

APPENDIX D				County	CBSA	MSA	MicroSA	Ozone					
CBSA Name	CBSA Type	County Name	Population				Monitors May be Required Based on MSA Population?	2016-2017 Monitors	Design Value <85% of NAAQS? (59.5 ppb)	Urban Area with population >=50,000?	No. Required Monitors Based On Population	New Monitors Needed	
1	Akron, OH	Metropolitan Statistical Area	Portage	162,275				Yes	1	No	Yes	2	0
			Summit	541,968	704,243	704,243			1	No			
2	Ashland, OH	Micropolitan Statistical Area	Ashland	53,213	53,213		53,213						
3	Ashtabula, OH	Micropolitan Statistical Area	Ashtabula	98,632	98,632		98,632						
4	Athens, OH	Micropolitan Statistical Area	Athens	65,886	65,886		65,886						
5	Bellefontaine, OH	Micropolitan Statistical Area	Logan	45,386	45,386		45,386						
6	Bucyrus, OH	Micropolitan Statistical Area	Crawford	42,306	42,306		42,306						
7	Cambridge, OH	Micropolitan Statistical Area	Guernsey	39,258	39,258		39,258						
8	Canton-Massillon, OH	Metropolitan Statistical Area	Carroll	27,811				Yes	0		Yes	2	0
			Stark	375,165	402,976	402,976			3	No			
9	Celina, OH	Micropolitan Statistical Area	Mercer	40,968	40,968		40,968						
10	Chillicothe, OH	Micropolitan Statistical Area	Ross	77,170	77,170		77,170						
11	Cincinnati, OH-KY-IN	Metropolitan Statistical Area	Hamilton	807,598				Yes	3	No	Yes	2	0
			Butler	376,353					2	No			
			Warren	224,469					1	No			
			Brown	43,839					0				
			Clermont	201,973					1	No			
			Boone, KY	127,712									
			Campbell, KY	92,066									
			Bracken, KY	8,321									
			Gallatin, KY	8,636									
			Kenton, KY	165,012									
			Pendleton, KY	14,408									
			Grant, KY	24,757									
			Dearborn, IN	49,455									
	Union, IN	7,182											
	Ohio, IN	5,938	2,151,781	2,151,781									

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12	Cleveland-Elyria, OH	Metropolitan Statistical Area	Cuyahoga	1,255,921				Yes	4	No	Yes	2	0
			Lorain	305,147			1		No				
			Medina	176,395			1		No				
			Geauga	94,102			1		No				
			Lake	229,245	2,060,810	2,060,810	2		No				
13	Columbus, OH	Metropolitan Statistical Area	Franklin	1,251,722				Yes	3	No	Yes	2	0
			Madison	44,094			1		No				
			Pickaway	56,998			0						
			Delaware	193,013			1		No				
			Union	54,277			0						
			Fairfield	151,408			0						
			Hocking	28,491			0						
			Licking	170,570			1		No				
			Morrow	35,074			0						
			Perry	35,985	2,021,632	2,021,632	0						
14	Coshocton, OH	Micropolitan Statistical Area	Coshocton	36,569	36,569		36,569						
15	Dayton, OH	Metropolitan Statistical Area	Miami	104,224				Yes	1	No	Yes	2	0
			Greene	164,427			1		No				
			Montgomery	532,258	800,909	800,909	1		No				
16	Defiance, OH	Micropolitan Statistical Area	Defiance	38,352	38,352		38,352						
17	Findlay, OH	Micropolitan Statistical Area	Hancock	75,573	75,573		75,573						
18	Fremont, OH	Micropolitan Statistical Area	Sandusky	59,679	59,679		59,679						
19	Greenville, OH	Micropolitan Statistical Area	Darke	52,076	52,076		52,076						
20	Huntington-Ashland, WV-KY-OH	Metropolitan Statistical Area	Lawrence	61,109				Yes	2	No	Yes	2	0
			Boyd, KY	48,325									
			Greenup, KY	36,068									
			Cabell, WV	96,844									

