

Opioid-Related EMS Incidents Massachusetts Residents: 2013-2017

Massachusetts Department of Public Health

Note to Readers: This quarter's EMS data includes changes from previous reports. After receiving feedback from cities and towns following the posting of 2015 and 2016 counts by town in the May 2017 report, DPH completed a validation of the logic used to identify opioid cases which led to several changes. These changes removed cases that were previously counted as opioid-related overdose incidents but are most likely not true overdoses. Additionally, in order to be consistent with CDC reporting requirements, this report includes all incidents involving people ages 11 and above; previously all ages were included. As a result of these changes, the total numbers of opioid-related overdose incidents have been updated to: 8,389 in 2013, 13,226 in 2014, 17,252 in 2015, and 20,978 in 2016. Previous totals were: 10,048 in 2013, 15,107 in 2014, 19,572 in 2015, and 23,499 in 2016.

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. Due to non-reporting by several large ambulance services, DPH expects significant changes for the fourth quarter 2016 and first quarter 2017 data when the report is next updated.

Enhancement of Opioid Overdose Surveillance

MATRIS, the Massachusetts Ambulance Trip Reporting Information System, is a statewide database for collecting emergency medical service data from licensed ambulance services. It was not specifically designed to track opioid overdose incidents. DPH is currently working with all Emergency Medical Services (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).

Results

Between the first quarter of 2013 and the third quarter of 2016, there was an increasing trend in the percentage of EMS incidents that involved opioid-related overdoses. Since then, there has been no statistically significant change in the percentages that are opioid-related overdoses.

In 2017, the greatest number of suspected opioid overdose incidents was among males aged 25-34 (28% of opioid-related incidents). There is an increasing trend in the quantity of Naloxone being dispensed during each opioid-related incident. On average, EMS administered Naloxone 1.4 times per opioid-related incident in the first quarter of 2017. Almost one third of opioid-related incidents required more than one dose of Naloxone.

POSTED: AUGUST 2017

			<u>2015</u>	<u>i</u>				<u>2017</u>			
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Abington	<7	<7	†	†	<7	†	8	12	9	29	14
Acton	9	<7	7	<7	24	<7	<7	<7	<7	19	<7
Acushnet	<7	†	+	†	<7	+	<7	†	+	<7	+
Adams	+	+	+	+	t	+	+	+	+	+	<7
Agawam	<7	<7	<7	21	28	17	8	16	13	54	9
Alford	+	+	†	+	t	†	+	+	+	+	+
Amesbury	<7	13	<7	8	32	15	24	13	16	68	11
Amherst	<7	<7	<7	7	17	8	<7	<7	<7	20	8
Andover	<7	13	<7	<7	28	<7	<7	9	<7	22	<7
Aquinnah	†	†	†	+	†	†	†	†	†	†	†
Arlington	15	16	32	21	84	15	16	15	8	54	8
Ashburnham	+	†	†	†	†	†	<7	†	†	<7	†
Ashby	†	†	<7	<7	<7	<7	†	<7	<7	8	+
Ashfield	†	†	†	<7	<7	†	+	†	<7	<7	†
Ashland	<7	<7	<7	<7	10	<7	7	7	<7	23	<7
Athol	<7	*	9	14	36	<7	*	9	16	38	<7
Attleboro	27	21	30	19	97	22	39	38	40	139	36
Auburn	<7	†	<7	8	13	<7	<7	11	8	27	<7
Avon	<7	<7	<7	<7	14	<7	<7	<7	<7	19	<7
Ayer	+	<7	<7	+	<7	<7	+	<7	<7	9	+
Barnstable	94	55	63	51	263	45	54	61	58	218	61
Barre	<7	<7	<7	<7	8	<7	<7	<7	<7	8	<7
Becket	†	<7	†	+	<7	†	<7	+	†	<7	+
Bedford	†	<7	<7	<7	9	<7	8	9	<7	27	<7
Belchertown	<7	†	†	+	<7	†	†	†	†	†	†
Bellingham	8	<7	8	*	26	7	11	11	13	42	11
Belmont	<7	7	<7	<7	18	10	11	*	<7	32	<7
Berkley	<7	†	<7	<7	<7	<7	<7	<7	<7	11	<7
Berlin	<7	†	<7	<7	<7	<7	+	†	<7	<7	<7
Bernardston	†	†	†	†	†	†	+	†	†	†	†
Beverly	21	27	33	22	103	24	31	24	31	110	25
Billerica	+	<7	*	†	10	19	12	29	11	71	20
Blackstone	+	†	†	†	†	+	†	†	+	+	†
Blandford	†	†	†	†	†	†	†	†	†	†	†
Bolton	<7	<7	+	<7	<7	<7	<7	<7	<7	7	+

