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# TEXAS AIR CONTROL BOARD



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1983  
SUMMARY OF TOTAL  
SUSPENDED  
PARTICULATE  
DATA







**1983**

TEXAS AIR CONTROL BOARD

SUMMARY

OF

TOTAL SUSPENDED PARTICULATE DATA







## INFORMATION FOUND IN THE SUMMARIES

The data presented in this report are the result of ambient total suspended particulate (TSP) air sampling which was conducted in Texas during the year 1983. All samples were collected with high volume air samplers for 24-hour periods at six day intervals.

Data are arranged in order by Air Quality Control Region (AQCR). The computer program which generated this report currently sorts within AQCR by county and then SAROAD site number. We intend to sort by AQCR and SAROAD number next year.

A statistical summary is given for each sampling site. The following information is presented in the report.

Start Date - Date first sample of the data group was taken.

End Date - Date last sample of the data group was taken.

Number of Samples - Total number of samples in the data group.

Maximum 24-Hour Concentration - Highest single 24-hour concentration measured during the reporting period.

Second High - The second highest individual 24-hour concentration measured.

Arithmetic Mean - A measure of central tendency calculated as the sum of a group of data values divided by the number of values in the group.

Standard Deviation - A measure of dispersion (i.e., measure of scatter of data values about the arithmetic mean). If a group of values are normally distributed, approximately 95% of all the values would be within two standard deviations of the mean. Where the distribution of values deviates greatly from the normal distribution (as is often the case with gaseous pollutants), the standard deviation may be of little significance.

Geometric Mean - A measure of central tendency used with values which are lognormally distributed. Specifically, the geometric mean of a group of N data values is the Nth root of the product of the values. Air pollution data are considered to be lognormally distributed.

Standard Geometric Deviation - A measure of the scatter within a data group. The standard geometric deviation is equal to the ratio of the 68th percentile to the 50th percentile. If all the values in a group of data were equal, then the standard geometric deviation would be 1.0. Typical values of standard geometric deviation range from about 1.2 to 2.0. Generally, values which are greater than 2.0 indicate that the data were widely scattered, indicating that some other analysis method should have been used or that the sample size is too small for the standard geometric deviation to apply.



Micrograms Per Cubic Meter (µg/m<sup>3</sup>) - A standard method of expressing the concentration of a pollutant on a mass per volume basis; 1 microgram = .000001 gram.

In addition to data collected by the TACB, several local air pollution control agencies have supplied data for this report. State and local sampling sites can be readily differentiated in the report by noting the "Source" code. A code of "04" indicates a state sampler, samples analyzed by the Texas Air Control Board Laboratory. The source codes "02" or "06" are used for data supplied by local agencies. Local air pollution control agencies furnishing data follow.

Corpus Christi - Nueces County  
Department of Health and Welfare  
Air Pollution Control Division  
(Source Code 02)

Dallas City Public Health Department  
Air Pollution Control Division  
(Source Code 02)

El Paso City - County Health Department  
Air Pollution Control  
(Source Code 06)

Fort Worth Department of Public Health  
Air Pollution Control Section  
(Source Code 02)

Galveston County Health District  
Air Pollution Control Division  
(Source Code 02)

City of Houston Department of Public Health  
Bureau of Air Quality Control  
(Source Code 06)

San Antonio Metropolitan Health District  
Air Pollution Control  
(Source Code 06)



The national primary and secondary ambient air quality standards are listed on a following page to aid the reader in interpreting the information published in this report. The primary standards represent levels of air quality required to protect the public health and the secondary standards represent a level of air quality required to protect the public welfare from any known or anticipated adverse effect of pollutants in the ambient air. Ambient air is the outdoor air, which can be called "the community air," defined by the EPA as, "that portion of the atmosphere external to buildings to which the general public has access."

Sampling locations can be strongly influenced by nearby activity. Construction is a common pollution source which can have major affects, especially on particulate levels. Data from these sites are often not considered valid for computer modeling studies. Detailed information for each sampling site is available from the Data Management and Engineering Division of the Texas Air Control Board.

Naturally occurring dust conditions can also influence sampling results. Reviews of weather service records are made by the TACB meteorologist who identifies dates with potential for dust conditions. Sampling results from the identified potential days are compared to the average value at each site, and unusually high values are flagged. The second line of the TSP Summary for each site (identified by the symbol "\*\*") is calculated with the dust influenced sample values excluded.



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.



## Quality Assurance

Both the TACB and participating local agencies operate their air quality networks within a single, strictly controlled, quality assurance (QA) framework. Therefore, sampling error in the SIP network does not vary greatly from agency to agency.

Control of total suspended particulate (TSP) samples is accomplished by testing all key points of measurement such as filter weighings, flow rate calibrations, and data processing. The TACB and local agency audit results during 1981 indicated that about 95% of the samples collected were accurate to within  $\pm 7\%$ . TACB and local agency laboratory standards have been compared to those of the National Bureau of Standards and the Environmental Protection Agency. These tests have established that the state's standards for TSP measurement are in very good agreement with those of the federal government. Therefore, the 7% error limit can be ascribed to sampling imprecision inherent in the method.

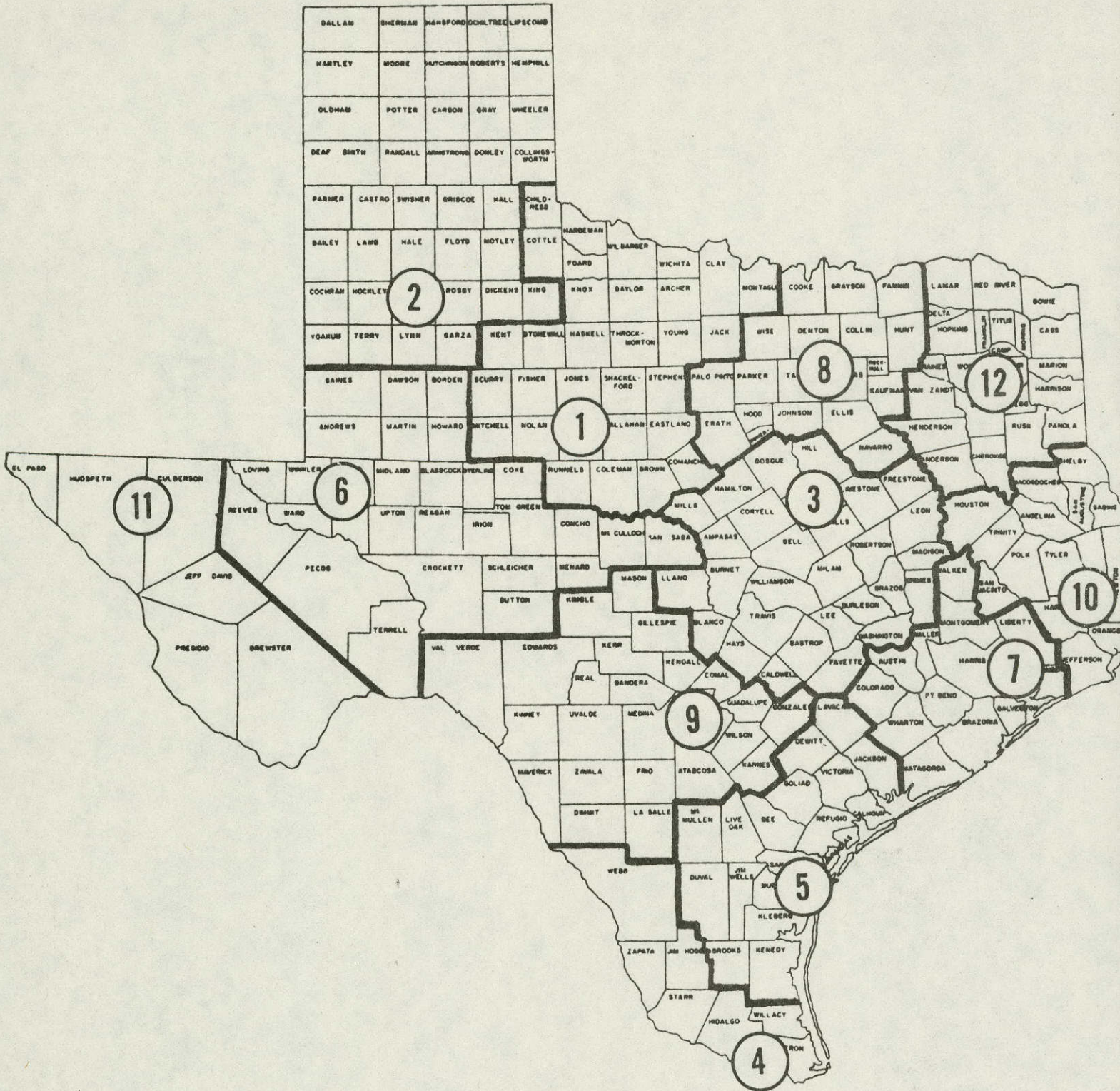
Gas bubbler data which have been included in this report in prior years are not included this year. Most local programs have stopped using this sampling method and the sulfur dioxide monitoring done by the TACB does not use a federal reference or equivalent sampling method. These data are available however, and may be obtained from the Data Management and Engineering Division of the Texas Air Control Board.







