

POSTED: FEBRUARY 2020

Massachusetts Department of Public Health

**MA Opioid-Related EMS Incidents 2013-2019**

# 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. 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

The percentage of EMS incidents that are considered opioid-related (Figure 1) increased on average 7.8% per quarter from 2013 until 2016 and the number of all EMS incidents involving naloxone administration (Figure 2) increased on average 7.8% per quarter from 2013 through the third quarter of 2016. In 2016, both the proportion of EMS incidents that were opioid-related as well as the overall number of EMS incidents involving the administration of naloxone began slightly decreasing. This pattern also closely resembles the 2013-2019 trend in the confirmed and estimated opioid-related overdose death rate (see Opioid-Related Overdose Deaths among Massachusetts Residents, Figure 3). In the first nine months of 2019, the greatest number of suspected opioid-related incidents treated by EMS continued to be among males aged 25-34, accounting for 24% of opioid-related incidents with a known age and sex.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **All Suspected Opioid Related Incidents: 2019 (Quarter 1)** | | | | | | | | |
|  | **11-14** | **15-24** | **25-34** | **35-44** | **45-54** | **55-64** | **65+** | **Total** |
| Male | 0 | 222 | 1,253 | 894 | 612 | 392 | 114 | 3,487 |
| Female | (1-4) | 134 | 668 | 413 | 266 | 134 | 97 | 1,712 |
| Total | (1-4) | 356 | 1,921 | 1,307 | 878 | 526 | 211 | 5,199 |

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

**Among All EMS Incidents, MA: 2013-Q3 2019**

4

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 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3

2013 2014 2015

2016

**Year and Quarter**

2017

2018

2019

Opioid-Related EMS Incidents

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

**Naloxone Administration, MA: 2013-Q3 2019**

7000

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 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3

2013 2014 2015

2016

**Year and Quarter**

2017

2018

2019

Naloxone Administered EMS Incidents

**Count**

**Percent**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **All Suspected Opioid Related Incidents: 2019 (Quarter 2)** | | | | | | | | |
|  | **11-14** | **15-24** | **25-34** | **35-44** | **45-54** | **55-64** | **65+** | **Total** |
| Male | (1-4) | 253 | 1,380 | 1,083 | 700 | 413 | 149 | 3,978 |
| Female | 0 | 162 | 724 | 503 | 285 | 191 | 110 | 1,975 |
| Total | (1-4) | 415 | 2,104 | 1,586 | 985 | 604 | 259 | 5,953 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **All Suspected Opioid Related Incidents: 2019 (Quarter 3)** | | | | | | | | |
|  | **11-14** | **15-24** | **25-34** | **35-44** | **45-54** | **55-64** | **65+** | **Total** |
| Male | 0 | 234 | 1,302 | 1,028 | 685 | 395 | 133 | 3,777 |
| Female | 0 | 138 | 619 | 452 | 265 | 170 | 86 | 1,730 |
| Total | 0 | 372 | 1,921 | 1,480 | 950 | 565 | 219 | 5,507 |

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|  | **2017** | | | | | **2018** | | | | | **2019** | | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | **Total** |
| Abington | 14 | 9 | 11 | 10 | **44** | 7 | 9 | 5 | 8 | **29** | 8 | 9 | 9 | **26** |
| Acton | \* | 7 | (1-4) | 6 | **21** | 8 | † | (1-4) | (1-4) | **15** | (1-4) | (1-4) | (1-4) | **8** |
| Acushnet | 7 | 8 | 6 | 5 | **26** | 6 | (1-4) | (1-4) | (1-4) | **15** | † | \* | (1-4) | **7** |
| Adams | (1-4) | (1-4) | (1-4) | 11 | **18** | 11 | (1-4) | \* | 11 | **33** | 6 | (1-4) | (1-4) | **13** |
| Agawam | 10 | 10 | 13 | 15 | **48** | 26 | 27 | 22 | 13 | **88** | 14 | 28 | 12 | **54** |
| Alford | † | † | † | † | **†** | † | † | † | † | **†** | (1-4) | † | † | **(1-4)** |
| Amesbury | 13 | 15 | 14 | 13 | **55** | 9 | 7 | 13 | 6 | **35** | \* | 8 | (1-4) | **19** |
| Amherst | 11 | 8 | 10 | 7 | **36** | 11 | 7 | 7 | 12 | **37** | \* | 6 | (1-4) | **15** |
| Andover | 8 | 11 | 14 | 19 | **52** | 9 | 6 | 15 | 12 | **42** | 10 | 12 | 12 | **34** |
| Aquinnah | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| Arlington | 11 | 14 | 20 | 23 | **68** | (1-4) | 13 | 14 | \* | **37** | 12 | 9 | 7 | **28** |
| Ashburnham | (1-4) | (1-4) | † | (1-4) | **5** | (1-4) | † | (1-4) | † | **(1-4)** | 6 | (1-4) | (1-4) | **10** |
| Ashby | † | (1-4) | (1-4) | 5 | **13** | (1-4) | (1-4) | (1-4) | † | **7** | (1-4) | (1-4) | (1-4) | **8** |
| Ashfield | † | † | † | † | **†** | † | † | (1-4) | † | **(1-4)** | † | † | † | **†** |
| Ashland | 5 | 8 | 7 | 5 | **25** | (1-4) | (1-4) | 9 | (1-4) | **19** | (1-4) | (1-4) | (1-4) | **10** |
| Athol | 7 | 13 | 13 | 8 | **41** | 19 | 34 | 18 | 21 | **92** | 6 | 6 | 10 | **22** |
| Attleboro | 41 | 35 | 48 | 30 | **154** | 44 | 28 | 49 | 42 | **163** | 33 | 72 | 38 | **143** |
| Auburn | 6 | 11 | 7 | 7 | **31** | 8 | 16 | 7 | 5 | **36** | 8 | 8 | 5 | **21** |
| Avon | (1-4) | (1-4) | (1-4) | † | **8** | † | 5 | (1-4) | (1-4) | **12** | (1-4) | (1-4) | † | **(1-4)** |
| Ayer | (1-4) | (1-4) | (1-4) | (1-4) | **9** | \* | 8 | (1-4) | 6 | **22** | \* | 9 | (1-4) | **16** |
| Barnstable | 66 | 52 | 93 | 44 | **255** | 42 | 46 | 49 | 37 | **174** | 44 | 35 | 39 | **118** |
| Barre | 6 | (1-4) | 5 | (1-4) | **14** | 6 | (1-4) | 8 | (1-4) | **18** | 9 | \* | (1-4) | **18** |
| Becket | † | (1-4) | † | (1-4) | **(1-4)** | † | † | (1-4) | † | **(1-4)** | (1-4) | (1-4) | (1-4) | **(1-4)** |
| Bedford | \* | 9 | 8 | (1-4) | **24** | 7 | 8 | \* | (1-4) | **23** | (1-4) | 8 | \* | **19** |
| Belchertown | (1-4) | 6 | \* | 6 | **20** | 10 | 9 | \* | (1-4) | **30** | (1-4) | (1-4) | 5 | **10** |
| Bellingham | 11 | 16 | 6 | 13 | **46** | 9 | † | 5 | 7 | **21** | (1-4) | 9 | (1-4) | **15** |
| Belmont | (1-4) | 8 | 12 | \* | **29** | 8 | 9 | (1-4) | (1-4) | **23** | \* | 8 | (1-4) | **17** |
| Berkley | (1-4) | (1-4) | (1-4) | (1-4) | **9** | (1-4) | (1-4) | (1-4) | (1-4) | **9** | (1-4) | (1-4) | (1-4) | **8** |
| Berlin | (1-4) | † | (1-4) | † | **(1-4)** | (1-4) | † | (1-4) | † | **(1-4)** | † | † | (1-4) | **(1-4)** |
| Bernardston | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| Beverly | 28 | 37 | 26 | 24 | **115** | 23 | 22 | 33 | 25 | **103** | 18 | 32 | 22 | **72** |
| Billerica | 20 | 13 | 44 | 20 | **97** | 33 | 25 | 18 | 17 | **93** | 18 | 19 | 9 | **46** |
| Blackstone | (1-4) | 9 | 13 | \* | **31** | \* | 10 | (1-4) | 7 | **27** | (1-4) | 7 | (1-4) | **12** |
| Blandford | † | † | † | † | **†** | † | † | † | (1-4) | **(1-4)** | † | † | † | **†** |
| Bolton | (1-4) | † | (1-4) | † | **(1-4)** | (1-4) | † | (1-4) | † | **(1-4)** | † | † | (1-4) | **(1-4)** |
| Boston | 345 | 860 | 1,209 | 913 | **3,327** | 794 | 934 | 953 | 706 | **3,387** | 669 | 912 | 1,014 | **2,595** |
| Bourne | 15 | 33 | 20 | 22 | **90** | (1-4) | \* | 19 | 18 | **57** | 10 | 18 | 13 | **41** |

