

Summary of All Intervals

Run Number	1	2	3	4	5	Avg
Start Time	6:57	6:57	6:57	6:57	6:57	6:57
End Time	8:00	8:00	8:00	8:00	8:00	8:00
Total Time (min)	63	63	63	63	63	63
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	3860	3839	3776	3760	3824	3807
Vehs Exited	3855	3821	3778	3737	3824	3806
Starting Vehs	106	90	103	89	119	94
Ending Vehs	111	108	101	112	119	100
Travel Distance (mi)	1375	1373	1333	1344	1367	1358
Travel Time (hr)	124.8	122.3	117.9	118.5	122.0	121.1
Total Delay (hr)	64.0	61.5	59.1	59.2	61.1	61.0
Total Stops	6198	6093	5857	5943	6105	6040
Fuel Used (gal)	67.9	67.1	65.4	65.7	67.0	66.6

Interval #0 Information Seeding

Start Time	6:57
End Time	7:00
Total Time (min)	3
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	7:00					
End Time	8:00					
Total Time (min)	60					
Volumes adjusted by Growth Factors.						
Run Number	1	2	3	4	5	Avg
Vehs Entered	3860	3839	3776	3760	3824	3807
Vehs Exited	3855	3821	3778	3737	3824	3806
Starting Vehs	106	90	103	89	119	94
Ending Vehs	111	108	101	112	119	100
Travel Distance (mi)	1375	1373	1333	1344	1367	1358
Travel Time (hr)	124.8	122.3	117.9	118.5	122.0	121.1
Total Delay (hr)	64.0	61.5	59.1	59.2	61.1	61.0
Total Stops	6198	6093	5857	5943	6105	6040
Fuel Used (gal)	67.9	67.1	65.4	65.7	67.0	66.6

1: State Street & Grove Street/Olive Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.1	0.1	0.0	0.4	0.2
Total Del/Veh (s)	26.1	27.0	16.6	14.4	17.4

2: State Street & Wall Street Performance by approach

Approach	NB	SB	All
Denied Del/Veh (s)	0.0	0.0	0.0
Total Del/Veh (s)	3.4	1.7	2.7

3: State Street & Elm Street/Grand Avenue Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.2	1.9	0.0	0.0	0.4
Total Del/Veh (s)	25.0	21.5	28.2	12.0	22.4

4: State Street & Court Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.0
Total Del/Veh (s)	33.8	16.2	1.8	13.6	10.8

5: State Street & Pitkin Tunnel Performance by approach

Approach	EB	NB	SB	All
Denied Del/Veh (s)	0.3	0.0	0.0	0.0
Total Del/Veh (s)	55.3	14.3	2.6	12.5

6: State Street & Chapel Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.2	0.0	0.0	0.0	0.0
Total Del/Veh (s)	37.3	24.0	26.4	34.6	29.8

7: State Street & Crown Street Performance by approach

Approach	WB	SB	All
Denied Del/Veh (s)	0.0	0.0	0.0
Total Del/Veh (s)	5.6	1.1	1.7

8: State Street & George Street/Fair Street Performance by approach

Approach	EB	SB	All
Denied Del/Veh (s)	0.2	0.0	0.1
Total Del/Veh (s)	31.0	21.5	26.6

9: N. Frontage Road/Water Street & State Street & State Street N Performance by approach

Approach	WB	NB	SB	All
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Del/Veh (s)	36.0	20.8	18.0	22.5

10: State Street N & Crown Street Performance by approach

Approach	NB	All
Denied Del/Veh (s)	0.0	0.0
Total Del/Veh (s)	1.1	1.1

11: State Street N & Fair Street Performance by approach

Approach	EB	WB	NB	All
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Del/Veh (s)	5.0	6.7	23.2	13.7

26: State Street & Parking/Audubon Performance by approach

Approach	SE	NW	NE	SW	All
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.0
Total Del/Veh (s)	17.8	32.9	5.9	17.0	11.9

35: State Street Performance by approach

Approach	SE	NE	SW	All
Denied Del/Veh (s)	0.1	0.0	0.3	0.2
Total Del/Veh (s)	4.9	1.0	0.3	0.9

Total Zone Performance

Denied Del/Veh (s)	0.4
Total Del/Veh (s)	345.8

Intersection: 1: State Street & Grove Street/Olive Street

Movement	EB	WB	WB	NB	NB	NB	SB	SB	SB
Directions Served	LTR	LT	TR	L	T	TR	L	T	TR
Maximum Queue (ft)	80	133	108	136	159	142	89	146	206
Average Queue (ft)	29	71	37	68	66	70	32	33	90
95th Queue (ft)	64	119	77	120	121	127	70	101	185
Link Distance (ft)	766	332	332		352	352		273	273
Upstream Blk Time (%)									
Queuing Penalty (veh)									
Storage Bay Dist (ft)				295			118		
Storage Blk Time (%)							0	0	
Queuing Penalty (veh)							0	0	

Intersection: 2: State Street & Wall Street

Movement	NB	NB	NB	SB	SB
Directions Served	L	T	T	T	TR
Maximum Queue (ft)	70	6	16	31	34
Average Queue (ft)	16	1	2	1	1
95th Queue (ft)	50	8	14	11	14
Link Distance (ft)		425	425	352	352
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	147				
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 3: State Street & Elm Street/Grand Avenue

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB
Directions Served	L	T	TR	L	L	R	T	TR	LT	T
Maximum Queue (ft)	198	163	177	111	172	105	148	140	95	166
Average Queue (ft)	109	103	85	15	78	20	66	64	22	54
95th Queue (ft)	179	154	152	55	147	88	121	120	69	130
Link Distance (ft)	766	766	766	552	552		410	410	425	425
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)						80				
Storage Blk Time (%)					8	0				
Queuing Penalty (veh)					10	0				

Intersection: 4: State Street & Court Street

Movement	EB	WB	NB	NB	SB	SB	SB
Directions Served	LTR	LTR	T	TR	L	T	T
Maximum Queue (ft)	73	69	49	61	50	168	346
Average Queue (ft)	29	26	14	16	9	21	132
95th Queue (ft)	61	57	40	46	32	89	259
Link Distance (ft)	427	550	152	152		410	410
Upstream Blk Time (%)							0
Queuing Penalty (veh)							0
Storage Bay Dist (ft)					93		
Storage Blk Time (%)						0	
Queuing Penalty (veh)						0	

Intersection: 5: State Street & Pitkin Tunnel

Movement	EB	EB	NB	NB	NB	SB	SB	SB
Directions Served	L	R	L	T	T	T	T	TR
Maximum Queue (ft)	45	218	128	136	127	31	45	75
Average Queue (ft)	10	88	66	34	33	2	8	25
95th Queue (ft)	34	171	123	93	83	15	31	62
Link Distance (ft)	270	270		150	150	152	152	152
Upstream Blk Time (%)		0	0	0	0			
Queuing Penalty (veh)		0	0	1	0			
Storage Bay Dist (ft)			120					
Storage Blk Time (%)			3	1				
Queuing Penalty (veh)			5	1				

Intersection: 6: State Street & Chapel Street

Movement	EB	WB	WB	NB	NB	NB	SB	SB	SB	SB
Directions Served	LTR	LT	TR	L	T	TR	L	T	T	R
Maximum Queue (ft)	170	182	204	141	173	164	112	150	180	154
Average Queue (ft)	81	82	91	38	80	77	42	96	121	86
95th Queue (ft)	147	140	161	89	146	139	85	157	175	144
Link Distance (ft)	536	276	276		185	185	150	150	150	150
Upstream Blk Time (%)					0	0	0	0	4	2
Queuing Penalty (veh)					0	0	0	0	6	2
Storage Bay Dist (ft)				126						
Storage Blk Time (%)					3					
Queuing Penalty (veh)					1					

Intersection: 7: State Street & Crown Street

Movement	WB	WB	SB	SB
Directions Served	LT	T	T	TR
Maximum Queue (ft)	58	44	15	22
Average Queue (ft)	29	10	1	2
95th Queue (ft)	49	35	8	16
Link Distance (ft)	61	61	246	246
Upstream Blk Time (%)	0	0		
Queuing Penalty (veh)	0	0		
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 8: State Street & George Street/Fair Street

Movement	EB	EB	EB	SB	SB
Directions Served	T	TR	R	LT	TR
Maximum Queue (ft)	171	226	177	176	252
Average Queue (ft)	87	132	48	50	130
95th Queue (ft)	150	203	141	131	231
Link Distance (ft)	381	381	381	337	337
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 9: N. Frontage Road/Water Street & State Street & State Street N

Movement	WB	WB	NB	NB	B34	B34	SB	SB	SB	SB
Directions Served	L	>	R	R>	T	T	L	T	T	T
Maximum Queue (ft)	144	114	137	128	72	14	104	137	145	113
Average Queue (ft)	64	37	85	58	9	1	37	67	71	32
95th Queue (ft)	120	86	136	105	47	9	80	122	136	89
Link Distance (ft)	224	224	54	54	134	134	360	360	360	
Upstream Blk Time (%)			28	18						
Queuing Penalty (veh)			0	0						
Storage Bay Dist (ft)										255
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 10: State Street N & Crown Street

Movement	NB
Directions Served	L
Maximum Queue (ft)	6
Average Queue (ft)	0
95th Queue (ft)	4
Link Distance (ft)	230
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 11: State Street N & Fair Street

Movement	EB	EB	WB	NB	NB	NB
Directions Served	L	T	R	T	T	TR
Maximum Queue (ft)	88	68	64	107	155	137
Average Queue (ft)	21	13	13	28	74	49
95th Queue (ft)	60	46	43	75	135	110
Link Distance (ft)	186	186	74	365	365	365
Upstream Blk Time (%)			0			
Queuing Penalty (veh)			0			
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 26: State Street & Parking/Audubon

Movement	SE	SE	NW	NE	NE	SW	SW
Directions Served	L	TR	LTR	T	TR	L	T
Maximum Queue (ft)	68	62	12	70	73	26	297
Average Queue (ft)	22	18	1	23	25	4	145
95th Queue (ft)	55	47	9	57	60	17	246
Link Distance (ft)	271	271	194	273	273	362	362
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)							
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 35: State Street

Movement	SE	SE	NE	SW
Directions Served	LT	R	R	L
Maximum Queue (ft)	20	60	6	39
Average Queue (ft)	4	21	0	7
95th Queue (ft)	18	47	3	29
Link Distance (ft)	240	240	362	157
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Zone Summary

Zone wide Queuing Penalty: 27

Summary of All Intervals

Run Number	1	2	3	4	5	Avg
Start Time	4:57	4:57	4:57	4:57	4:57	4:57
End Time	6:00	6:00	6:00	6:00	6:00	6:00
Total Time (min)	63	63	63	63	63	63
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	4918	4974	4972	5042	4963	4970
Vehs Exited	4883	4943	4938	5001	4910	4937
Starting Vehs	149	141	148	149	148	143
Ending Vehs	184	172	182	190	201	181
Travel Distance (mi)	1877	1878	1846	1912	1865	1876
Travel Time (hr)	172.8	175.5	168.9	183.0	173.7	174.8
Total Delay (hr)	90.2	92.6	87.6	98.7	91.5	92.1
Total Stops	8621	8836	8575	8926	8624	8719
Fuel Used (gal)	93.0	93.4	91.5	96.9	92.7	93.5

