



MA Opioid-Related EMS Incidents 2013-2018

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

Between 2013 and 2016, there was 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). However, since 2016, the proportion of EMS incidents that are opioid-related as well as the overall number of EMS incidents involving the administration of naloxone has stabilized. This pattern also closely resembles the 2013-2018 trend in the confirmed and estimated opioid-related overdose death rate (see “Q1 2019 Opioid-related Overdose Deaths among MA Residents”, Figure 3). In 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: 2013								
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	9	901	1,957	1,012	838	460	154	5,331
Female	6	599	1,068	585	508	280	192	3,238
Total	15	1,500	3,025	1,597	1,346	740	346	8,569

All Suspected Opioid Related Incidents: 2014								
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	<5	1,471	3,478	1,632	1,274	661	241	8,757*
Female	<5	890	1,631	841	740	334	235	4,671*
Total	<5	2,361	5,109	2,473	2,014	995	476	13,428*

*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	<5	1,690	4,715	2,526	1,755	854	283	11,823*
Female	7	928	2,276	1,122	878	461	260	5,932
Total	7	2,618	6,991	3,648	2,633	1,315	543	17,755*

*Total of non-suppressed cells; 7 Complementary suppression

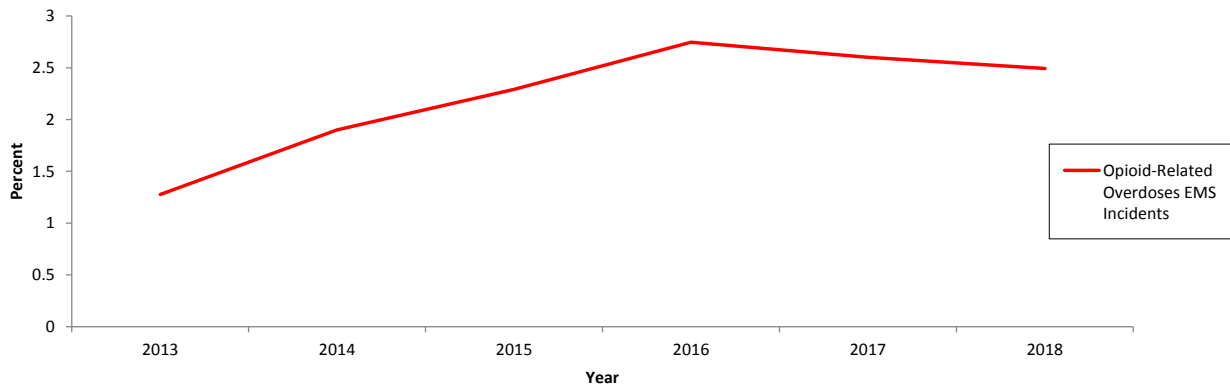
All Suspected Opioid Related Incidents: 2016								
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	5	1,765	5,869	3,332	2,240	1,284	389	14,884
Female	5	1,005	2,829	1,531	1,019	597	294	7,280
Total	10	2,770	8,698	4,863	3,259	1,881	683	22,164

All Suspected Opioid Related Incidents: 2017								
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	5	1,463	5,906	3,439	2,332	1,257	422	14,824
Female	5	883	2,700	1,633	1,006	652	304	7,183
Total	10	2,346	8,606	5,072	3,338	1,909	726	22,007

