



# MA Opioid-Related EMS Incidents 2013-September 2018

Massachusetts Department of Public Health

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## 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 overall 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 2018, the greatest number of suspected opioid-related overdoses treated by EMS is among males aged 25-34, accounting for 25% of opioid-related overdose incidents with a known age and gender.

All Suspected Opioid Related Incidents: 2018 (Quarter 1)								
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	0	333	1182	809	545	290	10	3169
Female	<5	176	528	335	224	166	83	1512*
Total	<5	509	1710	1144	769	456	93	4681*

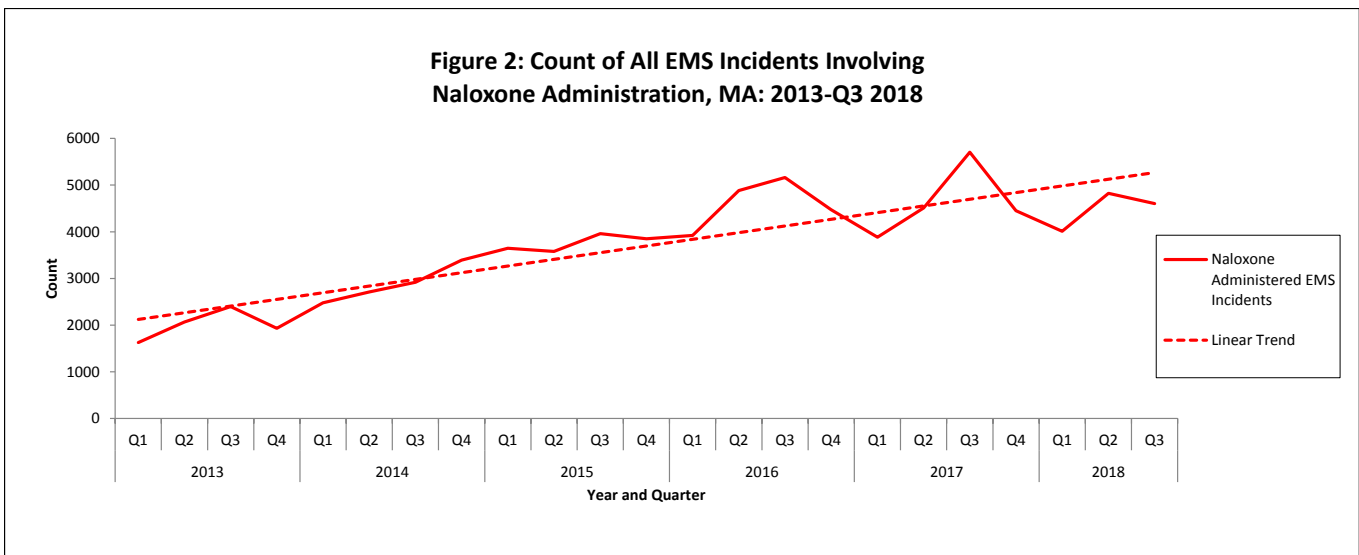
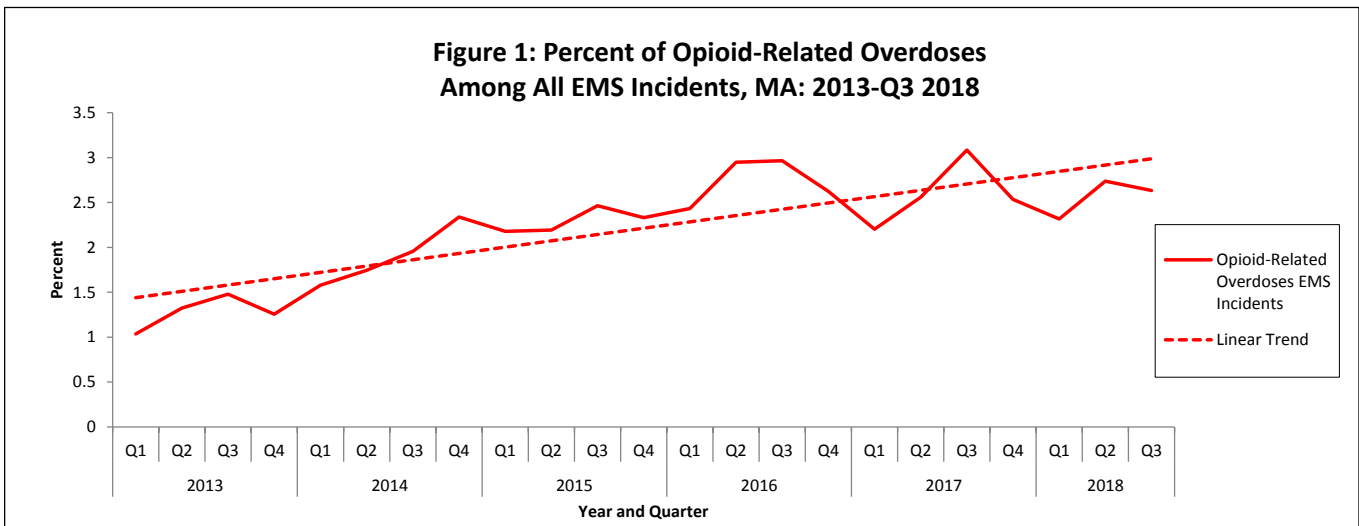
\*Total of non-suppressed cells

All Suspected Opioid Related Incidents: 2018 (Quarter 2)								
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	<5	360	1428	951	625	375	13	3752*
Female	<5	180	711	425	219	186	83	1804*
Total	<5	540	2139	1376	844	561	96	5556*

\*Total of non-suppressed cells

All Suspected Opioid Related Incidents: 2018 (Quarter 3)								
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	<5	320	1372	974	627	353	121	3767*
Female	<5	149	714	408	241	156	67	1735*
Total	<5	469	2086	1382	868	509	188	5502*

\*Total of non-suppressed cells



The 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. \* indicates complementary suppression of the next smallest count was applied if only one count was <5.