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|  | **2017** | | | | | **2018** | | | | | **2019** | | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | **Total** |
| Boxborough | † | (1-4) | (1-4) | (1-4) | **8** | † | † | † | (1-4) | **(1-4)** | (1-4) | † | † | **(1-4)** |
| Boxford | (1-4) | (1-4) | † | † | **(1-4)** | (1-4) | (1-4) | (1-4) | (1-4) | **5** | (1-4) | (1-4) | † | **(1-4)** |
| Boylston | † | † | (1-4) | † | **(1-4)** | † | (1-4) | † | † | **(1-4)** | † | (1-4) | † | **(1-4)** |
| Braintree | 25 | 34 | 40 | 29 | **128** | 26 | 36 | 26 | 16 | **104** | 23 | 15 | 19 | **57** |
| Brewster | † | 6 | (1-4) | (1-4) | **13** | (1-4) | (1-4) | 5 | (1-4) | **13** | (1-4) | (1-4) | (1-4) | **6** |
| Bridgewater | (1-4) | (1-4) | (1-4) | (1-4) | **7** | 13 | 24 | 25 | 17 | **79** | 9 | 9 | 12 | **30** |
| Brimfield | † | † | † | † | **†** | † | † | † | (1-4) | **(1-4)** | (1-4) | (1-4) | † | **(1-4)** |
| Brockton | 210 | 192 | 275 | 207 | **884** | 200 | 232 | 240 | 179 | **851** | 190 | 211 | 151 | **552** |
| Brookfield | (1-4) | (1-4) | (1-4) | (1-4) | **9** | † | (1-4) | (1-4) | (1-4) | **5** | (1-4) | † | (1-4) | **(1-4)** |
| Brookline | 13 | 20 | 14 | 13 | **60** | 10 | 11 | 13 | 11 | **45** | 14 | 13 | 8 | **35** |
| Buckland | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| Burlington | 10 | 15 | 21 | 15 | **61** | 9 | 10 | 15 | 13 | **47** | 11 | 9 | 6 | **26** |
| Cambridge | 102 | 94 | 110 | 75 | **381** | 71 | 99 | 86 | 97 | **353** | 82 | 71 | 117 | **270** |
| Canton | 9 | 9 | 8 | 14 | **40** | \* | 8 | 8 | (1-4) | **28** | \* | (1-4) | 8 | **18** |
| Carlisle | † | † | (1-4) | † | **(1-4)** | † | (1-4) | † | (1-4) | **6** | † | † | † | **†** |
| Carver | 10 | 13 | 8 | 11 | **42** | (1-4) | (1-4) | 12 | (1-4) | **21** | \* | 10 | (1-4) | **21** |
| Charlemont | † | † | † | † | **†** | (1-4) | † | † | (1-4) | **(1-4)** | † | (1-4) | † | **(1-4)** |
| Charlton | (1-4) | (1-4) | (1-4) | (1-4) | **11** | (1-4) | 5 | (1-4) | (1-4) | **13** | (1-4) | 5 | (1-4) | **9** |
| Chatham | 5 | (1-4) | (1-4) | (1-4) | **12** | (1-4) | (1-4) | (1-4) | (1-4) | **9** | † | (1-4) | (1-4) | **(1-4)** |
| Chelmsford | 22 | 15 | 14 | 15 | **66** | 17 | 14 | 12 | 14 | **57** | 6 | 13 | 10 | **29** |
| Chelsea | 51 | 86 | 92 | 44 | **273** | 72 | 73 | 73 | 41 | **259** | 37 | 52 | 68 | **157** |
| Cheshire | (1-4) | (1-4) | † | † | **(1-4)** | (1-4) | † | (1-4) | (1-4) | **5** | † | † | (1-4) | **(1-4)** |
| Chester | (1-4) | † | (1-4) | † | **(1-4)** | (1-4) | † | † | † | **(1-4)** | (1-4) | † | (1-4) | **(1-4)** |
| Chesterfield | † | † | (1-4) | † | **(1-4)** | † | (1-4) | † | (1-4) | **(1-4)** | (1-4) | † | † | **(1-4)** |
| Chicopee | 50 | 60 | 72 | 82 | **264** | 90 | 112 | 64 | 64 | **330** | 71 | 101 | 88 | **260** |
| Chilmark | † | † | † | (1-4) | **(1-4)** | (1-4) | † | (1-4) | † | **(1-4)** | † | † | † | **†** |
| Clarksburg | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| Clinton | 6 | 13 | 14 | 17 | **50** | 9 | 20 | 11 | 6 | **46** | \* | 11 | (1-4) | **21** |
| Cohasset | † | (1-4) | (1-4) | (1-4) | **9** | † | † | (1-4) | † | **(1-4)** | (1-4) | † | (1-4) | **(1-4)** |
| Colrain | † | † | † | † | **†** | (1-4) | † | (1-4) | (1-4) | **(1-4)** | † | (1-4) | † | **(1-4)** |
| Concord | (1-4) | (1-4) | (1-4) | (1-4) | **12** | (1-4) | 5 | (1-4) | † | **11** | (1-4) | † | \* | **7** |
| Conway | † | † | † | † | **†** | † | † | † | (1-4) | **(1-4)** | † | † | † | **†** |
| Cummington | † | † | (1-4) | † | **(1-4)** | † | † | † | † | **†** | † | (1-4) | † | **(1-4)** |
| Dalton | (1-4) | (1-4) | † | † | **(1-4)** | † | (1-4) | (1-4) | 5 | **13** | 7 | (1-4) | (1-4) | **11** |
| Danvers | 31 | 42 | 39 | 40 | **152** | 49 | 45 | 33 | 35 | **162** | 40 | 30 | 34 | **104** |
| Dartmouth | 19 | 27 | 23 | 29 | **98** | 33 | 26 | 32 | 33 | **124** | 34 | 31 | 17 | **82** |
| Dedham | 18 | 15 | 22 | 15 | **70** | 14 | 23 | 8 | 7 | **52** | 13 | 15 | 11 | **39** |