# AIR QUALITY CONTROL REGIONS

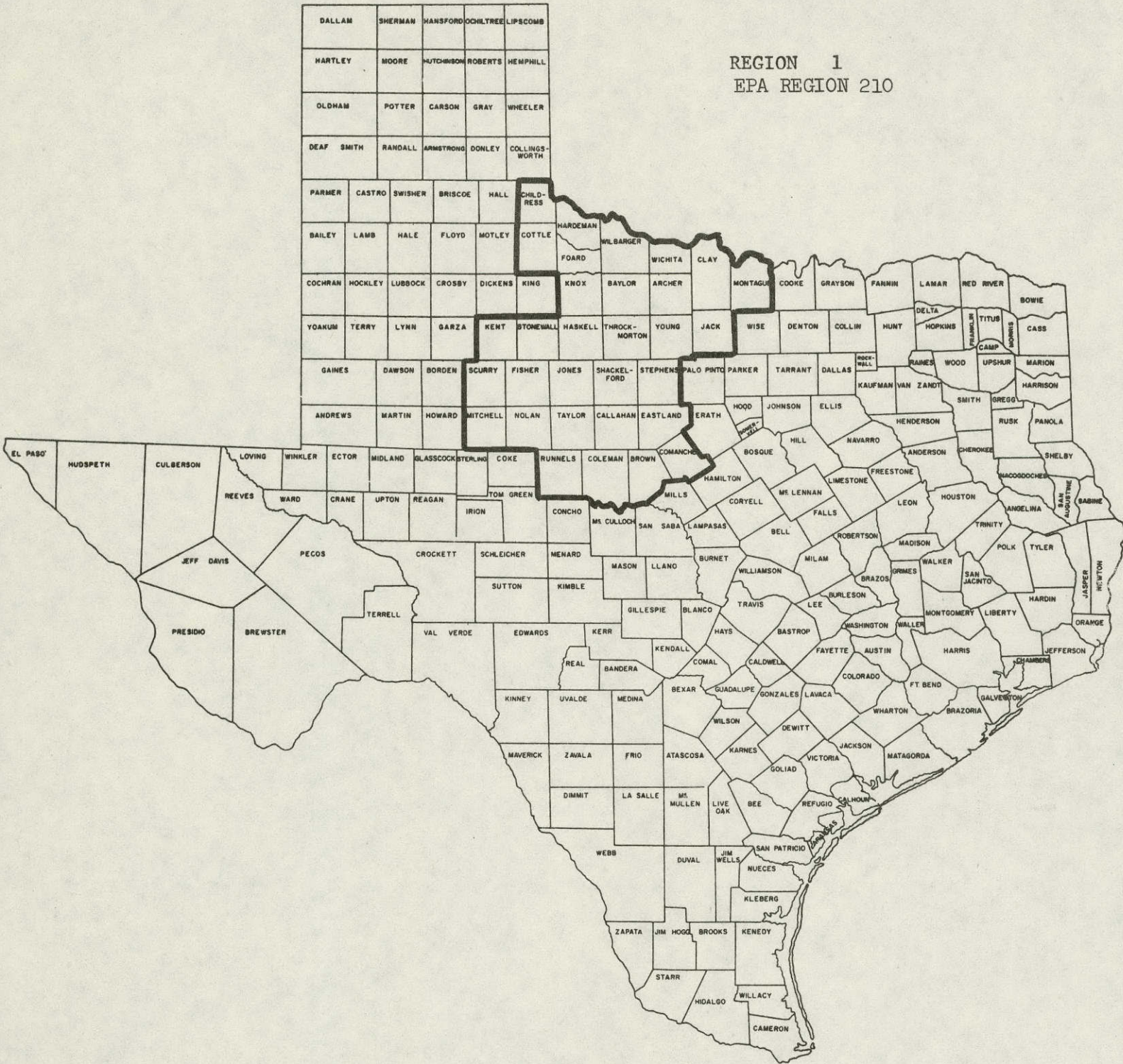








REGION 1  
EPA REGION 210









TEXAS AIR SURVEILLANCE REPORT  
 PARTICULATE DATA  
 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 01		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
ABILENE	TSP	01/06/83	12/26/83	55	163	124	71	25	67	1.4
450010001F01				* 52	124	115	68	21	65	1.4
CENTRAL FIRE STATION, 2ND AND MULBE RFF, ROOF COUNTY TAYLOR										
ABILENE (STATE PARK)	TSP	01/06/83	12/26/83	55	102	83	39	19	33	2.2
450010002F03				* 54	83	79	38	17	32	2.1
WATERTOWER COMPOUND, ABILENE STATE PARK COUNTY TAYLOR										
BROWNWOOD	TSP	01/06/83	12/20/83	58	72	69	41	15	37	1.7
450660002F01				* 56	72	69	40	15	36	1.7
115 INDIAN CREEK RD., BROWNWOOD, 76 801 COUNTY BROWN										
WICHITA FALLS	TSP	01/06/83	12/20/83	56	110	93	55	19	52	1.5
455560002F01				* 53	110	91	53	18	50	1.4
1700 3RD ST, CITY-CD HEALTH UNIT COUNTY WICHITA										

\* NO DUSTSTORM DATA ARE INCLUDED















TEXAS AIR SURVEILLANCE REPORT  
 PARTICULATE DATA  
 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 02		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
AMARILLO (HEALTH)	TSP	01/06/83	12/26/83	42	162	157	73	37	64	1.8
450070002F01				* 39	162	157	70	36	60	1.7
417 S AUSTIN ST ROOFTOP P-R HEALTH DEPT COUNTY POTTER										
LUBBOCK	TSP	01/06/83	12/26/83	52	155	153	78	33	68	2.0
453340001F01				* 49	153	126	73	28	64	2.0
ROOF CENTRAL FIRE STATION, 1100 6TH ST AT K COUNTY LUBBOCK										

\* NO DUSTSTORM DATA ARE INCLUDED















TEXAS AIR SURVEILLANCE REPORT  
 PARTICULATE DATA  
 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 03		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
AUSTIN (HEALTH)	TSP	01/06/83	06/23/83	25	78	76	56	14	54	1.3
450220004F02				* 24	78	75	55	14	53	1.3
CITY-COUNTY HEALTH DEPT, 1313 SABINE ST, ROOF COUNTY TRAVIS										
AUSTIN (DAWSON)	TSP	01/06/83	06/23/83	27	86	85	51	16	48	1.4
450220005F01 MOLLIE DAWSON SCHOOL, ROOF, 3001 S. 1ST ST, AT POWELL ST COUNTY TRAVIS										
AUSTIN (RIDGETOP)	TSP	01/06/83	12/14/83	49	115	91	48	18	45	1.5
450220010F01				* 48	115	91	48	18	45	1.5
RIDGETOP SCHOOL ROOF 5005 CASWELL AVE COUNTY TRAVIS										
AUSTIN, NORTHWEST (CAMS 3)	TSP	01/06/83	06/23/83	18	56	55	45	8	44	1.2
450220014F01				* 17	56	54	44	8	44	1.2
3724 NO. HILLS DR. A, MURCHISON JR. HIGH COUNTY TRAVIS										
AUSTIN (EAST AUSTIN)	TSP	01/06/83	12/20/83	55	98	96	57	18	54	1.4
450220016F01 2802 WEBBERVILLE RD; PLEASANT-VALLEY RD & WEBBERVILLE RD COUNTY TRAVIS										

\* NO DUSTSTORM DATA ARE INCLUDED



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 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

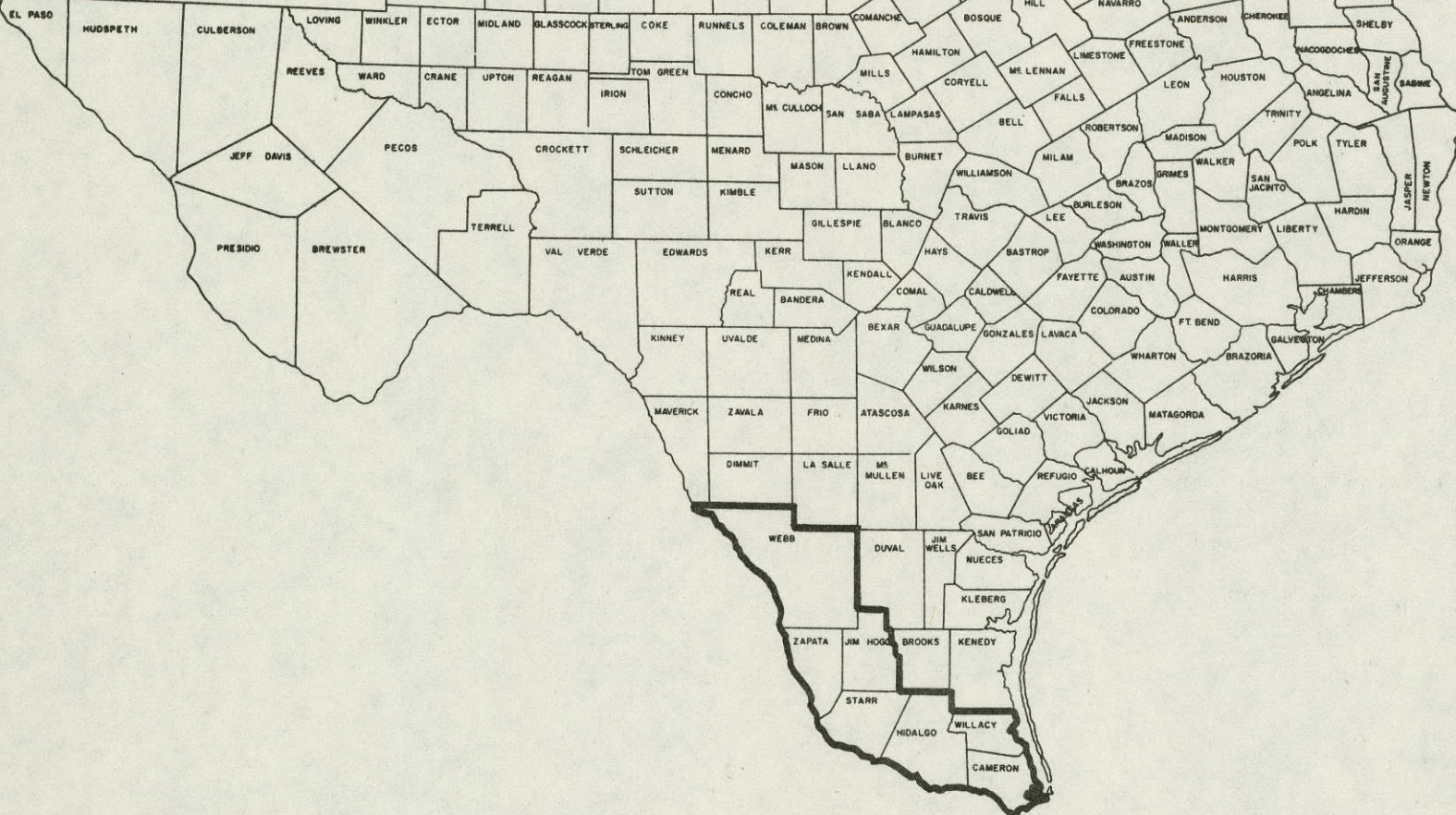
REGION 03		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
WACO	TSP	01/06/83	12/26/83	60	78	74	47	13	45	1.4
455370007F01				* 59	78	74	46	13	44	1.4
COLONIAL HILL FIRE STATION 2800 BUS QUE BLVD COUNTY MCLENNAN										

\* NO DUSTSTORM DATA ARE INCLUDED



REGION 4  
EPA REGION 213

DALLAM	SHERMAN	HANSFORD	DOOLITTLE	LIPSCOMB
HARTLEY	MOORE	HITCHCOCK	ROBERTS	HEMPHILL
OLDHAM	POTTER	CARSON	GRAY	WHEELER
DEAF SMITH	RANDALL	ARMSTRONG	DONLEY	COLLINGSWORTH
PARMER	CASTRO	SWISHER	BRISCOE	HALL CHILDRESS
BAILEY	LAMB	HALE	FLOYD	MOTLEY COTTLE
COCHRAN	HOCKLEY	LUBBOCK	CROSBY	DICKENS KING KNOX BAYLOR ARCHER
YOAKUM	TERRY	LYNN	GARZA	KENT STONEWALL HASKELL THROCKMORTON
GAINES	DAWSON	BORDEN	SCURRY	FISHER JONES SHACKELFORD
ANDREWS	MARTIN	HOWARD	MITCHELL	NOLAN TAYLOR CALLAHAN EASTLAND ERATH









