

POSTED: FEBRUARY 2018

Massachusetts Department of Public Health

**MA Opioid-Related EMS Incidents 2013-September 2017**

# Enhancement of Opioid Overdose Surveillance

MATRIS, the Massachusetts Ambulance Trip Reporting Information System, is a statewide database for collecting emergency medical service (EMS) data from licensed ambulance services. It was not specifically designed to track opioid overdose incidents. DPH is currently working with all EMS providers to improve the quality and completeness of these data especially with respect to opioid overdose incidents. To more accurately identify ambulance trips that are opioid-related, several pieces of information from MATRIS are combined such as: a notation that a trip was listed as a poisoning, that there was an administration of naloxone, or that the patient admitted to drug use. In combination, this information allows DPH to more accurately count opioid overdose incidents. Data for Boston came from applying this algorithm to events identified by Boston EMS as “Narcotic Related Incidents” (NRI). Not all ambulance services have reported their most recent data at the time this report was generated, and therefore the numbers cited here may be underestimates. Counts will be updated on a quarterly basis. Beginning with the August 2017 report, incidents are only among people ages 11 and above.

# Results

Since 2013, there has been an increasing trend in the percentage of EMS incidents that are considered opioid- related (Figure 1) and the number of all EMS incidents involving naloxone administration (Figure 2). In the first nine months of 2017, the greatest number of suspected opioid-related overdoses treated by EMS is among males aged 25-34, accounting for 27% of opioid-related overdose incidents with a known age and gender.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **All Suspected Opioid Related Incidents: 2017 (Quarter 1)** | | | | | | | | |
|  | **11-14** | **15-24** | **25-34** | **35-44** | **45-54** | **55-64** | **65+** | **Total** |
| Male | <7 | 320 | 1258 | 620 | 409 | 250 | 102 | 2959 |
| Female | <7 | 210 | 566 | 288 | 210 | 143 | 73 | 1490 |
| Total | <7 | 530 | 1824 | 908 | 619 | 393 | 175 | 4449 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **All Suspected Opioid Related Incidents: 2017 (Quarter 2)** | | | | | | | | |
|  | **11-14** | **15-24** | **25-34** | **35-44** | **45-54** | **55-64** | **65+** | **Total** |
| Male | 0 | 365 | 1340 | 821 | 553 | 303 | 82 | 3464 |
| Female | 0 | 218 | 679 | 386 | 246 | 151 | 69 | 1749 |
| Total | 0 | 583 | 2019 | 1207 | 799 | 454 | 151 | 5213 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **All Suspected Opioid Related Incidents: 2017 (Quarter 3)** | | | | | | | | |
|  | **11-14** | **15-24** | **25-34** | **35-44** | **45-54** | **55-64** | **65+** | **Total** |
| Male | <7 | 429 | 1694 | 1058 | 682 | 350 | 128 | 4341 |
| Female | <7 | 233 | 766 | 513 | 270 | 172 | 76 | 2030 |
| Total | <7 | 662 | 2460 | 1571 | 952 | 522 | 204 | 6371 |

