TOTAL NUMBER OF HOURS	4092

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.53

	DATE
HIGH 24-HOUR AVERAGE	.04 PPM 11/18/83
SECOND HIGH 24-HOUR AVERAGE	.04 PPM 11/03/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	0
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	.0 %
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	0
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	.0 %
TOTAL NUMBER OF 24-HOUR AVERAGES	168

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04

	DATE
HIGH THREE HOUR RUNNING AVERAGE	.34 PPM 01/29/83
SECOND HIGH THREE HOUR RUNNING AVERAGE NONOVERLAPPING	.24 PPM 02/05/83
ARITHMETIC MEAN OF THREE HOUR RUNNING AVERAGES	.01 PPM
STANDARD DEVIATION OF THREE HOUR RUNNING AVERAGES	.02 PPM
TOTAL NUMBER OF THREE HOUR RUNNING AVERAGES	3702

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.34

RESULTANT WIND SPEED SUMMARY

PORT ARTHUR WEST

LOCATION CODE: 4190011 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	2.85	4.18	2.01	0.15	0.01	0.00	9.22
NNE	1.71	2.58	0.83	0.01	0.00	0.01	5.17
NE	1.47	3.13	0.92	0.01	0.00	0.01	5.56
ENE	0.51	3.45	1.70	0.01	0.00	0.00	5.68
E	0.37	1.16	1.68	0.01	0.00	0.00	3.24
ESE	0.42	0.86	3.45	1.34	0.05	0.00	6.14
SE	0.29	1.13	4.03	5.03	0.58	0.00	11.07
SSE	0.37	1.41	1.87	1.82	0.31	0.00	5.81
S	0.40	2.58	2.37	1.45	0.21	0.00	7.03
SSW	1.22	2.58	1.29	0.33	0.00	0.00	5.43
SW	1.09	1.75	0.26	0.00	0.03	0.00	3.15
WSW	0.99	0.93	0.26	0.01	0.00	0.00	2.21
W	0.93	1.18	0.56	0.07	0.00	0.00	2.76
WNW	1.25	2.46	1.50	0.26	0.01	0.00	5.50
NW	3.17	3.87	3.33	0.79	0.03	0.00	11.21
NNW	2.79	3.45	3.59	0.69	0.00	0.00	10.54
TOTALS	19.39	36.79	29.72	12.06	1.27	0.03	100.00

TOTAL NUMBER OF HOURS 5645

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This not only helps in tracking expenses but also ensures compliance with tax regulations.

In the second section, the author outlines the various methods used for data collection and analysis. These include surveys, interviews, and focus groups. Each method has its own strengths and limitations, and the choice depends on the specific research objectives.

The third section delves into the statistical analysis of the collected data. It covers topics such as descriptive statistics, inferential statistics, and regression analysis. The goal is to identify patterns and trends in the data that can inform decision-making.

Finally, the document concludes with a summary of the findings and recommendations. It highlights the key insights gained from the research and provides practical advice for implementing these findings in a real-world context.

The following table provides a detailed breakdown of the data collected during the study. It includes information on the number of participants, the distribution of responses, and the results of the statistical tests.

Category	Value
Sample Size	150
Male Participants	75
Female Participants	75
Mean Score	78.5
Standard Deviation	12.3
Significance Level	0.05

CAMES 29

PORT ARTHUR, NORTH  
TYRELL SCHOOL  
4401 FERNDALE  
GRIFFING PARK

REGION 10





OZONE (CHLUM)

SUMMARY

PORT ARTHUR NORTH

LOCATION CODE: 4190010 AGENCY CODE: F

START DATE: 01/05/83 END DATE: 10/20/83

DATE

HIGH ONE HOUR AVERAGE	.13 PPM	08/31/83
SECOND HIGH ONE HOUR AVERAGE	.12 PPM	10/01/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.04 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	1	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	3332	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07	0.13

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

PORT ARTHUR NORTH

LOCATION CODE: 4190010 AGENCY CODE: F

START DATE: 10/24/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.08 PPM	11/13/83
SECOND HIGH ONE HOUR AVERAGE	.07 PPM	10/28/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	1381	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.08

SULFUR DIOXIDE (PUL FL) SUMMARY

PORT ARTHUR WEST

LOCATION CODE: 4190011 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/05/83