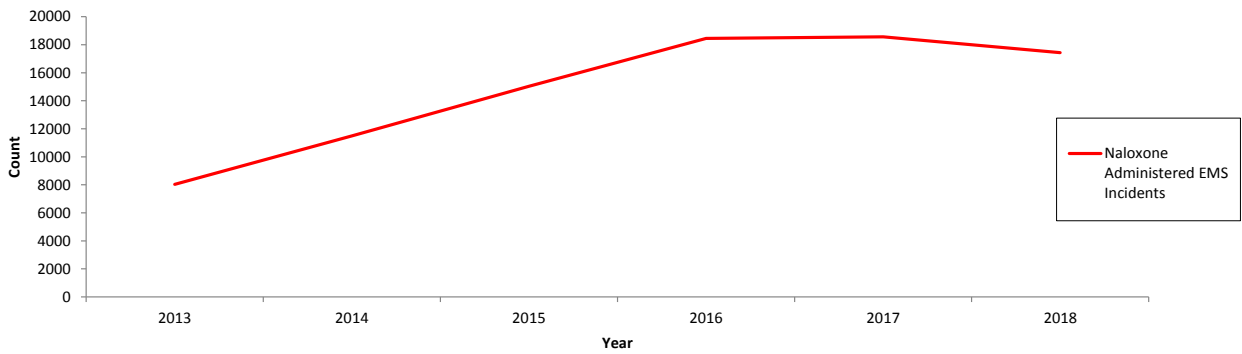
All Suspected Opioid Related Incidents: 2018								
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	<5	1,265	5,089	3,532	2,362	1,340	464	14,052*
Female	8	640	2,491	1,534	900	661	285	6,519
Total	7	1,905	7,580	5,066	3,262	2,001	749	20,571*

*Total of non-suppressed cells; 7 Complementary suppression

**Figure 1: Percent of Opioid-Related Overdoses
Among All EMS Incidents, MA: 2013-2018**



**Figure 2: Count of All EMS Incidents Involving
Naloxone Administration, MA: 2013-2018**



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>2017</u>					<u>2018</u>				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Abington	14	9	10	12	45	*	9	<5	8	28
Acton	*	7	<5	6	19	7	†	<5	<5	13
Acushnet	7	7	6	5	25	6	<5	<5	<5	14
Adams	5	<5	<5	10	19	11	<5	*	10	32
Agawam	9	10	13	11	43	24	24	19	11	78
Alford	†	†	†	†	†	†	†	†	†	†
Amesbury	11	15	14	12	52	11	7	13	7	38
Amherst	8	6	8	7	29	<5	*	7	5	21
Andover	7	11	12	14	44	9	6	11	12	38
Aquinnah	†	†	†	†	†	†	†	†	†	†
Arlington	11	14	19	23	67	<5	13	14	*	33
Ashburnham	<5	<5	†	†	<5	<5	†	<5	†	<5
Ashby	†	<5	<5	5	12	<5	<5	<5	†	7
Ashfield	†	†	†	†	†	†	†	†	†	†
Ashland	*	9	7	<5	25	<5	<5	5	<5	15
Athol	7	15	12	8	42	19	33	18	21	91
Attleboro	36	31	46	31	144	43	30	43	40	156
Auburn	6	11	7	6	30	8	15	7	5	35
Avon	<5	<5	<5	†	7	†	5	<5	<5	12
Ayer	<5	<5	<5	†	7	5	8	<5	<5	16
Barnstable	63	48	90	44	245	33	29	31	23	116
Barre	6	<5	<5	<5	13	6	<5	8	<5	18
Becket	<5	<5	†	<5	6	†	†	<5	†	<5
Bedford	*	8	8	<5	23	6	8	*	<5	21
Belchertown	<5	7	*	6	21	*	7	6	<5	22
Bellingham	11	14	6	9	40	8	†	5	7	20
Belmont	<5	*	12	7	27	8	5	<5	<5	19
Berkley	<5	<5	<5	<5	9	<5	<5	<5	<5	8
Berlin	<5	†	<5	†	<5	<5	†	<5	†	<5
Bernardston	†	†	†	†	†	†	†	†	†	†
Beverly	25	35	23	23	106	23	19	32	23	97
Billerica	20	15	42	20	97	32	17	16	14	79
Blackstone	<5	9	12	*	30	*	10	<5	7	27
Blandford	†	†	†	†	†	†	†	†	<5	<5
Bolton	<5	†	<5	†	<5	<5	†	<5	†	<5
Boston	425	635	892	687	2639	602	683	750	573	2608

