

Diane Nichols Tradd
Assistant City Manager/DPD Director

Craig Thomas
Deputy Director

MEMORANDUM

TO: Eileen M. Donoghue, City Manager *EMD*

FROM: Diane N. Tradd, Assistant City Manager/DPD Director

DATE: November 26, 2019

SUBJECT: MOTION OF 08/13/19 BY COUNCILOR NUON
REQUEST CITY MANAGER HAVE PROPER DEPARTMENTS FORMULATE PLAN TO SLOW SPEEDING TRAFFIC
AT DANGEROUS INTERSECTIONS THROUGHOUT THE CITY

The Transportation staff within the Department of Planning and Development (DPD) is aware of the dangers at some of Lowell's intersections. Lowell, according to the attached latest compiled data from 2014-2016 provided by MassDOT, has 15 intersections in the top 200 intersection crash list in the state. Please refer to the attached list with Lowell's intersections highlighted. Note that 36 of the top 50 intersections are in Gateway Cities. Gateway Cities have unique transportation challenges due to our larger population centers, aging transportation infrastructure and historic transit hubs, such as Gallagher Terminal. Focusing on dangerous intersections is a way to improve public safety in the City. The Transportation staff researched options to calm speeding traffic at both signalized and non-signalized intersections and a document is attached with images of different options.

Options to slow speeding vehicles at intersections include:

- Raised crosswalks
- Chicanes – method of creating artificial curves in a road
- Narrowed lanes
- Mini-roundabouts
- Dynamic warning signs – sign which displays the speed of vehicles as they approach
- Speed tables
- Shortened traffic signal cycle lengths

All of these traffic calming strategies have been studied by the Federal Highway Administration (FHWA) and have been proven to be effective to slow speeding traffic. Studies conducted by the FHWA also indicate that using multiple traffic calming methods increases the success rate.

The cycle length of a traffic signal is the time required to complete the sequence of signal directions. Shortening the cycle length would lower the chances of a driver speeding due to a more constant change of traffic signals. The Journal of the Transportation Research Board published a case study where the use of shortened cycle lengths was implemented in portions of two Boston streets, Massachusetts Avenue and Melnea Cass Boulevard. The case study showed that speeding opportunities decrease with shortened cycle times during peak and non-peak hours.

The Transportation staff is currently finalizing the Draft Neighborhood Traffic Calming Policy (NTCP), with the intent to present it to the Council in December 2019. The NTCP will enable residents to request reviews of speeding traffic on their neighborhood street and includes most of the strategies previously mentioned as potential solutions.

NV/ns

Attachment

cc: Natasha Vance, Transportation Engineer
Alan Heredia, Assistant Transportation Engineer

