

APPENDIX A

AIR QUALITY CONFORMITY

Transportation Conformity is an analytical process required of MPO's, and States, following the Clean Air Act Amendments of 1990. The Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) linked compliance with the conformity requirements to continued Federal Highway Administration (FHWA) and Federal Transit (FTA) funding of transportation plans, programs, and projects.

Under the metropolitan planning requirements of Titles 23 and U.S.C., projects cannot be approved, funded, advanced through the planning process, or implemented unless those projects are in a fiscally constrained and conforming transportation plan and transportation improvement program (TIP).

MPO's must demonstrate, through the conformity process that the transportation investments, strategies and programs they choose, taken as a whole, have air quality impacts consistent with those contained in the State Implementation Plan (SIP) for achieving National Ambient Air Quality Standards (NAAQS) and that emissions do not exceed the SIP targets for emissions from mobile sources.

Specifically, the transportation plan and the TIP must result in emissions consistent with those allowed in the SIP.

The Dayton/Springfield area has been designed as an attainment/maintenance area with regard to ozone. The Miami Valley Regional Planning Commission (MVRPC) and the Clark County-Springfield Transportation Coordinating Committee (CCSTCC) have a memorandum of understanding indicating that MVRPC will be the lead agency in the Dayton/Springfield Air Quality Control Region (ACQR) for air quality planning with cooperation from the Ohio Environmental Protection Agency (OEPA), the Regional Air Pollution Control Agency (RAPCA), and ODOT.

Multiple MPO Conformity Issues

In the Dayton/Springfield area, the MVRPC performs emission analysis for Montgomery and Greene Counties. Clark County-Springfield TCC emissions analysis is performed by the Ohio Department of Transportation-Urban Modeling Forecasting Section to year 2025 in their latest Long Range Plan update. The results of these analyses are then combined to make conformity attainment and milestone year emission tests. The results of the air quality conformity analysis are shown in Figure 1.

Figure 1. Dayton/Springfield Air Quality Conformity

Year	County	Hydrocarbons (HC) tons/day	Nitrogen Oxides (NOX) tons/day
2005	MON/GRE	23.771	20.821
	MIA	4.810	6.060
	CLARK	5.553	8.067
	4-CO AREA	34.133	34.948
2015	MON/GRE	18.578	12.599
	MIA	4.890	5.510
	CLARK	4.394	4.947
	4-CO AREA	27.862	23.055
2025	MON/GRE	19.323	12.577
	MIA	5.356	5.977
	CLARK	4.730	5.153
	4-CO AREA	29.409	23.707
2005	Budget	39.6	39.4

TABLE 1													
DAYTON-SPRINGFIELD AIR QUALITY CONFORMITY ANALYSIS													
SPRINGFIELD TCC 2002 TRANSPORTATION PLAN													
MAY 2002													
a	b	c	d	e	f	g	h	i	j	k	l	m	
	County	YEAR	Model Emissions	Area Factor	Non-Model HPMS Emissions (area factor applied)	SIP Factor Emissions	Model Factored Emissions	Total Emissions	Sheet #8 Benefits	FINAL Emissions (with Sheet #8 Benefits)	BUDGET	Difference	
VOC (HC)	MONTGOMERY & GREENE	2005	22.799			1.063	24.235	24.235	0.881	23.354			
		2015	17.197			1.063	18.280	18.280	1.201	17.079			
		2025	18.895			1.063	20.085	20.085	1.447	18.638			
	MIAMI	2005			1	6.391	1		6.391	0.154	6.237		
		2015			1	6.436	1		6.436	0.190	6.246		
		2025			1	7.270	1		7.270	0.193	7.077		
	CLARK	2005	5.293	0.180	1.099	0.876	4.637	5.736	0.256	5.480			
		2015	4.092	0.180	0.706	0.876	3.585	4.291	0.331	3.960			
		2025	4.636	0.180	0.740	0.876	4.061	4.801	0.428	4.373			
	Total 4-County Area	2005						36.362	1.291	35.071	39.600	4.529	
		2015						29.007	1.722	27.285	39.600	12.315	
		2025						32.157	2.068	30.089	39.600	9.511	
NOX	MONTGOMERY & GREENE	2005	30.643	n/a		0.799	24.484	24.484	4.483	20.001			
		2015	17.891	n/a		0.799	14.295	14.295	9.883	4.412			
		2025	17.837	n/a		0.799	14.252	14.252	11.766	2.486			
	MIAMI	2005	n/a		1	7.418	1		7.418	0.746	6.672		
		2015	n/a		1	6.638	1		6.638	1.838	4.800		
		2025	n/a		1	7.374	1		7.374	2.312	5.062		
	CLARK	2005	7.833	0.180	1.747	1.101	8.624	10.371	1.306	9.065			
		2015	4.671	0.180	0.950	1.101	5.143	6.093	3.142	2.951			
		2025	4.997	0.180	0.923	1.101	5.502	6.425	3.919	2.506			
	Total 4-County Area	2005						42.273	6.535	35.738	39.400	3.662	
		2015						27.026	14.863	12.163	39.400	27.237	
		2025						28.050	17.997	10.053	39.400	29.347	
	County	YEAR	Model Emissions	Area Factor	Non-Model HPMS Emissions (area factor applied)	SIP Factor Emissions	Model Factored Emissions	Total Emissions	Sheet #8 Benefits	FINAL Emissions (with Sheet #8 Benefits)	BUDGET	Difference	