



MA Opioid-Related EMS Incidents 2013-2019

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. 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 7.2% per quarter from 2013 until 2016 and the number of all EMS incidents involving naloxone administration (Figure 2) increased on average 7.4% 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 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: 2013								
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	10	933	2,055	1,053	905	498	172	5,626
Female	8	635	1,138	630	529	299	217	3,456
Total	18	1,568	3,193	1,683	1,434	797	389	9,082

All Suspected Opioid Related Incidents: 2014								
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	(1-4)	1,514	3,591	1,695	1,347	699	254	9,100*
Female	(1-4)	937	1,708	882	792	355	261	4,935*
Total	6	2,451	5,299	2,577	2,139	1,054	515	14,041

*Total of non-suppressed cells

All Suspected Opioid Related Incidents: 2015								
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	(1-4)	1,761	4,848	2,610	1,839	910	299	12,267*
Female	8	974	2,397	1,186	932	485	306	6,288*
Total	†	2,735	7,245	3,796	2,771	1,395	605	18,555*

†Complementary suppression; *Total of non-suppressed cells

All Suspected Opioid Related Incidents: 2016								
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	5	1,814	6,065	3,426	2,347	1,332	419	15,408
Female	6	1,033	2,962	1,589	1,066	633	318	7,607
Total	11	2,847	9,027	5,015	3,413	1,965	737	23,026

All Suspected Opioid Related Incidents: 2017								
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	8	1,551	6,446	3,786	2,607	1,437	503	16,338
Female	10	997	3,018	1,820	1,146	759	379	8,129
Total	18	2,548	9,464	5,606	3,753	2,196	882	24,485

All Suspected Opioid Related Incidents: 2018								
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	(1-4)	1,445	6,025	4,132	2,732	1,564	564	16,462*
Female	(1-4)	729	2,993	1,830	1,079	770	376	7,777*
Total	(1-4)	2,174	9,018	5,962	3,811	2,334	940	24,239

*Total of non-suppressed cells

All Suspected Opioid Related Incidents: 2019								
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	(1-4)	937	5,161	3,958	2,689	1,576	548	14,869*
Female	(1-4)	563	2,542	1,826	1,087	652	394	7,064*
Total	(1-4)	1,500	7,703	5,784	3,776	2,228	942	21,933

*Total of non-suppressed cells

Figure 1: Percent of Opioid-Related Events Among All EMS Incidents, MA: 2013-2019

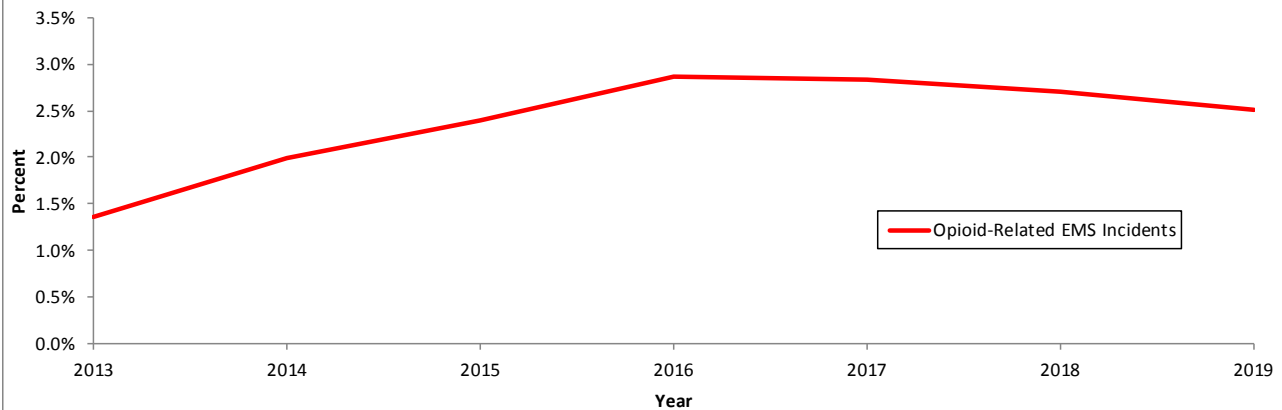
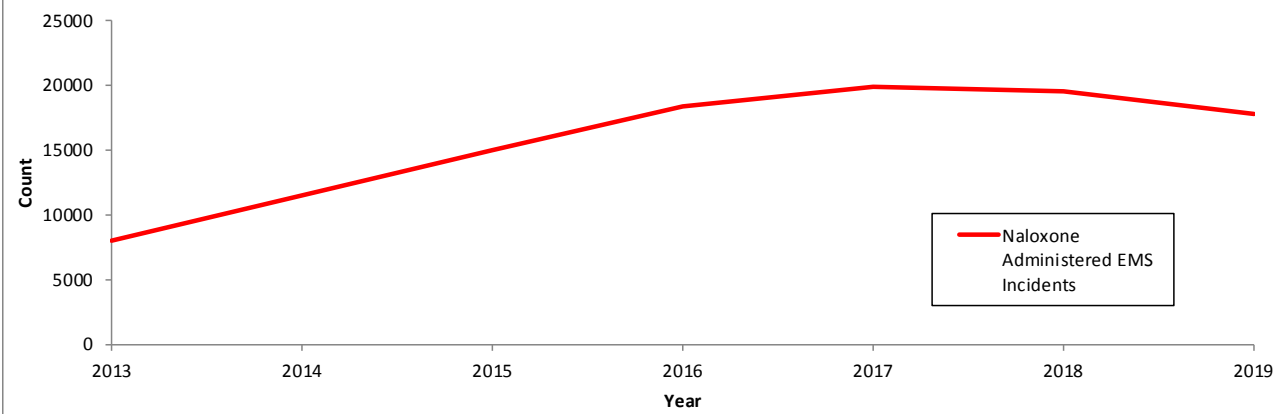