City/Town	<u>2016</u>					<u>2017</u>					<u>2018</u>			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Abington	12	9	12	9	<b>42</b>	14	9	10	12	<b>45</b>	*	9	<5	<b>20</b>
Acton	*	6	<5	6	<b>21</b>	*	7	<5	6	<b>19</b>	*	†	<5	<b>10</b>
Acushnet	†	<5	*	5	<b>12</b>	7	7	6	5	<b>25</b>	6	<5	<5	<b>12</b>
Adams	†	†	†	†	†	5	<5	<5	10	<b>19</b>	11	<5	*	<b>22</b>
Agawam	18	8	16	12	<b>54</b>	9	10	13	11	<b>43</b>	24	24	19	<b>67</b>
Alford	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Amesbury	16	24	13	16	<b>69</b>	11	15	14	12	<b>52</b>	11	7	13	<b>31</b>
Amherst	8	<5	<5	5	<b>20</b>	8	6	8	7	<b>29</b>	<5	*	7	<b>16</b>
Andover	<5	*	11	12	<b>32</b>	7	11	12	14	<b>44</b>	9	6	11	<b>26</b>
Aquinnah	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Arlington	18	16	16	8	<b>58</b>	11	14	19	23	<b>67</b>	<5	*	14	<b>28</b>
Ashburnham	<5	<5	<5	†	<b>9</b>	<5	<5	†	†	<b>&lt;5</b>	<5	†	<5	<b>&lt;5</b>
Ashby	<5	†	<5	<5	<b>8</b>	†	<5	<5	5	<b>12</b>	<5	<5	<5	<b>7</b>
Ashfield	†	†	†	<5	<b>&lt;5</b>	†	†	†	†	†	†	†	†	†
Ashland	<5	*	7	8	<b>25</b>	*	9	7	<5	<b>25</b>	<5	<5	5	<b>12</b>
Athol	5	8	9	16	<b>38</b>	7	15	12	8	<b>42</b>	19	33	18	<b>70</b>
Attleboro	21	39	38	40	<b>138</b>	36	31	46	31	<b>144</b>	43	30	43	<b>116</b>
Auburn	*	<5	11	7	<b>27</b>	6	11	7	6	<b>30</b>	8	15	7	<b>30</b>
Avon	<5	6	*	7	<b>20</b>	<5	<5	<5	†	<b>7</b>	†	*	<5	<b>8</b>
Ayer	6	<5	<5	7	<b>18</b>	<5	<5	<5	†	<b>7</b>	*	8	<5	<b>14</b>
Barnstable	44	54	62	59	<b>219</b>	63	48	90	44	<b>245</b>	26	14	16	<b>56</b>
Barre	†	<5	<5	<5	<b>8</b>	6	<5	<5	<5	<b>13</b>	*	<5	8	<b>16</b>
Becket	†	<5	†	†	<b>&lt;5</b>	<5	<5	†	<5	<b>6</b>	†	†	<5	<b>&lt;5</b>
Bedford	6	8	9	5	<b>28</b>	*	8	8	<5	<b>23</b>	6	8	5	<b>19</b>
Belchertown	<5	†	†	<5	<b>&lt;5</b>	<5	7	*	6	<b>21</b>	6	7	6	<b>19</b>
Bellingham	7	11	11	13	<b>42</b>	11	14	6	9	<b>40</b>	*	†	<5	<b>11</b>
Belmont	10	11	7	5	<b>33</b>	<5	*	12	7	<b>27</b>	8	*	<5	<b>17</b>
Berkley	<5	<5	<5	<5	<b>11</b>	<5	<5	<5	<5	<b>9</b>	<5	<5	<5	<b>6</b>
Berlin	<5	<5	†	<5	<b>7</b>	<5	†	<5	†	<b>&lt;5</b>	<5	†	<5	<b>&lt;5</b>
Bernardston	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Beverly	24	31	24	31	<b>110</b>	25	35	23	23	<b>106</b>	23	19	32	<b>74</b>
Billerica	19	12	30	13	<b>74</b>	20	15	42	20	<b>97</b>	32	17	16	<b>65</b>
Blackstone	<5	<5	<5	<5	<b>7</b>	<5	9	12	*	<b>30</b>	*	10	<5	<b>20</b>
Blandford	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Bolton	<5	<5	<5	<5	<b>7</b>	<5	†	<5	†	<b>&lt;5</b>	<5	†	<5	<b>&lt;5</b>
Boston	423	674	706	434	<b>2237</b>	425	635	892	687	<b>2639</b>	601	683	750	<b>2034</b>