may be due to it	·		2015					2016	<u>i</u>		2017
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Boston	491	475	511	477	1954	321	506	520	322	1669	348
Bourne	<7	<7	21	18	46	18	28	31	12	89	12
Boxborough	+	+	<7	+	<7	<7	<7	<7	<7	17	+
Boxford	<7	<7	<7	<7	<7	†	<7	<7	<7	7	<7
Boylston	+	†	+	<7	<7	†	+	<7	<7	7	+
Braintree	26	15	19	27	87	23	32	26	41	122	23
Brewster	7	+	<7	<7	15	<7	<7	+	<7	<7	+
Bridgewater	<7	<7	+	+	<7	<7	+	+	<7	<7	<7
Brimfield	†	†	+	+	†	+	+	+	†	†	†
Brockton	225	187	91	180	683	189	262	245	169	865	173
Brookfield	<7	<7	+	<7	<7	+	<7	+	<7	<7	<7
Brookline	7	7	<7	<7	24	7	<7	<7	<7	20	†
Buckland	†	†	+	+	†	+	+	+	†	†	†
Burlington	7	<7	<7	<7	18	<7	<7	7	<7	20	7
Cambridge	56	71	78	72	277	90	154	120	93	457	76
Canton	<7	<7	+	<7	<7	<7	13	*	10	34	<7
Carlisle	+	†	†	+	†	†	†	+	†	†	†
Carver	<7	<7	<7	8	23	13	12	14	13	52	11
Charlemont	†	†	+	+	†	+	+	+	†	†	†
Charlton	+	†	†	+	†	<7	†	+	<7	<7	†
Chatham	<7	†	†	+	<7	<7	<7	<7	<7	7	<7
Chelmsford	7	11	20	9	47	17	16	10	10	53	17
Chelsea	34	71	87	71	263	56	70	81	41	248	48
Cheshire	+	†	†	<7	<7	<7	†	<7	<7	<7	<7
Chester	+	†	†	+	†	†	†	†	†	†	†
Chesterfield	+	†	†	+	†	†	†	+	†	†	†
Chicopee	36	69	48	78	231	74	56	45	52	227	43
Chilmark	+	†	<7	+	<7	†	†	<7	†	<7	†
Clarksburg	+	+	+	+	†	+	+	+	+	†	+
Clinton	10	11	11	9	41	<7	13	*	28	54	<7
Cohasset	<7	†	†	†	<7	†	†	<7	<7	<7	†
Colrain	+	<7	†	†	<7	†	†	†	†	†	†
Concord	<7	<7	<7	<7	17	<7	7	<7	<7	18	<7
Conway	+	+	†	†	+	<7	+	†	†	<7	+
Cummington	+	+	†	†	†	+	+	+	†	+	+
Dalton	<7	<7	+	<7	8	<7	<7	<7	<7	8	<7

