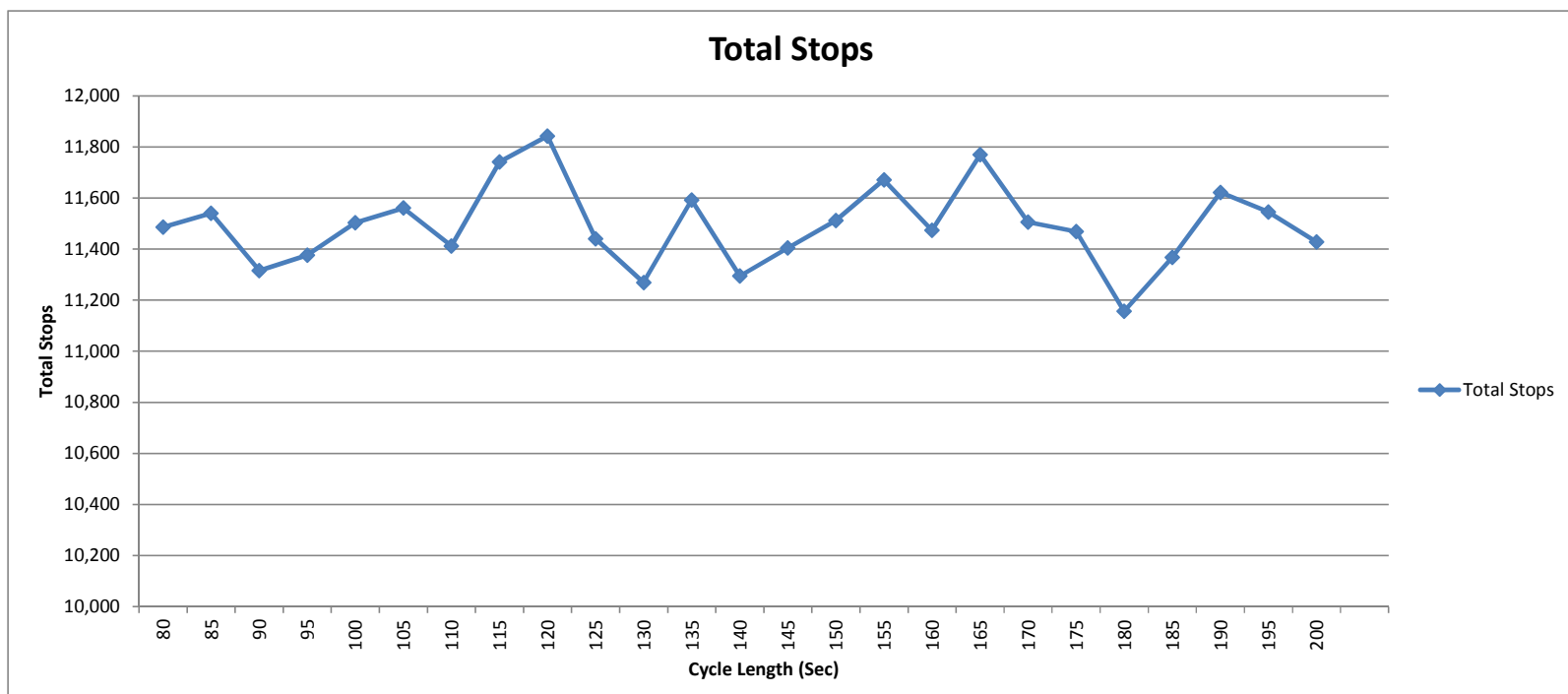
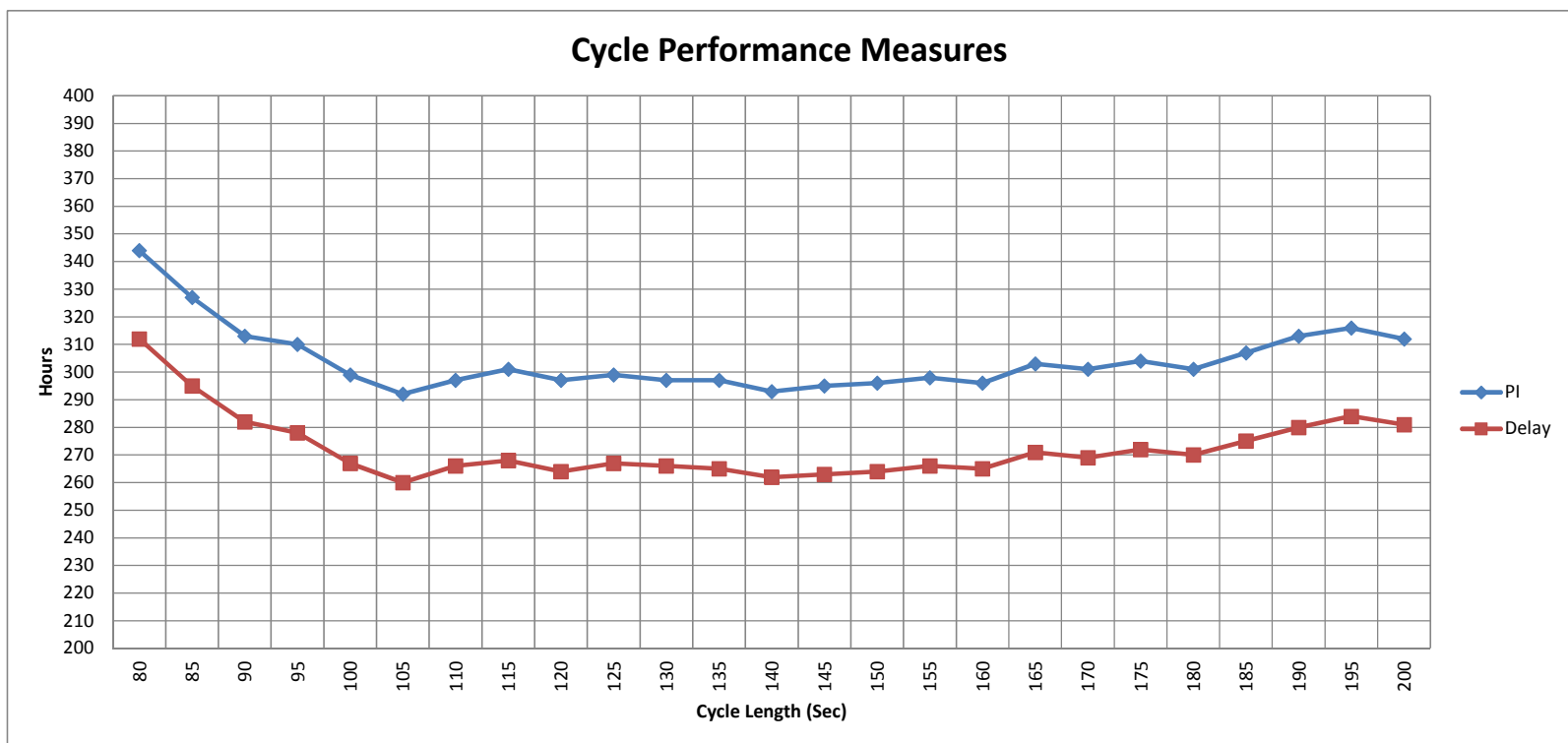


