## **2009 TOP CRASH LOCATIONS REPORT**



## **AUGUST 2011**





Deval L. Patrick, Governor Timothy P. Murray, Lt. Governor Jeffrey B. Mullan, Secretary & CEO Frank DePaola, Acting Administrator



#### Dear Reader:

Enclosed is MassDOT Highway Division's edition of the 2009 *Top Crash Locations Report*, which may be used to evaluate top crash intersection locations and top crash pedestrian and bicycle locations in order to improve the safety of our roadway system. This report, like last year's report, focuses on intersection locations and is based on crashes entered into the Registry of Motor Vehicles' Crash Data System (CDS). The 2009 Report contains the identification of top bicycle-motor vehicle and pedestrian-motor vehicle crash locations. This information is also available by contacting your Regional Planning Agency and MassDOT Highway District Traffic Engineer.

In an effort to reduce injury and fatal crashes, MassDOT, in cooperation with a variety of public and private safety stakeholders, is in the process of updating the Massachusetts Strategic Highway Safety Plan (SHSP). To view the original SHSP (from 2006), download a copy of the Plan or to learn more about it, go to the <u>MassDOT Highway Division Traffic Engineering and Safety website</u>. The Safety Plan identifies the State's key safety needs and can be used to guide investment decisions to achieve significant reductions in highway fatalities and serious injuries on all public roads based upon a data-driven process.

This dataset may be used as a screening tool to evaluate locations and make changes to improve the safety of our roadway system. The 2009 *Top Crash Locations Report* is one of the tools for the statewide Highway Safety Improvement Program (HSIP) to identify safety projects using a data-driven process.

Please note that this report is based only on crash records that have been entered into the statewide crash system and have been geocoded to a specific location. Although Massachusetts General Laws Chapter 90 § 26 and 29 require drivers and police departments to file crash reports that exceed specific thresholds, this is not always the case. Furthermore, not all crashes submitted to the Registry of Motor Vehicles get entered into the crash system. Improving the crash reporting system and the quality of the data will help to focus resources where they are most needed.

I am convinced that we can make great strides in improving safety on Massachusetts roadways for all users. If you have questions, please contact Neil Boudreau, State Traffic Engineer at (617) 973-8211.

Sincerely,

Frank DePaola, P.E. Administrator

Ten Park Plaza, Suite 4160, Boston, MA 02116 Tel: 617-973-7000, TDD: 617-973-7306 www.mass.gov/massdot

### TOP HIGH CRASH LOCATIONS REPORT Top 200 Intersection Locations 2007-2009 Top Pedestrian Locations 2002-2009 Top Bicycle Locations 2002-2009

#### Introduction

MassDOT Highway Division obtains crash data from the MassDOT Registry of Motor Vehicles (RMV) Division and uses it for a number of purposes. The primary function is to provide a foundation for developing safety improvement projects. The Top High Crash Locations Report is one of the tools used in this process. Previously, MassDOT Highway Division, with the assistance from Central Transportation Planning Staff (CTPS), produced a Top 1000 Highway Crash Locations Report which included all types of locations (interchanges, intersections and rotaries). Three years ago, MassDOT Highway Division developed a new report type where the locations identified were crash clusters at intersections (no grade separated locations and no locations with weaving sections). Beginning two years ago, the report also included the top bicycle and pedestrian clusters. This year, MassDOT Highway Division has also prepared a Top High Crash Locations Report which includes the top 200 high crash intersection locations using crash data from 2007-2009 and also includes the weighted (by crash severity) highest frequency bicycle-motor vehicle and pedestrian-motor vehicle crash locations for 2002-2009.

The RMV obtains crash data from State and local police reports and from motor vehicle operators (motorists) who are involved in crashes. The RMV Crash Records Section collects, enters and maintains crash data records, which are the source of the MassDOT Highway Division crash data.

To produce this high crash locations listing, MassDOT Highway Division, with the assistance of Geonetics, has developed an automated procedure for processing, standardizing, matching and aggregating the crash data by geographical location using Geographic Information System (GIS) tools and procedures.

Generally, the geocoding rate (the rate at which crashes can be located to a specific geographical point) for crashes between 2007 and 2009 is nearly 89%. However, the geocoding rate is not uniform for all crashes or for all types of crash locations. Some crashes may be more difficult to geocode because of multiple intersections between the same roadway names within a community, mis-entry of location information on the crash report form or a host of other reasons.

The number of crashes contained within the RMV crash system has changed dramatically due to a shift in data entry. General the crash system is comprised of crash reports from police and operators (drivers). The number of operator reports entered into the statewide crash system has declined dramatically. The table below illustrates the change in data entry at the RMV.

| Paparting Entity | 2005    | 0000    | 0007    | 0000    |         |
|------------------|---------|---------|---------|---------|---------|
| Reporting Entity | 2005    | 2006    | 2007    | 2008    | 2009    |
| Operator         | 40,098  | 40,533  | 34,348  | 26,715  | 9,303   |
| Local police     | 102,698 | 94,602  | 95,400  | 93,649  | 92,819  |
| Other            | 353     | 201     | 153     | 198     | 123     |
| State police     | 14,935  | 14,524  | 14,608  | 15,822  | 15,519  |
| TOTAL            | 158,084 | 149,860 | 144,509 | 136,384 | 117,764 |

Furthermore, the reporting levels of some communities have changed dramatically between the old reporting format (pre-2002) and the new format and as communities move from submitting on paper to submitting electronically (details on reporting level by community are available upon request). Obviously, these reporting changes significantly impact the results of the Top High Crash Locations Report.

Due to the many difficulties in obtaining precise, useable crash location data and many issues involved in variations in crash reporting rates by some jurisdictions, this report should be used as a general purpose screening tool rather than as a precise listing of crash frequencies by individual locations. Furthermore, because of the spatial nature of the crash clusters, it is imperative to view the crash clusters spatially and not just rely on the tabular naming convention to understand the crash cluster locations.

#### Methodology – Intersection Locations

The intersection crash cluster analysis method, developed by Geonetics for MassDOT, is a comprehensive method designed to locate crash clusters. At the heart of the method is a 25 meter (82 ft.) fixed search distance around each crash. In basic terms, this radius controls how far the application will search for adjacent crashes. Using a 25 meter radius, the analysis method found nearby crashes and merged their areas together, thus creating clusters. If two distinct clusters are found to share a common crash, the two clusters are merged into a single cluster. This method of search-and-merge results in a set of many distinct clusters of different sizes and shapes. The application then stores these clusters were then ranked by the number of Equivalent Property Damage Only (EPDO) crashes contained within their boundaries. As in previous Top Crash Lists, fatal crashes are weighted by 10, injury crashes are weighted by 5 and property damage only or non-reported is weighted by 1. These are the same weights that were used to generate the

previous Top 1000 High Crash Locations Report using crash data from the previous crash system.

The crashes were then named based on the highest functional classification roadway within the cluster, followed by the roadway with the second highest functional classification. In instances where there were two roadways with the identical classification, the first street name selected was the street with the longest segment contained within the cluster. Some cluster naming was modified to insert the name of a private way or site drive, rather than leaving it as unnamed. Note that the area encompassing the crash cluster may cover a larger area than just the intersection.

The module to automatically determine whether the location was an intersection, rotary, interchange or other type of facility has not yet been developed. Therefore, a review of each location was required to make that determination. Generally, a location was determined to be an "intersection" if the cluster did not contain roadways with grade separation (interchange) nor weaving sections (rotaries or ramps). The clusters were reviewed in descending EPDO order until 200 locations were obtained. A sample of the top 2 ranked intersection locations is included in this report to illustrate the concept of the intersection clustering. The actual crash clusters can be viewed on the interactive maps at mass.gov/mhd/topcrashclusters. Furthermore, a shape file of the top crash intersection locations is available upon request.

The above method was used to develop the top 200 intersection crash locations for crashes occurring during the three year period from 2007 to 2009. As with previous editions, the crash location analysis has been scored over a three-year period. By using crash experience over the three-year period, anomalies in the individual years of data tend to be reduced.

#### Methodology – Pedestrian and Bicycle Locations

Similar to previous years, the top locations where reported collisions occurred between pedestrians and motor vehicles and bicycles and motor vehicles have been identified. The crash cluster analysis methodology for both the top pedestrian and the top bicycle crashes is similar to the top intersection location methodology in that it uses a fixed meter search distance (for both pedestrian and bicycle crashes it is 100 meters (328 ft.) compared to 25 meters for intersection locations) to merge crash clusters together. Crashes involving collisions between motor vehicles and pedestrians or bicycles were identified by using the non-motorist type code within the CDS database (which may yield different results from using most harmful event, first harmful event, or sequence of events data fields). Furthermore, the methodology uses the Equivalent Property Damage Only (EPDO) weighting to rank the clusters. However, because of the relatively small number of reported pedestrian and bicycle crashes in the crash data file, the clustering analysis used crashes from the <u>eight year</u> period from 2002-2009, instead of

the three year analysis for intersection locations. Additionally, due to the larger geographic area encompassed by both the pedestrian and the bicycle crash clusters, it was difficult to name them so they were left unnamed but can be viewed spatially. The top 10 ranked pedestrian crash locations and the top 10 bicycle crash locations are included in this report. The actual crash clusters can be viewed on the interactive maps at mass.gov/mhd/topcrashclusters.

For further information, please contact Neil Boudreau, State Traffic Engineer, Traffic Engineering and Safety Section, MassDOT Highway Division, 10 Park Plaza, Room 7210, Boston, MA 02116, phone (617) 973-8211.

### NOTICE

It should be noted that the Top 200 High Crash Intersection Locations Report was compiled under the authority of United States Code Title 23, Section 148, Highway Safety Improvement Program, sponsored by the Federal Highway Administration. The compilation of such information is, therefore, subject to the limitations of Section 148 (g) (4) which states:

"Discovery and admission into evidence of certain reports, surveys, and information - Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for any purpose directly relating to paragraph (1) or subsection (c)(1)(D), or published by the Secretary in accordance with paragraph (3), shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location identified or addressed in such reports, surveys, schedules, lists, or other data." 2007-2009 STATEWIDE TOP 200 INTERSECTION CRASH LIST

|          |                               |                      |          | 2007-2009 STATEWIDE TOP 200                           | INTERS     | ECTION CRASH LIST                                 |          |           |            |         |          |                  |
|----------|-------------------------------|----------------------|----------|---|------------|---|----------|-----------|------------|---------|----------|------------------|
|          |                               |                      | District |   |            |   |          | ~         | SE         | 6       | s        | Reported Crashes |
|          |                               |                      |          |   |            |   |          | Crashes   | Crashe     | Crashes | Crashes  | Non R            |
|          |                               |                      | MassDOT  | <del></del>   | -          | Ν   | N        | Cras      |            | Cras    | Cra      | & Nc             |
| ¥        | UMO                           | ۲.                   | ass[     | treet 1   | Route      | e   | Route    | Total (   | OG .       | Fatal ( | Injury   | PDO 8            |
| Rank     | F                             | RPA                  |          | Ó   | Ro         | ŭ   | Ro       |           | EPI        |         |          |                  |
| 1 2      | LOWELL<br>BROCKTON            | NMCOG<br>OCPC        | 4        | VETERANS OF FOREIGN WARS HIGHWAY<br>PLEASANT STREET   | 27         | VARNUM AVENUE<br>WEST STREET                      |          | 137<br>90 | 281<br>242 | 0       | 36<br>38 | 101<br>52        |
| 3        | FRAMINGHAM                    | MAPC                 | 3        | HOLLIS STREET   | 126        | WAVERLEY STREET                                   | 135      | 103       | 235        | 0       | 33       | 70               |
| 4        | SWANSEA                       | SRPEDD               | 5        | GRAND ARMY OF THE REPUBLIC HIGHWAY                    | 6          | SWANSEA MALL DRIVE                                |          | 110       | 230        | 0       | 30       | 80               |
| 5<br>6   | RAYNHAM<br>MILTON             | SRPEDD<br>MAPC       | 5<br>6   | ROUTE 44<br>RANDOLPH AVENUE                           | 44         | ORCHARD STREET<br>CHICKATAWBUT ROAD               |          | 91<br>75  | 227<br>223 | 0       | 34<br>37 | 57<br>38         |
| 7        | LOWELL                        | NMCOG                | 4        | PLAIN STREET  |            | CHELMSFORD STREET                                 | 110      | 125       | 221        | 0       | 24       | 101              |
| 8        | FALL RIVER                    | SRPEDD<br>NMCOG      | 5        | PLYMOUTH AVENUE                                       | 81         | RODMAN STREET                                     |          | 111       | 219<br>217 | 0       | 27       | 84               |
| 9<br>10  | LOWELL<br>SWANSEA             | SRPEDD               | 4        | MIDDLESEX STREET<br>MARKET STREET                     | 136        | WOOD STREET<br>GRAND ARMY OF THE REPUBLIC HIGHWAY | 6        | 121<br>99 | 217        | 0       | 24<br>28 | 97<br>71         |
| 11       | WEYMOUTH                      | MAPC                 | 6        | MAIN STREET   | 18         | MIDDLE STREET                                     |          | 117       | 209        | 0       | 23       | 94               |
| 12<br>13 | FALL RIVER<br>LYNN            | SRPEDD<br>MAPC       | 5        | PRESIDENT AVENUE<br>WESTERN AVENUE                    | 6<br>107   | NORTH MAIN STREET<br>CHATHAM STREET               |          | 103<br>85 | 207        | 0       | 26<br>30 | 77<br>55         |
| 13       | WESTFIELD                     | PVPC                 | 2        | NORTH ELM STREET                                      | 202        | POCHASSIC STREET                                  |          | 112       | 205<br>204 | 0       | 23       | 89               |
| 15       | LOWELL                        | NMCOG                | 4        | BRIDGE STREET   | 38         | VETERANS OF FOREIGN WARS HIGHWAY                  |          | 93        | 201        | 0       | 27       | 66               |
| 16<br>17 | STOUGHTON<br>WORCESTER        | MAPC & OCPC<br>CMRPC | 5        | WASHINGTON STREET<br>BELMONT STREET                   | 138<br>9   | CENTRAL STREET<br>OAK AVENUE                      |          | 112<br>91 | 196<br>195 | 0       | 21<br>26 | 91<br>65         |
| 17       | WORCESTER                     | CMRPC                | 3        | CHANDLER STREET                                       | 9<br>122   | MURRAY AVENUE                                     |          | 75        | 195        | 0       | 30       | 45               |
| 19       | NEW BEDFORD                   | SRPEDD               | 5        | ALFRED BESSETTE MEMORIAL HIGHWAY                      | 140        | KEMPTON STREET                                    | 6        | 75        | 191        | 0       | 29       | 46               |
| 20<br>21 | WORCESTER<br>WEYMOUTH         | CMRPC<br>MAPC        | 3<br>6   | HIGHLAND STREET (LINCOLN SQUARE)<br>WASHINGTON STREET | 9<br>53    | MAIN STREET<br>MIDDLE STREET                      |          | 100<br>91 | 188<br>183 | 0       | 22<br>23 | 78<br>68         |
| 21       | DEDHAM                        | MAPC                 | 6        | WASHINGTON STREET                                     | 55         | INCINERATOR ROAD                                  |          | 62        | 182        | 0       | 30       | 32               |
| 23       | FRAMINGHAM                    | MAPC                 | 3        | WORCESTER ROAD  | 9          | COCHITUATE ROAD                                   | 30       | 69        | 181        | 0       | 28       | 41               |
| 24<br>25 | LYNN<br>BROCKTON              | MAPC<br>OCPC         | 4        | WESTERN AVENUE<br>BELMONT STREET                      | 107<br>123 | FRANKLIN STREET<br>MANLEY STREET                  |          | 86<br>58  | 178<br>174 | 0       | 23<br>29 | 63<br>29         |
| 25       | CAMBRIDGE                     | MAPC                 | 6        | MASSACHUSETTS AVENUE                                  | 2A         | PROSPECT STREET                                   |          | 85        | 174        | 1       | 20       | 64               |
| 27       | BOSTON                        | MAPC                 | 6        | MASSACHUSETTS AVENUE                                  |            | MELNEA CASS BOULEVARD                             |          | 72        | 172        | 0       | 25       | 47               |
| 27<br>27 | CHICOPEE<br>SEEKONK           | PVPC<br>SRPEDD       | 2        | BROADWAY<br>TAUNTON AVENUE                            | 44         | CHURCH STREET<br>FALL RIVER AVENUE                | 114A     | 76<br>80  | 172<br>172 | 0       | 24<br>23 | 52<br>57         |
| 30       | SOMERVILLE                    | MAPC                 | 4        | MYSTIC AVENUE   | 38         | MCGRATH HIGHWAY                                   | 28       | 67        | 171        | 0       | 26       | 41               |
| 30       | LYNN                          | MAPC                 | 4        | WESTERN AVENUE  | 107        | WASHINGTON STREET                                 | 129      | 75        | 171        | 0       | 24       | 51               |
| 32<br>32 | FALL RIVER<br>LINCOLN,CONCORD | SRPEDD<br>MAPC       | 5<br>4   | PLEASANT STREET<br>CONCORD TURNPIKE (CROSBY'S CORNER) | 2          | QUARRY STREET<br>CAMBRIDGE TURNPIKE               | 2        | 92<br>84  | 168<br>168 | 0       | 19<br>21 | 73<br>63         |
| 34       | LOWELL                        | NMCOG                | 4        | CHURCH STREET   | 110        | APPLETON STREET                                   |          | 83        | 167        | 0       | 21       | 62               |
| 34       | WALTHAM<br>NORWOOD            | MAPC<br>MAPC         | 4        | LEXINGTON STREET<br>BLUE STAR MEMORIAL HIGHWAY        |            | TRAPELO ROAD<br>EVERETT STREET                    |          | 91<br>73  | 167<br>165 | 0       | 19<br>23 | 72<br>50         |
| 36<br>37 | BOSTON                        | MAPC                 | 5<br>6   | MORTON STREET   | 1<br>203   | HARVARD STREET                                    |          | 52        | 165        | 0       | 23       | 24               |
| 37       | WORCESTER                     | CMRPC                | 3        | SOUTHBRIDGE STREET                                    |            | HAMMOND STREET                                    |          | 68        | 164        | 0       | 24       | 44               |
| 37<br>37 | FRAMINGHAM<br>WEYMOUTH        | MAPC<br>MAPC         | 3        | WORCESTER ROAD<br>MAIN STREET                         | 9<br>18    | TEMPLE STREET<br>POND STREET                      |          | 76<br>80  | 164<br>164 | 0       | 22<br>21 | 54<br>59         |
| 41       | WORCESTER                     | CMRPC                | 3        | PARK AVENUE   | 9          | PLEASANT STREET                                   |          | 91        | 163        | 0       | 18       | 73               |
| 42       | BROCKTON                      | OCPC                 | 5        | BELMONT STREET  | 123        | LINWOOD STREET                                    |          | 62        | 162        | 0       | 25       | 37               |
| 43<br>44 | MARLBOROUGH<br>WORCESTER      | MAPC<br>CMRPC        | 3        | EAST MAIN STREET<br>PARK AVENUE                       | 20<br>9    | CURTIS AVENUE<br>HIGHLAND STREET                  | <u> </u> | 101<br>83 | 161<br>159 | 0       | 15<br>19 | 86<br>64         |
| 44       | SHREWSBURY                    | CMRPC                | 3        | BOSTON TURNPIKE                                       | 9          | SOUTH STREET                                      |          | 79        | 159        | 0       | 20       | 59               |
| 46       | LOWELL                        | NMCOG                | 4        | THORNDIKE STREET                                      | 3A         | HIGHLAND STREET                                   |          | 82        | 158        | 0       | 19       | 63               |
| 46<br>48 | WORCESTER<br>MIDDLEBOROUGH    | CMRPC<br>SRPEDD      | 3<br>5   | LINCOLN STREET<br>ROUTE 44                            | 70<br>44   | MARSH AVENUE<br>PLYMPTON STREET                   | 105      | 78<br>72  | 158<br>157 | 0       | 20<br>19 | 58<br>52         |
| 49       | WOBURN                        | MAPC                 | 4        | MAIN STREET   | 38         | PLEASANT STREET                                   |          | 92        | 156        | 0       | 16       | 76               |
| 50       | BROCKTON                      | OCPC                 | 5        | ASH STREET  | 24         | WEST ELM STREET                                   |          | 59        | 155        | 0       | 24       | 35               |
| 50<br>52 | QUINCY                        | MAPC<br>NMCOG        | 6        | SOUTHERN ARTERY<br>VETERANS OF FOREIGN WARS HIGHWAY   | 3A         | MCGRATH HIGHWAY<br>AIKEN STREET                   |          | 71<br>68  | 155<br>152 | 0       | 21<br>21 | 50<br>47         |
| 53       | SUTTON                        | CMRPC                | 3        | WORCESTER PROVIDENCE TURNPIKE                         | 146        | BOSTON ROAD                                       |          | 67        | 151        | Ő       | 21       | 46               |
| 54<br>55 | WORCESTER<br>BOSTON           | CMRPC<br>MAPC        | 3        | LINCOLN STREET<br>DORCHESTER AVENUE                   | 70         | MELROSE STREET<br>GALLIVAN BOULEVARD              | 203      | 53<br>49  | 150<br>149 | 1       | 22<br>25 | 30<br>24         |
| 55       | QUINCY                        | MAPC                 | 6        | HONORABLE THOMAS S BURGIN PARKWAY                     |            | CENTRE STREET                                     | 203      | 73        | 149        | 0       | 25<br>19 | 54               |
| 57       | FRAMINGHAM                    | MAPC                 | 3        | COCHITUATE ROAD                                       | 30         | SPEEN STREET                                      |          | 76        | 148        | 0       | 18       | 58               |
| 58<br>58 | WORCESTER<br>HOLBROOK         | CMRPC<br>MAPC        | 3<br>5   | BELMONT STREET<br>SOUTH FRANKLIN STREET               | 9<br>37    | LINCOLN STREET<br>UNION STREET                    | 139      | 79<br>63  | 147<br>147 | 0       | 17<br>21 | 62<br>42         |
| 58       | FALL RIVER                    | SRPEDD               | 5        | SOUTH PRANKLIN STREET                                 | 138        | GLOBE STREET                                      | 155      | 83        | 147        | 0       | 16       | 67               |
| 58       | PLAINVILLE                    | SRPEDD               | 5        | MESSENGER STREET                                      | 106        | TAUNTON STREET                                    | 152      | 67        | 147        | 0       | 20       | 47               |
| 62       | ABINGTON                      | OCPC                 | 5        | BEDFORD STREET  | 18         | RANDOLPH STREET                                   | 139      | 86        | 146        | 0       | 15       | 71               |