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|  | **2017** | | | | | **2018** | | | | | **2019** | | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | **Total** |
| Deerfield | † | (1-4) | † | (1-4) | **7** | † | (1-4) | (1-4) | 5 | **8** | (1-4) | † | (1-4) | **5** |
| Dennis | 10 | 10 | 20 | 15 | **55** | 7 | 13 | 9 | 7 | **36** | 11 | 9 | 8 | **28** |
| Dighton | (1-4) | (1-4) | † | † | **(1-4)** | (1-4) | (1-4) | † | † | **(1-4)** | (1-4) | † | (1-4) | **(1-4)** |
| Douglas | † | † | † | (1-4) | **(1-4)** | (1-4) | (1-4) | (1-4) | (1-4) | **11** | (1-4) | \* | † | **7** |
| Dover | † | † | (1-4) | † | **(1-4)** | (1-4) | (1-4) | (1-4) | (1-4) | **7** | † | † | † | **†** |
| Dracut | 17 | 24 | 32 | 20 | **93** | 22 | 19 | 12 | 20 | **73** | 5 | 28 | 16 | **49** |
| Dudley | (1-4) | 8 | \* | 7 | **24** | 5 | 19 | 13 | 13 | **50** | 18 | 8 | 6 | **32** |
| Dunstable | (1-4) | † | (1-4) | (1-4) | **(1-4)** | (1-4) | † | † | † | **(1-4)** | (1-4) | \* | † | **6** |
| Duxbury | (1-4) | (1-4) | (1-4) | 5 | **13** | (1-4) | (1-4) | (1-4) | (1-4) | **10** | (1-4) | (1-4) | (1-4) | **9** |
| East  Bridgewater | 5 | 6 | 5 | 9 | **25** | 6 | 5 | 16 | 8 | **35** | 9 | 5 | 5 | **19** |
| East Brookfield | † | † | (1-4) | † | **(1-4)** | † | (1-4) | (1-4) | † | **(1-4)** | † | (1-4) | † | **(1-4)** |
| East  Longmeadow | 8 | 5 | 5 | 7 | **25** | \* | (1-4) | 9 | 7 | **25** | 8 | 8 | 8 | **24** |
| Eastham | (1-4) | (1-4) | 5 | † | **9** | (1-4) | (1-4) | (1-4) | (1-4) | **8** | (1-4) | (1-4) | (1-4) | **6** |
| Easthampton | (1-4) | \* | 12 | 5 | **26** | 8 | 11 | 7 | 6 | **32** | 10 | (1-4) | \* | **22** |
| Easton | (1-4) | (1-4) | 6 | 12 | **21** | 13 | 12 | 10 | 12 | **47** | 9 | (1-4) | \* | **21** |
| Edgartown | (1-4) | (1-4) | (1-4) | † | **5** | (1-4) | † | (1-4) | (1-4) | **6** | (1-4) | (1-4) | (1-4) | **5** |
| Egremont | † | † | † | † | **†** | † | † | (1-4) | † | **(1-4)** | † | † | † | **†** |
| Erving | (1-4) | † | † | (1-4) | **(1-4)** | † | (1-4) | † | † | **(1-4)** | (1-4) | † | (1-4) | **(1-4)** |
| Essex | (1-4) | (1-4) | (1-4) | (1-4) | **5** | (1-4) | † | (1-4) | † | **(1-4)** | (1-4) | † | \* | **9** |
| Everett | 38 | 43 | 53 | 42 | **176** | 41 | 43 | 30 | 41 | **155** | 38 | 39 | 38 | **115** |
| Fairhaven | 11 | 15 | 12 | 13 | **51** | 13 | 20 | 12 | 11 | **56** | 6 | 12 | 16 | **34** |
| Fall River | 204 | 177 | 265 | 261 | **907** | 172 | 272 | 387 | 284 | **1,115** | 194 | 262 | 271 | **727** |
| Falmouth | 39 | 49 | 31 | 34 | **153** | 35 | 35 | 32 | 35 | **137** | 41 | 33 | 32 | **106** |
| Fitchburg | 79 | 78 | 105 | 82 | **344** | 66 | 80 | 83 | 46 | **275** | 86 | 72 | 69 | **227** |
| Florida | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| Foxborough | 14 | 10 | 11 | 7 | **42** | (1-4) | \* | 13 | 9 | **33** | 11 | 9 | 10 | **30** |
| Framingham | 47 | 37 | 52 | 57 | **193** | 42 | 63 | 52 | 50 | **207** | 43 | 71 | 46 | **160** |
| Franklin | 16 | 15 | \* | (1-4) | **47** | 9 | 9 | 5 | 10 | **33** | 7 | 11 | 6 | **24** |
| Freetown | (1-4) | (1-4) | (1-4) | (1-4) | **11** | (1-4) | 9 | 5 | (1-4) | **18** | (1-4) | (1-4) | (1-4) | **6** |
| Gardner | 24 | 14 | 20 | 13 | **71** | 12 | 27 | 29 | 35 | **103** | 24 | 30 | 42 | **96** |
| Georgetown | (1-4) | (1-4) | (1-4) | (1-4) | **7** | \* | (1-4) | † | 7 | **15** | (1-4) | 5 | (1-4) | **10** |
| Gill | † | † | † | † | **†** | † | (1-4) | (1-4) | (1-4) | **5** | † | † | (1-4) | **(1-4)** |
| Gloucester | 18 | 27 | 43 | 31 | **119** | 31 | 28 | 32 | 19 | **110** | 15 | 32 | 28 | **75** |
| Goshen | † | † | † | † | **†** | † | † | † | † | **†** | † | (1-4) | † | **(1-4)** |
| Gosnold | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| Grafton | \* | 7 | 10 | (1-4) | **25** | (1-4) | 6 | (1-4) | 8 | **18** | (1-4) | 7 | (1-4) | **12** |