APPENDIX K

CYCLE LENGTH EVALUATION AND PERFORMANCE MEASURES

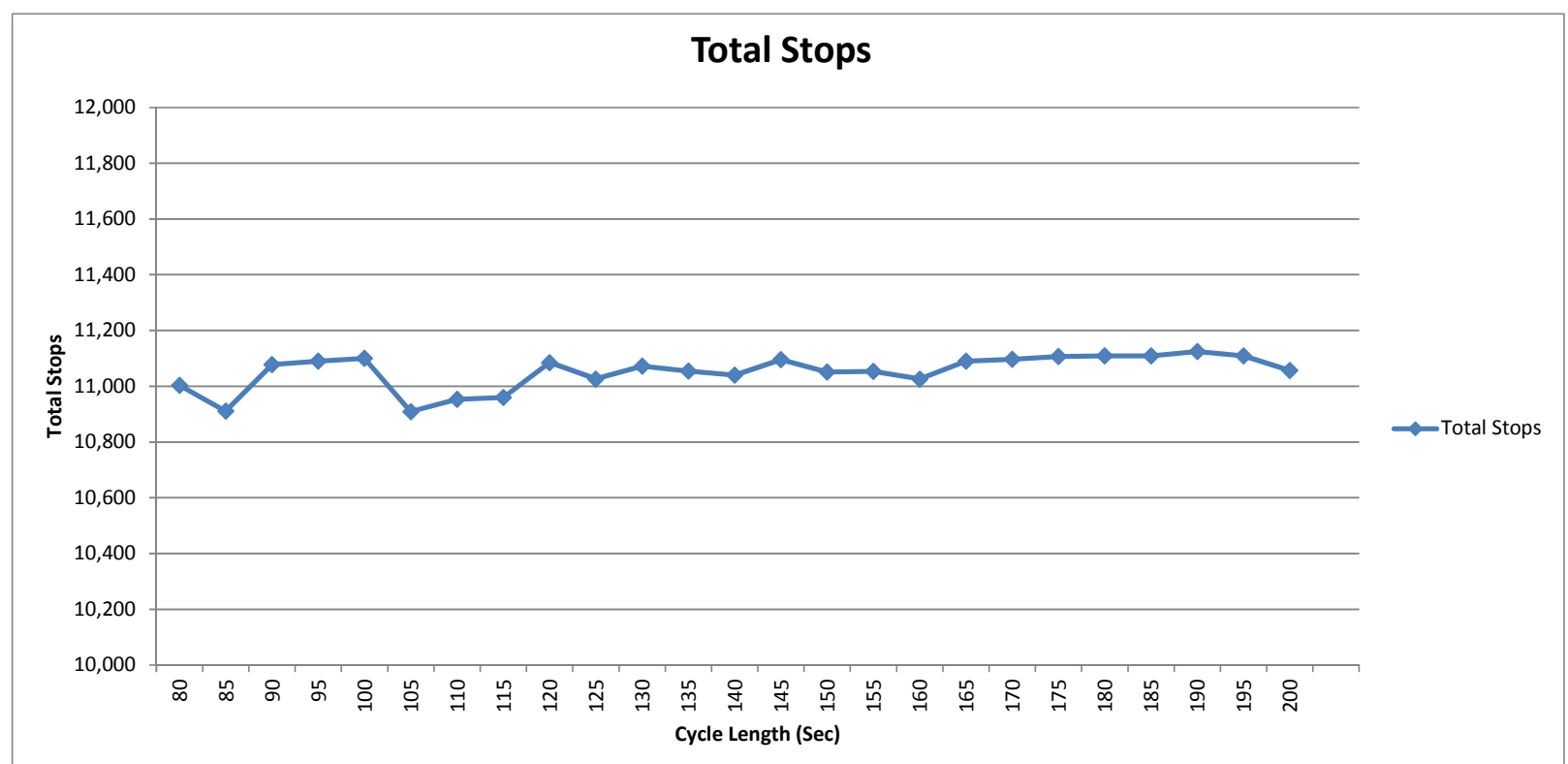