2007-2009 STATEWIDE TOP 200 INTERSECTION CRASH LIST

| y           |      |            |        |                  | 2007-2009 STATEWIDE TOP 200        | INTERS  |                             |          |               |              |               |    |       |
|---|------|------------|--------|------------------|------------------------------------|---------|-----------------------------|----------|---------------|--------------|---------------|----|-------|
| 65         MORRAY         MAR         MAR </td <td>tank</td> <td>Town</td> <td>RPA</td> <td>MassDOT District</td> <td>Steet 1</td> <td>Route 1</td> <td>Street 2</td> <td></td> <td>Total Crashes</td> <td>EPDO Crashes</td> <td>Fatal Crashes</td> <td></td> <td>&amp; Non</td>  | tank | Town       | RPA    | MassDOT District | Steet 1                            | Route 1 | Street 2                    |          | Total Crashes | EPDO Crashes | Fatal Crashes |    | & Non |
| BO         FixAMAGE 200         BOY         D         Conception Addition         D <thd< th=""> <thd< th="">         D         <t< td=""><td></td><td>WORLIDN</td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<></thd<></thd<>  |      | WORLIDN    |        |                  |                                    | _       |                             |          |               |              |               |    |       |
| Téc         MARGERO         BREZO         B         BOUT 14         CM         CHONCE 11         CM         CHONCE 11         CM         CM <thcm< th="">        CM        CM         <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<></thcm<>  |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 66         WORKESTER         ONE         7         144         0         18         84           0         DUD         PCC         1         PUD         PUD         1         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0 <td></td>  |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| PF         OUNCY         MAPC         0         PAREDAD         CASE ONE         PAREDAD         CASE ONE         PAREDAD   |      |            |        |                  |                                    |         |                             |          |               |              | -             |    |       |
| TP         WRSTREID         PMC         2         LAST MAN STREFT         20         UTLE SPECE ADDRESS         SPEC         63         64.0         0         23         31           9         SOMAGRAM UNIT GEREPRUCH LIGHNAY         1         DALES PRES ADDRES         50         64.0         0         2.0         31           71         DIRCY         A         COMMONING TREE PRUCH LIGHNAY         1         DALES PRES ADDRES         70         10         10         0         16  |      |            |        |                  |                                    |         |                             |          |               |              | ÷             |    |       |
| Image: Discrete State of the State |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| BD         CONCISION         MARC         4         CONCISION         2         MARK STREET         67         61         61         60         60         60           TN         BRIDGRWATER         CONCISION STREET         18         CONCISION STREET         17         CONCISION STREET         17         CONCISION STREET         18         14         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04   | 67   | WESTFIELD  | PVPC   | 2                |                                    | 20      | LITTLE RIVER ROAD           | 187      | 55            | 143          | 0             | 22 | 33    |
| T1         DREWCOD         MAGE         6         BUE STAR MERDONAL INGENOV         1         DECOMPTION         Composition         Composition <thcomposition< th="">         Composition</thcomposition<>  | 69   | SOMERSET   | SRPEDD | 5                | GRAND ARMY OF THE REPUBLIC HIGHWAY | 6       | LEES RIVER AVENUE           |          | 53            | 141          | 0             | 22 | 31    |
| T1         BURY         BAPC         C         SUTHERN ATTERY         BA         BA         CODEWATCH         DOT         S         Med         D         S         BO           T1         BURCHARTE         CODC         5         BURCHARTE         TA         TA         BURCHARTE         TA         BURCHARTE         TA         BURCHARTE         TA         BURCHARTE         TA         TA         BURCHARTE         TA         TA         TA         BURCHARTE         TA         BURCHARTE         TA  | 69   | CONCORD    | MAPC   | 4                | CONCORD TURNPIKE                   | 2       | MAIN STREET                 | 62       | 61            | 141          | 0             | 20 | 41    |
| T1         BURY         BAPC         C         SUTHERN ATTERY         BA         BA         CODEWATCH         DOT         S         Med         D         S         BO           T1         BURCHARTE         CODC         5         BURCHARTE         TA         TA         BURCHARTE         TA         BURCHARTE         TA         BURCHARTE         TA         BURCHARTE         TA         TA         BURCHARTE         TA         TA         TA         BURCHARTE         TA         BURCHARTE         TA  | 71   | NORWOOD    | MAPC   | 5                | BLUE STAR MEMORIAL HIGHWAY         | 1       | DEAN STREET                 |          | 88            | 140          | 0             | 13 | 75    |
| T1         BROGEWATER         CCPC         6         BROAD STREET         18         MAM STREET         28         76         140         0         0         10           11         CAMOS ROP         PAPC         10         MAM STREET         110         CAMOS ROP         20         130         0         10         130           77         CAMOS ROP MARC         0         NEXCON ROPECT         53         COMMARCA STREET         72         138         0         10         13         73           77         VEXCON REVENTER         64         COMMARCA STREET         72         138         0         16         43         16         16         43         16         16         44   |      |            |        |                  |                                    | 3A      |                             |          |               |              | 0             |    |       |
| T1         HQLYOLE         PVPC         2         NAMA STREET         T10         CADO STREET         51         H40         1         20         00           77         DEGOCTOR         COCC         6         WESTERDET         51         REGOCTOR         02         138         0         10 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>28</td><td></td><td></td><td></td><td></td><td></td></td<>   |      |            |        |                  |                                    |         |                             | 28       |               |              |               |    |       |
| T5         BROCKTOW         OCCC         5         WESTER M STREET         43         839         6         84         18           T0         COMPAGE BANTERET         1         ROTE         4         130         6         14         130         14           T7         COMPAGE BANTERET         1         ROTE         4         130         14         150           T7         CORE SEA         MARC         6         MARCAN STREET         1         160         150         160   |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| TP         CAMBRIGGE         MAPC         6         MEMORAL DRIVE         3         RVER STREET         62         136         0         19         43           70         WEXMONTHRAURTER         50         COMMERCAL STREET         51         COMMERCAL STREET         64         156         0         13         71           70         WEXMONTRALTING STREET         27         NORTH AN STREET         64         154         0         14         64           80         BRANTEE         MAPC         6         GRANTESTREET         37         COMMON STREET         77         153         0         14         64           80         BRANTEE         MAPC         6         GRANTESTREET         77         153         0         14         64           80         WORCSSTER         CARPC         3         MARTESTREET         77         153         0         14         64           80         WORCSSTER         CARPC         3         MARTESTREET         77         153         0         16         16         163         0         16         16         163         16         16         163         16         16         163         16         16  |      |            |        |                  |                                    | 110     |                             |          |               |              |               |    |       |
| T7     WEYNOUTH BRANNTRES     MAPC     6     WASHNOTON STREET     5     COMMERCIAL STREET     7       T7     CHILSSAN     MAPC     6     CENTRAL AVENUE     SWAWD'S TREET     7     7       TS     SWAWT'S TREET     7     CHILSSAN     MAPC     6     CENTRAL       SWAWT'S TREET     MAPC     6     PLANNTES TREET     7     000000000000000000000000000000000000   |      |            |        |                  |                                    | 2       |                             |          |               |              |               |    |       |
| T7         CHELSEA         MAPC         6         CENTRAL AVENUE         SHAWAUT STREET         PANNAL AVENUE           77         BROCKTON         OCIC         6         PLEAAWIT STREET         27         NORTH AN ISTREET         40         50         0         28         20           20         BROCKTON         OCIC         6         PLEAAWIT STREET         27         NORTHET         40         15         0         13         0         16         84           21         FALL NVER         SHEPED         6         15         BEORDAN         6         16         86           22         FALL NVER         SHEPED         0         TROVERSTEET         7         133         0         14         83           24         MORCHSTER         MARC         MART STREET         0         TROVERSTEET         12         60         132         0         14         84           24         MORTMANE         MART         STREET         0         TROVERSTEET         12         60         132         0         16         16         15           24         MARTMANE STREET         9         RANDESTEET         9         CANDESTEET         12         60  |      |            |        | -                |                                    |         |                             |          |               |              |               |    |       |
| TP         BROCKTON         COCC         6         PLEASANT STREET         27         NORTH ASI STREET         43         33         0         23         20           00         BRARTREE         MARC         6         GRANTE STREET         37         COMMON STREET         67         144         64         44           00         WORCASTER         CLARPO         3         PARK AURINE         9         MAX STREET         67         133         0         144         64           80         WORCASTER         CLARPC         3         MANA STREET         77         733         0         148         42           44         WORCASTER         CLARPC         3         MANA STREET         CLANDLES STREET         122         0         133         0         148         42           45         WORCASTERT         CLARPC         3         MANA STREET         CLANDLES STREET         120         131         0         20         31         42         331         0         148         42           46         WORDSTIND         MARC         4         MANA STREET         120         44         147         140         20         31         0         148   |      |            |        |                  |                                    | 53      |                             |          |               |              |               |    |       |
| BRANTREE         MARC         6         GRANTREE         SPACE         14         0         18         44           00         WORGSTER         OMM C         3         FRANCENCE         9         MAY STREET         77         134         0         144         64           00         WORGSTER         OMM C         6         MONORAL TINGMAS BURGIN PARKWAY         FRANCENCE         77         133         0         144         64           14         WORGSTER         OMM C         1         MASTREET         122         0         152         0         154         42           44         WORGSTER         OMM C         4         MSANWAR DOAD         WORGSTER         60         152         0         164         42           44         WORGSTER         MARC         4         MSANWAR DOAD         WORGSTER         62         62         151         131         0         22         131         0         232         131         0         232         131         0         232         131         0         232         131         0         232         131         0         232         131         0         232         131         131   |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| B00         WORCSSTER         CMMPC         3         PARK AVENUE         9         MAY STREET         77         194         0         144         64           26         FALLENVER         SRPEDD         6         REVORDS STREET         77         193         0         148         64           28         OWANCETER         MARC         6         HONORAD STREET         CPU STREET         77         193         0         148         42           84         WORDERN         MARC         4         MANANDROAD         COMPORT STREET         12         0         12         0         13         0         148         42           84         WORDERN         MARC         4         MANANDROAD         CANANDROAD         COMPORT STREET         13         0         13         0         13         0         13         0         13         0         13         0         14         65         13         0         14         65         13         0         13         15         13         0         13         0         13         15         13         0         13         0         13         16         16         16         16         16  |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| FALL RIVER         SPEEDD         5         BEFORD STREET         TROY STREET         TO         57         133         0         19         38           22         OUNCY         MARC         6         HONDRALL THORAS SULGIN PARKWY         CRAVIT STREET         77         133         0         19         38           24         WORCSTER         CAMPC         3         MAR STREET         71         133         0         18         42           24         WURNSTON         MARC         4         MAIN STREET         30         0         18         42           27         PRAMENTON         MARC         4         MAIN STREET         9         KING STREET         6         67         131         0         16         61 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>÷</td><td></td><td></td></td<>  |      |            |        |                  |                                    |         |                             |          |               |              | ÷             |    |       |
| R2         QUINCY         MARC         6         HONDRABL THOMAS S BURGIN PARKWAY         GRAAPTE STREET         17         133         0         14         63           d4         WORESTER         CMARC         3         MAIN STREET         CHANDLE STREET         122         00         132         0         14         63           84         WORENN         MARC         4         MSHWMAR ADD         VOE STREET         120         0         132         0         14         63           84         WORENN         MARC         4         MSHWMAR ADD         9         CONCOND         141         0         151         0 <t< td=""><td>80</td><td>WORCESTER</td><td>CMRPC</td><td>3</td><td>PARK AVENUE</td><td>9</td><td>MAY STREET</td><td></td><td>78</td><td>134</td><td>0</td><td>14</td><td>64</td></t<>  | 80   | WORCESTER  | CMRPC  | 3                | PARK AVENUE                        | 9       | MAY STREET                  |          | 78            | 134          | 0             | 14 | 64    |
| 64         WORCESTER         CMARC         3         MANN STREET         CHANDLER STREET         122         60         132         0         16         42           64         WORLBRN         MAPC         4         MAN STREET         36         CHURCH STREET         62         532         0         16         42           64         WILMINGTON         MAPC         4         MAN STREET         38         CHURCH STREET         62         632         132         0         16         42           64         WILMINGTON         MAPC         4         MAN STREET         38         CHURCH STREET         16         64         133         0         18         40           68         NATCK         MAPC         3         WORCSSTER STREET         9         OAK STREET         12         86         130         0         11         75           61         CHICOPE         PAPIC         2         WENGRINAL STREET         135         SPEEN STREET         12         56         120         0         12         24         0         12         24         0         12         24         12         14         14         26         120         0 <td< td=""><td>82</td><td>FALL RIVER</td><td>SRPEDD</td><td>5</td><td>BEDFORD STREET</td><td></td><td>TROY STREET</td><td></td><td>57</td><td>133</td><td>0</td><td>19</td><td>38</td></td<>   | 82   | FALL RIVER | SRPEDD | 5                | BEDFORD STREET                     |         | TROY STREET                 |          | 57            | 133          | 0             | 19 | 38    |
| 64         WORCESTER         CMARC         3         MANN STREET         CHANDLER STREET         122         60         132         0         16         42           64         WORLBRN         MAPC         4         MAN STREET         36         CHURCH STREET         62         532         0         16         42           64         WILMINGTON         MAPC         4         MAN STREET         38         CHURCH STREET         62         632         132         0         16         42           64         WILMINGTON         MAPC         4         MAN STREET         38         CHURCH STREET         16         64         133         0         18         40           68         NATCK         MAPC         3         WORCSSTER STREET         9         OAK STREET         12         86         130         0         11         75           61         CHICOPE         PAPIC         2         WENGRINAL STREET         135         SPEEN STREET         12         56         120         0         12         24         0         12         24         0         12         24         12         14         14         26         120         0 <td< td=""><td>82</td><td>QUINCY</td><td>MAPC</td><td>6</td><td>HONORABLE THOMAS S BURGIN PARKWAY</td><td></td><td>GRANITE STREET</td><td></td><td>77</td><td>133</td><td>0</td><td>14</td><td>63</td></td<>   | 82   | QUINCY     | MAPC   | 6                | HONORABLE THOMAS S BURGIN PARKWAY  |         | GRANITE STREET              |          | 77            | 133          | 0             | 14 | 63    |
| B4         WOBURN         MAPC         4         MESHAWA ROAD         WOBURN MALL SHOPPING CENTER         0         00         132         0         16         42           44         WUMNOTON         PAVC         2         MAN STREET         38         CHURCH STREET         62         67         13         0         16         64  |      |            | CMRPC  | 3                |                                    |         |                             | 122      | 60            | 132          | 0             | 18 |       |
| 84         WILINGTON         MAPC         4         MAIN STREET         38         CHURCH STREET         62         52         131         0         20         32           87         NORTHAMPTON         PAPC         2         MAIN STREET         126         HARTCRO STREET         2         MAIN STREET         126         HARTCRO STREET         126         56         51         131         0         20         31           89         DATOCH         MARC         3         CONCORD STREET         126         MARTCREET         126         51         131         0         130         0         131         64           91         NATCK         MAPC         4         WEST CENTRAL STREET         135         SPEEN STREET         451         120         121         24           91         CHICOPE         PWRC         4         MEMORIAL STREET         451         251         10         16         38           44         WORCESTER         CAMPC         4         ESSEX STREET         451         26         277         70         72         70         72         70         74         74         74         74         74         74         74         74   |      |            |        |                  |                                    |         | WOBURN MALL SHOPPING CENTER |          |               |              |               |    |       |
| BY       NORTHAMPTON       PVPC       2       MAIN STREET       9       KNO STREET       5       67       131       0       16       61         87       FRAMINGHAM       MAPC       4       OONCORD STREET       126       HART FORD STREET       126       58       300       0       18       40         88       NORTA       MAPC       4       OONCORD STREET       9       OAK STREET       126       58       300       0       18       40         80       NATICA       MARC       4       OONCORD STREET       16       OAK STREET       126       16       172       24         91       LYNN       MAPC       4       ESSK XTREET       135       PENDLETON AVENUE       75       128       1       16       180         93       LYNN       MAPC       3       MAIN STREET       130       OC STREET       16       38       177       0       17       42         94       BROCKTON       OCPC       5       MAIN STREET       120       121       121       121       121       121       121       121       121       121       121       121       121       121       121 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>38</td><td></td><td>62</td><td></td><td></td><td></td><td></td><td></td></td<>   |      |            |        |                  |                                    | 38      |                             | 62       |               |              |               |    |       |