**Figure 1: Percent of Opioid-Related Overdoses**

**Among All EMS Incidents, MA: 2013-Q3 2017**

3.5

3

2.5

2

1.5

1

0.5

0

Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3

2013

2014

2015

**Year and Quarter**

2016

2017

**Figure 2: Count of All EMS Incidents Involving**

**Naloxone Administration, MA: 2013-Q3 2017**

6000

5000

4000

3000

2000

1000

0

Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3

2013

2014

2015

**Year and Quarter**

2016

2017

**Count**

**Percent**

Please note, counts in this table reflect the town in which the incident occurred (not the city/town of residence as shown in the table of deaths by city/town). † indicates no opioid overdose incidents were recorded, which may be due to non- reporting by EMS services or no incidents occurring.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **2015** | | | | | **2016** | | | | | **2017** | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 |
| Abington | \* | <7 | <7 | † | **10** | 12 | 9 | 12 | 9 | **42** | 14 | 9 | 10 |
| Acton | 9 | <7 | 7 | <7 | **25** | <7 | <7 | <7 | <7 | **21** | <7 | 7 | <7 |
| Acushnet | <7 | <7 | <7 | † | **<7** | † | <7 | <7 | <7 | **12** | 7 | 7 | <7 |
| Adams | † | † | † | † | **†** | † | † | † | † | **†** | <7 | <7 | <7 |
| Agawam | <7 | <7 | <7 | 21 | **30** | 18 | 8 | 16 | 12 | **54** | 9 | 10 | 13 |
| Alford | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Amesbury | <7 | 13 | \* | 8 | **33** | 16 | 24 | 13 | 16 | **69** | 11 | 15 | 14 |
| Amherst | <7 | <7 | <7 | 7 | **18** | 8 | <7 | <7 | <7 | **20** | 8 | <7 | <7 |
| Andover | <7 | 13 | <7 | <7 | **28** | <7 | <7 | 11 | 12 | **32** | 7 | 11 | 12 |
| Aquinnah | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Arlington | 16 | 16 | 34 | 21 | **87** | 18 | 16 | 16 | 8 | **58** | 11 | 14 | 19 |
| Ashburnham | † | † | † | † | **†** | <7 | <7 | <7 | † | **9** | <7 | <7 | † |
| Ashby | † | † | <7 | <7 | **<7** | <7 | † | <7 | <7 | **8** | † | <7 | <7 |
| Ashfield | † | † | † | <7 | **<7** | † | † | † | <7 | **<7** | † | † | † |
| Ashland | <7 | <7 | <7 | <7 | **9** | <7 | \* | 7 | 8 | **25** | <7 | 9 | 7 |
| Athol | <7 | \* | 9 | 14 | **36** | <7 | \* | 9 | 16 | **38** | 7 | 15 | 12 |
| Attleboro | 25 | 21 | 30 | 19 | **95** | 21 | 39 | 38 | 40 | **138** | 36 | 31 | 46 |
| Auburn | <7 | † | <7 | 8 | **13** | <7 | <7 | 11 | 7 | **27** | <7 | 11 | 7 |
| Avon | <7 | <7 | <7 | <7 | **15** | <7 | <7 | <7 | 7 | **20** | <7 | <7 | <7 |
| Ayer | † | <7 | <7 | † | **<7** | <7 | <7 | <7 | 7 | **18** | <7 | <7 | <7 |
| Barnstable | 94 | 57 | 64 | 52 | **267** | 44 | 54 | 62 | 59 | **219** | 63 | 48 | 86 |
| Barre | <7 | <7 | <7 | <7 | **8** | † | <7 | <7 | <7 | **8** | <7 | <7 | <7 |
| Becket | † | <7 | † | † | **<7** | † | <7 | † | † | **<7** | <7 | <7 | † |
| Bedford | <7 | <7 | <7 | <7 | **14** | <7 | 8 | 9 | <7 | **28** | <7 | 8 | 8 |
| Belchertown | <7 | † | † | <7 | **<7** | <7 | † | † | <7 | **<7** | <7 | † | <7 |
| Bellingham | 8 | <7 | 8 | \* | **26** | 7 | 11 | 11 | 13 | **42** | 11 | 14 | <7 |
| Belmont | <7 | 7 | <7 | <7 | **18** | 10 | 11 | \* | <7 | **33** | <7 | <7 | 12 |
| Berkley | <7 | † | <7 | † | **<7** | <7 | <7 | <7 | <7 | **11** | <7 | <7 | <7 |
| Berlin | <7 | † | <7 | <7 | **<7** | <7 | <7 | † | <7 | **7** | <7 | † | <7 |
| Bernardston | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Beverly | 21 | 27 | 34 | 22 | **104** | 24 | 31 | 24 | 31 | **110** | 25 | 35 | 23 |
| Billerica | <7 | 11 | \* | † | **26** | 19 | 12 | 30 | 13 | **74** | 20 | 15 | 42 |
| Blackstone | † | <7 | <7 | <7 | **8** | <7 | <7 | <7 | <7 | **7** | <7 | 9 | 12 |
| Blandford | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Bolton | <7 | <7 | † | <7 | **<7** | <7 | <7 | <7 | <7 | **7** | † | † | <7 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **2015** | | | | | **2016** | | | | | **2017** | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 |
| Boston | 525 | 489 | 529 | 489 | **2032** | 423 | 674 | 707 | 435 | **2239** | 356 | 493 | 691 |
| Bourne | <7 | <7 | 21 | 18 | **47** | 18 | 28 | 32 | 12 | **90** | 15 | 30 | 13 |
| Boxborough | † | † | <7 | † | **<7** | <7 | <7 | <7 | 7 | **18** | † | <7 | <7 |
| Boxford | <7 | <7 | <7 | <7 | **<7** | † | <7 | <7 | <7 | **7** | <7 | <7 | † |
| Boylston | † | † | <7 | <7 | **<7** | † | <7 | <7 | <7 | **9** | † | † | <7 |
| Braintree | 27 | 14 | 19 | 27 | **87** | 23 | 33 | 28 | 43 | **127** | 25 | 35 | 39 |
| Brewster | 7 | † | <7 | <7 | **15** | <7 | <7 | † | <7 | **<7** | † | 7 | <7 |
| Bridgewater | <7 | <7 | <7 | <7 | **7** | <7 | <7 | † | <7 | **9** | <7 | <7 | <7 |
| Brimfield | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Brockton | 231 | 192 | 91 | 180 | **694** | 191 | 261 | 256 | 180 | **888** | 186 | 164 | 253 |
| Brookfield | <7 | <7 | † | <7 | **<7** | † | <7 | † | <7 | **<7** | <7 | <7 | † |
| Brookline | 9 | 8 | <7 | \* | **30** | \* | 7 | <7 | 10 | **31** | 12 | 18 | 10 |
| Buckland | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Burlington | 10 | <7 | <7 | 7 | **24** | <7 | <7 | 14 | 11 | **33** | 9 | 13 | 21 |