Figure 2: Count of All EMS Incidents Involving Naloxone Administration, MA: 2013-2019



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 between 1 and 4. (1-4) indicates the cell value was between 1 and 4.

City/Town	<u>2018</u>					<u>2019</u>				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Abington	7	9	5	8	29	*	9	9	(1-4)	30
Acton	8	†	(1-4)	(1-4)	15	(1-4)	(1-4)	(1-4)	6	14
Acushnet	7	(1-4)	(1-4)	(1-4)	16	†	6	(1-4)	(1-4)	9
Adams	11	(1-4)	*	11	33	6	(1-4)	(1-4)	(1-4)	16
Agawam	26	27	22	13	88	14	28	12	16	70
Alford	†	†	†	†	†	(1-4)	†	†	†	(1-4)
Amesbury	9	7	13	6	35	*	8	(1-4)	10	29
Amherst	11	7	7	12	37	*	6	(1-4)	16	31
Andover	9	6	15	12	42	10	12	12	9	43
Aquinnah	†	†	†	†	†	†	†	†	†	†
Arlington	(1-4)	13	14	*	37	12	9	7	7	35
Ashburnham	(1-4)	†	(1-4)	†	(1-4)	6	(1-4)	(1-4)	(1-4)	14
Ashby	(1-4)	(1-4)	(1-4)	†	7	(1-4)	(1-4)	(1-4)	(1-4)	10
Ashfield	†	†	(1-4)	†	(1-4)	†	†	†	†	†
Ashland	(1-4)	(1-4)	9	(1-4)	19	(1-4)	(1-4)	(1-4)	(1-4)	14
Athol	19	34	18	21	92	6	6	10	9	31
Attleboro	44	28	43	42	157	33	72	38	21	164
Auburn	8	16	7	7	38	8	8	6	6	28
Avon	†	5	(1-4)	(1-4)	12	(1-4)	(1-4)	(1-4)	(1-4)	7
Ayer	*	8	(1-4)	6	22	*	9	(1-4)	8	24
Barnstable	42	46	49	37	174	44	35	41	34	154
Barre	6	(1-4)	8	(1-4)	18	9	7	(1-4)	*	25
Becket	†	†	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)	†	(1-4)
Bedford	7	8	(1-4)	(1-4)	22	(1-4)	8	7	*	25
Belchertown	10	9	*	(1-4)	30	(1-4)	(1-4)	5	(1-4)	14
Bellingham	9	†	5	7	21	(1-4)	9	(1-4)	(1-4)	19
Belmont	8	9	(1-4)	(1-4)	23	8	8	(1-4)	(1-4)	22
Berkley	(1-4)	(1-4)	(1-4)	(1-4)	8	(1-4)	(1-4)	(1-4)	(1-4)	9
Berlin	(1-4)	†	(1-4)	†	(1-4)	†	†	(1-4)	(1-4)	(1-4)
Bernardston	†	†	†	†	†	†	†	†	†	†
Beverly	23	22	33	25	103	18	32	22	24	96
Billerica	33	25	18	17	93	18	19	9	12	58
Blackstone	*	10	(1-4)	7	27	(1-4)	7	(1-4)	(1-4)	15
Blandford	†	†	†	(1-4)	(1-4)	†	†	†	†	†
Bolton	(1-4)	†	(1-4)	†	(1-4)	†	†	(1-4)	(1-4)	(1-4)
Boston	795	929	933	706	3363	669	912	1033	840	3454
Bourne	(1-4)	*	19	18	57	10	18	13	11	52