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		Lincoln, WV	21,415										
		Putnam, WV	56,848										
		Wayne, WV	40,971	361,580	361,580								
21	Jackson, OH	Micropolitan Statistical Area	Jackson	32,596	32,596		32,596						
22	Lima, OH	Metropolitan Statistical Area	Allen	104,425	104,425	104,425		Yes	1	No	Yes	1	0
23	Mansfield, OH	Metropolitan Statistical Area	Richland	121,707	121,707	121,707		Yes	0		Yes	0	0
24	Marietta, OH	Micropolitan Statistical Area	Washington	61,112	61,112		61,112						
25	Marion, OH	Micropolitan Statistical Area	Marion	65,355	65,355		65,355						
26	Mount Vernon, OH	Micropolitan Statistical Area	Knox	61,061	61,061		61,061						
27	New Philadelphia-Dover, OH	Micropolitan Statistical Area	Tuscarawas	92,916	92,916		92,916						
28	Norwalk, OH	Micropolitan Statistical Area	Huron	58,469	58,469		58,469						
29	Point Pleasant, WV-OH	Micropolitan Statistical Area	Gallia	30,142									
		Mason, WV	27,037	57,179			57,179						
30	Port Clinton, OH	Micropolitan Statistical Area	Ottawa	40,877	40,877		40,877						
31	Portsmouth, OH	Micropolitan Statistical Area	Scioto	76,825	76,825		76,825						
32	Salem, OH	Micropolitan Statistical Area	Columbiana	104,806	104,806		104,806						
33	Sandusky, OH	Micropolitan Statistical Area	Erie	75,550	75,550		75,550						
34	Sidney, OH	Micropolitan Statistical Area	Shelby	48,901	48,901		48,901						
35	Springfield, OH	Metropolitan Statistical Area	Clark	135,959	135,959	135,959		Yes	2	No	Yes	1	0
36	Tiffin, OH	Micropolitan Statistical Area	Seneca	55,610	55,610		55,610						
37	Toledo, OH	Metropolitan Statistical Area	Fulton	42,537				Yes	0		Yes	2	0
		Lucas	433,689				3		No				
		Wood	129,730	605,956	605,956		1		No				
38	Urbana, OH	Micropolitan Statistical Area	Champaign	38,987	38,987		38,987						
39	Van Wert, OH	Micropolitan Statistical Area	Van Wert	28,562	28,562		28,562						
40	Wapakoneta, OH	Micropolitan Statistical Area	Auglaize	45,876	45,876		45,876						
41	Washington Court House, OH	Micropolitan Statistical Area	Fayette	28,679	28,679		28,679						

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42	Weirton-Steubenville, WV-OH	Metropolitan Statistical Area	Jefferson	67,347				Yes	1	No	Yes	1	0
			Brooke, WV	23,350									
			Hancock, WV	29,815	120,512	120,512							
43	Wheeling, WV-OH	Metropolitan Statistical Area	Belmont	69,154				Yes	0		Yes	0	0
			Marshall, WV	31,978									
			Ohio, WV	43,066	144,198	144,198							
44	Wilmington, OH	Micropolitan Statistical Area	Clinton	41,917	41,917		41,917						
45	Wooster, OH	Micropolitan Statistical Area	Wayne	116,063	116,063		116,063						
16	Youngstown-Warren-Boardman, OH-PA	Metropolitan Statistical Area	Mahoning	231,900				Yes	1	No	Yes	2	0
			Trumbull	203,751					2	No			
			Mercer, PA	114,234	549,885	549,885							
47	Zanesville, OH	Micropolitan Statistical Area	Muskingum	86,290	86,290		86,290						