| Cambridge | 57 | 74 | 79 | 74 | **284** | 93 | 162 | 128 | 94 | **477** | 81 | 92 | 107 |
| Canton | <7 | <7 | <7 | <7 | **12** | <7 | 13 | \* | 10 | **34** | 7 | 7 | 9 |
| Carlisle | † | † | † | † | **†** | † | † | † | † | **†** | † | † | <7 |
| Carver | <7 | <7 | <7 | 8 | **23** | 13 | 12 | 15 | 13 | **53** | 11 | 12 | 11 |
| Charlemont | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Charlton | † | † | † | † | **†** | <7 | † | † | <7 | **<7** | <7 | <7 | <7 |
| Chatham | <7 | <7 | <7 | <7 | **13** | <7 | <7 | <7 | <7 | **7** | <7 | <7 | <7 |
| Chelmsford | 8 | 14 | 22 | 9 | **53** | 19 | 17 | 11 | 10 | **57** | 19 | 12 | 13 |
| Chelsea | 35 | 71 | 87 | 73 | **266** | 59 | 73 | 84 | 42 | **258** | 49 | 83 | 91 |
| Cheshire | † | † | † | <7 | **<7** | <7 | † | <7 | <7 | **<7** | <7 | <7 | † |
| Chester | † | † | † | † | **†** | † | <7 | † | † | **<7** | <7 | † | <7 |
| Chesterfield | † | † | † | † | **†** | † | † | † | † | **†** | † | † | <7 |
| Chicopee | 37 | 70 | 50 | 79 | **236** | 78 | 61 | 49 | 54 | **242** | 46 | 55 | 66 |
| Chilmark | † | † | <7 | † | **<7** | <7 | † | <7 | † | **<7** | † | † | † |
| Clarksburg | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Clinton | 10 | 11 | 11 | 9 | **41** | <7 | 13 | \* | 28 | **55** | <7 | 12 | 14 |
| Cohasset | <7 | † | † | † | **<7** | † | † | <7 | <7 | **<7** | † | <7 | <7 |
| Colrain | † | <7 | † | † | **<7** | † | † | † | † | **†** | † | † | † |
| Concord | <7 | <7 | <7 | <7 | **17** | <7 | 7 | <7 | <7 | **18** | <7 | <7 | <7 |
| Conway | † | † | † | † | **†** | <7 | † | † | † | **<7** | † | † | † |
| Cummington | † | † | † | † | **†** | † | † | † | † | **†** | † | † | <7 |
| Dalton | <7 | <7 | † | <7 | **8** | <7 | <7 | <7 | <7 | **12** | <7 | † | <7 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **2015** | | | | | **2016** | | | | | **2017** | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 |
| Danvers | 40 | 20 | 43 | 34 | **137** | 30 | 45 | 39 | 22 | **136** | 30 | 41 | 36 |
| Dartmouth | 13 | 22 | 17 | 20 | **72** | 18 | 25 | 25 | 23 | **91** | 19 | 26 | 17 |
| Dedham | 15 | 12 | <7 | <7 | **38** | \* | 26 | 13 | <7 | **57** | 16 | 15 | 19 |
| Deerfield | <7 | <7 | <7 | † | **<7** | <7 | <7 | † | † | **<7** | † | <7 | † |
| Dennis | 14 | <7 | 8 | <7 | **34** | <7 | <7 | 9 | \* | **18** | 11 | 11 | 20 |
| Dighton | <7 | <7 | <7 | <7 | **9** | <7 | <7 | † | † | **7** | <7 | <7 | † |
| Douglas | <7 | † | <7 | † | **<7** | <7 | <7 | † | † | **<7** | † | † | † |
| Dover | † | <7 | † | † | **<7** | † | † | † | † | **†** | † | † | <7 |
| Dracut | 18 | 19 | 23 | 22 | **82** | 16 | 10 | 22 | 14 | **62** | 11 | 17 | 26 |
| Dudley | † | 10 | <7 | <7 | **13** | † | <7 | 9 | \* | **19** | <7 | 7 | <7 |
| Dunstable | † | † | <7 | † | **<7** | † | † | <7 | † | **<7** | <7 | † | <7 |
| Duxbury | <7 | <7 | <7 | <7 | **12** | <7 | <7 | <7 | <7 | **18** | <7 | <7 | <7 |
| East  Bridgewater | 20 | <7 | \* | 11 | **43** | <7 | 15 | 9 | \* | **37** | <7 | <7 | <7 |
| East Brookfield | † | <7 | † | <7 | **<7** | † | † | † | <7 | **<7** | † | † | † |
| East  Longmeadow | <7 | <7 | <7 | 8 | **18** | <7 | 8 | <7 | 9 | **23** | 7 | <7 | <7 |
| Eastham | <7 | <7 | <7 | † | **<7** | <7 | <7 | <7 | <7 | **9** | <7 | <7 | <7 |
| Easthampton | <7 | <7 | <7 | † | **<7** | † | † | <7 | † | **<7** | † | † | † |
| Easton | 7 | † | <7 | <7 | **13** | <7 | <7 | <7 | † | **9** | <7 | <7 | 7 |
| Edgartown | † | <7 | † | <7 | **<7** | <7 | <7 | <7 | <7 | **7** | <7 | <7 | † |
| Egremont | † | † | † | † | **†** | † | † | <7 | † | **<7** | † | † | † |
| Erving | <7 | † | † | <7 | **<7** | † | † | † | <7 | **<7** | <7 | † | † |
| Essex | <7 | † | <7 | † | **<7** | <7 | <7 | † | <7 | **<7** | <7 | <7 | <7 |
| Everett | 37 | 27 | 37 | 28 | **129** | 36 | 57 | 49 | 41 | **183** | 39 | 43 | 49 |
| Fairhaven | 13 | 21 | 23 | 16 | **73** | 26 | 24 | 19 | 15 | **84** | 11 | 13 | 11 |
| Fall River | 26 | 73 | 157 | 185 | **441** | 151 | 156 | 299 | 228 | **834** | 195 | 169 | 246 |
| Falmouth | 32 | 33 | 18 | 13 | **96** | 23 | 55 | 46 | 45 | **169** | 40 | 48 | 28 |
| Fitchburg | 43 | 47 | 55 | 68 | **213** | 70 | 80 | 94 | 66 | **310** | 54 | 48 | 67 |
| Florida | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Foxborough | <7 | † | <7 | † | **7** | <7 | <7 | 12 | 16 | **34** | 11 | 7 | 9 |
| Framingham | 43 | 57 | 44 | 36 | **180** | 32 | 60 | 66 | 55 | **213** | 44 | 34 | 48 |
| Franklin | \* | <7 | 13 | 12 | **37** | <7 | 17 | 16 | <7 | **44** | 16 | 15 | 12 |
| Freetown | <7 | <7 | 9 | <7 | **19** | <7 | <7 | 7 | 8 | **24** | <7 | <7 | <7 |
| Gardner | 19 | 20 | 25 | 21 | **85** | 14 | 28 | 24 | 12 | **78** | 22 | 13 | 20 |
| Georgetown | <7 | <7 | <7 | <7 | **15** | <7 | <7 | <7 | <7 | **11** | <7 | <7 | † |
| Gill | † | † | † | † | **†** | <7 | <7 | † | <7 | **<7** | † | † | † |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **2015** | | | | | **2016** | | | | | **2017** | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 |
| Gloucester | 26 | 24 | 30 | 24 | **104** | 39 | 33 | 29 | 15 | **116** | 17 | 27 | 32 |