Interval #0 Information Seeding

Start Time	4:57
End Time	5:00
Total Time (min)	3
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	5:00					
End Time	6:00					
Total Time (min)	60					
Volumes adjusted by Growth Factors.						
Run Number	1	2	3	4	5	Avg
Vehs Entered	4918	4974	4972	5042	4963	4970
Vehs Exited	4883	4943	4938	5001	4910	4937
Starting Vehs	149	141	148	149	148	143
Ending Vehs	184	172	182	190	201	181
Travel Distance (mi)	1877	1878	1846	1912	1865	1876
Travel Time (hr)	172.8	175.5	168.9	183.0	173.7	174.8
Total Delay (hr)	90.2	92.6	87.6	98.7	91.5	92.1
Total Stops	8621	8836	8575	8926	8624	8719
Fuel Used (gal)	93.0	93.4	91.5	96.9	92.7	93.5

1: State Street & Grove Street/Olive Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.2	0.1	0.0	0.1	0.1
Total Del/Veh (s)	39.6	24.9	16.6	21.2	20.4

2: State Street & Wall Street Performance by approach

Approach	NB	SB	All
Denied Del/Veh (s)	0.0	0.0	0.0
Total Del/Veh (s)	3.5	1.4	2.8

3: State Street & Elm Street/Grand Avenue Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.2	1.8	0.0	0.0	0.3
Total Del/Veh (s)	26.9	29.6	26.9	16.5	25.3

4: State Street & Court Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.2	0.1	0.0	0.1	0.0
Total Del/Veh (s)	38.0	23.5	6.6	16.1	13.7

5: State Street & Pitkin Tunnel Performance by approach

Approach	EB	NB	SB	All
Denied Del/Veh (s)	4.7	0.0	0.0	0.9
Total Del/Veh (s)	81.3	12.2	2.4	20.5

6: State Street & Chapel Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.3	0.0	0.0	0.0	0.1
Total Del/Veh (s)	36.0	31.5	31.0	31.9	32.1

7: State Street & Crown Street Performance by approach

Approach	WB	SB	All
Denied Del/Veh (s)	0.0	0.1	0.1
Total Del/Veh (s)	7.6	1.3	1.9

8: State Street & George Street/Fair Street Performance by approach

Approach	EB	SB	All
Denied Del/Veh (s)	0.3	0.1	0.2
Total Del/Veh (s)	33.9	29.1	31.8

9: State Street & N. Frontage Road/Water Street Performance by approach

Approach	WB	NB	SB	All
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Del/Veh (s)	25.1	21.0	17.2	19.5

10: State Street/State Street N & Crown Street Performance by approach

Approach	NB	All
Denied Del/Veh (s)	0.0	0.0
Total Del/Veh (s)	1.0	1.0

11: State Street & Fair Street Performance by approach

Approach	EB	WB	NB	All
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Del/Veh (s)	16.0	6.0	24.1	18.6

17: State Street & Parking & Audubon Performance by approach

Approach	NB	SE	NE	SW	All
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.0
Total Del/Veh (s)	13.9	12.2	6.7	18.8	11.0

37: State Street & Trumbull St Performance by approach

Approach	SE	NE	SW	All
Denied Del/Veh (s)	0.1	0.0	0.8	0.3
Total Del/Veh (s)	6.8	4.9	2.2	4.2

Total Zone Performance

Denied Del/Veh (s)	0.8
Total Del/Veh (s)	1080.8

Arterial Level of Service: NB State Street

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Chapel Street	6	3.5	3.6	0.0	49
Pitkin Tunnel	5	1.6	7.9	0.0	19
Court Street	4	6.9	12.9	0.0	11
Grand Avenue	3	27.5	40.2	0.1	8
Wall Street	2	2.2	16.2	0.1	21
Olive Street	1	13.4	24.3	0.1	11
Parking	17	4.5	13.2	0.1	19
	37	2.4	15.3	0.1	20
Total		62.0	133.5	0.5	15

Arterial Level of Service: SB State Street

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Trumbull St	37	0.4	8.7	0.1	26
Audubon	17	18.8	30.6	0.1	10
Grove Street	1	16.9	25.7	0.1	10
Wall Street	2	1.4	12.7	0.1	22
Elm Street	3	16.5	30.1	0.1	11
Court Street	4	11.4	24.3	0.1	14
Pitkin Tunnel	5	1.9	7.3	0.0	20
Chapel Street	6	27.1	32.9	0.0	5
Total		94.4	172.4	0.6	12

Intersection: 1: State Street & Grove Street/Olive Street

Movement	EB	WB	WB	NB	NB	NB	SB	SB	SB
Directions Served	LTR	LT	TR	L	T	TR	L	T	TR
Maximum Queue (ft)	134	163	128	162	253	279	116	134	166
Average Queue (ft)	61	67	46	64	122	167	60	39	88
95th Queue (ft)	118	124	93	121	218	256	106	99	159
Link Distance (ft)	767	335	335		352	352		234	234
Upstream Blk Time (%)									
Queuing Penalty (veh)									
Storage Bay Dist (ft)				295			118		
Storage Blk Time (%)							1	0	
Queuing Penalty (veh)							1	0	

Intersection: 2: State Street & Wall Street

Movement	NB	NB	NB	SB	SB
Directions Served	L	T	T	T	TR
Maximum Queue (ft)	49	38	58	33	51
Average Queue (ft)	12	2	4	2	3
95th Queue (ft)	42	17	26	15	25
Link Distance (ft)		425	425	352	352
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	147				
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 3: State Street & Elm Street/Grand Avenue

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB
Directions Served	L	T	TR	L	L	R	T	TR	LT	T
Maximum Queue (ft)	318	246	251	115	220	105	177	186	142	236
Average Queue (ft)	172	150	130	21	95	27	99	106	37	94
95th Queue (ft)	278	219	207	74	180	101	156	168	99	183
Link Distance (ft)	766	766	766	552	552		410	410	425	425
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)						80				
Storage Blk Time (%)					14	0				
Queuing Penalty (veh)					15	0				

Intersection: 4: State Street & Court Street

Movement	EB	WB	NB	NB	SB	SB	SB
Directions Served	LTR	LTR	T	TR	L	T	T
Maximum Queue (ft)	99	60	131	133	65	309	392
Average Queue (ft)	37	19	51	54	18	45	149
95th Queue (ft)	78	53	109	114	47	168	310
Link Distance (ft)	420	550	152	152		410	410
Upstream Blk Time (%)			0	0			0
Queuing Penalty (veh)			0	0			0
Storage Bay Dist (ft)					93		
Storage Blk Time (%)						1	
Queuing Penalty (veh)						0	

Intersection: 5: State Street & Pitkin Tunnel

Movement	EB	EB	NB	NB	NB	SB	SB	SB
Directions Served	L	R	L	T	T	T	T	TR
Maximum Queue (ft)	254	297	115	50	69	52	40	85
Average Queue (ft)	91	167	74	9	24	5	8	23
95th Queue (ft)	191	302	119	35	59	27	32	64
Link Distance (ft)	270	270		150	150	152	152	152
Upstream Blk Time (%)	1	14						
Queuing Penalty (veh)	0	0						
Storage Bay Dist (ft)			120					
Storage Blk Time (%)			2					
Queuing Penalty (veh)			4					

Intersection: 6: State Street & Chapel Street

Movement	EB	WB	WB	NB	NB	NB	SB	SB	SB	SB
Directions Served	LTR	LT	TR	L	T	TR	L	T	T	R
Maximum Queue (ft)	241	152	164	138	188	199	149	152	175	162
Average Queue (ft)	121	82	79	38	111	116	78	97	117	94
95th Queue (ft)	210	133	138	101	180	184	132	165	174	150
Link Distance (ft)	536	276	276		185	185	150	150	150	150
Upstream Blk Time (%)					1	1	1	1	3	1
Queuing Penalty (veh)					2	3	3	1	6	3
Storage Bay Dist (ft)				126						
Storage Blk Time (%)				0	7					
Queuing Penalty (veh)				0	3					

Intersection: 7: State Street & Crown Street

Movement	WB	WB	SB	SB
Directions Served	LT	T	T	TR
Maximum Queue (ft)	62	40	21	58
Average Queue (ft)	28	9	1	3
95th Queue (ft)	56	33	11	25
Link Distance (ft)	61	61	246	246
Upstream Blk Time (%)	0	0		
Queuing Penalty (veh)	0	0		
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 8: State Street & George Street/Fair Street

Movement	EB	EB	EB	SB	SB
Directions Served	T	TR	R	LT	TR
Maximum Queue (ft)	261	323	249	277	305
Average Queue (ft)	127	204	123	111	195
95th Queue (ft)	222	296	236	228	302
Link Distance (ft)	381	381	381	337	337
Upstream Blk Time (%)		0		0	0
Queuing Penalty (veh)		0		0	0
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 9: State Street & N. Frontage Road/Water Street

Movement	WB	WB	NB	NB	B34	B34	SB	SB	SB	SB
Directions Served	L	>	R	R>	T	T	L	T	T	T
Maximum Queue (ft)	158	80	126	136	40	88	206	146	170	119
Average Queue (ft)	62	21	76	86	3	8	103	84	90	52
95th Queue (ft)	119	55	125	137	19	42	180	140	155	110
Link Distance (ft)	224	224	54	54	134	134	360	360	360	
Upstream Blk Time (%)	0		25	29		0				
Queuing Penalty (veh)	0		0	0		0				
Storage Bay Dist (ft)										255
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 10: State Street/State Street N & Crown Street

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 11: State Street & Fair Street

Movement	EB	EB	WB	NB	NB	NB
Directions Served	L	T	R	T	T	TR
Maximum Queue (ft)	192	184	42	96	135	118
Average Queue (ft)	119	97	7	22	66	54
95th Queue (ft)	194	165	29	65	118	106
Link Distance (ft)	186	186	74	365	365	365
Upstream Blk Time (%)	0	0	0			
Queuing Penalty (veh)	1	1	0			
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 17: State Street & Parking & Audubon

Movement	NB	SE	SE	NE	NE	SW
Directions Served	<LR	L	R>	T	TR	T
Maximum Queue (ft)	22	73	78	207	215	314
Average Queue (ft)	3	27	29	34	80	171
95th Queue (ft)	12	63	61	119	162	279
Link Distance (ft)	82	179	179	234	234	375
Upstream Blk Time (%)				0	0	
Queuing Penalty (veh)				0	0	
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 37: State Street & Trumbull St

Movement	SE	SE	NE	NE	SW
Directions Served	<LR	R	T	TR	L
Maximum Queue (ft)	40	72	20	70	71
Average Queue (ft)	10	32	1	8	26
95th Queue (ft)	33	57	10	39	61
Link Distance (ft)	257	257	375	375	
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)				100	
Storage Blk Time (%)				0	
Queuing Penalty (veh)				0	

