

## MA Opioid-Related EMS Incidents 2013-March 2018

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Massachusetts Department of Public Health

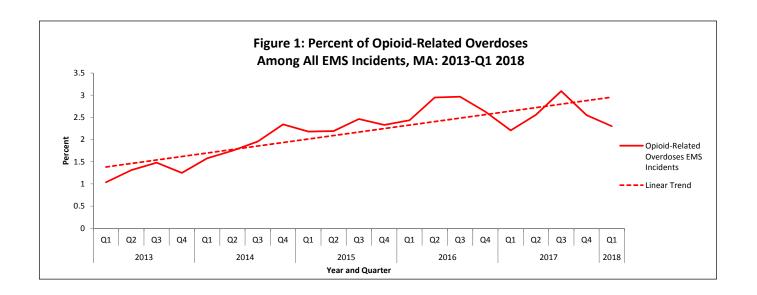
**Enhancement of Opioid Overdose Surveillance** 

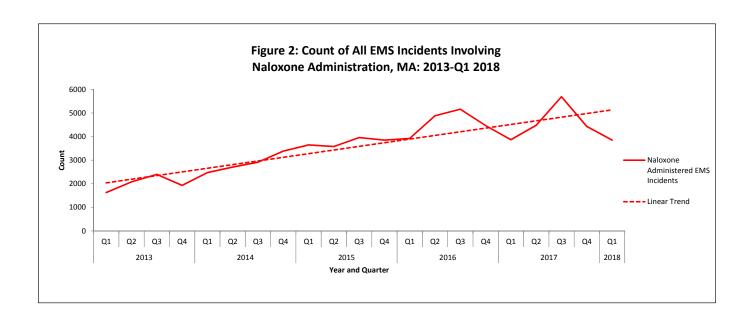
MATRIS, the Massachusetts Ambulance Trip Reporting Information System, is a statewide database for collecting emergency medical service (EMS) data from licensed ambulance services. It was not specifically designed to track opioid overdose incidents. DPH is currently working with all EMS providers to 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 three 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+ Tot												
Male	0	321	1,141	770	517	283	92	3,124					
Female	<5	174	507	325	215	161	82	1,464*					
Total	<5	495	1,648	1,095	732	444	174	4,588*					
					*Tc	otal of non-	-suppre	ssed cells					





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

Smallest count v		-	<u>2016</u>					2017			2018
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Bourne	18	28	32	12	90	15	30	17	22	84	5
Boxborough	<5	<5	5	7	18	+	<5	<5	<5	7	+
Boxford	+	<5	<5	<5	7	<5	<5	+	+	<5	<5
Boylston	+	<5	6	<5	9	+	+	<5	+	<5	+
Braintree	23	33	28	43	127	25	35	39	16	115	6
Brewster	<5	<5	+	<5	6	+	7	<5	<5	12	<5
Bridgewater	<5	6	+	<5	9	<5	<5	<5	<5	8	+
Brimfield	+	†	+	+	+	+	+	+	+	†	+
Brockton	191	261	256	180	888	186	164	253	91	694	15
Brookfield	+	<5	+	<5	<5	<5	<5	<5	<5	7	+
Brookline	9	7	6	11	33	12	18	10	13	53	9
Buckland	+	†	+	+	+	+	+	+	+	†	†
Burlington	*	<5	14	11	33	9	13	21	15	58	9
Cambridge	93	162	128	94	477	81	92	107	73	353	72
Canton	<5	13	*	10	34	7	7	9	14	37	7
Carlisle	+	†	+	+	+	+	+	5	+	5	+
Carver	13	12	15	13	53	11	12	11	9	43	<5
Charlemont	+	+	+	+	+	+	+	+	+	+	<5
Charlton	<5	†	+	<5	<5	<5	<5	<5	<5	11	<5
Chatham	<5	<5	<5	<5	7	5	<5	<5	<5	11	<5
Chelmsford	19	17	11	10	57	19	12	13	12	56	16
Chelsea	59	73	84	42	258	49	83	91	43	266	69
Cheshire	<5	+	<5	<5	<5	<5	<5	+	+	<5	<5
Chester	<5	<5	+	+	<5	<5	+	<5	+	<5	<5
Chesterfield	+	+	+	+	+	+	+	<5	+	<5	+
Chicopee	78	61	49	54	242	46	59	66	76	247	80
Chilmark	<5	+	<5	+	<5	+	+	+	<5	<5	<5
Clarksburg	+	+	+	+	+	+	+	+	+	+	+
Clinton	<5	13	*	28	55	6	12	14	17	49	9
Cohasset	+	†	<5	<5	5	+	<5	<5	<5	9	+
Colrain	†	+	+	+	+	+	+	+	†	+	<5
Concord	<5	7	<5	<5	18	<5	<5	<5	<5	9	<5
Conway	<5	†	+	+	<5	+	+	+	†	+	†
Cummington	†	†	+	+	+	+	+	<5	+	<5	+
Dalton	6	<5	<5	<5	12	<5	+	<5	+	6	+
Danvers	30	45	39	22	136	30	41	36	35	142	44

