

CMAQ Performance Plan

To be submitted with INDOT’s Mid Performance Period Progress Report

MPO Name:

TMA and State:

Indianapolis MPO

Indianapolis, IN

Background Introduction:

The Indianapolis MPO CMAQ Performance Plan is to be submitted with the INDOT Baseline Performance Period Report. This is required under FHWA’s Performance Measure Rules 23 CFR 490.107(c) and 23 USC 149(l). The Peak Hour Excessive Delay (PHED) and Non-Single Occupancy Vehicle (SOV) Travel are measures to assess traffic congestion (Subpart G). The On-Road Mobile Source Emissions performance measure is a measure to assess the CMAQ Program’s On Road Mobile Source Emissions (Subpart H). For PHED and Non-SOV Travel the Indianapolis MPO worked in conjunction with INDOT to determine single unified targets. The Indianapolis MPO’s target for Carbon Monoxide (CO), for the CMAQ On Road Mobile Source Emissions measure, is based on the Indianapolis MPO’s planned CMAQ projects.

2-Year Condition/Performance:

2-year Condition/Performance for Traffic Congestion Measures:

PM-3 Performance Measures	Measure Units	2018 Performance	2019 Performance	Average of 2018 and 2019
Peak Hour Excessive Delay (PHED) for NHS - Indianapolis Urbanized Area	Annual hours of PHED per capita	3.77	4.36	4.07
Non-Single Occupancy Vehicle (SOV) Travel - Indianapolis Urbanized Area	% of non-SOV travel	16.72%	18.14%	17.43%

2-year Condition/Performance for On-Road Mobile Source Emissions Measures:

PM-3 CMAQ Performance Measures	Measure Units	2018 Performance	2019 Performance	Total 2019 and 2019
CMAQ Project Emissions Reduction - Indianapolis MPO for CO	Emissions reduction (kg)	482.867	529.06	1,011.92

Description of Projects

Location	Project Type	Year	NOx Benefit kg/day	VOC Benefit kg/day	CO Benefit kg/day	PM2.5 Benefit kg/day	PM10 Benefit kg/day	PHED Benefit (Annual Peak Hour Delay Savings in Hours)	Non-SOV Benefit (Reduction in Trips)
Bridgeport & Morris	Roundabout - Congestion Reduction	2018	0.134	0.325	3.884	0.002	N/A	6,227	N/A
ITS Communications Systems on I65	Intelligent Transportation Systems	2018	10.360	3.440	67.580	0.153	N/A	N/A	N/A
ITS Communications Systems on I465	Intelligent Transportation Systems	2018	36.540	15.209	265.530	0.657	N/A	N/A	N/A
Lowes Way to Keystone Ave Ramp - Phase II	Congestion Reduction	2018	0.526	0.290	2.550	0.009	N/A	54,346	N/A
Roundabout at Smith Valley Road and Madison Avenue in Johnson County	Roundabout - Congestion Reduction	2018	0.4533	1.103	13.170	0.007	N/A	N/A	N/A
Roundabout at 96th St & Priority Way in Hamilton County	Roundabout - Congestion Reduction	2018	0.389	0.946	11.294	0.006	N/A	11,213	N/A
Monument Circle Road Diet	Congestion Reduction	2018	0.114	0.277	3.297	0.002	N/A	N/A	N/A
Roundabout at Hague Rd and Carrigan Rd (209th St) in Hamilton County	Roundabout - Congestion Reduction	2019	1.23	0.340	5.110	0.006	N/A	N/A	N/A
Arlington Ave. & Edgewood Ave	Intersection Improvement	2019	0.176	0.428	5.110	0.003	N/A	6,531	N/A
19th & Pleasant St	Roundabout - Congestion Reduction	2019	1.880	0.580	8.710	0.001	N/A	7,545	N/A
186th & Cumberland Rd	Roundabout - Congestion Reduction	2019	1.090	0.340	5.070	0.000	N/A	1,466	N/A
Commuter Connect-FY2019	Non-SOV	2019	20.619	17.527	N/A	3.157	N/A	N/A	912,089
Greenfield Ave. & Howe Rd	Roundabout - Congestion Reduction	2019	4.460	10.850	129.580	0.000	N/A	1,587	N/A
Roundabout at Franklin Road and Edgewood Ave in Marion County	Roundabout - Congestion Reduction	2019	0.090	0.218	2.608	0.001	N/A	3,640	N/A
2020-2021 Commuter Connect Carpool Vanpool Program	Non-SOV	2019	22.108	7.883	187.114	0.252	N/A	N/A	1,771,000

Location	Project Type	Year	NOx Benefit kg/day	VOC Benefit kg/day	CO Benefit kg/day	PM2.5 Benefit kg/day	PM10 Benefit kg/day	PHED Benefit (Annual Peak Hour Delay Savings in Hours)	Non-SOV Benefit (Reduction in Trips)
Knozone Awareness Program	Knozone Awareness	2019	570.170	558.990	N/A	N/A	N/A	N/A	N/A
Bikeshare Expansion 30 new stations, 250 new bikes	Non-SOV	2019	2.212	3.300	29.998	0.024	N/A	N/A	95,000
Sherman Dr and Thompson Rd	Roundabout - Congestion Reduction	2019	0.243	0.599	7.045	0.004	N/A	8,248	N/A
Transit Signal Priority on 38th St	Transit Improvement	2019	1.420	0.610	0.000	0.914	N/A	N/A	N/A
Five Points & Edgewood	Roundabout - Congestion Reduction	2020	0.152	0.369	4.406	0.002	N/A	11,783	N/A
Arlington Avenue and Shelbyville Road	Roundabout - Congestion Reduction	2020	0.136	0.330	3.937	0.002	N/A	4,361	N/A
Monon Bicycle/Pedestrian Bridge over 38th St.	Non-SOV	2020	0.980	1.020	12.902	0.010	N/A	N/A	130,000.000
Franklin Rd. & Thompson Rd	Intersection Improvement	2020	0.102	0.248	2.958	0.002	N/A	3,411	N/A
Franklin Rd. & Edgewood Ave	Intersection Improvement	2020	0.090	0.218	2.608	0.001	N/A	3,640	N/A
Five Points Rd. & Stop 11 Rd	Intersection Improvement	2020	0.100	0.243	2.898	0.002	N/A	3,198	N/A
Combs Rd. & Stop 11 Rd	Intersection Improvement	2020	0.061	0.149	1.774	0.000	N/A	5,475	N/A
IndyGo Transit Signal Priority	Non-SOV	2020	975.027	418.984	N/A	9.515	N/A	N/A	52,499
86th St. & Lafayette Rd	New Traffic Signal Installation	2020	0.555	0.544	3.480	0.015	N/A	9,359	N/A
Fairview & Peterman Rd	Roundabout - Congestion Reduction	2021	0.543	0.688	4.549	0.011	N/A	12,247	N/A
Southeastern Pkwy & Cyntheanne Rd	Roundabout - Congestion Reduction	2021	0.502	0.492	3.603	0.010	N/A	6,255	N/A

Assessment of Progress towards achieving the 2-year targets:

Pollutant/Non-Attainment or Maintenance Area	Assessment of Progress towards Achieving Targets
CO Area Projects	The Indianapolis MPO met the 2-year target for CO emissions reduction. The Indianapolis MPO's 2-year target for CO emissions is an emission reduction of 200 kg and our actual 2-year performance was a reduction of 1,011.92 kg. The actual number is so much larger than target because the list of projects on the Baseline Report only contained 9 projects occurring in 2018 and 2019 and the Mid-Period Report has an additional 10 projects added for 19 projects occurring in 2018 and 2019.