Zone Summary

Zone wide Queuing Penalty: 45

Summary of All Intervals

Run Number	1	2	3	4	5	Avg
Start Time	6:57	6:57	6:57	6:57	6:57	6:57
End Time	8:00	8:00	8:00	8:00	8:00	8:00
Total Time (min)	63	63	63	63	63	63
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	3918	3864	3889	4001	3903	3916
Vehs Exited	3903	3858	3872	3992	3889	3904
Starting Vehs	94	111	108	110	121	102
Ending Vehs	109	117	125	119	135	116
Travel Distance (mi)	1383	1366	1367	1384	1367	1373
Travel Time (hr)	119.8	112.1	112.4	116.4	138.0	119.8
Total Delay (hr)	59.4	52.5	53.0	56.0	78.3	59.9
Total Stops	5604	5372	5436	5540	5725	5531
Fuel Used (gal)	65.4	63.1	62.9	64.7	69.3	65.1

Interval #0 Information Seeding

Start Time	6:57
End Time	7:00
Total Time (min)	3
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	7:00					
End Time	8:00					
Total Time (min)	60					
Volumes adjusted by Growth Factors.						
Run Number	1	2	3	4	5	Avg
Vehs Entered	3918	3864	3889	4001	3903	3916
Vehs Exited	3903	3858	3872	3992	3889	3904
Starting Vehs	94	111	108	110	121	102
Ending Vehs	109	117	125	119	135	116
Travel Distance (mi)	1383	1366	1367	1384	1367	1373
Travel Time (hr)	119.8	112.1	112.4	116.4	138.0	119.8
Total Delay (hr)	59.4	52.5	53.0	56.0	78.3	59.9
Total Stops	5604	5372	5436	5540	5725	5531
Fuel Used (gal)	65.4	63.1	62.9	64.7	69.3	65.1

1: State Street & Grove Street/Olive Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.1	0.2	0.0	1.1	0.6
Total Del/Veh (s)	53.8	45.9	12.1	14.1	19.6

2: State Street & Wall Street Performance by approach

Approach	NB	SB	All
Denied Del/Veh (s)	0.0	0.0	0.0
Total Del/Veh (s)	9.3	2.1	6.5

3: State Street & Elm Street/Grand Avenue Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.2	0.2	0.0	0.0	0.1
Total Del/Veh (s)	26.9	31.4	12.6	9.9	20.9

4: State Street & Court Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.0
Total Del/Veh (s)	26.3	28.7	1.5	5.2	5.9

5: State Street & Pitkin Tunnel Performance by approach

Approach	EB	NB	SB	All
Denied Del/Veh (s)	0.2	0.0	0.0	0.0
Total Del/Veh (s)	24.9	11.8	6.3	10.1

6: State Street & Chapel Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	1.5	0.0	0.0	0.0	0.1
Total Del/Veh (s)	57.8	35.1	26.4	18.1	28.9

7: State Street & Crown Street Performance by approach

Approach	NB	SB	All
Denied Del/Veh (s)	0.0	0.0	0.0
Total Del/Veh (s)	1.7	1.9	1.8

8: State Street & George Street/Fair Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.3	0.3	0.0	0.0	0.1
Total Del/Veh (s)	31.1	31.8	33.9	18.1	28.0

9: N. Frontage Road/Water Street & State Street Performance by approach

Approach	WB	NB	SB	All
Denied Del/Veh (s)	0.0	0.2	0.0	0.1
Total Del/Veh (s)	36.4	12.4	5.5	13.7

26: State Street & Audobon Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.0
Total Del/Veh (s)	16.6	5.4	2.2	5.1	4.6

35: State Street & Trumbull Street Performance by approach

Approach	SE	NE	SW	All
Denied Del/Veh (s)	0.1	0.0	0.5	0.3
Total Del/Veh (s)	5.7	1.6	0.5	1.3

Total Zone Performance

Denied Del/Veh (s)	0.5
Total Del/Veh (s)	289.1

Arterial Level of Service: NB State Street

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
	38	5.3	14.3	0.1	15
Fair Street	8	34.2	37.3	0.0	2
Crown Street	7	1.9	12.1	0.1	21
Chapel Street	6	22.9	37.7	0.1	10
Pitkin Tunnel	5	1.2	7.4	0.0	20
Court Street	4	0.9	6.8	0.0	21
	23	0.9	8.9	0.1	22
Grand Avenue	3	12.6	17.7	0.0	8
Wall Street	2	1.7	15.9	0.1	22
Olive Street	1	5.8	16.3	0.1	17
	26	1.5	10.4	0.1	24
Trumbull Street	35	2.1	13.6	0.1	22
Total		91.0	198.2	0.8	14

Arterial Level of Service: SB State Street

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Trumbull Street	35	0.3	7.5	0.0	25
Audobon Street	26	5.1	16.5	0.1	18
Grove Street	1	13.3	21.7	0.1	12
Wall Street	2	2.3	13.7	0.1	20
Elm Street	3	8.7	22.1	0.1	15
	23	1.1	6.6	0.0	21
Court Street	4	5.2	13.1	0.1	15
Pitkin Tunnel	5	5.9	11.5	0.0	13
Chapel Street	6	16.2	22.1	0.0	7
Crown Street	7	2.1	17.0	0.1	22
George Street	8	17.8	27.3	0.1	10
	38	1.4	5.9	0.0	13
N. Frontage Road	9	4.8	13.1	0.1	17
Total		84.1	198.1	0.8	15

Intersection: 1: State Street & Grove Street/Olive Street

Movement	EB	WB	WB	NB	NB	SB	SB
Directions Served	LTR	LT	R	L	TR	L	TR
Maximum Queue (ft)	116	197	138	150	165	148	195
Average Queue (ft)	38	93	56	69	73	52	132
95th Queue (ft)	89	172	115	127	137	124	195
Link Distance (ft)	777	361	361		345		264
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)				170		100	
Storage Blk Time (%)				0	0	1	18
Queuing Penalty (veh)				0	0	3	10

Intersection: 2: State Street & Wall Street

Movement	NB	NB	SB
Directions Served	L	T	TR
Maximum Queue (ft)	75	199	64
Average Queue (ft)	31	12	5
95th Queue (ft)	61	117	30
Link Distance (ft)		445	345
Upstream Blk Time (%)		0	
Queuing Penalty (veh)		1	
Storage Bay Dist (ft)	110		
Storage Blk Time (%)	0		
Queuing Penalty (veh)	0		

Intersection: 3: State Street & Elm Street/Grand Avenue

Movement	EB	EB	EB	WB	WB	NB	B23	SB	SB
Directions Served	L	T	TR	L	R	TR	T	L	T
Maximum Queue (ft)	179	186	218	207	194	197	43	68	177
Average Queue (ft)	96	102	115	102	39	99	2	21	84
95th Queue (ft)	156	163	188	188	150	184	20	53	150
Link Distance (ft)	778	778	778	576	576	126	230		445
Upstream Blk Time (%)							4		
Queuing Penalty (veh)							16		
Storage Bay Dist (ft)								240	
Storage Blk Time (%)									
Queuing Penalty (veh)									

Intersection: 4: State Street & Court Street

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	TR	T
Maximum Queue (ft)	70	80	62	216
Average Queue (ft)	28	32	14	100
95th Queue (ft)	63	69	45	173
Link Distance (ft)	462	567	154	230
Upstream Blk Time (%)				0
Queuing Penalty (veh)				1
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 5: State Street & Pitkin Tunnel

Movement	EB	EB	NB	NB	SB
Directions Served	L	R	L	T	TR
Maximum Queue (ft)	43	169	153	124	165
Average Queue (ft)	8	52	70	49	75
95th Queue (ft)	29	117	131	97	155
Link Distance (ft)	287	287	156	156	154
Upstream Blk Time (%)			2	0	1
Queuing Penalty (veh)			4	0	6
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 6: State Street & Chapel Street

Movement	EB	EB	WB	WB	NB	NB	SB	SB
Directions Served	L	TR	L	TR	L	TR	L	TR
Maximum Queue (ft)	132	186	170	297	166	300	98	168
Average Queue (ft)	57	63	45	184	52	145	39	132
95th Queue (ft)	133	133	133	316	132	248	81	186
Link Distance (ft)		560		285		489	156	156
Upstream Blk Time (%)				9				10
Queuing Penalty (veh)				41				30
Storage Bay Dist (ft)	180		120		120			
Storage Blk Time (%)	3	0		32	0	15		
Queuing Penalty (veh)	3	0		13	1	7		

Intersection: 7: State Street & Crown Street

Movement	NB	NB	SB
Directions Served	L	T	TR
Maximum Queue (ft)	53	34	32
Average Queue (ft)	16	2	1
95th Queue (ft)	45	16	15
Link Distance (ft)		273	489
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	100		
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 8: State Street & George Street/Fair Street

Movement	EB	EB	EB	WB	NB	B38	SB	SB
Directions Served	LT	R	R	LTR	TR	T	LT	TR
Maximum Queue (ft)	266	152	113	179	126	192	112	134
Average Queue (ft)	127	77	11	74	100	49	46	61
95th Queue (ft)	211	133	60	147	132	133	93	110
Link Distance (ft)	346	346	346	368	42	261		273
Upstream Blk Time (%)					47			
Queuing Penalty (veh)					125			
Storage Bay Dist (ft)							100	
Storage Blk Time (%)							1	1
Queuing Penalty (veh)							2	2

Intersection: 9: N. Frontage Road/Water Street & State Street

Movement	WB	WB	NB	NB	SB	SB	SB
Directions Served	L	R	T	R	L	T	T
Maximum Queue (ft)	197	125	163	95	87	94	98
Average Queue (ft)	87	40	66	35	25	41	36
95th Queue (ft)	159	101	126	78	63	79	84
Link Distance (ft)	306		213	213		261	261
Upstream Blk Time (%)			0				
Queuing Penalty (veh)			0				
Storage Bay Dist (ft)		100			275		
Storage Blk Time (%)	8	1					
Queuing Penalty (veh)	5	1					

Intersection: 26: State Street & Audobon Street

Movement	EB	EB	WB	NB	SB	SB
Directions Served	L	TR	LTR	TR	L	T
Maximum Queue (ft)	64	57	10	118	22	174
Average Queue (ft)	24	20	1	37	1	80
95th Queue (ft)	55	47	5	90	12	144
Link Distance (ft)	182	182	151	264		370
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)					100	
Storage Blk Time (%)						3
Queuing Penalty (veh)						0

Intersection: 35: State Street & Trumbull Street

Movement	SE	SE	NE	SW	SW
Directions Served	LT	R	TR	L	T
Maximum Queue (ft)	33	52	25	32	48
Average Queue (ft)	8	23	1	5	3
95th Queue (ft)	28	48	12	24	23
Link Distance (ft)	177	177	370		238
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)				100	
Storage Blk Time (%)					
Queuing Penalty (veh)					

Zone Summary

Zone wide Queuing Penalty: 271

Summary of All Intervals

Run Number	1	2	3	4	5	Avg
Start Time	4:57	4:57	4:57	4:57	4:57	4:57
End Time	6:00	6:00	6:00	6:00	6:00	6:00
Total Time (min)	63	63	63	63	63	63
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	5208	5244	5045	5231	5171	5176
Vehs Exited	5126	5187	4997	5189	5110	5123
Starting Vehs	163	145	139	152	146	149
Ending Vehs	245	202	187	194	207	206
Travel Distance (mi)	1889	1841	1839	1871	1860	1860
Travel Time (hr)	216.0	192.4	186.7	197.3	176.6	193.8
Total Delay (hr)	133.9	112.3	106.7	115.8	95.5	112.8
Total Stops	9034	8606	8748	8918	8475	8754
Fuel Used (gal)	101.6	95.1	93.2	96.9	92.0	95.8