| Goshen | † | † | † | † | **†** | † | † | <7 | † | **<7** | † | † | † |
| Gosnold | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Grafton | <7 | 10 | 8 | <7 | **24** | <7 | <7 | <7 | <7 | **15** | <7 | 7 | 10 |
| Granby | <7 | <7 | <7 | <7 | **10** | <7 | <7 | <7 | <7 | **9** | <7 | † | <7 |
| Granville | † | <7 | <7 | † | **<7** | <7 | † | † | † | **<7** | † | † | † |
| Great  Barrington | <7 | † | † | <7 | **<7** | <7 | <7 | <7 | <7 | **12** | <7 | <7 | <7 |
| Greenfield | <7 | 8 | <7 | 13 | **32** | 10 | 8 | 23 | 9 | **50** | 11 | 15 | 20 |
| Groton | † | † | † | † | **†** | <7 | † | † | <7 | **<7** | † | <7 | † |
| Groveland | † | † | <7 | † | **<7** | <7 | <7 | <7 | <7 | **<7** | <7 | <7 | † |
| Hadley | <7 | <7 | <7 | 7 | **14** | 7 | <7 | <7 | <7 | **19** | <7 | <7 | <7 |
| Halifax | 16 | 9 | \* | <7 | **36** | 10 | 22 | <7 | \* | **45** | <7 | <7 | 7 |
| Hamilton | † | <7 | <7 | <7 | **<7** | <7 | <7 | † | † | **<7** | <7 | <7 | <7 |
| Hampden | <7 | <7 | † | † | **<7** | † | <7 | † | <7 | **<7** | <7 | <7 | <7 |
| Hancock | † | † | † | † | **†** | † | † | † | † | **†** | † | <7 | † |
| Hanover | 9 | <7 | <7 | <7 | **20** | <7 | <7 | <7 | <7 | **18** | <7 | <7 | <7 |
| Hanson | 14 | 14 | 9 | 8 | **45** | 8 | <7 | 9 | <7 | **28** | <7 | 9 | <7 |
| Hardwick | <7 | † | <7 | <7 | **<7** | <7 | † | † | <7 | **<7** | <7 | † | † |
| Harvard | † | <7 | † | † | **<7** | <7 | † | † | <7 | **<7** | <7 | † | † |
| Harwich | 10 | <7 | \* | 8 | **28** | <7 | 7 | <7 | <7 | **19** | 11 | <7 | 11 |
| Hatfield | <7 | † | <7 | † | **<7** | † | † | † | <7 | **<7** | † | <7 | <7 |
| Haverhill | 72 | 79 | 91 | 100 | **342** | 92 | 90 | 77 | 105 | **364** | 87 | 85 | 121 |
| Hawley | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Heath | † | <7 | † | <7 | **<7** | † | † | † | † | **†** | <7 | † | † |
| Hingham | <7 | <7 | <7 | <7 | **11** | <7 | <7 | <7 | 14 | **25** | <7 | <7 | <7 |
| Hinsdale | † | † | † | † | **†** | † | <7 | † | † | **<7** | † | † | † |
| Holbrook | 10 | <7 | 13 | <7 | **33** | 16 | 17 | 21 | 18 | **72** | 17 | 18 | 13 |
| Holden | <7 | <7 | <7 | <7 | **15** | <7 | <7 | <7 | <7 | **13** | <7 | <7 | <7 |
| Holland | † | † | † | † | **†** | † | † | † | † | **†** | † | † | <7 |
| Holliston | † | † | <7 | <7 | **<7** | † | † | † | † | **†** | <7 | <7 | <7 |
| Holyoke | 54 | 62 | 57 | 91 | **264** | 79 | 86 | 62 | 74 | **301** | 55 | 49 | 65 |
| Hopedale | <7 | <7 | <7 | <7 | **10** | † | † | † | <7 | **<7** | <7 | <7 | † |
| Hopkinton | <7 | <7 | <7 | <7 | **12** | <7 | <7 | <7 | † | **10** | <7 | <7 | <7 |
| Hubbardston | <7 | <7 | † | † | **<7** | † | <7 | <7 | † | **<7** | <7 | <7 | <7 |
| Hudson | <7 | 7 | 18 | \* | **37** | 11 | \* | 13 | <7 | **36** | <7 | <7 | 7 |
| Hull | <7 | † | <7 | † | **<7** | 11 | <7 | <7 | † | **18** | <7 | <7 | <7 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **2015** | | | | | **2016** | | | | | **2017** | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 |
| Huntington | † | † | † | <7 | **<7** | † | † | <7 | † | **<7** | † | † | <7 |
| Ipswich | <7 | <7 | <7 | <7 | **12** | 7 | <7 | <7 | <7 | **22** | 8 | 7 | <7 |
| Kingston | 10 | <7 | 8 | <7 | **26** | <7 | <7 | <7 | 9 | **20** | <7 | <7 | 9 |
| Lakeville | <7 | † | <7 | <7 | **10** | <7 | \* | 31 | 14 | **56** | 21 | 15 | 22 |
| Lancaster | <7 | <7 | <7 | <7 | **7** | <7 | <7 | <7 | <7 | **8** | † | <7 | <7 |
| Lanesborough | <7 | † | † | † | **<7** | † | † | † | <7 | **<7** | † | <7 | <7 |
| Lawrence | 136 | 87 | 112 | 98 | **433** | 197 | 100 | 170 | 179 | **646** | 150 | 178 | 242 |
| Lee | † | <7 | <7 | † | **<7** | <7 | <7 | <7 | <7 | **7** | <7 | <7 | <7 |
| Leicester | <7 | 8 | <7 | <7 | **21** | <7 | <7 | <7 | 10 | **25** | 9 | <7 | <7 |
| Lenox | <7 | † | <7 | <7 | **<7** | † | <7 | <7 | <7 | **<7** | <7 | <7 | <7 |
| Leominster | 23 | 41 | 57 | 40 | **161** | 50 | 67 | 113 | 63 | **293** | 68 | 56 | 70 |
| Leverett | † | † | † | † | **†** | † | † | † | † | **†** | <7 | † | † |
| Lexington | <7 | 8 | <7 | <7 | **17** | <7 | <7 | 8 | <7 | **16** | <7 | <7 | <7 |
| Leyden | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Lincoln | † | † | † | † | **†** | <7 | † | <7 | † | **<7** | † | <7 | <7 |
| Littleton | † | <7 | <7 | <7 | **<7** | <7 | <7 | <7 | <7 | **15** | <7 | <7 | <7 |
| Longmeadow | <7 | <7 | <7 | <7 | **16** | <7 | <7 | <7 | <7 | **13** | <7 | <7 | <7 |
| Lowell | 172 | 202 | 241 | 151 | **766** | 193 | 187 | 216 | 241 | **837** | 269 | 309 | 322 |
| Ludlow | 9 | 7 | 12 | 21 | **49** | 11 | 14 | <7 | \* | **44** | 10 | <7 | 13 |
| Lunenburg | <7 | 7 | 13 | <7 | **28** | <7 | 7 | 9 | <7 | **23** | <7 | † | <7 |
| Lynn | 53 | 91 | 63 | 76 | **283** | 97 | 113 | 137 | 123 | **470** | 117 | 147 | 172 |
| Lynnfield | <7 | <7 | <7 | <7 | **15** | <7 | <7 | <7 | <7 | **9** | <7 | <7 | <7 |
| Malden | 22 | 82 | 50 | 34 | **188** | 37 | 61 | 62 | 42 | **202** | 31 | 55 | 76 |
| Manchester | † | <7 | <7 | <7 | **<7** | † | <7 | <7 | † | **<7** | <7 | <7 | † |