| BP       FRAMINGHAM       MAPC       3       CONCORD STREET       126       HARTFORD STREET       51       131       0       20       31         88       CONCORD       MAPC       3       WORGESTER STREET       9       OAK STREET       86       130       0       11       76         91       NATICK       MAPC       3       WORGESTER STREET       9       OAK STREET       86       130       0       11       76         91       NATICK       MAPC       2       MEST CENTRAL STREET       9       OAK STREET       77       120       0       2       24         94       MORGESTER       CARCESTER       CONCORD       16       37       16       38       27       16       37         94       BROCKTON       OCPC       5       NORTH MAIN STREET       LEGION PARKWAY       12       47       127       0       16       37         97       REXCHON       OCPC       5       NORTH MAIN STREET       12       120       128       127       0       18       36       120       12       12       12       12       13       0       12       16       37       135       60 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>  |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| B8         CONCORD         MAPC         4         CONCORD TURNPRE         2         WALDEN STREET         126         68         130         0         18         40           91         NATICK         MAPC         3         WORCSTERET         9         OAK STREET         77         129         0         13         64           91         CHICOPEE         P/PC         2         MEMORAL DRIVE         33         PENLETON AVENUE         45         129         0         21         24           94         WORCSTERET         JOYCE STREET         12         95         128         16         38           94         BORCSTON         CORC         3         MAIN STREET         12         16         38           94         BORCSTON         CORC         6         NUNTSTRETTERT         MEGION PARKWAY         12         56         127         0         13         37           97         NERTON         MARC         6         COMMONWEALTH AVENUE         30         LEXINGTON STREET         128         54         16         0         12         16         36           197         BROCKTON         OACPC         6         COMMAINTSTREET         128 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td>  |      |            |        |                  |                                    |         |                             | <u> </u> |               |              |               |    |       |
| B0         NATICK         MAPC         3         WORCESTER STREET         9         OAK STREET         77         123         0         11         75           91         NATICK         MAPC         3         WEST CENTRAL STREET         135         SPEEN STREET         77         123         0         13         64           91         NATICK         MAPC         4         ESSEX STREET         35         SPEEN STREET         45         123         0         13         64           91         NAT         MAPC         4         ESSEX STREET         30         VORCE STREET         45         123         11         16         38           94         WORCERTER         COMPC         5         MAIN STREET         MAIN STREET         12         128         17         127         0         120         27           97         NEWTON         MAPC         6         COMINTNEET         18         PARK AVENE         70         126         0         14         56           97         NEWTON         MAPC         6         MAIN STREET         18         PARK AVENUE         70         126         0         14         56         13         50  |      |            |        |                  |                                    |         |                             | 100      |               |              |               |    |       |
| 91         NATCK         MAPC         3         WEST CENTRAL STREET         135         SPEEN STREET         77         129         0         13         64           91         CHICOPEE         PPK C         2         MEMORAL DRIVE         33         PENDLETON AVENUE         45         120         0         13         64           93         LVNN         MAPC         4         ESSEX STREET         JOYCE STREET         155         128         1         16         38           94         WORCESTER         CMMPC         3         MUNISTREET         12         69         17         42           94         BROCKTON         OCPC         5         NORTH MAIN STREET         9         HOWARD STREET         123         47         12         0         20         22           97         NECKTON         OCPC         6         COUNT STREET         9         HARCOND         120         120         120         120         22         26         56         130         60         120         120         120         120         14         56         120         14         56         120         14         56         120         14         56 <t< td=""><td></td><td>LONCORD</td><td>MAPC</td><td></td><td></td><td></td><td></td><td>120</td><td></td><td></td><td></td><td></td><td></td></t<>  |      | LONCORD    | MAPC   |                  |                                    |         |                             | 120      |               |              |               |    |       |
| 91         CHICOPEE         PVPC         2         MEMORIAL DRIVE         33         PENDLETON AVENUE         44         129         0         21         24           93         LYNN         MAPC         4         ESSEX STRET         JOYCE STREET         12         59         122         0         17         42           94         WORCESTER         CMRPC         3         MAIN STREET         HOWARD STREET         12         47         127         0         20         27           94         BROCKTON         OCCPC         5         MAIN STREET         LEGION PARKWAY         123         47         127         0         20         26           97         NEVTON         MAPC         6         COMMOWELTH AVENUE         30         LEINIGTON STREET         46         128         0         18         36           97         NEVTON         OCPC         5         COURT STREET         12         MAIN STREET         28         54         126         0         18         36           100         LEGNINSTRER         MAPC         6         MAIN STREET         73         125         0         16         44           101         LEGNINSTRET  |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 93         LYNN         MAPC         4         ESSEX STREET         JOYCE STREET         JOYCE STREET         10         38           94         WORKESTER         CORPC         5         MAIL STREET         12         59         127         0         16         77         42           94         BROCKTON         OCPC         5         NORTH MAIN STREET         LEGION PARKWAY         123         47         10         10         12         10         10         20         27           97         NEWTON         MAPC         6         COMMONWEALTH AVENUE         30         LEKINGTON STREET         28         54         128         0         12         26         14         56           97         WEYMOUTH         MAPC         6         MAIN STREET         12         NORTH MAIN STREET         128         0         14         56         128         0         14         56           100         LEOMINSTER         MAPC         4         MSESTREET         18         PARK AVENUE         70         128         0         16         44           100         LEOMINSTER         MARCG         3         MGHUM ROAD         COMMERCE WAY         60         1  |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 94         WORCESTER         CMRPC         3         MAIN STREET         MILL STREET         12         59         127         0         17         42           94         BROCKTON         OCPC         5         NORTH MAIN STREET         HOWARD STREET         55         127         0         18         37           94         BROCKTON         OCPC         5         NORTH MAIN STREET         LEGION PARKWAY         123         47         127         0         20         27           97         NEWTON         MAPC         6         COMMONWELTH AVENUE         30         LEXINGTON STREET         28         54         128         0         14         56           100         LOWNELL         MAPC         6         MAIN STREET         18         PARK AVENUE         70         126         0         14         56           100         LOWNELL         NACOG         4         WISTRET         12         NELSON STREET         70         126         0         14         45           100         LOWNELL         NACOG         4         WISTREET         14         AVEND         73         125         0         14         53           100   |      |            |        |                  |                                    | 33      |                             |          |               |              | 0             |    |       |
| 94         BROCKTON         OCPC         5         NORTH MAIN STREET         HOWARD STREET         EEG (DARKWAY)         123         47         127         0         20         27           97         NEXTON         MAPC         6         COMMONWEALTH AVENUE         30         LEXINGTON STREET         46         126         0         20         286           97         NEXTON         OCPC         5         COUNT STREET         27         MONTELLO STREET         28         41         26         0         18         36           100         LEOMINISTER         MRPC         6         MAIN STREET         18         PARK AVENUE         70         126         0         14         56           100         LOWELL         MAPC         4         MISTREET         12         NELSON STREET         73         126         0         16         44           103         VECKORG         4         MISTREET         34         WILDER STREET         67         123         0         13         58           103         SEEKONK         SRRPED         5         FALL MAWIM ROAD         FALL MAIN STREET         46         122         0         16         42         0  |      |            |        |                  |                                    |         |                             |          |               |              | 1             |    |       |
| 94         BROCKTON         OCPC         5         MAIN STREET         LEGION PARKWAY         123         47         127         0         20         27           97         NEWTON         MAPC         6         COMMONWEALTH AVENUE         30         LEXINGTON STREET         46         126         0         128         36           97         WEYMOUTH         MAPC         6         MAIN STREET         12         NORTLED STREET         28         54         126         0         14         56           100         LOWRLL         NARCO         4         WESTORD STREET         12         NELSON STREET         61         125         0         16         45           100         LOWRLL         NARCO         4         WISTORD STREET         12         NARVARD STREET         61         125         0         16         45           103         WORCESTER         CMRPC         4         MISHAWUM ROAD         COMMERCE WAY         60         124         0         13         58           103         WORCESTER         CMRPC         3         HARGINON STREET         12         HARRISON STREET         67         123         0         14         53   |      |            |        |                  |                                    |         |                             | 12       |               |              |               |    |       |
| 97       NEWTON       MAPC       6       COMMONWEALTH AVENUE       30       LEXINGTON STREET       46       128       0       20       26         97       RECORTON       OCPC       5       COUNT STREET       27       MONTELLO STREET       28       54       128       0       14       56         100       LEOMINSTER       MRPC       3       MONTELLO STREET       12       NELSON STREET       70       128       0       14       56         100       LEOMINSTER       MRPC       3       NORTH MAIN STREET       12       NELSON STREET       61       125       0       16       45         102       WORUBUN       MAPC       4       WESTFORD STREET       9       HARVARD STREET       60       124       0       14       53         103       SECKONK       SRPEDD       5       FALL RIVER AVENUE       6       COMMERCE WAY       71       123       0       14       53         105       FERMINGHAM       MAPC       3       HARDING STREET       122       HARBINGON STREET       58       122       0       13       58         105       WORCESTER       CAMPC       3       HARDING STREET       22<  |      |            |        |                  |                                    |         |                             |          |               |              | 0             | 18 |       |
| 97       BROCKTON       OCPC       5       COURT STREET       27       MONTELLO STREET       28       54       126       0       18       38         197       WEYMOUTH       MAPC       6       MAIN STREET       18       PARK AVENUE       70       128       0       148       56         100       LOWELL       NMCOG       4       WESTFORD STREET       3A       WILDER STREET       73       125       0       16       45         102       WOBURN       MAPC       4       MISHAWUM ROAD       COMMERCE WAY       61       125       0       16       44         103       SEEKONK       SAREDD       5       FALL RIVER AVENUE       6       COMMERCE WAY       71       123       0       14       53         105       FRAIMGHAM       MAPC       3       HARDING STREET       122       HARRISON STREET       46       122       0       19       27         105       FRAIMINGHAM       MAPC       3       HARDING STREET       22       HARDING STREET       46       122       0       16       42         105       FRAIMINGHAM       MAPC       3       EAST CENTRAL STREET       SUMARINGTON STREET   | 94   | BROCKTON   | OCPC   | 5                | MAIN STREET                        |         | LEGION PARKWAY              | 123      | 47            | 127          | 0             | 20 | 27    |
| 97         WEYMOUTH         MAPC         6         MAIN STREET         18         PARK AVENUE         70         126         0         14         56           100         LEOMINSTER         MRPC         3         NORTH MAIN STREET         12         NELSON STREET         73         125         0         13         60           100         LEOMINSTER         MRPC         4         MISHAWUM ROAD         COMMERCE WAY         60         124         0         16         44           103         SEEKONK         SRPEDD         5         FALL RIVER AVENUE         6         COMMERCE WAY         71         123         0         14         53           103         SEEKONK         SRPEDD         5         FALL RIVER AVENUE         6         COMMERCE WAY         71         123         0         14         53           105         FRAMINGHAM         MAPC         3         HARDNG STREET         122         HARRISON STREET         66         122         0         16         42           105         WORCESTER         CAMPC         3         KORCESTER ROAD         9         CALOR ROAD         58         122         0         17         37           105  | 97   | NEWTON     | MAPC   | 6                | COMMONWEALTH AVENUE                | 30      | LEXINGTON STREET            |          | 46            | 126          | 0             | 20 | 26    |
| 100       LEOMINSTER       MRCC       3       NORTH MAIN STREET       12       NELSON STREET       73       125       0       13       60         100       LOWELL       NMCOG       4       WESTFORD STREET       34       WULER STREET       61       125       0       16       45         102       WORUSTER       CMMPCC       4       MISHAWUM ROAD       COMMERCE WAY       60       124       0       16       44         103       WORUSTER       CMMPC       3       HIGHLAND STREET       9       HARVADD STREET       67       123       0       13       58         103       SEEKONK       SRPEDD       5       FALL RIVER AVENUE       6       COMMERCE WAY       71       123       0       13       58         105       FRAMINGHAM       MAPC       3       HARDING STREET       9       CALDOR ROAD       58       122       0       16       42         105       WORCESTER       CMMPC       3       EAST CENTRAL STREET       SUMMER STREET       54       122       0       22       12       0       16       42         106       WELESLEY       MAPC       6       WORCESTER COAD       9   | 97   | BROCKTON   | OCPC   | 5                | COURT STREET                       | 27      | MONTELLO STREET             | 28       | 54            | 126          | 0             | 18 | 36    |
| 100         LEOMINSTER         MRPC         3         NORTH MAIN STREET         12         NELSON STREET         73         125         0         13         60           100         LOWELL         NMCOG         4         WESTFORD STREET         34         WILDER STREET         61         125         0         16         45           103         WORCBSTER         CMPRC         3         MICHAND STREET         9         HARVARD STREET         67         123         0         14         53           103         SEEKONK         SREEDD         5         FALINVER AVENUE         6         COMMERCE WAY         71         123         0         13         58           105         FRAMINGHAM         MAPC         3         HARDING STREET         122         HARRISON STREET         58         122         0         16         42           105         FRAMINAHAM         MAPC         3         EAST CENTRAL STREET         SUMMER STREET         58         122         0         16         42           105         WERTELD         PVPC         2         FRANKIN STREET         SUMMER STREET         58         122         0         17         37           105  | 97   | WEYMOUTH   | MAPC   | 6                | MAIN STREET                        | 18      | PARK AVENUE                 |          | 70            | 126          | 0             | 14 | 56    |
| 100       LOWELL       NMCOG       4       WESTFORD STREET       3A       WILDER STREET       61       125       0       16       45         102       WOBURN       MAPC       4       MISHAWUN ROAD       COMMERCE WAY       60       124       0       16       44         103       WORCESTER       CMRPC       3       HIGHLAND STREET       9       HARVARD STREET       67       123       0       14       53         103       SEEKONK       SRPEDD       5       FALL RIVER AVENUE       6       COMMERCE WAY       71       123       0       13       58         105       WORCESTER       CMRPC       3       HARDING STREET       122       HARNISON STREET       46       122       0       16       42         105       WORCESTER       CMRPC       3       WORCESTER TAL STREET       20       VASHINGTON STREET       54       122       0       12       16       42         106       WORCESTER       CMRPC       4       WORCESTER STREET       20       WASHINGTON STREET       54       122       0       22       12       12       10       17       13       121       0       12       16       11   |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 102       WOBURN       MAPC       4       MISHAWUM ROAD       COMMERCE WAY       60       124       0       16       44         103       WORCESTER       CMMPC       3       HIGHLAND STREET       9       HARVARD STREET       67       123       0       14       53         103       SEEKONK       SRPEDD       5       FALL RIVER AVENUE       6       COMMERCE WAY       71       123       0       13       56         105       FRAMINGHAM       MAPC       3       HARDING STREET       122       HARRISON STREET       46       122       0       16       42         105       FRAMINGHAM       MAPC       3       EAST CENTRAL STREET       122       HARRISON STREET       46       122       0       16       42         105       WORCESTER       CMRPC       3       EAST CENTRAL STREET       SUMMER STREET       54       122       0       17       37         105       WESTFIELD       PVPC       2       FRANKIN STREET       SUMMER STREET       54       122       0       21       16         105       WESTFIELD       PVPC       2       HARDINGON STREET       9       WELLESLEY FIRE STATION HEADQUARTERS (BY PROXIMITY) <td></td>  |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 103       WORCESTER       CMRPC       3       HIGHLAND STREET       9       HARVARD STREET       67       123       0       14       53         103       SEKKONK       SRPEDD       5       FALL INVER AVENUE       6       COMMERCE WAY       71       123       0       14       53         105       WORCESTER       CMRPC       3       HARDING STREET       122       HARRISON STREET       46       122       0       19       27         105       WORCESTER       CMMPC       3       EAST CENTRAL STREET       122       HARRISON STREET       46       122       0       16       42         105       WORCESTER       CMMPC       3       EAST CENTRAL STREET       20       WASHINGTON STREET       34       122       0       17       37         105       WELLESLEY       MAPC       6       WORCESTER STREET       9       WILLESLEY FIRE STATION HEADQUARTERS (BY PROXIMITY)       86       122       0       21       12       0       17       171       16         106       WELLESLEY       MAPC       4       CENTRAL STREET       9       WILLESLEY FIRE STATION HEADQUARTERS (BY PROXIMITY)       86       122       0       17       16   |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 103       SEEKONK       SPREDD       5       FALL RIVER AVENUE       6       COMMERCE WAY       71       123       0       13       58         105       WORCESTER       CMRPC       3       HARDING STREET       122       HARRISON STREET       46       122       0       16       42         105       FRAMINGHAM       MAPC       3       WORCESTER ROAD       9       CALDOR ROAD       58       122       0       16       42         105       WORCESTER       CMRPC       3       EAST CENTRAL STREET       SUMMER STREET       54       122       0       17       37         105       WESTFIELD       PVPC       2       FRANKLIN STREET       20       WASHINGTON STREET       34       122       0       21       12         105       WELESLEY       MAPC       6       WORCESTRE STREET       20       WASHINGTON STREET       37       121       0       10       77         110       HOLYOKE       PVPC       2       HOLYOKE STREET       MALD RIVE       81       121       0       10       71         110       LOWELL       NMCOG       4       FELSWAY EAST       MALDRIN       MAREN STREET       61  |      |            |        |                  |                                    | 9       |                             |          |               |              |               |    |       |