TEXAS AIR SURVEILLANCE REPORT  
PARTICULATE DATA  
CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 04		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
BROWNSVILLE (PORT) 450650003F01 NAVIGATION DISTRICT OFFICE PORT BR WNSVILLE COUNTY CAMERON	TSP	01/30/83	12/14/83	34	124	110	66	24	57	2.2
BROWNSVILLE (ZOO) 450650004F01 GLADYS PORTER ZOO AT 6TH AND KINGOL D COUNTY CAMERON	TSP	01/06/83	12/26/83	54 * 52	127 127	119 119	75 73	24 23	70 69	1.5 1.5
HARLINGEN 452320001F01 WATER WORKS, 3RD + JEFFERSON, HARLI NGEN COUNTY CAMERON	TSP	01/06/83	12/20/83	51 * 49	115 115	107 107	61 60	20 20	58 57	1.4 1.4
HARLINGEN 452320002F01 DPS BUILDING COUNTY CAMERON	TSP	01/30/83	12/14/83	41	180	133	64	27	59	1.4
LAREDO 453140014F01 LAREDO-WEBB CO. HEAL. DEPT., 2600 CE DAR ST. COUNTY WEBB	TSP	01/18/83	12/26/83	49	281	179	88	44	79	1.6

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TEXAS AIR SURVEILLANCE REPORT  
 PARTICULATE DATA  
 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 04		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
MCALLEN 453390003F01 DEPT. OF PUBLIC SAFETY BUILDING  COUNTY HIDALGO	TSP	01/06/83	12/26/83	46	470	116	72	63	63	1.5
SAN BENITO 454600002F01 195 ADELE ST., PUBLIC SCHOOL ADM. B LDG. COUNTY CAMERON	TSP	10/09/83	12/26/83	11	108	85	63	23	59	1.5











TEXAS AIR SURVEILLANCE REPORT  
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REGION 05		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
CORPUS CHRISTI (MORGAN) 451150001F01 VECTOR CONTROL BLDG, 3041 MORGAN, M ORGAN AT SABINAS COUNTY NUECES	TSP	01/06/83	12/20/83	49	147	126	70	21	67	1.3
CORPUS CHRISTI (STAPLES) 451150003F01 FIRE STATION NO. 7, 3802 S. STAPLES , STAPLES AT DODDGE COUNTY NUECES	TSP	01/06/83	12/20/83	49 * 47	95 95	88 88	57 56	19 19	54 53	1.5 1.5
CORPUS CHRISTI (SITE L) 451150005G03 U.S. WEATHER BUREAU INTERNATIONAL A IRPORT COUNTY NUECES	TSP	01/06/83	12/26/83	57 * 55	152 152	134 88	47 44	24 20	42 41	1.5 1.5
CORPUS CHRISTI 451150012F01 FIRE STATION NO. 5, 3312 LEOPARD, L EOPARD AT NUECES BAY COUNTY NUECES	TSP	01/06/83	12/26/83	57	115	114	68	20	65	1.4
CORPUS CHRISTI (SITE M) 451150015G01 FIRE STATION NO. 12, 2120 RAND MORG AN RD, .5 MI SOUTH OF STATE 407 COUNTY NUECES	TSP	01/06/83	12/26/83	59 * 56	165 90	107 84	48 45	25 18	43 41	1.6 1.6

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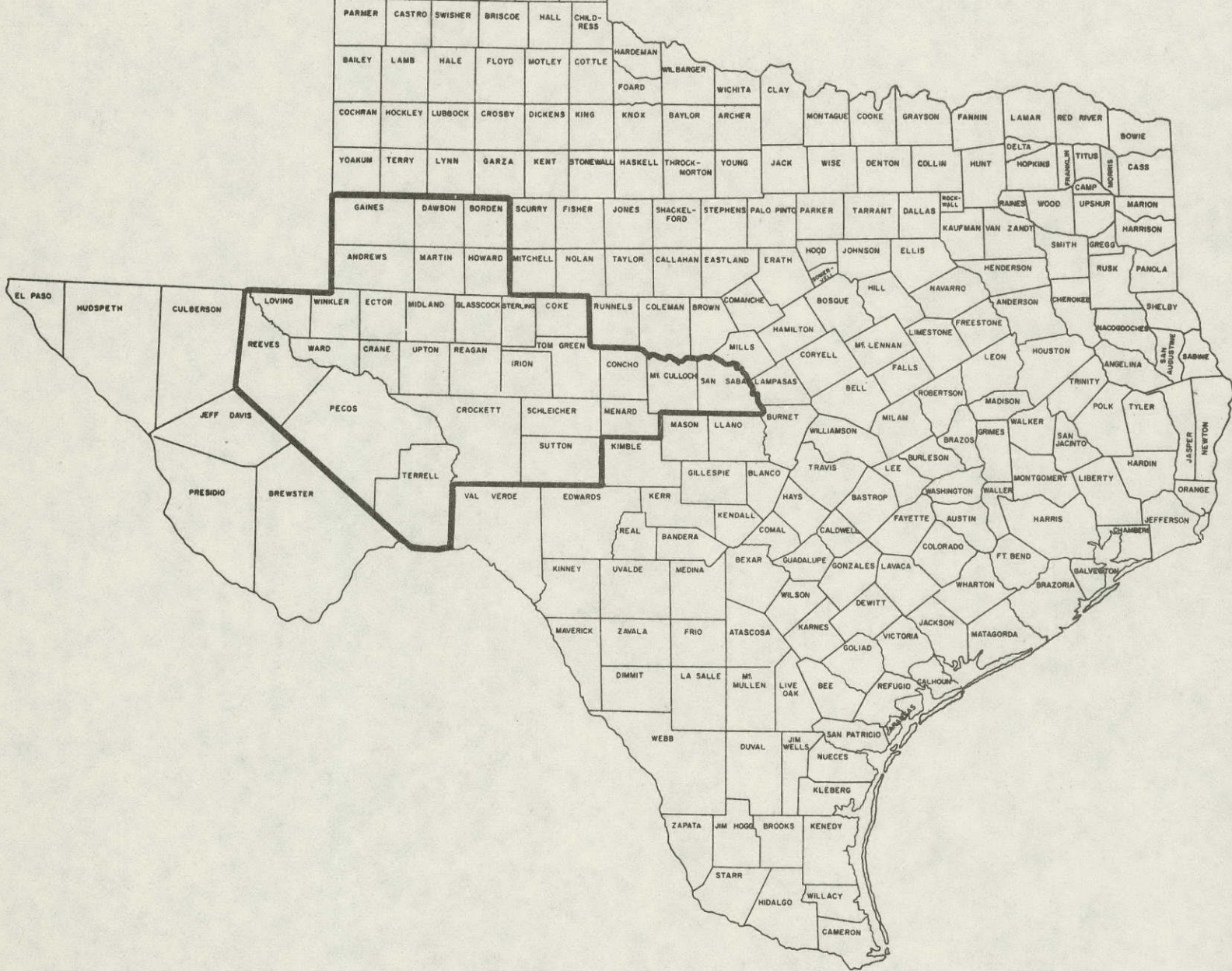
REGION 05		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
CORPUS CHRISTI (SITE T) 451150020G02 1111 NAVIGATION (BETWEEN HWY 37 & UPPER RIVER RD.) COUNTY NUECES										
	TSP	01/06/83	12/26/83	57	209	197	107	34	102	1.4
				* 56	209	177	106	32	101	1.4
CORPUS CHRISTI (NAVIGATION) 451150023F01 5100 NAVIGATION BLVD. COUNTY NUECES										
	TSP	01/06/83	12/20/83	51	207	144	65	29	60	1.5
				* 50	207	104	63	27	59	1.5
CORPUS CHRISTI (SITE R) 451150024G01 ANNAVILLE VOLUNTEER FIRE DEPT-11408 LEOPARD COUNTY NUECES										
	TSP	01/06/83	12/26/83	56	96	90	51	20	47	1.5
				* 55	96	90	50	19	46	1.5
CORPUS CHRISTI WEST (CAMS 4) 451150025F01 CORPUS CHRISTI STATE SCH. 902 AIRPORT RD. COUNTY NUECES										
	TSP	01/12/83	12/26/83	54	96	79	51	18	47	1.5
				* 53	96	79	51	18	47	1.5
ODEM, SAN PATRICIO (CAMS 2L) 454650002F01 1306 PARK AVE. HIGHWAY 77, ODEM COUNTY SAN PATRICIO										
	TSP	01/12/83	06/29/83	26	79	72	55	13	53	1.3
				* 25	72	72	54	12	52	1.3

\* NO DUSTSTORM DATA ARE INCLUDED



REGION 6  
EPA REGION 218

DALLAM	SHERMAN	HANSFORD	DOOLITTLE	LIPSCOMB
HARTLEY	MOORE	HUTCHINSON	ROBERTS	HEMPHILL
OLDHAM	POTTER	CARSON	GRAY	WHEELER
DEAF SMITH	RANDALL	ARMSTRONG	DONLEY	COLLINGSWORTH









TEXAS AIR SURVEILLANCE REPORT  
 PARTICULATE DATA  
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REGION 06		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
BIG SPRING 450440002F01 HOWARD COUNTY COURTHOUSE, 3RD AND MAIN ST. COUNTY HOWARD	TSP	01/06/83	08/22/83	37 * 34	238 238	190 124	85 77	45 38	76 71	1.6 1.5
MIDLAND CIVIC CENTER 453620002F01 100 N. MAIN STREET, CIVIC CENTER COUNTY MIDLAND	TSP	07/29/83	12/26/83	22	85	83	60	21	53	1.8
ODESSA 453910001F01 ROOF MENTAL HEALTH AND MENTAL RETARDATION AT 7TH AND DIXIE COUNTY ECTOR	TSP	01/06/83	08/16/83	35 * 32	750 183	189 156	104 79	121 39	80 71	1.9 1.6
ODESSA (CAMS 14) 453910002F01 3008 E. UNIVERSITY BLVD. PARKER PARK COUNTY ECTOR	TSP	01/06/83	12/26/83	50 * 46	161 131	131 94	59 54	28 21	53 49	1.7 1.6
TOM GREEN 455200001F03 FISH HATCHERY NO. 1 COUNTY TOM GREEN	TSP	01/12/83	12/14/83	45 * 42	91 91	85 81	49 46	17 15	46 44	1.4 1.4