| Mansfield | <7 | <7 | <7 | † | **7** | <7 | 9 | 10 | <7 | **28** | 7 | 9 | <7 |
| Marblehead | <7 | <7 | <7 | <7 | **13** | <7 | \* | 15 | 8 | **36** | 9 | <7 | <7 |
| Marion | <7 | <7 | <7 | <7 | **9** | <7 | <7 | <7 | <7 | **<7** | <7 | <7 | <7 |
| Marlborough | 12 | 17 | 14 | 10 | **53** | 21 | 13 | 19 | 13 | **66** | <7 | 9 | 16 |
| Marshfield | <7 | <7 | 10 | 8 | **30** | 8 | 16 | 12 | 7 | **43** | 8 | 7 | 12 |
| Mashpee | 14 | 11 | \* | <7 | **39** | <7 | 12 | 17 | \* | **42** | 16 | 8 | † |
| Mattapoisett | <7 | <7 | <7 | <7 | **12** | <7 | 7 | <7 | <7 | **13** | <7 | <7 | <7 |
| Maynard | 7 | <7 | <7 | <7 | **14** | <7 | <7 | <7 | <7 | **12** | 9 | 9 | <7 |
| Medfield | † | <7 | <7 | † | **<7** | <7 | <7 | <7 | <7 | **8** | <7 | <7 | <7 |
| Medford | 25 | 28 | 40 | 30 | **123** | 41 | 42 | 34 | 21 | **138** | 14 | 24 | 27 |
| Medway | <7 | † | <7 | <7 | **8** | <7 | <7 | <7 | 8 | **19** | 7 | 8 | 16 |
| Melrose | 7 | <7 | 13 | <7 | **29** | 16 | 17 | 17 | 9 | **59** | 7 | <7 | 15 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **2015** | | | | | **2016** | | | | | **2017** | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 |
| Mendon | † | † | † | † | **†** | † | † | † | <7 | **<7** | <7 | <7 | † |
| Merrimac | <7 | <7 | <7 | <7 | **15** | <7 | † | <7 | <7 | **<7** | <7 | <7 | 7 |
| Methuen | 72 | 27 | 31 | 54 | **184** | 47 | 53 | 62 | 51 | **213** | 24 | 34 | 42 |
| Middleborough | 22 | <7 | \* | 11 | **48** | \* | 20 | <7 | † | **35** | <7 | <7 | <7 |
| Middlefield | † | † | † | † | **†** | † | † | <7 | † | **<7** | † | <7 | † |
| Middleton | <7 | <7 | <7 | <7 | **<7** | <7 | <7 | <7 | † | **12** | <7 | <7 | <7 |
| Milford | <7 | <7 | 14 | 11 | **36** | <7 | 14 | 23 | \* | **56** | 13 | 23 | 12 |
| Millbury | 12 | 9 | 14 | 10 | **45** | 7 | 19 | 17 | 8 | **51** | 8 | 12 | 10 |
| Millis | † | † | <7 | † | **<7** | <7 | <7 | <7 | 8 | **18** | <7 | <7 | <7 |
| Millville | <7 | <7 | † | <7 | **<7** | <7 | <7 | † | <7 | **7** | † | † | <7 |
| Milton | <7 | \* | 13 | 7 | **32** | 7 | 12 | 9 | 8 | **36** | 9 | 9 | 9 |
| Monroe | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Monson | <7 | <7 | <7 | 7 | **11** | <7 | <7 | <7 | <7 | **12** | <7 | <7 | <7 |
| Montague | <7 | <7 | <7 | <7 | **16** | \* | 10 | 8 | <7 | **29** | <7 | <7 | 8 |
| Monterey | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Montgomery | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Mount  Washington | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Nahant | <7 | <7 | † | <7 | **7** | <7 | <7 | † | <7 | **<7** | † | <7 | <7 |
| Nantucket | <7 | <7 | † | <7 | **11** | <7 | <7 | 9 | <7 | **18** | <7 | <7 | <7 |
| Natick | <7 | <7 | 9 | 9 | **29** | <7 | 9 | \* | 10 | **33** | 7 | <7 | 8 |
| Needham | <7 | <7 | <7 | † | **9** | <7 | <7 | <7 | <7 | **15** | <7 | † | <7 |
| New Ashford | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| New Bedford | 151 | 177 | 211 | 147 | **686** | 116 | 153 | 221 | 216 | **706** | 118 | 199 | 229 |
| New Braintree | † | <7 | † | † | **<7** | † | † | † | <7 | **<7** | † | <7 | † |
| New  Marlborough | † | † | † | † | **†** | † | † | † | † | **†** | † | <7 | † |
| New Salem | † | † | † | <7 | **<7** | † | † | † | † | **†** | † | <7 | † |
| Newbury | <7 | <7 | † | † | **<7** | <7 | † | † | † | **<7** | † | † | † |
| Newburyport | <7 | <7 | <7 | <7 | **17** | <7 | 9 | <7 | 11 | **24** | <7 | <7 | 8 |
| Newton | <7 | 20 | \* | 9 | **42** | 11 | 13 | 15 | 16 | **55** | 17 | 16 | 15 |
| Norfolk | <7 | † | <7 | <7 | **7** | 7 | <7 | <7 | <7 | **18** | <7 | <7 | <7 |
| North Adams | <7 | \* | 9 | 13 | **34** | 11 | 27 | 22 | 14 | **74** | 9 | 9 | 17 |
| North Andover | 16 | 18 | 10 | 8 | **52** | 12 | 11 | 19 | 15 | **57** | 18 | 12 | 18 |
| North Attleboro | 11 | 15 | 8 | 15 | **49** | 13 | 21 | 18 | 16 | **68** | 11 | 25 | 21 |
| North  Brookfield | † | † | <7 | <7 | **<7** | † | † | <7 | <7 | **<7** | † | † | † |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **2015** | | | | | **2016** | | | | | **2017** | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 |
| North Reading | <7 | 8 | <7 | <7 | **15** | <7 | <7 | 9 | <7 | **21** | <7 | 9 | <7 |
| Northampton | <7 | 8 | 20 | <7 | **33** | 26 | \* | <7 | 22 | **71** | 26 | 20 | 16 |
| Northborough | <7 | † | <7 | <7 | **<7** | <7 | <7 | 10 | <7 | **23** | <7 | <7 | <7 |
| Northbridge | <7 | 7 | <7 | <7 | **22** | <7 | 7 | 7 | <7 | **22** | <7 | <7 | 9 |
| Northfield | † | † | † | † | **†** | † | † | † | † | **†** | † | † | <7 |
| Norton | <7 | † | † | † | **<7** | † | \* | <7 | 11 | **26** | 7 | <7 | 8 |
| Norwell | <7 | \* | 10 | † | **22** | <7 | 7 | <7 | <7 | **19** | <7 | 7 | <7 |
| Norwood | <7 | <7 | <7 | <7 | **8** | <7 | † | <7 | 11 | **18** | 13 | 13 | 15 |
| Oak Bluffs | <7 | <7 | <7 | <7 | **16** | <7 | <7 | <7 | <7 | **14** | <7 | † | † |
| Oakham | † | † | † | † | **†** | † | <7 | <7 | † | **<7** | <7 | † | <7 |
| Orange | † | † | <7 | <7 | **<7** | <7 | <7 | <7 | <7 | **10** | 8 | <7 | <7 |
| Orleans | † | † | † | † | **†** | † | † | † | † | **†** | <7 | <7 | <7 |