| 105         WORCESTER         CMRPC         3         HARDING STREET         122         HARRISON STREET         46         122         0         19         27           105         FRAMINGHAM         MAPC         3         WORCESTER ROAD         9         CALDOR ROAD         58         122         0         16         42           105         WORCESTER         CMRPC         3         EAST CENTRAL STREET         SUMMER STREET         54         122         0         17         37           105         WELESLEY         MAPC         6         WORCESTER STREET         9         WELLESLEY FIRE STATION HEADQUARTERS (BY PROXIMITY)         86         122         0         21         16           110         BROCKTON         OCPC         5         FOREST AVENUE         BOUVE AVENUE         37         121         0         21         16           110         LOWELE         PVPC         2         HOLYOKE STREET         MALD RIVE         81         121         0         15         46           110         LOWEL         NMCOG         4         CENTRAL STREET         WARL DRIVE         MAREN STREET         61         121         0         18         31           114 <td></td>   |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 105         FRAMINGHAM         MAPC         3         WORCESTER ROAD         9         CALDOR ROAD         58         122         0         16         42           105         WORCESTER         CMRPC         3         EAST CENTRAL STREET         SUMMER STREET         54         122         0         17         37           105         WESTFIELD         PVPC         2         FRANKLIN STREET         20         WASHINGTON STREET         34         122         0         22         0         27         37           105         WELLESLEY         MAPC         6         WORCESTRE STREET         9         WELLESLEY FIRE STATION HEADQUARTERS (BY PROXIMITY)         86         122         0         27         71           110         BROCKTON         OCPC         5         FOREST AVENUE         BOUVE AVENUE         37         121         0         10         71           110         HOLYOKE         PVPC         2         HOLYOKE STREET         MALDEN         MAT         4         121         0         10         71           110         MALDEN         MAPC         4         CENTRAL STREET         WARREN STREET         49         121         18         31   |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 105         WORCESTER         CMRPC         3         EAST CENTRAL STREET         SUMMER STREET         SUMMER STREET         54         122         0         17         37           105         WESTFIELD         PVPC         2         FRANKLIN STREET         20         WASHINGTON STREET         34         122         0         22         12           105         WELLESLEY         MAPC         6         WORCESTER STREET         9         WELLESLEY FIRE STATION HEADQUARTERS (BY PROXIMITY)         86         122         0         27         77           110         BROCKTON         OCPC         5         FOREST AUENUE         BOUVE AVENUE         37         121         0         21         16           110         HOLYOKE         PVPC         2         HOLYOKE STREET         MALDRIVE         81         121         0         15         46           110         LOWELL         NMCOG         4         CENTRAL STREET         WARRENT         HIGHLAND AVENUE         49         121         0         18         31           110         LOWELL         MAPC         4         MONTVALE AVENUE         WARRENT MARCON STREET         61         120         0         14         50 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>  |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 105         WESTFIELD         PVPC         2         FRANKLIN STREET         20         WASHINGTON STREET         34         122         0         22         12           105         WELLESLEY         MAPC         6         WORCESTER STREET         9         WELLESLEY FIRE STION HEADQUARTERS (BY PROXIMITY)         86         122         0         9         77           110         BROCKTON         OCPC         5         FOREST AVENUE         BOUVE AVENUE         37         121         0         10         71           110         HOLYOKE         PVPC         2         HOLYOKE STREET         MALL DRIVE         81         121         0         10         71           110         MADDEN         MAPC         4         CENTRAL STREET         MAREN STREET         61         121         0         18         31           114         WOBURN         MAPC         4         MONTVALE AVENUE         WASHINGTON STREET         64         120         0         14         50           114         BROCKTON         OCPC         5         CENTRE STREET         123         LYMAN STREET         36         120         0         17         35           114         BROCKTON  |      |            |        |                  |                                    | 3       |                             |          |               |              |               |    |       |
| 105         WELLESLEY         MAPC         6         WORCESTER STREET         9         WELLESLEY FIRE STATION HEADQUARTERS (BY PROXIMITY)         86         122         0         9         77           110         BROCKTON         OCPC         5         FOREST AVENUE         BOUVE AVENUE         37         121         0         21         16           110         HOLYOKE         PVPC         2         HOLYOKE STREET         MALD RIVE         81         121         0         15         46           110         LOWELL         NMCOG         4         CENTRAL STREET         WARREN STREET         61         121         0         15         46           110         MADEN         MAPC         4         FELLSWAY EAST         HIGHJAND AVENUE         49         121         0         18         31           114         WOBURN         MAPC         4         MONTVALE AVENUE         WASREST         36         120         0         21         15           114         WOBURN         MAPC         4         MONTVALE AVENUE         WASREST         36         120         0         17         15           114         BROCKTON         OCPC         5         CENTRESTRET  |      |            |        |                  |                                    | 20      |                             |          |               |              |               |    |       |
| 110         BROCKTON         OCPC         5         FOREST AVENUE         BOUVE AVENUE         37         121         0         21         16           110         HOLYOKE         PVPC         2         HOLYOKE STREET         MALL DRIVE         81         121         0         10         71           110         LOWELL         NMCOG         4         CENTRAL STREET         WAREN STREET         61         121         0         15         46           110         MADEN         MAPC         4         FELLSWAY EAST         HIGHLAND AVENUE         49         121         0         18         31           114         WOBURN         MAPC         4         FELLSWAY EAST         HIGHLAND AVENUE         49         120         0         14         50           114         BROCKTON         OCPC         5         CENTRE STREET         123         LYMAN STREET         36         120         0         11         50           114         BROCKTON         OCPC         5         CENTRE STREET         123         LYMAN STREET         36         120         0         17         35           117         LINCOLN         MAPC         4         CAMBRIDGE TURNPIKE<   |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 110         HOLYOKE         PVPC         2         HOLYOKE STREET         MALL DRIVE         81         121         0         10         71           110         LOWELL         NMCOG         4         CENTRAL STREET         WARREN STREET         61         121         0         18         48           110         MALDEN         MAPC         4         CENTRAL STREET         HIGHLAND AVENUE         49         121         0         18         31           114         WOBURN         MAPC         4         MONTVALE AVENUE         WASHINGTON STREET         64         120         0         14         50           114         BROCKTON         OCPC         5         CENTRE STREET         123         LYMAN STREET         36         120         0         17         35           114         BROCKTON         OCPC         5         CENTREST         123         LYMAN STREET         36         120         0         17         35           114         MENDON         CMRPC         3         MILPOR DAD         16         MAIN STREET         52         120         0         17         35           117         LINCOLN         MAPC         4         CA  |      |            |        |                  |                                    | Я       |                             | L        |               |              |               |    |       |
| 110         LOWELL         NMCOG         4         CENTRAL STREET         WARREN STREET         61         121         0         15         46           110         MALDEN         MAPC         4         FELLSWAY EAST         HIGHLAND AVENUE         49         121         0         18         31           114         WOBURN         MAPC         4         FELLSWAY EAST         WASHINGTON STREET         64         120         0         14         50           114         BROCKTON         OCPC         5         CENTRE STREET         123         LYMAN STREET         36         120         0         21         15           114         BROCKTON         OCPC         5         CENTRE STREET         123         LYMAN STREET         36         120         0         17         15           114         BROCKTON         CMRPC         3         MILFORD ROAD         16         MAIN STREET         36         120         0         17         15           117         LINCOLN         MAPC         4         CAMBRIDGE TUNPIKE         2         BEDFORD ROAD         59         119         0         15         44           118         CHELSEA         MAPC  |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 110         MADEN         MAPC         4         FELLSWAY EAST         HIGHLAND AVENUE         49         121         0         18         31           114         WOBURN         MAPC         4         MONTVALE AVENUE         WASHINGTON STREET         64         120         0         14         50           114         BROCKTON         OCPC         5         CENTRE STREET         123         LYMAN STREET         36         120         0         17         15           114         MENDON         CMRPC         3         MILFORD ROAD         16         MAIN STREET         52         120         0         17         35           117         LINCOLN         MAPC         4         CAMBRIDGE TURNPIKE         2         BEDFORD ROAD         59         119         0         15         44           118         CHELSAA         MAPC         6         EVERETAVENUE         SPRUCE STREET         54         118         0         16         38           118         WORCESTER         CMRPC         3         BELMONT STREET         9         LAKE AVENUE NORTH         50         118         0         17         33           120         PLAINVILLE         SRPEDD   |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 114         WOBURN         MAPC         4         MONTVALE AVENUE         WASHINGTON STREET         64         120         0         14         50           114         BROCKTON         OCPC         5         CENTRE STREET         123         LYMAN STREET         36         120         0         21         15           114         MENDON         CMRPC         3         MILFORD ROAD         16         MAIN STREET         52         120         0         17         35           117         LINCOLN         MAPC         4         CAMBRIDGE TURNPIKE         2         BEDFORD ROAD         59         119         0         15         44           118         CHELSA         MAPC         6         EVERETT AVENUE         SPRUCE STREET         54         118         0         16         38           120         PLAINVILLE         SRPEDD         5         WASHINGTON STREET         9         LAKE AVENUE NORTH         50         117         0         17         32           120         PLAINVILLE         SRPEDD         5         WASHINGTON STREET         1         TAUNTON STREET         152         49         117         0         17         32 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>  |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 114         BROCKTON         OCPC         5         CENTRE STREET         123         LYMAN STREET         36         120         0         21         15           114         MENDON         CMRPC         3         MILFORD ROAD         16         MAIN STREET         52         120         0         17         15           117         LINCOLN         MAPC         4         CAMBRIDGE TURNPIKE         2         BEDFORD ROAD         59         119         0         15         44           118         CHELSEA         MAPC         6         EVERETT AVENUE         SPRUCE STREET         54         118         0         16         38           118         WORCESTER         CMRPC         3         BELMONT STREET         9         LAKE AVENUE NORTH         50         118         0         17         33           120         PLAINVILLE         SRREDD         5         WASHINGTON STREET         1         TAUNTON STREET         152         49         117         0         17         32           120         PLAINVILLE         SRREDD         5         WASHINGTON STREET         1         TAUNTON STREET         152         49         117         0         16         <   |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 114         MENDON         CMRPC         3         MILFORD ROAD         16         MAIN STREET         52         120         0         17         35           117         LINCOLN         MAPC         4         CAMBRIDE TURNPIKE         2         BEDFORD ROAD         59         119         0         15         44           118         CHELSEA         MAPC         6         EVERETT AVENUE         SPRUCE STREET         54         118         0         16         38           118         WORCESTER         CMRPC         3         BELMONT STREET         9         LAKE AVENUE NORTH         50         118         0         17         33           120         PLAINVILLE         SRPEDD         5         WASHINGTON STREET         1         TAUNTON STREET         152         49         117         0         17         32           120         MEDFORD         MAPC         4         MYST VALLEY PARKWAY         16         WINTHORY STREET         38         53         117         0         16         37           120         WORCESTER         CMRPC         3         LINCOLN STREET         70         COUNTRY CLUB BOULEVARD         53         117         0         16  | 114  | WOBURN     |        | 4                |                                    |         | WASHINGTON STREET           |          |               | 120          | 0             | 14 | 50    |
| 114         MENDON         CMRPC         3         MILFORD ROAD         16         MAIN STREET         52         120         0         17         35           117         LINCOLN         MAPC         4         CAMBROGE TURNPIKE         2         BEDFORD ROAD         59         119         0         15         44           118         CHELSEA         MAPC         6         EVERETT AVENUE         SPRUCE STREET         54         118         0         16         38           118         WORCESTER         CMRPC         3         BELMONT STREET         9         LAKE AVENUE NORTH         50         118         0         17         33           120         PLAINVILLE         SRPEDD         5         WASHINGTON STREET         1         TAUNTON STREET         152         49         117         0         17         32           120         MEDFORD         MAPC         4         MYST VALLEY PARKWAY         16         WINTHY CLUB BOULEVARD         33         117         0         16         37           120         WORCESTER         CMRPC         3         LINCOLN STREET         70         COUNTRY CLUB BOULEVARD         53         117         0         16         37  | 114  | BROCKTON   | OCPC   | 5                | CENTRE STREET                      | 123     | LYMAN STREET                |          |               | 120          | 0             | 21 | 15    |
| 117         LINCOLN         MAPC         4         CAMBRIDGE TURNPIKE         2         BEDFORD ROAD         59         119         0         15         44           118         CHELSEA         MAPC         6         EVERETAVENUE         SPRUCE STREET         54         118         0         16         38           118         WORCESTER         CMRPC         3         BELMONT STREET         9         LAKE AVENUE NORTH         50         118         0         17         33           120         PLAINVILLE         SRPEDD         5         WASHINGTON STREET         1         TAUNTON STREET         152         49         117         0         17         32           120         MEDFORD         MAPC         4         MYSTIC VALLEY PARKWAY         16         WINTHROP STREET         38         53         117         0         16         37           120         WORCESTER         CMRPC         3         LINCOLN STREET         70         COUNTRY CLUB BOULEVARD         53         117         0         16         37           120         CHELSA         MAPC         6         REVERE BACH PARKWAY         16         GARFIELD AVENUE         61         117         0         <  | 114  | MENDON     | CMRPC  | 3                |                                    | 16      |                             |          | 52            | 120          | 0             | 17 | 35    |
| 118         CHELSEA         MAPC         6         EVERENT AVENUE         SPRUCE STREET         54         118         0         16         38           118         WORCESTER         CMRPC         3         BELMONT STREET         9         LAKE AVENUE NORTH         50         118         0         17         33           120         PLAINVILLE         SRPEDD         5         WASHINGTON STREET         1         TAUNTON STREET         152         49         117         0         17         32           120         MEDFORD         MAPC         4         MYSCI VALLEY PARKWAY         16         WINTHROP STREET         38         53         117         0         16         37           120         WORCESTER         CMRPC         3         LINCOLN STREET         70         COUNTRY CLUB BOULEVARD         53         117         0         16         37           120         CHELSA         MAPC         6         REVERE BEACH PARKWAY         16         GARFIELD AVENUE         63         117         0         14         47  |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 118         WORCESTER         CMRPC         3         BELMONT STREET         9         LAKE AVENUE NORTH         50         118         0         17         33           120         PLAINVILLE         SRPEDD         5         WASHINGTON STREET         1         TAUNTON STREET         152         49         117         0         17         32           120         MEDFORD         MAPC         4         MYSTIC VALLEY PARKWAY         16         WINTHROP STREET         38         53         117         0         16         37           120         WORCESTER         CMRPC         3         LINCOLN STREET         70         COUNTRY CLUB BOULEVARD         53         117         0         16         37           120         CHELSEA         MAPC         6         REVERE BEACH PARKWAY         16         GARFIELD AVENUE         61         117         0         14         47   |      |            |        | 6                |                                    |         |                             |          |               |              |               |    |       |
| 120         PLAINVILLE         SRPEDD         5         WASHINGTON STREET         1         TAUNTON STREET         152         49         117         0         17         32           120         MEDFORD         MAPC         4         MYSTIC VALLEY PARKWAY         16         WINTHROP STREET         38         53         117         0         16         37           120         WORCESTER         CMRPC         3         LINCOLN STREET         70         COUNTRY CLUB BOULEVARD         53         117         0         16         37           120         CHELSEA         MAPC         6         REVERE BEACH PARKWAY         16         GARFIELD AVENUE         61         117         0         14         47   |      |            |        |                  |                                    | 9       |                             |          |               |              |               |    |       |
| 120         MEDFORD         MAPC         4         MYSTIC VALLEY PARKWAY         16         WINTHROP STREET         38         53         117         0         16         37           120         WORCESTER         CMRPC         3         LINCOLN STREET         70         COUNTRY CLUB BOULEVARD         53         117         0         16         37           120         CHELSEA         MAPC         6         REVERE BEACH PARKWAY         16         GARFIELD AVENUE         61         117         0         14         47   |      |            |        |                  |                                    |         |                             | 152      |               |              |               |    |       |
| 120         WORCESTER         CMRPC         3         LINCOLN STREET         70         COUNTRY CLUB BOULEVARD         53         117         0         16         37           120         CHELSEA         MAPC         6         REVERE BEACH PARKWAY         16         GARFIELD AVENUE         61         117         0         14         47   |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 120         CHELSEA         MAPC         6         REVERE BEACH PARKWAY         16         GARFIELD AVENUE         61         117         0         14         47   |      |            |        |                  |                                    |         |                             | 50       |               |              |               |    |       |
|   |      |            |        |                  |                                    |         |                             |          |               |              |               |    |       |
| 120 WORGESTER   CMRPC   3   MAIN STREET   9   PARK AVENUE   49   117   0   17   32  |      |            |        |                  |                                    |         |                             |          |               |              | ÷             |    |       |
|   | 120  | WORGESTER  | CMRPC  | 3                | MAINSIREE                          | у       | PARK AVENUE                 |          | 49            | 117          | U             | 1/ | 32    |