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City/Town	2017					2018				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Bourne	15	30	17	22	84	5	16	20	19	60
Boxborough	†	<5	<5	<5	7	†	†	†	<5	<5
Boxford	<5	<5	†	†	<5	<5	<5	<5	<5	5
Boylston	†	†	<5	†	<5	†	<5	†	†	<5
Braintree	25	35	39	16	115	12	<5	<5	<5	21
Brewster	†	7	<5	<5	12	<5	<5	5	<5	13
Bridgewater	<5	<5	<5	<5	8	†	<5	*	16	27
Brimfield	†	†	†	†	†	†	†	†	<5	<5
Brockton	186	164	253	91	694	44	49	37	34	164
Brookfield	<5	<5	<5	<5	7	†	<5	<5	<5	<5
Brookline	12	18	10	13	53	9	10	12	11	42
Buckland	†	†	†	†	†	†	†	†	†	†
Burlington	9	13	21	15	58	9	10	14	13	46
Cambridge	81	92	107	73	353	72	99	84	93	348
Canton	7	7	9	14	37	*	9	8	<5	27
Carlisle	†	†	5	†	5	†	<5	†	<5	5
Carver	11	12	11	9	43	<5	<5	11	<5	21
Charlemont	†	†	†	†	†	<5	†	†	†	<5
Charlton	<5	<5	<5	<5	11	<5	5	†	<5	11
Chatham	5	<5	<5	<5	11	<5	<5	<5	†	7
Chelmsford	19	12	13	12	56	19	15	15	14	63
Chelsea	49	83	91	43	266	69	70	72	36	247
Cheshire	<5	<5	†	†	<5	<5	†	<5	<5	6
Chester	<5	†	<5	†	<5	<5	†	†	†	<5
Chesterfield	†	†	<5	†	<5	†	<5	†	†	<5
Chicopee	46	59	66	76	247	81	111	62	64	318
Chilmark	†	†	†	<5	<5	<5	†	<5	†	<5
Clarksburg	†	†	†	†	†	†	†	†	†	†
Clinton	6	12	14	17	49	9	19	10	6	44
Cohasset	†	<5	<5	<5	9	†	†	<5	†	<5
Colrain	†	†	†	†	†	<5	†	<5	<5	<5
Concord	<5	<5	<5	<5	9	<5	5	<5	†	11
Conway	†	†	†	†	†	†	†	†	<5	<5
Cummington	†	†	<5	†	<5	†	†	†	†	†
Dalton	<5	†	<5	†	6	†	<5	<5	5	13
Danvers	30	41	36	35	142	44	41	26	30	141
Dartmouth	18	27	21	29	95	34	24	31	32	121