	PM2.5 FRM (FEM comparable to NAAQS qualify)						PM2.5 Continuous			SO2								
	Monitors May be Required Based on MSA Population?	2016-2017 Monitors	Design Value <85% of NAAQS? (29.8 ug/m3 24-hr, 10.2 ug/m3 annual)	Urban Area with population >=50,0000?	No. Required Monitors Based On Population	New Monitors Needed	2016-2017 Monitors	No. Required (1/2 of PM2.5 FRM)	New Monitors Needed	2011 NEI SO2 (TPY)	CBSA Total SO2 (TPY)	PWEI (CBSA TPY x CBSA Population)	PWEI Value	Monitors Required Based on MSA Population?	No. Required Monitors Based On PWEI Value	No. of Qualifying* Monitors in CBSA	New Monitors Needed	
1	Yes	1	Yes*, Yes*	Yes	2	0	0	1	0	170.11	4,481.49	3,156,056,205	3,156.06	No				
		2	Yes, No				1			4,311.38								
2										55.44	55.44	2,950,327	2.95	No				
3										3,736.99	3,736.99	368,586,780	368.59	No				
4										1,300.82	1,300.82	85,705,731	85.71	No				
5										50.73	50.73	2,302,343	2.30	No				
6										55.43	55.43	2,345,107	2.35	No				
7										820.22	820.22	32,200,344	32.20	No				
8	Yes	0		Yes	1	0	0	1	0	72.24	639.23	257,596,210	257.60	No				
		2	Yes, No				1			567.00								
9										33.90	33.90	1,388,956	1.39	No				
10										19,775.27	19,775.27	1,526,057,770	1,526.06	No				
11	Yes	5	Yes, No	Yes	3	0	4	2	0	31,503.25	178,067.57	383,162,414,832	383,162.41	Yes	2		0	
		4 to 5**	Yes, No				2			5,792.89								2**
		0					1			114.94								3
		0					0			51.69								0
		0					1			109,009.32								0
										2,184.08								
										35.05								
										8.64								
										86.30								
										53.99								
										869.67								
										26.58								
										28,321.20								
										9.97								
				6.46														

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	Monitors May be Required Based on MSA Population?	2016-2017 Monitors	Design Value <85% of NAAQS? (29.8 ug/m3 24-hr, 10.2 ug/m3 annual)	Urban Area with population >=50,000?	No. Required Monitors Based On Population	New Monitors Needed	2016-2017 Monitors	No. Required (1/2 of PM2.5 FRM)	New Monitors Needed	2011 NEI SO2 (TPY)	CBSA Total SO2 (TPY)	PWEI (CBSA TPY x CBSA Population)	PWEI Value	Monitors Required Based on MSA Population?	No. Required Monitors Based On PWEI Value	No. of Qualifying* Monitors in CBSA	New Monitors Needed
12	Yes	6	Yes, No	Yes	3	0	1	2	0	6,888.00	92,011.21	189,617,622,942	189,617.62	Yes	2	4**	0
		1	Yes, Yes*				1			32,551.63						0	
		1	Yes*, Yes*				1			161.92						0	
		0					0			261.91						0	
		1	Yes, Yes				1			52,147.75						2	
13	Yes	3	Yes, Yes	Yes	3	0	2	2	0	492.01	2,666.14	5,389,950,939	5,389.95	Yes	1	1	0
		0					0			35.55						0	
		0					0			1,317.64						0	
		0					0			74.80						0	
		0					0			38.25						0	
		0					0			130.40						0	
		0					0			55.08						0	
		0					0			437.22						0	
		0					0			43.61						0	
		0					0			41.58						0	
14									9,538.11	9,538.11	348,798,969	348.80	No				
15	Yes	0		Yes	2	0	0	1	0	62.84	3,814.63	3,055,172,729	3,055.17	No			
		1	Yes, Yes				1			1,207.10							
		1	Yes*, Yes*				1			2,544.69							
16									70.84	70.84	2,717,005	2.72	No				
17									56.88	56.88	4,298,720	4.30	No				
18									1,589.58	1,589.58	94,864,418	94.86	No				
19									57.96	57.96	3,018,149	3.02	No				
20	Yes	1	Yes, Yes	Yes	1***	0	1	1	0	74.53	12,504.79	4,521,482,862	4,521.48	No			
										1,500.06							
										1,596.35							
										424.17							