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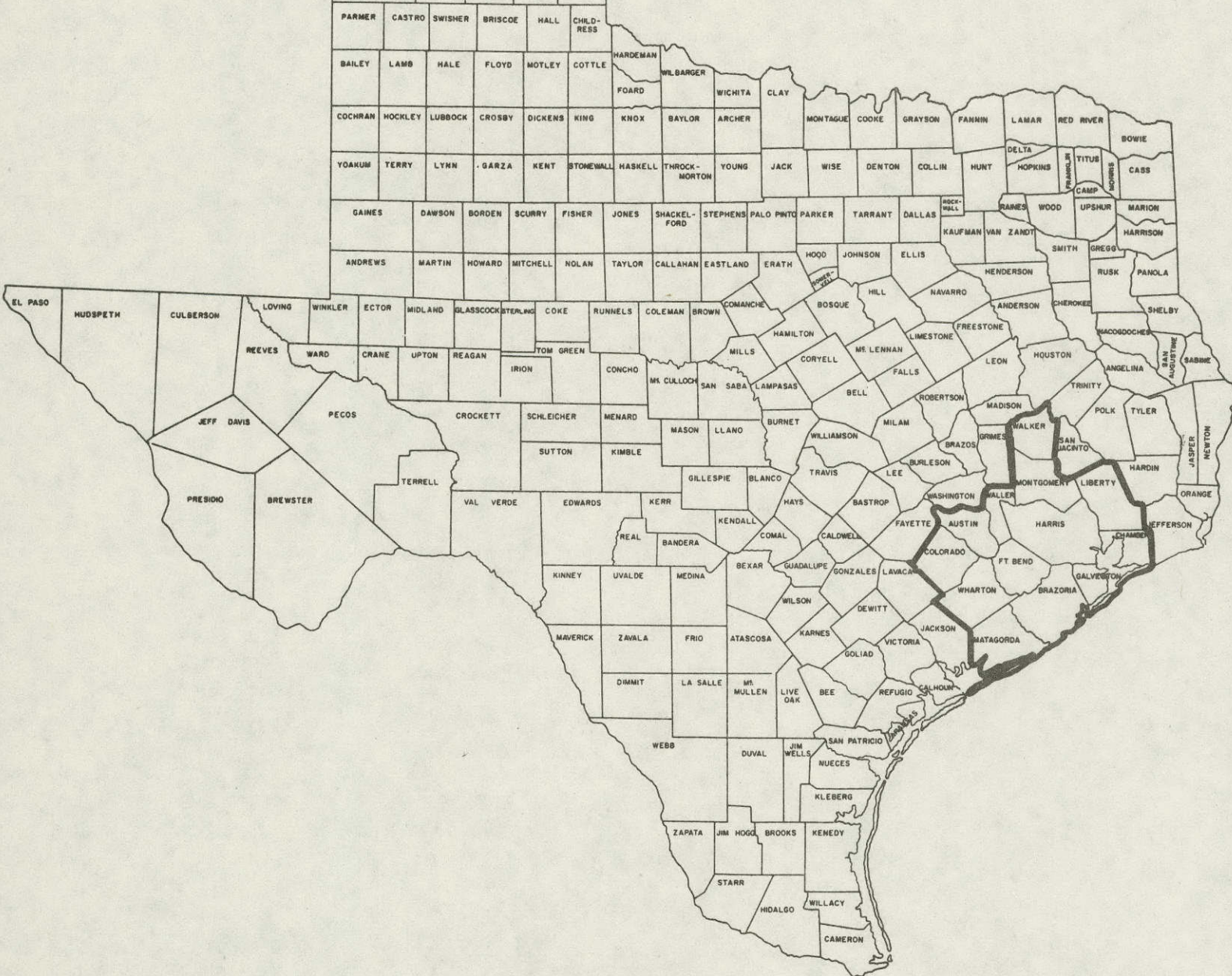






REGION 7  
EPA REGION 216

DALLAM	SHERMAN	HANSFORD	OGLETREE	LIPSCOMB
HARTLEY	MOORE	MITCHELLSON	ROBERTS	HEMPHILL
OLDHAM	POTTER	CARSON	GRAY	WHEELER
DEAF SMITH	RANDALL	ARMSTRONG	DONLEY	COLLINGSWORTH









TEXAS AIR SURVEILLANCE REPORT  
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REGION 07		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
BAYTOWN (ROSELAND)	TSP	05/30/83	08/10/83	11	74	67	50	14	48	1.3
450320001F01				* 10	74	67	48	13	47	1.3
ROSELAND PARK, ROSELAND DRIVE										
COUNTY HARRIS										
BAYTOWN (PARK)	TSP	01/06/83	12/26/83	48	92	83	51	17	48	1.5
450320002F01										
WATER TOWER, 1200 PARK ST										
COUNTY HARRIS										
CHAMBERS CO. BEACH CITY	TSP	01/06/83	09/03/83	25	83	80	47	15	45	1.3
450860001F03										
FM 2354 AT BEACH CITY COMMUNITY BUILDING										
COUNTY CHAMBERS										
CLUTE (CAMS 11)	TSP	01/12/83	12/14/83	45	146	122	70	23	67	1.4
450950003F01										
COBB FIELD, 426 COMMERCE ST.										
COUNTY BRAZORIA										
DEER PARK (CENTER)	TSP	07/23/83	12/26/83	18	100	87	51	23	47	1.6
451370001F01										
1301 CENTER STREET										
COUNTY HARRIS										

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REGION 07		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
DEER PARK (DP 1) 451370001H01 1301 CENTER STREET AT 13TH ST.	TSP	01/06/83	04/12/83	17	84	78	59	16	57	1.4
COUNTY HARRIS										
DEER PARK (DP 22) 451370002H02 SHELL OIL, DEER PARK	TSP	01/06/83	04/12/83	17	98	96	68	21	65	1.4
COUNTY HARRIS										
DEER PARK (CAMS 18) 451370003F01 1102 W. PASADENA	TSP	01/06/83	12/26/83	51	73	73	50	15	47	1.4
COUNTY HARRIS										
DICKINSON 451480001G01 NORTH COUNTY BUILDING	TSP	01/06/83	08/10/83	37	84	69	45	13	43	1.3
COUNTY GALVESTON										
GALENA PARK 451970002F01 304 STEWART ST. (3RD ST.); ROOF, WATER METER OFFICE	TSP	10/03/83	12/26/83	15	120	118	69	31	61	1.7
COUNTY HARRIS										

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REGION 07		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
GALVESTON (PELICAN ISLAND)	TSP	01/06/83	12/26/83	46	112	85	49	19	45	1.5
451980002G01				* 45	85	81	47	17	44	1.5
MOODY COLLEGE, TX. A&M, MAINTENANCE B LDG. COUNTY GALVESTON										
GALVESTON (GALV. CO. 47)	TSP	01/06/83	12/26/83	50	99	85	51	16	48	1.4
451980047G01 56TH ST. AT O & 1/2 ST. COUNTY GALVESTON										
CYPRESS	TSP	01/06/83	12/26/83	55	163	92	56	24	51	1.6
452330004F01 22602 HEMPSTEAD HWY., ROOF CY-FAIR HIGH SCHOOL COUNTY HARRIS										
HOUSTON (SITE 20)	TSP	01/06/83	04/12/83	15	158	97	63	33	57	1.7
452330020H02 JACINTOPORT, BETHLEHEM STEEL, SHELDR ON ROAD COUNTY HARRIS										
HOUSTON (SITE 23)	TSP	01/06/83	04/12/83	17	68	66	46	14	43	1.4
452330023H02 HL&P BERTRON STA., MILLER CUT-OFF ROAD COUNTY HARRIS										

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REGION 07		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
HARRIS CO. ALDINE (CAMS 8)	TSP	01/06/83	12/26/83	53	144	116	64	26	59	1.5
452330024F01 4510 ALDINE MAIL RD, HAMBRECK JR. HI (NO. OF HOUSTON) COUNTY HARRIS										
HOUSTON (SITE 18)	TSP	01/06/83	04/12/83	17	191	112	77	41	68	1.7
452330025H02 BULK MATERIALS HANDLING PLANT, PENN CITY RD. COUNTY HARRIS										
CHANNELVIEW (CAMS 15)	TSP	01/06/83	12/26/83	49	113	97	57	18	54	1.4
452330026F01 1405 SHELDON ROAD  COUNTY HARRIS										
CLOVERLEAF (HARRIS CO.)	TSP	11/26/83	12/26/83	6	55	45	41	10	39	1.3
452330031F01 903 HOLLYWOOD, CLOVERLEAF  COUNTY HARRIS										
HOUSTON (SITE 01)	TSP	01/06/83	12/26/83	57	111	103	69	19	66	1.3
452560001H01 * 56 111 103 68 19 66 1.3 SAM HOUSTON COLISEUM, 810 BAGBY STR EET AT WALKER COUNTY HARRIS										

\* NO DUSTSTORM DATA ARE INCLUDED



TEXAS AIR SURVEILLANCE REPORT  
 PARTICULATE DATA  
 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 07		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
HOUSTON (SITE S-6) 452560006H01 3801 CULLEN AT ELGIN, UNIVERSITY OF HOUSTON COUNTY HARRIS	TSP	01/06/83	12/26/83	58	103	98	59	17	56	1.3
HOUSTON (SITE S-7) 452560007H01 1115 N. MACGREGOR, CITY HEALTH DEPT COUNTY HARRIS	TSP	01/06/83	12/26/83	56	99	96	59	17	56	1.3
HOUSTON (SITE S-9) 452560009H01 6902 BELLAIRE AT BENTLIFF COUNTY HARRIS	TSP	01/06/83	12/26/83	56	109	108	64	16	62	1.3
HOUSTON (SITE S-10) 452560010H01 3735 W. ALABAMA AT CUMMINGS COUNTY HARRIS	TSP	01/06/83	12/26/83	59	88	85	54	14	52	1.3
HOUSTON (SITE S-17) 452560017H02 WATER STATION, 12550 CLINTON AT FEDERAL COUNTY HARRIS	TSP	01/06/83	04/12/83	17	114	94	69	23	65	1.5