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	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Dedham	16	15	21	15	67	13	21	6	7	47
Deerfield	†	<5	†	<5	7	†	<5	<5	5	8
Dennis	11	11	20	16	58	7	14	10	8	39
Dighton	<5	<5	†	†	<5	†	<5	†	†	<5
Douglas	†	†	†	<5	<5	<5	<5	<5	<5	11
Dover	†	†	<5	†	<5	<5	<5	<5	<5	6
Dracut	11	17	26	13	67	28	25	18	20	91
Dudley	<5	7	*	7	23	5	18	12	11	46
Dunstable	<5	†	<5	<5	<5	<5	†	†	†	<5
Duxbury	<5	<5	<5	<5	10	<5	<5	<5	<5	9
East Bridgewater	*	6	<5	9	24	6	5	15	8	34
East Brookfield	†	†	†	†	†	†	<5	<5	†	<5
East Longmeadow	7	*	<5	6	20	7	<5	8	*	24
Eastham	<5	<5	<5	†	8	<5	<5	<5	<5	6
Easthampton	<5	5	10	<5	23	7	12	7	5	31
Easton	<5	<5	6	13	22	11	12	9	11	43
Edgartown	<5	<5	<5	†	5	†	†	<5	<5	5
Egremont	†	†	†	†	†	†	†	†	†	†
Erving	<5	†	†	<5	<5	†	<5	†	†	<5
Essex	<5	<5	<5	<5	5	<5	†	<5	†	<5
Everett	39	43	49	39	170	37	40	27	42	146
Fairhaven	11	13	11	12	47	12	19	12	12	55
Fall River	195	169	247	248	859	165	258	370	274	1067
Falmouth	40	48	29	34	151	36	35	30	32	133
Fitchburg	75	80	105	81	341	66	78	82	42	268
Florida	†	†	†	†	†	†	†	†	†	†
Foxborough	11	7	9	7	34	<5	*	10	9	29
Framingham	44	34	48	54	180	39	58	49	48	194
Franklin	16	15	*	<5	46	10	9	5	10	34
Freetown	<5	<5	<5	<5	11	<5	8	<5	†	14
Gardner	22	13	20	13	68	11	23	29	22	85
Georgetown	<5	<5	†	<5	7	*	<5	†	7	16
Gill	†	†	†	†	†	†	<5	<5	<5	7
Gloucester	17	27	32	30	106	27	29	32	21	109
Goshen	†	†	†	†	†	†	†	†	†	†

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City/Town	<u>2017</u>					<u>2018</u>				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Gosnold	†	†	†	†	†	†	†	†	†	†
Grafton	*	7	10	<5	25	<5	6	<5	8	18
Granby	<5	†	<5	8	13	*	6	<5	5	19
Granville	†	†	†	†	†	†	†	†	†	†
Great Barrington	6	<5	<5	6	19	<5	<5	5	8	18
Greenfield	11	15	20	7	53	13	10	22	15	60
Groton	†	<5	†	†	<5	<5	<5	†	†	5
Groveland	<5	<5	†	<5	7	†	<5	<5	<5	5
Hadley	<5	<5	7	<5	15	<5	<5	<5	<5	10
Halifax	*	<5	7	11	25	8	5	<5	<5	19
Hamilton	<5	<5	<5	<5	6	†	<5	†	<5	<5
Hampden	<5	<5	<5	†	6	5	<5	<5	5	15
Hancock	†	<5	†	†	<5	†	†	†	†	†
Hanover	<5	5	5	<5	17	<5	5	<5	<5	12
Hanson	<5	9	<5	<5	21	10	<5	*	5	21
Hardwick	<5	†	†	†	<5	<5	<5	<5	<5	6
Harvard	<5	†	†	<5	<5	†	†	†	<5	<5
Harwich	11	6	11	8	36	6	8	<5	<5	21
Hatfield	†	<5	<5	†	6	<5	†	†	†	<5
Haverhill	87	85	121	76	369	75	82	74	78	309
Hawley	†	†	†	†	†	†	†	†	†	†
Heath	<5	†	†	<5	<5	†	†	†	†	†
Hingham	<5	<5	5	<5	14	<5	<5	<5	5	12
Hinsdale	†	†	†	†	†	†	<5	†	<5	<5
Holbrook	17	18	17	9	61	8	12	12	6	38
Holden	<5	<5	5	<5	11	<5	<5	<5	<5	8
Holland	†	†	<5	†	<5	<5	<5	†	†	<5
Holliston	<5	<5	<5	5	14	<5	<5	†	<5	6
Holyoke	55	49	65	57	226	81	159	102	18	360
Hopedale	<5	<5	<5	<5	7	<5	<5	†	<5	8
Hopkinton	<5	6	<5	<5	13	5	<5	5	<5	12
Hubbardston	<5	<5	<5	†	7	<5	†	<5	5	7
Hudson	5	6	7	9	27	6	9	8	6	29
Hull	<5	<5	<5	†	8	<5	<5	6	<5	10
Huntington	†	†	<5	†	<5	<5	†	†	†	<5
Ipswich	8	7	<5	*	22	<5	<5	9	†	14