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City/Town	<u>2016</u>					<u>2017</u>					<u>2018</u>			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Bourne	18	28	32	12	<b>90</b>	15	30	17	22	<b>84</b>	5	16	20	<b>41</b>
Boxborough	<5	<5	5	7	<b>18</b>	†	<5	<5	<5	<b>7</b>	†	†	†	†
Boxford	†	<5	<5	<5	<b>7</b>	<5	<5	†	†	<5	<5	<5	<5	<5
Boylston	†	<5	6	<5	<b>9</b>	†	†	<5	†	<5	†	<5	†	<5
Braintree	23	33	28	43	<b>127</b>	25	35	39	16	<b>115</b>	6	<5	<5	<b>13</b>
Brewster	<5	<5	†	<5	<b>6</b>	†	7	<5	<5	<b>12</b>	<5	<5	5	<b>9</b>
Bridgewater	<5	6	†	<5	<b>9</b>	<5	<5	<5	<5	<b>8</b>	†	<5	*	<b>11</b>
Brimfield	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Brockton	191	261	256	180	<b>888</b>	186	164	253	89	<b>692</b>	17	49	37	<b>103</b>
Brookfield	†	<5	†	<5	<5	<5	<5	<5	<5	<b>7</b>	†	<5	<5	<5
Brookline	9	7	6	11	<b>33</b>	12	18	10	13	<b>53</b>	9	10	12	<b>31</b>
Buckland	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Burlington	*	<5	14	11	<b>33</b>	9	13	21	15	<b>58</b>	9	10	14	<b>33</b>
Cambridge	93	162	128	94	<b>477</b>	81	92	107	73	<b>353</b>	72	99	84	<b>255</b>
Canton	<5	13	*	10	<b>34</b>	7	7	9	14	<b>37</b>	7	9	8	<b>24</b>
Carlisle	†	†	†	†	†	†	†	5	†	<b>5</b>	†	<5	†	<5
Carver	13	12	15	13	<b>53</b>	11	12	11	9	<b>43</b>	<5	<5	11	<b>18</b>
Charlemont	†	†	†	†	†	†	†	†	†	†	<5	†	†	<5
Charlton	<5	†	†	<5	<5	<5	<5	<5	<5	<b>11</b>	<5	*	†	<b>7</b>
Chatham	<5	<5	<5	<5	<b>7</b>	5	<5	<5	<5	<b>11</b>	<5	<5	<5	<b>7</b>
Chelmsford	19	17	11	10	<b>57</b>	19	12	13	12	<b>56</b>	19	15	15	<b>49</b>
Chelsea	59	73	84	42	<b>258</b>	49	83	91	43	<b>266</b>	69	70	72	<b>211</b>
Cheshire	<5	†	<5	<5	<5	<5	<5	†	†	<5	<5	†	<5	<b>5</b>
Chester	<5	<5	†	†	<5	<5	†	<5	†	<5	<5	†	†	<5
Chesterfield	†	†	†	†	†	†	†	<5	†	<5	†	<5	†	<5
Chicopee	78	61	49	54	<b>242</b>	46	59	66	76	<b>247</b>	81	111	62	<b>254</b>
Chilmark	<5	†	<5	†	<5	†	†	†	<5	<5	<5	†	<5	<5
Clarksburg	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Clinton	<5	13	*	28	<b>55</b>	6	12	14	17	<b>49</b>	9	19	10	<b>38</b>
Cohasset	†	†	<5	<5	<b>5</b>	†	<5	<5	<5	<b>9</b>	†	†	<5	<5
Colrain	†	†	†	†	†	†	†	†	†	†	<5	†	<5	<5
Concord	<5	7	<5	<5	<b>18</b>	<5	<5	<5	<5	<b>9</b>	<5	5	<5	<b>11</b>
Conway	<5	†	†	†	<5	†	†	†	†	†	†	†	†	†
Cumington	†	†	†	†	†	†	†	<5	†	<5	†	†	†	†
Dalton	6	<5	<5	<5	<b>12</b>	<5	†	<5	†	<b>6</b>	†	<5	<5	<b>7</b>
Danvers	30	45	39	22	<b>136</b>	30	41	36	35	<b>142</b>	44	41	26	<b>111</b>
Dartmouth	18	25	25	23	<b>91</b>	18	27	21	29	<b>95</b>	34	24	31	<b>89</b>

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City/Town	<u>2016</u>					<u>2017</u>					<u>2018</u>			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Dedham	13	26	13	5	<b>57</b>	16	15	21	15	<b>67</b>	*	21	<5	<b>38</b>
Deerfield	<5	<5	†	†	<5	†	<5	†	<5	<b>7</b>	†	<5	<5	<5
Dennis	<5	<5	9	7	<b>18</b>	11	11	20	16	<b>58</b>	7	14	10	<b>31</b>
Dighton	<5	*	†	†	<b>7</b>	<5	<5	†	†	<5	†	<5	†	<5
Douglas	<5	<5	†	†	<b>6</b>	†	†	†	<5	<5	<5	<5	<5	<b>9</b>
Dover	†	†	†	†	†	†	†	<5	†	<5	<5	<5	<5	<b>5</b>
Dracut	16	10	22	14	<b>62</b>	11	17	26	13	<b>67</b>	28	25	18	<b>71</b>
Dudley	†	<5	9	*	<b>19</b>	<5	7	*	7	<b>23</b>	5	18	12	<b>35</b>
Dunstable	†	†	<5	†	<5	<5	†	<5	<5	<5	<5	†	†	<5
Duxbury	<5	6	<5	<5	<b>18</b>	<5	<5	<5	<5	<b>10</b>	<5	<5	<5	<b>6</b>
East Bridgewater	6	15	9	7	<b>37</b>	*	6	<5	9	<b>24</b>	6	5	15	<b>26</b>
East Brookfield	†	†	†	<5	<5	†	†	†	†	†	†	<5	<5	<5
East Longmeadow	<5	8	*	9	<b>23</b>	7	*	<5	6	<b>20</b>	*	<5	8	<b>18</b>
Eastham	<5	<5	<5	<5	<b>9</b>	<5	<5	<5	†	<b>8</b>	<5	<5	<5	<b>5</b>
Easthampton	7	7	7	7	<b>28</b>	<5	5	10	<5	<b>23</b>	7	12	7	<b>26</b>
Easton	<5	<5	5	†	<b>9</b>	<5	<5	6	13	<b>22</b>	11	12	9	<b>32</b>
Edgartown	<5	<5	<5	<5	<b>7</b>	<5	<5	<5	†	<b>5</b>	†	†	<5	<5
Egremont	†	†	<5	†	<5	†	†	†	†	†	†	†	†	†
Erving	†	†	†	<5	<5	<5	†	†	<5	<5	†	<5	†	<5
Essex	<5	<5	†	<5	<b>5</b>	<5	<5	<5	<5	<b>5</b>	<5	†	<5	<5
Everett	36	57	49	41	<b>183</b>	39	43	49	39	<b>170</b>	37	40	27	<b>104</b>
Fairhaven	26	24	19	15	<b>84</b>	11	13	11	12	<b>47</b>	12	19	12	<b>43</b>
Fall River	151	156	299	228	<b>834</b>	195	169	247	248	<b>859</b>	165	258	370	<b>793</b>
Falmouth	23	55	46	45	<b>169</b>	40	48	29	34	<b>151</b>	36	35	30	<b>101</b>
Fitchburg	70	80	113	90	<b>353</b>	75	80	105	81	<b>341</b>	66	78	82	<b>226</b>
Florida	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Foxborough	<5	<5	12	17	<b>35</b>	11	7	9	7	<b>34</b>	<5	*	10	<b>20</b>
Framingham	32	60	66	55	<b>213</b>	44	34	48	54	<b>180</b>	39	58	49	<b>146</b>
Franklin	5	17	16	6	<b>44</b>	16	15	*	<5	<b>46</b>	10	9	5	<b>24</b>
Freetown	*	<5	7	8	<b>24</b>	<5	<5	<5	<5	<b>11</b>	<5	8	<5	<b>14</b>
Gardner	14	28	24	12	<b>78</b>	22	13	20	13	<b>68</b>	11	23	29	<b>63</b>
Georgetown	<5	<5	<5	<5	<b>11</b>	<5	<5	†	<5	<b>7</b>	*	<5	†	<b>9</b>
Gill	<5	<5	†	<5	<5	†	†	†	†	†	†	<5	<5	<b>6</b>
Gloucester	39	33	29	15	<b>116</b>	17	27	32	30	<b>106</b>	27	29	32	<b>88</b>
Goshen	†	†	<5	†	<5	†	†	†	†	†	†	†	†	†