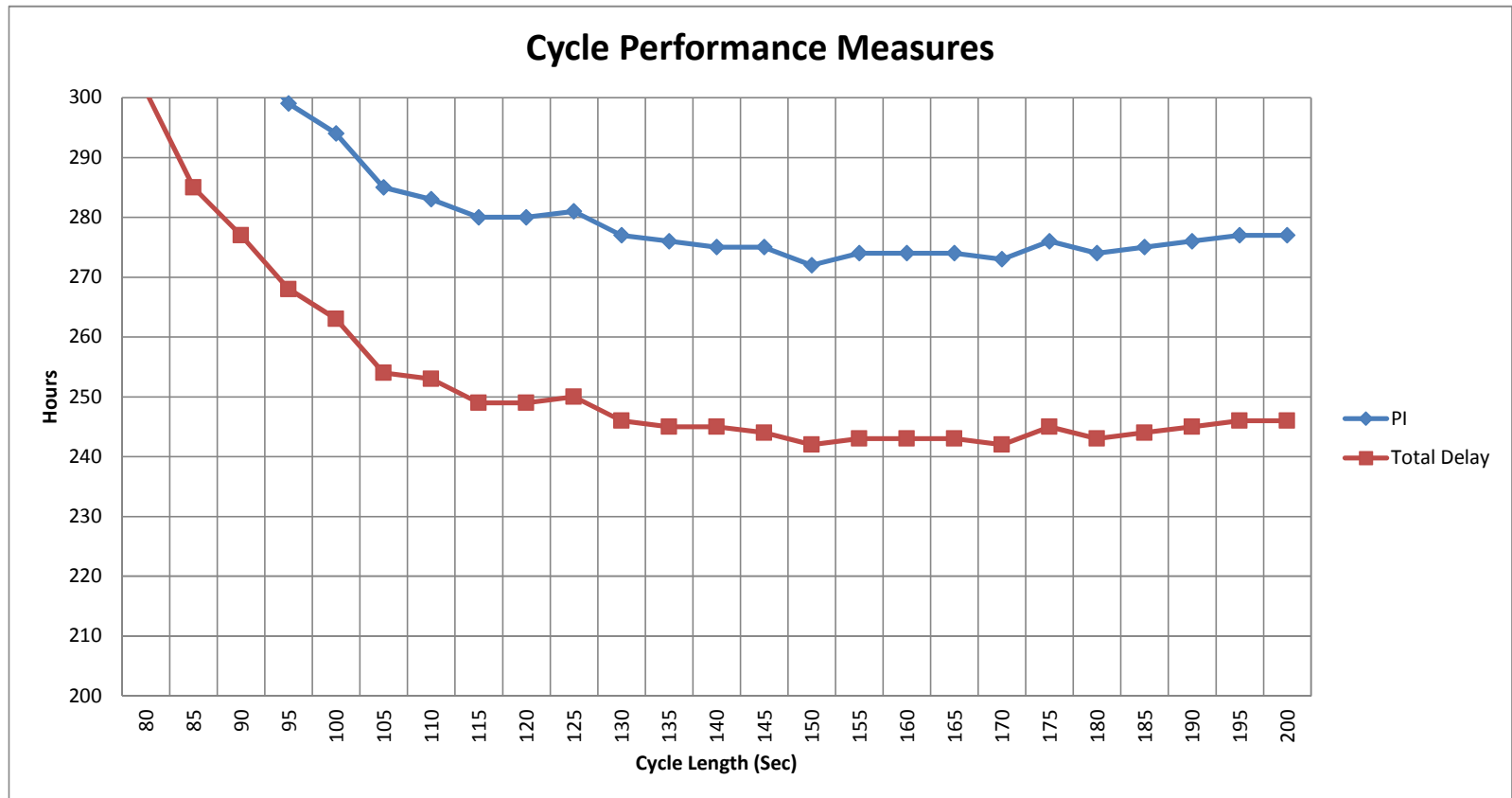
Cycle Length Evaluation - US 1 / Zone A
Weekday AM Peak Hour

