

Detailed Measures of Effectiveness
for Eastview

No Build (2040)
PM Peak Hour

Rt 96 #1

Direction	EB	WB	NB	SB	All
Control Delay / Veh (s/v)	8	9	16	19	15
Total Delay / Veh (s/v)	8	9	16	20	15
Total Delay (hr)	15	15	52	76	158
Stops / Veh	0.42	0.33	0.40	0.79	0.53
Stops (#)	2859	1829	4662	10748	20098
Average Speed (mph)	33	31	21	20	24
Total Travel Time (hr)	56	48	95	135	334
Distance Traveled (mi)	1817	1514	1954	2696	7981
Fuel Consumed (gal)	109	85	163	282	639
Fuel Economy (mpg)	16.6	17.7	12.0	9.6	12.5
CO Emissions (kg)	7.63	5.98	11.38	19.69	44.67
NOx Emissions (kg)	1.48	1.16	2.21	3.83	8.69
VOC Emissions (kg)	1.77	1.38	2.64	4.56	10.35
Performance Index	23.4	19.9	64.9	106.1	214.3

Zone E-view Totals

Number of Intersections	14
Control Delay / Veh (s/v)	26
Total Delay / Veh (s/v)	26
Total Delay (hr)	345
Stops / Veh	0.54
Stops (#)	26045
Average Speed (mph)	17
Total Travel Time (hr)	564
Distance Traveled (mi)	9406
Fuel Consumed (gal)	874
Fuel Economy (mpg)	10.8
CO Emissions (kg)	61.08
NOx Emissions (kg)	11.88
VOC Emissions (kg)	14.16
Performance Index	417.7

Detailed Measures of Effectiveness
for Main St. Fishers/Victor-Mendon Rd.

No Build (2040)
PM Peak Hour

Rt 96 #1

Direction	NB	SB	All
Control Delay / Veh (s/v)	37	62	51
Total Delay / Veh (s/v)	37	62	51
Total Delay (hr)	35	79	113
Stops / Veh	0.62	0.36	0.47
Stops (#)	2076	1641	3717
Average Speed (mph)	18	9	12
Total Travel Time (hr)	54	95	149
Distance Traveled (mi)	959	835	1794
Fuel Consumed (gal)	89	111	200
Fuel Economy (mpg)	10.7	7.5	9.0
CO Emissions (kg)	6.25	7.75	14.00
NOx Emissions (kg)	1.22	1.51	2.72
VOC Emissions (kg)	1.45	1.80	3.25
Performance Index	40.5	83.3	123.8

Zone MSF/251 Totals

Number of Intersections	2
Control Delay / Veh (s/v)	60
Total Delay / Veh (s/v)	60
Total Delay (hr)	157
Stops / Veh	0.51
Stops (#)	4771
Average Speed (mph)	11
Total Travel Time (hr)	200
Distance Traveled (mi)	2116
Fuel Consumed (gal)	257
Fuel Economy (mpg)	8.2
CO Emissions (kg)	17.93
NOx Emissions (kg)	3.49
VOC Emissions (kg)	4.16
Performance Index	170.6

Detailed Measures of Effectiveness
for Western Approach

No Build (2040)
PM Peak Hour

Rt 96 #1

Direction	NB	SB	All
Control Delay / Veh (s/v)	4	46	29
Total Delay / Veh (s/v)	4	46	29
Total Delay (hr)	3	55	58
Stops / Veh	0.19	0.49	0.37
Stops (#)	582	2094	2676
Average Speed (mph)	46	20	29
Total Travel Time (hr)	46	91	136
Distance Traveled (mi)	2120	1783	3904
Fuel Consumed (gal)	82	132	215
Fuel Economy (mpg)	25.7	13.5	18.2
CO Emissions (kg)	5.76	9.24	15.00
NOx Emissions (kg)	1.12	1.80	2.92
VOC Emissions (kg)	1.33	2.14	3.48
Performance Index	4.9	60.8	65.7

Zone W Appr Totals

Number of Intersections	3
Control Delay / Veh (s/v)	54
Total Delay / Veh (s/v)	54
Total Delay (hr)	124
Stops / Veh	0.41
Stops (#)	3401
Average Speed (mph)	20
Total Travel Time (hr)	207
Distance Traveled (mi)	4129
Fuel Consumed (gal)	277
Fuel Economy (mpg)	14.9
CO Emissions (kg)	19.39
NOx Emissions (kg)	3.77
VOC Emissions (kg)	4.49
Performance Index	133.3