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	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Kingston	6	*	9	<5	24	12	7	<5	<5	26
Lakeville	21	15	22	17	75	*	5	10	<5	21
Lancaster	†	<5	<5	<5	6	<5	†	8	<5	11
Lanesborough	†	<5	<5	†	<5	†	<5	<5	<5	9
Lawrence	151	178	242	207	778	180	169	183	132	664
Lee	<5	<5	<5	<5	10	<5	5	<5	<5	11
Leicester	9	6	6	8	29	6	5	<5	<5	19
Lenox	<5	5	<5	<5	16	†	<5	<5	†	5
Leominster	68	56	70	56	250	46	62	55	70	233
Leverett	<5	†	†	†	<5	†	†	†	†	†
Lexington	5	<5	5	<5	16	<5	<5	<5	<5	8
Leyden	†	†	†	†	†	†	†	†	†	†
Lincoln	†	<5	<5	<5	8	†	†	†	†	†
Littleton	<5	<5	<5	<5	9	†	†	<5	<5	<5
Longmeadow	<5	<5	<5	<5	10	<5	<5	<5	7	15
Lowell	269	309	322	238	1138	320	290	337	282	1229
Ludlow	10	6	13	10	39	9	18	6	7	40
Lunenburg	<5	†	<5	<5	6	<5	*	8	8	26
Lynn	117	147	172	150	586	117	162	202	110	591
Lynnfield	5	<5	<5	<5	11	<5	<5	<5	8	17
Malden	31	55	76	42	204	52	50	55	41	198
Manchester	<5	<5	†	<5	6	†	†	†	<5	<5
Mansfield	7	10	6	17	40	8	12	7	7	34
Marblehead	9	<5	*	10	28	<5	6	9	<5	19
Marion	<5	<5	<5	<5	9	<5	†	<5	<5	5
Marlborough	5	10	19	17	51	20	12	19	23	74
Marshfield	8	7	12	16	43	8	<5	<5	6	19
Mashpee	16	*	<5	10	35	*	12	9	<5	32
Mattapoissett	<5	<5	6	5	15	6	<5	10	<5	22
Maynard	9	9	<5	<5	23	<5	<5	<5	<5	8
Medfield	5	<5	<5	<5	10	†	<5	<5	<5	5
Medford	14	24	27	27	92	18	19	34	21	92
Medway	*	8	17	<5	35	8	<5	*	7	25
Melrose	*	<5	15	7	33	9	9	5	5	28
Mendon	<5	<5	†	<5	7	<5	†	<5	<5	7
Merrimac	<5	<5	7	<5	15	6	†	<5	<5	10
Methuen	28	49	60	55	192	34	24	11	38	107