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City/Town	<u>2018</u>					<u>2019</u>				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Boxborough	†	†	†	(1-4)	(1-4)	(1-4)	†	†	†	(1-4)
Boxford	(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)
Braintree	25	37	25	16	103	18	12	19	22	71
Brewster	(1-4)	(1-4)	5	(1-4)	13	(1-4)	(1-4)	(1-4)	(1-4)	8
Bridgewater	13	24	24	17	78	9	9	12	8	38
Brimfield	†	†	†	(1-4)	(1-4)	(1-4)	(1-4)	†	(1-4)	(1-4)
Brockton	186	229	233	179	827	159	167	151	136	613
Brookfield	†	(1-4)	(1-4)	(1-4)	5	(1-4)	†	(1-4)	(1-4)	5
Brookline	10	11	13	11	45	14	13	8	5	40
Buckland	†	†	†	†	†	†	†	†	†	†
Burlington	9	10	15	13	47	11	9	6	7	33
Cambridge	71	99	86	97	353	82	71	117	77	347
Canton	*	8	8	(1-4)	28	*	(1-4)	8	8	26
Carlisle	†	(1-4)	†	(1-4)	6	†	†	†	†	†
Carver	(1-4)	(1-4)	12	(1-4)	21	7	10	(1-4)	*	26
Charlemont	(1-4)	†	†	(1-4)	(1-4)	†	(1-4)	†	(1-4)	5
Charlton	(1-4)	5	(1-4)	(1-4)	13	(1-4)	5	(1-4)	(1-4)	10
Chatham	(1-4)	(1-4)	(1-4)	(1-4)	9	†	(1-4)	(1-4)	(1-4)	(1-4)
Chelmsford	17	14	12	14	57	6	13	10	11	40
Chelsea	72	72	73	41	258	37	52	68	57	214
Cheshire	(1-4)	†	(1-4)	(1-4)	5	†	†	(1-4)	(1-4)	(1-4)
Chester	(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	90	113	64	64	331	71	101	88	68	328
Chilmark	(1-4)	†	(1-4)	†	(1-4)	†	†	†	†	†
Clarksburg	†	†	†	†	†	†	†	†	†	†
Clinton	9	20	11	6	46	7	11	(1-4)	(1-4)	22
Cohasset	†	†	(1-4)	†	(1-4)	(1-4)	†	(1-4)	(1-4)	(1-4)
Colrain	(1-4)	†	(1-4)	(1-4)	(1-4)	†	(1-4)	†	(1-4)	(1-4)
Concord	(1-4)	5	(1-4)	†	11	(1-4)	†	*	5	12
Conway	†	†	†	(1-4)	(1-4)	†	†	†	†	†
Cummington	†	†	†	†	†	†	(1-4)	†	(1-4)	(1-4)
Dalton	†	(1-4)	(1-4)	5	13	7	(1-4)	(1-4)	(1-4)	13
Danvers	49	45	33	35	162	40	30	34	30	134
Dartmouth	33	26	32	33	124	35	39	29	38	141
Dedham	14	23	8	7	52	13	15	13	19	60
Deerfield	†	(1-4)	(1-4)	5	8	(1-4)	†	(1-4)	(1-4)	7

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	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Dennis	9	13	9	7	38	11	9	8	14	42
Dighton	(1-4)	(1-4)	†	†	(1-4)	(1-4)	†	(1-4)	†	(1-4)
Douglas	(1-4)	(1-4)	(1-4)	(1-4)	11	(1-4)	5	†	(1-4)	10
Dover	(1-4)	(1-4)	(1-4)	(1-4)	8	†	†	†	†	†
Dracut	22	19	12	20	73	5	28	16	14	63
Dudley	5	19	13	13	50	18	8	6	10	42
Dunstable	(1-4)	†	†	†	(1-4)	(1-4)	*	†	†	6
Duxbury	(1-4)	(1-4)	(1-4)	(1-4)	10	(1-4)	(1-4)	(1-4)	(1-4)	11
East Bridgewater	7	5	16	8	36	9	*	5	(1-4)	23
East Brookfield	†	(1-4)	(1-4)	†	(1-4)	†	(1-4)	†	(1-4)	(1-4)
East Longmeadow	*	(1-4)	9	7	25	8	8	8	8	32
Eastham	(1-4)	(1-4)	(1-4)	(1-4)	8	(1-4)	(1-4)	(1-4)	†	6
Easthampton	8	11	7	6	32	10	(1-4)	*	11	33
Easton	12	12	10	12	46	9	(1-4)	8	(1-4)	24
Edgartown	(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)
Essex	(1-4)	†	(1-4)	†	(1-4)	(1-4)	†	5	(1-4)	10
Everett	41	43	30	41	155	38	39	38	37	152
Fairhaven	13	20	12	11	56	6	12	16	8	42
Fall River	173	273	385	285	1116	200	265	272	204	941
Falmouth	35	35	32	35	137	41	33	32	32	138
Fitchburg	66	80	83	46	275	86	72	69	57	284
Florida	†	†	†	†	†	†	†	†	†	†
Foxborough	(1-4)	*	10	9	30	11	9	10	10	40
Framingham	42	62	50	50	204	43	65	46	45	199
Franklin	9	9	8	10	36	7	11	6	5	29
Freetown	(1-4)	7	(1-4)	(1-4)	16	(1-4)	(1-4)	(1-4)	(1-4)	7
Gardner	12	27	29	35	103	24	30	42	34	130
Georgetown	*	(1-4)	†	7	15	(1-4)	5	(1-4)	†	10
Gill	†	(1-4)	(1-4)	(1-4)	5	†	†	(1-4)	(1-4)	(1-4)
Gloucester	31	28	32	19	110	15	32	28	19	94
Goshen	†	†	†	†	†	†	(1-4)	†	†	(1-4)
Gosnold	†	†	†	†	†	†	†	†	†	†
Grafton	(1-4)	6	(1-4)	8	18	(1-4)	7	(1-4)	5	17
Granby	(1-4)	8	(1-4)	6	22	5	(1-4)	(1-4)	†	10