Detailed Measures of Effectiveness
for The Village

No Build (2040)
PM Peak Hour

Rt 96 #1

Direction	EB	WB	All
Control Delay / Veh (s/v)	22	11	17
Total Delay / Veh (s/v)	36	11	25
Total Delay (hr)	43	10	53
Stops / Veh	0.52	0.36	0.45
Stops (#)	2265	1201	3466
Average Speed (mph)	18	20	18
Total Travel Time (hr)	97	31	128
Distance Traveled (mi)	1706	627	2332
Fuel Consumed (gal)	113	40	153
Fuel Economy (mpg)	15.1	15.8	15.3
CO Emissions (kg)	7.91	2.78	10.69
NOx Emissions (kg)	1.54	0.54	2.08
VOC Emissions (kg)	1.83	0.64	2.48
Performance Index	49.2	13.3	62.5

Zone Village Totals

Number of Intersections	4
Control Delay / Veh (s/v)	21
Total Delay / Veh (s/v)	27
Total Delay (hr)	68
Stops / Veh	0.49
Stops (#)	4397
Average Speed (mph)	17
Total Travel Time (hr)	156
Distance Traveled (mi)	2716
Fuel Consumed (gal)	185
Fuel Economy (mpg)	14.7
CO Emissions (kg)	12.91
NOx Emissions (kg)	2.51
VOC Emissions (kg)	2.99
Performance Index	80.0

Detailed Measures of Effectiveness
for Eastern End

No Build (2040)
PM Peak Hour

Rt 96 #1

Direction	EB	WB	All
Control Delay / Veh (s/v)	1	0	1
Total Delay / Veh (s/v)	1	0	1
Total Delay (hr)	1	0	1
Stops / Veh	0.75	0.49	0.62
Stops (#)	1258	869	2127
Average Speed (mph)	31	30	31
Total Travel Time (hr)	40	35	75
Distance Traveled (mi)	1243	1059	2302
Fuel Consumed (gal)	58	48	106
Fuel Economy (mpg)	21.5	21.9	21.7
CO Emissions (kg)	4.04	3.38	7.42
NOx Emissions (kg)	0.79	0.66	1.44
VOC Emissions (kg)	0.94	0.78	1.72
Performance Index	4.2	2.4	6.6

Zone Eastern Totals

Number of Intersections	3
Control Delay / Veh (s/v)	2
Total Delay / Veh (s/v)	2
Total Delay (hr)	3
Stops / Veh	0.63
Stops (#)	2779
Average Speed (mph)	31
Total Travel Time (hr)	92
Distance Traveled (mi)	2846
Fuel Consumed (gal)	135
Fuel Economy (mpg)	21.1
CO Emissions (kg)	9.44
NOx Emissions (kg)	1.84
VOC Emissions (kg)	2.19
Performance Index	10.4

Detailed Measures of Effectiveness
for Whole Corridor

No Build (2040)
PM Peak Hour

Rt 96 #1

Direction	EB	WB	NB	SB	All
Control Delay / Veh (s/v)	12	8	18	33	20
Total Delay / Veh (s/v)	17	8	18	34	22
Total Delay (hr)	59	25	90	210	384
Stops / Veh	0.50	0.36	0.41	0.64	0.50
Stops (#)	6382	3899	7320	14483	32084
Average Speed (mph)	25	28	26	17	22
Total Travel Time (hr)	193	115	194	321	823
Distance Traveled (mi)	4765	3200	5034	5314	18313
Fuel Consumed (gal)	280	174	335	525	1313
Fuel Economy (mpg)	17.0	18.4	15.0	10.1	13.9
CO Emissions (kg)	19.58	12.14	23.39	36.67	91.78
NOx Emissions (kg)	3.81	2.36	4.55	7.14	17.86
VOC Emissions (kg)	4.54	2.81	5.42	8.50	21.27
Performance Index	76.7	35.6	110.3	250.2	472.9

Network Totals

Number of Intersections	26
Control Delay / Veh (s/v)	31
Total Delay / Veh (s/v)	32
Total Delay (hr)	697
Stops / Veh	0.52
Stops (#)	41393
Average Speed (mph)	17
Total Travel Time (hr)	1220
Distance Traveled (mi)	21213
Fuel Consumed (gal)	1728
Fuel Economy (mpg)	12.3
CO Emissions (kg)	120.76
NOx Emissions (kg)	23.50
VOC Emissions (kg)	27.99
Performance Index	812.1