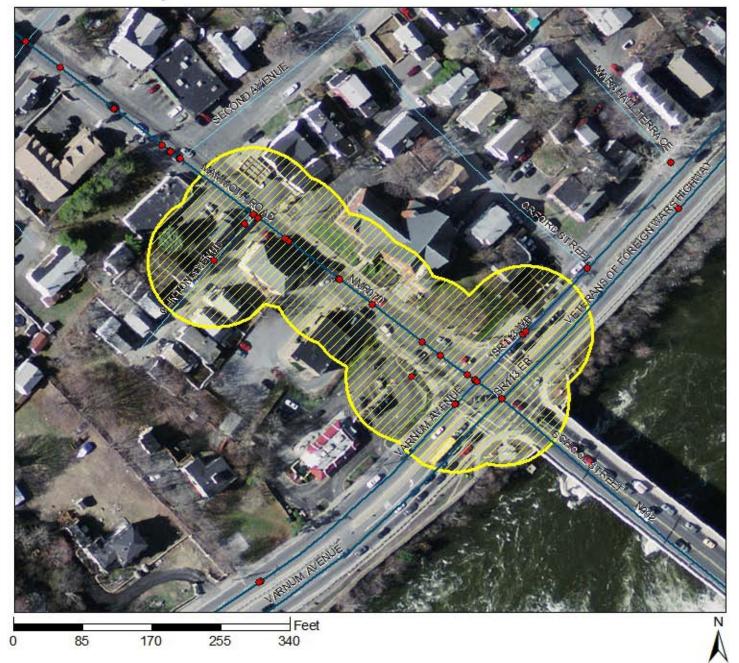
2007-2009 STATEWIDE TOP 200 INTERSECTION CRASH LIST

|            |                      |             |                  | 2007-2009 STATEWIDE TOP 200 | INTERS  | ECTION CRASH LIST           |         |               |              |               |                |                            |
|------------|----------------------|-------------|------------------|-----------------------------|---------|-----------------------------|---------|---------------|--------------|---------------|----------------|----------------------------|
| Rank       | Town                 | RPA         | MassDOT District | Street 1                    | Route 1 | Street 2                    | Route 2 | Total Crashes | EPDO Crashes | Fatal Crashes | Injury Crashes | PDO & Non Reported Crashes |
| 125        | SOMERVILLE           | MAPC        | 4                | SOMERVILLE AVENUE           |         | BOW STREET                  |         | 48            | 116          | 0             | 17             | 31                         |
| 125        | WORCESTER            | CMRPC       | 3                | CHANDLER STREET             | 122     | PIEDMONT STREET             |         | 40            | 116          | 0             | 19             | 21                         |
| 125        | FALL RIVER           | SRPEDD      | 5                | EASTERN AVENUE              | 6       | BEDFORD STREET              |         | 48            | 116          | 0             | 17             | 31                         |
| 128        | CHELSEA              | MAPC        | 6                | REVERE BEACH PARKWAY        | 16      | WASHINGTON AVENUE           |         | 63            | 115          | 0             | 13             | 50                         |
| 128        | MALDEN               | MAPC        | 4                | EASTERN AVENUE              | 60      | BROADWAY                    | 99      | 55            | 115          | 0             | 15             | 40                         |
| 128        | SALEM                | MAPC        | 4                | WASHINGTON STREET           |         | CANAL STREET                |         | 63            | 115          | 0             | 13             | 50                         |
| 128        | LOWELL               | NMCOG       | 4                | PAWTUCKET STREET            |         | SCHOOL STREET               |         | 59            | 115          | 0             | 14             | 45                         |
| 128        | BOSTON               | MAPC        | 6                | GALLIVAN BOULEVARD          | 203     | GRANITE AVENUE              |         | 43            | 115          | 0             | 18             | 25                         |
| 128        | WHITMAN              | OCPC        | 5                | BEDFORD STREET              | 18      | AUBURN STREET               | 14      | 51            | 115          | 0             | 16             | 35                         |
| 128        | ABINGTON             | OCPC        | 5                | CENTER AVENUE               | 123     | PLYMOUTH STREET             | 58      | 55            | 115          | 0             | 15             | 40                         |
| 135        | LOWELL               | NMCOG       | 4                | MERRIMACK STREET            |         | BRIDGE STREET               |         | 70            | 114          | 0             | 11             | 59                         |
| 135        | FALL RIVER           | SRPEDD      | 5                | CENTRAL STREET              |         | DAVOL STREET                |         | 46            | 114          | 0             | 17             | 29                         |
| 135        | WEYMOUTH             | MAPC        | 6                | WASHINGTON STREET           | 53      | BROAD STREET                |         | 50            | 114          | 0             | 16             | 34                         |
| 135        | MIDDLEBOROUGH        | SRPEDD      | 5                | SOUTH MAIN STREET           | 105     | EAST GROVE STREET           | 28      | 62            | 114          | 0             | 13             | 49                         |
| 139        | FALL RIVER           | SRPEDD      | 5                | BROADWAY                    | 138     | MIDDLE STREET               | 20      | 45            | 113          | 0             | 17             | 28                         |
| 139        | WEYMOUTH             | MAPC        | 6                | WASHINGTON STREET           | 53      | MAIN STREET                 | 18      | 61            | 113          | 0             | 13             | 48                         |
| 139        | PEMBROKE             | MAPC & OCPC | 5                | SCHOOSETT STREET            | 139     | COLUMBIA ROAD               | 53      | 45            | 113          | 0             | 17             | 28                         |
| 142        | WILBRAHAM            | PVPC        | 2                | BOSTON ROAD                 | 20      | STONY HILL ROAD             | 00      | 64            | 112          | 0             | 12             | 52                         |
| 142        | NEW BEDFORD          | SRPEDD      | 5                | JOHN F KENNEDY HIGHWAY      | 20      | UNION STREET                |         | 39            | 112          | 1             | 16             | 22                         |
| 142        | TAUNTON              | SRPEDD      | 5                | HON. GORDON M OWEN RIVERWAY |         | WILLIAMS STREET             |         | 36            | 112          | 0             | 19             | 17                         |
| 142        | WESTFIELD            | PVPC        | 2                | PLEASANT STREET             | 202     | WEST SILVER STREET          |         | 44            | 112          | 0             | 17             | 27                         |
| 142        | LOWELL               | NMCOG       | 4                | RIVERSIDE STREET            | 113     | UNIVERSITY AVENUE           |         | 44            | 112          | 0             | 16             | 32                         |
| 142        | BOSTON               | MAPC        | 6                | COLUMBIA ROAD               | 113     | DORCHESTER AVENUE           |         | 40            | 112          | 0             | 10             | 26                         |
|            |                      | MAPC        |                  |                             | 1       |                             | 27      |               |              | 0             | 17             |                            |
| 147<br>147 | WALPOLE<br>HAVERHILL | MVPC        | 5                | PROVIDENCE TURNPIKE         | 125     | HIGH PLAIN STREET           | 97      | 55            | 111          |               | 14             | 41                         |
|            |                      |             |                  | MAIN STREET                 | 125     | WINTER STREET               | 97      | 59            | 111          | 0             |                | 46                         |
| 147        | LOWELL               | NMCOG       | 4                | SCHOOL STREET               | 400     | BRANCH STREET               |         | 47            | 111          | 0             | 16             | 31                         |
| 147        | WILMINGTON           | MAPC        | 4                | LOWELL STREET               | 129     | WOBURN STREET               |         | 47            | 111          | 0             | 16             | 31                         |
| 147        | FRAMINGHAM           | MAPC        | 3                | WORCESTER ROAD              | 9       | DINSMORE AVENUE             |         | 43            | 111          | 0             | 17             | 26                         |
| 153        | TAUNTON              | SRPEDD      | 5                | MAIN STREET                 | 44      | CEDAR STREET                |         | 58            | 110          | 0             | 13             | 45                         |
| 153        | SALEM                | MAPC        | 4                | HIGHLAND AVENUE             | 107     | MARLBOROUGH ROAD            |         | 46            | 110          | 0             | 16             | 30                         |
| 153        | MEDFORD              | MAPC        | 4                | MAIN STREET                 |         | SALEM STREET                | 60      | 70            | 110          | 0             | 10             | 60                         |
| 153        | QUINCY               | MAPC        | 6                | HANCOCK STREET              |         | TEMPLE STREET               |         | 66            | 110          | 0             | 11             | 55                         |
| 153        | LYNN                 | MAPC        | 4                | ESSEX STREET                |         | CHATHAM STREET              |         | 54            | 110          | 0             | 14             | 40                         |
| 158        | HOLYOKE              | PVPC        | 2                | CHERRY STREET               | 202     | SOLDIERS HOME ROAD          |         | 36            | 109          | 1             | 16             | 19                         |
| 158        | LEXINGTON            | MAPC        | 4                | BEDFORD STREET              | 4       | HARRINGTON ROAD             |         | 53            | 109          | 0             | 14             | 39                         |
| 158        | CHARLTON             | CMRPC       | 3                | STURBRIDGE ROAD             | 20      | BROOKFIELD ROAD             | 31      | 57            | 109          | 0             | 13             | 44                         |
| 158        | DEDHAM               | MAPC        | 6                | BOSTON PROVIDENCE TURNPIKE  | 1A      | ELM STREET                  |         | 49            | 109          | 0             | 15             | 34                         |
| 158        | PITTSFIELD           | BRPC        | 1                | SOUTH STREET                | 7       | WEST HOUSATONIC STREET      | 20      | 61            | 109          | 0             | 12             | 49                         |
| 158        | LYNN                 | MAPC        | 4                | WESTERN AVENUE              | 107     | CHESTNUT STREET             | 129A    | 61            | 109          | 0             | 12             | 49                         |
| 158        | MANSFIELD            | SRPEDD      | 5                | CHAUNCY STREET              | 106     | NORTH MAIN STREET           |         | 53            | 109          | 0             | 14             | 39                         |
| 165        | QUINCY               | MAPC        | 6                | WASHINGTON STREET           | 3A      | SOUTHERN ARTERY             | 53      | 72            | 108          | 0             | 9              | 63                         |
| 165        | BROCKTON             | OCPC        | 5                | OAK STREET                  |         | CAMPANELLI INDUSTRIAL DRIVE | 400     | 36            | 108          | 0             | 18             | 18                         |
| 167        | BROCKTON             | OCPC        | 5                | WARREN AVENUE               | 400     | LEGION PARKWAY              | 123     | 43            | 107          | 0             | 16             | 27                         |
| 167        | BROCKTON             | OCPC        | 5                | CENTRE STREET               | 123     | PLYMOUTH STREET             |         | 35            | 107          | 0             | 18             | 17                         |
| 167        | LAWRENCE             | MVPC        | 4                | WINTHROP AVENUE             | 114     | SOUTH UNION STREET          |         | 39            | 107          | 0             | 17             | 22                         |
| 167        | WEYMOUTH             | MAPC        | 6                | MAIN STREET                 | 18      | WINTER STREET               |         | 51            | 107          | 0             | 14             | 37                         |
| 167        | WEST BRIDGEWATER     | OCPC        | 5                | WEST CENTER STREET          | 106     | NORTH MAIN STREET           | 28      | 47            | 107          | 0             | 15             | 32                         |
| 167        | PITTSFIELD           | BRPC        | 1                |                             |         | SEYMOUR STREET              |         | 43            | 107          | 0             | 16             | 27                         |
| 167        | RANDOLPH             | MAPC        | 6                | NORTH MAIN STREET           | 28      | WARREN STREET               | 139     | 67            | 107          | 0             | 10             | 57                         |
| 174        | LAWRENCE             | MVPC        | 4                | SOUTH BROADWAY              | 28      | ANDOVER STREET              |         | 50            | 106          | 0             | 14             | 36                         |
| 174        | EVERETT              | MAPC        | 4                | REVERE BEACH PARKWAY        | 16      | EVERETT AVENUE              |         | 46            | 106          | 0             | 15             | 31                         |
| 174        | REVERE               | MAPC        | 4                | REVERE BEACH PARKWAY        | 16      | WINTHROP AVENUE             |         | 46            | 106          | 0             | 15             | 31                         |
| 174        | BRAINTREE            | MAPC        | 6                | GRANITE STREET              | 37      | FRANKLIN STREET             |         | 38            | 106          | 0             | 17             | 21                         |
| 174        | FALL RIVER           | SRPEDD      | 5                | PRESIDENT AVENUE            | 6       | BOOMER STREET               |         | 46            | 106          | 0             | 15             | 31                         |
| 179        | BELLINGHAM           | MAPC        | 3                | HARTFORD AVENUE             | 126     | NORTH MAIN STREET           |         | 57            | 105          | 0             | 12             | 45                         |
| 179        | BROCKTON             | OCPC        | 5                | MAIN STREET                 |         | NILSSON STREET              |         | 33            | 105          | 0             | 18             | 15                         |
| 179        | WORCESTER            | CMRPC       | 3                | SOUTHWEST CUTOFF            | 20      | GREENWOOD STREET            |         | 53            | 105          | 0             | 13             | 40                         |
| 179        | HAVERHILL            | MVPC        | 4                | BRIDGE STREET               | 125     | WATER STREET                | 113     | 65            | 105          | 0             | 10             | 55                         |
| 179        | OXFORD               | CMRPC       | 3                | MAIN STREET                 | 12      | SUTTON AVENUE               |         | 61            | 105          | 0             | 11             | 50                         |
| 179        | LEXINGTON            | MAPC        | 4                | BEDFORD STREET              | 4       | HARTWELL AVENUE             |         | 45            | 105          | 0             | 15             | 30                         |
| 185        | SOMERVILLE           | MAPC        | 4                | BROADWAY                    |         | ALEWIFE BROOK PARKWAY       | 16      | 52            | 104          | 0             | 13             | 39                         |
| 185        | DARTMOUTH            | SRPEDD      | 5                | FAUNCE CORNER MALL ROAD     |         | CROSS ROAD                  |         | 48            | 104          | 0             | 14             | 34                         |
|            |                      |             |                  |                             |         |                             |         |               |              |               |                |                            |