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City/Town	<u>2018</u>					<u>2019</u>				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Granville	†	†	†	†	†	(1-4)	†	(1-4)	(1-4)	(1-4)
Great Barrington	(1-4)	(1-4)	5	7	17	*	7	(1-4)	5	19
Greenfield	15	11	25	17	68	27	29	27	13	96
Groton	(1-4)	(1-4)	(1-4)	†	8	(1-4)	(1-4)	†	(1-4)	(1-4)
Groveland	†	(1-4)	(1-4)	(1-4)	6	†	(1-4)	(1-4)	†	(1-4)
Hadley	(1-4)	(1-4)	(1-4)	(1-4)	12	(1-4)	(1-4)	(1-4)	(1-4)	8
Halifax	7	5	(1-4)	(1-4)	19	(1-4)	(1-4)	(1-4)	(1-4)	15
Hamilton	†	(1-4)	†	(1-4)	(1-4)	(1-4)	†	(1-4)	(1-4)	(1-4)
Hampden	5	(1-4)	(1-4)	6	17	(1-4)	8	9	(1-4)	20
Hancock	†	†	†	†	†	†	†	†	†	†
Hanover	(1-4)	5	(1-4)	(1-4)	12	6	(1-4)	(1-4)	(1-4)	15
Hanson	11	(1-4)	(1-4)	5	21	5	(1-4)	(1-4)	(1-4)	13
Hardwick	(1-4)	(1-4)	(1-4)	(1-4)	7	(1-4)	(1-4)	(1-4)	(1-4)	6
Harvard	†	†	†	†	†	(1-4)	†	(1-4)	†	5
Harwich	6	9	(1-4)	(1-4)	23	5	(1-4)	5	(1-4)	14
Hatfield	(1-4)	(1-4)	†	(1-4)	(1-4)	†	(1-4)	(1-4)	†	(1-4)
Haverhill	80	86	77	83	326	59	58	73	67	257
Hawley	†	†	†	†	†	†	†	†	†	†
Heath	†	†	†	†	†	†	†	†	†	†
Hingham	6	(1-4)	(1-4)	5	15	5	†	(1-4)	(1-4)	9
Hinsdale	†	(1-4)	(1-4)	(1-4)	5	†	(1-4)	†	(1-4)	5
Holbrook	8	12	14	6	40	(1-4)	9	*	9	27
Holden	(1-4)	(1-4)	(1-4)	(1-4)	11	(1-4)	(1-4)	(1-4)	(1-4)	9
Holland	†	†	†	†	†	†	†	†	†	†
Holliston	(1-4)	(1-4)	†	(1-4)	6	(1-4)	9	(1-4)	(1-4)	17
Holyoke	89	169	109	92	459	115	135	161	150	561
Hopedale	(1-4)	(1-4)	†	(1-4)	9	(1-4)	7	(1-4)	(1-4)	14
Hopkinton	6	(1-4)	7	(1-4)	18	(1-4)	(1-4)	(1-4)	(1-4)	9
Hubbardston	(1-4)	†	(1-4)	6	8	(1-4)	†	(1-4)	†	(1-4)
Hudson	7	11	8	6	32	8	*	7	(1-4)	24
Hull	†	(1-4)	8	(1-4)	12	(1-4)	5	(1-4)	9	20
Huntington	†	†	†	†	†	†	†	(1-4)	(1-4)	(1-4)
Ipswich	(1-4)	(1-4)	10	(1-4)	17	(1-4)	(1-4)	5	(1-4)	11
Kingston	12	7	(1-4)	(1-4)	27	(1-4)	9	5	(1-4)	21
Lakeville	24	19	25	23	91	15	25	14	14	68
Lancaster	(1-4)	(1-4)	8	(1-4)	14	(1-4)	(1-4)	7	11	23
Lanesborough	†	(1-4)	(1-4)	(1-4)	9	(1-4)	(1-4)	(1-4)	(1-4)	6