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City/Town	<u>2016</u>					<u>2017</u>					<u>2018</u>			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Gosnold	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Grafton	<5	<5	<5	5	15	*	7	10	<5	25	<5	6	<5	10
Granby	<5	5	<5	<5	9	<5	†	<5	8	13	*	6	<5	14
Granville	<5	†	†	†	<5	†	†	†	†	†	†	†	†	†
Great Barrington	<5	<5	<5	7	15	6	<5	<5	6	19	<5	<5	5	10
Greenfield	10	8	23	9	50	11	15	20	7	53	13	10	22	45
Groton	<5	†	†	<5	6	†	<5	†	†	<5	<5	<5	†	5
Groveland	<5	<5	<5	<5	6	<5	<5	†	<5	7	†	<5	<5	<5
Hadley	7	<5	*	5	19	<5	<5	7	<5	15	<5	<5	<5	9
Halifax	10	22	<5	*	45	*	<5	7	11	25	8	<5	<5	15
Hamilton	<5	<5	†	†	<5	<5	<5	<5	<5	6	†	<5	†	<5
Hampden	†	<5	†	<5	<5	<5	<5	<5	†	6	5	<5	<5	10
Hancock	†	†	†	†	†	†	<5	†	†	<5	†	†	†	†
Hanover	6	*	<5	6	18	<5	5	5	<5	17	<5	5	<5	8
Hanson	8	6	9	5	28	<5	9	<5	<5	21	10	<5	*	16
Hardwick	<5	†	†	<5	<5	<5	†	†	†	<5	<5	<5	<5	<5
Harvard	<5	†	†	<5	<5	<5	†	†	<5	<5	†	†	†	†
Harwich	<5	7	6	*	19	11	6	11	8	36	*	8	<5	18
Hatfield	<5	†	†	<5	<5	†	<5	<5	†	6	<5	†	†	<5
Haverhill	92	90	77	105	364	87	85	121	76	369	75	82	74	231
Hawley	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Heath	†	†	†	†	†	<5	†	†	<5	<5	†	†	†	†
Hingham	<5	<5	<5	14	25	<5	<5	5	<5	14	<5	<5	<5	7
Hinsdale	†	<5	†	†	<5	†	†	†	†	†	†	<5	†	<5
Holbrook	16	17	21	18	72	17	18	17	9	61	8	12	11	31
Holden	<5	<5	5	<5	13	<5	<5	5	<5	11	<5	<5	<5	6
Holland	†	†	†	†	†	†	†	<5	†	<5	<5	<5	†	<5
Holliston	†	†	†	†	†	<5	<5	<5	5	14	<5	<5	†	<5
Holyoke	79	86	62	74	301	55	49	65	57	226	81	159	78	318
Hopedale	†	†	†	<5	<5	<5	<5	<5	<5	7	<5	<5	†	7
Hopkinton	<5	<5	<5	†	10	<5	6	<5	<5	13	*	<5	5	11
Hubbardston	†	<5	<5	†	6	<5	<5	<5	†	7	<5	†	<5	<5
Hudson	11	*	13	<5	36	5	6	7	9	27	6	9	8	23
Hull	11	*	<5	†	18	<5	<5	<5	†	8	<5	<5	6	8
Huntington	†	†	<5	†	<5	†	†	<5	†	<5	<5	†	†	<5
Ipswich	7	<5	6	*	22	8	7	<5	*	22	<5	<5	7	12

