

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

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

2040 - Projects 2 and 6  
PM Peak Hour

Rt 96 #1

Direction	NB	SB	All
Control Delay / Veh (s/v)	2	8	5
Total Delay / Veh (s/v)	2	8	5
Total Delay (hr)	2	9	11
Stops / Veh	0.14	0.51	0.36
Stops (#)	429	2185	2614
Average Speed (mph)	48	40	44
Total Travel Time (hr)	44	45	89
Distance Traveled (mi)	2117	1780	3897
Fuel Consumed (gal)	79	100	179
Fuel Economy (mpg)	26.8	17.8	21.8
CO Emissions (kg)	5.52	6.98	12.49
NOx Emissions (kg)	1.07	1.36	2.43
VOC Emissions (kg)	1.28	1.62	2.90
Performance Index	3.1	15.2	18.3

Zone W Appr Totals

Number of Intersections	3
Control Delay / Veh (s/v)	32
Total Delay / Veh (s/v)	32
Total Delay (hr)	74
Stops / Veh	0.40
Stops (#)	3338
Average Speed (mph)	26
Total Travel Time (hr)	157
Distance Traveled (mi)	4122
Fuel Consumed (gal)	240
Fuel Economy (mpg)	17.2
CO Emissions (kg)	16.74
NOx Emissions (kg)	3.26
VOC Emissions (kg)	3.88
Performance Index	83.0

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

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)	1
Total Delay / Veh (s/v)	1
Total Delay (hr)	1
Stops / Veh	0.70
Stops (#)	3054
Average Speed (mph)	31
Total Travel Time (hr)	91
Distance Traveled (mi)	2846
Fuel Consumed (gal)	138
Fuel Economy (mpg)	20.7
CO Emissions (kg)	9.62
NOx Emissions (kg)	1.87
VOC Emissions (kg)	2.23
Performance Index	9.5

Rt 96 #1

Direction	EB	WB	NB	SB	All
Control Delay / Veh (s/v)	12	8	18	26	18
Total Delay / Veh (s/v)	17	8	18	26	19
Total Delay (hr)	59	25	89	164	337
Stops / Veh	0.50	0.36	0.40	0.65	0.50
Stops (#)	6382	3899	7167	14574	32022
Average Speed (mph)	25	28	26	19	24
Total Travel Time (hr)	193	115	193	275	776
Distance Traveled (mi)	4765	3200	5030	5311	18306
Fuel Consumed (gal)	280	174	331	492	1277
Fuel Economy (mpg)	17.0	18.4	15.2	10.8	14.3
CO Emissions (kg)	19.58	12.14	23.14	34.41	89.27
NOx Emissions (kg)	3.81	2.36	4.50	6.70	17.37
VOC Emissions (kg)	4.54	2.81	5.36	7.98	20.69
Performance Index	76.7	35.6	108.5	204.6	425.5

Network Totals

Number of Intersections	26
Control Delay / Veh (s/v)	29
Total Delay / Veh (s/v)	29
Total Delay (hr)	645
Stops / Veh	0.53
Stops (#)	41605
Average Speed (mph)	18
Total Travel Time (hr)	1168
Distance Traveled (mi)	21206
Fuel Consumed (gal)	1692
Fuel Economy (mpg)	12.5
CO Emissions (kg)	118.30
NOx Emissions (kg)	23.02
VOC Emissions (kg)	27.42
Performance Index	760.9

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
Unserved Vehicles (#)	0	0	12	61	73
Vehicles in dilemma zone (#)	246	250	263	374	1133
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
Unserved Vehicles (#)	347
Vehicles in dilemma zone (#)	1199
Performance Index	416.4

Rt 96 #1

Direction	NB	SB	All
Control Delay / Veh (s/v)	29	28	28
Total Delay / Veh (s/v)	29	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	164
Fuel Economy (mpg)	11.4	10.6	11.0
CO Emissions (kg)	5.91	5.53	11.43
NOx Emissions (kg)	1.15	1.07	2.22
VOC Emissions (kg)	1.37	1.28	2.65
Unserved Vehicles (#)	53	73	126
Vehicles in dilemma zone (#)	14	51	65
Performance Index	33.0	39.8	72.8

Zone MSF/251 Totals

Number of Intersections	2
Control Delay / Veh (s/v)	43
Total Delay / Veh (s/v)	43
Total Delay (hr)	113
Stops / Veh	0.51
Stops (#)	4839
Average Speed (mph)	14
Total Travel Time (hr)	156
Distance Traveled (mi)	2116
Fuel Consumed (gal)	225
Fuel Economy (mpg)	9.4
CO Emissions (kg)	15.71
NOx Emissions (kg)	3.06
VOC Emissions (kg)	3.64
Unserved Vehicles (#)	271
Vehicles in dilemma zone (#)	91
Performance Index	126.1