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Lawrence	183	176	190	163	712	138	151	163	124	576
Lee	(1-4)	5	(1-4)	(1-4)	11	(1-4)	†	†	(1-4)	(1-4)
Leicester	6	5	(1-4)	(1-4)	19	7	7	6	6	26
Lenox	†	(1-4)	(1-4)	†	5	(1-4)	(1-4)	5	(1-4)	15
Leominster	46	64	56	72	238	50	56	32	12	150
Leverett	†	†	†	†	†	†	†	†	†	†
Lexington	(1-4)	(1-4)	(1-4)	(1-4)	7	(1-4)	(1-4)	(1-4)	(1-4)	12
Leyden	†	†	†	†	†	†	†	†	†	†
Lincoln	†	†	†	†	†	†	(1-4)	†	†	(1-4)
Littleton	†	†	(1-4)	(1-4)	(1-4)	(1-4)	5	(1-4)	†	8
Longmeadow	(1-4)	(1-4)	(1-4)	7	16	(1-4)	(1-4)	(1-4)	(1-4)	8
Lowell	270	250	284	290	1094	187	200	178	181	746
Ludlow	10	19	12	10	51	10	9	10	12	41
Lunenburg	(1-4)	*	9	8	27	(1-4)	(1-4)	6	(1-4)	14
Lynn	121	163	211	120	615	100	136	160	115	511
Lynnfield	5	(1-4)	(1-4)	8	18	(1-4)	(1-4)	(1-4)	(1-4)	9
Malden	54	51	57	46	208	27	57	53	40	177
Manchester	†	†	†	(1-4)	(1-4)	(1-4)	†	†	(1-4)	(1-4)
Mansfield	9	12	7	8	36	8	19	8	10	45
Marblehead	(1-4)	6	9	(1-4)	19	(1-4)	5	(1-4)	5	16
Marion	(1-4)	(1-4)	(1-4)	(1-4)	7	(1-4)	(1-4)	(1-4)	†	9
Marlborough	22	14	22	24	82	17	19	21	17	74
Marshfield	8	11	(1-4)	*	30	*	14	8	(1-4)	31
Mashpee	9	12	9	8	38	*	11	10	(1-4)	35
Mattapoisett	5	(1-4)	9	(1-4)	19	6	(1-4)	(1-4)	5	17
Maynard	(1-4)	(1-4)	(1-4)	(1-4)	8	(1-4)	(1-4)	†	†	5
Medfield	†	(1-4)	(1-4)	(1-4)	6	(1-4)	(1-4)	†	†	5
Medford	18	22	37	22	99	26	29	17	20	92
Medway	8	5	7	7	27	8	9	(1-4)	(1-4)	24
Melrose	9	6	5	5	25	(1-4)	7	9	(1-4)	22
Mendon	(1-4)	†	(1-4)	(1-4)	8	(1-4)	(1-4)	(1-4)	(1-4)	9
Merrimac	6	†	(1-4)	(1-4)	10	(1-4)	(1-4)	(1-4)	(1-4)	11
Methuen	39	42	56	43	180	44	48	37	18	147
Middleborough	(1-4)	(1-4)	†	(1-4)	(1-4)	†	(1-4)	(1-4)	(1-4)	5
Middlefield	†	†	†	†	†	†	†	†	†	†
Middleton	14	(1-4)	*	8	32	(1-4)	10	(1-4)	(1-4)	20
Milford	20	15	10	25	70	24	18	22	8	72
Millbury	8	15	13	11	47	9	8	8	12	37