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									39.22								
									8,780.79								
									89.66								
21									94.18	94.18	3,069,973	3.07	No				
22	Yes	1	Yes, Yes*	Yes	1	0	1	1	0	654.27	654.27	68,322,072	68.32	No			
23	Yes	0		Yes	0	0	0	0	0	287.45	287.45	34,984,802	34.98	No			
24										109,544.55	109,544.55	6,694,486,301	6,694.49	Yes	1	1***	0***
25										193.29	193.29	12,632,737	12.63	No			
26										51.25	51.25	3,129,283	3.13	No			
27										2,481.86	2,481.86	230,604,248	230.60	No			
28										58.42	58.42	3,415,609	3.42	No			
29										176,243.69							
										13,681.02							
30										804.23	804.23	32,874,570	32.87	No			
31										1,795.92	1,795.92	137,971,810	137.97	No			
32										173.47	173.47	18,180,724	18.18	No			
33										100.78	100.78	7,613,845	7.61	No			
34										315.31	315.31	15,418,760	15.42	No			
35	Yes	1	Yes, Yes	Yes	0	0	1	1	0	78.59	78.59	10,685,143	10.69	No			
36										5,138.62	5,138.62	285,758,818	285.76	No			
37	Yes	0		Yes	1	0	0	1	0	196.54	13,285.10	8,050,184,210	8,050.18	Yes	1	0	0
		3	Yes, Yes				1			12,715.29						1	
		0					0			373.27						0	
38										37.28	37.28	1,453,242	1.45	No			
39										834.67	834.67	23,839,768	23.84	No			
40										400.25	400.25	18,362,084	18.36	No			
41										46.25	46.25	1,326,475	1.33	No			

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42	Yes	2	No*, Yes*	Yes	1	0	1	0	29,630.92	30,806.31	3,712,530,501	3,712.53	No			
			888.39													
			287.00													
43	Yes	0		Yes	0	0	0	0	114.76	34,412.81	4,962,257,668	4,962.26	No			
			34,156.97													
			141.08													
44									42.83	42.83	1,795,430	1.80	No			
45									18,018.57	18,018.57	2,091,289,560	2,091.29	No			
16	Yes	2	Yes, No	Yes	2	0	1	0	1,481.00	9,325.01	5,127,682,977	5,127.68	Yes	1	1	0
		1	Yes*, Yes*						7,391.70						0	
									452.31							
47									264.01	264.01	22,781,619	22.78	No			
*insufficient data (assume >85%), **1 monitor "may" discontinue in 2017, ***would be 2 if any monitors in KY/WV were over design value, if that is the case then the area would still meet the requirement									*population exposure, highest concentration, source impacts, general background, or regional transport. SO2 monitors at NCore stations may satisfy minimum monitoring requirements if that monitor is located within a CBSA with minimally required monitors under this part. Any monitor that is sited outside of a CBSA with minimum monitoring requirements to assess the highest concentration resulting from the impact of significant sources or source categories existing within that CBSA shall be allowed to count towards minimum monitoring requirements for that CBSA., **includes 1 NCore, ***The SO2 monitor is located in adjacent Morgan County next to the border of Washington County. It was located there to monitor emissions from the Muskingum River Power Plant (whose emissions dominate the 2011 inventory for Washington County)							

	CO				NO2 (area-wide)			NO2 (near-road)			PM10*					
	Monitor May Be Required?	Near Road Site?	Current CO Monitor at Near Road Site?	New Monitors Needed	One Monitor May be Required Based on CBSA Population?	Current NO2 Area-Wide Monitor?	New Monitors Needed	One Monitor May be Required Based on CBSA Population?	Current NO2 Near-Road Monitor?	New Monitors Needed	Monitors May be Required Based on MSA Population?	2016-2017 Monitors	No. Required Monitors Based On Population	New Monitors Needed**		
1	No				No			No			Yes	0	1 to 2	0		
												0				
2	No				No			No								
3	No				No			No								
4	No				No			No								
5	No				No			No								
6	No				No			No								
7	No				No			No								
8	No				No			No			Yes	0	0 to 1	0		
												0				
9	No				No			No								
10	No				No			No								
11	Yes	Yes	1	0	Yes	1	0	Yes	1	0	Yes	3	2 to 4	0		
			0			0			0			0			0	3
			0			0			0			0			0	
			0			0			0			0			0	
			0			0			0			0			0	

