

Appendix J

Particulate Matter of 2.5 Micrometers or Less Monitoring Requirements

Texas Commission on Environmental Quality
2018 Annual Monitoring Network Plan



Appendix J: Particulate Matter of 2.5 Micrometers or Less Monitoring Requirements

Table 1: Particulate Matter of 2.5 Micrometers or Less Monitoring Requirements

Metropolitan Statistical Area	2017 Population Estimates ¹	2015-2017 DV ($\mu\text{g}/\text{m}^3$) Annual (for Area)	2015-2017 DV ($\mu\text{g}/\text{m}^3$) 24-Hour (for Area)	Percent of NAAQS Annual ² (for Area)	Percent of NAAQS 24-Hour ³ (for Area)	Required FRM/FEM Monitors	Required Near Road Monitors	Required NCore Monitors	Total Required Monitors	Total Existing Monitors ⁴
Dallas-Fort Worth-Arlington	7,399,662	8.9	18	74	51	2	1	3	6	14
Houston-The Woodlands-Sugar Land	6,892,427	10.8	23	90	66	3	1	3	7	16
San Antonio-New Braunfels	2,473,974	8.9	22	74	63	2	1	0	3	7
Austin-Round Rock	2,115,827	9.6	20	80	57	2	1	0	3	4
McAllen-Edinburg-Mission	860,661	10.2	26	85	74	2	0	0	2	2
El Paso	844,818	8.9	23	74	66	1	0	3	4	7
Corpus Christi	454,008	9.3	24	78	69	0	0	0	0	4
Brownsville-Harlingen	423,725	10.3	24	86	69	1	0	0	1	2
Beaumont-Port Arthur ⁶	412,437	N/A	N/A	N/A	N/A	0	0	0	0	3
Lubbock	316,983	N/A	N/A	N/A	N/A	0	0	0	0	1
Laredo	274,794	N/A	N/A	N/A	N/A	0	0	0	0	1
Waco	268,696	N/A	N/A	N/A	N/A	0	0	0	0	1
Amarillo	264,925	N/A	N/A	N/A	N/A	0	0	0	0	1
Odessa	157,087	N/A	N/A	N/A	N/A	0	0	0	0	1
Texarkana	150,355	8.7	18	73	51	0	0	0	0	2
Marshall ⁵	66,661	8.6	17	72	49	0	0	0	0	3
Eagle Pass ⁵	58,216	N/A	N/A	N/A	N/A	0	0	0	0	1
Corsicana ⁵	48,701	N/A	N/A	N/A	N/A	0	0	0	0	1
Kingsville ⁵	31,505	N/A	N/A	N/A	N/A	0	0	0	0	1
Big Bend National Park ^{6,7}	N/A	6.6	14	55	40	0	0	0	0	1
Totals*						13	4	9	26	73

*Totals do not include collocated monitors.

¹United States Census Bureau population estimates as of July 1, 2017.

²Current $\text{PM}_{2.5}$ Annual NAAQS is 12 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

³Current $\text{PM}_{2.5}$ 24-hour NAAQS is 35 $\mu\text{g}/\text{m}^3$.

⁴Individual monitors may fulfill one or more requirements including: State or Local Air Monitoring Stations (SLAMS), National Core (NCore), Near-road, Regional Background, Regional Transport and Regional Haze requirements.

⁵Area is classified as a micropolitan area, and is not subject to SLAMS requirements.

⁶Annual values do not meet completeness criteria; monitors deployed in 2017.

⁷Area not classified as a metropolitan or micropolitan statistical area.

$\mu\text{g}/\text{m}^3$ - micrograms per cubic meter

DV - Design Value

FEM - federal equivalent method

FRM - federal reference method

N/A - not applicable

NAAQS - National Ambient Air Quality Standards

This list does not include Metropolitan Statistical Areas with no requirement and no monitors.

$\text{PM}_{10-2.5}$ NCore requirements are not included in particulate matter counts.

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Table 2: Particulate Matter of 2.5 Micrometers or Less Monitor Locations and Method Codes

Metropolitan Statistical Area	2017 Population Estimates ¹	Site Name	Method Code(s)	2015-2017 DV ($\mu\text{g}/\text{m}^3$) Annual	2015-2017 DV ($\mu\text{g}/\text{m}^3$) 24-Hour	Percent of NAAQS Annual ²	Percent of NAAQS 24-Hour ³	Existing FRM/FEM Monitors ⁴	Existing Near-Road Monitors	Existing NCore Monitors	Existing Speciation Monitors	Existing Non-Regulatory Monitors	Total Existing Monitors ⁴
Dallas-Fort Worth-Arlington	7,399,662			8.9	18	74	51						14
		Arlington Municipal Airport	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	
		Convention Center	145	8.9	18	74	51	1	0	0	0	0	
		Dallas Hinton (collocated pair)***	145, 145, 810, 811, 812, 838	8.6	18	72	51	0	0	2	1	0	
		Denton Airport South	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	
		Fort Worth California Parkway North	145	8.7	18	73	51	0	1	0	0	0	
		Fort Worth Northwest	145	8.4	17	70	49	1	0	0	0	0	
		Haws Athletic Center	145, 702*	8.7	17	73	49	1	0	0	0	1	
		Kaufman	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	
		Midlothian OFW	145, 702*, 826, 831, 838, 839, 840, 841, 842, 846, 849	8.7	18	73	51	1	0	0	1	1	
Houston-The Woodlands-Sugar Land	6,892,427			10.8	23	90	66						16
		Baytown	209	9.4	22	78	63	1	0	0	0	0	
		Clinton (collocated pair)	145, 145, 702*	10.7	22	89	63	1	0	0	0	1	
		Conroe Relocated	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	
		Galveston 99th Street	145, 702*	6.7	22	56	63	1	0	0	0	1	
		Houston Aldine	145, 702*, 826, 831, 838, 839, 840, 841, 842, 846, 849	10.0	22	83	63	1	0	0	1	1	
		Houston Deer Park #2***	145, 702*, 810, 811, 812, 838	8.6	20	72	57	0	0	2	1	1	
		Houston East	209	10.6	26	88	74	1	0	0	0	0	
		Houston North Loop	145	10.8	23	90	66	0	1	0	0	0	
		Seabrook Friendship Park	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	
San Antonio-New Braunfels	2,473,974			8.9	22	74	63						7
		Calaveras Lake	145, 702*	8.2	20	68	57	1	0	0	0	1	
		Old Hwy 90	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	
		Palo Alto	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	
		San Antonio Interstate 35	145	8.9	22	74	63	0	1	0	0	0	
		San Antonio Northwest	145, 702*	8.4	20	70	57	1	0	0	0	1	