Interval #0 Information Seeding

Start Time	4:57
End Time	5:00
Total Time (min)	3
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	5:00					
End Time	6:00					
Total Time (min)	60					
Volumes adjusted by Growth Factors.						
Run Number	1	2	3	4	5	Avg
Vehs Entered	5208	5244	5045	5231	5171	5176
Vehs Exited	5126	5187	4997	5189	5110	5123
Starting Vehs	163	145	139	152	146	149
Ending Vehs	245	202	187	194	207	206
Travel Distance (mi)	1889	1841	1839	1871	1860	1860
Travel Time (hr)	216.0	192.4	186.7	197.3	176.6	193.8
Total Delay (hr)	133.9	112.3	106.7	115.8	95.5	112.8
Total Stops	9034	8606	8748	8918	8475	8754
Fuel Used (gal)	101.6	95.1	93.2	96.9	92.0	95.8

1: State Street & Grove Street/Olive Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	12.6	0.2	0.0	0.6	1.0
Total Del/Veh (s)	208.8	40.2	20.1	19.1	33.4

2: State Street & Wall Street Performance by approach

Approach	NB	SB	All
Denied Del/Veh (s)	0.0	0.0	0.0
Total Del/Veh (s)	6.3	1.7	4.9

3: State Street & Elm Street/Grand Avenue Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	2.1	0.2	18.9	0.0	5.8
Total Del/Veh (s)	64.1	37.5	28.4	15.2	43.2

4: State Street & Court Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.2	0.1	0.0	0.6	0.3
Total Del/Veh (s)	32.1	38.5	9.0	12.1	12.1

5: State Street & Pitkin Tunnel Performance by approach

Approach	EB	NB	SB	All
Denied Del/Veh (s)	0.2	0.0	0.0	0.0
Total Del/Veh (s)	35.8	14.6	8.7	15.7

6: State Street & Chapel Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	1.2	0.0	0.0	0.8	0.5
Total Del/Veh (s)	60.3	53.3	20.4	18.5	30.7

7: State Street & Crown Street Performance by approach

Approach	NB	SB	All
Denied Del/Veh (s)	0.0	0.1	0.1
Total Del/Veh (s)	1.8	2.2	2.0

8: State Street & George Street/Fair Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	4.5	0.2	0.0	0.0	2.0
Total Del/Veh (s)	48.9	32.5	28.5	25.1	36.9

9: N. Frontage Road/Water Street & State Street Performance by approach

Approach	WB	NB	SB	All
Denied Del/Veh (s)	0.0	0.2	0.0	0.1
Total Del/Veh (s)	30.0	13.3	11.2	14.7

17: State Street & Audobon Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.0
Total Del/Veh (s)	19.4	17.5	9.1	5.9	9.2

37: State Street & Trumbull Street Performance by approach

Approach	SE	NE	SW	All
Denied Del/Veh (s)	0.1	0.0	0.7	0.2
Total Del/Veh (s)	8.0	4.5	2.8	4.2

Total Zone Performance

Denied Del/Veh (s)	4.5
Total Del/Veh (s)	1063.3

Arterial Level of Service: NB State Street

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
	38	2.9	11.7	0.1	19
Fair Street	8	28.6	31.7	0.0	2
Crown Street	7	1.7	12.0	0.1	22
Chapel Street	6	16.5	31.3	0.1	12
Pitkin Tunnel	5	1.6	7.7	0.0	20
Court Street	4	4.6	10.3	0.0	14
	23	11.4	19.3	0.1	10
Grand Avenue	3	28.5	53.4	0.0	4
Wall Street	2	2.6	16.7	0.1	20
Olive Street	1	17.0	27.5	0.1	10
	17	10.5	19.9	0.1	12
Trumbull Street	37	5.9	18.4	0.1	16
Total		131.9	260.0	0.8	11

Arterial Level of Service: SB State Street

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Trumbull Street	37	0.4	7.5	0.0	25
Audobon Street	17	5.9	17.8	0.1	17
Grove Street	1	11.3	20.3	0.1	13
Wall Street	2	1.8	13.0	0.1	21
Elm Street	3	6.7	20.2	0.1	17
	23	1.2	6.6	0.0	21
Court Street	4	12.1	20.5	0.1	10
Pitkin Tunnel	5	8.5	14.0	0.0	10
Chapel Street	6	13.0	19.6	0.0	8
Crown Street	7	2.4	16.7	0.1	23
George Street	8	24.5	34.0	0.1	8
	38	1.6	6.1	0.0	13
N. Frontage Road	9	9.0	17.6	0.1	12
Total		98.3	214.0	0.8	14

Intersection: 1: State Street & Grove Street/Olive Street

Movement	EB	WB	WB	NB	NB	SB	SB
Directions Served	LTR	LT	R	L	TR	L	TR
Maximum Queue (ft)	371	191	164	220	357	149	280
Average Queue (ft)	186	88	77	103	276	91	154
95th Queue (ft)	540	153	140	223	390	158	259
Link Distance (ft)	777	361	361		345		264
Upstream Blk Time (%)	7				1		1
Queuing Penalty (veh)	0				11		5
Storage Bay Dist (ft)				170		100	
Storage Blk Time (%)				0	18	11	11
Queuing Penalty (veh)				1	17	56	12

Intersection: 2: State Street & Wall Street

Movement	NB	NB	SB
Directions Served	L	T	TR
Maximum Queue (ft)	45	474	63
Average Queue (ft)	14	94	3
95th Queue (ft)	41	339	26
Link Distance (ft)		445	345
Upstream Blk Time (%)		1	
Queuing Penalty (veh)		5	
Storage Bay Dist (ft)	110		
Storage Blk Time (%)		1	
Queuing Penalty (veh)		1	

Intersection: 3: State Street & Elm Street/Grand Avenue

Movement	EB	EB	EB	WB	WB	NB	B23	SB	SB
Directions Served	L	T	TR	L	R	TR	T	L	T
Maximum Queue (ft)	543	415	450	235	142	219	242	105	142
Average Queue (ft)	305	230	232	114	11	188	104	43	38
95th Queue (ft)	608	493	442	207	73	231	260	86	102
Link Distance (ft)	778	778	778	576	576	126	230		445
Upstream Blk Time (%)	5	3	0			39	4		
Queuing Penalty (veh)	0	0	0			205	23		
Storage Bay Dist (ft)								240	
Storage Blk Time (%)									0
Queuing Penalty (veh)									0

Intersection: 4: State Street & Court Street

Movement	EB	WB	NB	SB	B23
Directions Served	LTR	LTR	TR	T	T
Maximum Queue (ft)	100	62	167	297	81
Average Queue (ft)	42	16	119	170	11
95th Queue (ft)	87	48	186	282	71
Link Distance (ft)	462	567	154	230	126
Upstream Blk Time (%)			5	5	1
Queuing Penalty (veh)			26	34	8
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 5: State Street & Pitkin Tunnel

Movement	EB	EB	NB	NB	SB
Directions Served	L	R	L	T	TR
Maximum Queue (ft)	196	177	154	137	170
Average Queue (ft)	92	66	79	58	98
95th Queue (ft)	187	132	146	112	182
Link Distance (ft)	287	287	156	156	154
Upstream Blk Time (%)	0		3	0	4
Queuing Penalty (veh)	0		8	0	28
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 6: State Street & Chapel Street

Movement	EB	EB	WB	WB	NB	NB	SB	SB
Directions Served	L	TR	L	TR	L	TR	L	TR
Maximum Queue (ft)	202	229	169	284	170	341	145	171
Average Queue (ft)	78	109	52	164	53	145	75	135
95th Queue (ft)	162	186	138	283	121	261	130	192
Link Distance (ft)		560		285		489	156	156
Upstream Blk Time (%)				5			0	10
Queuing Penalty (veh)				15			1	38
Storage Bay Dist (ft)	180		120		120			
Storage Blk Time (%)	4	1	0	31		13		
Queuing Penalty (veh)	7	1	1	13		6		

Intersection: 7: State Street & Crown Street

Movement	NB	NB	SB
Directions Served	L	T	TR
Maximum Queue (ft)	57	45	87
Average Queue (ft)	21	3	3
95th Queue (ft)	51	26	35
Link Distance (ft)		273	489
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	60		
Storage Blk Time (%)	0	0	
Queuing Penalty (veh)	1	0	

Intersection: 8: State Street & George Street/Fair Street

Movement	EB	EB	EB	WB	NB	B38	SB	SB
Directions Served	LT	R	R	LTR	TR	T	LT	TR
Maximum Queue (ft)	373	356	227	164	110	114	194	205
Average Queue (ft)	276	169	64	65	84	24	106	110
95th Queue (ft)	415	332	176	124	128	79	173	188
Link Distance (ft)	346	346	346	368	42	261		273
Upstream Blk Time (%)	15	5			38			0
Queuing Penalty (veh)	0	0			98			1
Storage Bay Dist (ft)							140	
Storage Blk Time (%)							3	3
Queuing Penalty (veh)							10	9

Intersection: 9: N. Frontage Road/Water Street & State Street

Movement	WB	WB	NB	NB	SB	SB	SB
Directions Served	L	R	T	R	L	T	T
Maximum Queue (ft)	195	125	166	158	164	114	120
Average Queue (ft)	83	31	72	58	66	69	66
95th Queue (ft)	144	81	142	119	124	108	110
Link Distance (ft)	306		213	213		261	261
Upstream Blk Time (%)			0	0			
Queuing Penalty (veh)			0	0			
Storage Bay Dist (ft)		100			275		
Storage Blk Time (%)	6	0					
Queuing Penalty (veh)	3	0					

Intersection: 17: State Street & Audobon Street

Movement	EB	EB	WB	NB	SB
Directions Served	L	TR	LTR	TR	T
Maximum Queue (ft)	93	92	33	247	202
Average Queue (ft)	39	35	6	161	88
95th Queue (ft)	77	70	20	258	164
Link Distance (ft)	182	182	151	264	370
Upstream Blk Time (%)					0
Queuing Penalty (veh)					1
Storage Bay Dist (ft)					
Storage Blk Time (%)					3
Queuing Penalty (veh)					0

Intersection: 37: State Street & Trumbull Street

Movement	SE	SE	NE	SW	SW
Directions Served	LT	R	TR	L	T
Maximum Queue (ft)	38	62	146	69	60
Average Queue (ft)	11	30	14	27	4
95th Queue (ft)	35	56	72	58	27
Link Distance (ft)	177	177	370		238
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)					100
Storage Blk Time (%)				0	0
Queuing Penalty (veh)				0	0

Zone Summary

Zone wide Queuing Penalty: 642

Summary of All Intervals

Run Number	1	2	3	4	5	Avg
Start Time	6:57	6:57	6:57	6:57	6:57	6:57
End Time	8:00	8:00	8:00	8:00	8:00	8:00
Total Time (min)	63	63	63	63	63	63
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	4146	4305	4106	4185	4057	4160
Vehs Exited	4132	4270	4101	4203	4005	4142
Starting Vehs	113	103	132	145	106	115
Ending Vehs	127	138	137	127	158	128
Travel Distance (mi)	1474	1530	1448	1505	1436	1479
Travel Time (hr)	133.4	140.9	130.3	138.3	130.1	134.6
Total Delay (hr)	68.4	73.1	66.0	71.7	66.5	69.1
Total Stops	6543	7039	6555	6934	6475	6709
Fuel Used (gal)	73.0	75.7	71.3	75.0	70.4	73.1