2014-2016 STATEWIDE TOP 200 INTERSECTION CRASH LIST

Rank	Town	RPA	MassDOT District	Street 1	Route 1	Street 2	Route 2	Total Crashes	EPDO Crashes	Fatal & Injury Crashes	PDO & Non Reported Crashes
1	LOWELL	NMCOG	4	VETERANS OF FOREIGN WARS HIGHWAY		BRIDGE STREET		136	876	37	99
2	LOWELL	NMCOG	4	APPLETON STREET	110	CENTRAL STREET		94	774	34	60
3	BOSTON	MAPC	6	MORTON STREET	203	HARVARD STREET		50	690	32	18
4	BROCKTON	OCPC	5	ASH STREET		WEST ELM STREET		64	684	31	33
5	SPRINGFIELD	PVPC	2	SAINTE JAMES AVENUE		SAINTE JAMES BOULEVARD	20A	52	672	31	21
6	TYNGSBOROUGH	NMCOG	4	MIDDLESEX ROAD		KENDALL ROAD	113	74	634	28	46
7	MILTON	MAPC	6	RANDOLPH AVENUE	28	CHICKATAWBUT ROAD		54	614	28	26
8	WORCESTER	CMRPC	3	KELLEY SQUARE		WATER STREET		138	598	23	115
9	SPRINGFIELD	PVPC	2	SUMNER AVENUE	83	BELMONT AVENUE	83	65	525	23	42
10	HOLYOKE	PVPC	2	HIGH STREET		CABOT STREET		54	494	22	32
11	RAYNHAM	SRPEDD	5	NEW STATE HIGHWAY	44	ORCHARD STREET		67	487	21	46
12	LOWELL	NMCOG	4	VETERANS OF FOREIGN WARS HIGHWAY		AIKEN STREET		55	475	21	34
13	SWANSEA	SRPEDD	5	MARKET STREET	136	GRAND ARMY OF THE REPUBLIC HIGHWAY	6	66	466	20	46
14	BROCKTON	OCPC	5	CENTRE STREET	123	PLYMOUTH STREET		45	465	21	24
15	BROCKTON	OCPC	5	MAIN STREET		PLEASANT STREET	27	39	459	21	18
16	FALL RIVER	SRPEDD	5	BEDFORD STREET		TROY STREET		48	448	20	28
17	BROCKTON	OCPC	5	MAIN STREET		LEGION PARKWAY	123	46	446	20	26
18	FALL RIVER	SRPEDD	5	PLYMOUTH AVENUE	81	RODMAN STREET		62	442	19	43
19	BOSTON	MAPC	6	GALLIVAN BOULEVARD	203	DORCHESTER AVENUE		35	435	20	15
20	LOWELL	NMCOG	4	VETERANS OF FOREIGN WARS HIGHWAY	113	MAMMOTH ROAD		74	434	18	56
20	BROCKTON	OCPC	5	PLEASANT STREET	27	WEST STREET		54	434	19	35
22	BROCKTON	OCPC	5	MAIN STREET		NILSSON STREET		30	430	20	10
23	MEDFORD	MAPC	4	REVERE BEACH PARKWAY	16	FELLSWAY (WELLINGTON CIRCLE)	28	65	425	18	47
24	BOSTON	MAPC	6	GALLIVAN BOULEVARD	203	GRANITE AVENUE		38	418	19	19