			2015	<u>i</u>				2016	<u>i</u>		2017
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Danvers	40	20	43	35	138	31	45	39	22	137	28
Dartmouth	13	21	16	20	70	18	24	25	24	91	19
Dedham	14	12	<7	<7	36	13	24	13	†	50	<7
Deerfield	<7	<7	<7	†	<7	<7	<7	+	†	<7	†
Dennis	13	<7	8	<7	33	†	<7	9	*	17	9
Dighton	†	†	†	†	†	†	+	+	†	†	†
Douglas	<7	+	<7	+	<7	<7	<7	+	+	<7	+
Dover	+	+	+	+	†	+	+	+	+	†	+
Dracut	12	15	16	19	62	12	10	14	12	48	9
Dudley	+	*	<7	<7	13	+	<7	8	*	18	<7
Dunstable	+	+	<7	†	<7	+	+	<7	†	<7	<7
Duxbury	<7	<7	<7	<7	12	<7	<7	<7	<7	18	<7
East Bridgewater	†	†	†	†	†	†	+	†	<7	<7	†
East Brookfield	+	<7	+	<7	<7	+	+	+	<7	<7	+
East Longmeadow	<7	<7	<7	8	19	<7	8	<7	9	23	7
Eastham	<7	<7	<7	+	<7	<7	<7	<7	<7	9	<7
Easthampton	<7	<7	<7	+	<7	+	+	<7	+	<7	+
Easton	7	+	<7	<7	13	<7	<7	<7	+	<7	<7
Edgartown	+	<7	+	<7	<7	<7	<7	<7	<7	7	<7
Egremont	+	+	+	+	†	+	+	<7	+	<7	+
Erving	<7	+	+	+	<7	+	+	+	<7	<7	<7
Essex	<7	+	<7	†	<7	<7	<7	+	<7	<7	<7
Everett	37	27	36	29	129	34	55	48	38	175	38
Fairhaven	13	20	23	16	72	25	24	19	14	82	11
Fall River	20	66	156	185	427	151	155	297	226	829	193
Falmouth	32	33	18	13	96	23	56	46	45	170	40
Fitchburg	43	47	55	65	210	71	80	90	66	307	53
Florida	†	+	†	+	†	†	+	†	+	†	+
Foxborough	<7	†	<7	†	7	<7	<7	12	16	34	11
Framingham	43	57	42	36	178	29	60	66	55	210	42
Franklin	*	<7	8	7	25	<7	<7	<7	†	<7	<7
Freetown	†	†	†	†	+	†	†	†	+	+	†
Gardner	18	19	25	22	84	14	29	24	12	79	20
Georgetown	<7	<7	<7	<7	15	<7	<7	<7	<7	10	<7
Gill	+	+	†	†	†	+	<7	+	<7	<7	+

			2015	<u>i</u>				2016	<u>5</u>		2017
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Gloucester	26	22	31	23	102	39	30	29	9	107	+
Goshen	†	+	+	+	†	+	+	<7	†	<7	+
Gosnold	†	+	+	+	†	+	+	+	+	†	+
Grafton	<7	9	8	<7	23	<7	<7	<7	<7	16	<7
Granby	+	+	+	+	†	+	+	+	†	†	+
Granville	†	+	+	+	†	†	+	+	†	†	+
Great Barrington	<7	†	†	<7	<7	<7	<7	<7	<7	12	<7
Greenfield	<7	8	<7	13	32	10	7	21	9	47	10
Groton	†	+	+	+	†	<7	+	+	<7	<7	+
Groveland	†	+	<7	+	<7	<7	<7	<7	<7	<7	<7
Hadley	<7	<7	<7	7	12	7	<7	<7	<7	19	<7
Halifax	<7	+	8	<7	14	<7	7	<7	9	21	<7
Hamilton	†	<7	+	+	<7	+	+	+	+	†	+
Hampden	<7	<7	+	+	<7	+	<7	+	<7	<7	<7
Hancock	†	+	+	+	†	+	+	+	+	†	+
Hanover	<7	+	<7	+	<7	+	+	+	<7	<7	<7
Hanson	14	12	9	8	43	7	<7	9	<7	27	<7
Hardwick	+	+	+	+	†	+	+	+	†	†	+
Harvard	†	+	+	+	†	+	+	+	†	†	<7
Harwich	<7	†	<7	†	<7	†	<7	†	†	<7	9
Hatfield	<7	†	<7	†	<7	†	†	†	<7	<7	+
Haverhill	72	78	89	100	339	91	89	77	104	361	87
Hawley	†	†	†	†	†	†	+	†	†	†	†
Heath	+	<7	†	<7	<7	†	†	†	†	†	+
Hingham	<7	<7	<7	<7	11	<7	<7	<7	13	23	<7
Hinsdale	+	†	†	†	†	+	<7	+	†	<7	†
Holbrook	†	†	*	<7	14	15	14	21	17	67	16
Holden	<7	<7	<7	<7	13	<7	<7	<7	<7	14	<7
Holland	+	†	†	†	†	†	†	†	†	†	†
Holliston	+	†	<7	<7	<7	+	†	†	†	†	<7
Holyoke	54	61	57	92	264	81	86	64	75	306	55
Hopedale	<7	<7	†	†	<7	†	†	†	<7	<7	<7
Hopkinton	+	†	†	†	†	+	†	†	†	†	†
Hubbardston	<7	<7	†	†	<7	<7	<7	<7	†	7	<7
Hudson	<7	*	17	7	36	10	10	7	†	27	<7
Hull	<7	†	<7	†	<7	9	<7	<7	†	16	<7