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TEXAS AIR SURVEILLANCE REPORT  
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 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 07		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
HOUSTON (SITE S-19) 452560019H01 PORT HOUSTON, TERMINAL OFFICE COUNTY HARRIS	TSP	01/06/83	12/14/83	57	210	203	102	42	95	1.5
HOUSTON (ADAMS TERMINAL) 452560028F01 PHILLIPS PETROLEUM, ADAMS TERMINAL ON TX 225 COUNTY HARRIS	TSP	03/23/83	12/26/83	14	106	86	50	22	47	1.4
HOUSTON (SITE S-21) 452560028H02 PHILLIPS PETROLEUM, ADAMS TERMINAL ON TEXAS 225 COUNTY HARRIS	TSP	01/06/83	04/12/83	17	131	111	57	27	52	1.5
HOUSTON EAST (CAMS 1) 452560034F01 1224 MAE DRIVE (POLAND P. HARRIS EL EM. SCHOOL) COUNTY HARRIS	TSP	01/06/83	12/20/83	51	126	115	72	21	69	1.3
HOUSTON (SITE T5) 452560035H01 9525 CLINTON DR AT CLINTON PARK COUNTY HARRIS	TSP	01/06/83	12/26/83	53	232	218	113	53	101	1.6

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TEXAS AIR SURVEILLANCE REPORT  
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 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 07		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
HOUSTON (SITE T19 CRAWFORD) 452560037H02 1307 CRAWFORD AT POLK COUNTY HARRIS	TSP	01/06/83	12/26/83	56	119	109	70	18	68	1.3
HOUSTON (SITE T-25) 452560039H01 7834 FUQUA COUNTY HARRIS	TSP	01/06/83	12/26/83	55	97	84	51	14	49	1.3
HOUSTON (SITE S-24) 452560040H01 2925 JEANNETTA AT CLARKCREST COUNTY HARRIS	TSP	01/06/83	12/26/83	53	85	75	51	14	49	1.3
HOUSTON (SITE S-25) 452560041H01 1602 SEAMIST COUNTY HARRIS	TSP	01/06/83	12/26/83	59	73	71	48	13	47	1.3
HOUSTON (SITE S-04) 452560042H01 10343 HARTSOOK FIRE STATION COUNTY HARRIS	TSP	01/06/83	12/26/83	54	82	78	50	12	48	1.3

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TEXAS AIR SURVEILLANCE REPORT  
 PARTICULATE DATA  
 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 07		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
HOUSTON (SITE S-05) 452560043H01 11212 CULLEN, PIPE STATION COUNTY HARRIS	TSP	01/06/83	12/26/83	53	93	90	58	13	56	1.3
HOUSTON (SITE S-08) 452560044H01 3828 ABERDEEN, PIPE STATION COUNTY HARRIS	TSP	01/06/83	12/26/83	60	87	80	50	14	48	1.3
HOUSTON (SITE S-11) 452560045H01 4420 BINGLE COUNTY HARRIS	TSP	01/06/83	12/26/83	58	90	82	55	15	53	1.4
HOUSTON (SITE S-13) 452560046H01 7330 N WAYSIDE COUNTY HARRIS	TSP	01/06/83	12/26/83	53	200	197	83	42	74	1.6
HOUSTON (SITE S-12) 452560048H01 10413 FULTON AT SUNNYSIDE COUNTY HARRIS	TSP	01/06/83	12/26/83	59	160	154	82	29	77	1.4

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TEXAS AIR SURVEILLANCE REPORT  
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 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 07		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
HOUSTON (SITE T-16 CROQUET) 452560051H01 13826 CROQUET NEAR DARLINGHURST INT ERSECTION COUNTY HARRIS	TSP	03/31/83	12/26/83	37	90	77	48	16	45	1.4
HOUSTON (SITE S-14 NEW KRESS) 452560054H01 702 KRESS, CLIFF TUTTLE LIBRARY COUNTY HARRIS	TSP	01/06/83	12/26/83	56	129	128	81	23	78	1.4
HOUSTON 452560056H01 GREGG & NEW ORLEANS COUNTY HARRIS	TSP	01/06/83	12/26/83	54	123	121	77	22	74	1.3
HOUSTON, MANCHESTER (CAMS 22) 452560059F01 7935 1/2 ADRIEN COUNTY HARRIS	TSP	01/06/83	12/08/83	41	133	128	74	25	70	1.4
LA MARQUE 453070001G01 CARBIDE PARK COUNTY GALVESTON	TSP	01/06/83	07/29/83	20	88	64	40	16	38	1.4

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TEXAS AIR SURVEILLANCE REPORT  
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 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 07		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
LA MARQUE 453070035G01 3RD ST & SHADY LANE COUNTY GALVESTON	TSP	01/06/83	12/26/83	39	83	77	53	15	51	1.4
LEAGUE CITY 453170001F01 ROOF CLEAR CREEK HIGH SCHOOL, LEAGUE CITY 2305 E MAIN COUNTY GALVESTON	TSP	01/06/83	12/02/83	34	134	91	54	21	51	1.4
PASADENA (POLICE ACADEMY) 454060002F01 208 W SHAW AT WALTER, POLICE ACADEMY COUNTY HARRIS	TSP	01/06/83	12/26/83	43	100	98	67	20	63	1.5
PASADENA (P-2) 454060002H01 208 W. SHAW AT WALTER, HASE TRAILER COUNTY HARRIS	TSP	01/06/83	04/12/83	10	94	81	69	12	68	1.2
PASADENA 454060008F01 1114 PARKSIDE & STRAWBERRY ST., STRAWBERRY PK. COUNTY HARRIS	TSP	02/05/83	12/26/83	50	104	93	53	18	49	1.5

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TEXAS AIR SURVEILLANCE REPORT  
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 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 07		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
SEABROOK (CAMS 20)	TSP	01/06/83	12/20/83	44	94	87	49	18	46	1.5
454715001F01				* 43	94	87	49	17	45	1.5
2401 E. MEYER RD., SEABROOK INTERMEDIATE SCHOOL COUNTY HARRIS										
TEXAS CITY (CAMS 10)	TSP	01/06/83	12/20/83	38	163	96	59	24	55	1.4
455170002F01 2701 13TH. AVE. NORTH AT LOGAN COUNTY GALVESTON										
TEXAS CITY	TSP	01/18/83	12/26/83	47	155	114	58	23	54	1.4
455170002G01 2701 13TH AVE., NORTH AT LOGAN (CAMS 10) COUNTY GALVESTON										
TEXAS CITY (COUNTY 4)	TSP	01/12/83	08/10/83	22	126	114	71	27	66	1.5
455170004G01 PIPE STATION, TEXAS AVE. & 25TH. ST. (LOGAN) COUNTY GALVESTON										
TEXAS CITY (LOOP 197)	TSP	01/12/83	07/17/83	25	86	85	54	14	52	1.3
455170013G01 LOOP 197 & STATE HWY 146 COUNTY GALVESTON										

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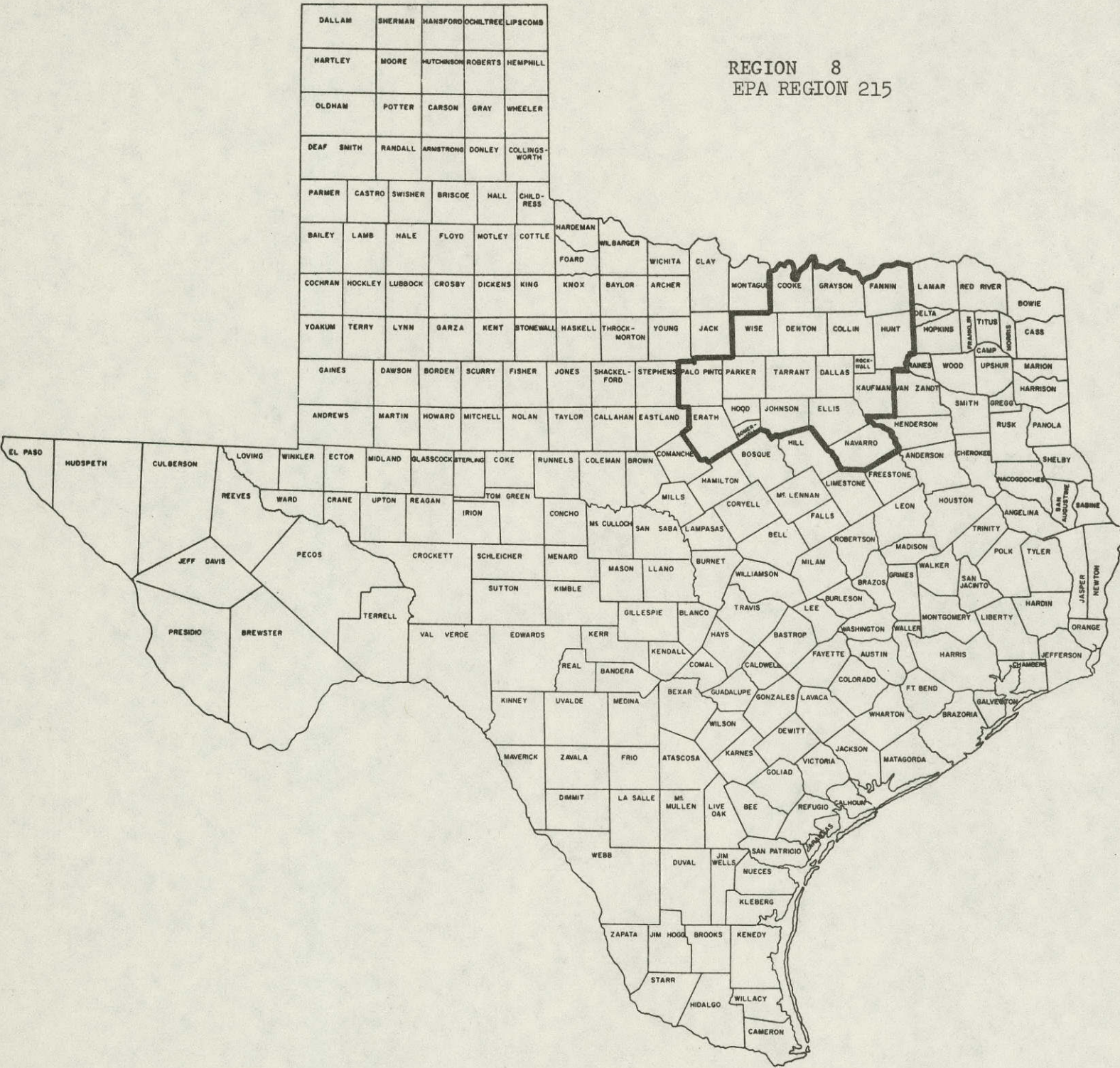