25	SPRINGFIELD	PVPC	2	MAIN STREET		PLAINFIELD STREET	20A	36	416	19	17
26	HOLYOKE	PVPC	2	MAIN STREET		CABOT STREET		32	412	19	13
27	EVERETT	MAPC	4	REVERE BEACH PARKWAY	16	EVERETT AVENUE		44	404	18	26
28	WORCESTER	CMRPC	3	SOUTHBRIDGE STREET		HAMMOND STREET		57	397	17	40
28	BRAINTREE	MAPC	6	GRANITE STREET	37	COMMON STREET		57	397	17	40
30	BROCKTON	OCPC	5	FOREST AVENUE		BOUVE AVENUE		29	389	18	11
31	BROCKTON	OCPC	5	COURT STREET	27	MONTELLO STREET	28	45	385	17	28
31	BILLERICA	NMCOG	4	SALEM ROAD	129	POND STREET		45	385	17	28
33	SPRINGFIELD	PVPC	2	ARMORY CIRCLE		ARMORY STREET		24	384	18	6
34	LYNN	MAPC	4	WESTERN AVENUE	107	CHESTNUT STREET		59	379	16	43
34	CHELSEA	MAPC	6	REVERE BEACH PARKWAY	16	WASHINGTON AVENUE		39	379	17	22
36	SOMERSET	SRPEDD	5	GRAND ARMY OF THE REPUBLIC HIGHWAY	6	LEES RIVER AVENUE		38	378	17	21
37	BROCKTON	OCPC	5	PLEASANT STREET	27	ASH STREET		36	376	17	19
37	FALMOUTH	CCC	5	SANDWICH ROAD		NATHAN ELLIS HIGHWAY	151	36	376	17	19
39	TAUNTON	SRPEDD	5	WILLIAMS STREET		GORDON M OWEN RIVERWAY		35	375	17	18
39	EVERETT	MAPC	4	REVERE BEACH PARKWAY	16	SECOND STREET		35	375	17	18
41	BROCKTON	OCPC	5	WARREN AVENUE		MARKET STREET		31	371	17	14
42	BROCKTON	OCPC	5	WARREN AVENUE	123	WEST ELM STREET		30	370	17	13
43	SPRINGFIELD	PVPC	2	STATE STREET		BENTON STREET		26	366	17	9
44	BOSTON	MAPC	6	GALLIVAN BOULEVARD	203	ADAMS STREET		25	365	17	8
44	FRAMINGHAM	MAPC	3	WORCESTER ROAD	9	COCHITUATE ROAD		25	365	17	8
46	RANDOLPH	MAPC	6	SOUTH MAIN STREET	28	UNION STREET	139	41	361	16	25
47	SPRINGFIELD	PVPC	2	BOSTON ROAD	20	PARKER STREET		39	359	16	23
48	CHELSEA	MAPC	6	BROADWAY		THIRD STREET		38	358	16	22
49	CHELSEA	MAPC	6	REVERE BEACH PARKWAY	16	GARFIELD AVENUE		54	354	15	39
50	BROCKTON	OCPC	5	PLEASANT STREET	27	WARREN AVENUE		32	352	16	16
51	SPRINGFIELD	PVPC	2	BOSTON ROAD		BAY STREET		31	351	16	15
51	WORCESTER	CMRPC	3	HARVARD STREET		LINCOLN SQUARE	9	51	351	15	36