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City/Town	<u>2018</u>					<u>2019</u>				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Millis	7	†	(1-4)	(1-4)	14	(1-4)	(1-4)	(1-4)	(1-4)	11
Millville	(1-4)	(1-4)	†	(1-4)	7	†	(1-4)	†	†	(1-4)
Milton	9	(1-4)	7	*	24	(1-4)	(1-4)	10	6	21
Monroe	†	†	†	†	†	†	†	†	†	†
Monson	(1-4)	(1-4)	(1-4)	(1-4)	12	(1-4)	(1-4)	6	(1-4)	15
Montague	(1-4)	11	8	*	28	(1-4)	*	15	12	40
Monterey	†	†	†	†	†	†	†	†	†	†
Montgomery	†	†	†	†	†	†	†	†	†	†
Mount Washington	†	†	†	†	†	†	†	†	†	†
Nahant	(1-4)	(1-4)	†	(1-4)	7	†	(1-4)	†	†	(1-4)
Nantucket	(1-4)	(1-4)	5	5	14	†	†	(1-4)	†	(1-4)
Natick	8	7	9	11	35	18	*	14	(1-4)	50
Needham	(1-4)	(1-4)	(1-4)	(1-4)	9	6	(1-4)	(1-4)	5	15
New Ashford	†	†	†	†	†	†	†	†	†	†
New Bedford	146	261	198	136	741	198	159	99	112	568
New Braintree	†	†	(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)
New Salem	†	†	†	†	†	†	†	†	(1-4)	(1-4)
Newbury	†	(1-4)	(1-4)	5	9	(1-4)	(1-4)	†	(1-4)	6
Newburyport	(1-4)	6	(1-4)	(1-4)	18	(1-4)	(1-4)	(1-4)	5	16
Newton	21	15	14	19	69	11	19	8	19	57
Norfolk	(1-4)	(1-4)	(1-4)	†	6	(1-4)	(1-4)	(1-4)	†	8
North Adams	18	26	30	13	87	27	26	12	23	88
North Andover	13	7	13	5	38	12	11	13	5	41
North Attleboro	21	19	15	18	73	9	18	22	23	72
North Brookfield	(1-4)	†	†	(1-4)	(1-4)	†	†	(1-4)	(1-4)	(1-4)
North Reading	(1-4)	6	(1-4)	10	23	(1-4)	5	(1-4)	†	11
Northampton	16	43	23	26	108	34	22	23	25	104
Northborough	(1-4)	7	(1-4)	9	21	7	(1-4)	(1-4)	(1-4)	17
Northbridge	7	15	12	6	40	*	10	8	(1-4)	28
Northfield	(1-4)	(1-4)	†	(1-4)	(1-4)	†	†	†	(1-4)	(1-4)
Norton	11	9	7	5	32	(1-4)	8	(1-4)	6	19
Norwell	(1-4)	5	(1-4)	5	16	5	5	(1-4)	(1-4)	13
Norwood	9	10	16	8	43	18	12	9	11	50
Oak Bluffs	(1-4)	(1-4)	†	(1-4)	5	(1-4)	(1-4)	(1-4)	†	7

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City/Town	<u>2018</u>					<u>2019</u>				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Oakham	(1-4)	(1-4)	†	†	(1-4)	†	†	(1-4)	†	(1-4)
Orange	(1-4)	12	10	*	29	9	8	(1-4)	(1-4)	24
Orleans	(1-4)	(1-4)	(1-4)	7	16	(1-4)	(1-4)	(1-4)	(1-4)	6
Otis	†	(1-4)	†	†	(1-4)	†	†	†	(1-4)	(1-4)
Oxford	(1-4)	14	*	20	50	9	9	9	11	38
Palmer	16	15	14	8	53	10	10	9	16	45
Paxton	(1-4)	(1-4)	(1-4)	(1-4)	9	(1-4)	(1-4)	(1-4)	†	(1-4)
Peabody	44	57	40	35	176	32	32	34	29	127
Pelham	†	†	(1-4)	†	(1-4)	†	†	†	†	†
Pembroke	7	6	†	7	20	5	8	9	7	29
Pepperell	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	38	67	69	64	238	57	46	96	54	253
Plainfield	(1-4)	†	(1-4)	(1-4)	6	(1-4)	(1-4)	†	†	(1-4)
Plainville	(1-4)	(1-4)	5	(1-4)	15	(1-4)	9	(1-4)	(1-4)	21
Plymouth	44	71	41	51	207	51	43	35	39	168
Plympton	†	(1-4)	(1-4)	(1-4)	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)
Princeton	(1-4)	(1-4)	†	(1-4)	5	†	(1-4)	†	(1-4)	(1-4)
Provincetown	†	(1-4)	16	(1-4)	24	(1-4)	11	8	(1-4)	26
Quincy	134	122	127	80	463	85	93	110	76	364
Randolph	10	9	15	25	59	16	20	15	13	64
Raynham	13	12	10	16	51	8	14	12	12	46
Reading	8	7	*	(1-4)	25	(1-4)	(1-4)	(1-4)	(1-4)	11
Rehoboth	†	†	(1-4)	(1-4)	(1-4)	(1-4)	†	(1-4)	5	7
Revere	67	77	73	57	274	42	56	54	28	180
Richmond	†	(1-4)	(1-4)	†	(1-4)	†	†	(1-4)	†	(1-4)
Rochester	(1-4)	(1-4)	†	(1-4)	6	†	5	†	†	5
Rockland	17	16	12	14	59	10	9	12	20	51
Rockport	†	†	(1-4)	(1-4)	(1-4)	(1-4)	†	(1-4)	†	5
Rowe	†	†	†	†	†	†	†	†	†	†
Rowley	†	(1-4)	(1-4)	(1-4)	6	(1-4)	†	(1-4)	†	(1-4)
Royalston	(1-4)	(1-4)	†	†	(1-4)	†	†	†	†	†
Russell	(1-4)	(1-4)	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	7
Rutland	(1-4)	(1-4)	(1-4)	†	5	(1-4)	(1-4)	(1-4)	(1-4)	8
Salem	42	54	54	37	187	33	29	41	28	131
Salisbury	17	21	28	17	83	9	10	7	7	33