TEXAS AIR SURVEILLANCE REPORT  
 PARTICULATE DATA  
 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 07		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
TEXAS CITY	TSP	01/06/83	12/26/83	46	99	88	58	16	56	1.3
455170031G01				* 45	99	88	57	16	55	1.3
AIR CONTROL LAB, 1ST AVE SO. & 4TH ST.										
COUNTY GALVESTON										
TEXAS CITY (HOSPITAL)	TSP	01/06/83	08/10/83	34	113	105	59	20	56	1.4
455170051F01				* 33	113	88	58	19	55	1.4
COUNTY HOSPITAL-HWY 3 & HWY 1764										
COUNTY GALVESTON										
TEXAS CITY	TSP	01/06/83	11/14/83	38	104	93	66	18	63	1.3
455170053F01										
17TH AND 5TH AVE, NESSLER SWIMMING POOL										
COUNTY GALVESTON										



REGION 8  
EPA REGION 215









TEXAS AIR SURVEILLANCE REPORT  
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CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 08		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
ARLINGTON	TSP	01/06/83	12/26/83	59	104	99	58	21	54	1.5
450170004F03 FIRE STATION NO. 5 ROOF 2921 E RAND OL MILL RD COUNTY TARRANT										
FRISCO (COLLIN CO.)	TSP	01/05/83	12/26/83	55	105	94	48	21	43	1.7
451020001F01 711 HICKORY ST. (ROOF:ACKER ELEM.SCH . ) COUNTY COLLIN										
FRISCO (COLLIN CO.)	TSP	01/05/83	12/26/83	* 53	94	84	46	19	42	1.7
451020001F01 711 HICKORY ST. (ROOF:ACKER ELEM.SCH . ) COUNTY COLLIN										
CORSICANA (BIG BROWN)	TSP	01/24/83	10/09/83	33	123	102	74	21	70	1.4
451160001F01 CITY LIBRARY, 100 NO. 12TH ST. (ON ROOF) COUNTY DALLAS										
DALLAS (CITY 18)	TSP	01/06/83	12/26/83	93	113	113	57	22	53	1.5
451310018H02 3049 MORRELL COUNTY DALLAS										
DALLAS (CITY 18)	TSP	01/06/83	12/26/83	* 90	113	113	56	21	52	1.5
451310018H02 3049 MORRELL COUNTY DALLAS										
DALLAS (CITY 20)	TSP	01/06/83	12/20/83	50	90	81	55	16	52	1.4
451310020H01 4607 S. LANCASTER, FIRE STATION BET WEEN MENTOR AND ATLAS COUNTY DALLAS										

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TEXAS AIR SURVEILLANCE REPORT  
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 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 08		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
DALLAS (CITY 29)	TSP	01/06/83	12/26/83	50	125	123	70	22	67	1.4
451310029H01 8401 DOUGLAS AVE., FIRE STATION AT NORTHWEST HWY COUNTY DALLAS										
DALLAS (CITY 38)	TSP	01/06/83	12/26/83	43	92	83	55	15	53	1.3
451310038H01 1407 JOHN WEST RD., FIRE STATION AT GREENMEADOW COUNTY DALLAS										
DALLAS (MOCKINGBIRD)	TSP	01/06/83	12/26/83	58	104	97	61	19	58	1.4
451310044H01 1500 WEST MOCKINGBIRD COUNTY DALLAS										
DALLAS (CAMS 5)	TSP	01/06/83	12/26/83	53	76	60	41	12	39	1.4
451310045F01 12532 NUESTRA SEWELL WALKER MIDDLE S CHOOL COUNTY DALLAS										
DALLAS (CITY 46)	TSP	01/06/83	12/26/83	89	100	97	48	17	46	1.4
451310046H01 2922 MARTIN LUTHER KING JR. BLVD. COUNTY DALLAS										

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TEXAS AIR SURVEILLANCE REPORT  
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CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 08		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
DALLAS (FISH TRAP) 451310049H01 3345 FISH TRAP ROAD, ROOF-DALLAS HO USING AUTHORITY, ELMER SCOTT PLACE COUNTY DALLAS	TSP	01/06/83	12/20/83	54	112	110	65	20	61	1.4
DALLAS 451310050H01 717 SO. AKARD, DALLAS CONVENTION CE NTER (ROOF OF THEATER) COUNTY DALLAS	TSP	01/06/83	12/14/83	35	156	122	69	25	65	1.4
DALLAS (ILLINOIS) 451310052H01 4230 WEST ILLINOIS AT COCKRELL HILL DR. COUNTY DALLAS	TSP	01/06/83	12/20/83	56	87	65	43	14	41	1.4
DALLAS (WASTE WATER) 451310056H01 1020 SARGENT RD., WASTE-WATER TREAT MENT PLANT COUNTY DALLAS	TSP	01/12/83	12/26/83	55	85	82	54	15	52	1.3
DALLAS (BOYS CLUB, PB SS) 451310057F01 DALLAS BOYS CLUB, 3004 NO. WEST MORELA NO, ROOF COUNTY DALLAS	TSP	01/06/83	12/29/83	116 * 115	119 119	107 106	54 54	20 20	50 50	1.5 1.5

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TEXAS AIR SURVEILLANCE REPORT  
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 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 08			START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
DALLAS (B.T. JOHNSON, PB SS)	TSP		01/06/83	12/05/83	109	123	113	56	20	52	1.5
451310058F01					* 108	123	95	55	19	51	1.5
B.T. JOHNSON, 3315 TORONTO ST.											
COUNTY DALLAS											
DALLAS (LONE STAR, PB SS)	TSP		01/06/83	12/29/83	118	109	101	45	17	42	1.5
451310059F01					* 117	109	91	45	17	42	1.5
LONE STAR BUSINESS PK. (LOT), F. OF 31 11 COMMENCE DR.											
COUNTY DALLAS											
DALLAS (PONTIAC ST, PB SS)	TSP		01/06/83	12/29/83	112	105	101	51	20	47	1.5
451310060F01					* 111	105	99	50	19	46	1.5
PONTIAC ST. & SARGENT RD.											
COUNTY DALLAS											
DALLAS (CITY PB SITE)	TSP		01/06/83	12/26/83	50	99	85	56	18	53	1.5
451310061H01											
3434 BICKERS, EARHART ELEM. SCH.											
COUNTY DALLAS											
DALLAS (MONARCH PAPER, PB SS)	TSP		01/06/83	12/29/83	118	111	103	47	18	43	1.5
451310063F01					* 117	111	89	46	18	43	1.5
2310 ST. GERMAIN, ON ROOF OF MONARCH PAPER CO.											
COUNTY DALLAS											

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 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 08		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
DALLAS(SARGENT, PB SS)	TSP	10/27/83	12/29/83	22	132	97	54	29	47	1.7
451310064F01				* 21	132	97	52	29	45	1.7
1350 SARGENT ROAD										
COUNTY DALLAS										
DALLAS(RECTOR, PB SS)	TSP	10/21/83	12/29/83	22	153	80	45	30	30	1.8
451310065F01										
2828 RECTOR STREET										
COUNTY DALLAS										
DALLAS(NOLEN, PB SS)	TSP	10/21/83	12/29/83	23	86	67	43	18	38	1.6
451310066F01										
1104 NOLEN STREET										
COUNTY DALLAS										
DENTON	TSP	01/06/83	08/04/83	34	93	87	60	18	57	1.4
451410001F01				* 32	93	83	58	17	56	1.4
215 E MCKINNEY AVE, ROOF NEW CITY H										
ALL BLDG.										
COUNTY DENTON										
MIDLOTHIAN (ELLIS COUNTY)	TSP	01/06/83	12/26/83	59	130	123	75	27	69	1.6
451690001F01				* 58	130	123	75	27	69	1.6
235 NO. 3TH ST.(ROOF: CITY HALL/FS)										
COUNTY ELLIS										

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TEXAS AIR SURVEILLANCE REPORT  
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 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 08		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HTGH	ARITH MEAN	AFITH STD DEV	GEO MEAN	GEO STD DEV
FORT WORTH (CAMS 13)	TSP	01/05/83	12/14/83	53	124	85	52	18	49	1.4
451880002F01				* 51	124	85	52	18	49	1.4
3317 ROSS AVE. MEACHAM FIELD (LONG A V. & 34TH ST.) COUNTY TARRANT										
FORT WORTH (CAMS 16)	TSP	01/05/83	12/26/83	56	108	102	69	21	64	1.5
451880003F01										
100 N PECAN BETWEEN BELKNAP AND WEA THERFORD COUNTY TARRANT										
FORT WORTH (WORTH HGTS SCH.)	TSP	01/05/83	12/26/83	58	105	96	58	17	56	1.4
451880023F01										
519 E. BUTLER, FT. WORTH HGTS ELEM. S CH. NEAR 135 COUNTY TARRANT										
FT. WORTH (CITY 4)	TSP	01/06/83	12/26/83	57	99	96	59	19	55	1.5
451880024H02				* 56	99	87	58	19	55	1.5
3100 AZLE AVENUE AT ROBINSON, FIRE STATION COUNTY TARRANT										
FT. WORTH (CITY 17)	TSP	01/12/83	12/26/83	48	118	113	57	21	53	1.5
451880025H01				* 46	118	113	56	21	52	1.5
3300 CHERRY LANE AT ELIZABETH COUNTY TARRANT										

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REGION 08		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
FT. WORTH (TEXAS WESLEYAN)	TSP	02/05/83	12/26/83	52	92	90	57	19	53	1.5
451880026H01 3200 E ROSEDALE (ADDRESS OF TEXAS WESLEYAN COLL)-NEAR WESLEYAN & AVE B COUNTY TARRANT										
FT. WORTH (SITE 18E)	TSP	01/06/83	11/20/83	49	90	86	57	16	54	1.4
451880060H01 5933 GEDDES COUNTY TARRANT										
FT. WORTH (SITE 18E)				* 47	90	86	56	16	53	1.4
FORT WORTH (SITE 5E)	TSP	01/06/83	03/07/83	10	73	63	56	11	55	1.2
451880061H01 2911 SCHWARTZ FLD AT 29TH. COUNTY TARRANT										
FT. WORTH (CITY SITE)	TSP	03/25/83	12/26/83	44	111	108	70	24	65	1.5
451880062H01 1701 NE 36TH ST., DIAMOND HILL RECREATION CENTER COUNTY TARRANT										
FT. WORTH (CITY SITE)				* 43	108	107	69	24	64	1.5
FORT WORTH (SITE 16E)	TSP	01/06/83	12/26/83	52	135	108	59	22	55	1.5
451880068H01 1800 UNIVERSITY DRIVE, ROOF, AT HARLEY COUNTY TARRANT										
FORT WORTH (SITE 16E)				* 51	135	108	59	22	54	1.5