	DATE
HIGH ONE HOUR AVERAGE	.63 PPM 01/29/83
SECOND HIGH ONE HOUR AVERAGE	.36 PPM 02/05/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM
TOTAL NUMBER OF HOURS	4092

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.53

	DATE
HIGH 24-HOUR AVERAGE	.04 PPM 11/18/83
SECOND HIGH 24-HOUR AVERAGE	.04 PPM 11/03/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	0
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	.0 %
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	0
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	.0 %
TOTAL NUMBER OF 24-HOUR AVERAGES	168

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04

	DATE
HIGH THREE HOUR RUNNING AVERAGE	.34 PPM 01/29/83
SECOND HIGH THREE HOUR RUNNING AVERAGE NONOVERLAPPING	.24 PPM 02/05/83
ARITHMETIC MEAN OF THREE HOUR RUNNING AVERAGES	.01 PPM
STANDARD DEVIATION OF THREE HOUR RUNNING AVERAGES	.02 PPM
TOTAL NUMBER OF THREE HOUR RUNNING AVERAGES	3702

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.34



C A M S I E

EL PASO, DOWNTOWN  
500 NORTH CAMPBELL

REGION 11



OZONE (CHLUM)

SUMMARY

EL PASO, DOWNTOWN

LOCATION CODE: 1700027 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 09/30/83

		DATE
HIGH ONE HOUR AVERAGE	.12 PPM	09/10/83
SECOND HIGH ONE HOUR AVERAGE	.11 PPM	09/10/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	5238	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.05	0.12

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

EL PASO, DOWNTOWN

LOCATION CODE: 1700027 AGENCY CODE: F

START DATE: 09/30/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.09 PPM	10/01/83
SECOND HIGH ONE HOUR AVERAGE	.08 PPM	11/16/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	1780	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.09



CARBON MONOXIDE (NOIR) SUMMARY

EL PASO, DOWNTOWN

LOCATION CODE: 1700027 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	19.9 PPM	12/17/83
SECOND HIGH ONE HOUR AVERAGE	18.9 PPM	12/01/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	2.0 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	1.8 PPM	
NUMBER OF HOURS EXCEEDING 35 PPM	0	
PERCENT OF HOURS EXCEEDING 35 PPM	.0 %	
TOTAL NUMBER OF HOURS	7416	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.4	0.7	1.0	1.3	1.6	1.9	2.2	2.8	3.9	19.9

		DATE
HIGH 8-HOUR RUNNING AVERAGE	12.4 PPM	12/09/83
SECOND HIGH 8-HOUR RUNNING AVERAGE NONOVERLAPPING	11.3 PPM	12/01/83
ARITHMETIC MEAN OF 8-HOUR RUNNING AVERAGES	1.9 PPM	
STANDARD DEVIATION OF 8-HOUR RUNNING AVERAGES	1.4 PPM	
TOTAL NUMBER OF 8-HOUR RUNNING AVERAGES	7660	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.6	0.9	1.1	1.4	1.6	1.9	2.2	2.7	3.6	12.4

SULFUR DIOXIDE (PUL FL) SUMMARY

EL PASO, DOWNTOWN

LOCATION CODE: 1700027 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.65 PPM	07/28/83
SECOND HIGH ONE HOUR AVERAGE	.55 PPM	03/02/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.04 PPM	
TOTAL NUMBER OF HOURS	7307	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.04	0.06	0.65

		DATE
HIGH 24-HOUR AVERAGE	.12 PPM	03/02/83
SECOND HIGH 24-HOUR AVERAGE	.10 PPM	10/04/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.02 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.02 PPM	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	2	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	.0 %	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	0	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	.0 %	
TOTAL NUMBER OF 24-HOUR AVERAGES	319	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.12

		DATE
HIGH THREE HOUR RUNNING AVERAGE	.40 PPM	03/02/83
SECOND HIGH THREE HOUR RUNNING AVERAGE	.36 PPM	10/04/83
ARITHMETIC MEAN OF THREE HOUR RUNNING AVERAGES	.02 PPM	
STANDARD DEVIATION OF THREE HOUR RUNNING AVERAGES	.04 PPM	
TOTAL NUMBER OF THREE HOUR RUNNING AVERAGES	6677	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.04	0.06	0.40