			<u>2016</u>					<u>2017</u>			<u>2018</u>
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Dartmouth	18	25	25	23	91	18	27	20	25	90	24
Dedham	13	26	13	5	57	16	15	21	15	67	13
Deerfield	<5	<5	†	†	<5	†	<5	†	<5	7	+
Dennis	<5	<5	9	7	18	11	11	20	14	56	7
Dighton	<5	*	†	†	7	<5	<5	†	†	<5	+
Douglas	<5	<5	†	†	6	†	†	†	<5	<5	<5
Dover	†	†	†	†	†	†	†	<5	†	<5	<5
Dracut	16	10	22	14	62	11	17	26	13	67	22
Dudley	†	<5	9	*	19	<5	7	*	7	23	5
Dunstable	†	†	<5	†	<5	<5	+	<5	<5	<5	<5
Duxbury	<5	6	<5	<5	18	<5	<5	<5	<5	10	<5
East Bridgewater	6	15	9	7	37	*	6	<5	9	24	6
East Brookfield	†	†	†	<5	<5	†	+	†	†	+	+
East Longmeadow	<5	8	*	9	23	7	<5	<5	6	19	5
Eastham	<5	<5	<5	<5	9	<5	<5	<5	+	8	<5
Easthampton	7	7	7	7	28	<5	5	10	<5	23	7
Easton	<5	<5	5	†	9	<5	<5	6	13	22	11
Edgartown	<5	<5	<5	<5	7	<5	<5	<5	†	5	+
Egremont	†	†	<5	†	<5	†	†	†	†	+	+
Erving	†	†	†	<5	<5	<5	†	†	<5	<5	+
Essex	<5	<5	†	<5	5	<5	<5	<5	<5	5	<5
Everett	36	57	49	41	183	39	43	49	39	170	37
Fairhaven	26	24	19	15	84	11	13	11	12	47	12
Fall River	151	156	299	228	834	195	169	247	246	857	165
Falmouth	23	55	46	45	169	40	48	29	33	150	36
Fitchburg	70	80	113	90	353	75	80	105	81	341	66
Florida	†	†	†	†	+	†	+	†	†	†	+
Foxborough	<5	<5	12	16	34	11	7	9	7	34	<5
Framingham	32	60	66	55	213	44	34	48	54	180	39
Franklin	5	17	16	6	44	16	15	*	<5	46	10
Freetown	*	<5	7	8	24	<5	<5	<5	<5	11	<5
Gardner	14	28	24	12	78	22	13	20	13	68	11
Georgetown	<5	<5	<5	<5	11	<5	<5	†	<5	7	5
Gill	<5	<5	†	<5	<5	†	+	†	†	†	+
Gloucester	39	33	29	15	116	17	27	32	30	106	27