Rt 96 #1

Direction	EB	WB	NB	SB	All
Control Delay / Veh (s/v)	8	9	16	19	15
Total Delay / Veh (s/v)	8	9	16	20	15
Total Delay (hr)	15	15	51	76	157
Stops / Veh	0.42	0.33	0.39	0.79	0.53
Stops (#)	2859	1829	4532	10748	19968
Average Speed (mph)	33	31	21	20	24
Total Travel Time (hr)	56	48	94	135	333
Distance Traveled (mi)	1817	1514	1954	2696	7981
Fuel Consumed (gal)	109	85	160	282	637
Fuel Economy (mpg)	16.6	17.7	12.2	9.6	12.5
CO Emissions (kg)	7.63	5.98	11.21	19.69	44.50
NOx Emissions (kg)	1.48	1.16	2.18	3.83	8.66
VOC Emissions (kg)	1.77	1.38	2.60	4.56	10.31
Performance Index	23.4	19.9	63.5	106.1	212.9

Zone E-view Totals

Number of Intersections	14
Control Delay / Veh (s/v)	26
Total Delay / Veh (s/v)	26
Total Delay (hr)	344
Stops / Veh	0.54
Stops (#)	25915
Average Speed (mph)	17
Total Travel Time (hr)	563
Distance Traveled (mi)	9406
Fuel Consumed (gal)	872
Fuel Economy (mpg)	10.8
CO Emissions (kg)	60.92
NOx Emissions (kg)	11.85
VOC Emissions (kg)	14.12
Performance Index	416.4

Rt 96 #1

Direction	NB	SB	All
Control Delay / Veh (s/v)	28	28	28
Total Delay / Veh (s/v)	28	28	28
Total Delay (hr)	27	35	62
Stops / Veh	0.63	0.36	0.47
Stops (#)	2116	1648	3764
Average Speed (mph)	21	16	18
Total Travel Time (hr)	46	52	98
Distance Traveled (mi)	959	835	1794
Fuel Consumed (gal)	84	79	163
Fuel Economy (mpg)	11.4	10.6	11.0
CO Emissions (kg)	5.88	5.53	11.41
NOx Emissions (kg)	1.14	1.07	2.22
VOC Emissions (kg)	1.36	1.28	2.64
Performance Index	32.6	39.8	72.3

Zone MSF/251 Totals

Number of Intersections	3
Control Delay / Veh (s/v)	38
Total Delay / Veh (s/v)	38
Total Delay (hr)	119
Stops / Veh	0.55
Stops (#)	6157
Average Speed (mph)	15
Total Travel Time (hr)	180
Distance Traveled (mi)	2710
Fuel Consumed (gal)	270
Fuel Economy (mpg)	10.0
CO Emissions (kg)	18.85
NOx Emissions (kg)	3.67
VOC Emissions (kg)	4.37
Performance Index	136.1

Rt 96 #1

Direction	NB	SB	All
Control Delay / Veh (s/v)	36	27	31
Total Delay / Veh (s/v)	36	27	31
Total Delay (hr)	18	23	40
Stops / Veh	0.74	0.84	0.80
Stops (#)	1295	2498	3793
Average Speed (mph)	33	30	31
Total Travel Time (hr)	53	56	109
Distance Traveled (mi)	1747	1687	3434
Fuel Consumed (gal)	91	111	203
Fuel Economy (mpg)	19.1	15.1	16.9
CO Emissions (kg)	6.39	7.79	14.17
NOx Emissions (kg)	1.24	1.52	2.76
VOC Emissions (kg)	1.48	1.80	3.28
Performance Index	21.3	29.6	50.8

Zone W Appr Totals

Number of Intersections	2
Control Delay / Veh (s/v)	34
Total Delay / Veh (s/v)	34
Total Delay (hr)	56
Stops / Veh	0.78
Stops (#)	4642
Average Speed (mph)	28
Total Travel Time (hr)	129
Distance Traveled (mi)	3591
Fuel Consumed (gal)	230
Fuel Economy (mpg)	15.6
CO Emissions (kg)	16.05
NOx Emissions (kg)	3.12
VOC Emissions (kg)	3.72
Performance Index	68.9