may be due to no			2015					2016	<u>i</u>		2017
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Huntington	+	+	+	<7	<7	+	+	+	+	†	+
Ipswich	<7	<7	<7	<7	12	7	<7	<7	<7	20	8
Kingston	10	<7	8	<7	25	<7	<7	<7	<7	9	<7
Lakeville	<7	+	<7	<7	9	<7	<7	27	11	47	17
Lancaster	<7	<7	<7	<7	7	<7	<7	<7	<7	7	+
Lanesborough	+	+	+	+	†	+	+	+	<7	<7	+
Lawrence	132	86	109	94	421	191	96	161	170	618	142
Lee	+	<7	<7	†	<7	<7	<7	<7	<7	7	<7
Leicester	<7	<7	<7	<7	16	<7	<7	<7	<7	8	<7
Lenox	<7	+	+	<7	<7	+	<7	<7	+	<7	<7
Leominster	23	41	59	40	163	49	66	111	62	288	65
Leverett	+	+	+	†	†	+	+	+	+	†	<7
Lexington	<7	8	<7	<7	18	<7	<7	<7	+	9	+
Leyden	+	+	+	†	†	+	+	+	+	†	+
Lincoln	+	+	+	†	†	<7	+	<7	+	<7	+
Littleton	+	+	+	†	†	+	+	+	+	†	+
Longmeadow	<7	<7	<7	<7	15	<7	<7	<7	<7	13	<7
Lowell	124	153	185	144	606	179	179	197	218	773	202
Ludlow	<7	+	+	<7	<7	+	+	<7	+	<7	+
Lunenburg	<7	7	<7	<7	17	<7	<7	<7	<7	9	+
Lynn	53	90	63	73	279	92	108	132	114	446	110
Lynnfield	<7	<7	<7	<7	14	<7	<7	<7	<7	9	<7
Malden	22	83	50	33	188	36	56	61	39	192	29
Manchester	+	<7	<7	<7	<7	+	<7	<7	+	<7	<7
Mansfield	<7	<7	<7	+	<7	<7	9	10	<7	28	7
Marblehead	<7	<7	<7	<7	13	<7	*	14	8	35	8
Marion	<7	<7	<7	<7	9	<7	<7	<7	<7	<7	<7
Marlborough	12	17	14	11	54	21	13	9	+	43	<7
Marshfield	<7	+	+	+	<7	+	+	<7	+	<7	+
Mashpee	13	*	10	<7	36	<7	12	17	*	42	16
Mattapoisett	<7	<7	<7	<7	12	<7	7	<7	<7	13	<7
Maynard	7	<7	<7	<7	14	<7	<7	<7	<7	12	9
Medfield	+	<7	<7	†	<7	<7	<7	<7	<7	8	<7
Medford	25	28	39	30	122	40	42	34	21	137	13
Medway	<7	†	<7	<7	8	<7	<7	<7	10	21	7
Melrose	7	<7	13	<7	29	16	17	17	9	59	7