Interval #0 Information Seeding

Start Time	6:57
End Time	7:00
Total Time (min)	3
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	7:00					
End Time	8:00					
Total Time (min)	60					
Volumes adjusted by Growth Factors.						
Run Number	1	2	3	4	5	Avg
Vehs Entered	4146	4305	4106	4185	4057	4160
Vehs Exited	4132	4270	4101	4203	4005	4142
Starting Vehs	113	103	132	145	106	115
Ending Vehs	127	138	137	127	158	128
Travel Distance (mi)	1474	1530	1448	1505	1436	1479
Travel Time (hr)	133.4	140.9	130.3	138.3	130.1	134.6
Total Delay (hr)	68.4	73.1	66.0	71.7	66.5	69.1
Total Stops	6543	7039	6555	6934	6475	6709
Fuel Used (gal)	73.0	75.7	71.3	75.0	70.4	73.1

1: State Street & Grove Street/Olive Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.1	0.1	0.0	0.8	0.4
Total Del/Veh (s)	28.2	27.4	16.6	16.7	18.7

2: State Street & Wall Street Performance by approach

Approach	NB	SB	All
Denied Del/Veh (s)	0.0	0.0	0.0
Total Del/Veh (s)	3.8	1.9	3.0

3: State Street & Elm Street/Grand Avenue Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.2	2.0	0.0	0.0	0.4
Total Del/Veh (s)	25.6	22.4	30.4	13.3	23.5

4: State Street & Court Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.0
Total Del/Veh (s)	36.7	18.2	2.0	14.5	11.6

5: State Street & Pitkin Tunnel Performance by approach

Approach	EB	NB	SB	All
Denied Del/Veh (s)	0.2	0.0	0.0	0.0
Total Del/Veh (s)	57.6	16.2	2.7	13.2

6: State Street & Chapel Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.2	0.0	0.0	0.0	0.0
Total Del/Veh (s)	40.4	24.3	29.3	36.5	31.5

7: State Street & Crown Street Performance by approach

Approach	WB	SB	All
Denied Del/Veh (s)	0.0	0.0	0.0
Total Del/Veh (s)	6.5	1.3	1.9

8: State Street & George Street/Fair Street Performance by approach

Approach	EB	SB	All
Denied Del/Veh (s)	0.2	0.0	0.1
Total Del/Veh (s)	30.6	22.7	27.0

9: N. Frontage Road/Water Street & State Street & State Street N Performance by approach

Approach	WB	NB	SB	All
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Del/Veh (s)	36.7	21.2	18.4	23.1

10: State Street N & Crown Street Performance by approach

Approach	NB	All
Denied Del/Veh (s)	0.0	0.0
Total Del/Veh (s)	1.1	1.1

11: State Street N & Fair Street Performance by approach

Approach	EB	WB	NB	All
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Del/Veh (s)	5.7	5.4	23.0	14.0

26: State Street & Parking/Audubon Performance by approach

Approach	SE	NW	NE	SW	All
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.0
Total Del/Veh (s)	19.6	24.0	6.6	17.1	12.4

35: State Street Performance by approach

Approach	SE	NE	SW	All
Denied Del/Veh (s)	0.1	0.0	0.4	0.2
Total Del/Veh (s)	5.5	1.2	0.4	1.0

Total Zone Performance

Denied Del/Veh (s)	0.6
Total Del/Veh (s)	353.6

Intersection: 1: State Street & Grove Street/Olive Street

Movement	EB	WB	WB	NB	NB	NB	SB	SB	SB
Directions Served	LTR	LT	TR	L	T	TR	L	T	TR
Maximum Queue (ft)	92	166	148	163	152	150	115	225	244
Average Queue (ft)	32	80	49	76	68	75	36	49	119
95th Queue (ft)	71	140	104	136	128	133	85	144	228
Link Distance (ft)	766	332	332		352	352		273	273
Upstream Blk Time (%)								0	0
Queuing Penalty (veh)								0	0
Storage Bay Dist (ft)				295			118		
Storage Blk Time (%)							0	0	
Queuing Penalty (veh)							0	0	

Intersection: 2: State Street & Wall Street

Movement	NB	NB	NB	SB	SB
Directions Served	L	T	T	T	TR
Maximum Queue (ft)	63	29	12	17	38
Average Queue (ft)	17	1	1	1	2
95th Queue (ft)	48	12	8	9	19
Link Distance (ft)		425	425	352	352
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	147				
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 3: State Street & Elm Street/Grand Avenue

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB
Directions Served	L	T	TR	L	L	R	T	TR	LT	T
Maximum Queue (ft)	258	181	206	119	252	105	143	157	123	160
Average Queue (ft)	132	107	95	20	97	30	75	69	24	63
95th Queue (ft)	215	167	172	71	189	107	133	128	73	136
Link Distance (ft)	766	766	766	552	552		410	410	425	425
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)						80				
Storage Blk Time (%)					13	0				
Queuing Penalty (veh)					18	0				

Intersection: 4: State Street & Court Street

Movement	EB	WB	NB	NB	SB	SB	SB
Directions Served	LTR	LTR	T	TR	L	T	T
Maximum Queue (ft)	89	61	60	57	59	183	303
Average Queue (ft)	33	29	14	19	13	29	147
95th Queue (ft)	70	59	45	50	40	102	260
Link Distance (ft)	427	550	152	152		410	410
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)					93		
Storage Blk Time (%)						0	
Queuing Penalty (veh)						0	

Intersection: 5: State Street & Pitkin Tunnel

Movement	EB	EB	NB	NB	NB	SB	SB	SB
Directions Served	L	R	L	T	T	T	T	TR
Maximum Queue (ft)	45	200	136	135	88	35	40	77
Average Queue (ft)	12	91	76	36	33	3	7	24
95th Queue (ft)	37	161	131	104	76	18	29	61
Link Distance (ft)	270	270		150	150	152	152	152
Upstream Blk Time (%)			0	1				
Queuing Penalty (veh)			0	3				
Storage Bay Dist (ft)			120					
Storage Blk Time (%)			6	0				
Queuing Penalty (veh)			10	0				

Intersection: 6: State Street & Chapel Street

Movement	EB	WB	WB	NB	NB	NB	SB	SB	SB	SB
Directions Served	LTR	LT	TR	L	T	TR	L	T	T	R
Maximum Queue (ft)	206	175	195	143	188	173	110	150	176	161
Average Queue (ft)	88	89	100	42	90	85	48	106	128	98
95th Queue (ft)	166	150	172	104	161	149	95	168	180	158
Link Distance (ft)	536	276	276		185	185	150	150	150	150
Upstream Blk Time (%)					1	0	0	0	5	2
Queuing Penalty (veh)					2	1	0	1	8	3
Storage Bay Dist (ft)				126						
Storage Blk Time (%)				0	4					
Queuing Penalty (veh)				0	2					

Intersection: 7: State Street & Crown Street

Movement	WB	WB	SB	SB
Directions Served	LT	T	T	TR
Maximum Queue (ft)	56	53	9	56
Average Queue (ft)	30	10	0	3
95th Queue (ft)	51	37	6	25
Link Distance (ft)	61	61	246	246
Upstream Blk Time (%)	0	0		
Queuing Penalty (veh)	0	0		
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 8: State Street & George Street/Fair Street

Movement	EB	EB	EB	SB	SB
Directions Served	T	TR	R	LT	TR
Maximum Queue (ft)	217	240	189	200	256
Average Queue (ft)	99	140	57	53	142
95th Queue (ft)	179	217	156	133	247
Link Distance (ft)	381	381	381	337	337
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 9: N. Frontage Road/Water Street & State Street & State Street N

Movement	WB	WB	NB	NB	B34	B34	SB	SB	SB	SB
Directions Served	L	>	R	R>	T	T	L	T	T	T
Maximum Queue (ft)	198	105	130	121	84	15	87	152	162	116
Average Queue (ft)	72	44	88	58	8	1	37	75	77	36
95th Queue (ft)	150	86	135	107	43	9	77	136	140	94
Link Distance (ft)	224	224	54	54	134	134	360	360	360	
Upstream Blk Time (%)	0		29	18	0					
Queuing Penalty (veh)	0		0	0	0					
Storage Bay Dist (ft)										255
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 10: State Street N & Crown Street

Movement	NB
Directions Served	L
Maximum Queue (ft)	6
Average Queue (ft)	0
95th Queue (ft)	4
Link Distance (ft)	230
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 11: State Street N & Fair Street

Movement	EB	EB	WB	NB	NB	NB
Directions Served	L	T	R	T	T	TR
Maximum Queue (ft)	93	74	50	100	152	127
Average Queue (ft)	25	17	11	28	77	53
95th Queue (ft)	68	55	37	75	137	111
Link Distance (ft)	186	186	74	365	365	365
Upstream Blk Time (%)			0			
Queuing Penalty (veh)			0			
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 26: State Street & Parking/Audubon

Movement	SE	SE	NW	NE	NE	SW	SW
Directions Served	L	TR	LTR	T	TR	L	T
Maximum Queue (ft)	65	57	31	82	80	27	304
Average Queue (ft)	24	16	2	29	31	3	162
95th Queue (ft)	56	45	15	68	70	16	269
Link Distance (ft)	271	271	194	273	273	362	362
Upstream Blk Time (%)						0	
Queuing Penalty (veh)						0	
Storage Bay Dist (ft)							
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 35: State Street

Movement	SE	SE	NE	SW	SW
Directions Served	LT	R	R	L	T
Maximum Queue (ft)	29	44	6	43	10
Average Queue (ft)	5	21	0	7	1
95th Queue (ft)	20	43	3	29	8
Link Distance (ft)	240	240	362	157	157
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Zone Summary

Zone wide Queuing Penalty: 49

Summary of All Intervals

Run Number	1	2	3	4	5	Avg
Start Time	4:57	4:57	4:57	4:57	4:57	4:57
End Time	6:00	6:00	6:00	6:00	6:00	6:00
Total Time (min)	63	63	63	63	63	63
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	5399	5647	5444	5586	5393	5494
Vehs Exited	5341	5581	5392	5540	5337	5437
Starting Vehs	168	157	174	177	147	163
Ending Vehs	226	223	226	223	203	215
Travel Distance (mi)	2011	2081	2052	2078	2041	2053
Travel Time (hr)	202.7	202.8	209.7	218.3	213.9	209.5
Total Delay (hr)	114.0	111.3	119.5	126.6	124.2	119.1
Total Stops	9898	10338	10390	10312	10153	10217
Fuel Used (gal)	104.3	106.6	107.4	110.2	107.8	107.2

Interval #0 Information Seeding

Start Time	4:57
End Time	5:00
Total Time (min)	3
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	5:00					
End Time	6:00					
Total Time (min)	60					
Volumes adjusted by Growth Factors.						
Run Number	1	2	3	4	5	Avg
Vehs Entered	5399	5647	5444	5586	5393	5494
Vehs Exited	5341	5581	5392	5540	5337	5437
Starting Vehs	168	157	174	177	147	163
Ending Vehs	226	223	226	223	203	215
Travel Distance (mi)	2011	2081	2052	2078	2041	2053
Travel Time (hr)	202.7	202.8	209.7	218.3	213.9	209.5
Total Delay (hr)	114.0	111.3	119.5	126.6	124.2	119.1
Total Stops	9898	10338	10390	10312	10153	10217
Fuel Used (gal)	104.3	106.6	107.4	110.2	107.8	107.2