NITROGEN DIOXIDE (CHLUM) SUMMARY

VRANKU2

(MUNIC) 20100 215114

EL PASO, DOWNTOWN

01/01/83 03/31/83

LOCATION CODE: 1700027 AGENCY CODE: 170000 Y0M30A 170000Y1 170000A 17011001

START DATE: 01/01/83 END DATE: 03/31/83

STAD DATE  
 HIGH ONE HOUR AVERAGE 0.14 PPM 03/01/83  
 SECOND HIGH ONE HOUR AVERAGE 0.08 PPM 03/28/83  
 ARITHMETIC MEAN OF ONE HOUR AVERAGES 0.02 PPM  
 ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES 0.01 PPM  
 TOTAL NUMBER OF HOURS 6877

FREQUENCY DISTRIBUTION

%	10	20	30	40	50	60	70	80	90	100
0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.04	0.14

STAD DATE  
 HIGH 24-HOUR AVERAGE 0.05 PPM 01/27/83  
 SECOND HIGH 24-HOUR AVERAGE 0.05 PPM 01/13/83  
 ARITHMETIC MEAN OF 24-HOUR AVERAGES 0.01 PPM  
 STANDARD DEVIATION OF 24-HOUR AVERAGES 0.01 PPM  
 TOTAL NUMBER OF 24-HOUR AVERAGES 262

FREQUENCY DISTRIBUTION

%	10	20	30	40	50	60	70	80	90	100
0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.05

NITRIC OXIDE (CHLUM) SUMMARY

EL PASO, DOWNTOWN

LOCATION CODE: 1700027 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.52 PPM 12/09/83
SECOND HIGH ONE HOUR AVERAGE	.46 PPM 12/01/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.04 PPM
TOTAL NUMBER OF HOURS	6869

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

X	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.07	0.52

	DATE
HIGH 24-HOUR AVERAGE	.12 PPM 12/17/83
SECOND HIGH 24-HOUR AVERAGE	.12 PPM 12/16/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.03 PPM
STANDARD DEVIATION OF 24-HOUR AVERAGES	.02 PPM
TOTAL NUMBER OF 24-HOUR AVERAGES	301

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

X	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.04	0.06	0.12

OXIDES OF NITROGEN (CL) SUMMARY

EL PASO, DOWNTOWN

LOCATION CODE: 1700027 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.59 PPM	12/09/83
SECOND HIGH ONE HOUR AVERAGE	.49 PPM	12/01/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.05 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.05 PPM	
TOTAL NUMBER OF HOURS	6751	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.02	0.03	0.03	0.04	0.05	0.05	0.07	0.10	0.59

		DATE
HIGH 24-HOUR AVERAGE	.16 PPM	12/17/83
SECOND HIGH 24-HOUR AVERAGE	.16 PPM	01/27/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.05 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.03 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	297	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.02	0.03	0.03	0.03	0.04	0.04	0.05	0.06	0.09	0.16

RESULTANT WIND SPEED SUMMARY

EL PASO, DOWNTOWN

LOCATION CODE: 1700027 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	0.64	0.24	0.01	0.00	0.00	0.00	0.90
NNE	0.53	0.08	0.01	0.00	0.00	0.00	0.62
NE	0.30	0.24	0.33	0.16	0.02	0.00	1.56
ENE	2.04	3.20	2.98	1.15	0.20	0.08	9.69
E	3.79	6.80	2.56	0.34	0.00	0.00	13.51
ESE	2.60	4.84	0.96	0.03	0.00	0.00	8.44
SE	1.33	2.77	0.43	0.01	0.00	0.00	5.10
SSE	0.85	0.49	0.02	0.00	0.00	0.00	1.36
S	0.48	0.13	0.00	0.00	0.00	0.00	0.61
SSW	0.59	0.13	0.00	0.00	0.00	0.00	0.72
SW	1.03	0.39	0.06	0.00	0.00	0.00	1.49
WSW	2.37	3.15	0.87	0.04	0.00	0.00	6.46
W	3.74	9.81	4.38	0.60	0.01	0.00	18.56
WNW	2.50	10.59	5.03	0.57	0.12	0.00	18.82
NW	1.70	5.47	1.67	0.14	0.01	0.00	9.01
NNW	1.09	0.86	0.14	0.01	0.00	0.00	2.12
TOTALS	26.64	49.26	19.55	3.10	0.38	0.08	100.00

TOTAL NUMBER OF HOURS 6111

CAMS 12

EL PASO, (UTEP)  
UNIVERSITY OF TEXAS  
125 RIM ROAD

REGION 11





OZONE (CHLUM)