			2015	<u>i</u>			2017				
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Mendon	†	+	+	+	†	+	+	+	<7	<7	<7
Merrimac	<7	<7	<7	<7	14	<7	+	<7	<7	<7	<7
Methuen	24	11	11	14	60	17	13	13	14	57	7
Middleborough	+	+	+	+	†	+	+	<7	+	<7	<7
Middlefield	+	†	+	+	†	+	+	<7	+	<7	+
Middleton	<7	<7	<7	<7	<7	<7	<7	<7	+	12	<7
Milford	<7	<7	13	11	36	<7	14	22	*	54	13
Millbury	12	9	14	10	45	7	19	17	9	52	8
Millis	†	+	<7	+	<7	<7	<7	<7	7	17	<7
Millville	<7	<7	+	<7	<7	<7	<7	+	<7	7	<7
Milton	<7	7	12	<7	29	7	8	9	+	24	<7
Monroe	†	+	+	+	†	+	+	+	+	†	+
Monson	<7	<7	<7	<7	10	<7	<7	<7	<7	12	<7
Montague	<7	<7	<7	<7	15	*	10	7	<7	28	<7
Monterey	+	+	+	+	†	+	+	+	+	†	+
Montgomery	†	+	+	+	†	+	+	+	+	†	+
Mount Washington	†	+	+	†	†	+	†	+	+	+	+
Nahant	<7	<7	+	<7	7	<7	<7	+	<7	<7	+
Nantucket	<7	<7	+	<7	11	<7	<7	9	<7	18	<7
Natick	<7	<7	9	9	29	<7	9	*	10	33	7
Needham	†	+	+	+	†	<7	<7	<7	<7	<7	<7
New Ashford	+	+	+	+	†	+	+	+	+	+	+
New Bedford	151	174	212	146	683	115	151	213	148	627	117
New Braintree	†	<7	†	†	<7	†	+	†	<7	<7	†
New Marlborough	†	+	+	+	+	+	†	+	†	+	+
New Salem	+	+	+	+	†	+	+	+	+	†	+
Newbury	<7	<7	+	+	<7	<7	+	+	+	<7	+
Newburyport	<7	<7	<7	<7	17	<7	9	<7	11	24	<7
Newton	<7	20	*	9	43	11	12	15	16	54	16
Norfolk	<7	+	<7	<7	7	7	<7	<7	<7	17	<7
North Adams	<7	*	8	13	31	11	27	20	14	72	†
North Andover	<7	<7	<7	<7	16	12	11	18	13	54	15
North Attleboro	11	14	8	14	47	13	21	18	16	68	11
North Brookfield	†	†	<7	<7	<7	†	†	<7	<7	<7	†

may be due to ne			2015					2016	<u>i</u>		2017
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
North Reading	<7	<7	<7	†	11	<7	<7	8	<7	20	<7
Northampton	<7	7	19	<7	31	25	*	<7	21	67	26
Northborough	<7	+	<7	<7	<7	<7	<7	9	<7	21	<7
Northbridge	<7	7	<7	<7	22	<7	7	7	<7	22	<7
Northfield	+	+	+	+	†	+	+	+	+	†	+
Norton	<7	†	+	+	<7	†	*	<7	11	25	7
Norwell	<7	*	10	+	22	<7	7	<7	<7	19	<7
Norwood	+	<7	<7	<7	<7	<7	+	<7	11	18	13
Oak Bluffs	<7	<7	<7	<7	16	<7	<7	<7	<7	11	<7
Oakham	+	+	+	+	†	†	<7	<7	+	<7	<7
Orange	+	+	+	<7	<7	<7	<7	<7	7	11	8
Orleans	+	+	+	+	+	+	+	+	+	†	+
Otis	+	+	+	+	+	+	+	+	+	†	+
Oxford	9	<7	13	*	34	<7	10	23	<7	41	10
Palmer	<7	<7	<7	<7	12	+	<7	+	<7	<7	+
Paxton	<7	+	<7	+	<7	<7	<7	<7	<7	<7	<7
Peabody	37	27	30	27	121	34	43	41	42	160	33
Pelham	+	+	<7	+	<7	+	+	+	+	†	+
Pembroke	<7	13	12	*	36	8	9	8	17	42	13
Pepperell	<7	<7	8	<7	20	<7	<7	9	<7	20	<7
Peru	+	+	+	+	+	+	+	+	+	†	+
Petersham	+	<7	+	+	<7	†	<7	+	<7	<7	+
Phillipston	+	<7	+	+	<7	+	+	<7	+	<7	+
Pittsfield	28	21	36	56	141	31	27	27	29	114	31
Plainfield	+	+	+	+	†	†	+	+	+	†	+
Plainville	<7	<7	<7	<7	21	<7	<7	<7	11	23	7
Plymouth	57	46	35	46	184	37	60	45	39	181	49
Plympton	<7	<7	<7	+	<7	+	<7	<7	<7	<7	<7
Princeton	+	†	+	<7	<7	+	+	+	+	†	†
Provincetown	+	*	7	<7	15	<7	<7	<7	<7	10	<7
Quincy	86	88	41	86	301	55	113	119	117	404	85
Randolph	+	†	†	†	t	<7	30	*	24	73	19
Raynham	*	<7	18	7	38	<7	<7	7	12	31	<7
Reading	<7	†	†	†	<7	<7	<7	†	<7	<7	<7
Rehoboth	+	†	†	<7	<7	†	†	†	†	†	<7
Revere	44	61	75	59	239	50	80	85	71	286	50