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City/Town	<u>2016</u>					<u>2017</u>					<u>2018</u>			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Kingston	6	<5	<5	9	<b>22</b>	6	*	9	<5	<b>24</b>	12	*	<5	<b>23</b>
Lakeville	<5	*	31	14	<b>56</b>	21	15	22	17	<b>75</b>	5	5	10	<b>20</b>
Lancaster	<5	<5	<5	<5	<b>8</b>	†	<5	<5	<5	<b>6</b>	<5	†	<5	<b>5</b>
Lanesborough	†	†	†	6	<b>6</b>	†	<5	<5	†	<b>&lt;5</b>	†	<5	<5	<b>6</b>
Lawrence	197	100	170	179	<b>646</b>	151	178	242	207	<b>778</b>	180	169	183	<b>532</b>
Lee	<5	<5	<5	<5	<b>7</b>	<5	<5	<5	<5	<b>10</b>	<5	5	<5	<b>10</b>
Leicester	*	<5	6	10	<b>25</b>	9	6	6	8	<b>29</b>	6	*	<5	<b>15</b>
Lenox	†	<5	<5	<5	<b>6</b>	<5	5	<5	<5	<b>16</b>	†	<5	<5	<b>5</b>
Leominster	50	67	113	63	<b>293</b>	68	56	70	56	<b>250</b>	46	62	55	<b>163</b>
Leverett	†	†	†	†	<b>†</b>	<5	†	†	†	<b>&lt;5</b>	†	†	†	<b>†</b>
Lexington	<5	<5	8	<5	<b>16</b>	5	<5	5	<5	<b>16</b>	<5	<5	<5	<b>6</b>
Leyden	†	†	†	†	<b>†</b>	†	†	†	†	<b>†</b>	†	†	†	<b>†</b>
Lincoln	<5	†	<5	†	<b>&lt;5</b>	†	<5	<5	<5	<b>8</b>	†	†	†	<b>†</b>
Littleton	<5	6	<5	<5	<b>15</b>	<5	<5	<5	<5	<b>9</b>	†	†	<5	<b>&lt;5</b>
Longmeadow	6	<5	<5	<5	<b>13</b>	<5	<5	<5	<5	<b>10</b>	<5	<5	<5	<b>8</b>
Lowell	193	187	216	241	<b>837</b>	269	309	322	238	<b>1138</b>	320	290	337	<b>947</b>
Ludlow	11	14	6	13	<b>44</b>	10	6	13	10	<b>39</b>	9	18	6	<b>33</b>
Lunenburg	<5	7	9	<5	<b>23</b>	<5	†	<5	<5	<b>6</b>	<5	*	8	<b>18</b>
Lynn	97	113	137	123	<b>470</b>	117	147	172	150	<b>586</b>	117	162	202	<b>481</b>
Lynnfield	<5	<5	<5	<5	<b>9</b>	5	<5	<5	<5	<b>11</b>	<5	<5	<5	<b>9</b>
Malden	37	61	62	42	<b>202</b>	31	55	76	42	<b>204</b>	52	50	55	<b>157</b>
Manchester	†	<5	<5	†	<b>5</b>	<5	<5	†	<5	<b>6</b>	†	†	†	<b>†</b>
Mansfield	<5	9	10	*	<b>28</b>	7	10	6	17	<b>40</b>	8	12	7	<b>27</b>
Marblehead	5	8	15	8	<b>36</b>	9	<5	*	10	<b>28</b>	<5	*	9	<b>17</b>
Marion	<5	<5	<5	<5	<b>6</b>	<5	<5	<5	<5	<b>9</b>	<5	†	<5	<b>&lt;5</b>
Marlborough	21	13	19	13	<b>66</b>	5	10	19	17	<b>51</b>	20	12	19	<b>51</b>
Marshfield	8	16	12	7	<b>43</b>	8	7	12	16	<b>43</b>	8	<5	<5	<b>13</b>
Mashpee	<5	12	17	*	<b>42</b>	16	*	<5	10	<b>35</b>	8	12	9	<b>29</b>
Mattapoisett	<5	7	<5	<5	<b>13</b>	<5	<5	6	5	<b>15</b>	*	<5	10	<b>19</b>
Maynard	<5	<5	5	<5	<b>12</b>	9	9	<5	<5	<b>23</b>	<5	<5	<5	<b>6</b>
Medfield	<5	<5	<5	<5	<b>8</b>	5	<5	<5	<5	<b>10</b>	†	<5	<5	<b>&lt;5</b>
Medford	41	42	34	21	<b>138</b>	14	24	27	27	<b>92</b>	18	19	34	<b>71</b>
Medway	<5	<5	5	8	<b>19</b>	*	8	17	<5	<b>35</b>	8	<5	*	<b>18</b>
Melrose	16	17	17	9	<b>59</b>	*	<5	15	7	<b>33</b>	*	9	<5	<b>22</b>
Mendon	†	†	†	<5	<b>&lt;5</b>	<5	<5	†	<5	<b>7</b>	<5	†	<5	<b>&lt;5</b>
Merrimac	<5	†	<5	<5	<b>5</b>	<5	<5	7	<5	<b>15</b>	*	†	<5	<b>8</b>
Methuen	47	53	62	51	<b>213</b>	28	49	60	55	<b>192</b>	34	24	11	<b>69</b>

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	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Middleborough	10	20	5	†	<b>35</b>	<5	<5	<5	<5	<b>9</b>	<5	<5	†	<5
Middlefield	†	†	<5	†	<5	†	<5	†	†	<5	†	†	†	†
Middleton	<5	*	5	†	<b>12</b>	<5	<5	6	7	<b>19</b>	13	<5	*	<b>23</b>
Milford	6	14	23	13	<b>56</b>	13	24	12	16	<b>65</b>	19	12	9	<b>40</b>
Millbury	7	19	17	8	<b>51</b>	8	12	10	14	<b>44</b>	8	13	11	<b>32</b>
Millis	<5	5	<5	8	<b>18</b>	6	<5	5	<5	<b>15</b>	*	†	<5	<b>11</b>
Millville	<5	<5	†	<5	<b>7</b>	†	†	<5	<5	<b>5</b>	<5	<5	†	<5
Milton	7	12	9	8	<b>36</b>	9	9	9	5	<b>32</b>	8	<5	*	<b>18</b>
Monroe	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Monson	<5	<5	5	<5	<b>12</b>	<5	<5	6	<5	<b>14</b>	<5	<5	<5	<b>9</b>
Montague	*	10	8	<5	<b>29</b>	6	*	8	<5	<b>23</b>	<5	10	*	<b>18</b>
Monterey	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Montgomery	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Mount Washington	†	†	†	†	†	†	†	†	†	†	†	†	<5	<5
Nahant	<5	<5	†	<5	<b>6</b>	†	<5	<5	†	<b>6</b>	<5	<5	†	<5
Nantucket	6	<5	9	<5	<b>18</b>	<5	<5	<5	<5	<b>10</b>	<5	<5	5	<b>9</b>
Natick	6	9	8	10	<b>33</b>	7	6	8	9	<b>30</b>	8	5	†	<b>13</b>
Needham	<5	<5	<5	6	<b>15</b>	<5	†	<5	<5	<b>7</b>	<5	<5	<5	<b>8</b>
New Ashford	†	†	†	†	†	†	†	†	†	†	†	†	†	†
New Bedford	116	153	221	216	<b>706</b>	118	199	234	129	<b>680</b>	141	249	189	<b>579</b>
New Braintree	†	†	†	<5	<5	†	<5	†	†	<5	†	†	<5	<5
New Marlborough	†	†	†	†	†	†	<5	†	†	<5	†	†	<5	<5
New Salem	†	†	†	†	†	†	<5	†	†	<5	†	†	†	†
Newbury	<5	†	†	†	<5	<5	<5	†	<5	<b>6</b>	†	<5	<5	<5
Newburyport	<5	9	<5	11	<b>24</b>	<5	<5	8	<5	<b>16</b>	<5	5	<5	<b>13</b>
Newton	11	13	15	16	<b>55</b>	17	16	15	17	<b>65</b>	18	13	12	<b>43</b>
Norfolk	7	<5	<5	<5	<b>18</b>	<5	<5	<5	<5	<b>6</b>	<5	<5	<5	<b>5</b>
North Adams	11	27	22	14	<b>74</b>	9	9	17	13	<b>48</b>	12	13	26	<b>51</b>
North Andover	12	11	19	15	<b>57</b>	19	12	16	24	<b>71</b>	13	7	12	<b>32</b>
North Attleboro	13	21	18	16	<b>68</b>	10	25	21	22	<b>78</b>	21	18	14	<b>53</b>
North Brookfield	†	†	<5	<5	<b>5</b>	†	†	†	<5	<5	<5	†	†	<5
North Reading	5	<5	9	<5	<b>21</b>	<5	9	<5	<5	<b>17</b>	<5	7	<5	<b>14</b>
Northampton	26	*	<5	22	<b>71</b>	25	20	16	20	<b>81</b>	15	30	20	<b>65</b>
Northborough	7	<5	10	<5	<b>24</b>	<5	<5	6	<5	<b>12</b>	<5	6	<5	<b>11</b>