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	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Sandisfield	†	†	†	†	†	†	†	†	†	†
Sandwich	10	12	*	(1-4)	35	*	7	7	(1-4)	25
Saugus	29	27	24	18	98	33	30	22	29	114
Savoy	†	†	†	†	†	†	†	†	(1-4)	(1-4)
Scituate	(1-4)	(1-4)	5	6	16	(1-4)	(1-4)	(1-4)	7	16
Seekonk	(1-4)	(1-4)	6	8	20	*	(1-4)	5	9	23
Sharon	5	(1-4)	(1-4)	(1-4)	15	(1-4)	(1-4)	†	(1-4)	5
Sheffield	†	†	(1-4)	(1-4)	5	(1-4)	(1-4)	(1-4)	(1-4)	5
Shelburne	†	(1-4)	(1-4)	†	(1-4)	(1-4)	(1-4)	†	†	(1-4)
Sherborn	(1-4)	†	(1-4)	†	(1-4)	†	†	†	(1-4)	(1-4)
Shirley	7	8	6	6	27	5	5	8	6	24
Shrewsbury	25	25	15	14	79	16	15	26	24	81
Shutesbury	(1-4)	†	(1-4)	†	(1-4)	†	†	†	†	†
Somerset	10	14	5	7	36	(1-4)	10	11	(1-4)	27
Somerville	32	33	38	27	130	25	33	40	34	132
South Hadley	6	12	14	6	38	10	5	11	6	32
Southampton	†	(1-4)	*	†	8	(1-4)	(1-4)	(1-4)	(1-4)	6
Southborough	(1-4)	(1-4)	7	†	9	(1-4)	†	(1-4)	†	(1-4)
Southbridge	8	20	24	25	77	33	31	28	21	113
Southwick	5	10	5	11	31	*	7	7	(1-4)	23
Spencer	5	12	6	7	30	9	9	20	24	62
Springfield	185	289	266	212	952	235	312	347	299	1193
Sterling	*	6	9	(1-4)	22	(1-4)	5	(1-4)	6	16
Stockbridge	†	(1-4)	†	†	(1-4)	(1-4)	†	†	(1-4)	(1-4)
Stoneham	13	10	10	6	39	*	14	10	(1-4)	33
Stoughton	27	19	29	22	97	25	27	20	29	101
Stow	(1-4)	†	(1-4)	(1-4)	6	†	†	(1-4)	†	(1-4)
Sturbridge	(1-4)	10	9	*	27	6	(1-4)	(1-4)	5	18
Sudbury	(1-4)	(1-4)	(1-4)	(1-4)	11	†	(1-4)	†	(1-4)	(1-4)
Sunderland	(1-4)	†	(1-4)	(1-4)	(1-4)	†	(1-4)	†	(1-4)	(1-4)
Sutton	6	(1-4)	(1-4)	7	19	(1-4)	(1-4)	(1-4)	(1-4)	10
Swampscott	(1-4)	5	(1-4)	(1-4)	13	(1-4)	5	†	(1-4)	11
Swansea	*	13	(1-4)	12	40	13	(1-4)	13	(1-4)	34
Taunton	72	73	66	71	282	55	50	52	45	202
Templeton	6	(1-4)	*	6	21	*	8	(1-4)	6	23
Tewksbury	44	28	26	23	121	18	29	22	11	80
Tisbury	†	†	(1-4)	(1-4)	5	(1-4)	(1-4)	†	(1-4)	6
Tolland	†	†	†	†	†	†	†	†	†	†