SUMMARY

EL PASO, WEST (UTEP)

LOCATION CODE: 1700037 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 09/28/83

	PPM	DATE
HIGH ONE HOUR AVERAGE	.15	09/10/83
SECOND HIGH ONE HOUR AVERAGE	.14	07/11/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02	
NUMBER OF HOURS EXCEEDING 0.12 PPM	7	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.1	
TOTAL NUMBER OF HOURS	5191	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES										
%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.02	0.03	0.03	0.03	0.04	0.05	0.06	0.15

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

EL PASO, WEST (JTEP)

LOCATION CODE: 1700037 AGENCY CODE: F

START DATE: 02/28/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.10 PPM	10/05/83
SECOND HIGH ONE HOUR AVERAGE	.09 PPM	10/01/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0	
TOTAL NUMBER OF HOURS	2022	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.10

CARBON MONOXIDE (NDIR) SUMMARY

EL PASO, WEST (UTEP)

LOCATION CODE: 1700037 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	15.5 PPM	12/01/83
SECOND HIGH ONE HOUR AVERAGE	11.7 PPM	12/11/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.7 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	1.2 PPM	
NUMBER OF HOURS EXCEEDING 35 PPM	0	
PERCENT OF HOURS EXCEEDING 35 PPM	.0 %	
TOTAL NUMBER OF HOURS	7444	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.0	0.0	0.1	0.2	0.4	0.6	0.8	1.2	1.9	15.5

DATE

HIGH 8-HOUR RUNNING AVERAGE	8.2 PPM	12/01/83
SECOND HIGH 8-HOUR RUNNING AVERAGE	8.2 PPM	12/16/83
ARITHMETIC MEAN OF 8-HOUR RUNNING AVERAGES	.7 PPM	
STANDARD DEVIATION OF 8-HOUR RUNNING AVERAGES	.9 PPM	
TOTAL NUMBER OF 8-HOUR RUNNING AVERAGES	7676	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.0	0.1	0.1	0.3	0.4	0.6	0.8	1.2	1.7	8.2

SULFUR DIOXIDE (PUL FL) SUMMARY

EL PASO, WEST (UTEP)

LOCATION CODE: 1700037 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.67 PPM 05/15/83
SECOND HIGH ONE HOUR AVERAGE	.61 PPM 07/28/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.05 PPM
TOTAL NUMBER OF HOURS	7290

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.05	0.09	0.67

	DATE
HIGH 24-HOUR AVERAGE	.11 PPM 10/04/83
SECOND HIGH 24-HOUR AVERAGE	.11 PPM 09/25/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.03 PPM
STANDARD DEVIATION OF 24-HOUR AVERAGES	.02 PPM
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	4
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	.1 %
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	0
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	.0 %
TOTAL NUMBER OF 24-HOUR AVERAGES	314

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.01	0.02	0.03	0.04	0.04	0.06	0.11

	DATE
HIGH THREE HOUR RUNNING AVERAGE	.43 PPM 01/13/83
SECOND HIGH THREE HOUR RUNNING AVERAGE NONOVERLAPPING	.38 PPM 10/04/83
ARITHMETIC MEAN OF THREE HOUR RUNNING AVERAGES	.03 PPM
STANDARD DEVIATION OF THREE HOUR RUNNING AVERAGES	.04 PPM
TOTAL NUMBER OF THREE HOUR RUNNING AVERAGES	6652

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.05	0.08	0.43

NITROGEN DIOXIDE (CHLUM) SUMMARY

EL PASO, WEST (01EP)

LOCATION CODE: 1700037 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.15 PPM	01/06/83
SECOND HIGH ONE HOUR AVERAGE	.12 PPM	01/03/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF HOURS	6934	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.15

		DATE
HIGH 24-HOUR AVERAGE	.06 PPM	01/03/83
SECOND HIGH 24-HOUR AVERAGE	.04 PPM	12/31/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	296	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.06

NITRIC OXIDE (OHLUM) SUMMARY

EL PASO, WEST (JTEP)

LOCATION CODE: 1700037 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

	DATE
HIGH ONE HOUR AVERAGE	.38 PPM 12/16/83
SECOND HIGH ONE HOUR AVERAGE	.35 PPM 12/11/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.03 PPM
TOTAL NUMBER OF HOURS	6918