2014-2016 STATEWIDE TOP 200 INTERSECTION CRASH LIST

Rank	Town	RPA	MassDOT District	Street 1	Route 1	Street 2	Route 2	Total Crashes	LPDO Crashes	Fatal & Injury Crashes	PDO & Non Reported Crashes
53	NEW BEDFORD	SRPEDD	5	ALFRED BESSETTE MEMORIAL HIGHWAY	140	KEMPTON STREET	6	49	349	15	34
54	WEBSTER	CMRPC	3	WORCESTER ROAD		EAST MAIN STREET	12	48	348	15	33
55	FALL RIVER	SRPEDD	5	PRESIDENT AVENUE	6	HIGHLAND AVENUE		46	346	15	31
56	CAMBRIDGE	MAPC	6	MEMORIAL DRIVE		MASSACHUSETTS AVENUE	2A	45	345	15	30
56	REVERE	MAPC	4	REVERE BEACH PARKWAY	145	TOMASELLO WAY		25	345	16	9
58	WORCESTER	CMRPC	3	MAIN STREET		MILL STREET	12	43	343	15	28
58	PEABODY	MAPC	4	NEWBURYPORT TURNPIKE (JUGHANDLE)	1			43	343	15	28
60	STOUGHTON	OCPC	5	PLEASANT STREET	139	LINCOLN STREET		42	342	15	27
61	DANVERS	MAPC	4	ROUTE 128 NORTHBOUND ON-RAMP	128	ELLIOTT STREET	62	61	341	14	47
62	BOSTON	MAPC	6	MASSACHUSETTS AVENUE CONNECTOR		FRONTAGE ROAD		77	337	13	64
63	LYNN	MAPC	4	WESTERN AVENUE	107	EASTERN AVENUE		55	335	14	41
64	CHICOPEE	PVPC	2	BROADWAY		EAST MAIN STREET	141	54	334	14	40
64	WESTFIELD	PVPC	2	HOLYOKE ROAD		SPRINGDALE ROAD		34	334	15	19
64	QUINCY	MAPC	6	SOUTHERN ARTERY	3A	SEA STREET		54	334	14	40
67	AVON	OCPC	5	EAST MAIN STREET	28	EAST SPRING STREET		33	333	15	18
68	BROCKTON	OCPC	5	WEST ELM STREET		NEWBURY STREET		31	331	15	16
69	LOWELL	NMCOG	4	APPLETON STREET	110	GORHAM STREET		30	330	15	15
70	CHELSEA	MAPC	6	EASTERN AVENUE		CHELSEA STREET BRIDGE		29	329	15	14
71	BROCKTON	OCPC	5	NORTH MONTELLO STREET	28	EAST ASHLAND STREET		26	326	15	11
72	SOMERSET	SRPEDD	5	BRAYTON AVENUE		SLADES FERRY AVENUE		25	325	15	10
73	LYNN	MAPC	4	WESTERN AVENUE	107	WASHINGTON STREET	129	43	323	14	29
74	WORCESTER	CMRPC	3	CANTERBURY STREET		GARDNER STREET		39	319	14	25
75	LOWELL	NMCOG	4	SCHOOL STREET		BRANCH STREET		38	318	14	24
76	STOUGHTON	OCPC	5	PARK STREET	27	WALNUT STREET		37	317	14	23
77	WESTBOROUGH	CMRPC	3	TURNPIKE ROAD	9	OTIS STREET		75	315	12	63
77	FRAMINGHAM	MAPC	3	WORCESTER ROAD	9	CALIFORNIA AVENUE		35	315	14	21
79	CAMBRIDGE	MAPC	6	FRESH POND PARKWAY	3	MOUNT AUBURN STREET		33	313	14	19
79	SPRINGFIELD	PVPC	2	EAST COLUMBUS AVENUE		BOLAND WAY		33	313	14	19
79	LOWELL	NMCOG	4	NESMITH STREET	38	ANDOVER STREET	110	53	313	13	40
82	WATERTOWN	MAPC	6	GALEN STREET		WATERTOWN STREET	16	30	310	14	16
83	BROCKTON	OCPC	5	WARREN AVENUE		FOREST AVENUE		29	309	14	15
83	BROCKTON	OCPC	5	MONTELLO STREET	28	EAST NILSSON STREET		29	309	14	15
85	FITCHBURG	MRPC	3	BOULDER DRIVE		MAIN STREET	2A	28	308	14	14
86	WORCESTER	CMRPC	3	CHANDLER STREET	122	MASON STREET		47	307	13	34
86	CAMBRIDGE	MAPC	6	MEMORIAL DRIVE	3	RIVER STREET		27	307	14	13
86	SPRINGFIELD	PVPC	2	MAPLE STREET		UNION STREET		27	307	14	13
89	WORCESTER	CMRPC	3	PARK AVENUE	9	MAYWOOD STREET		46	306	13	33
90	SPRINGFIELD	PVPC	2	MAGAZINE STREET		LINCOLN STREET		25	305	14	11
90	SPRINGFIELD	PVPC	2	STATE STREET		FEDERAL STREET		25	305	14	11
90	BROCKTON	OCPC	5	PLEASANT STREET	27	AUGUSTA AVENUE		25	305	14	11
93	RANDOLPH	MAPC	6	NORTH MAIN STREET	28	SCANLON DRIVE		24	304	14	10
93	SPRINGFIELD	PVPC	2	SAINT JAMES AVENUE		CAREW STREET		24	304	14	10
93	WEYMOUTH	MAPC	6	MAIN STREET	18	MIDDLE STREET		44	304	13	31
96	LYNN	MAPC	4	BOSTON STREET		HAMILTON STREET		43	303	13	30
96	BROCKTON	OCPC	5	GROVE STREET		CURVE STREET		23	303	14	9
96	EAST BRIDGEWATER	OCPC	5	BEDFORD STREET	18	WEST STREET	106	43	303	13	30
99	SOMERVILLE	MAPC	4	MCGRATH HIGHWAY		WASHINGTON STREET		41	301	13	28
99	LEOMINSTER	MRPC	3	NORTH MAIN STREET	12	HAMILTON STREET		41	301	13	28
101	CHICOPEE	PVPC	2	FULLER ROAD		TECHNOLOGY DRIVE		40	300	13	27
102	ABINGTON	OCPC	5	BROCKTON AVENUE	123	HIGH STREET		17	297	14	3
102	LEXINGTON	MAPC	4	BEDFORD STREET	4	HARRINGTON ROAD		57	297	12	45
104	BILLERICA,TEWKSBURY	NMCOG	4	ANDOVER ROAD		WHIPPLE ROAD		36	296	13	23