Detailed Measures of Effectiveness
for The Village

2040 - All Projects
PM Peak Hour

Rt 96 #1

Direction	EB	WB	All
Control Delay / Veh (s/v)	8	6	7
Total Delay / Veh (s/v)	8	6	7
Total Delay (hr)	7	4	11
Stops / Veh	0.36	0.22	0.30
Stops (#)	1114	572	1686
Average Speed (mph)	27	24	26
Total Travel Time (hr)	42	21	63
Distance Traveled (mi)	1113	499	1612
Fuel Consumed (gal)	56	27	83
Fuel Economy (mpg)	19.8	18.5	19.4
CO Emissions (kg)	3.93	1.88	5.82
NOx Emissions (kg)	0.76	0.37	1.13
VOC Emissions (kg)	0.91	0.44	1.35
Performance Index	10.0	6.0	16.0

Zone Village Totals

Number of Intersections	6
Control Delay / Veh (s/v)	14
Total Delay / Veh (s/v)	14
Total Delay (hr)	37
Stops / Veh	0.51
Stops (#)	4956
Average Speed (mph)	22
Total Travel Time (hr)	135
Distance Traveled (mi)	2991
Fuel Consumed (gal)	177
Fuel Economy (mpg)	16.9
CO Emissions (kg)	12.37
NOx Emissions (kg)	2.41
VOC Emissions (kg)	2.87
Performance Index	51.1

Detailed Measures of Effectiveness
for Eastern

2040 - All Projects
PM Peak Hour

Rt 96 #1

Direction	EB	WB	All
Control Delay / Veh (s/v)	2	0	1
Total Delay / Veh (s/v)	2	0	1
Total Delay (hr)	1	0	1
Stops / Veh	0.71	0.49	0.59
Stops (#)	1036	869	1905
Average Speed (mph)	31	30	30
Total Travel Time (hr)	37	34	71
Distance Traveled (mi)	1126	1017	2143
Fuel Consumed (gal)	52	47	98
Fuel Economy (mpg)	21.7	21.8	21.8
CO Emissions (kg)	3.62	3.26	6.88
NOx Emissions (kg)	0.70	0.63	1.34
VOC Emissions (kg)	0.84	0.76	1.60
Performance Index	3.5	2.4	6.0

Zone Eastern Totals

Number of Intersections	3
Control Delay / Veh (s/v)	1
Total Delay / Veh (s/v)	1
Total Delay (hr)	1
Stops / Veh	0.70
Stops (#)	3051
Average Speed (mph)	31
Total Travel Time (hr)	91
Distance Traveled (mi)	2831
Fuel Consumed (gal)	137
Fuel Economy (mpg)	20.7
CO Emissions (kg)	9.58
NOx Emissions (kg)	1.86
VOC Emissions (kg)	2.22
Performance Index	9.5

Rt 96 #1

Direction	EB	WB	NB	SB	All
Control Delay / Veh (s/v)	7	7	20	22	16
Total Delay / Veh (s/v)	7	7	20	23	17
Total Delay (hr)	23	19	95	134	272
Stops / Veh	0.44	0.33	0.47	0.70	0.53
Stops (#)	5009	3270	7943	14894	31116
Average Speed (mph)	30	29	24	21	25
Total Travel Time (hr)	134	103	192	243	673
Distance Traveled (mi)	4056	3030	4660	5218	16964
Fuel Consumed (gal)	217	159	336	472	1184
Fuel Economy (mpg)	18.7	19.0	13.9	11.1	14.3
CO Emissions (kg)	15.18	11.12	23.48	33.00	82.78
NOx Emissions (kg)	2.95	2.16	4.57	6.42	16.11
VOC Emissions (kg)	3.52	2.58	5.44	7.65	19.19
Performance Index	36.9	28.3	117.4	175.4	358.0

Network Totals

Number of Intersections	28
Control Delay / Veh (s/v)	25
Total Delay / Veh (s/v)	25
Total Delay (hr)	558
Stops / Veh	0.57
Stops (#)	44721
Average Speed (mph)	20
Total Travel Time (hr)	1097
Distance Traveled (mi)	21528
Fuel Consumed (gal)	1685
Fuel Economy (mpg)	12.8
CO Emissions (kg)	117.77
NOx Emissions (kg)	22.91
VOC Emissions (kg)	27.29
Performance Index	682.0