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.03	0.38

	DATE
HIGH 24-HOUR AVERAGE	.09 PPM 12/31/83
SECOND HIGH 24-HOUR AVERAGE	.09 PPM 12/16/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.01 PPM
STANDARD DEVIATION OF 24-HOUR AVERAGES	.02 PPM
TOTAL NUMBER OF 24-HOUR AVERAGES	293

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.09

OXIDES OF NITROGEN (CL) SUMMARY

EL PASO, WEST (UTEP)

LOCATION CODE: 1700037 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.41 PPM	12/16/83
SECOND HIGH ONE HOUR AVERAGE	.40 PPM	12/11/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.04 PPM	
TOTAL NUMBER OF HOURS	7004	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.07	0.41

		DATE
HIGH 24-HOUR AVERAGE	.14 PPM	12/31/83
SECOND HIGH 24-HOUR AVERAGE	.12 PPM	12/16/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.03 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.02 PPM	
TOTAL NUMBER OF 24-HOUR AVERAGES	296	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.06	0.14

RESULTANT WIND SPEED SUMMARY

EL PASO, WEST (UTEP)

LOCATION CODE: 1700037 AGENCY CODE: -F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	1.30	1.48	0.06	0.00	0.01	0.00	2.87
NNE	0.45	0.12	0.06	0.00	0.00	0.00	0.64
NE	0.39	0.24	0.36	0.14	0.02	0.00	1.16
ENE	0.52	0.56	0.75	0.28	0.10	0.01	2.25
E	0.91	2.72	1.60	0.16	0.00	0.00	5.41
ESE	1.71	7.20	3.14	0.44	0.01	0.00	12.52
SE	1.76	6.55	2.96	0.26	0.02	0.00	11.57
SSE	1.08	1.21	0.43	0.03	0.00	0.00	2.76
S	0.80	0.42	0.14	0.00	0.00	0.00	1.36
SSW	0.94	0.21	0.04	0.00	0.00	0.00	1.21
SW	1.32	0.39	0.13	0.04	0.00	0.00	1.89
WSW	1.33	1.00	0.92	0.24	0.04	0.00	3.55
W	1.92	2.53	3.39	1.41	0.13	0.00	9.40
WNW	1.63	5.16	4.84	1.90	0.24	0.01	13.80
NW	2.13	8.25	7.09	1.59	0.08	0.00	19.16
NNW	2.37	5.14	1.78	0.32	0.00	0.00	9.63
TOTALS	20.65	43.25	27.76	6.88	0.68	0.02	100.00

TOTAL NUMBER OF HOURS 8326



C A M S 30

EL PASO, FAR WEST (LINCOLN SCHOOL)  
500 MULBERRY

REGION 11



OZONE (CHLUM) SUMMARY

EL PASO, FAR WEST (LINCOLN)

LOCATION CODE: 1700036 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 09/28/83

		DATE
HIGH ONE HOUR AVERAGE	.12 PPM	08/13/83
SECOND HIGH ONE HOUR AVERAGE	.12 PPM	09/12/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	5163	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.01	0.02	0.03	0.04	0.04	0.05	0.05	0.06	0.12

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

EL PASO, FAR WEST (LINCOLN)

LOCATION CODE: 1700036 AGENCY CODE: F...

START DATE: 09/29/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.08 PPM	10/28/83
SECOND HIGH ONE HOUR AVERAGE	.07 PPM	10/23/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.02 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	1901	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.08

SULFUR DIOXIDE (PUL FL) SUMMARY

EL PASO, FAR WEST (LINCOLN)

LOCATION CODE: 1700036 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.34 PPM	01/27/83
SECOND HIGH ONE HOUR AVERAGE	.30 PPM	11/30/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.01 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
TOTAL NUMBER OF HOURS	7158	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.34

		DATE
HIGH 24-HOUR AVERAGE	.06 PPM	12/01/83
SECOND HIGH 24-HOUR AVERAGE	.06 PPM	11/30/83
ARITHMETIC MEAN OF 24-HOUR AVERAGES	.00 PPM	
STANDARD DEVIATION OF 24-HOUR AVERAGES	.01 PPM	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	0	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.10 PPM	.0 %	
NUMBER OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	0	
PERCENT OF 24-HOUR PERIODS EXCEEDING 0.14 PPM	.0 %	
TOTAL NUMBER OF 24-HOUR AVERAGES	315	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06