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|  | **2017** | | | | | **2018** | | | | | **2019** | | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | **Total** |
| Granby | (1-4) | (1-4) | 6 | 11 | **19** | (1-4) | 8 | (1-4) | 6 | **22** | (1-4) | † | (1-4) | **6** |
| Granville | † | † | † | † | **†** | † | † | † | † | **†** | (1-4) | † | † | **(1-4)** |
| Great  Barrington | (1-4) | (1-4) | (1-4) | (1-4) | **13** | (1-4) | (1-4) | 5 | 7 | **17** | \* | 7 | (1-4) | **14** |
| Greenfield | 12 | 17 | 20 | 9 | **58** | 15 | 11 | 25 | 17 | **68** | 27 | 29 | 26 | **82** |
| Groton | (1-4) | (1-4) | † | † | **(1-4)** | (1-4) | (1-4) | (1-4) | † | **8** | (1-4) | (1-4) | † | **(1-4)** |
| Groveland | (1-4) | (1-4) | † | (1-4) | **7** | † | (1-4) | (1-4) | (1-4) | **6** | † | (1-4) | (1-4) | **(1-4)** |
| Hadley | (1-4) | 6 | 7 | (1-4) | **19** | (1-4) | (1-4) | (1-4) | (1-4) | **12** | (1-4) | (1-4) | (1-4) | **7** |
| Halifax | (1-4) | (1-4) | 5 | 11 | **22** | 7 | 5 | (1-4) | (1-4) | **19** | (1-4) | (1-4) | (1-4) | **11** |
| Hamilton | (1-4) | (1-4) | (1-4) | (1-4) | **7** | † | (1-4) | † | (1-4) | **(1-4)** | (1-4) | † | (1-4) | **(1-4)** |
| Hampden | (1-4) | (1-4) | 5 | † | **8** | 5 | (1-4) | (1-4) | 6 | **17** | (1-4) | \* | 9 | **19** |
| Hancock | † | (1-4) | † | † | **(1-4)** | † | † | † | † | **†** | † | † | † | **†** |
| Hanover | (1-4) | 5 | 5 | (1-4) | **17** | (1-4) | 5 | (1-4) | (1-4) | **12** | 6 | (1-4) | (1-4) | **13** |
| Hanson | (1-4) | 8 | (1-4) | (1-4) | **20** | 11 | (1-4) | (1-4) | 5 | **21** | 5 | (1-4) | (1-4) | **10** |
| Hardwick | (1-4) | † | † | † | **(1-4)** | (1-4) | (1-4) | (1-4) | (1-4) | **7** | (1-4) | (1-4) | (1-4) | **(1-4)** |
| Harvard | (1-4) | † | † | (1-4) | **(1-4)** | † | † | † | † | **†** | (1-4) | † | (1-4) | **5** |
| Harwich | 11 | 7 | 10 | 9 | **37** | 6 | 9 | (1-4) | (1-4) | **23** | \* | (1-4) | 5 | **13** |
| Hatfield | † | (1-4) | (1-4) | † | **6** | (1-4) | (1-4) | † | (1-4) | **(1-4)** | † | (1-4) | (1-4) | **(1-4)** |
| Haverhill | 90 | 87 | 126 | 82 | **385** | 80 | 86 | 78 | 83 | **327** | 59 | 58 | 73 | **190** |
| Hawley | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| Heath | (1-4) | † | † | (1-4) | **(1-4)** | † | † | † | † | **†** | † | † | † | **†** |
| Hingham | (1-4) | (1-4) | 5 | (1-4) | **12** | 6 | (1-4) | (1-4) | 5 | **15** | \* | † | (1-4) | **6** |
| Hinsdale | † | † | † | † | **†** | † | (1-4) | (1-4) | (1-4) | **5** | † | (1-4) | † | **(1-4)** |
| Holbrook | 16 | 17 | 18 | 9 | **60** | 8 | 12 | 12 | 6 | **38** | (1-4) | 9 | \* | **18** |
| Holden | (1-4) | (1-4) | 5 | (1-4) | **12** | (1-4) | (1-4) | (1-4) | (1-4) | **11** | (1-4) | (1-4) | (1-4) | **7** |
| Holland | † | † | (1-4) | † | **(1-4)** | (1-4) | (1-4) | † | † | **(1-4)** | † | † | † | **†** |
| Holliston | (1-4) | (1-4) | (1-4) | 5 | **14** | (1-4) | (1-4) | † | (1-4) | **6** | (1-4) | 9 | (1-4) | **13** |
| Holyoke | 59 | 70 | 89 | 69 | **287** | 89 | 169 | 109 | 92 | **459** | 115 | 135 | 161 | **411** |
| Hopedale | (1-4) | (1-4) | (1-4) | (1-4) | **7** | (1-4) | (1-4) | † | (1-4) | **9** | (1-4) | 7 | (1-4) | **10** |
| Hopkinton | (1-4) | 6 | (1-4) | (1-4) | **14** | 6 | (1-4) | 7 | (1-4) | **18** | (1-4) | (1-4) | (1-4) | **8** |
| Hubbardston | (1-4) | (1-4) | (1-4) | † | **7** | (1-4) | † | (1-4) | 6 | **8** | (1-4) | † | (1-4) | **(1-4)** |
| Hudson | 8 | 6 | 9 | 10 | **33** | 7 | 11 | 8 | 6 | **32** | 8 | 5 | 7 | **20** |
| Hull | (1-4) | (1-4) | (1-4) | † | **8** | † | (1-4) | 8 | (1-4) | **12** | (1-4) | 5 | (1-4) | **11** |
| Huntington | † | † | (1-4) | † | **(1-4)** | † | † | † | † | **†** | † | † | (1-4) | **(1-4)** |
| Ipswich | \* | 9 | (1-4) | 7 | **26** | (1-4) | (1-4) | 10 | (1-4) | **17** | (1-4) | (1-4) | 5 | **8** |
| Kingston | 6 | 5 | 11 | 5 | **27** | 12 | 7 | (1-4) | (1-4) | **27** | (1-4) | 9 | \* | **18** |
| Lakeville | 19 | 16 | 24 | 30 | **89** | 24 | 19 | 26 | 23 | **92** | 15 | 32 | 14 | **61** |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **2017** | | | | | **2018** | | | | | **2019** | | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | **Total** |
| Lancaster | † | (1-4) | (1-4) | (1-4) | **7** | (1-4) | (1-4) | 8 | (1-4) | **14** | (1-4) | (1-4) | 7 | **12** |
| Lanesborough | † | (1-4) | † | † | **(1-4)** | † | (1-4) | (1-4) | (1-4) | **9** | (1-4) | (1-4) | (1-4) | **5** |
| Lawrence | 156 | 183 | 255 | 220 | **814** | 183 | 176 | 188 | 163 | **710** | 138 | 151 | 163 | **452** |
| Lee | (1-4) | (1-4) | (1-4) | (1-4) | **9** | (1-4) | 5 | (1-4) | (1-4) | **11** | (1-4) | † | † | **(1-4)** |
| Leicester | 10 | 7 | 6 | 8 | **31** | 6 | 5 | (1-4) | (1-4) | **19** | \* | 7 | (1-4) | **18** |
| Lenox | (1-4) | 5 | (1-4) | (1-4) | **11** | † | (1-4) | (1-4) | † | **5** | (1-4) | (1-4) | 5 | **11** |
| Leominster | 68 | 57 | 72 | 56 | **253** | 46 | 64 | 56 | 72 | **238** | 50 | 56 | 32 | **138** |
| Leverett | (1-4) | † | † | † | **(1-4)** | † | † | † | † | **†** | † | † | † | **†** |
| Lexington | 5 | (1-4) | 5 | (1-4) | **16** | (1-4) | (1-4) | (1-4) | (1-4) | **7** | (1-4) | (1-4) | (1-4) | **9** |
| Leyden | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| Lincoln | (1-4) | (1-4) | (1-4) | (1-4) | **10** | † | † | † | † | **†** | † | (1-4) | † | **(1-4)** |
| Littleton | (1-4) | (1-4) | (1-4) | (1-4) | **11** | † | † | (1-4) | (1-4) | **(1-4)** | (1-4) | 5 | (1-4) | **8** |
| Longmeadow | (1-4) | (1-4) | (1-4) | (1-4) | **9** | (1-4) | (1-4) | (1-4) | 7 | **16** | (1-4) | (1-4) | (1-4) | **7** |
| Lowell | 357 | 399 | 400 | 310 | **1,466** | 270 | 250 | 284 | 290 | **1,094** | 187 | 200 | 179 | **566** |
| Ludlow | 11 | 6 | 17 | 12 | **46** | 10 | 19 | 12 | 10 | **51** | 10 | 9 | 10 | **29** |
| Lunenburg | (1-4) | (1-4) | (1-4) | (1-4) | **8** | (1-4) | \* | 9 | 8 | **27** | (1-4) | (1-4) | 6 | **13** |
| Lynn | 126 | 154 | 183 | 158 | **621** | 121 | 163 | 211 | 119 | **614** | 100 | 136 | 160 | **396** |
| Lynnfield | (1-4) | (1-4) | (1-4) | (1-4) | **10** | 5 | (1-4) | (1-4) | 8 | **18** | (1-4) | (1-4) | (1-4) | **7** |
| Malden | 34 | 55 | 75 | 44 | **208** | 54 | 51 | 57 | 46 | **208** | 27 | 57 | 53 | **137** |
| Manchester | (1-4) | (1-4) | † | (1-4) | **6** | † | † | † | (1-4) | **(1-4)** | (1-4) | † | † | **(1-4)** |
| Mansfield | 7 | 11 | 8 | 18 | **44** | 9 | 12 | 8 | 8 | **37** | 8 | 19 | 8 | **35** |
| Marblehead | 9 | 5 | 7 | 10 | **31** | (1-4) | 6 | 9 | (1-4) | **19** | (1-4) | 5 | (1-4) | **11** |
| Marion | (1-4) | (1-4) | (1-4) | (1-4) | **8** | (1-4) | (1-4) | (1-4) | (1-4) | **7** | (1-4) | (1-4) | (1-4) | **9** |
| Marlborough | 11 | 9 | 19 | 17 | **56** | 22 | 14 | 22 | 24 | **82** | 17 | 19 | 21 | **57** |
| Marshfield | 8 | 7 | 11 | 17 | **43** | 8 | 11 | (1-4) | \* | **30** | 5 | 14 | 8 | **27** |
| Mashpee | 16 | 17 | 10 | 11 | **54** | 9 | 12 | 9 | 8 | **38** | 10 | 11 | 10 | **31** |
| Mattapoisett | (1-4) | (1-4) | 6 | 5 | **15** | 5 | (1-4) | 9 | (1-4) | **19** | 6 | (1-4) | (1-4) | **12** |
| Maynard | 8 | 10 | (1-4) | (1-4) | **24** | (1-4) | (1-4) | (1-4) | (1-4) | **8** | (1-4) | (1-4) | † | **5** |
| Medfield | 5 | (1-4) | (1-4) | (1-4) | **11** | † | (1-4) | (1-4) | (1-4) | **6** | (1-4) | (1-4) | † | **5** |
| Medford | 17 | 24 | 31 | 28 | **100** | 18 | 22 | 37 | 22 | **99** | 26 | 29 | 17 | **72** |
| Medway | \* | 8 | 17 | (1-4) | **36** | 8 | 5 | 7 | 7 | **27** | \* | 9 | (1-4) | **20** |
| Melrose | 6 | 5 | 15 | 7 | **33** | 9 | 6 | 5 | 5 | **25** | (1-4) | \* | 9 | **20** |
| Mendon | (1-4) | 5 | † | (1-4) | **7** | (1-4) | † | (1-4) | (1-4) | **8** | (1-4) | (1-4) | (1-4) | **7** |
| Merrimac | (1-4) | (1-4) | 7 | 5 | **16** | 6 | † | (1-4) | (1-4) | **10** | (1-4) | (1-4) | (1-4) | **7** |
| Methuen | 30 | 40 | 61 | 46 | **177** | 39 | 42 | 56 | 43 | **180** | 44 | 48 | 37 | **129** |
| Middleborough | (1-4) | (1-4) | (1-4) | 5 | **10** | (1-4) | (1-4) | † | (1-4) | **(1-4)** | † | (1-4) | (1-4) | **(1-4)** |
| Middlefield | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |

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|  | **2017** | | | | | **2018** | | | | | **2019** | | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | **Total** |
| Middleton | (1-4) | (1-4) | 7 | 8 | **21** | 14 | (1-4) | \* | 8 | **32** | (1-4) | 10 | (1-4) | **16** |
| Milford | 12 | 27 | 13 | 18 | **70** | 20 | 15 | 10 | 25 | **70** | 24 | 17 | 21 | **62** |
| Millbury | 12 | 11 | 10 | 15 | **48** | 8 | 15 | 13 | 11 | **47** | 9 | 8 | 8 | **25** |
| Millis | 6 | (1-4) | 5 | (1-4) | **15** | 7 | † | (1-4) | (1-4) | **14** | (1-4) | (1-4) | (1-4) | **8** |
| Millville | † | † | (1-4) | (1-4) | **7** | (1-4) | (1-4) | † | (1-4) | **7** | † | (1-4) | † | **(1-4)** |
| Milton | 9 | 10 | 10 | 5 | **34** | 9 | (1-4) | 7 | \* | **24** | (1-4) | (1-4) | 8 | **13** |
| Monroe | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| Monson | (1-4) | (1-4) | 6 | (1-4) | **17** | (1-4) | (1-4) | (1-4) | (1-4) | **12** | (1-4) | (1-4) | 6 | **11** |
| Montague | 6 | \* | 8 | (1-4) | **23** | (1-4) | 11 | 8 | \* | **28** | (1-4) | \* | 12 | **25** |
| Monterey | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| Montgomery | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| Mount  Washington | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| Nahant | † | (1-4) | (1-4) | † | **6** | (1-4) | (1-4) | † | (1-4) | **7** | † | (1-4) | † | **(1-4)** |
| Nantucket | (1-4) | (1-4) | (1-4) | (1-4) | **11** | (1-4) | (1-4) | 5 | 5 | **14** | † | † | (1-4) | **(1-4)** |
| Natick | 7 | 6 | 8 | 9 | **30** | 8 | 7 | 9 | 11 | **35** | 18 | 14 | 14 | **46** |
| Needham | (1-4) | † | (1-4) | (1-4) | **7** | (1-4) | (1-4) | (1-4) | (1-4) | **9** | 6 | (1-4) | (1-4) | **10** |
| New Ashford | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| New  Bedford | 126 | 210 | 246 | 138 | **720** | 146 | 264 | 205 | 136 | **751** | 196 | 157 | 99 | **452** |
| New Braintree | † | (1-4) | † | † | **(1-4)** | † | † | (1-4) | † | **(1-4)** | † | (1-4) | (1-4) | **(1-4)** |
| New  Marlborough | † | (1-4) | † | † | **(1-4)** | † | † | (1-4) | (1-4) | **(1-4)** | (1-4) | † | † | **(1-4)** |
| New Salem | † | (1-4) | (1-4) | † | **(1-4)** | † | † | † | † | **†** | † | † | † | **†** |
| Newbury | (1-4) | (1-4) | † | (1-4) | **6** | † | (1-4) | (1-4) | 5 | **9** | (1-4) | (1-4) | † | **5** |
| Newburyport | 5 | (1-4) | 9 | (1-4) | **18** | (1-4) | 6 | (1-4) | (1-4) | **18** | (1-4) | (1-4) | (1-4) | **11** |
| Newton | 19 | 19 | 16 | 18 | **72** | 21 | 15 | 14 | 19 | **69** | 11 | 19 | 7 | **37** |
| Norfolk | (1-4) | (1-4) | (1-4) | (1-4) | **7** | (1-4) | (1-4) | (1-4) | † | **5** | (1-4) | (1-4) | (1-4) | **7** |
| North Adams | 10 | 10 | 18 | 15 | **53** | 18 | 26 | 30 | 13 | **87** | 27 | 26 | 12 | **65** |
| North Andover | 21 | 15 | 16 | 25 | **77** | 13 | 7 | 13 | 5 | **38** | 12 | 11 | 13 | **36** |
| North Attleboro | 12 | 28 | 22 | 22 | **84** | 21 | 19 | 15 | 18 | **73** | 9 | 18 | 22 | **49** |
| North  Brookfield | † | (1-4) | † | (1-4) | **5** | (1-4) | † | † | (1-4) | **(1-4)** | † | † | (1-4) | **(1-4)** |
| North Reading | (1-4) | 9 | (1-4) | (1-4) | **18** | (1-4) | 6 | (1-4) | 10 | **23** | (1-4) | 5 | (1-4) | **11** |
| Northampton | 30 | 22 | 18 | 23 | **93** | 16 | 38 | 22 | 26 | **102** | 34 | 22 | 23 | **79** |
| Northborough | (1-4) | (1-4) | 6 | (1-4) | **14** | (1-4) | 7 | (1-4) | 9 | **21** | 7 | (1-4) | (1-4) | **13** |
| Northbridge | 5 | 6 | 9 | 7 | **27** | 7 | 15 | 12 | 6 | **40** | 6 | 10 | 8 | **24** |
| Northfield | † | † | (1-4) | (1-4) | **(1-4)** | (1-4) | (1-4) | † | (1-4) | **(1-4)** | † | † | † | **†** |
| Norton | (1-4) | (1-4) | 9 | 7 | **24** | 11 | 9 | 7 | 5 | **32** | (1-4) | 8 | (1-4) | **13** |