| 2007-2009 STATEWIDE  | TOP 200 INTERSECTION CRASH LI | ST |
|----------------------|-------------------------------|----|
| 2007-2009 3171121000 | TOF 200 INTERGECTION CRASHEL  | 51 |

|      |              |        |                  | 2007-2009 STATEWIDE TOP 200 |         |                     |         |               |              |               |                |                            |
|------|--------------|--------|------------------|-----------------------------|---------|---------------------|---------|---------------|--------------|---------------|----------------|----------------------------|
| Rank | Town         | RPA    | MassDOT District | Street 1                    | Route 1 | Street 2            | Route 2 | Total Crashes | EPDO Crashes | Fatal Crashes | Injury Crashes | PDO & Non Reported Crashes |
| 185  | LOWELL       | NMCOG  | 4                | BROADWAY                    |         | FLETCHER STREET     |         | 52            | 104          | 0             | 13             | 39                         |
| 185  | ABINGTON     | OCPC   | 5                | BROCKTON AVENUE             | 123     | BEDFORD STREET      | 18      | 44            | 104          | 0             | 15             | 29                         |
| 185  | HOLYOKE      | PVPC   | 2                | LOWER WESTFIELD ROAD        |         | WHITING FARMS ROAD  |         | 52            | 104          | 0             | 13             | 39                         |
| 185  | LYNN         | MAPC   | 4                | CENTRAL AVENUE              |         | WASHINGTON STREET   |         | 56            | 104          | 0             | 12             | 44                         |
| 185  | BOSTON       | MAPC   | 6                | BLUE HILL AVENUE            | 28      | MORTON STREET       | 203     | 36            | 104          | 0             | 17             | 19                         |
| 185  | WESTBOROUGH  | CMRPC  | 3                | BOSTON WORCESTER TURNPIKE   | 9       | LYMAN STREET        |         | 64            | 104          | 0             | 10             | 54                         |
| 193  | WEYMOUTH     | MAPC   | 6                | UNION STREET                |         | PLEASANT STREET     |         | 71            | 103          | 0             | 8              | 63                         |
| 193  | WATERTOWN    | MAPC   | 6                | MAIN STREET                 | 20      | MOUNT AUBURN STREET | 16      | 55            | 103          | 0             | 12             | 43                         |
| 195  | RANDOLPH     | MAPC   | 6                | NORTH MAIN STREET           | 28      | UNION STREET        | 139     | 58            | 102          | 0             | 11             | 47                         |
| 195  | LYNN         | MAPC   | 4                | WESTERN AVENUE              | 107     | PARK STREET         |         | 46            | 102          | 0             | 14             | 32                         |
| 195  | WALTHAM      | MAPC   | 4                | LEXINGTON STREET            |         | TOTTEN POND ROAD    |         | 66            | 102          | 0             | 9              | 57                         |
| 195  | BROCKTON     | OCPC   | 5                | BELMONT STREET              | 123     | BELMONT AVENUE      |         | 29            | 102          | 1             | 16             | 12                         |
| 195  | LAWRENCE     | MVPC   | 4                | ANDOVER STREET              |         | PARKER STREET       | 114     | 41            | 102          | 1             | 13             | 27                         |
| 195  | WEYMOUTH     | MAPC   | 6                | PLEASANT STREET             |         | WASHINGTON STREET   | 53      | 62            | 102          | 0             | 10             | 52                         |
| 195  | BROCKTON     | OCPC   | 5                | NORTH MAIN STREET           |         | EAST ASHLAND STREET |         | 38            | 102          | 0             | 16             | 22                         |
| 195  | SOUTHBOROUGH | MAPC   | 3                | TURNPIKE ROAD               | 9       | OAK HILL ROAD       |         | 53            | 102          | 1             | 10             | 42                         |
| 195  | HOLYOKE      | PVPC   | 2                | WESTFIELD ROAD              | 202     | HOMESTEAD AVENUE    |         | 50            | 102          | 0             | 13             | 37                         |
| 195  | RAYNHAM      | SRPEDD | 5                | BROADWAY                    | 138     | CARVER STREET       |         | 42            | 102          | 0             | 15             | 27                         |
| 205  | MALDEN       | MAPC   | 4                | EASTERN AVENUE              | 60      | MAPLEWOOD STREET    |         | 41            | 101          | 0             | 15             | 26                         |
| 205  | HAVERHILL    | MVPC   | 4                | MAIN STREET                 | 97      | BAILEY BOULEVARD    |         | 53            | 101          | 0             | 12             | 41                         |
| 205  | STONEHAM     | MAPC   | 4                | MAIN STREET                 | 28      | NORTH BORDER ROAD   |         | 45            | 101          | 0             | 14             | 31                         |
| 205  | TAUNTON      | SRPEDD | 5                | COUNTY STREET               | 140     | HART STREET         |         | 45            | 101          | 0             | 14             | 31                         |

# Top Crash Intersections 2007-2009



## LOWELL

RANK 1

VETERANS OF FOREIGN WARS HIGHWAY VARNUM AVENUE

MassDOT District 4 RPA NMCOG EPDO 281 Number of Fatal Crashes 0 Number of Injury Crashes 36 Number of Non-Injury Crashes 101 Total Crashes 137

#### Legend

Crash Locations 2007-2009

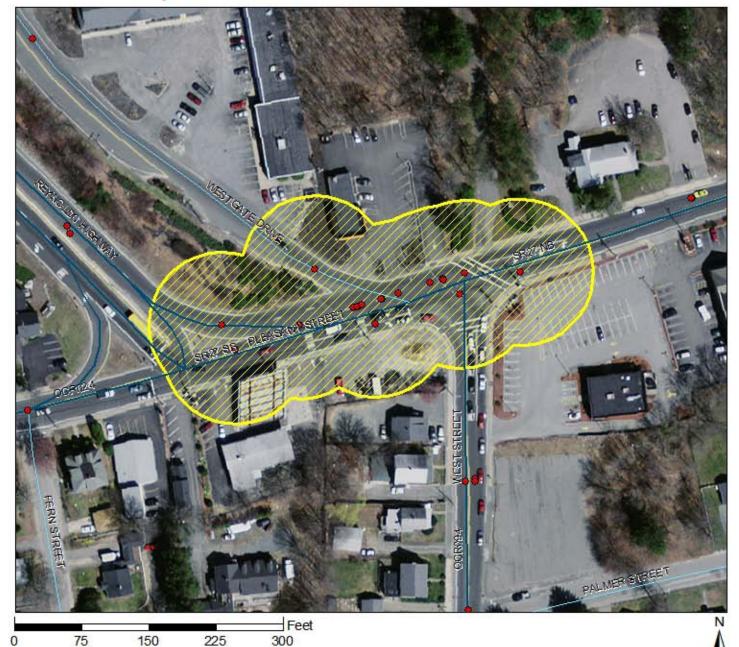
Local Roads

All Functional Classification Except Local Roads

> Top Crash Intersections



# Top Crash Intersections 2007-2009



BROCKTON

PLEASANT STREET ROUTE 27 WEST STREET

MassDOT District 5 RPA OCPC EPDO 242 Number of Fatal Crashes 0 Number of Injury Crashes 38 Number of Non-Injury Crashes 52 Total Crashes 90

## RANK 2

### Legend

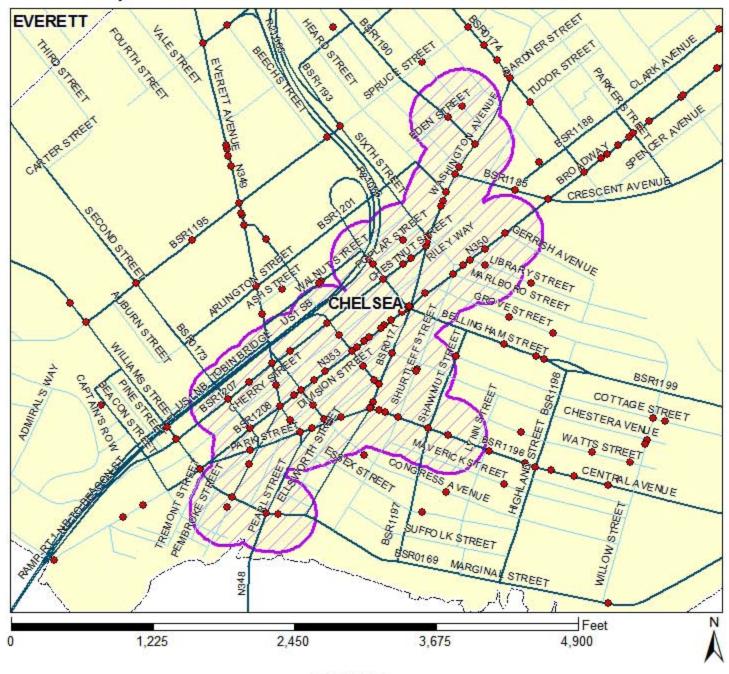
Crash Locations 2007-2009

Local Roads

All Functional Classification Except Local Roads

> Top Crash Intersections





RANK 1

### CHELSEA

RPA MAPC EPDO 518 Number of Fatal Pedestrian Crashes 1 Number of Injury Pedestrian Crashes 95 Number of Non-Injury Pedestrian Crashes 33 Total Pedestrian Crashes 129

### Legend

Pedestrian Crash Locations 2002-2009

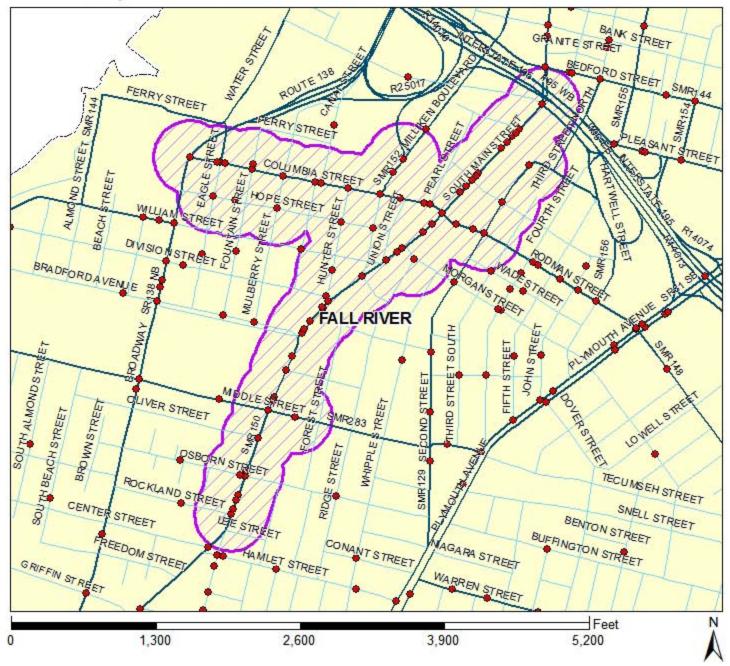
Local Roads

All Functional Classification Except Local Roads

Top Pedestrian Crash Cluster

Municipal Boundary





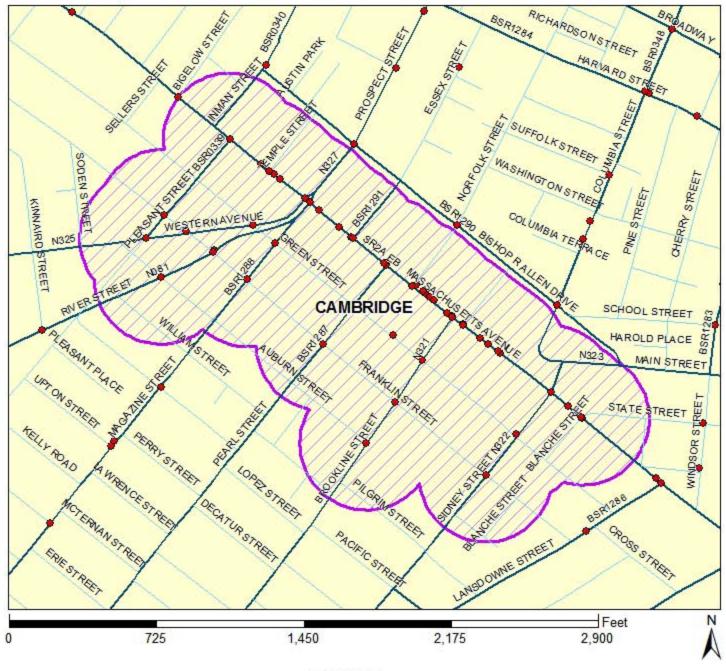
RANK 2

### FALL RIVER

RPA SRPEDD EPDO 346 Number of Fatal Pedestrian Crashes 0 Number of Injury Pedestrian Crashes 64 Number of Non-Injury Pedestrian Crashes 26 Total Pedestrian Crashes 90