			<u>2016</u>					<u>2017</u>			2018
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Goshen	†	+	<5	†	<5	†	+	†	+	+	+
Gosnold	+	+	+	+	†	†	+	†	+	+	+
Grafton	<5	<5	<5	5	15	*	7	10	<5	25	<5
Granby	<5	5	<5	<5	9	<5	+	<5	8	13	5
Granville	<5	†	†	†	<5	†	+	†	+	†	†
Great Barrington	<5	<5	<5	<5	12	<5	<5	<5	<5	10	<5
Greenfield	10	8	23	9	50	11	15	20	7	53	13
Groton	<5	+	+	<5	6	†	<5	†	†	<5	<5
Groveland	<5	<5	<5	<5	6	<5	<5	†	<5	5	†
Hadley	7	<5	*	5	19	<5	<5	7	<5	15	<5
Halifax	10	22	<5	*	45	*	<5	7	11	25	8
Hamilton	<5	<5	+	†	<5	<5	<5	<5	<5	6	+
Hampden	+	<5	+	<5	<5	<5	<5	<5	+	5	<5
Hancock	+	†	+	†	†	†	<5	†	†	<5	+
Hanover	6	*	<5	6	18	<5	5	5	<5	17	<5
Hanson	8	6	9	5	28	<5	9	<5	<5	21	10
Hardwick	<5	†	+	<5	<5	<5	†	†	†	<5	<5
Harvard	<5	+	+	<5	<5	<5	†	†	<5	<5	+
Harwich	<5	7	6	*	19	11	6	11	8	36	6
Hatfield	<5	+	+	<5	<5	†	<5	<5	+	6	<5
Haverhill	92	90	77	105	364	87	85	121	76	369	75
Hawley	+	+	+	+	†	+	+	+	+	+	+
Heath	+	†	+	†	†	<5	†	†	<5	<5	+
Hingham	<5	<5	<5	14	25	<5	<5	5	<5	14	<5
Hinsdale	+	<5	+	†	<5	†	+	+	+	†	+
Holbrook	16	17	21	18	72	17	18	17	9	61	8
Holden	<5	<5	5	<5	13	<5	<5	5	<5	11	<5
Holland	†	+	+	+	†	†	†	<5	+	<5	<5
Holliston	+	+	+	†	†	<5	<5	<5	5	14	<5
Holyoke	79	86	62	74	301	55	49	65	57	226	81
Hopedale	+	+	+	<5	<5	<5	<5	<5	<5	7	<5
Hopkinton	<5	<5	<5	+	10	<5	6	<5	<5	13	5
Hubbardston	+	<5	<5	+	6	<5	<5	<5	+	7	<5
Hudson	11	*	13	<5	36	<5	*	7	9	24	6
Hull	11	*	<5	+	18	<5	<5	<5	+	8	<5