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|  | **2017** | | | | | **2018** | | | | | **2019** | | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | **Total** |
| Norwell | \* | 7 | (1-4) | 6 | **22** | (1-4) | 5 | (1-4) | 5 | **17** | \* | 5 | (1-4) | **11** |
| Norwood | 18 | 17 | 21 | 14 | **70** | 9 | 12 | 22 | 8 | **51** | 18 | 12 | 9 | **39** |
| Oak Bluffs | (1-4) | † | (1-4) | (1-4) | **5** | (1-4) | (1-4) | † | (1-4) | **5** | (1-4) | (1-4) | (1-4) | **7** |
| Oakham | (1-4) | † | (1-4) | † | **(1-4)** | (1-4) | (1-4) | † | † | **(1-4)** | † | † | † | **†** |
| Orange | 8 | (1-4) | 5 | (1-4) | **20** | (1-4) | 12 | 10 | \* | **29** | 9 | \* | (1-4) | **20** |
| Orleans | 5 | (1-4) | (1-4) | (1-4) | **11** | (1-4) | (1-4) | (1-4) | 7 | **16** | (1-4) | (1-4) | (1-4) | **5** |
| Otis | † | † | † | † | **†** | † | (1-4) | † | † | **(1-4)** | † | † | † | **†** |
| Oxford | 12 | \* | (1-4) | 12 | **37** | (1-4) | 14 | \* | 20 | **50** | 9 | 9 | 9 | **27** |
| Palmer | (1-4) | 9 | \* | 8 | **27** | 16 | 15 | 14 | 8 | **53** | 10 | 10 | 9 | **29** |
| Paxton | (1-4) | (1-4) | (1-4) | † | **6** | (1-4) | (1-4) | (1-4) | (1-4) | **9** | (1-4) | (1-4) | (1-4) | **(1-4)** |
| Peabody | 36 | 38 | 56 | 42 | **172** | 44 | 57 | 40 | 35 | **176** | 32 | 32 | 34 | **98** |
| Pelham | † | † | (1-4) | † | **(1-4)** | † | † | (1-4) | † | **(1-4)** | † | † | † | **†** |
| Pembroke | 12 | 8 | 7 | 5 | **32** | 7 | 6 | † | 7 | **20** | 5 | 8 | 9 | **22** |
| Pepperell | (1-4) | (1-4) | 6 | (1-4) | **14** | 7 | (1-4) | (1-4) | (1-4) | **14** | (1-4) | (1-4) | † | **(1-4)** |
| Peru | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| Petersham | † | † | † | † | **†** | † | † | † | † | **†** | (1-4) | † | † | **(1-4)** |
| Phillipston | † | † | † | † | **†** | † | † | † | † | **†** | † | † | (1-4) | **(1-4)** |
| Pittsfield | 17 | 44 | 36 | 16 | **113** | 38 | 67 | 69 | 64 | **238** | 57 | 46 | 96 | **199** |
| Plainfield | † | (1-4) | (1-4) | (1-4) | **5** | (1-4) | † | (1-4) | (1-4) | **6** | (1-4) | (1-4) | † | **(1-4)** |
| Plainville | 8 | 6 | 5 | 7 | **26** | (1-4) | (1-4) | 5 | (1-4) | **15** | (1-4) | 9 | (1-4) | **17** |
| Plymouth | 59 | 68 | 84 | 69 | **280** | 46 | 74 | 41 | 51 | **212** | 58 | 57 | 35 | **150** |
| Plympton | (1-4) | (1-4) | † | † | **(1-4)** | † | (1-4) | (1-4) | (1-4) | **(1-4)** | † | (1-4) | (1-4) | **(1-4)** |
| Princeton | † | (1-4) | (1-4) | (1-4) | **6** | (1-4) | (1-4) | † | (1-4) | **5** | † | (1-4) | † | **(1-4)** |
| Provincetown | (1-4) | (1-4) | (1-4) | † | **9** | † | (1-4) | 16 | (1-4) | **24** | (1-4) | 11 | \* | **23** |
| Quincy | 104 | 106 | 186 | 96 | **492** | 137 | 123 | 135 | 80 | **475** | 113 | 129 | 110 | **352** |
| Randolph | 20 | 14 | 20 | 24 | **78** | 10 | 9 | 15 | 25 | **59** | 16 | 20 | 15 | **51** |
| Raynham | 6 | 10 | 12 | 9 | **37** | 13 | 12 | 10 | 16 | **51** | 8 | 14 | 12 | **34** |
| Reading | (1-4) | \* | 12 | 13 | **37** | 8 | 7 | \* | (1-4) | **25** | (1-4) | (1-4) | (1-4) | **8** |
| Rehoboth | (1-4) | (1-4) | (1-4) | (1-4) | **10** | † | † | (1-4) | (1-4) | **(1-4)** | (1-4) | † | (1-4) | **(1-4)** |
| Revere | 57 | 69 | 81 | 59 | **266** | 67 | 77 | 73 | 57 | **274** | 42 | 56 | 54 | **152** |
| Richmond | † | † | † | † | **†** | † | (1-4) | (1-4) | † | **(1-4)** | † | † | (1-4) | **(1-4)** |
| Rochester | (1-4) | † | (1-4) | (1-4) | **7** | (1-4) | (1-4) | † | (1-4) | **6** | † | 5 | † | **5** |
| Rockland | 19 | 19 | 24 | 22 | **84** | 17 | 16 | 12 | 14 | **59** | 10 | 9 | 12 | **31** |
| Rockport | (1-4) | \* | † | 6 | **13** | † | † | (1-4) | (1-4) | **(1-4)** | (1-4) | † | (1-4) | **(1-4)** |
| Rowe | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| Rowley | (1-4) | (1-4) | (1-4) | † | **(1-4)** | † | (1-4) | (1-4) | (1-4) | **6** | (1-4) | † | (1-4) | **(1-4)** |
| Royalston | † | † | † | (1-4) | **(1-4)** | (1-4) | (1-4) | † | † | **(1-4)** | † | † | † | **†** |