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Austin-Round Rock	2,115,827			9.6	20	80	57						4
		Austin North Interstate 35 ⁴	145	9.3	23	78	66	0	1	0	0	0	
		Austin Northwest	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	
		Austin Webberville Rd (collocated pair)	209, 145	9.6	20	80	57	1	0	0	0	0	
		Fayette County	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	
McAllen-Edinburg-Mission	860,661			10.2	26	85	74						2
		Edinburg East Freddy Gonzalez Drive	145	8.7	22	73	63	1	0	0	0	0	
		Mission	209	10.2	26	85	74	1	0	0	0	0	
El Paso	844,818			8.9	23	74	66						7
		Ascarate Park SE	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	
		El Paso Chamizal (collocated pair)***	145, 145, 810, 811, 812, 838	8.9	23	74	66	0	0	2	1	0	
		El Paso UTEP	145, 702*	7.2	16	60	46	1	0	0	0	1	
		Socorro Hueco	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	
Corpus Christi	454,008			9.3	24	78	69						4
		Corpus Christi Huisache (collocated pair)	209, 209	9.3	24	78	69	1	0	0	0	0	
		Dona Park	145, 702*, 826, 831, 838, 839, 840, 841, 842, 846, 849	8.4	22	70	63	1	0	0	1	1	
Brownsville-Harlingen	423,725			10.3	24	86	69						2
		Brownsville	209	10.3	24	86	69	1	0	0	0	0	
		Isla Blanca Park	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	
Beaumont-Port Arthur	412,437			N/A	N/A	N/A	N/A						3
		Hamshire ⁶	209	8.1	23	68	66	1	0	0	0	0	
		Port Arthur Memorial School ⁶	209	9.9	20	83	57	1	0	0	0	0	
		SETRPC 42 Mauriceville ⁶	209	10.2	24	85	69	1	0	0	0	0	
Lubbock	316,983			N/A	N/A	N/A	N/A						1
		Lubbock 12th Street	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	
Laredo	274,794			N/A	N/A	N/A	N/A						1
		World Trade Bridge	209	N/A	N/A	N/A	N/A	1	0	0	0	0	
Waco	268,696			N/A	N/A	N/A	N/A						1
		Waco Mazanec	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	

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Amarillo	264,925			N/A	N/A	N/A	N/A						1
		Amarillo A&M	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	
Odessa	157,087			N/A	N/A	N/A	N/A						1
		Odessa Gonzales	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	
Texarkana	150,355			8.7	18	73	51						2
		Texarkana New Boston	145, 702*	8.7	18	73	51	1	0	0	0	1	
Marshall⁵	66,661			8.6	17	72	49						3
		Karnack***	145, 702*, 810, 811, 812, 838	8.6	17	72	49	1	0	0	1	1	
Eagle Pass⁵	58,216			N/A	N/A	N/A	N/A						1
		Eagle Pass	209	N/A	N/A	N/A	N/A	1	0	0	0	0	
Corsicana⁵	48,701			N/A	N/A	N/A	N/A						1
		Corsicana Airport	702*	N/A	N/A	N/A	N/A	0	0	0	0	1	
Kingsville⁵	31,505			N/A	N/A	N/A	N/A						1
		National Seashore	209	N/A	N/A	N/A	N/A	1	0	0	0	0	
Big Bend National Park^{6,7}	N/A			6.6	14	55	40						1
		Bravo Big Bend	209	6.6	14	55	40	1	0	0	0	0	
Totals**								27	4	6	7	29	73

*Method code 702 identifies a PM_{2.5} TEOM which is non-FEM/FRM (not NAAQS comparable)

**Totals do not include collocated monitors.

***Speciation monitor for NCore and/or Chemical Speciation Network requirements.

¹United States Census Bureau population estimates as of July 1, 2017.

²Current PM_{2.5} Annual NAAQS is 12 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

³Current PM_{2.5} 24-hour NAAQS is 35 $\mu\text{g}/\text{m}^3$.

⁴Individual monitors may fulfill one or more requirements.

⁵Area is classified as a micropolitan area, and is not subject to SLAMS requirements.

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