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City/Town	<u>2017</u>					<u>2018</u>				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Middleborough	<5	<5	<5	<5	9	<5	<5	†	5	9
Middlefield	†	<5	†	†	<5	†	†	†	†	†
Middleton	<5	<5	6	7	19	13	<5	*	8	31
Milford	13	24	12	16	65	19	12	9	24	64
Millbury	8	12	10	14	44	8	13	11	11	43
Millis	6	<5	5	<5	15	7	†	<5	<5	14
Millville	†	†	<5	<5	5	<5	<5	†	<5	7
Milton	9	9	9	5	32	8	<5	7	<5	22
Monroe	†	†	†	†	†	†	†	†	†	†
Monson	<5	<5	6	<5	14	<5	<5	<5	<5	11
Montague	6	*	8	<5	23	<5	10	6	<5	22
Monterey	†	†	†	†	†	†	†	†	†	†
Montgomery	†	†	†	†	†	†	†	†	†	†
Mount Washington	†	†	†	†	†	†	†	<5	†	<5
Nahant	†	<5	<5	†	6	<5	<5	†	<5	7
Nantucket	<5	<5	<5	<5	10	<5	<5	5	5	14
Natick	7	6	8	9	30	8	5	11	9	33
Needham	<5	†	<5	<5	7	<5	<5	<5	<5	10
New Ashford	†	†	†	†	†	†	†	†	†	†
New Bedford	118	199	234	129	680	142	249	189	120	700
New Braintree	†	<5	†	†	<5	†	†	<5	†	<5
New Marlborough	†	<5	†	†	<5	†	†	<5	<5	<5
New Salem	†	<5	†	†	<5	†	†	†	†	†
Newbury	<5	<5	†	<5	6	†	<5	<5	5	9
Newburyport	<5	<5	8	<5	16	<5	5	<5	<5	17
Newton	17	16	15	17	65	18	13	12	17	60
Norfolk	<5	<5	<5	<5	6	<5	<5	<5	†	5
North Adams	9	9	17	13	48	12	13	26	8	59
North Andover	19	12	16	24	71	13	*	12	<5	36
North Attleboro	10	25	21	22	78	21	18	14	18	71
North Brookfield	†	†	†	<5	<5	<5	†	†	<5	<5
North Reading	<5	9	<5	<5	17	<5	7	<5	9	23
Northampton	25	20	16	20	81	15	30	20	24	89
Northborough	<5	<5	6	<5	12	<5	6	<5	8	19

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City/Town	<u>2017</u>					<u>2018</u>				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Northbridge	<5	*	9	6	25	†	†	<5	†	<5
Northfield	†	†	<5	<5	<5	<5	<5	†	<5	<5
Norton	9	<5	9	*	28	*	8	5	<5	22
Norwell	<5	7	<5	5	19	<5	5	<5	5	16
Norwood	13	13	15	12	53	*	12	15	<5	38
Oak Bluffs	<5	†	<5	<5	5	<5	†	†	†	<5
Oakham	<5	†	<5	†	<5	<5	†	†	†	<5
Orange	8	<5	<5	<5	18	<5	11	10	*	29
Orleans	5	<5	<5	†	9	<5	<5	<5	7	16
Otis	†	†	<5	†	<5	†	†	†	†	†
Oxford	11	*	<5	11	34	<5	14	*	17	46
Palmer	<5	8	*	9	28	8	15	13	8	44
Paxton	<5	<5	<5	†	5	<5	<5	<5	†	7
Peabody	34	37	51	41	163	44	56	38	35	173
Pelham	†	†	†	†	†	†	†	<5	†	<5
Pembroke	12	8	8	5	33	*	7	<5	7	22
Pepperell	<5	†	7	<5	14	7	<5	<5	<5	14
Peru	†	†	†	†	†	†	†	†	†	†
Petersham	†	†	†	†	†	†	†	†	†	†
Phillipston	†	†	†	†	†	†	†	†	†	†
Pittsfield	35	29	57	38	159	33	61	64	36	194
Plainfield	†	<5	<5	†	<5	<5	†	<5	<5	6
Plainville	7	*	<5	6	23	<5	<5	5	<5	15
Plymouth	50	58	69	42	219	8	*	†	<5	20
Plympton	<5	<5	†	†	<5	†	<5	<5	<5	<5
Princeton	†	<5	<5	<5	5	<5	<5	†	<5	5
Provincetown	<5	<5	<5	†	9	†	<5	14	<5	21
Quincy	89	101	164	42	396	24	40	33	21	118
Randolph	20	13	21	24	78	10	9	14	23	56
Raynham	6	10	12	9	37	13	12	10	16	51
Reading	<5	5	<5	<5	13	<5	<5	<5	<5	8
Rehoboth	<5	<5	<5	<5	8	†	†	<5	<5	<5
Revere	52	69	82	54	257	63	69	70	49	251
Richmond	†	†	†	†	†	†	<5	<5	†	<5
Rochester	<5	†	<5	<5	7	<5	<5	†	<5	6
Rockland	17	19	23	20	79	17	16	13	14	60
Rockport	<5	*	†	6	13	†	†	<5	<5	<5