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REGION 08		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
FORT WORTH (SITE 14E) 451880070H01 212 EAST FELIX AT VERMONT COUNTY TARRANT										
	TSP	01/06/83	12/26/83	55	134	119	75	25	70	1.5
GARLAND 452000002F01 SCHOOL ADMINISTRATION BLDG - STADIUM DR AT NORTH GLENBROOK COUNTY DALLAS										
	TSP	01/06/83	12/14/83	53	130	118	62	23	58	1.5
				* 52	130	118	61	23	57	1.5
GARLAND(PB SS) 452000003F01 SOUTHWEST PROPERTY LINE OF GLOBE UNION BATTERY CORP. ON SHILOH COUNTY DALLAS										
	TSP	01/06/83	03/31/83	15	104	66	49	22	43	1.6
GARLAND(PB SS) 452000004F01 NORTHWEST OF PROPERTY LINE OF GLOBE UNION BATTERY CORP. ON SHILOH COUNTY DALLAS										
	TSP	01/06/83	03/31/83	15	98	90	55	21	52	1.5
				* 14	98	90	54	20	50	1.5
GARLAND(PB SS) 452000005F01 NORTHEAST OF PROPERTY LINE OF GLOBE UNION BATTERY CORP. ON SHILOH COUNTY DALLAS										
	TSP	01/06/83	03/31/83	15	78	67	49	15	47	1.4

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PARTICULATE DATA  
CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 08		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
GRAND PRAIRIE 452130002F01 321 W. MAIN ST., CENTRAL FIRE STATION, AT NW 4TH. ST. COUNTY DALLAS	TSP	01/06/83	07/29/83	31	85	84	57	14	56	1.3
IRVING 452670001F01 3900 NORTHGATE DR - THOMAS HALEY ELEMENTARY SCHOOL COUNTY DALLAS	TSP	01/06/83	07/23/83	18	112	78	57	20	54	1.4
IRVING (SPECIAL) 452670002F01 STEPHEN F. AUSTIN JR HIGH, 825 E. UNION BOWER AT NURSERY COUNTY DALLAS	TSP	01/06/83	12/26/83	52 * 50	101 101	100 100	59 58	22 21	55 54	1.5 1.5
CLEBURNE (STATE PARK) 452790001F01 CLEBURNE STATE PARK, ROOF RONSEN BLDG. COUNTY JOHNSON	TSP	01/06/83	12/26/83	57 * 55	181 181	137 134	52 50	34 31	43 42	1.9 1.9
CHICO(WISE COUNTY) 455640001F01 CHICO HIGH SCHOOL, ON ROOF; S. HOBEY ST. COUNTY WISE	TSP	02/05/83	12/26/83	52 * 51	135 135	129 129	65 64	31 30	57 56	1.8 1.8

\* NO DUSTSTORM DATA ARE INCLUDED















TEXAS AIR SURVEILLANCE REPORT  
 PARTICULATE DATA  
 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 09		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
SAN ANTONIO (FT. SAM HOUSTON) 451866002G01 FT. SAM HOUSTON, 1900 BLK WINANS RD. NEAR MARS RADIO STATION COUNTY BEXAR	TSP	01/06/83	12/26/83	57	109	81	43	17	40	1.5
NEW BRAUNFELS (CIVIC CENTER) 453850001F01 CIVIC CENTER, 380 S. SEGUIN COUNTY COMAL	TSP	01/06/83	02/23/83	9	86	76	63	15	62	1.3
NEW BRAUNFELS (WATER DEPT) 453850002F01 WATER WORKS, 1100 N. CENTRAL COUNTY COMAL	TSP	01/06/83	12/26/83	60	107	101	56	21	52	1.5
SAN ANTONIO (SITE 31) 454570022G02 INTERNATIONAL AIRPORT 139 AIRPORT COUNTY BEXAR	TSP	01/06/83	12/26/83	60	150	135	73	25	69	1.4
SAN ANTONIO (TEX. CULTURE) 454570034F01 900 BLK E DURANGO INST. OF TEXAS CU LTURE COUNTY BEXAR	TSP	01/12/83	12/26/83	59	131	116	63	21	59	1.4

\* NO DUSTSTORM DATA ARE INCLUDED



TEXAS AIR SURVEILLANCE REPORT  
 PARTICULATE DATA  
 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 09		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
SAN ANTONIO (TEXAS CULTJRE)	TSP	01/06/83	12/26/83	60	131	117	64	21	61	1.4
454570034601 900 BLK DURANGO										
COUNTY BEXAR										
SAN ANTONIO, NORTH (CAMS 7)	TSP	01/06/83	12/26/83	60	108	100	52	18	49	1.4
454570036F01 * 59 108 100 51 17 49 1.4										
DELLVIEW PARK, 522 PILGRIM DR. AT P ANDA DR.										
COUNTY BEXAR										
SAN ANTONIO (DPS)	TSP	01/06/83	12/26/83	60	100	88	48	16	46	1.4
454570040601 DEPT OF PUBLIC SAFETY; 6502 S NEW R RAUNFELS										
COUNTY BEXAR										
SAN ANTONIO (EAST KELLY)	TSP	01/06/83	12/26/83	60	116	111	64	20	61	1.4
454570042601 BLDG #3810, EASTERN ROAD, EAST KELL Y AFB										
COUNTY BEXAR										
SAN ANTONIO (FOX RUN)	TSP	01/06/83	12/26/83	58	142	101	47	22	43	1.5
454570045601 * 57 142 101 47 22 42 1.5										
KINGS MOUNTAIN AT MARTINS FERRY										
COUNTY BEXAR										

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TEXAS AIR SURVEILLANCE REPORT  
 PARTICULATE DATA  
 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 09			START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
SAN ANTONIO (MISSION ESPADA) 454570047G01 10040 ESPADA RD. AT CAMINO COAHUILT ECA: NATL HISTORIC PK COUNTY BEXAR	TSP		01/06/83	05/12/83	22	96	79	54	16	51	1.4
SAN ANTONIO(SW RESEARCH) 454570048G01 6220 CULEBRA ROAD COUNTY BEXAR	TSP		01/30/83	12/26/83	56	100	80	55	16	52	1.4
PIEDRAS NEGRAS 3A 1.1 456000001F01 HEALTH DEPT, PADRE DE LAS COSAS, CO LON ST. COUNTY BEXAR	TSP		01/12/83	12/20/83	32	364	266	120	71	104	1.7
ACUNA 456000006F01 ACUNA HEALTH DEPT., GENERAL CEPEDA OTE #295 COUNTY BEXAR	TSP		01/18/83	11/20/83	13	365	251	181	67	172	1.4
DEL RIO 456000015F01 CENTRAL FIRE STATION, LOSOYA AND PULLIAM STS. COUNTY VAL VERDE	TSP		01/24/83	12/14/83	42	125	115	59	25	53	1.7

\* NO DUSTSTORM DATA ARE INCLUDED



TEXAS AIR SURVEILLANCE REPORT  
 PARTICULATE DATA  
 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 09		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
EAGLE PASS 456000019F01 MUNICIPAL BUILDING, 101 SOUTH MONROE (CITY HALL) COUNTY MAVERICK	TSP	01/30/83	12/26/83	31	125	106	69	22	65	1.4











TEXAS AIR SURVEILLANCE REPORT  
 PARTICULATE DATA  
 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 10		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
BEAUMONT (HEALTH DEPT.) 450330001F01 CITY HEALTH DEPT ROOF 950 WASHINGTON BLVD COUNTY JEFFERSON	TSP	01/06/83	12/26/83	33	101	86	59	18	55	1.5
BEAUMONT, DOWNTOWN (LAMAR C-2) 450330009F01 GEORGIA AT CUNNINGHAM-LAMAR UNIVERSITY CAMPUS COUNTY JEFFERSON	TSP	01/18/83	12/26/83	40	161	93	65	22	62	1.4
NACOGDOCHES 453790002F01 FIRE STATION, 408 STALLINGS DR. S. W. COUNTY NACOGDOCHES	TSP	01/06/83	07/23/83	15	70	69	52	12	51	1.3
PORT ARTHUR 454190009F01 HWY 287 AT 32ND STREET, FIRE STATION #6 COUNTY JEFFERSON	TSP	01/06/83	12/14/83	32	99	93	47	21	43	1.6
PORT ARTHUR NORTH (CAMS 29) 454190010F01 4401 FERDALE, TYFELL SCHOOL COUNTY JEFFERSON	TSP	01/06/83	07/29/83	27	72	64	47	11	46	1.3

\* NO DUSTSTORM DATA ARE INCLUDED



TEXAS AIR SURVEILLANCE REPORT  
PARTICULATE DATA  
CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 10			START	END	NO. OF	MAX	SEC	ARITH	ARITH	GEO	GEO
			DATE	DATE	SAMPLES	24	HOUR	MEAN	STD	MEAN	STD
									DEV		DEV
	PORT ARTHUR WEST (CAMS 28)	TSP	01/06/83	12/08/83	42	87	72	52	14	50	1.4
	454190011F01										
	800 EL VISTA RD(53RD ST.); WHEATLEY										
	SCHOOL										
	COUNTY JEFFERSON										

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TEXAS AIR SURVEILLANCE REPORT  
 PARTICULATE DATA  
 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 11			START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
EL PASO (HEALTH DEPT.)	TSP		01/06/83	12/26/83	52	190	177	94	37	87	1.5
451700002F01		*			50	190	177	91	36	85	1.5
ROOF HEALTH DEPT. BLDG. 222 SO. CAM PBELL ST. COUNTY EL PASO											
EL PASO (HEALTH DEPT)	TSP		01/06/83	12/29/83	82	256	242	114	52	103	1.6
451700002G01		*			77	256	229	107	45	98	1.5
222 SO. CAMPBELL, HEALTH DEPT COUNTY EL PASO											
EL PASO (SHORTY LANE)	TSP		01/06/83	12/14/83	51	183	180	76	46	64	1.8
451700003G01		*			45	129	127	63	31	56	1.7
FIRE STATION AT 115 SHORTY LANE COUNTY EL PASO											
EL PASO (CORONADO)	TSP		01/06/83	12/29/83	79	190	180	55	35	46	1.8
451700007G01		*			73	147	128	48	25	43	1.6
6500 N. MESA, CORONADO FIRE STATION COUNTY EL PASO											
EL PASO (NORTHEAST)	TSP		01/06/83	12/29/83	75	165	123	49	27	42	1.7
451700010G01		*			70	108	93	44	20	39	1.7
5587 TRANS MOUNTAIN, NORTHEAST CLIN IC COUNTY EL PASO											