- Pedestrian Crash Locations 2002-2009
- Local Roads
- All Functional Classification Except Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary





RANK 3

### CAMBRIDGE

RPA MAPC EPDO 284 Number of Fatal Pedestrian Crashes 2 Number of Injury Pedestrian Crashes 43 Number of Non-Injury Pedestrian Crashes 49 Total Pedestrian Crashes 94

#### Legend

Pedestrian Crash Locations 2002-2009

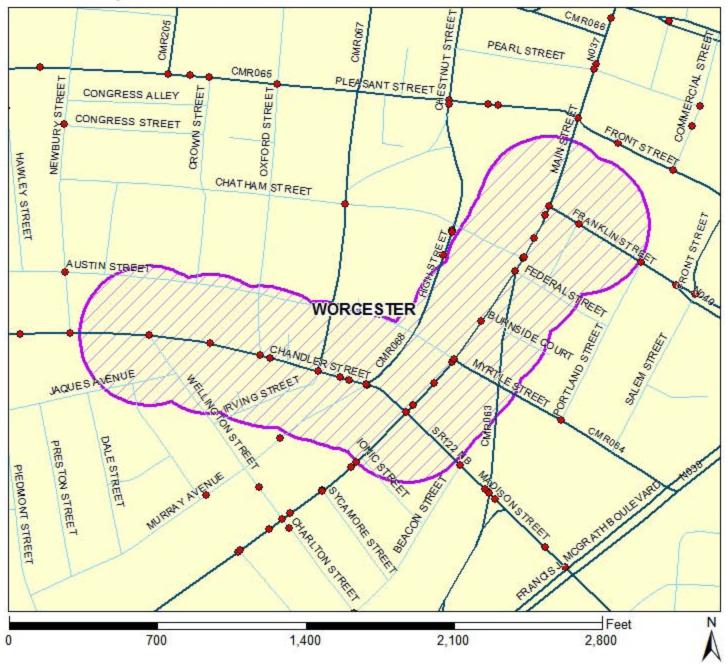
Local Roads

All Functional Classification Except Local Roads

Top Pedestrian Crash Cluster

Municipal Boundary





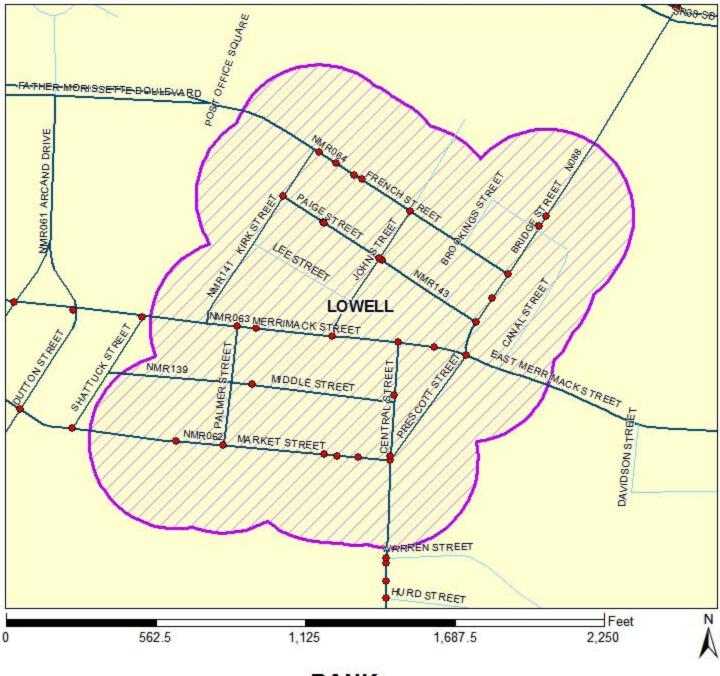
RANK 4

### WORCESTER

RPA CMRPC EPDO 187 Number of Fatal Pedestrian Crashes 0 Number of Injury Pedestrian Crashes 36 Number of Non-Injury Pedestrian Crashes 7 Total Pedestrian Crashes 43

- Pedestrian Crash Locations 2002-2009
- Local Roads
- All Functional Classification Except Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary





RANK 5

### LOWELL

RPA NMCOG EPDO 179 Number of Fatal Pedestrian Crashes 0 Number of Injury Pedestrian Crashes 32 Number of Non-Injury Pedestrian Crashes 19 Total Pedestrian Crashes 51

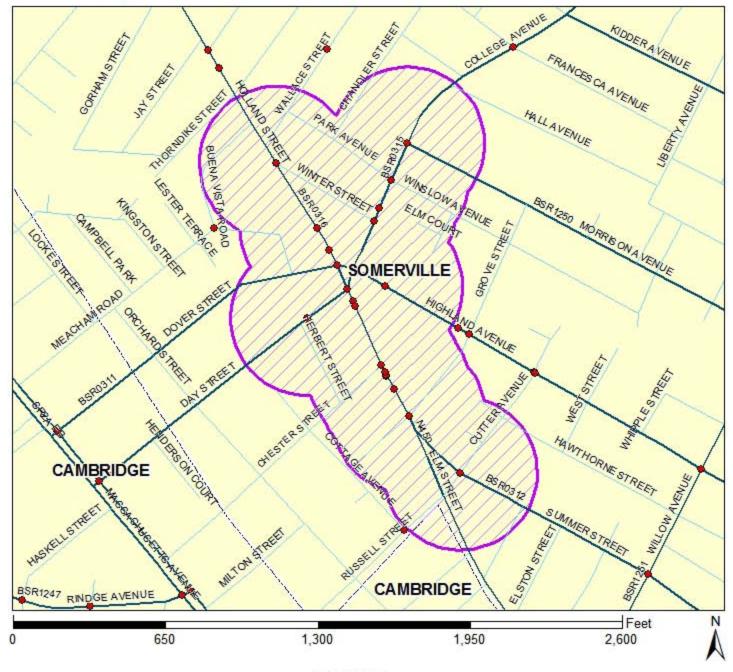
### Legend

Pedestrian Crash Locations 2002-2009

Local Roads

- All Functional Classification Except Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary





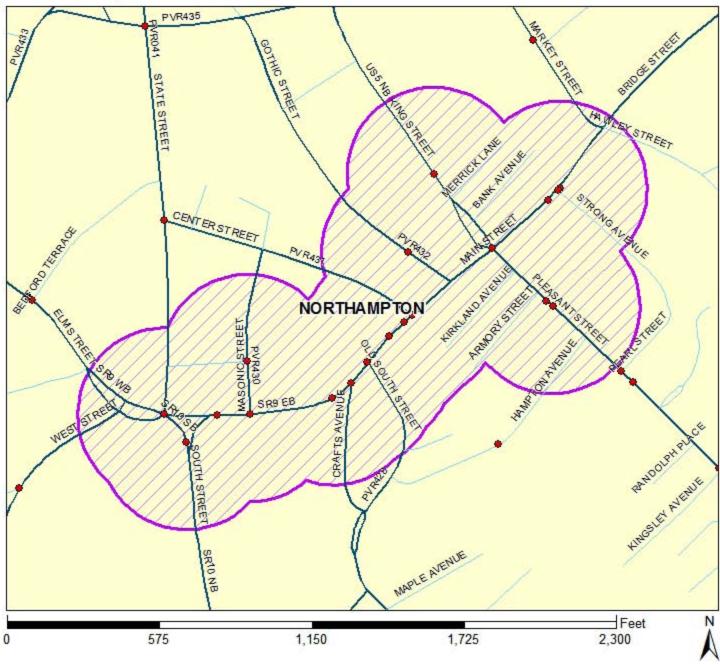
RANK 6

## SOMERVILLE,CAMBRIDGE

RPA MAPC EPDO 175 Number of Fatal Pedestrian Crashes 1 Number of Injury Pedestrian Crashes 32 Number of Non-Injury Pedestrian Crashes 5 Total Pedestrian Crashes 38

- Pedestrian Crash Locations 2002-2009
- Local Roads
- All Functional Classification Except Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary





RANK 7

### NORTHAMPTON

RPA PVPC EPDO 152 Number of Fatal Pedestrian Crashes 1 Number of Injury Pedestrian Crashes 28 Number of Non-Injury Pedestrian Crashes 2 Total Pedestrian Crashes 31

#### Legend

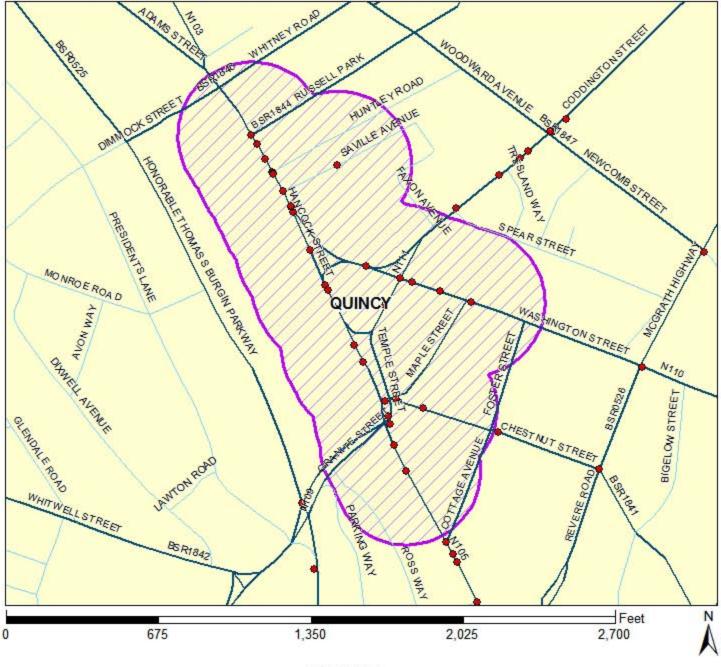
Pedestrian Crash Locations 2002-2009

V Local Roads

- All Functional Classification Except Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary



Top Pedestrian Crash Cluster 2002-2009



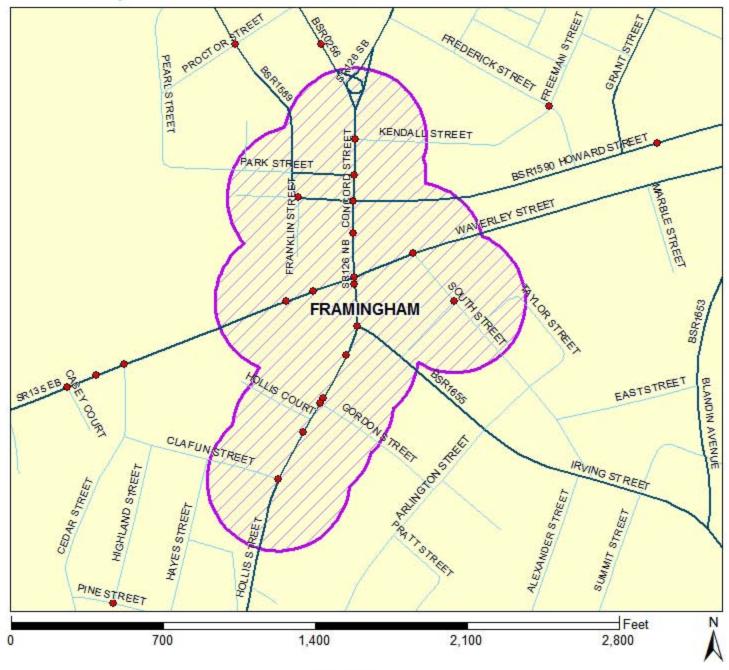
RANK 8

### QUINCY

RPA MAPC EPDO 150 Number of Fatal Pedestrian Crashes 0 Number of Injury Pedestrian Crashes 26 Number of Non-Injury Pedestrian Crashes 20 Total Pedestrian Crashes 46

- Pedestrian Crash Locations 2002-2009
- V Local Roads
- All Functional Classification Except Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary





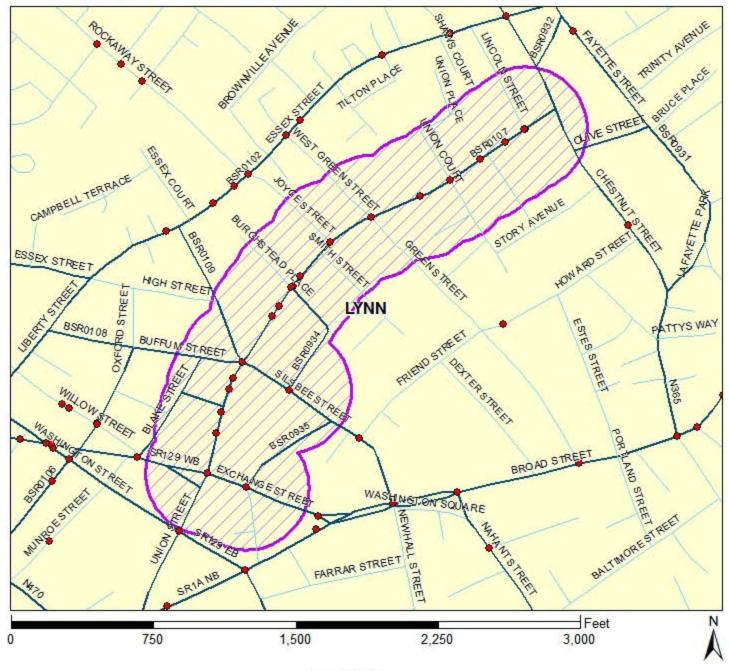
RANK 9

### FRAMINGHAM

RPA MAPC EPDO 144 Number of Fatal Pedestrian Crashes 0 Number of Injury Pedestrian Crashes 28 Number of Non-Injury Pedestrian Crashes 4 Total Pedestrian Crashes 32

- Pedestrian Crash Locations 2002-2009
- Local Roads
- All Functional Classification Except Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary





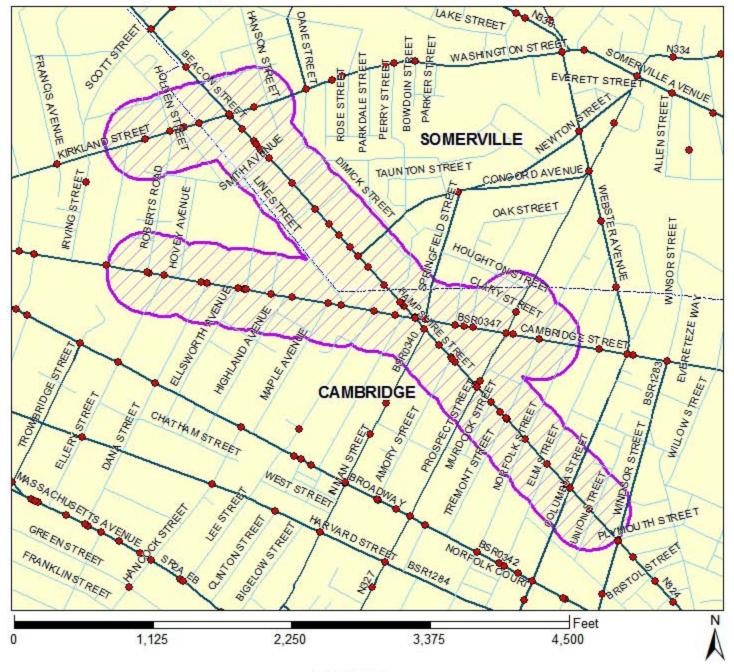
RANK 10

### LYNN

RPA MAPC EPDO 123 Number of Fatal Pedestrian Crashes 0 Number of Injury Pedestrian Crashes 23 Number of Non-Injury Pedestrian Crashes 8 Total Pedestrian Crashes 31

- Pedestrian Crash Locations 2002-2009
- V Local Roads
- All Functional Classification Except Local Roads
- Top Pedestrian Crash Cluster
- Municipal Boundary