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City/Town	<u>2017</u>					<u>2018</u>				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Rowe	†	†	†	†	†	†	†	†	†	†
Rowley	†	<5	†	†	<5	†	<5	<5	†	<5
Royalston	<5	†	†	<5	<5	<5	<5	†	†	<5
Russell	†	<5	†	†	<5	<5	<5	†	†	<5
Rutland	5	<5	<5	<5	13	<5	<5	†	†	<5
Salem	54	56	78	44	232	39	51	52	37	179
Salisbury	19	25	34	29	107	17	22	26	17	82
Sandisfield	<5	†	†	†	<5	†	†	†	†	†
Sandwich	14	9	5	11	39	10	12	*	<5	35
Saugus	25	31	32	28	116	30	27	21	16	94
Savoy	†	†	†	†	†	†	†	†	†	†
Scituate	<5	<5	6	<5	13	<5	<5	5	6	16
Seekonk	<5	10	8	*	29	<5	<5	5	8	18
Sharon	<5	<5	<5	7	16	5	<5	<5	<5	15
Sheffield	†	7	<5	<5	12	†	†	<5	<5	5
Shelburne	<5	†	<5	†	<5	†	<5	<5	†	<5
Sherborn	†	†	†	<5	<5	<5	†	<5	†	<5
Shirley	*	<5	7	5	21	6	8	6	5	25
Shrewsbury	7	16	13	18	54	24	25	14	14	77
Shutesbury	†	†	†	†	†	<5	†	<5	†	<5
Somerset	8	10	14	15	47	12	14	*	<5	35
Somerville	27	39	43	24	133	30	31	35	26	122
South Hadley	†	†	<5	<5	<5	<5	11	11	*	31
Southampton	<5	<5	†	<5	<5	†	<5	<5	†	7
Southborough	†	†	<5	<5	5	<5	<5	6	†	8
Southbridge	8	14	20	7	49	8	20	24	23	75
Southwick	8	<5	<5	8	23	5	10	5	13	33
Spencer	<5	*	7	10	24	<5	12	*	7	29
Springfield	115	186	212	161	674	184	278	262	207	931
Sterling	<5	<5	<5	<5	8	*	5	9	<5	21
Stockbridge	<5	†	†	<5	<5	†	<5	†	†	<5
Stoneham	9	6	18	6	39	12	*	10	<5	34
Stoughton	14	16	16	13	59	25	15	22	19	81
Stow	<5	6	<5	<5	13	<5	†	<5	<5	6
Sturbridge	<5	<5	<5	8	17	<5	8	8	*	23
Sudbury	<5	†	<5	<5	5	<5	<5	<5	<5	8
Sunderland	†	<5	†	†	<5	<5	†	<5	†	<5