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|  | **2017** | | | | | **2018** | | | | | **2019** | | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | **Total** |
| Russell | (1-4) | (1-4) | † | (1-4) | **(1-4)** | (1-4) | (1-4) | † | † | **(1-4)** | (1-4) | (1-4) | (1-4) | **6** |
| Rutland | 7 | (1-4) | (1-4) | (1-4) | **14** | (1-4) | (1-4) | (1-4) | † | **5** | (1-4) | (1-4) | (1-4) | **7** |
| Salem | 56 | 59 | 80 | 46 | **241** | 42 | 54 | 54 | 37 | **187** | 33 | 29 | 41 | **103** |
| Salisbury | 18 | 25 | 34 | 30 | **107** | 17 | 21 | 28 | 17 | **83** | 9 | 10 | 7 | **26** |
| Sandisfield | (1-4) | † | † | † | **(1-4)** | † | † | † | † | **†** | † | † | † | **†** |
| Sandwich | 14 | 9 | 6 | 11 | **40** | 10 | 12 | \* | (1-4) | **35** | 7 | 7 | 7 | **21** |
| Saugus | 25 | 32 | 32 | 28 | **117** | 29 | 27 | 24 | 18 | **98** | 33 | 30 | 22 | **85** |
| Savoy | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| Scituate | (1-4) | (1-4) | 6 | (1-4) | **13** | (1-4) | (1-4) | 5 | 6 | **16** | (1-4) | (1-4) | (1-4) | **9** |
| Seekonk | 5 | 11 | 9 | 7 | **32** | (1-4) | (1-4) | 6 | 8 | **19** | \* | (1-4) | 5 | **14** |
| Sharon | (1-4) | (1-4) | (1-4) | 7 | **19** | 5 | (1-4) | (1-4) | (1-4) | **15** | (1-4) | (1-4) | † | **(1-4)** |
| Sheffield | † | (1-4) | (1-4) | (1-4) | **7** | † | † | (1-4) | (1-4) | **5** | (1-4) | (1-4) | (1-4) | **(1-4)** |
| Shelburne | (1-4) | † | (1-4) | † | **(1-4)** | † | (1-4) | (1-4) | † | **(1-4)** | (1-4) | (1-4) | † | **(1-4)** |
| Sherborn | † | † | † | (1-4) | **(1-4)** | (1-4) | † | (1-4) | † | **(1-4)** | † | † | † | **†** |
| Shirley | \* | (1-4) | 7 | 6 | **21** | 7 | 8 | 6 | 6 | **27** | 5 | 5 | 8 | **18** |
| Shrewsbury | 8 | 20 | 14 | 19 | **61** | 25 | 25 | 15 | 14 | **79** | 16 | 13 | 8 | **37** |
| Shutesbury | † | † | † | † | **†** | (1-4) | † | (1-4) | † | **(1-4)** | † | † | † | **†** |
| Somerset | 7 | 11 | 15 | 14 | **47** | 12 | 16 | \* | (1-4) | **37** | (1-4) | 10 | \* | **23** |
| Somerville | 28 | 43 | 47 | 26 | **144** | 32 | 33 | 38 | 27 | **130** | 25 | 33 | 40 | **98** |
| South Hadley | † | † | (1-4) | (1-4) | **5** | (1-4) | 12 | 14 | \* | **35** | 10 | 5 | 11 | **26** |
| Southampton | (1-4) | (1-4) | † | (1-4) | **(1-4)** | † | (1-4) | \* | † | **8** | (1-4) | (1-4) | (1-4) | **5** |
| Southborough | † | † | (1-4) | (1-4) | **5** | (1-4) | (1-4) | 7 | † | **9** | (1-4) | † | (1-4) | **(1-4)** |
| Southbridge | 7 | 16 | 22 | 27 | **72** | 8 | 20 | 24 | 25 | **77** | 33 | 31 | 28 | **92** |
| Southwick | 9 | (1-4) | (1-4) | 8 | **24** | 5 | 10 | 5 | 11 | **31** | 5 | 7 | 7 | **19** |
| Spencer | 10 | 6 | 9 | 10 | **35** | 5 | 12 | 6 | 7 | **30** | 9 | 9 | 19 | **37** |
| Springfield | 127 | 200 | 243 | 178 | **748** | 185 | 289 | 266 | 212 | **952** | 235 | 312 | 346 | **893** |
| Sterling | (1-4) | (1-4) | (1-4) | (1-4) | **10** | \* | 6 | 9 | (1-4) | **22** | (1-4) | 5 | (1-4) | **10** |
| Stockbridge | (1-4) | † | † | (1-4) | **(1-4)** | † | (1-4) | † | † | **(1-4)** | (1-4) | † | † | **(1-4)** |
| Stoneham | 10 | 11 | 24 | 9 | **54** | 13 | 10 | 10 | 6 | **39** | 5 | 14 | 10 | **29** |
| Stoughton | 15 | 17 | 20 | 14 | **66** | 32 | 22 | 26 | 21 | **101** | 24 | 25 | 19 | **68** |
| Stow | (1-4) | 6 | (1-4) | (1-4) | **13** | (1-4) | † | (1-4) | (1-4) | **6** | † | † | (1-4) | **(1-4)** |
| Sturbridge | (1-4) | (1-4) | (1-4) | 9 | **20** | (1-4) | 10 | 9 | \* | **27** | 6 | (1-4) | (1-4) | **13** |
| Sudbury | (1-4) | (1-4) | (1-4) | (1-4) | **7** | (1-4) | (1-4) | (1-4) | (1-4) | **11** | † | (1-4) | † | **(1-4)** |
| Sunderland | † | (1-4) | † | † | **(1-4)** | (1-4) | † | (1-4) | (1-4) | **(1-4)** | † | (1-4) | † | **(1-4)** |
| Sutton | (1-4) | (1-4) | (1-4) | (1-4) | **11** | 6 | (1-4) | (1-4) | 7 | **19** | (1-4) | (1-4) | (1-4) | **9** |
| Swampscott | (1-4) | 6 | 6 | (1-4) | **18** | (1-4) | 5 | (1-4) | (1-4) | **13** | (1-4) | \* | † | **7** |
| Swansea | 11 | \* | 16 | (1-4) | **35** | \* | 13 | (1-4) | 12 | **39** | \* | (1-4) | 13 | **30** |