Cycle Length (Sec)	Performance Index	Total Delay (Hr)	Total Stops
80	344	312	11,486
85	327	295	11,541
90	313	282	11,316
95	310	278	11,377
100	299	267	11,504
105	292	260	11,561
110	297	266	11,412
115	301	268	11,742
120	297	264	11,843
125	299	267	11,441
130	297	266	11,269
135	297	265	11,592
140	293	262	11,295
145	295	263	11,405
150	296	264	11,512
155	298	266	11,671
160	296	265	11,474
165	303	271	11,770
170	301	269	11,506
175	304	272	11,469
180	301	270	11,157
185	307	275	11,368
190	313	280	11,622
195	316	284	11,546
200	312	281	11,428



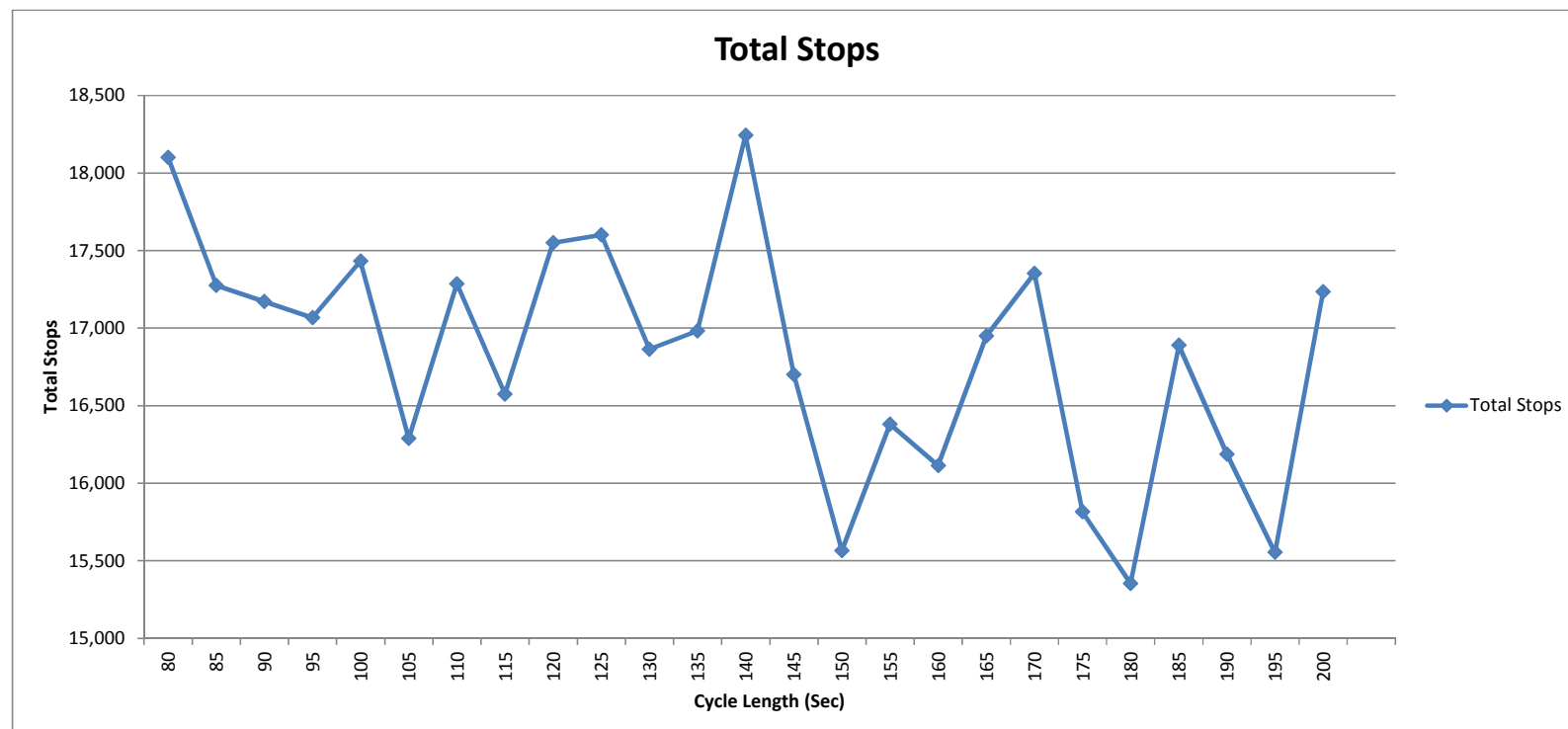
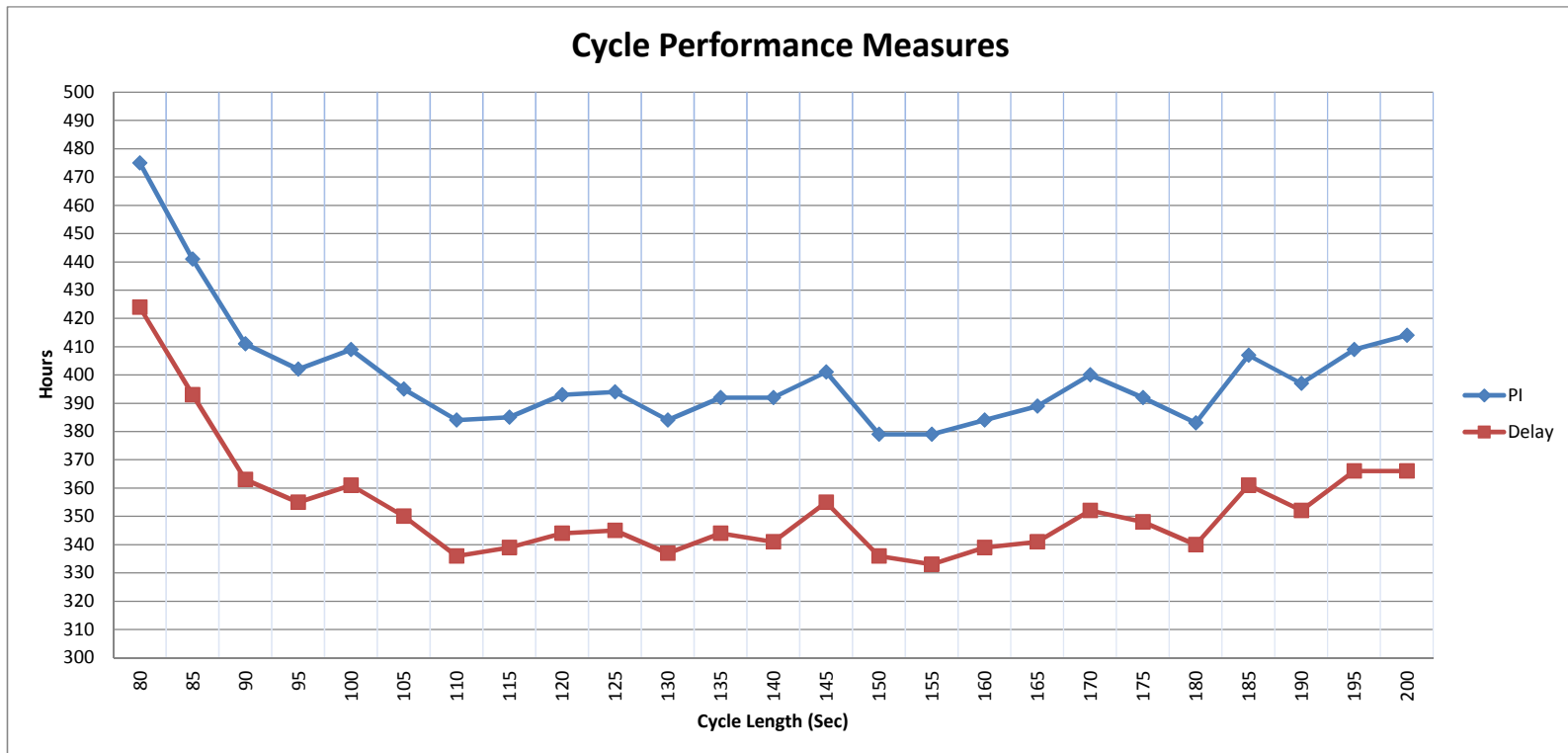
Cycle Length Evaluation - US 1 / Zone C
Weekday AM Peak Hour