1: State Street & Grove Street/Olive Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.2	0.1	0.0	0.1	0.1
Total Del/Veh (s)	40.8	25.9	20.7	21.8	23.0

2: State Street & Wall Street Performance by approach

Approach	NB	SB	All
Denied Del/Veh (s)	0.0	0.0	0.0
Total Del/Veh (s)	4.1	1.3	3.3

3: State Street & Elm Street/Grand Avenue Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.2	1.8	0.0	0.0	0.3
Total Del/Veh (s)	29.0	31.2	27.5	19.7	27.3

4: State Street & Court Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.1	0.1	0.0	0.2	0.1
Total Del/Veh (s)	38.6	22.1	6.9	21.9	17.1

5: State Street & Pitkin Tunnel Performance by approach

Approach	EB	NB	SB	All
Denied Del/Veh (s)	57.7	0.0	0.0	11.0
Total Del/Veh (s)	128.0	14.2	2.7	29.6

6: State Street & Chapel Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.3	0.0	0.0	0.1	0.1
Total Del/Veh (s)	43.5	33.1	34.7	35.9	36.1

7: State Street & Crown Street Performance by approach

Approach	WB	SB	All
Denied Del/Veh (s)	0.0	0.1	0.1
Total Del/Veh (s)	8.0	1.7	2.3

8: State Street & George Street/Fair Street Performance by approach

Approach	EB	SB	All
Denied Del/Veh (s)	0.3	0.0	0.2
Total Del/Veh (s)	34.9	34.6	34.8

9: State Street & N. Frontage Road/Water Street Performance by approach

Approach	WB	NB	SB	All
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Del/Veh (s)	23.8	23.0	17.3	19.7

10: State Street/State Street N & Crown Street Performance by approach

Approach	NB	All
Denied Del/Veh (s)	0.0	0.0
Total Del/Veh (s)	1.0	1.0

11: State Street & Fair Street Performance by approach

Approach	EB	WB	NB	All
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Del/Veh (s)	15.6	4.5	24.3	18.4

17: State Street & Parking & Audubon Performance by approach

Approach	NB	SE	NE	SW	All
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.0
Total Del/Veh (s)	10.7	12.6	9.4	19.2	12.5

37: State Street & Trumbull St Performance by approach

Approach	SE	NE	SW	All
Denied Del/Veh (s)	0.1	0.1	0.8	0.3
Total Del/Veh (s)	7.1	5.7	2.9	5.0

Total Zone Performance

Denied Del/Veh (s)	4.8
Total Del/Veh (s)	1139.4

Arterial Level of Service: NB State Street

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Chapel Street	6	1.9	3.5	0.0	75
Pitkin Tunnel	5	1.8	8.1	0.0	18
Court Street	4	7.2	13.1	0.0	11
Grand Avenue	3	28.2	40.7	0.1	8
Wall Street	2	2.4	16.4	0.1	21
Olive Street	1	18.4	29.1	0.1	10
Parking	17	7.1	15.8	0.1	16
	37	2.4	15.3	0.1	20
Total		69.4	141.9	0.5	14

Arterial Level of Service: SB State Street

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Trumbull St	37	0.4	8.7	0.1	26
Audubon	17	19.2	30.9	0.1	10
Grove Street	1	16.6	25.3	0.1	10
Wall Street	2	1.4	12.7	0.1	22
Elm Street	3	19.7	33.3	0.1	10
Court Street	4	18.8	31.9	0.1	11
Pitkin Tunnel	5	2.2	7.6	0.0	19
Chapel Street	6	31.8	37.7	0.0	4
Total		110.1	188.2	0.6	11

Intersection: 1: State Street & Grove Street/Olive Street

Movement	EB	WB	WB	NB	NB	NB	SB	SB	SB
Directions Served	LTR	LT	TR	L	T	TR	L	T	TR
Maximum Queue (ft)	183	167	133	172	339	358	132	128	165
Average Queue (ft)	78	73	49	65	160	206	66	41	84
95th Queue (ft)	151	130	97	126	282	316	118	97	147
Link Distance (ft)	767	335	335		352	352		234	234
Upstream Blk Time (%)					0	0			
Queuing Penalty (veh)					0	1			
Storage Bay Dist (ft)				295			118		
Storage Blk Time (%)					0		3	0	
Queuing Penalty (veh)					0		5	0	

Intersection: 2: State Street & Wall Street

Movement	NB	NB	NB	SB	SB
Directions Served	L	T	T	T	TR
Maximum Queue (ft)	53	77	71	17	57
Average Queue (ft)	13	5	6	1	3
95th Queue (ft)	41	44	36	9	24
Link Distance (ft)		425	425	352	352
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	147				
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 3: State Street & Elm Street/Grand Avenue

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB
Directions Served	L	T	TR	L	L	R	T	TR	LT	T
Maximum Queue (ft)	367	286	273	147	246	105	210	219	155	259
Average Queue (ft)	190	168	155	28	107	37	107	116	46	108
95th Queue (ft)	302	253	247	80	200	119	171	183	119	216
Link Distance (ft)	766	766	766	552	552		410	410	425	425
Upstream Blk Time (%)										
Queuing Penalty (veh)										
Storage Bay Dist (ft)						80				
Storage Blk Time (%)					19	0				
Queuing Penalty (veh)					23	0				

Intersection: 4: State Street & Court Street

Movement	EB	WB	NB	NB	SB	SB	SB
Directions Served	LTR	LTR	T	TR	L	T	T
Maximum Queue (ft)	117	49	159	152	76	343	412
Average Queue (ft)	46	16	58	61	19	79	216
95th Queue (ft)	96	43	122	127	52	252	407
Link Distance (ft)	420	550	152	152		410	410
Upstream Blk Time (%)			0	1		0	0
Queuing Penalty (veh)			1	2		0	2
Storage Bay Dist (ft)					93		
Storage Blk Time (%)						0	
Queuing Penalty (veh)						0	

Intersection: 5: State Street & Pitkin Tunnel

Movement	EB	EB	NB	NB	NB	SB	SB	SB
Directions Served	L	R	L	T	T	T	T	TR
Maximum Queue (ft)	288	301	142	172	112	35	68	154
Average Queue (ft)	148	244	84	24	27	4	8	35
95th Queue (ft)	310	353	136	96	70	21	39	101
Link Distance (ft)	270	270		150	150	152	152	152
Upstream Blk Time (%)	14	45	1	1	0		0	0
Queuing Penalty (veh)	0	0	0	3	0		0	0
Storage Bay Dist (ft)			120					
Storage Blk Time (%)			8	0				
Queuing Penalty (veh)			17	0				

Intersection: 6: State Street & Chapel Street

Movement	EB	WB	WB	NB	NB	NB	SB	SB	SB	SB
Directions Served	LTR	LT	TR	L	T	TR	L	T	T	R
Maximum Queue (ft)	304	187	177	150	201	196	159	152	179	164
Average Queue (ft)	156	94	92	42	126	129	84	110	128	104
95th Queue (ft)	272	156	157	105	197	187	143	170	181	160
Link Distance (ft)	536	276	276		185	185	150	150	150	150
Upstream Blk Time (%)					2	2	1	1	5	3
Queuing Penalty (veh)					6	5	3	3	11	6
Storage Bay Dist (ft)				126						
Storage Blk Time (%)				0	9					
Queuing Penalty (veh)				0	5					

Intersection: 7: State Street & Crown Street

Movement	WB	WB	SB	SB
Directions Served	LT	T	T	TR
Maximum Queue (ft)	63	45	43	74
Average Queue (ft)	33	11	3	6
95th Queue (ft)	57	37	28	42
Link Distance (ft)	61	61	246	246
Upstream Blk Time (%)	0	0		
Queuing Penalty (veh)	0	0		
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 8: State Street & George Street/Fair Street

Movement	EB	EB	EB	SB	SB
Directions Served	T	TR	R	LT	TR
Maximum Queue (ft)	304	371	276	319	346
Average Queue (ft)	135	235	145	153	232
95th Queue (ft)	236	332	269	291	345
Link Distance (ft)	381	381	381	337	337
Upstream Blk Time (%)	0	0		0	1
Queuing Penalty (veh)	0	0		0	3
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 9: State Street & N. Frontage Road/Water Street

Movement	WB	WB	NB	NB	B34	B34	SB	SB	SB	SB
Directions Served	L	>	R	R>	T	T	L	T	T	T
Maximum Queue (ft)	161	79	130	133	70	95	202	180	178	140
Average Queue (ft)	69	24	88	92	8	12	105	91	96	58
95th Queue (ft)	131	61	136	144	39	54	178	152	161	117
Link Distance (ft)	224	224	54	54	134	134	360	360	360	
Upstream Blk Time (%)			30	36		0				
Queuing Penalty (veh)			0	0		0				
Storage Bay Dist (ft)										255
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 10: State Street/State Street N & Crown Street

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 11: State Street & Fair Street

Movement	EB	EB	WB	NB	NB	NB
Directions Served	L	T	R	T	T	TR
Maximum Queue (ft)	194	202	43	88	146	126
Average Queue (ft)	128	116	6	25	70	57
95th Queue (ft)	196	188	28	65	119	107
Link Distance (ft)	186	186	74	365	365	365
Upstream Blk Time (%)	1	1				
Queuing Penalty (veh)	2	2				
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 17: State Street & Parking & Audubon

Movement	NB	SE	SE	NE	NE	SW
Directions Served	<LR	L	R>	T	TR	T
Maximum Queue (ft)	18	79	71	221	243	356
Average Queue (ft)	2	30	29	59	102	180
95th Queue (ft)	10	67	59	168	194	296
Link Distance (ft)	82	179	179	234	234	375
Upstream Blk Time (%)				0	0	0
Queuing Penalty (veh)				0	1	0
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 37: State Street & Trumbull St

Movement	SE	SE	NE	NE	SW	SW
Directions Served	<LR	R	T	TR	L	T
Maximum Queue (ft)	32	67	95	224	89	12
Average Queue (ft)	12	32	3	19	29	0
95th Queue (ft)	35	54	58	111	70	6
Link Distance (ft)	257	257	375	375		284
Upstream Blk Time (%)			0	0		
Queuing Penalty (veh)			0	0		
Storage Bay Dist (ft)					100	
Storage Blk Time (%)					0	
Queuing Penalty (veh)					1	

Zone Summary

Zone wide Queuing Penalty: 103

Summary of All Intervals

Run Number	1	2	3	4	5	Avg
Start Time	6:57	6:57	6:57	6:57	6:57	6:57
End Time	8:00	8:00	8:00	8:00	8:00	8:00
Total Time (min)	63	63	63	63	63	63
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	4282	4260	4166	4284	4225	4238
Vehs Exited	4278	4228	4175	4205	4195	4212
Starting Vehs	143	118	131	103	123	123
Ending Vehs	147	150	122	182	153	144
Travel Distance (mi)	1516	1491	1467	1481	1476	1486
Travel Time (hr)	144.5	163.3	136.3	140.0	131.8	143.2
Total Delay (hr)	78.4	98.3	72.4	75.3	67.4	78.4
Total Stops	6472	6122	6132	6226	6091	6207
Fuel Used (gal)	74.9	78.6	71.1	73.2	70.9	73.7