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	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Northbridge	*	7	7	<5	<b>22</b>	<5	*	9	6	<b>25</b>	†	†	<5	<5
Northfield	†	†	†	†	†	†	†	<5	<5	<5	<5	<5	†	<5
Norton	†	9	6	11	<b>26</b>	9	<5	9	*	<b>28</b>	5	8	5	<b>18</b>
Norwell	5	7	<5	<5	<b>19</b>	<5	7	<5	5	<b>19</b>	<5	5	<5	<b>11</b>
Norwood	<5	†	<5	11	<b>18</b>	13	13	15	12	<b>53</b>	8	12	15	<b>35</b>
Oak Bluffs	5	<5	5	<5	<b>14</b>	<5	†	<5	<5	<b>5</b>	<5	†	†	<5
Oakham	†	<5	<5	†	<5	<5	†	<5	†	<5	<5	†	†	<5
Orange	<5	<5	<5	6	<b>10</b>	8	<5	<5	<5	<b>18</b>	<5	11	*	<b>23</b>
Orleans	†	†	†	†	†	5	<5	<5	†	<b>9</b>	<5	<5	<5	<b>9</b>
Otis	†	†	†	†	†	†	†	<5	†	<5	†	†	†	†
Oxford	*	10	22	<5	<b>40</b>	11	*	<5	11	<b>34</b>	<5	14	*	<b>29</b>
Palmer	†	<5	†	<5	<5	<5	8	*	9	<b>28</b>	8	15	13	<b>36</b>
Paxton	<5	<5	<5	<5	<b>6</b>	<5	<5	<5	†	<b>5</b>	<5	<5	<5	<b>7</b>
Peabody	34	44	42	43	<b>163</b>	34	37	51	41	<b>163</b>	44	56	38	<b>138</b>
Pelham	†	†	†	†	†	†	†	†	†	†	†	†	<5	<5
Pembroke	9	9	8	17	<b>43</b>	12	8	8	5	<b>33</b>	*	7	<5	<b>15</b>
Pepperell	<5	<5	9	<5	<b>20</b>	<5	†	7	<5	<b>14</b>	7	<5	<5	<b>11</b>
Peru	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Petersham	†	<5	†	<5	<5	†	†	†	†	†	†	†	†	†
Phillipston	†	†	<5	†	<5	†	†	†	†	†	†	†	†	†
Pittsfield	38	40	30	40	<b>148</b>	35	29	57	38	<b>159</b>	33	61	52	<b>146</b>
Plainfield	†	†	†	†	†	†	<5	<5	†	<5	<5	†	<5	<b>5</b>
Plainville	<5	5	<5	11	<b>23</b>	7	*	<5	6	<b>23</b>	<5	<5	5	<b>12</b>
Plymouth	38	60	49	43	<b>190</b>	50	58	69	42	<b>219</b>	<5	*	†	<b>11</b>
Plympton	†	<5	<5	<5	<b>6</b>	<5	<5	†	†	<5	†	<5	<5	<5
Princeton	†	†	†	†	†	†	<5	<5	<5	<b>5</b>	<5	<5	†	<5
Provincetown	<5	<5	<5	<5	<b>11</b>	<5	<5	<5	†	<b>9</b>	†	<5	*	<b>18</b>
Quincy	57	123	131	122	<b>433</b>	89	101	164	41	<b>395</b>	20	40	33	<b>93</b>
Randolph	30	30	16	24	<b>100</b>	20	13	21	24	<b>78</b>	10	9	14	<b>33</b>
Raynham	6	6	7	13	<b>32</b>	6	10	12	9	<b>37</b>	13	12	10	<b>35</b>
Reading	6	6	7	7	<b>26</b>	<5	5	<5	<5	<b>13</b>	<5	<5	<5	<b>5</b>
Rehoboth	†	†	†	†	†	<5	<5	<5	<5	<b>8</b>	†	†	<5	<5
Revere	52	81	92	76	<b>301</b>	52	69	82	54	<b>257</b>	63	69	70	<b>202</b>
Richmond	†	†	†	†	†	†	†	†	†	†	†	<5	<5	<5
Rochester	<5	<5	<5	<5	<b>8</b>	<5	†	<5	<5	<b>7</b>	<5	<5	†	<5
Rockland	42	28	24	22	<b>116</b>	17	19	23	20	<b>79</b>	17	16	13	<b>46</b>
Rockport	†	†	<5	<5	<b>6</b>	<5	*	†	6	<b>13</b>	†	†	<5	<5