Cycle Length (Sec)	Performance Index	Total Delay (Hr)	Total Stops
80	332	301	11,003
85	315	285	10,911
90	308	277	11,078
95	299	268	11,090
100	294	263	11,100
105	285	254	10,909
110	283	253	10,953
115	280	249	10,960
120	280	249	11,085
125	281	250	11,026
130	277	246	11,072
135	276	245	11,054
140	275	245	11,040
145	275	244	11,096
150	272	242	11,051
155	274	243	11,053
160	274	243	11,026
165	274	243	11,090
170	273	242	11,097
175	276	245	11,107
180	274	243	11,109
185	275	244	11,109
190	276	245	11,124
195	277	246	11,109
200	277	246	11,057



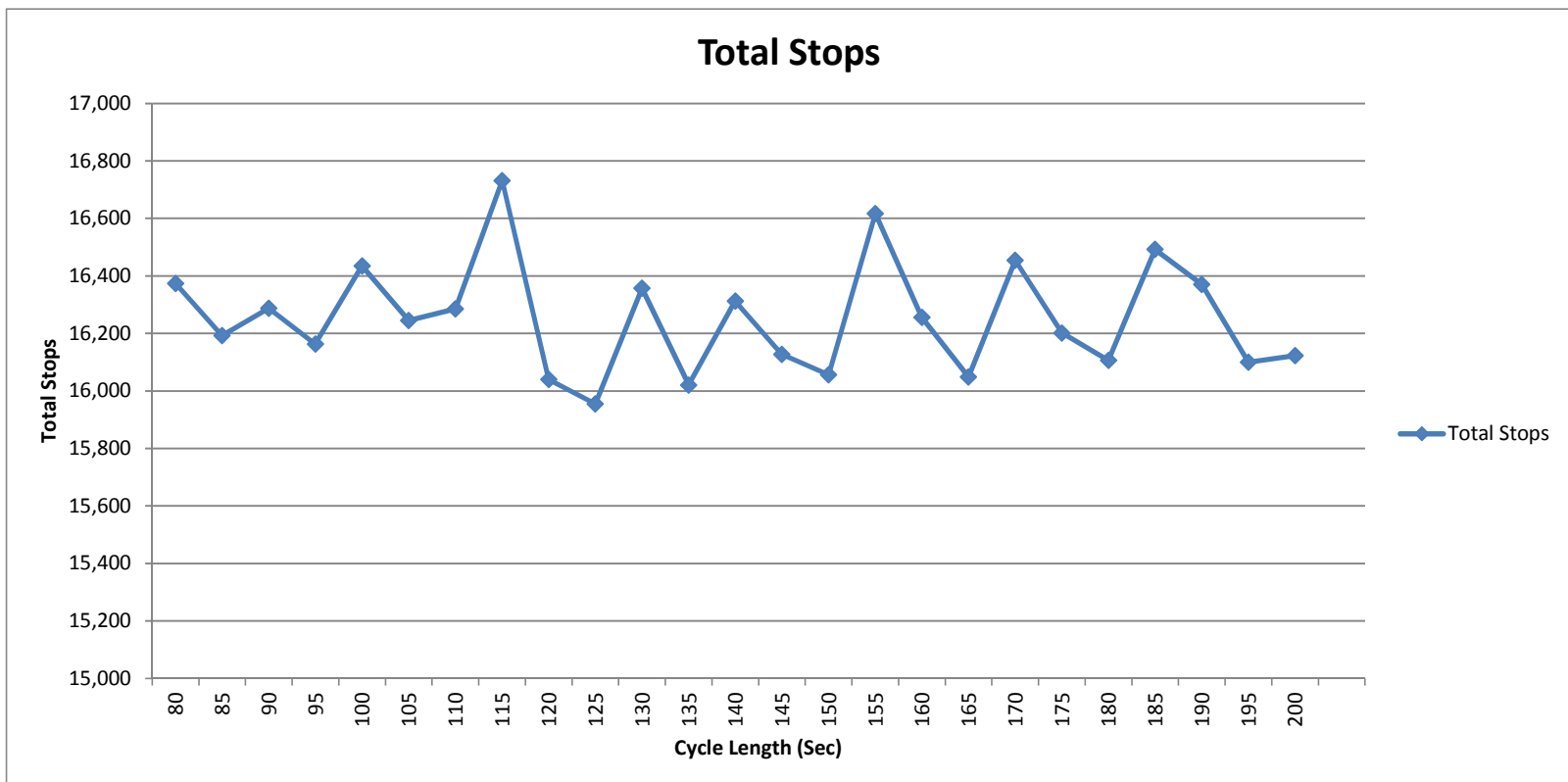
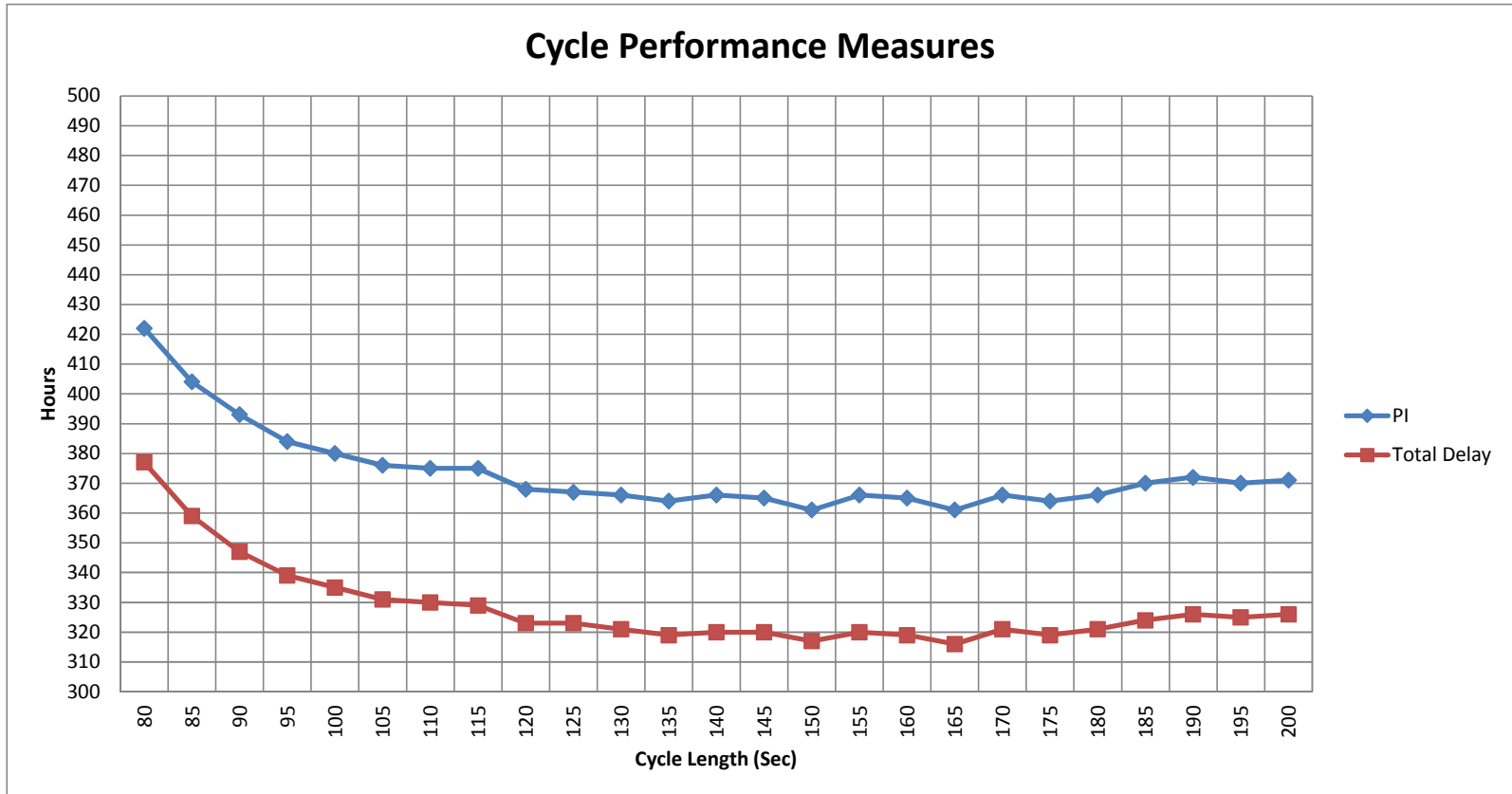
Cycle Length Evaluation - US 1 / Zone A
Weekday PM Peak Hour