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|  | **2017** | | | | | **2018** | | | | | **2019** | | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | **Total** |
| Taunton | 43 | 84 | 97 | 79 | **303** | 72 | 73 | 75 | 71 | **291** | 64 | 66 | 52 | **182** |
| Templeton | 5 | (1-4) | 6 | (1-4) | **15** | 6 | (1-4) | \* | 6 | **21** | \* | 8 | (1-4) | **16** |
| Tewksbury | 47 | 53 | 32 | 22 | **154** | 44 | 28 | 26 | 23 | **121** | 18 | 29 | 22 | **69** |
| Tisbury | (1-4) | (1-4) | (1-4) | † | **7** | † | † | (1-4) | (1-4) | **5** | (1-4) | (1-4) | † | **(1-4)** |
| Tolland | † | † | † | † | **†** | † | † | † | † | **†** | † | † | † | **†** |
| Topsfield | (1-4) | 6 | † | (1-4) | **9** | (1-4) | † | † | (1-4) | **6** | (1-4) | (1-4) | (1-4) | **5** |
| Townsend | (1-4) | (1-4) | † | (1-4) | **10** | \* | 9 | (1-4) | † | **16** | (1-4) | (1-4) | (1-4) | **5** |
| Truro | † | † | † | (1-4) | **(1-4)** | (1-4) | (1-4) | (1-4) | (1-4) | **5** | † | † | (1-4) | **(1-4)** |
| Tyngsborough | (1-4) | \* | 9 | 7 | **24** | 9 | 7 | (1-4) | (1-4) | **23** | (1-4) | (1-4) | (1-4) | **8** |
| Tyringham | † | † | † | † | **†** | † | † | † | † | **†** | † | † | (1-4) | **(1-4)** |
| Upton | † | (1-4) | (1-4) | (1-4) | **11** | (1-4) | (1-4) | (1-4) | (1-4) | **6** | (1-4) | 6 | (1-4) | **13** |
| Uxbridge | 6 | 5 | 7 | 7 | **25** | (1-4) | 11 | 5 | (1-4) | **23** | \* | (1-4) | 7 | **15** |
| Wakefield | 10 | 21 | 24 | 14 | **69** | 9 | 19 | 13 | 13 | **54** | 20 | 11 | 14 | **45** |
| Wales | † | † | (1-4) | (1-4) | **(1-4)** | (1-4) | (1-4) | (1-4) | † | **5** | † | (1-4) | † | **(1-4)** |
| Walpole | 7 | 8 | 8 | 6 | **29** | 10 | 17 | 13 | 6 | **46** | 6 | 10 | 6 | **22** |
| Waltham | 23 | 38 | 47 | 26 | **134** | 34 | 33 | 28 | 21 | **116** | 20 | 31 | 36 | **87** |
| Ware | (1-4) | 6 | 12 | (1-4) | **23** | 8 | 11 | 9 | 8 | **36** | 7 | 9 | 5 | **21** |
| Wareham | 42 | 39 | 53 | 54 | **188** | 33 | 42 | 54 | 38 | **167** | 33 | 34 | 25 | **92** |
| Warren | 6 | (1-4) | (1-4) | † | **13** | (1-4) | 6 | (1-4) | (1-4) | **15** | 6 | (1-4) | \* | **15** |
| Warwick | † | (1-4) | † | † | **(1-4)** | † | † | (1-4) | † | **(1-4)** | † | † | † | **†** |
| Washington | † | † | † | (1-4) | **(1-4)** | † | † | † | † | **†** | † | † | † | **†** |
| Watertown | 6 | 13 | 15 | 14 | **48** | 16 | 19 | 20 | 11 | **66** | 9 | 12 | 12 | **33** |
| Wayland | (1-4) | (1-4) | (1-4) | (1-4) | **6** | (1-4) | † | † | † | **(1-4)** | (1-4) | † | (1-4) | **(1-4)** |
| Webster | 17 | 19 | 27 | 20 | **83** | 15 | 33 | 41 | 38 | **127** | 37 | 39 | 26 | **102** |
| Wellesley | (1-4) | (1-4) | (1-4) | 6 | **14** | (1-4) | (1-4) | (1-4) | 7 | **16** | (1-4) | (1-4) | (1-4) | **5** |
| Wellfleet | † | \* | 5 | (1-4) | **11** | † | (1-4) | † | (1-4) | **(1-4)** | † | \* | (1-4) | **7** |
| Wendell | † | † | † | † | **†** | † | † | † | † | **†** | † | (1-4) | † | **(1-4)** |
| Wenham | (1-4) | † | (1-4) | (1-4) | **(1-4)** | † | (1-4) | † | (1-4) | **(1-4)** | † | † | (1-4) | **(1-4)** |
| West Boylston | 6 | (1-4) | (1-4) | 6 | **17** | (1-4) | 5 | 7 | (1-4) | **19** | 7 | \* | (1-4) | **16** |
| West  Bridgewater | (1-4) | 5 | (1-4) | 11 | **22** | (1-4) | 7 | (1-4) | (1-4) | **13** | (1-4) | (1-4) | (1-4) | **7** |
| West Brookfield | (1-4) | (1-4) | (1-4) | 5 | **10** | (1-4) | (1-4) | (1-4) | (1-4) | **10** | (1-4) | (1-4) | † | **(1-4)** |
| West Newbury | † | † | (1-4) | † | **(1-4)** | (1-4) | † | † | † | **(1-4)** | † | † | † | **†** |
| West  Springfield | 11 | 15 | 40 | 23 | **89** | 23 | 38 | 23 | 22 | **106** | 30 | 30 | 33 | **93** |
| West  Stockbridge | † | † | † | † | **†** | † | (1-4) | † | † | **(1-4)** | † | † | † | **†** |
| West Tisbury | † | (1-4) | (1-4) | † | **(1-4)** | † | † | † | † | **†** | (1-4) | † | † | **(1-4)** |

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|  | **2017** | | | | | **2018** | | | | | **2019** | | | |
| City/Town | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | Q4 | **Total** | Q1 | Q2 | Q3 | **Total** |
| Westborough | 5 | † | 10 | 11 | **26** | 14 | 13 | 8 | 12 | **47** | 14 | 13 | 15 | **42** |
| Westfield | 13 | 16 | 21 | 21 | **71** | 31 | 28 | 20 | 15 | **94** | 21 | 24 | 31 | **76** |
| Westford | \* | 10 | (1-4) | 6 | **26** | 8 | 10 | (1-4) | (1-4) | **22** | (1-4) | (1-4) | (1-4) | **10** |
| Westhampton | (1-4) | † | † | † | **(1-4)** | † | † | † | † | **†** | † | † | † | **†** |
| Westminster | (1-4) | 5 | (1-4) | 8 | **21** | \* | (1-4) | 6 | 7 | **22** | \* | 9 | (1-4) | **19** |
| Weston | 9 | (1-4) | (1-4) | † | **11** | (1-4) | (1-4) | (1-4) | † | **(1-4)** | † | (1-4) | (1-4) | **(1-4)** |
| Westport | 7 | 8 | 9 | 5 | **29** | 9 | 9 | 7 | 8 | **33** | (1-4) | 8 | (1-4) | **16** |
| Westwood | (1-4) | 5 | (1-4) | 6 | **13** | † | (1-4) | (1-4) | † | **(1-4)** | (1-4) | † | † | **(1-4)** |
| Weymouth | 51 | 59 | 76 | 64 | **250** | 54 | 52 | 31 | 41 | **178** | 43 | 49 | 48 | **140** |
| Whately | (1-4) | (1-4) | † | (1-4) | **(1-4)** | † | † | (1-4) | (1-4) | **(1-4)** | (1-4) | (1-4) | (1-4) | **7** |
| Whitman | 9 | 7 | 26 | 11 | **53** | 14 | 9 | 10 | 11 | **44** | 11 | 8 | 10 | **29** |
| Wilbraham | 5 | 8 | 6 | 8 | **27** | 8 | 13 | 8 | 11 | **40** | 12 | (1-4) | \* | **23** |
| Williamsburg | (1-4) | (1-4) | (1-4) | † | **5** | (1-4) | † | † | † | **(1-4)** | (1-4) | † | (1-4) | **(1-4)** |
| Williamstown | † | (1-4) | (1-4) | † | **(1-4)** | (1-4) | (1-4) | † | (1-4) | **7** | (1-4) | (1-4) | (1-4) | **8** |
| Wilmington | 7 | 19 | 22 | 26 | **74** | 21 | 15 | 8 | 5 | **49** | 16 | 10 | 13 | **39** |
| Winchendon | † | 5 | 7 | 7 | **19** | 7 | 9 | 7 | 6 | **29** | (1-4) | 12 | \* | **24** |
| Winchester | (1-4) | † | (1-4) | (1-4) | **8** | (1-4) | (1-4) | (1-4) | 6 | **14** | (1-4) | 8 | \* | **17** |
| Windsor | † | † | † | † | **†** | † | † | † | † | **†** | † | (1-4) | † | **(1-4)** |
| Winthrop | 5 | 11 | 12 | 9 | **37** | 9 | 8 | 12 | 13 | **42** | \* | 8 | (1-4) | **19** |
| Woburn | 45 | 37 | 46 | 29 | **157** | 33 | 39 | 27 | 32 | **131** | 27 | 29 | 37 | **93** |
| Worcester | 288 | 386 | 473 | 463 | **1,610** | 362 | 471 | 482 | 464 | **1,779** | 411 | 371 | 151 | **933** |
| Worthington | † | (1-4) | † | † | **(1-4)** | † | † | † | † | **†** | † | † | † | **†** |
| Wrentham | 6 | 7 | 9 | 6 | **28** | (1-4) | (1-4) | (1-4) | 7 | **16** | (1-4) | \* | 9 | **19** |
| Yarmouth | 18 | 29 | 35 | 17 | **99** | 10 | 19 | 15 | 14 | **58** | 19 | 21 | 20 | **60** |
| Unknown | 49 | 48 | 64 | 54 | **215** | 22 | 11 | 7 | 8 | **48** | (1-4) | (1-4) | (1-4) | **12** |
| **Grand Total** | **4,909** | **6,148** | **7,646** | **6,131** | **24,834** | **5,632** | **6,726** | **6,624** | **5,592** | **24,574** | **5,248** | **6,006** | **5,555** | **16,809** |

# Technical Notes

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# Source

* Bureau of Health Care Safety and Quality, MDPH