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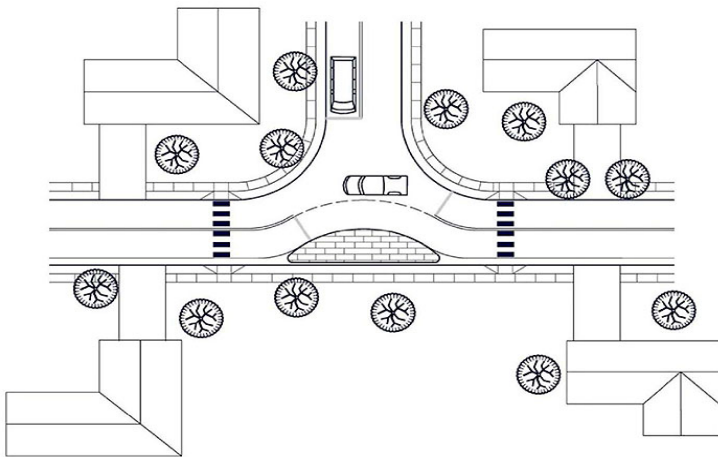
Rank	Town	RPA	MassDOT District	Street 1	Route 1	Street 2	Route 2	Total Crashes	EPDO Crashes	Fatal & Injury Crashes	PDO & Non Reported Crashes
105	LYNN	MAPC	4	WASHINGTON STREET	129	LAIGHTON STREET		35	295	13	22
106	ACTON	MAPC	3	MASSACHUSETTS AVENUE	2	PIPER ROAD		34	294	13	21
107	SWANSEA	SRPEDD	5	GRAND ARMY OF THE REPUBLIC HIGHWAY	6	MAPLE AVENUE		32	292	13	19
108	STONEHAM	MAPC	4	MAIN STREET	28	NORTH BORDER ROAD		31	291	13	18
109	LOWELL	NMCOG	4	GORHAM STREET		ELM STREET		50	290	12	38
109	MIDDLEBOROUGH	SRPEDD	5	SOUTH MAIN STREET	105	EAST GROVE STREET	28	50	290	12	38
109	WORCESTER	CMRPC	3	CHANDLER STREET	122	PIEDMONT STREET		30	290	13	17
112	ABINGTON,BROCKTON	OCPC	5	NORTH QUINCY STREET		CHESTNUT STREET		29	289	13	16
112	TEWKSBURY	NMCOG	4	SOUTH STREET		SALEM ROAD		49	289	12	37
114	WORCESTER	CMRPC	3	PARK AVENUE	9	MAY STREET		46	286	12	34
114	EVERETT	MAPC	4	REVERE BEACH PARKWAY	16	SPRING STREET		26	286	13	13
116	MIDDLEBOROUGH	SRPEDD	5	ROUTE 44	44	PLYMPTON STREET	105	44	284	12	32
116	SEEKONK	SRPEDD	5	ARCADE AVENUE		FALL RIVER AVENUE		44	284	12	32
118	PITTSFIELD	BRPC	1	FIRST STREET	7	FENN STREET		23	283	13	10
118	WRENTHAM	MAPC	5	SOUTH STREET	1A	PREMIUM OUTLETS BOULEVARD		43	283	12	31
118	EASTON	OCPC	5	DEPOT STREET		WASHINGTON STREET	123	23	283	13	10
121	SEEKONK	SRPEDD	5	TAUNTON AVENUE	44	FALL RIVER AVENUE	114A	42	282	12	30
121	MEDFIELD	MAPC	3	NORTH MEADOWS ROAD	27	WEST STREET		22	282	13	9
123	TAUNTON	SRPEDD	5	COUNTY STREET	140	HART STREET		41	281	12	29
123	FITCHBURG	MRPC	3	FRANKLIN ROAD		OAK HILL ROAD		21	281	13	8
125	NEW BEDFORD	SRPEDD	5	KEMPTON STREET	6	ROCKDALE AVENUE		39	279	12	27
125	QUINCY	MAPC	6	HONORABLE THOMAS S BURGIN PARKWAY		WALTER J HANNON PARKWAY		79	279	10	69
125	MANSFIELD	SRPEDD	5	CHAUNCY STREET	106	NORTH MAIN STREET		39	279	12	27
128	SPRINGFIELD	PVPC	2	ROOSEVELT AVENUE		PAGE BOULEVARD	20A	38	278	12	26