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	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Topsfield	(1-4)	†	†	(1-4)	6	(1-4)	(1-4)	(1-4)	†	5
Townsend	*	9	(1-4)	†	16	(1-4)	(1-4)	(1-4)	5	10
Truro	(1-4)	(1-4)	(1-4)	(1-4)	5	†	†	(1-4)	†	(1-4)
Tyngsborough	9	7	(1-4)	(1-4)	23	(1-4)	(1-4)	(1-4)	7	15
Tyringham	†	†	†	†	†	†	†	(1-4)	†	(1-4)
Upton	(1-4)	(1-4)	(1-4)	(1-4)	6	(1-4)	6	5	(1-4)	16
Uxbridge	(1-4)	11	5	(1-4)	23	5	(1-4)	7	(1-4)	18
Wakefield	9	19	13	13	54	20	11	14	13	58
Wales	†	(1-4)	(1-4)	†	(1-4)	†	(1-4)	†	†	(1-4)
Walpole	10	17	13	6	46	6	10	6	8	30
Waltham	34	33	28	21	116	20	31	36	31	118
Ware	8	11	9	8	36	7	9	10	7	33
Wareham	33	41	51	38	163	33	34	25	32	124
Warren	(1-4)	6	(1-4)	(1-4)	15	*	(1-4)	6	10	26
Warwick	†	†	(1-4)	†	(1-4)	†	†	†	(1-4)	(1-4)
Washington	†	†	†	†	†	†	†	†	†	†
Watertown	16	18	20	11	65	9	12	12	6	39
Wayland	(1-4)	†	†	†	(1-4)	(1-4)	†	(1-4)	†	(1-4)
Webster	15	33	41	38	127	37	39	26	39	141
Wellesley	(1-4)	(1-4)	(1-4)	7	16	(1-4)	(1-4)	(1-4)	†	5
Wellfleet	†	(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)
West Boylston	(1-4)	5	7	(1-4)	19	7	5	(1-4)	(1-4)	17
West Bridgewater	8	9	(1-4)	(1-4)	24	(1-4)	6	(1-4)	(1-4)	14
West Brookfield	(1-4)	(1-4)	(1-4)	(1-4)	10	(1-4)	(1-4)	†	9	13
West Newbury	(1-4)	†	†	†	(1-4)	†	†	†	†	†
West Springfield	23	44	23	22	112	30	31	33	42	136
West Stockbridge	†	(1-4)	†	†	(1-4)	†	†	†	†	†
West Tisbury	†	†	†	†	†	(1-4)	†	†	†	(1-4)
Westborough	14	13	8	12	47	14	13	15	20	62
Westfield	31	28	20	15	94	21	24	31	29	105
Westford	8	10	(1-4)	(1-4)	22	(1-4)	(1-4)	(1-4)	†	10
Westhampton	†	†	†	†	†	†	†	†	†	†
Westminster	*	(1-4)	6	7	22	*	9	(1-4)	9	28
Weston	(1-4)	(1-4)	(1-4)	†	(1-4)	†	(1-4)	(1-4)	(1-4)	5

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	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Westport	9	9	7	8	33	(1-4)	8	*	9	26
Westwood	†	(1-4)	(1-4)	†	(1-4)	(1-4)	†	†	†	(1-4)
Weymouth	54	52	31	41	178	43	49	48	51	191
Whately	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	8
Whitman	14	9	10	11	44	11	8	10	7	36
Wilbraham	8	13	8	11	40	12	(1-4)	8	*	30
Williamsburg	(1-4)	†	†	†	(1-4)	(1-4)	†	(1-4)	(1-4)	6
Williamstown	(1-4)	(1-4)	†	(1-4)	7	(1-4)	(1-4)	(1-4)	(1-4)	9
Wilmington	21	15	9	5	50	16	10	16	8	50
Winchendon	7	9	7	6	29	(1-4)	12	9	*	30
Winchester	(1-4)	(1-4)	(1-4)	6	14	(1-4)	8	6	(1-4)	20
Windsor	†	†	†	†	†	†	(1-4)	†	†	(1-4)
Winthrop	9	8	12	13	42	*	8	(1-4)	13	32
Woburn	33	39	27	32	131	27	29	37	47	140
Worcester	362	471	482	464	1779	411	430	414	359	1614
Worthington	†	†	†	†	†	†	†	†	(1-4)	(1-4)
Wrentham	(1-4)	(1-4)	(1-4)	7	16	(1-4)	7	9	*	24
Yarmouth	10	19	15	14	58	19	(1-4)	15	*	50
Unknown	22	9	7	8	46	(1-4)	(1-4)	(1-4)	(1-4)	13
Grand Total	5620	6712	6556	5604	24492	5181	5945	5911	5136	22173

Technical Notes

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Source

- Bureau of Health Care Safety and Quality, MDPH