			2015		io incluente			2016	<u>i</u>		2017
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Richmond	†	+	+	+	†	†	+	+	+	†	+
Rochester	†	<7	+	+	<7	<7	<7	<7	<7	8	<7
Rockland	12	7	18	12	49	41	27	23	22	113	17
Rockport	<7	+	<7	†	7	+	+	<7	<7	<7	<7
Rowe	+	+	+	†	†	†	+	+	+	†	+
Rowley	†	<7	+	<7	<7	<7	<7	<7	<7	8	+
Royalston	+	<7	<7	<7	<7	<7	<7	<7	+	<7	<7
Russell	†	<7	<7	†	<7	†	+	+	<7	<7	+
Rutland	+	<7	<7	†	<7	+	<7	<7	<7	10	<7
Salem	35	59	38	33	165	45	58	78	58	239	53
Salisbury	16	16	10	12	54	23	32	32	15	102	17
Sandisfield	+	+	+	†	†	†	<7	+	†	<7	<7
Sandwich	+	+	<7	†	<7	†	+	7	†	7	<7
Saugus	29	24	26	16	95	25	37	38	27	127	24
Savoy	†	+	+	†	†	†	+	+	+	†	+
Scituate	<7	<7	7	<7	20	<7	<7	9	<7	21	<7
Seekonk	†	†	†	†	†	†	+	+	†	†	†
Sharon	+	+	+	†	†	†	<7	7	<7	11	<7
Sheffield	+	+	+	†	†	†	+	<7	†	<7	†
Shelburne	†	<7	†	<7	<7	<7	+	+	<7	<7	<7
Sherborn	†	†	+	†	†	†	+	+	†	†	†
Shirley	<7	<7	<7	<7	9	<7	<7	7	†	11	<7
Shrewsbury	12	8	12	18	50	10	19	11	11	51	7
Shutesbury	<7	+	+	†	<7	†	+	<7	†	<7	†
Somerset	+	+	<7	†	<7	†	<7	<7	†	<7	<7
Somerville	17	42	38	44	141	38	52	54	49	193	25
South Hadley	<7	+	+	<7	<7	†	<7	+	†	<7	†
Southampton	+	<7	<7	<7	<7	+	<7	<7	<7	<7	<7
Southborough	†	†	<7	<7	<7	<7	<7	<7	<7	<7	†
Southbridge	+	†	†	<7	<7	<7	†	†	+	<7	†
Southwick	+	†	†	<7	<7	*	7	7	<7	26	7
Spencer	<7	†	<7	<7	9	<7	<7	<7	<7	12	<7
Springfield	116	160	162	264	702	210	224	183	205	822	128
Sterling	<7	†	<7	<7	7	<7	<7	<7	<7	12	<7
Stockbridge	†	†	<7	†	<7	†	†	†	†	†	<7
Stoneham	15	13	11	14	53	<7	23	*	12	52	9