| Otis | † | † | † | † | **†** | † | † | † | † | **†** | † | † | <7 |
| Oxford | 10 | <7 | 12 | \* | **34** | <7 | 10 | 22 | <7 | **40** | 11 | 8 | <7 |
| Palmer | <7 | <7 | <7 | <7 | **15** | † | <7 | † | <7 | **<7** | <7 | <7 | † |
| Paxton | <7 | † | <7 | † | **<7** | <7 | <7 | <7 | <7 | **<7** | <7 | <7 | <7 |
| Peabody | 38 | 26 | 30 | 26 | **120** | 34 | 44 | 42 | 43 | **163** | 34 | 37 | 51 |
| Pelham | † | † | <7 | † | **<7** | † | † | † | † | **†** | † | † | † |
| Pembroke | <7 | 12 | 12 | <7 | **34** | 9 | 9 | 8 | 17 | **43** | 12 | 8 | 7 |
| Pepperell | <7 | <7 | 9 | <7 | **23** | <7 | <7 | 9 | <7 | **20** | <7 | † | 7 |
| Peru | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Petersham | † | <7 | † | † | **<7** | † | <7 | † | <7 | **<7** | † | † | † |
| Phillipston | † | <7 | † | † | **<7** | † | † | <7 | † | **<7** | † | † | † |
| Pittsfield | 28 | 24 | 38 | 56 | **146** | 38 | 40 | 30 | 40 | **148** | 35 | 29 | 57 |
| Plainfield | † | † | † | † | **†** | † | † | † | † | **†** | † | <7 | <7 |
| Plainville | <7 | <7 | <7 | <7 | **21** | <7 | <7 | <7 | 11 | **23** | 7 | <7 | <7 |
| Plymouth | 57 | 47 | 35 | 47 | **186** | 38 | 60 | 49 | 43 | **190** | 50 | 58 | 69 |
| Plympton | <7 | <7 | <7 | † | **<7** | † | <7 | <7 | <7 | **<7** | <7 | <7 | † |
| Princeton | † | † | † | <7 | **<7** | † | † | † | † | **†** | † | <7 | <7 |
| Provincetown | † | \* | 7 | <7 | **15** | <7 | <7 | <7 | <7 | **11** | <7 | <7 | <7 |
| Quincy | 93 | 94 | 44 | 89 | **320** | 57 | 123 | 131 | 122 | **433** | 89 | 101 | 164 |
| Randolph | <7 | <7 | 19 | 7 | **34** | 30 | 30 | 16 | 24 | **100** | 20 | 13 | 21 |
| Raynham | 7 | <7 | 18 | <7 | **37** | <7 | <7 | 7 | 13 | **32** | <7 | 10 | 12 |
| Reading | <7 | <7 | <7 | <7 | **15** | <7 | <7 | 7 | 7 | **26** | <7 | <7 | <7 |
| Rehoboth | † | † | † | <7 | **<7** | † | † | † | † | **†** | <7 | <7 | <7 |
| Revere | 45 | 61 | 77 | 59 | **242** | 52 | 81 | 92 | 76 | **301** | 52 | 69 | 82 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **2015** | | | | | **2016** | | | | | **2017** | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 |
| Richmond | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Rochester | † | <7 | † | † | **<7** | <7 | <7 | <7 | <7 | **8** | <7 | † | <7 |
| Rockland | 12 | 9 | 21 | 13 | **55** | 42 | 28 | 24 | 22 | **116** | 17 | 19 | 23 |
| Rockport | <7 | † | <7 | † | **7** | † | † | <7 | <7 | **<7** | <7 | <7 | † |
| Rowe | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Rowley | † | <7 | † | <7 | **<7** | <7 | <7 | <7 | <7 | **8** | † | <7 | † |
| Royalston | † | <7 | <7 | <7 | **<7** | <7 | <7 | <7 | † | **<7** | <7 | † | † |
| Russell | † | <7 | <7 | † | **<7** | † | † | † | <7 | **<7** | † | <7 | † |
| Rutland | † | <7 | <7 | † | **<7** | † | <7 | <7 | <7 | **10** | <7 | <7 | <7 |
| Salem | 34 | 59 | 39 | 35 | **167** | 47 | 62 | 78 | 60 | **247** | 54 | 56 | 78 |
| Salisbury | 16 | 16 | 10 | 12 | **54** | 25 | 33 | 33 | 17 | **108** | 19 | 25 | 33 |
| Sandisfield | † | † | † | † | **†** | † | <7 | † | † | **<7** | <7 | † | † |
| Sandwich | † | † | <7 | † | **<7** | † | † | \* | <7 | **8** | <7 | † | † |
| Saugus | 29 | 25 | 26 | 16 | **96** | 26 | 37 | 38 | 28 | **129** | 25 | 31 | 32 |
| Savoy | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Scituate | <7 | <7 | 7 | <7 | **20** | <7 | <7 | 9 | <7 | **21** | <7 | <7 | <7 |
| Seekonk | <7 | <7 | <7 | 13 | **26** | <7 | 7 | 10 | <7 | **26** | <7 | 10 | 8 |
| Sharon | † | † | † | † | **†** | † | <7 | 8 | <7 | **12** | <7 | <7 | <7 |
| Sheffield | † | † | <7 | <7 | **<7** | <7 | † | <7 | † | **<7** | † | <7 | <7 |
| Shelburne | † | <7 | † | <7 | **<7** | <7 | † | † | <7 | **<7** | <7 | † | <7 |
| Sherborn | † | † | † | † | **†** | † | † | † | <7 | **<7** | † | † | † |
| Shirley | <7 | <7 | <7 | <7 | **9** | <7 | <7 | 9 | † | **13** | <7 | <7 | 7 |
| Shrewsbury | 12 | 8 | 12 | 18 | **50** | 10 | 19 | 11 | 11 | **51** | 7 | 16 | 13 |
| Shutesbury | <7 | † | † | † | **<7** | † | † | † | † | **†** | † | † | † |
| Somerset | <7 | 8 | 10 | <7 | **29** | 13 | 17 | 11 | 9 | **50** | 8 | 10 | 9 |
| Somerville | 17 | 42 | 38 | 45 | **142** | 39 | 52 | 56 | 50 | **197** | 27 | 39 | 43 |
| South Hadley | <7 | † | † | <7 | **<7** | † | <7 | † | <7 | **<7** | † | † | <7 |
| Southampton | † | <7 | <7 | <7 | **<7** | † | <7 | <7 | <7 | **<7** | <7 | <7 | † |
| Southborough | † | † | <7 | <7 | **<7** | <7 | <7 | <7 | <7 | **<7** | † | † | <7 |
| Southbridge | 13 | 13 | 10 | 15 | **51** | 11 | 26 | 22 | 37 | **96** | 8 | 14 | 20 |
| Southwick | <7 | <7 | <7 | <7 | **11** | 11 | 11 | \* | <7 | **34** | 8 | <7 | <7 |
| Spencer | <7 | † | <7 | <7 | **9** | <7 | <7 | <7 | <7 | **12** | <7 | <7 | 7 |
| Springfield | 114 | 163 | 165 | 260 | **702** | 212 | 227 | 183 | 206 | **828** | 126 | 187 | 244 |
| Sterling | <7 | † | <7 | <7 | **7** | <7 | <7 | <7 | <7 | **13** | <7 | <7 | <7 |
| Stockbridge | † | † | <7 | † | **<7** | † | † | † | † | **†** | <7 | † | † |
| Stoneham | 15 | 13 | 11 | 14 | **53** | <7 | 23 | \* | 12 | **52** | 9 | <7 | 18 |