Interval #0 Information Seeding

Start Time	6:57
End Time	7:00
Total Time (min)	3
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	7:00					
End Time	8:00					
Total Time (min)	60					
Volumes adjusted by Growth Factors.						
Run Number	1	2	3	4	5	Avg
Vehs Entered	4282	4260	4166	4284	4225	4238
Vehs Exited	4278	4228	4175	4205	4195	4212
Starting Vehs	143	118	131	103	123	123
Ending Vehs	147	150	122	182	153	144
Travel Distance (mi)	1516	1491	1467	1481	1476	1486
Travel Time (hr)	144.5	163.3	136.3	140.0	131.8	143.2
Total Delay (hr)	78.4	98.3	72.4	75.3	67.4	78.4
Total Stops	6472	6122	6132	6226	6091	6207
Fuel Used (gal)	74.9	78.6	71.1	73.2	70.9	73.7

1: State Street & Grove Street/Olive Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.1	0.2	0.0	2.3	1.1
Total Del/Veh (s)	55.5	49.3	11.8	15.2	20.5

2: State Street & Wall Street Performance by approach

Approach	NB	SB	All
Denied Del/Veh (s)	0.0	0.0	0.0
Total Del/Veh (s)	9.7	2.4	6.8

3: State Street & Elm Street/Grand Avenue Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.2	0.2	0.0	0.0	0.1
Total Del/Veh (s)	27.3	29.7	13.3	9.8	20.8

4: State Street & Court Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.2	0.1	0.0	0.0	0.0
Total Del/Veh (s)	26.9	28.0	1.7	6.3	6.5

5: State Street & Pitkin Tunnel Performance by approach

Approach	EB	NB	SB	All
Denied Del/Veh (s)	0.2	0.0	0.0	0.0
Total Del/Veh (s)	36.8	13.8	7.7	12.7

6: State Street & Chapel Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	46.6	0.0	0.0	0.0	4.3
Total Del/Veh (s)	205.0	49.2	29.2	18.9	47.7

7: State Street & Crown Street Performance by approach

Approach	NB	SB	All
Denied Del/Veh (s)	0.0	0.0	0.0
Total Del/Veh (s)	2.2	2.1	2.1

8: State Street & George Street/Fair Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.3	0.2	0.0	0.0	0.1
Total Del/Veh (s)	30.8	32.5	33.5	19.5	28.3

9: N. Frontage Road/Water Street & State Street Performance by approach

Approach	WB	NB	SB	All
Denied Del/Veh (s)	0.1	0.2	0.0	0.1
Total Del/Veh (s)	34.5	13.3	5.8	13.5

26: State Street & Audobon Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.0
Total Del/Veh (s)	17.7	5.2	2.1	5.0	4.6

35: State Street & Trumbull Street Performance by approach

Approach	SE	NE	SW	All
Denied Del/Veh (s)	0.1	0.0	0.5	0.3
Total Del/Veh (s)	5.7	1.7	0.4	1.3

Total Zone Performance

Denied Del/Veh (s)	2.8
Total Del/Veh (s)	324.4

Arterial Level of Service: NB State Street

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
	38	7.0	15.8	0.1	14
Fair Street	8	33.4	36.4	0.0	2
Crown Street	7	2.3	12.3	0.1	21
Chapel Street	6	25.0	39.7	0.1	10
Pitkin Tunnel	5	1.3	7.4	0.0	20
Court Street	4	1.0	6.9	0.0	21
	23	1.1	9.1	0.1	22
Grand Avenue	3	13.2	18.2	0.0	8
Wall Street	2	1.8	15.9	0.1	21
Olive Street	1	6.6	17.0	0.1	16
	26	1.4	10.3	0.1	24
Trumbull Street	35	2.2	13.7	0.1	22
Total		96.1	202.6	0.8	14

Arterial Level of Service: SB State Street

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Trumbull Street	35	0.2	7.4	0.0	26
Audobon Street	26	4.9	16.2	0.1	19
Grove Street	1	14.4	24.0	0.1	11
Wall Street	2	2.5	13.9	0.1	20
Elm Street	3	8.8	22.3	0.1	15
	23	1.3	6.8	0.0	20
Court Street	4	6.2	14.2	0.1	14
Pitkin Tunnel	5	7.3	12.9	0.0	11
Chapel Street	6	17.0	22.9	0.0	7
Crown Street	7	2.4	17.2	0.1	22
George Street	8	18.2	27.7	0.1	9
	38	1.4	6.0	0.0	13
N. Frontage Road	9	4.8	13.1	0.1	17
Total		89.6	204.5	0.8	14

Intersection: 1: State Street & Grove Street/Olive Street

Movement	EB	WB	WB	NB	NB	SB	SB
Directions Served	LTR	LT	R	L	TR	L	TR
Maximum Queue (ft)	98	223	160	148	173	148	215
Average Queue (ft)	37	105	65	69	83	52	142
95th Queue (ft)	90	180	128	125	146	126	208
Link Distance (ft)	777	361	361		345		264
Upstream Blk Time (%)							0
Queuing Penalty (veh)							0
Storage Bay Dist (ft)				170		100	
Storage Blk Time (%)					0	0	24
Queuing Penalty (veh)					0	1	14

Intersection: 2: State Street & Wall Street

Movement	NB	NB	SB
Directions Served	L	T	TR
Maximum Queue (ft)	75	212	93
Average Queue (ft)	33	12	10
95th Queue (ft)	65	122	47
Link Distance (ft)		445	345
Upstream Blk Time (%)		0	
Queuing Penalty (veh)		1	
Storage Bay Dist (ft)	110		
Storage Blk Time (%)	0		
Queuing Penalty (veh)	0		

Intersection: 3: State Street & Elm Street/Grand Avenue

Movement	EB	EB	EB	WB	WB	NB	B23	SB	SB
Directions Served	L	T	TR	L	R	TR	T	L	T
Maximum Queue (ft)	195	176	210	182	219	203	58	63	184
Average Queue (ft)	99	101	125	100	56	114	3	20	91
95th Queue (ft)	173	160	199	160	179	191	28	50	161
Link Distance (ft)	778	778	778	576	576	126	230		445
Upstream Blk Time (%)							5		
Queuing Penalty (veh)							21		
Storage Bay Dist (ft)								240	
Storage Blk Time (%)									
Queuing Penalty (veh)									

Intersection: 4: State Street & Court Street

Movement	EB	WB	NB	SB	B23
Directions Served	LTR	LTR	TR	T	T
Maximum Queue (ft)	78	82	63	266	30
Average Queue (ft)	29	32	15	117	1
95th Queue (ft)	66	70	45	207	21
Link Distance (ft)	462	567	154	230	126
Upstream Blk Time (%)				0	0
Queuing Penalty (veh)				3	0
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 5: State Street & Pitkin Tunnel

Movement	EB	EB	NB	NB	SB
Directions Served	L	R	L	T	TR
Maximum Queue (ft)	49	178	160	139	166
Average Queue (ft)	10	64	73	60	90
95th Queue (ft)	33	134	138	117	174
Link Distance (ft)	287	287	156	156	154
Upstream Blk Time (%)			3	0	1
Queuing Penalty (veh)			7	0	9
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 6: State Street & Chapel Street

Movement	EB	EB	WB	WB	NB	NB	SB	SB
Directions Served	L	TR	L	TR	L	TR	L	TR
Maximum Queue (ft)	214	395	170	298	189	323	99	168
Average Queue (ft)	137	165	60	237	54	165	38	142
95th Queue (ft)	253	496	165	360	134	280	80	189
Link Distance (ft)		560		285		489	156	156
Upstream Blk Time (%)		12		22		1	0	15
Queuing Penalty (veh)		0		113		3	0	47
Storage Bay Dist (ft)	180		120		120			
Storage Blk Time (%)	33	3	0	52	0	19		
Queuing Penalty (veh)	33	2	0	24	1	9		

Intersection: 7: State Street & Crown Street

Movement	NB	NB	SB
Directions Served	L	T	TR
Maximum Queue (ft)	66	66	49
Average Queue (ft)	20	4	2
95th Queue (ft)	53	35	19
Link Distance (ft)		273	489
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	100		
Storage Blk Time (%)	0	1	
Queuing Penalty (veh)	0	1	

Intersection: 8: State Street & George Street/Fair Street

Movement	EB	EB	EB	WB	NB	B38	SB	SB
Directions Served	LT	R	R	LTR	TR	T	LT	TR
Maximum Queue (ft)	256	195	141	159	134	202	131	140
Average Queue (ft)	137	87	20	75	105	64	46	67
95th Queue (ft)	227	156	88	133	129	147	102	121
Link Distance (ft)	346	346	346	368	42	261		273
Upstream Blk Time (%)					51			
Queuing Penalty (veh)					150			
Storage Bay Dist (ft)							100	
Storage Blk Time (%)							1	2
Queuing Penalty (veh)							3	3

Intersection: 9: N. Frontage Road/Water Street & State Street

Movement	WB	WB	NB	NB	SB	SB	SB
Directions Served	L	R	T	R	L	T	T
Maximum Queue (ft)	178	125	178	98	65	112	108
Average Queue (ft)	84	39	79	40	27	45	42
95th Queue (ft)	152	97	147	82	60	87	95
Link Distance (ft)	306		213	213		261	261
Upstream Blk Time (%)			0				
Queuing Penalty (veh)			0				
Storage Bay Dist (ft)		100			275		
Storage Blk Time (%)	7	0					
Queuing Penalty (veh)	4	0					

Intersection: 26: State Street & Audobon Street

Movement	EB	EB	WB	NB	SB	SB
Directions Served	L	TR	LTR	TR	L	T
Maximum Queue (ft)	84	65	14	99	33	179
Average Queue (ft)	28	25	1	36	4	82
95th Queue (ft)	66	56	8	83	21	150
Link Distance (ft)	182	182	151	264		370
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)					100	
Storage Blk Time (%)						3
Queuing Penalty (veh)						0

Intersection: 35: State Street & Trumbull Street

Movement	SE	SE	NE	SW	SW
Directions Served	LT	R	TR	L	T
Maximum Queue (ft)	29	47	27	27	29
Average Queue (ft)	10	22	1	8	2
95th Queue (ft)	31	48	14	28	13
Link Distance (ft)	177	177	370		238
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)				100	
Storage Blk Time (%)					
Queuing Penalty (veh)					

Zone Summary

Zone wide Queuing Penalty: 451

Summary of All Intervals

Run Number	1	2	3	4	5	Avg
Start Time	4:57	4:57	4:57	4:57	4:57	4:57
End Time	6:00	6:00	6:00	6:00	6:00	6:00
Total Time (min)	63	63	63	63	63	63
Time Recorded (min)	60	60	60	60	60	60
# of Intervals	2	2	2	2	2	2
# of Recorded Intervals	1	1	1	1	1	1
Vehs Entered	5461	5656	5361	5553	5262	5451
Vehs Exited	5327	5560	5246	5448	5127	5341
Starting Vehs	161	161	179	164	187	169
Ending Vehs	295	257	294	269	322	282
Travel Distance (mi)	1952	1998	1908	1989	1881	1945
Travel Time (hr)	270.6	233.2	357.9	311.1	415.0	317.6
Total Delay (hr)	185.7	146.1	274.7	224.5	333.2	232.9
Total Stops	9989	9955	10503	10496	10415	10270
Fuel Used (gal)	115.6	108.9	134.7	126.2	147.1	126.5

Interval #0 Information Seeding

Start Time	4:57
End Time	5:00
Total Time (min)	3
Volumes adjusted by Growth Factors.	
No data recorded this interval.	