128	SHREWSBURY	CMRPC	3	HARTFORD TURNPIKE	20	GRAFTON STREET		38	278	12	26
128	MANSFIELD	SRPEDD	5	CHAUNCY STREET	106	COPELAND DRIVE		38	278	12	26
131	WORCESTER	CMRPC	3	BELMONT STREET	9	HOOPER STREET		37	277	12	25
131	SPRINGFIELD	PVPC	2	MAIN STREET		CENTRAL STREET		17	277	13	4
133	NEW BEDFORD	SRPEDD	5	JOHN F KENNEDY MEMORIAL HIGHWAY	18	POTOMSKA STREET		35	275	12	23
133	LOWELL	NMCOG	4	GORHAM STREET		CENTRAL STREET		35	275	12	23
135	PEMBROKE	OCPC	5	SCHOOSSETT STREET		WASHINGTON STREET	53	34	274	12	22
135	CAMBRIDGE	MAPC	6	MEMORIAL DRIVE	3	WESTERN AVENUE		34	274	12	22
137	PEMBROKE	OCPC	5	CHURCH STREET	139	OLD OAK STREET		33	273	12	21
137	WORCESTER	CMRPC	3	PARK AVENUE	9	PLEASANT STREET		33	273	12	21
139	QUINCY	MAPC	6	HONORABLE THOMAS S BURGIN PARKWAY		CENTRE STREET		32	272	12	20
139	FITCHBURG	MRPC	3	WATER STREET	12	WANOSNOC ROAD		52	272	11	41
141	ABINGTON	OCPC	5	BEDFORD STREET	18	BROCKTON AVENUE	123	51	271	11	40
141	WORCESTER	CMRPC	3	SUNDERLAND ROAD		SOUTHWEST CUTOFF	20	31	271	12	19
141	FOXBOROUGH	MAPC	5	COMMERCIAL STREET		FORBES BOULEVARD		31	271	12	19
141	SPRINGFIELD	PVPC	2	ROOSEVELT AVENUE		BAY STREET		31	271	12	19
145	LYNN	MAPC	4	WASHINGTON STREET	129	HANOVER STREET		30	270	12	18
145	EVERETT	MAPC	4	REVERE BEACH PARKWAY	16	VINE STREET		30	270	12	18
145	ROWLEY	MVPC	4	NEWBURYPORT TURNPIKE	1	HAVERTHILL STREET	133	30	270	12	18
145	SPRINGFIELD	PVPC	2	STATE STREET		SAINT JAMES AVENUE		30	270	12	18
149	BROCKTON	OCPC	5	WEST ELM STREET		BELMONT AVENUE		29	269	12	17
149	NORTH ANDOVER	MVPC	4	CHICKERING ROAD	125	MASSACHUSETTS AVENUE		29	269	12	17
149	NEEDHAM	MAPC	6	HILLSIDE AVENUE		WEST STREET		29	269	12	17
149	BROCKTON	OCPC	5	CRESCENT STREET	27	LYMAN STREET		29	269	12	17
153	BROCKTON	OCPC	5	NORTH MAIN STREET		OAK STREET		28	268	12	16
154	LOWELL	NMCOG	4	LORD OVERPASS	110	APPLETON STREET		27	267	12	15
154	TAUNTON	SRPEDD	5	BROADWAY	138	WASHINGTON STREET		27	267	12	15
156	LYNN	MAPC	4	WESTERN AVENUE	107	PARK STREET		26	266	12	14