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|  | **2015** | | | | | **2016** | | | | | **2017** | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 |
| Stoughton | 9 | 12 | 18 | 12 | **51** | 10 | 21 | 12 | 11 | **54** | 14 | 16 | 16 |
| Stow | <7 | † | <7 | <7 | **<7** | † | <7 | <7 | † | **<7** | <7 | <7 | <7 |
| Sturbridge | † | <7 | <7 | <7 | **<7** | <7 | 11 | <7 | <7 | **25** | <7 | <7 | <7 |
| Sudbury | <7 | <7 | <7 | † | **11** | † | <7 | † | <7 | **<7** | <7 | † | <7 |
| Sunderland | <7 | † | † | † | **<7** | <7 | <7 | <7 | <7 | **<7** | † | <7 | † |
| Sutton | <7 | <7 | <7 | <7 | **11** | <7 | <7 | <7 | <7 | **12** | <7 | <7 | <7 |
| Swampscott | <7 | <7 | <7 | <7 | **10** | <7 | 9 | <7 | <7 | **25** | <7 | <7 | <7 |
| Swansea | <7 | † | <7 | <7 | **9** | 8 | 13 | 13 | 15 | **49** | 10 | <7 | 17 |
| Taunton | 78 | 77 | 84 | 76 | **315** | 75 | 117 | 73 | 59 | **324** | 39 | 75 | 90 |
| Templeton | <7 | 10 | <7 | <7 | **21** | <7 | <7 | <7 | <7 | **13** | <7 | <7 | <7 |
| Tewksbury | <7 | <7 | 9 | 13 | **33** | 12 | 24 | 21 | 24 | **81** | 37 | 41 | 29 |
| Tisbury | <7 | <7 | † | <7 | **<7** | † | <7 | † | <7 | **<7** | <7 | <7 | † |
| Tolland | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Topsfield | <7 | <7 | <7 | <7 | **9** | † | † | <7 | † | **<7** | <7 | <7 | † |
| Townsend | 7 | <7 | <7 | <7 | **16** | <7 | <7 | <7 | <7 | **15** | <7 | <7 | † |
| Truro | <7 | † | † | † | **<7** | † | <7 | † | † | **<7** | † | † | † |
| Tyngsborough | † | <7 | † | <7 | **<7** | <7 | <7 | <7 | 7 | **19** | <7 | <7 | <7 |
| Tyringham | † | † | † | <7 | **<7** | † | † | † | † | **†** | † | † | † |
| Upton | † | <7 | <7 | † | **<7** | <7 | <7 | <7 | <7 | **<7** | † | <7 | <7 |
| Uxbridge | <7 | 10 | 10 | <7 | **31** | 9 | <7 | 11 | <7 | **29** | <7 | <7 | 7 |
| Wakefield | 13 | <7 | \* | 12 | **40** | 10 | 11 | 18 | 15 | **54** | 10 | 17 | 18 |
| Wales | † | † | † | † | **†** | † | † | † | † | **†** | † | † | <7 |
| Walpole | 13 | <7 | <7 | 9 | **32** | <7 | 10 | \* | 12 | **37** | 9 | 8 | 8 |
| Waltham | 27 | 39 | 25 | 32 | **123** | 38 | 36 | 40 | 30 | **144** | 20 | 35 | 45 |
| Ware | <7 | <7 | <7 | <7 | **12** | 9 | <7 | <7 | <7 | **23** | <7 | <7 | 11 |
| Wareham | 31 | 32 | 44 | 24 | **131** | 28 | 33 | 40 | 32 | **133** | 39 | 36 | 47 |
| Warren | <7 | † | <7 | <7 | **<7** | <7 | <7 | † | <7 | **9** | <7 | <7 | <7 |
| Warwick | † | † | † | † | **†** | † | † | † | † | **†** | † | <7 | † |
| Washington | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Watertown | 22 | 22 | 15 | 8 | **67** | 28 | 23 | 7 | 22 | **80** | <7 | 11 | 15 |
| Wayland | † | † | <7 | <7 | **<7** | † | <7 | <7 | <7 | **<7** | <7 | <7 | <7 |
| Webster | 20 | <7 | 13 | \* | **50** | 16 | 14 | 20 | 22 | **72** | 13 | 18 | 23 |
| Wellesley | <7 | <7 | <7 | <7 | **14** | <7 | <7 | <7 | <7 | **12** | <7 | <7 | <7 |
| Wellfleet | † | <7 | <7 | <7 | **<7** | <7 | <7 | <7 | <7 | **9** | † | <7 | <7 |
| Wendell | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| Wenham | † | † | † | <7 | **<7** | <7 | <7 | † | † | **<7** | <7 | † | <7 |