Cycle Length (Sec)	Performance Index	Total Delay (Hr)	Total Stops
80	475	424	18,100
85	441	393	17,275
90	411	363	17,171
95	402	355	17,068
100	409	361	17,433
105	395	350	16,289
110	384	336	17,286
115	385	339	16,575
120	393	344	17,551
125	394	345	17,602
130	384	337	16,863
135	392	344	16,982
140	392	341	18,243
145	401	355	16,701
150	379	336	15,566
155	379	333	16,381
160	384	339	16,113
165	389	341	16,949
170	400	352	17,353
175	392	348	15,815
180	383	340	15,354
185	407	361	16,889
190	397	352	16,187
195	409	366	15,554
200	414	366	17,235



Cycle Length Evaluation - US 1 / Zone C
Weekday PM Peak Hour

Cycle Length (Sec)	Performance Index	Total Delay (Hr)	Total Stops
80	422	377	16,374
85	404	359	16,193
90	393	347	16,288
95	384	339	16,163
100	380	335	16,435
105	376	331	16,245
110	375	330	16,285
115	375	329	16,732
120	368	323	16,040
125	367	323	15,955
130	366	321	16,357
135	364	319	16,021
140	366	320	16,313
145	365	320	16,127
150	361	317	16,056
155	366	320	16,617
160	365	319	16,256
165	361	316	16,049
170	366	321	16,454
175	364	319	16,202
180	366	321	16,107
185	370	324	16,493
190	372	326	16,371
195	370	325	16,100
200	371	326	16,123



Bowman Consulting
 3951 Westerre Parkway, Suite 150
 Richmond, Virginia
 804.616.3240

US Route 1
 Between Route 610 and I-95 NB Off Ramp
 Stafford County, Virginia

Station ID:

Start Time	10-Jan-13 Thu	Nortbound	Southbound	Combined Total	
12:00 AM		60	76	136	
01:00		42	28	70	
02:00		47	35	82	
03:00		78	27	105	
04:00		273	34	307	
05:00		913	123	1036	
06:00		1281	257	1538	
07:00		1461	552	2013	
08:00		1143	652	1795	
09:00		843	602	1445	
10:00		800	598	1398	
11:00		865	766	1631	
12:00 PM		914	875	1789	
01:00		891	1021	1912	
02:00		983	1157	2140	
03:00		950	1225	2175	
04:00		1004	1524	2528	
05:00		1193	1604	2797	
06:00		893	1420	2313	
07:00		687	852	1539	
08:00		574	571	1145	
09:00		433	408	841	
10:00		217	256	473	
11:00		136	125	261	
Total		16681	14788	31469	
Percent		53.0%	47.0%		

AM Plan

Noon Plan

PM Plan

US Route 1
 North of Foreston Woods/Austin Park
 Stafford County, Virginia

Station ID:

Start Time	31-Jan-13 Thu	Northbound	Southbound	Combined Total	
12:00 AM		34	58	92	
01:00		25	38	63	
02:00		33	15	48	
03:00		42	10	52	
04:00		235	27	262	
05:00		686	95	781	
06:00		978	184	1162	
07:00		1068	423	1491	AM Plan
08:00		858	419	1277	
09:00		683	466	1149	
10:00		623	549	1172	
11:00		647	637	1284	
12:00 PM		720	726	1446	Noon Plan
01:00		667	861	1528	
02:00		738	957	1695	
03:00		725	1295	2020	
04:00		738	1402	2140	
05:00		723	1471	2194	
06:00		660	1428	2088	
07:00		517	832	1349	
08:00		370	531	901	PM Plan
09:00		244	354	598	
10:00		139	280	419	
11:00		70	165	235	
Total		12223	13223	25446	
Percent		48.0%	52.0%		

US Route 1
 North of Hope Road
 Stafford County, Virginia

Bowman Consulting
 3951 Westerre Parkway, Suite 150
 Richmond, Virginia
 804.616.3240

Station ID:

Start Time	10-Jan-13 Thu	Northbound	Southbound	Combined Total	
12:00 AM		26	24	50	
01:00		22	16	38	
02:00		11	3	14	
03:00		36	16	52	
04:00		95	25	120	
05:00		320	96	416	
06:00		477	156	633	
07:00		508	442	950	AM Plan
08:00		516	353	869	
09:00		425	378	803	
10:00		370	367	737	Noon Plan
11:00		410	401	811	
12:00 PM		468	562	1030	
01:00		382	647	1029	
02:00		560	759	1319	
03:00		511	764	1275	
04:00		562	784	1346	
05:00		559	798	1357	PM Plan
06:00		402	712	1114	
07:00		348	362	710	
08:00		278	258	536	
09:00		189	183	372	
10:00		102	105	207	
11:00		58	57	115	
Total		7635	8268	15903	
Percent		48.0%	52.0%		

US Route 1
 Between Route 630 and Hospital Center Bl
 Stafford County, Virginia

Station ID:

Start Time	10-Jan-13 Thu	Northbound	Southbound	Combined Total	
12:00 AM		29	26	55	
01:00		28	23	51	
02:00		13	7	20	
03:00		41	23	64	
04:00		83	17	100	
05:00		220	72	292	
06:00		367	168	535	
07:00		423	296	719	AM Peak
08:00		502	338	840	
09:00		364	418	782	
10:00		355	376	731	
11:00		376	412	788	Noon Peak
12:00 PM		410	496	906	
01:00		379	526	905	
02:00		392	705	1097	
03:00		423	672	1095	
04:00		395	837	1232	
05:00		405	924	1329	
06:00		284	642	926	
07:00		238	296	534	PM Peak
08:00		226	171	397	
09:00		152	128	280	
10:00		97	102	199	
11:00		63	65	128	
Total		6265	7740	14005	
Percent		44.7%	55.3%		