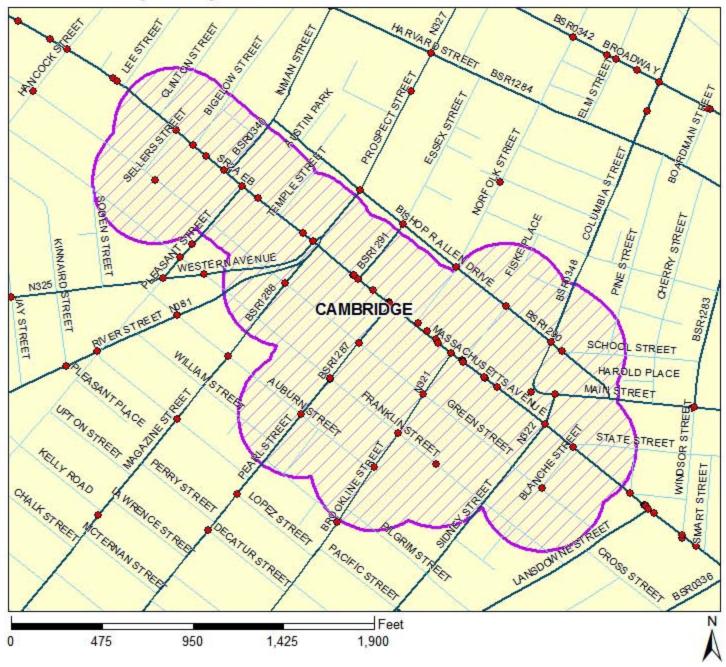
RANK 1

### CAMBRIDGE,SOMERVILLE

RPA MAPC EPDO 390 Number of Fatal Bicycle Crashes 0 Number of Injury Bicycle Crashes 71 Number of Non-Injury Bicycle Crashes 35 Total Bicycle Crashes 106

- Bicycle Crash Locations 2002-2009
- Local Roads
- All Functional Classification Except Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary





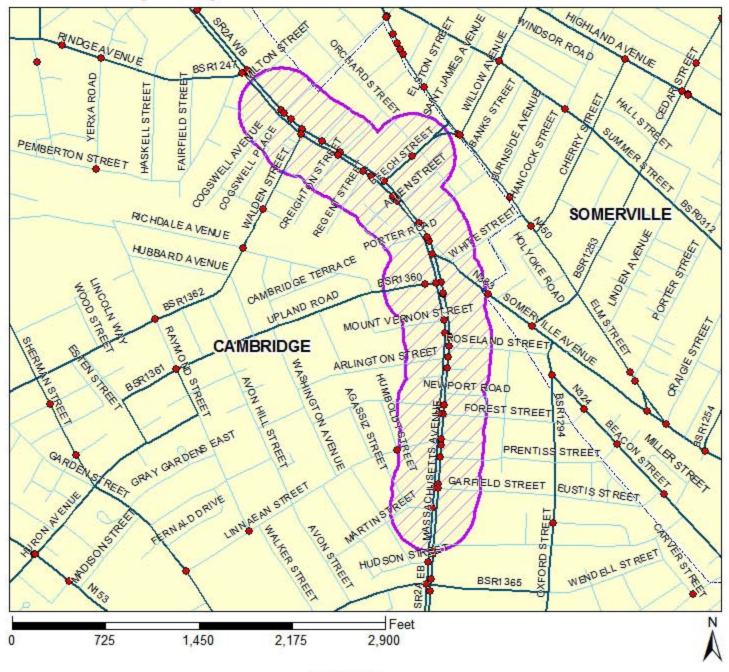


## CAMBRIDGE

RPA MAPC EPDO 276 Number of Fatal Bicycle Crashes 1 Number of Injury Bicycle Crashes 47 Number of Non-Injury Bicycle Crashes 31 Total Bicycle Crashes 79

- Bicycle Crash Locations 2002-2009
- Local Roads
- All Functional Classification Except Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary





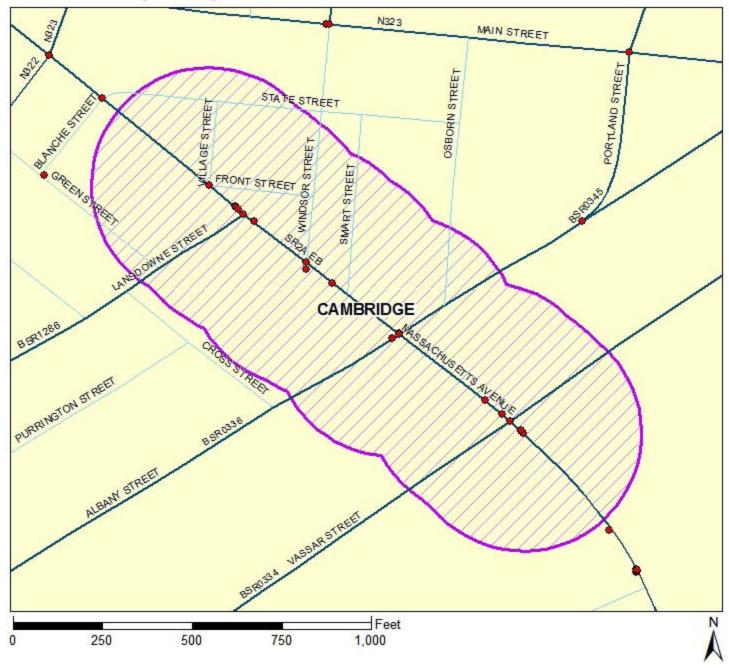
RANK 3

## CAMBRIDGE, SOMERVILLE

RPA MAPC EPDO 242 Number of Fatal Bicycle Crashes 0 Number of Injury Bicycle Crashes 45 Number of Non-Injury Bicycle Crashes 17 Total Bicycle Crashes 62

- Bicycle Crash Locations 2002-2009
- Local Roads
- All Functional Classification Except Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary





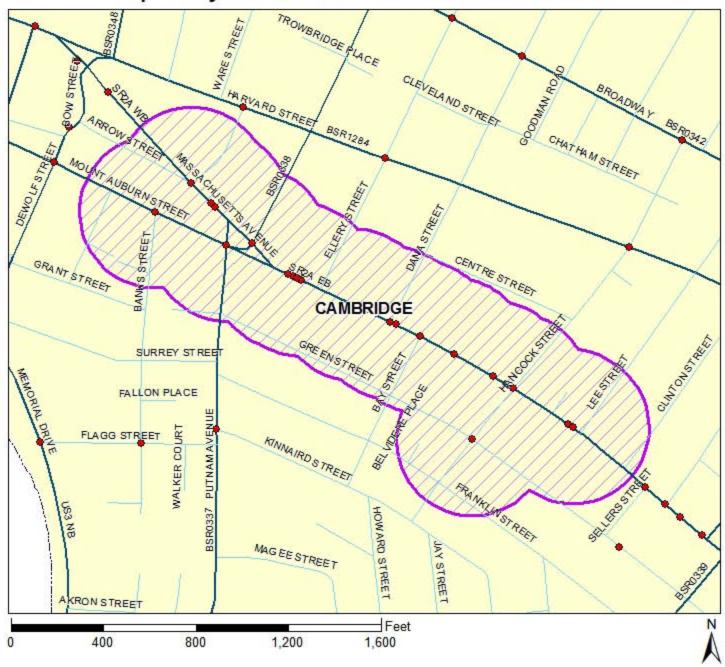
RANK 4

## CAMBRIDGE

RPA MAPC EPDO 157 Number of Fatal Bicycle Crashes 0 Number of Injury Bicycle Crashes 28 Number of Non-Injury Bicycle Crashes 17 Total Bicycle Crashes 45

- Bicycle Crash Locations 2002-2009
- V Local Roads
- All Functional Classification Except Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary





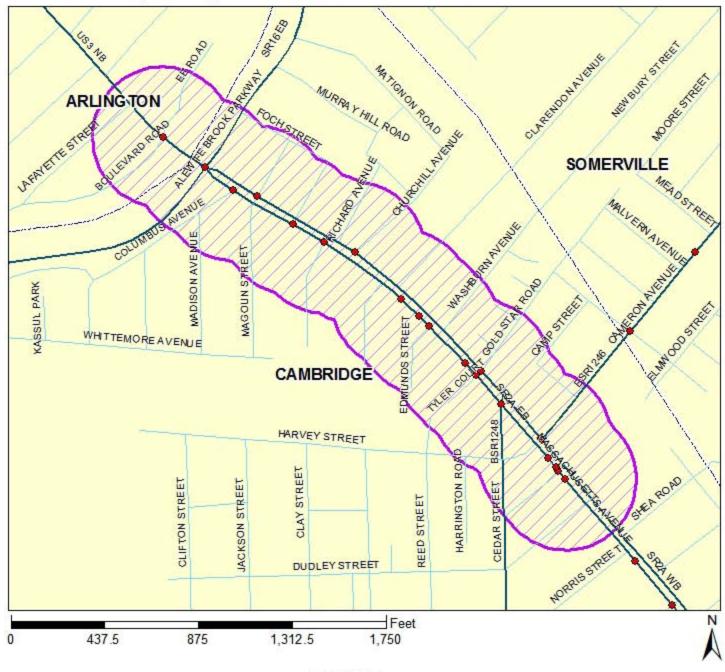
RANK 5

### CAMBRIDGE

RPA MAPC EPDO 110 Number of Fatal Bicycle Crashes 0 Number of Injury Bicycle Crashes 20 Number of Non-Injury Bicycle Crashes 10 Total Bicycle Crashes 30

- Bicycle Crash Locations 2002-2009
- Local Roads
- All Functional Classification Except Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary





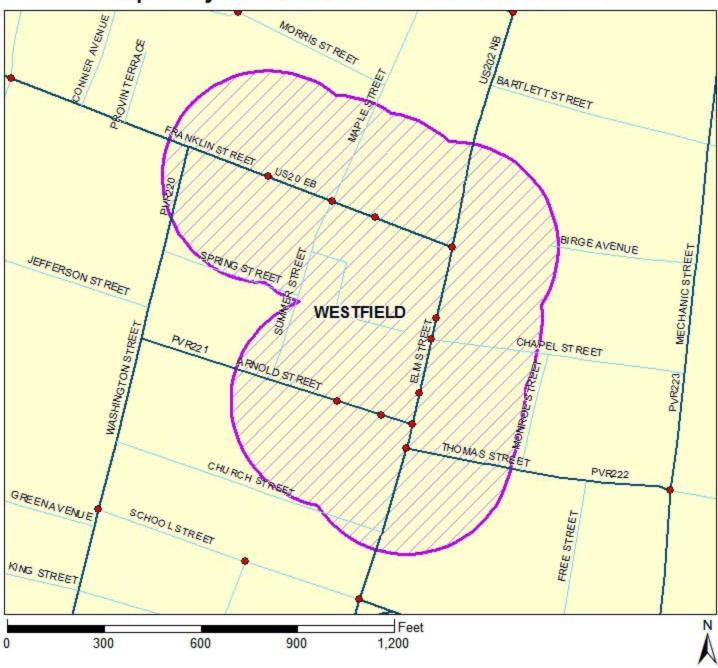
RANK 6

## CAMBRIDGE, ARLINGTON

RPA MAPC EPDO 108 Number of Fatal Bicycle Crashes 0 Number of Injury Bicycle Crashes 20 Number of Non-Injury Bicycle Crashes 8 Total Bicycle Crashes 28

- Bicycle Crash Locations 2002-2009
- Local Roads
- All Functional Classification Except Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary





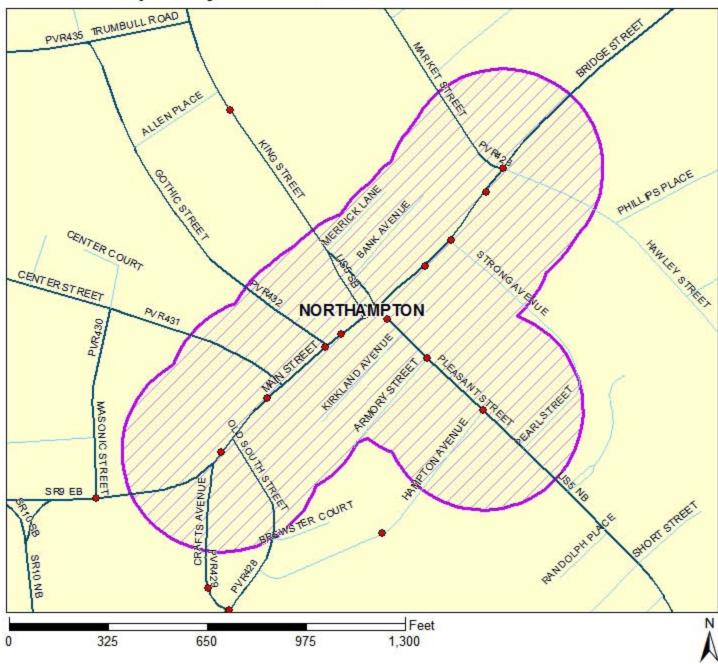
RANK 7

### WESTFIELD

RPA PVPC EPDO 78 Number of Fatal Bicycle Crashes 0 Number of Injury Bicycle Crashes 15 Number of Non-Injury Bicycle Crashes 3 Total Bicycle Crashes 18

- Bicycle Crash Locations 2002-2009
- Local Roads
- All Functional Classification Except Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary





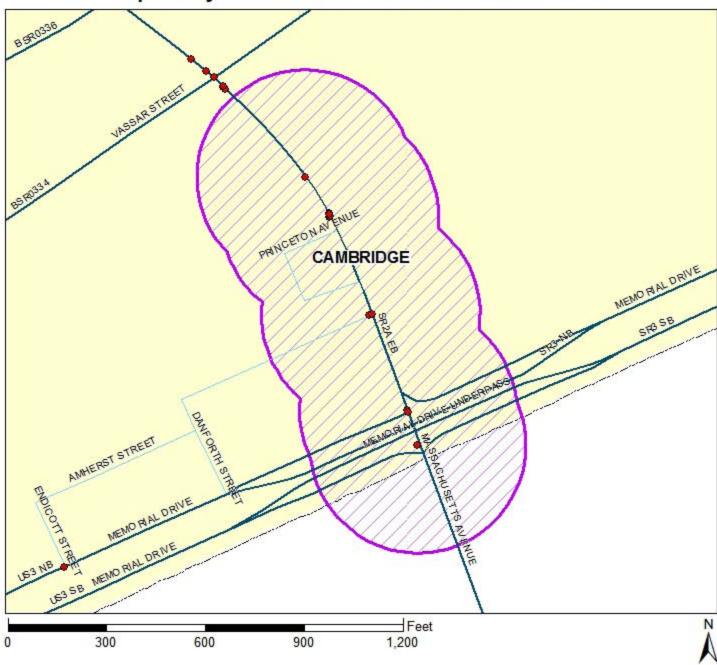
RANK 8

### NORTHAMPTON

RPA PVPC EPDO 77 Number of Fatal Bicycle Crashes 0 Number of Injury Bicycle Crashes 15 Number of Non-Injury Bicycle Crashes 2 Total Bicycle Crashes 17

- Bicycle Crash Locations 2002-2009
- Local Roads
- All Functional Classification Except Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary





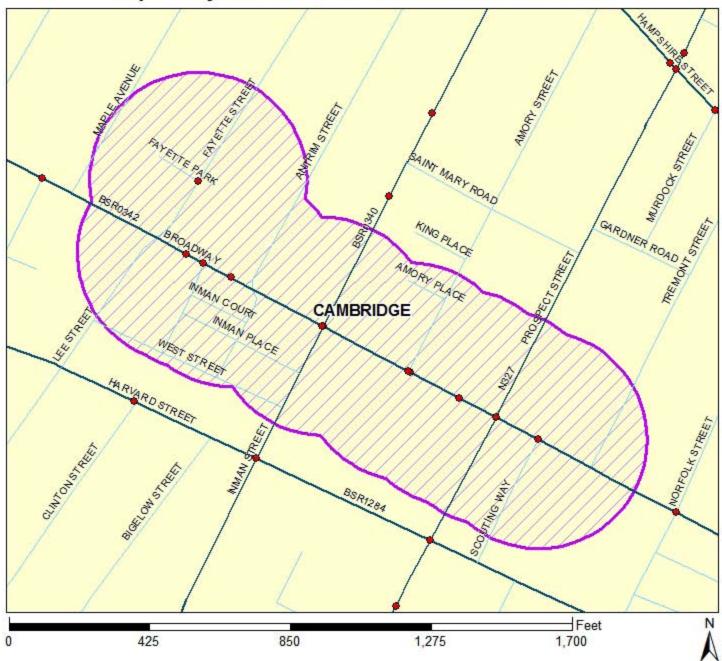
RANK 9

### CAMBRIDGE

RPA MAPC EPDO 67 Number of Fatal Bicycle Crashes 0 Number of Injury Bicycle Crashes 12 Number of Non-Injury Bicycle Crashes 7 Total Bicycle Crashes 19

- Bicycle Crash Locations 2002-2009
- Local Roads
- All Functional Classification Except Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary





RANK 10

### CAMBRIDGE

RPA MAPC EPDO 62 Number of Fatal Bicycle Crashes 0 Number of Injury Bicycle Crashes 10 Number of Non-Injury Bicycle Crashes 12 Total Bicycle Crashes 22

- Bicycle Crash Locations 2002-2009
- Local Roads
- All Functional Classification Except Local Roads
- Top Bicycle Crash Cluster
- Municipal Boundary