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TEXAS AIR SURVEILLANCE REPORT  
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 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 11		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
EL PASO (AIRPORT)	TSP	01/12/83	12/26/83	56	203	172	64	39	55	1.7
451700011G01	*			49	112	89	51	19	48	1.5
6795 CONVAIR RD., AIRPORT										
COUNTY EL PASO										
EL PASO (TIGUA)	TSP	01/06/83	12/26/83	59	340	252	123	61	108	1.7
451700015G01	*			55	249	223	113	50	102	1.6
TIGUA CLINIC, 7862 SAN JOSE RD. AT WENDA MAY										
COUNTY EL PASO										
EL PASO (SAN JUAN)	TSP	01/06/83	12/26/83	60	156	142	70	32	64	1.6
451700016F01	*			54	138	120	63	24	59	1.5
6292 TROWBRIDGE										
COUNTY EL PASO										
EL PASO (ANIMAL CONTROL)	TSP	01/06/83	12/29/83	74	338	249	115	61	100	1.7
451700018G01	*			71	338	249	111	59	97	1.7
211 SHELTER PLACE, ANIMAL CONTROL										
COUNTY EL PASO										
EL PASO (PERSHING)	TSP	01/06/83	12/14/83	57	179	157	76	35	68	1.6
451700019G01	*			53	157	146	71	29	65	1.6
PERSHING FIRE STATION 3200 PERSHING										
COUNTY EL PASO										

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TEXAS AIR SURVEILLANCE REPORT  
PARTICULATE DATA  
CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 11		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
EL PASO (HIGHLAND)	TSP	01/06/83	12/29/83	74	168	142	55	30	47	1.8
451700024G01				* 70	136	122	51	24	45	1.8
HIGHLAND ELEMENTARY SCHOOL 2300 SAN DIEGO COUNTY EL PASO										
EL PASO (ZACK WHITE)	TSP	01/06/83	12/29/83	70	219	199	72	44	59	2.0
451700025G01				* 65	163	146	65	35	54	1.9
ZACK WHITE SCHOOL 4256 ROXBURY COUNTY EL PASO										
EL PASO, DOWNTOWN (CAMS-6)	TSP	01/06/83	12/29/83	76	278	272	120	55	108	1.6
451700027F01				* 72	278	272	115	53	104	1.6
500 N. CAMPBELL COUNTY EL PASO										
EL PASO (IVANHOE)	TSP	01/06/83	12/29/83	81	206	182	65	39	56	1.7
451700029G01				* 75	165	144	57	28	51	1.6
10832 IVANHOE AT LEE TREVINO COUNTY EL PASO										
EL PASO (YSLETA CLINIC)	TSP	01/06/83	12/29/83	82	284	255	114	57	100	1.7
451700030G01				* 77	284	254	107	52	95	1.7
SOCORRO RD. AT LONE STAR ST., YSLETA CLINIC, 9060 SOCORRO RD. COUNTY EL PASO										

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TEXAS AIR SURVEILLANCE REPORT  
 PARTICULATE DATA  
 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 11		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
EL PASO (IBWC)	TSP	01/06/83	12/29/83	80	422	411	134	91	111	1.9
451700031602				* 77	298	268	124	64	106	1.9
2616 PAISANO-IRRIGATION GATE LOCK A										
T IBWC										
COUNTY EL PASO										
EL PASO (KERN FIRE STATION)	TSP	01/06/83	12/29/83	80	376	229	80	53	70	1.7
451700033602				* 77	376	229	76	49	67	1.6
301 E. ROBINSON, KERN FIRE STATION										
COUNTY EL PASO										
EL PASO, FAP WEST-LINCOLN(CC-30)	TSP	01/06/83	12/26/83	50	263	159	78	47	65	1.9
451700036F01				* 47	263	150	73	45	62	1.9
500 MULBERRY										
COUNTY EL PASO										
EL PASO UTEP (CAMS 12)	TSP	01/06/83	12/26/83	73	241	168	83	39	76	1.6
451700037F01				* 68	241	168	79	36	72	1.5
U.T.E.P. 125 RIM ROAD										
COUNTY EL PASO										
EL PASO	TSP	01/06/83	12/29/83	77	230	213	94	48	81	1.8
451700038601				* 71	213	197	86	40	76	1.7
RIVERSIDE HIGH (EAST)										
COUNTY EL PASO										

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TEXAS AIR SURVEILLANCE REPORT  
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 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 11		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	AP1TH MEAN	AP1TH STD DEV	GEO MEAN	GEO STD DEV
EL PASO (STA. TERESITA CHAPEL)	TSP	10/03/83	12/29/83	28	213	130	58	42	48	1.9
451700039F01				* 27	213	123	56	40	46	1.8
3401 ZAPAL AVENUE, SANTA TERESITA C HURCH COUNTY EL PASO										
EL PASO (MESITA ELEM. SCH.)	TSP	10/03/83	12/29/83	30	188	115	61	36	52	1.7
451700040F01				* 29	188	115	59	36	51	1.7
500 ALETHEA PARK, MESITA ELEMENTARY SCHOOL COUNTY EL PASO										
EL PASO (VILAS ELEM. SCH.)	TSP	10/03/83	12/29/83	30	344	271	123	79	101	1.9
451700041F01				* 29	344	271	119	77	98	1.9
220 LAWTON STREET, VILAS ELEMENTARY SCHOOL COUNTY EL PASO										
EL PASO (KING'S X)	TSP	10/03/83	12/29/83	28	158	100	43	30	37	1.8
451700042F01				* 27	158	100	42	30	36	1.7
4185 KRUPP DRIVE, NEAR KING'S X BAR COUNTY EL PASO										

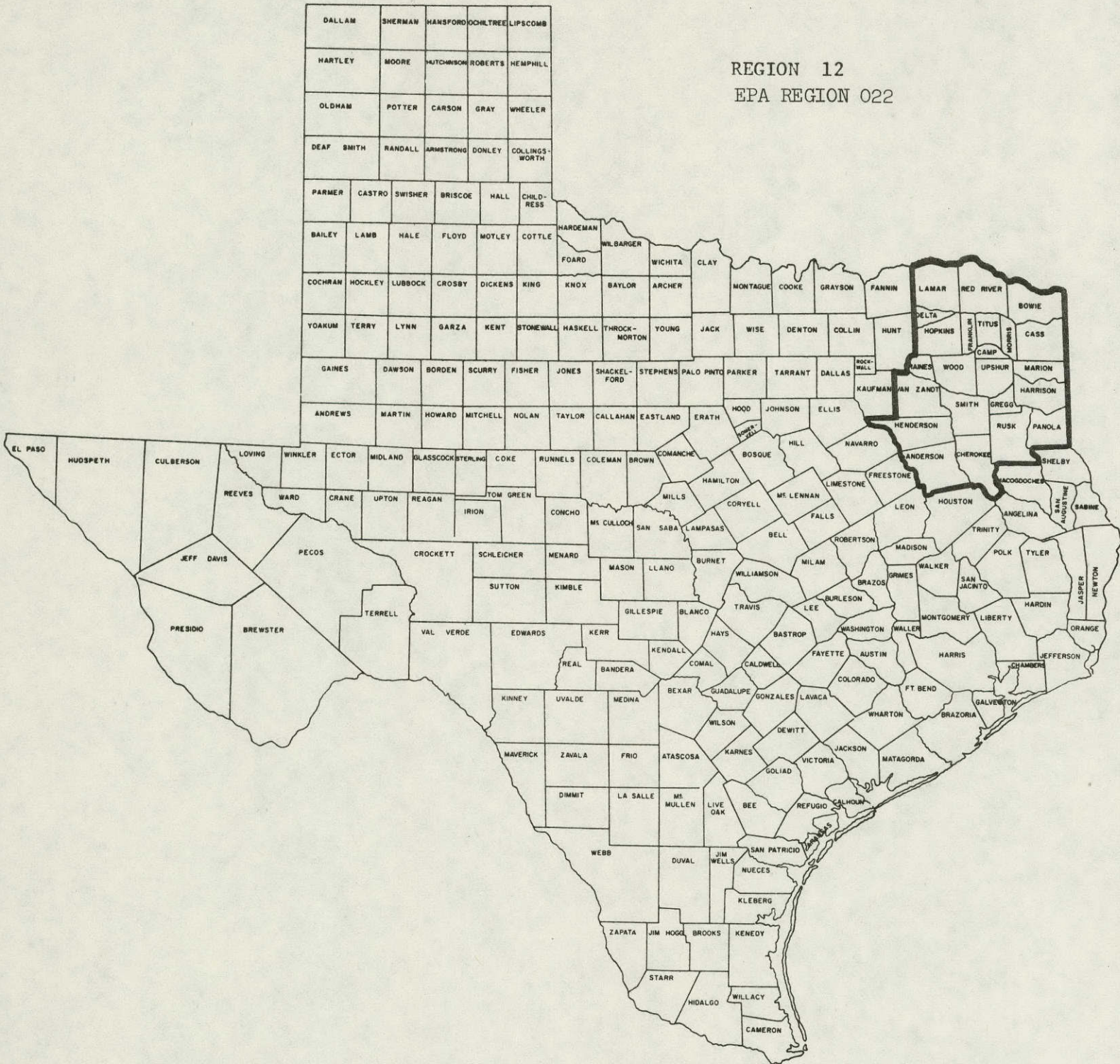
\* NO DUSTSTORM DATA ARE INCLUDED







REGION 12  
EPA REGION 022









TEXAS AIR SURVEILLANCE REPORT  
 PARTICULATE DATA  
 CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

REGION 12		START DATE	END DATE	NO. OF SAMPLES	MAX 24 HOUR	SEC HIGH	ARITH MEAN	ARITH STD DEV	GEO MEAN	GEO STD DEV
LONGVIEW (CAMS 19) 452180001F03 GREGG COUNTY AIRPORT	TSP	01/06/83	12/26/83	56 * 55	77 77	73 73	40 39	15 15	36 36	1.6 1.6
COUNTY GREGG										
LONE STAR 453740001F01 NEAR THE LONE STAR STEEL WORKS	TSP	01/06/83	04/30/83	20 * 19	100 78	78 78	46 43	23 20	41 39	1.7 1.7
COUNTY MORRIS										
LONE STAR (CITY HALL) 453740002F01 LONE STAR CITY HALL, INDUSTRIAL BLV D. & JEFFERSON COUNTY MORRIS	TSP	07/05/83	12/26/83	27	100	78	49	21	44	1.6
TEXARKANA 455160003F01 BOWIE CO HEALTH UNIT, 12TH SPRUCE, 75502 COUNTY BOWIE	TSP	01/06/83	12/26/83	54 * 53	83 83	81 81	51 51	20 20	45 45	1.7 1.7
TYLER 455240002F01 ROOF FIRE STATION, 218 ELM ST AT SQ UTR FANNING COUNTY SMITH	TSP	01/06/83	12/26/83	47 * 46	143 143	90 90	53 52	22 22	49 48	1.5 1.5