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	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Rowe	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Rowley	<5	<5	<5	<5	8	†	<5	†	†	<5	†	<5	<5	<5
Royalston	<5	<5	<5	†	<5	<5	†	†	<5	<5	<5	<5	†	<5
Russell	†	†	†	<5	<5	†	<5	†	†	<5	<5	<5	†	<5
Rutland	†	<5	<5	5	10	5	<5	<5	<5	13	<5	<5	†	<5
Salem	47	62	78	60	247	54	56	78	44	232	39	51	52	142
Salisbury	25	33	33	17	108	19	25	34	29	107	17	22	22	61
Sandisfield	†	<5	†	†	<5	<5	†	†	†	<5	†	†	†	†
Sandwich	†	†	8	7	15	14	9	5	11	39	10	12	9	31
Saugus	26	37	38	28	129	25	31	32	28	116	30	27	21	78
Savoy	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Scituate	<5	5	9	<5	21	<5	<5	6	<5	13	<5	<5	5	10
Seekonk	<5	7	10	*	26	<5	10	8	*	29	<5	<5	5	10
Sharon	†	<5	8	<5	12	<5	<5	<5	7	16	5	<5	<5	12
Sheffield	<5	†	<5	†	<5	†	7	<5	<5	12	†	†	<5	<5
Shelburne	<5	†	†	<5	<5	<5	†	<5	†	<5	†	<5	<5	<5
Sherborn	†	†	†	<5	<5	†	†	†	<5	<5	<5	†	<5	<5
Shirley	<5	<5	9	†	13	*	<5	7	5	21	6	8	6	20
Shrewsbury	10	19	11	11	51	7	16	13	18	54	24	25	14	63
Shutesbury	†	†	†	†	†	†	†	†	†	†	<5	†	<5	<5
Somerset	13	17	11	9	50	8	10	14	15	47	12	14	5	31
Somerville	39	52	56	50	197	27	39	43	24	133	30	31	35	96
South Hadley	†	<5	†	<5	<5	†	†	<5	<5	<5	<5	*	11	25
Southampton	†	<5	<5	<5	6	<5	<5	†	<5	<5	†	<5	<5	7
Southborough	<5	<5	<5	<5	6	†	†	<5	<5	5	<5	<5	6	8
Southbridge	11	26	22	37	96	8	14	20	7	49	8	20	24	52
Southwick	11	11	7	5	34	8	<5	<5	8	23	5	10	5	20
Spencer	<5	<5	<5	<5	12	<5	*	7	10	24	<5	12	*	22
Springfield	182	198	164	177	721	115	186	212	161	674	184	278	262	724
Sterling	<5	6	5	<5	13	<5	<5	<5	<5	8	5	5	9	19
Stockbridge	†	†	†	†	†	<5	†	†	<5	<5	†	<5	†	<5
Stoneham	6	23	11	12	52	9	6	18	6	39	12	10	7	29
Stoughton	10	21	12	11	54	14	16	16	13	59	25	15	22	62
Stow	†	<5	<5	†	5	<5	6	<5	<5	13	<5	†	<5	5
Sturbridge	6	11	*	<5	25	<5	<5	<5	8	17	<5	8	*	16
Sudbury	†	<5	†	<5	5	<5	†	<5	<5	5	<5	<5	<5	6
Sunderland	<5	<5	<5	<5	6	†	<5	†	†	<5	<5	†	<5	<5

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Sutton	<5	<5	<5	<5	<b>12</b>	<5	<5	<5	<5	<b>12</b>	6	<5	<5	<b>10</b>
Swampscott	5	9	5	6	<b>25</b>	<5	<5	5	<5	<b>15</b>	<5	<5	<5	<b>9</b>
Swansea	8	13	13	15	<b>49</b>	10	<5	17	<5	<b>34</b>	*	13	<5	<b>25</b>
Taunton	75	117	73	59	<b>324</b>	39	75	90	41	<b>245</b>	*	6	<5	<b>12</b>
Templeton	5	<5	5	<5	<b>13</b>	5	<5	6	<5	<b>15</b>	<5	<5	<5	<b>11</b>
Tewksbury	12	24	21	24	<b>81</b>	37	41	29	20	<b>127</b>	47	26	29	<b>102</b>
Tisbury	†	<5	†	<5	<5	<5	<5	<5	†	<b>7</b>	†	†	<5	<5
Tolland	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Topsfield	†	†	5	†	<b>5</b>	<5	6	†	<5	<b>8</b>	<5	†	†	<5
Townsend	6	<5	<5	<5	<b>15</b>	<5	<5	†	<5	<b>10</b>	*	9	<5	<b>16</b>
Truro	†	<5	†	†	<5	†	†	†	<5	<5	<5	<5	<5	<5
Tyngsborough	<5	<5	6	7	<b>19</b>	<5	*	6	6	<b>19</b>	*	10	<5	<b>24</b>
Tyringham	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Upton	<5	<5	<5	<5	<b>6</b>	†	5	<5	<5	<b>10</b>	<5	†	<5	<5
Uxbridge	9	*	11	<5	<b>29</b>	*	<5	7	6	<b>22</b>	<5	11	<5	<b>19</b>
Wakefield	10	11	18	15	<b>54</b>	10	17	18	13	<b>58</b>	9	18	11	<b>38</b>
Wales	†	†	†	†	†	†	†	<5	<5	<5	<5	<5	<5	<b>5</b>
Walpole	6	10	9	12	<b>37</b>	9	*	8	<5	<b>29</b>	10	17	11	<b>38</b>
Waltham	38	36	40	30	<b>144</b>	20	35	45	25	<b>125</b>	34	30	23	<b>87</b>
Ware	9	*	5	<5	<b>23</b>	<5	6	11	<5	<b>22</b>	8	10	9	<b>27</b>
Wareham	28	33	40	32	<b>133</b>	39	36	47	50	<b>172</b>	34	41	49	<b>124</b>
Warren	5	<5	†	<5	<b>9</b>	6	<5	<5	†	<b>13</b>	<5	6	<5	<b>10</b>
Warwick	†	†	†	†	†	†	<5	†	†	<5	†	†	<5	<5
Washington	†	†	†	†	†	†	†	†	<5	<5	†	†	†	†
Watertown	28	23	7	22	<b>80</b>	5	11	15	13	<b>44</b>	15	18	20	<b>53</b>
Wayland	†	<5	<5	<5	<5	<5	<5	<5	†	<b>5</b>	<5	†	†	<5
Webster	16	14	20	22	<b>72</b>	13	18	23	17	<b>71</b>	14	28	30	<b>72</b>
Wellesley	<5	<5	<5	6	<b>12</b>	<5	<5	<5	6	<b>14</b>	<5	<5	7	<b>12</b>
Wellfleet	<5	<5	<5	<5	<b>9</b>	†	5	<5	<5	<b>10</b>	†	<5	<5	<5
Wendell	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Wenham	<5	<5	†	†	<5	<5	†	<5	<5	<5	†	<5	†	<5
West Boylston	<5	<5	<5	5	<b>12</b>	6	<5	<5	6	<b>16</b>	5	5	7	<b>17</b>
West Bridgewater	7	<5	<5	†	<b>15</b>	<5	5	<5	10	<b>21</b>	<5	7	<5	<b>12</b>
West Brookfield	†	†	†	†	†	<5	<5	<5	5	<b>10</b>	<5	<5	<5	<b>8</b>
West Newbury	<5	<5	†	<5	<b>5</b>	†	†	<5	†	<5	<5	<5	†	<5