may be due to no			2015					2017			
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Stoughton	7	12	17	12	48	10	21	12	11	54	13
Stow	<7	+	<7	<7	<7	+	<7	<7	+	<7	<7
Sturbridge	†	<7	<7	<7	<7	<7	11	<7	<7	25	<7
Sudbury	<7	<7	<7	+	10	+	<7	+	<7	<7	<7
Sunderland	<7	+	+	<7	<7	<7	<7	+	<7	<7	+
Sutton	<7	<7	<7	<7	12	<7	<7	<7	<7	12	<7
Swampscott	<7	<7	<7	<7	10	<7	9	<7	<7	24	<7
Swansea	<7	+	<7	<7	9	8	13	13	15	49	10
Taunton	77	76	83	77	313	74	115	72	54	315	37
Templeton	<7	10	<7	<7	20	<7	<7	<7	<7	13	<7
Tewksbury	+	<7	*	10	20	12	22	20	24	78	31
Tisbury	<7	<7	+	<7	<7	†	<7	+	<7	<7	<7
Tolland	+	+	+	+	†	†	+	+	+	†	+
Topsfield	<7	<7	<7	<7	9	†	+	<7	+	<7	<7
Townsend	<7	<7	<7	+	<7	+	+	<7	<7	<7	+
Truro	<7	+	+	+	<7	+	<7	+	+	<7	+
Tyngsborough	†	<7	+	<7	<7	<7	<7	<7	<7	18	<7
Tyringham	+	+	+	<7	<7	+	+	+	+	†	+
Upton	+	<7	<7	+	<7	<7	<7	<7	<7	<7	+
Uxbridge	<7	9	10	<7	30	9	<7	11	<7	29	<7
Wakefield	13	<7	*	10	38	10	11	16	16	53	9
Wales	+	+	+	+	†	†	+	+	+	+	+
Walpole	13	<7	<7	9	32	<7	9	*	13	35	10
Waltham	26	40	25	32	123	37	36	40	29	142	21
Ware	†	+	+	+	†	†	+	+	+	+	+
Wareham	30	33	41	22	126	28	33	41	32	134	39
Warren	<7	+	<7	<7	<7	<7	<7	+	<7	7	<7
Warwick	+	+	+	+	†	†	+	+	+	†	+
Washington	+	+	+	+	†	†	+	+	+	†	+
Watertown	23	22	15	8	68	28	23	7	22	80	<7
Wayland	+	+	<7	<7	<7	†	<7	<7	<7	<7	<7
Webster	*	+	†	<7	22	16	13	20	21	70	13
Wellesley	<7	<7	<7	<7	12	<7	<7	<7	<7	8	†
Wellfleet	†	<7	<7	<7	<7	<7	<7	<7	<7	9	+
Wendell	†	†	†	†	+	+	†	†	†	†	+
Wenham	+	+	+	<7	<7	<7	<7	+	+	<7	<7

			2015	<u>i</u>				2016	<u>i</u>		2017
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
West Boylston	<7	<7	<7	<7	10	<7	<7	<7	<7	12	<7
West Bridgewater	<7	<7	<7	<7	13	8	<7	<7	†	16	<7
West Brookfield	†	<7	†	†	<7	+	†	†	†	†	<7
West Newbury	<7	+	+	+	<7	<7	<7	+	<7	<7	+
West Springfield	†	†	†	†	†	†	†	†	†	†	†
West Stockbridge	<7	†	†	†	<7	†	†	†	†	†	<7
West Tisbury	†	†	<7	†	<7	<7	<7	†	†	<7	†
Westborough	<7	<7	+	†	<7	†	+	<7	†	<7	<7
Westfield	10	13	11	34	68	28	16	15	22	81	11
Westford	†	+	<7	<7	<7	8	<7	<7	<7	21	<7
Westhampton	†	<7	+	†	<7	†	+	+	+	†	<7
Westminster	<7	<7	<7	†	7	<7	<7	+	<7	7	<7
Weston	<7	<7	<7	†	<7	<7	<7	+	†	<7	+
Westport	†	†	†	†	†	†	†	†	†	†	+
Westwood	<7	<7	+	†	<7	<7	<7	<7	<7	14	<7
Weymouth	56	50	50	17	173	35	51	80	10	176	15
Whately	†	<7	+	†	<7	+	+	+	†	†	<7
Whitman	†	<7	8	<7	14	<7	*	9	18	40	9
Wilbraham	<7	<7	<7	<7	14	<7	8	<7	<7	18	<7
Williamsburg	†	†	†	†	†	†	<7	†	†	<7	<7
Williamstown	<7	<7	+	<7	8	<7	<7	+	†	<7	+
Wilmington	*	14	14	<7	40	11	*	9	<7	32	<7
Winchendon	<7	†	<7	<7	<7	<7	<7	<7	<7	15	†
Winchester	†	<7	<7	<7	<7	<7	<7	<7	9	16	<7
Windsor	†	†	+	†	†	+	†	+	<7	<7	+
Winthrop	<7	7	<7	10	29	12	18	21	7	58	<7
Woburn	31	23	14	22	90	40	37	30	26	133	40
Worcester	264	239	363	284	1150	267	337	382	314	1300	172
Worthington	†	†	†	†	†	†	†	†	†	†	†
Wrentham	<7	†	<7	<7	<7	*	12	12	<7	36	<7
Yarmouth	34	21	11	21	87	15	30	20	26	91	16
Unknown	378	292	415	360	1445	349	452	420	376	1597	279

^{*}Complementary suppression of the next smallest count was applied if only one count was < 7

Technical Notes

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