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City/Town	<u>2017</u>					<u>2018</u>				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Sutton	<5	<5	<5	<5	12	6	<5	<5	7	17
Swampscott	<5	<5	5	<5	15	<5	<5	<5	<5	12
Swansea	10	<5	17	<5	34	*	13	<5	11	36
Taunton	39	75	90	41	245	11	*	<5	10	28
Templeton	5	<5	6	<5	15	<5	<5	<5	<5	14
Tewksbury	37	41	29	20	127	47	26	29	23	125
Tisbury	<5	<5	<5	†	7	†	†	<5	<5	<5
Tolland	†	†	†	†	†	†	†	†	†	†
Topsfield	<5	6	†	<5	8	<5	†	†	<5	6
Townsend	<5	<5	†	<5	10	*	9	<5	†	16
Truro	†	†	†	<5	<5	<5	<5	<5	<5	5
Tyngsborough	<5	*	6	6	19	10	10	<5	<5	28
Tyringham	†	†	†	†	†	†	†	†	†	†
Upton	†	5	<5	<5	10	<5	†	<5	<5	5
Uxbridge	*	<5	7	6	22	<5	11	<5	<5	22
Wakefield	10	17	18	13	58	9	18	13	5	45
Wales	†	†	<5	<5	<5	<5	<5	<5	†	5
Walpole	9	*	8	<5	29	10	17	11	6	44
Waltham	20	35	45	25	125	34	31	23	16	104
Ware	<5	6	11	<5	22	8	10	9	8	35
Wareham	39	36	47	50	172	34	41	49	33	157
Warren	6	<5	<5	†	13	<5	6	<5	<5	14
Warwick	†	<5	†	†	<5	†	†	<5	†	<5
Washington	†	†	†	<5	<5	†	†	†	†	†
Watertown	5	11	15	13	44	15	18	20	11	64
Wayland	<5	<5	<5	†	5	<5	†	†	†	<5
Webster	13	18	23	17	71	14	28	30	28	100
Wellesley	<5	<5	<5	6	14	<5	<5	7	5	17
Wellfleet	†	5	<5	<5	10	†	<5	<5	<5	<5
Wendell	†	†	†	†	†	†	†	†	†	†
Wenham	<5	†	<5	<5	<5	†	<5	†	<5	<5
West Boylston	6	<5	<5	6	16	*	5	7	<5	21
West Bridgewater	<5	5	<5	10	21	<5	7	<5	<5	13
West Brookfield	<5	<5	<5	5	10	<5	<5	<5	<5	9
West Newbury	†	†	<5	†	<5	<5	<5	†	†	<5

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City/Town	<u>2017</u>					<u>2018</u>				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
West Springfield	11	15	40	23	89	23	35	23	20	101
West Stockbridge	<5	†	†	†	<5	†	<5	†	†	<5
West Tisbury	†	<5	<5	†	<5	†	†	†	†	†
Westborough	14	26	15	11	66	12	13	8	12	45
Westfield	11	14	15	21	61	27	27	20	14	88
Westford	5	9	5	6	25	*	10	<5	†	20
Westhampton	<5	†	†	†	<5	<5	†	†	†	<5
Westminster	<5	5	<5	8	19	*	<5	5	6	19
Weston	9	<5	<5	†	11	<5	<5	†	†	<5
Westport	7	8	6	5	26	9	9	7	6	31
Westwood	<5	6	<5	5	13	†	<5	<5	†	<5
Weymouth	50	57	70	62	239	50	50	32	38	170
Whately	<5	<5	†	<5	<5	†	†	<5	†	<5
Whitman	9	6	19	9	43	13	5	9	11	38
Wilbraham	<5	6	*	5	20	6	6	8	7	27
Williamsburg	<5	<5	<5	†	<5	<5	†	†	†	<5
Williamstown	†	<5	<5	†	<5	<5	<5	†	<5	6
Wilmington	6	11	16	20	53	19	12	*	<5	41
Winchendon	†	5	5	6	16	7	8	*	<5	25
Winchester	<5	†	<5	<5	7	<5	<5	<5	6	13
Windsor	†	†	†	†	†	†	†	†	†	†
Winthrop	<5	*	9	9	30	9	*	11	<5	32
Woburn	43	36	45	28	152	31	37	26	32	126
Worcester	262	361	448	432	1503	342	451	461	445	1699
Worthington	†	†	†	†	†	†	†	†	†	†
Wrentham	6	6	7	6	25	<5	<5	<5	†	8
Yarmouth	16	29	35	17	97	10	19	15	13	57
Unknown	51	49	62	49	211	35	32	7	8	82
Grand Total	4632	5534	6823	5305	22294	4883	5753	5655	4657	20948

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