	CO				NO2 (area-wide)			NO2 (near-road)			PM10*				
	Monitor May Be Required?	Near Road Site?	Current CO Monitor at Near Road Site?	New Monitors Needed	One Monitor May be Required Based on CBSA Population?	Current NO2 Area-Wide Monitor?	New Monitors Needed	One Monitor May be Required Based on CBSA Population?	Current NO2 Near-Road Monitor?	New Monitors Needed	Monitors May be Required Based on MSA Population?	2016-2017 Monitors	No. Required Monitors Based On Population	New Monitors Needed**	
12	Yes	Yes	1	0	Yes	2	0	Yes	1	0	Yes	5	2 to 4	0	
			0			0			0			0			1
			0			0			0			0			0
			0			0			0			0			0
			0			0			0			0			0
13	Yes	Yes	1	0.00	Yes	1	0	Yes	1	0	Yes	1	2 to 4	0	
			0			0			0			0			0
			0			0			0			0			0
			0			0			0			0			0
			0			0			0			0			0
			0			0			0			0			0
			0			0			0			0			0
			0			0			0			0			0
			0			0			0			0			0
			0			0			0			0			0
14	No				No			No							
15	No				No			No			Yes	0	1 to 2	0	
			1			1									
			1												
16	No				No			No							
17	No				No			No							
18	No				No			No							
19	No				No			No							
20	No				No			No			Yes	1	0 to 1	0	

	CO				NO2 (area-wide)			NO2 (near-road)			PM10*			
	Monitor May Be Required?	Near Road Site?	Current CO Monitor at Near Road Site?	New Monitors Needed	One Monitor May be Required Based on CBSA Population?	Current NO2 Area-Wide Monitor?	New Monitors Needed	One Monitor May be Required Based on CBSA Population?	Current NO2 Near-Road Monitor?	New Monitors Needed	Monitors May be Required Based on MSA Population?	2016-2017 Monitors	No. Required Monitors Based On Population	New Monitors Needed**
21	No				No			No						
22	No				No			No			Yes	0	0	0
23	No				No			No			Yes	0	0	0
24	No				No			No						
25	No				No			No						
26	No				No			No						
27	No				No			No						
28	No				No			No						
29	No				No			No						
30	No				No			No						
31	No				No			No						
32	No				No			No						
33	No				No			No						
34	No				No			No						
35	No				No			No			Yes	0	0	0
36	No				No			No						
37	No				No			No			Yes	0	1 to 2	0
												0		
												0		
												0		
38	No				No			No						
39	No				No			No						
40	No				No			No						
41	No				No			No						

	CO				NO2 (area-wide)			NO2 (near-road)			PM10*			
	Monitor May Be Required?	Near Road Site?	Current CO Monitor at Near Road Site?	New Monitors Needed	One Monitor May be Required Based on CBSA Population?	Current NO2 Area-Wide Monitor?	New Monitors Needed	One Monitor May be Required Based on CBSA Population?	Current NO2 Near-Road Monitor?	New Monitors Needed	Monitors May be Required Based on MSA Population?	2016-2017 Monitors	No. Required Monitors Based On Population	New Monitors Needed**
42	No				No			No			Yes	2	0	0
43	No				No			No			Yes	1	0	0
44	No				No			No						
45	No				No			No						
16	No				No			No			Yes	2	1 to 2	0
47	No				No			No						
											*No monitors in Ohio exceed 80% of the PM10 NAAQS, therefore all areas are considered low concentration, ** see Annual Monitoring Network Plan discussion regarding previous approval of reduction in PM10 monitoring requirements			