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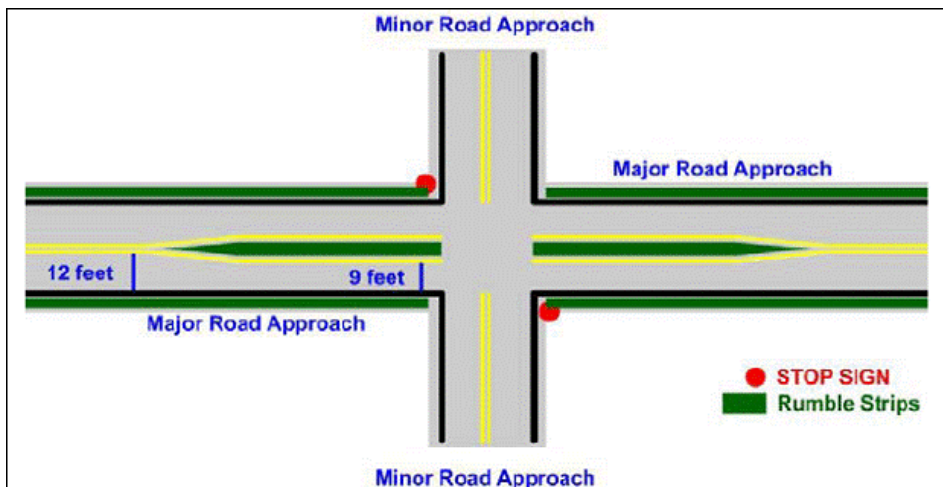
Rank	Town	RPA	MassDOT District	Street 1	Route 1	Street 2	Route 2	Total Crashes	LPDO Crashes	Fatal & Injury Crashes	PDO & Non Reported Crashes
156	LYNN	MAPC	4	LYNNFIELD STREET	129	BROADWAY		66	266	10	56
158	QUINCY	MAPC	6	BEALE STREET		NEWPORT AVENUE		45	265	11	34
158	WEYMOUTH	MAPC	6	MAIN STREET	18	COLUMBIAN STREET		25	265	12	13
158	LOWELL	NMCOG	4	SCHOOL STREET		MIDDLESEX STREET		25	265	12	13
161	SPRINGFIELD	PVPC	2	SAINT JAMES AVENUE		TAPLEY STREET		24	264	12	12
161	EASTON	OCPC	5	TURNPIKE STREET		PURCHASE STREET		24	264	12	12
163	BROCKTON	OCPC	5	WEST ELM STREET		MORAIN STREET		23	263	12	11
164	SPRINGFIELD	PVPC	2	BOSTON ROAD	20	PASCO ROAD		23	263	12	11
165	LOWELL	NMCOG	4	WESTFORD STREET	3A	WILDER STREET		42	262	11	31
165	RANDOLPH	MAPC	6	NORTH MAIN STREET	28	CHESTNUT STREET		22	262	12	10
167	WORCESTER	CMRPC	3	EAST CENTRAL STREET		SUMMER STREET		39	259	11	28
167	QUINCY	MAPC	6	HANCOCK STREET		FURNACE BROOK PARKWAY		39	259	11	28
169	SPRINGFIELD	PVPC	2	WALNUT STREET		LEBANON STREET		17	257	12	5
169	EAST BRIDGEWATER	OCPC	5	NORTH BEDFORD STREET	18	HIGHLAND STREET		37	257	11	26
171	HAVERTHILL	MVPC	4	ROUTE 125 CONNECTOR		SHELLEY ROAD		36	256	11	25
172	NORTH ATTLEBOROUGH	SRPEDD	5	EAST WASHINGTON STREET	1	CHESTNUT STREET		35	255	11	24
172	LOWELL	NMCOG	4	VETERANS OF FOREIGN WARS HIGHWAY		UNIVERSITY AVENUE		35	255	11	24
172	FRAMINGHAM	MAPC	3	WAVERLY STREET	135	BISHOP STREET		35	255	11	24
175	ABINGTON	OCPC	5	NORTH AVENUE	139	ADAMS STREET	58	34	254	11	23
175	CHICOPEE	PVPC	2	MEMORIAL DRIVE	33	PENDLETON AVENUE		34	254	11	23
175	CAMBRIDGE	MAPC	6	MONSIGNOR O'BRIEN HIGHWAY	28	EDWIN H LAND BOULEVARD		34	254	11	23