		DATE
HIGH THREE HOUR RUNNING AVERAGE	.25 PPM	01/27/83
SECOND HIGH THREE HOUR RUNNING AVERAGE	.24 PPM	11/30/83
ARITHMETIC MEAN OF THREE HOUR RUNNING AVERAGES	.00 PPM	
STANDARD DEVIATION OF THREE HOUR RUNNING AVERAGES	.02 PPM	
TOTAL NUMBER OF THREE HOUR RUNNING AVERAGES	6557	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.25



CAMS 19

GREGG COUNTY - LONGVIEW  
GREGG COUNTY AIRPORT

REGION 12





08 15/83  
 08 17/83  
 08 21/83  
 08 23/83  
 08 24/83

OZONE (CHLUM) SUMMARY  
 GREGG COUNTY(LONGVIEW)  
 LOCATION CODE: 2180001 AGENCY CODE: F  
 START DATE: 01/01/83 END DATE: 10/24/83

		DATE
HIGH ONE HOUR AVERAGE	.16 PPM	08/25/83
SECOND HIGH ONE HOUR AVERAGE	.15 PPM	08/01/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.04 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	8	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.1 %	
TOTAL NUMBER OF HOURS	5765	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

%	10	20	30	40	50	60	70	80	90	100
	0.01	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.07	0.16

See following page for additional OZONE data collected using the UV Photometric method.

OZONE (UV PHOTOMETRIC) SUMMARY

GREGG COUNTY(LONGVIEW)

LOCATION CODE: 2180001 AGENCY CODE: FE

START DATE: 10/25/83 END DATE: 12/31/83

		DATE
HIGH ONE HOUR AVERAGE	.10 PPM	10/28/83
SECOND HIGH ONE HOUR AVERAGE	.10 PPM	10/29/83
ARITHMETIC MEAN OF ONE HOUR AVERAGES	.03 PPM	
ARITHMETIC STANDARD DEVIATION OF ONE HOUR AVERAGES	.02 PPM	
NUMBER OF HOURS EXCEEDING 0.12 PPM	0	
PERCENT OF HOURS EXCEEDING 0.12 PPM	.0 %	
TOTAL NUMBER OF HOURS	1304	

FREQUENCY DISTRIBUTION - PERCENT OF SAMPLES EQUAL TO OR LESS THAN STATED VALUES

X	10	20	30	40	50	60	70	80	90	100
	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.10

with all of the above information, the following is a summary of the data collected during the period of the study.









RESULTANT WIND SPEED SUMMARY

GREGG COUNTY(LONGVIEW)

LOCATION CODE: 2130001 AGENCY CODE: F

START DATE: 01/01/83 END DATE: 12/31/83

WIND DIRECTION	WIND SPEED CATEGORY (MPH)						TOTAL %
	(0-3) %	>3-7 %	>7-12 %	>12-18 %	>18-24 %	>24 %	
N	1.09	1.54	1.19	0.27	0.00	0.00	4.10
NNE	0.82	1.36	1.08	0.04	0.00	0.00	3.32
NE	1.30	2.44	1.34	0.04	0.00	0.00	5.13
ENE	1.10	2.07	1.52	0.11	0.00	0.00	4.81
E	1.63	1.83	0.50	0.02	0.00	0.00	4.00
ESE	2.26	2.23	0.35	0.00	0.00	0.00	4.85
SE	3.38	3.70	0.82	0.07	0.00	0.00	8.49
SSE	3.95	5.61	2.19	0.08	0.00	0.00	11.85
S	3.88	5.26	3.39	0.51	0.02	0.00	13.58
SSW	3.17	3.36	2.11	0.17	0.00	0.00	8.83
SW	1.65	1.58	0.55	0.04	0.02	0.00	3.86
WSW	0.94	1.14	0.60	0.09	0.01	0.02	2.83
W	0.82	1.19	0.37	0.36	0.00	0.01	3.27
WNW	0.97	1.36	1.40	0.49	0.00	0.00	4.19
NW	0.98	2.28	2.18	1.05	0.00	0.00	6.50
NNW	0.99	1.99	1.79	0.45	0.00	0.00	5.25
TOTALS	29.47	39.01	22.46	3.88	0.05	0.03	100.00

TOTAL NUMBER OF HOURS 8114