Rt 96 #1

Direction	NB	SB	All
Control Delay / Veh (s/v)	28	30	29
Total Delay / Veh (s/v)	28	30	29
Total Delay (hr)	16	26	42
Stops / Veh	0.76	0.75	0.76
Stops (#)	1575	2399	3974
Average Speed (mph)	36	29	33
Total Travel Time (hr)	58	64	122
Distance Traveled (mi)	2115	1874	3988
Fuel Consumed (gal)	107	119	226
Fuel Economy (mpg)	19.8	15.8	17.7
CO Emissions (kg)	7.47	8.31	15.78
NOx Emissions (kg)	1.45	1.62	3.07
VOC Emissions (kg)	1.73	1.93	3.66
Unserviced Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	101	69	170
Performance Index	20.6	32.9	53.5

Zone W Appr Totals

Number of Intersections	2
Control Delay / Veh (s/v)	29
Total Delay / Veh (s/v)	29
Total Delay (hr)	51
Stops / Veh	0.73
Stops (#)	4595
Average Speed (mph)	31
Total Travel Time (hr)	136
Distance Traveled (mi)	4229
Fuel Consumed (gal)	247
Fuel Economy (mpg)	17.1
CO Emissions (kg)	17.24
NOx Emissions (kg)	3.35
VOC Emissions (kg)	4.00
Unserviced Vehicles (#)	0
Vehicles in dilemma zone (#)	187
Performance Index	63.9

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	19
Total Travel Time (hr)	99	31	130
Distance Traveled (mi)	1790	627	2416
Fuel Consumed (gal)	116	40	156
Fuel Economy (mpg)	15.4	15.8	15.5
CO Emissions (kg)	8.14	2.78	10.92
NOx Emissions (kg)	1.58	0.54	2.12
VOC Emissions (kg)	1.89	0.64	2.53
Unserviced Vehicles (#)	25	0	25
Vehicles in dilemma zone (#)	0	0	0
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)	18
Total Travel Time (hr)	158
Distance Traveled (mi)	2800
Fuel Consumed (gal)	188
Fuel Economy (mpg)	14.9
CO Emissions (kg)	13.15
NOx Emissions (kg)	2.56
VOC Emissions (kg)	3.05
Unserviced Vehicles (#)	25
Vehicles in dilemma zone (#)	0
Performance Index	80.0

Detailed Measures of Effectiveness  
for Eastern Approach

2040 - Projects 2 thru 6  
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
Unserviced Vehicles (#)	0	0	0
Vehicles in dilemma zone (#)	0	0	0
Performance Index	4.2	2.4	6.6

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 (#)	3054
Average Speed (mph)	31
Total Travel Time (hr)	91
Distance Traveled (mi)	2846
Fuel Consumed (gal)	138
Fuel Economy (mpg)	20.7
CO Emissions (kg)	9.62
NOx Emissions (kg)	1.87
VOC Emissions (kg)	2.23
Unserviced Vehicles (#)	0
Vehicles in dilemma zone (#)	0
Performance Index	9.5

Detailed Measures of Effectiveness  
for Whole Corridor

2040 - Projects 2 thru 6  
PM Peak Hour

Rt 96 #1

Direction	EB	WB	NB	SB	All
Control Delay / Veh (s/v)	12	8	20	23	17
Total Delay / Veh (s/v)	17	8	20	23	18
Total Delay (hr)	59	25	94	138	316
Stops / Veh	0.50	0.36	0.48	0.69	0.54
Stops (#)	6382	3899	8223	14795	33299
Average Speed (mph)	25	28	25	22	24
Total Travel Time (hr)	195	115	198	251	759
Distance Traveled (mi)	4849	3200	5028	5405	18482
Fuel Consumed (gal)	283	174	352	480	1288
Fuel Economy (mpg)	17.1	18.4	14.3	11.3	14.3
CO Emissions (kg)	19.81	12.14	24.59	33.52	90.06
NOx Emissions (kg)	3.85	2.36	4.78	6.52	17.52
VOC Emissions (kg)	4.59	2.81	5.70	7.77	20.87
Unserved Vehicles (#)	25	0	64	134	223
Vehicles in dilemma zone (#)	246	250	378	494	1368
Performance Index	76.7	35.6	117.1	178.8	408.3

Network Totals

Number of Intersections	25
Control Delay / Veh (s/v)	26
Total Delay / Veh (s/v)	27
Total Delay (hr)	577
Stops / Veh	0.56
Stops (#)	42800
Average Speed (mph)	19
Total Travel Time (hr)	1104
Distance Traveled (mi)	21397
Fuel Consumed (gal)	1669
Fuel Economy (mpg)	12.8
CO Emissions (kg)	116.64
NOx Emissions (kg)	22.69
VOC Emissions (kg)	27.03
Unserved Vehicles (#)	643
Vehicles in dilemma zone (#)	1477
Performance Index	695.9