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|  | **2015** | | | | | **2016** | | | | | **2017** | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 |
| West Boylston | <7 | <7 | <7 | <7 | **11** | <7 | <7 | <7 | <7 | **12** | <7 | <7 | <7 |
| West  Bridgewater | <7 | <7 | 7 | <7 | **14** | 7 | <7 | <7 | † | **15** | <7 | <7 | <7 |
| West Brookfield | <7 | <7 | † | † | **<7** | † | † | † | † | **†** | <7 | <7 | <7 |
| West Newbury | <7 | † | † | † | **<7** | <7 | <7 | † | <7 | **<7** | † | † | <7 |
| West Springfield | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † |
| West  Stockbridge | <7 | † | † | † | **<7** | † | † | † | † | **†** | <7 | † | † |
| West Tisbury | <7 | <7 | <7 | † | **<7** | <7 | <7 | † | † | **<7** | † | <7 | <7 |
| Westborough | 10 | <7 | <7 | 9 | **29** | <7 | 13 | 13 | \* | **43** | 7 | 13 | <7 |
| Westfield | 10 | 15 | 12 | 34 | **71** | 28 | 15 | 16 | 21 | **80** | 11 | 14 | 15 |
| Westford | † | † | <7 | <7 | **<7** | 8 | <7 | <7 | <7 | **20** | <7 | 9 | <7 |
| Westhampton | † | <7 | <7 | 10 | **17** | \* | 7 | <7 | 7 | **27** | <7 | <7 | 10 |
| Westminster | <7 | <7 | <7 | † | **7** | <7 | <7 | † | <7 | **7** | <7 | <7 | <7 |
| Weston | <7 | <7 | <7 | † | **<7** | <7 | <7 | † | <7 | **<7** | 9 | <7 | <7 |
| Westport | <7 | <7 | <7 | <7 | **9** | <7 | 9 | <7 | 10 | **28** | 7 | 8 | <7 |
| Westwood | <7 | <7 | † | † | **<7** | <7 | <7 | <7 | <7 | **14** | <7 | <7 | <7 |
| Weymouth | 59 | 52 | 53 | 22 | **186** | 35 | 61 | 81 | 37 | **214** | 50 | 57 | 68 |
| Whately | † | <7 | † | † | **<7** | † | † | † | † | **†** | <7 | <7 | † |
| Whitman | † | <7 | 9 | <7 | **16** | 7 | 7 | 10 | 18 | **42** | 9 | <7 | 19 |
| Wilbraham | <7 | <7 | <7 | <7 | **13** | <7 | 7 | <7 | <7 | **17** | <7 | <7 | <7 |
| Williamsburg | † | † | † | † | **†** | † | <7 | † | † | **<7** | <7 | <7 | <7 |
| Williamstown | <7 | <7 | <7 | <7 | **11** | <7 | <7 | <7 | <7 | **9** | † | <7 | <7 |
| Wilmington | \* | 15 | 15 | <7 | **44** | 12 | \* | 9 | <7 | **33** | <7 | 9 | 8 |
| Winchendon | <7 | † | <7 | <7 | **<7** | <7 | <7 | <7 | <7 | **17** | † | <7 | <7 |
| Winchester | † | <7 | <7 | <7 | **<7** | <7 | <7 | <7 | 7 | **18** | <7 | † | <7 |
| Windsor | † | † | † | † | **†** | † | † | † | <7 | **<7** | † | † | † |
| Winthrop | <7 | 7 | <7 | 10 | **29** | 13 | 18 | 21 | 8 | **60** | <7 | 8 | 9 |
| Woburn | 32 | 23 | 14 | 22 | **91** | 42 | 38 | 36 | 28 | **144** | 43 | 36 | 45 |
| Worcester | 299 | 287 | 451 | 362 | **1399** | 327 | 396 | 480 | 408 | **1611** | 262 | 361 | 445 |
| Worthington | † | † | † | † | **†** | † | † | <7 | † | **<7** | † | † | † |
| Wrentham | <7 | † | <7 | <7 | **<7** | \* | 12 | 11 | <7 | **35** | <7 | <7 | <7 |
| Yarmouth | 35 | 20 | 11 | 21 | **87** | 15 | 31 | 20 | 26 | **92** | 16 | 29 | 35 |
| Unknown | 123 | 99 | 121 | 70 | **413** | 65 | 115 | 109 | 72 | **361** | 51 | 50 | 62 |
| **Grand Total** | **4201** | **4325** | **4788** | **4516** | **17830** | **4726** | **5940** | **6295** | **5348** | **22309** | **4501** | **5271** | **6463** |

\*Complementary suppression of the next smallest count was applied if only one count was < 7

# Technical Notes

Suspected opioid related incidents for all cities/towns except for Boston are identified using an algorithm that DPH developed with CDC using multiple fields in the MATRIS system. In Boston, this algorithm was applied to a subset of incidents that were reported in their internal “Narcotic Related Incidents” database. This data brief was supported by funds made available from the Centers for Disease Control and Prevention, Office for State, Tribal, Local and Territorial Support, under B01OT009024 and NU17CE924877. The findings of this data brief are those of the authors and do not necessarily represent the official position of or endorsement by the Centers for Disease Control and Prevention.