Interval #1 Information Recording

Start Time	5:00					
End Time	6:00					
Total Time (min)	60					
Volumes adjusted by Growth Factors.						
Run Number	1	2	3	4	5	Avg
Vehs Entered	5461	5656	5361	5553	5262	5451
Vehs Exited	5327	5560	5246	5448	5127	5341
Starting Vehs	161	161	179	164	187	169
Ending Vehs	295	257	294	269	322	282
Travel Distance (mi)	1952	1998	1908	1989	1881	1945
Travel Time (hr)	270.6	233.2	357.9	311.1	415.0	317.6
Total Delay (hr)	185.7	146.1	274.7	224.5	333.2	232.9
Total Stops	9989	9955	10503	10496	10415	10270
Fuel Used (gal)	115.6	108.9	134.7	126.2	147.1	126.5

1: State Street & Grove Street/Olive Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.2	0.2	0.0	1.6	0.6
Total Del/Veh (s)	144.6	40.4	21.2	24.4	32.3

2: State Street & Wall Street Performance by approach

Approach	NB	SB	All
Denied Del/Veh (s)	0.0	0.0	0.0
Total Del/Veh (s)	7.1	2.1	5.5

3: State Street & Elm Street/Grand Avenue Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	8.5	0.2	46.0	0.0	15.3
Total Del/Veh (s)	95.7	46.3	34.5	17.5	60.3

4: State Street & Court Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.1	0.1	0.0	2.8	1.5
Total Del/Veh (s)	28.2	39.2	13.1	18.6	17.2

5: State Street & Pitkin Tunnel Performance by approach

Approach	EB	NB	SB	All
Denied Del/Veh (s)	121.8	0.0	0.2	24.6
Total Del/Veh (s)	122.1	27.4	12.1	37.2

6: State Street & Chapel Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	39.3	0.0	0.0	1.4	6.0
Total Del/Veh (s)	125.5	56.6	62.5	20.0	51.1

7: State Street & Crown Street Performance by approach

Approach	NB	SB	All
Denied Del/Veh (s)	0.3	1.4	0.9
Total Del/Veh (s)	15.7	8.8	11.8

8: State Street & George Street/Fair Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	194.7	0.2	0.0	0.1	88.0
Total Del/Veh (s)	81.0	37.1	36.1	35.9	54.6

9: N. Frontage Road/Water Street & State Street Performance by approach

Approach	WB	NB	SB	All
Denied Del/Veh (s)	0.0	1.3	0.0	0.4
Total Del/Veh (s)	43.6	17.7	11.1	18.0

17: State Street & Audobon Street Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.0
Total Del/Veh (s)	19.1	20.1	9.9	7.8	10.3

37: State Street & Trumbull Street Performance by approach

Approach	SE	NE	SW	All
Denied Del/Veh (s)	0.1	0.0	0.9	0.3
Total Del/Veh (s)	11.9	4.9	4.3	5.1

Total Zone Performance

Denied Del/Veh (s)	53.1
Total Del/Veh (s)	1333.3

Arterial Level of Service: NB State Street

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
	38	21.2	30.0	0.1	7
Fair Street	8	36.7	39.7	0.0	2
Crown Street	7	18.3	29.2	0.1	9
Chapel Street	6	60.9	75.6	0.1	5
Pitkin Tunnel	5	4.4	10.6	0.0	14
Court Street	4	10.0	15.7	0.0	9
	23	20.5	28.4	0.1	7
Grand Avenue	3	34.7	83.8	0.0	3
Wall Street	2	3.0	17.2	0.1	20
Olive Street	1	18.2	28.7	0.1	10
	17	11.3	20.7	0.1	12
Trumbull Street	37	6.2	18.8	0.1	16
Total		245.5	398.4	0.8	8

Arterial Level of Service: SB State Street

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Trumbull Street	37	0.4	7.7	0.0	25
Audobon Street	17	7.6	19.5	0.1	15
Grove Street	1	13.2	23.4	0.1	11
Wall Street	2	2.2	13.4	0.1	21
Elm Street	3	9.9	23.3	0.1	15
	23	2.3	7.8	0.0	18
Court Street	4	18.6	29.3	0.1	7
Pitkin Tunnel	5	12.0	17.6	0.0	8
Chapel Street	6	15.5	23.2	0.0	7
Crown Street	7	9.2	25.2	0.1	16
George Street	8	35.2	44.7	0.1	6
	38	1.7	6.3	0.0	13
N. Frontage Road	9	8.2	16.8	0.1	13
Total		136.2	258.2	0.8	12

Intersection: 1: State Street & Grove Street/Olive Street

Movement	EB	WB	WB	NB	NB	SB	SB
Directions Served	LTR	LT	R	L	TR	L	TR
Maximum Queue (ft)	338	184	162	220	359	150	286
Average Queue (ft)	159	93	73	109	287	110	181
95th Queue (ft)	305	161	132	236	413	177	295
Link Distance (ft)	777	361	361		345		264
Upstream Blk Time (%)					3		3
Queuing Penalty (veh)					26		19
Storage Bay Dist (ft)				170		100	
Storage Blk Time (%)					20	25	13
Queuing Penalty (veh)					21	135	16

Intersection: 2: State Street & Wall Street

Movement	NB	NB	SB
Directions Served	L	T	TR
Maximum Queue (ft)	83	470	81
Average Queue (ft)	15	100	4
95th Queue (ft)	52	324	50
Link Distance (ft)		445	345
Upstream Blk Time (%)		0	
Queuing Penalty (veh)		4	
Storage Bay Dist (ft)	110		
Storage Blk Time (%)		3	
Queuing Penalty (veh)		2	

Intersection: 3: State Street & Elm Street/Grand Avenue

Movement	EB	EB	EB	WB	WB	NB	B23	SB	SB
Directions Served	L	T	TR	L	R	TR	T	L	T
Maximum Queue (ft)	626	621	643	281	140	216	298	152	232
Average Queue (ft)	383	335	357	137	10	195	180	47	55
95th Queue (ft)	728	654	670	247	67	223	337	116	173
Link Distance (ft)	778	778	778	576	576	126	230		445
Upstream Blk Time (%)	8	6	1			53	10		0
Queuing Penalty (veh)	0	0	0			311	59		1
Storage Bay Dist (ft)								240	
Storage Blk Time (%)									1
Queuing Penalty (veh)									1

Intersection: 4: State Street & Court Street

Movement	EB	WB	NB	SB	B23
Directions Served	LTR	LTR	TR	T	T
Maximum Queue (ft)	97	68	169	318	173
Average Queue (ft)	43	21	138	212	34
95th Queue (ft)	85	54	203	334	135
Link Distance (ft)	462	567	154	230	126
Upstream Blk Time (%)			14	14	5
Queuing Penalty (veh)			82	101	34
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 5: State Street & Pitkin Tunnel

Movement	EB	EB	NB	NB	SB
Directions Served	L	R	L	T	TR
Maximum Queue (ft)	307	304	164	154	173
Average Queue (ft)	196	169	109	73	127
95th Queue (ft)	361	346	188	139	202
Link Distance (ft)	287	287	156	156	154
Upstream Blk Time (%)	30	21	18	1	8
Queuing Penalty (veh)	0	0	50	3	68
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 6: State Street & Chapel Street

Movement	EB	EB	WB	WB	NB	NB	SB	SB
Directions Served	L	TR	L	TR	L	TR	L	TR
Maximum Queue (ft)	206	441	169	290	189	468	139	174
Average Queue (ft)	120	206	69	181	52	279	73	156
95th Queue (ft)	237	489	166	296	146	559	123	187
Link Distance (ft)		560		285		489	156	156
Upstream Blk Time (%)		12		4		16	0	23
Queuing Penalty (veh)		0		14		81	1	90
Storage Bay Dist (ft)	180		120		120			
Storage Blk Time (%)	22	10	0	34	0	39		
Queuing Penalty (veh)	41	7	0	16	2	20		

Intersection: 7: State Street & Crown Street

Movement	NB	NB	SB
Directions Served	L	T	TR
Maximum Queue (ft)	99	200	260
Average Queue (ft)	30	76	57
95th Queue (ft)	88	269	284
Link Distance (ft)		273	489
Upstream Blk Time (%)		10	2
Queuing Penalty (veh)		58	13
Storage Bay Dist (ft)	60		
Storage Blk Time (%)	0	19	
Queuing Penalty (veh)	2	14	

Intersection: 8: State Street & George Street/Fair Street

Movement	EB	EB	EB	WB	NB	B38	SB	SB
Directions Served	LT	R	R	LTR	TR	T	LT	TR
Maximum Queue (ft)	386	376	345	194	125	218	203	261
Average Queue (ft)	336	284	99	79	94	74	131	153
95th Queue (ft)	439	472	262	151	134	228	218	269
Link Distance (ft)	346	346	346	368	42	261		273
Upstream Blk Time (%)	67	28	0		52	8		6
Queuing Penalty (veh)	0	0	0		147	23		36
Storage Bay Dist (ft)							140	
Storage Blk Time (%)							15	11
Queuing Penalty (veh)							49	34

Intersection: 9: N. Frontage Road/Water Street & State Street

Movement	WB	WB	NB	NB	SB	SB	SB
Directions Served	L	R	T	R	L	T	T
Maximum Queue (ft)	251	125	201	183	179	120	140
Average Queue (ft)	106	43	94	68	70	64	61
95th Queue (ft)	222	110	185	134	136	115	124
Link Distance (ft)	306		213	213		261	261
Upstream Blk Time (%)	4		2	0			
Queuing Penalty (veh)	9		0	0			
Storage Bay Dist (ft)		100			275		
Storage Blk Time (%)	8	6					
Queuing Penalty (veh)	4	10					

Intersection: 17: State Street & Audobon Street

Movement	EB	EB	WB	NB	SB
Directions Served	L	TR	LTR	TR	T
Maximum Queue (ft)	110	121	40	260	234
Average Queue (ft)	40	40	5	180	105
95th Queue (ft)	87	81	20	283	201
Link Distance (ft)	182	182	151	264	370
Upstream Blk Time (%)		0		0	
Queuing Penalty (veh)		0		2	
Storage Bay Dist (ft)					
Storage Blk Time (%)					7
Queuing Penalty (veh)					0

Intersection: 37: State Street & Trumbull Street

Movement	SE	SE	NE	SW	SW
Directions Served	LT	R	TR	L	T
Maximum Queue (ft)	46	72	143	95	100
Average Queue (ft)	14	32	13	36	8
95th Queue (ft)	41	58	71	78	53
Link Distance (ft)	177	177	370		238
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)				100	
Storage Blk Time (%)				1	0
Queuing Penalty (veh)				3	0

Zone Summary

Zone wide Queuing Penalty: 1607