178	PEABODY	MAPC	4	LOWELL STREET		ENDICOTT STREET		33	253	11	22
178	SALISBURY	MVPC	4	MAIN STREET		INTERSTATE 95 CONNECTOR		33	253	11	22
180	WORCESTER	CMRPC	3	HIGHLAND STREET		PARK AVENUE	12	51	251	10	41
181	TAUNTON	SRPEDD	5	BROADWAY	138	EAST BRITANNIA STREET		30	250	11	19
181	GRANBY	PVPC	2	EAST STATE STREET	202	SCHOOL STREET		30	250	11	19
181	LOWELL	NMCOG	4	BROADWAY STREET		FLETCHER STREET		30	250	11	19
181	DEDHAM	MAPC	6	BOSTON PROVIDENCE TURNPIKE		LEGACY BOULEVARD		30	250	11	19
181	FALL RIVER	SRPEDD	5	BEDFORD STREET		THIRD STREET		30	250	11	19
186	BARNSTABLE	CCC	5	FALMOUTH ROAD	28	PITCHERS WAY		26	246	11	15
186	DENNIS	CCC	5	EAST WEST DENNIS ROAD	134	UPPER COUNTY ROAD		46	246	10	36
188	SPRINGFIELD	PVPC	2	BERKSHIRE AVENUE		COTTAGE STREET		25	245	11	14
188	LOWELL	NMCOG	4	APPLETON STREET	110	SOUTH STREET		25	245	11	14
188	AUBURN	CMRPC	3	WASHINGTON STREET	20	PROSPECT STREET		25	245	11	14
191	STOUGHTON	OCPC	5	PEARL STREET		CENTRAL STREET		24	244	11	13
191	WEYMOUTH	MAPC	6	MAIN STREET	18	PLEASANT SHOPS PLAZA		24	244	11	13
193	BROCKTON	OCPC	5	COURT STREET		NORTH CARY STREET		23	243	11	12
193	SPRINGFIELD	PVPC	2	ARMORY STREET		CAREW STREET	20A	23	243	11	12
193	HARWICH	CCC	5	PLEASANT BAY ROAD		ORLEANS ROAD	39	23	243	11	12
196	WORCESTER	CMRPC	3	LINCOLN STREET	70	CATHARINE STREET		22	242	11	11
196	HANOVER	OCPC	5	COLUMBIA ROAD	53	BROADWAY		22	242	11	11
198	BOSTON	MAPC	6	MORTON STREET		GALLIVAN BOULEVARD	203	21	241	11	10
199	QUINCY	MAPC	6	MCGRATH HIGHWAY		REVERE ROAD		20	240	11	9
199	ROCKLAND	MAPC	5	HINGHAM STREET	228	POND STREET		20	240	11	9



Raised Crosswalk



Chicane



Narrowed Lanes



Mini-roundabout



Dynamic Warning Sign



Speed Table