The 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. \* indicates complementary suppression of the next smallest count was applied if only one count was <5.

City/Town	<u>2016</u>					<u>2017</u>					<u>2018</u>			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
West Springfield	30	29	19	29	<b>107</b>	11	15	40	23	<b>89</b>	23	35	23	<b>81</b>
West Stockbridge	†	†	†	†	†	<5	†	†	†	<5	†	<5	†	<5
West Tisbury	<5	<5	†	†	<5	†	<5	<5	†	<5	†	†	†	†
Westborough	14	26	25	22	<b>87</b>	14	26	15	11	<b>66</b>	12	13	8	<b>33</b>
Westfield	28	15	16	21	<b>80</b>	11	14	15	21	<b>61</b>	27	27	20	<b>74</b>
Westford	8	<5	<5	5	<b>20</b>	5	9	5	6	<b>25</b>	*	10	<5	<b>20</b>
Westhampton	†	†	†	†	†	<5	†	†	†	<5	<5	†	†	<5
Westminster	<5	<5	†	<5	<b>7</b>	<5	5	<5	8	<b>19</b>	*	<5	5	<b>13</b>
Weston	<5	<5	†	<5	<b>5</b>	9	<5	<5	†	<b>11</b>	<5	<5	†	<5
Westport	*	9	<5	10	<b>28</b>	7	8	6	5	<b>26</b>	9	9	7	<b>25</b>
Westwood	<5	<5	<5	<5	<b>14</b>	<5	6	<5	5	<b>13</b>	†	<5	<5	<5
Weymouth	35	61	81	37	<b>214</b>	50	57	70	62	<b>239</b>	50	50	32	<b>132</b>
Whately	†	†	†	†	†	<5	<5	†	<5	<5	†	†	<5	<5
Whitman	7	7	10	18	<b>42</b>	9	6	19	9	<b>43</b>	13	5	9	<b>27</b>
Wilbraham	<5	7	<5	6	<b>17</b>	<5	6	*	5	<b>20</b>	6	6	8	<b>20</b>
Williamsburg	†	<5	†	†	<5	<5	<5	<5	†	<5	<5	†	†	<5
Williamstown	<5	<5	<5	<5	<b>9</b>	†	<5	<5	†	<5	<5	<5	†	<5
Wilmington	17	10	*	<5	<b>40</b>	6	11	16	20	<b>53</b>	19	12	7	<b>38</b>
Winchendon	<5	<5	6	6	<b>17</b>	†	5	5	6	<b>16</b>	7	8	6	<b>21</b>
Winchester	6	<5	<5	7	<b>18</b>	<5	†	<5	<5	<b>7</b>	<5	<5	<5	<b>7</b>
Windsor	†	†	†	<5	<5	†	†	†	†	†	†	†	†	†
Winthrop	13	18	21	8	<b>60</b>	<5	*	9	9	<b>30</b>	9	8	8	<b>25</b>
Woburn	42	38	36	28	<b>144</b>	43	36	45	28	<b>152</b>	31	37	26	<b>94</b>
Worcester	327	396	480	408	<b>1611</b>	262	361	448	432	<b>1503</b>	342	451	461	<b>1254</b>
Worthington	†	†	<5	†	<5	†	†	†	†	†	†	†	†	†
Wrentham	*	12	11	<5	<b>35</b>	6	6	7	6	<b>25</b>	<5	<5	<5	<b>8</b>
Yarmouth	15	31	20	26	<b>92</b>	16	29	35	17	<b>97</b>	10	19	15	<b>44</b>
Unknown	66	116	109	71	<b>362</b>	51	49	62	49	<b>211</b>	35	32	7	<b>74</b>
<b>Grand Total</b>	<b>4744</b>	<b>5956</b>	<b>6329</b>	<b>5393</b>	<b>22422</b>	<b>4632</b>	<b>5534</b>	<b>6823</b>	<b>5302</b>	<b>22291</b>	<b>4825</b>	<b>5735</b>	<b>5562</b>	<b>16122</b>

### **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.
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### **Source**

- Office of Emergency Medical Services, Bureau of Health Care Safety and Quality, MDPH