Smallest count w			<u>2016</u>					<u>2017</u>			2018
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Huntington	†	+	<5	†	<5	+	†	<5	†	<5	<5
Ipswich	7	<5	6	*	22	8	7	<5	*	22	<5
Kingston	6	<5	<5	9	20	6	*	9	<5	24	12
Lakeville	<5	*	31	14	56	21	15	22	17	75	5
Lancaster	<5	<5	<5	<5	8	+	<5	<5	<5	6	<5
Lanesborough	†	+	+	6	6	+	<5	<5	†	<5	+
Lawrence	197	100	170	179	646	150	178	242	207	777	180
Lee	<5	<5	<5	<5	7	<5	<5	<5	<5	10	<5
Leicester	*	<5	6	10	25	9	6	6	8	29	6
Lenox	+	<5	<5	<5	6	<5	5	<5	<5	16	†
Leominster	50	67	113	63	293	68	56	70	56	250	46
Leverett	+	+	+	+	+	<5	+	+	+	<5	†
Lexington	<5	<5	8	<5	16	5	<5	5	<5	16	<5
Leyden	†	+	+	†	+	+	+	+	†	+	†
Lincoln	<5	+	<5	†	<5	+	<5	<5	<5	8	+
Littleton	<5	6	<5	<5	15	<5	<5	<5	<5	9	+
Longmeadow	6	<5	<5	<5	13	<5	<5	<5	<5	10	<5
Lowell	193	187	216	241	837	269	309	322	237	1137	266
Ludlow	11	14	6	13	44	10	6	13	10	39	9
Lunenburg	<5	7	9	<5	23	<5	+	<5	<5	6	<5
Lynn	97	113	137	123	470	117	147	172	150	586	117
Lynnfield	<5	<5	<5	<5	9	5	<5	<5	<5	11	<5
Malden	37	61	62	42	202	31	55	76	42	204	52
Manchester	†	<5	<5	+	5	<5	<5	+	<5	6	†
Mansfield	<5	9	10	*	28	7	10	6	17	40	8
Marblehead	5	8	15	8	36	9	<5	*	10	28	<5
Marion	<5	<5	<5	<5	6	<5	<5	<5	<5	9	<5
Marlborough	21	13	19	13	66	<5	*	16	17	44	19
Marshfield	8	16	12	7	43	8	7	12	16	43	8
Mashpee	<5	12	17	*	42	16	*	<5	10	35	8
Mattapoisett	<5	7	<5	<5	13	<5	<5	6	5	15	6
Maynard	<5	<5	5	<5	12	9	9	<5	<5	23	<5
Medfield	<5	<5	<5	<5	8	5	<5	<5	<5	9	+
Medford	41	42	34	21	138	14	24	27	27	92	18
Medway	<5	<5	5	8	19	*	8	17	<5	35	8
Melrose	16	17	17	9	59	*	<5	15	7	33	9

Smallest count we			<u>2016</u>					<u>2017</u>			2018
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Mendon	+	+	+	<5	<5	<5	<5	+	<5	7	<5
Merrimac	<5	+	<5	<5	5	<5	<5	7	<5	15	6
Methuen	47	53	62	51	213	28	49	60	55	192	34
Middleborough	10	20	5	†	35	<5	<5	<5	<5	9	<5
Middlefield	†	†	<5	+	<5	†	<5	+	†	<5	+
Middleton	<5	*	5	+	12	<5	<5	6	7	19	13
Milford	6	14	23	13	56	13	24	12	16	65	19
Millbury	7	19	17	8	51	8	12	10	14	44	8
Millis	<5	5	<5	8	18	6	<5	5	<5	15	7
Millville	<5	<5	+	<5	7	†	+	<5	<5	5	<5
Milton	7	12	9	8	36	9	9	9	5	32	8
Monroe	+	+	+	+	+	+	+	+	+	+	†
Monson	<5	<5	5	<5	12	<5	<5	6	<5	14	<5
Montague	*	10	8	<5	29	6	*	8	<5	23	<5
Monterey	+	+	+	+	+	+	+	+	+	+	†
Montgomery	†	+	+	+	+	+	+	+	+	+	†
Mount Washington	†	†	+	+	+	†	+	†	†	†	+
Nahant	<5	<5	+	<5	6	+	<5	<5	+	6	<5
Nantucket	6	<5	9	<5	18	<5	<5	<5	<5	10	<5
Natick	6	9	8	10	33	7	6	8	9	30	8
Needham	<5	<5	<5	6	15	<5	+	<5	<5	7	<5
New Ashford	+	+	+	+	+	+	+	+	+	+	+
New Bedford	116	153	221	216	706	118	199	231	129	677	141
New Braintree	†	†	+	<5	<5	†	<5	+	†	<5	+
New Marlborough	t	+	+	+	+	†	<5	†	†	<5	+
New Salem	†	†	+	+	+	†	<5	+	†	<5	+
Newbury	<5	+	+	+	<5	<5	<5	+	<5	6	†
Newburyport	<5	9	<5	11	24	<5	<5	8	<5	16	<5
Newton	11	13	15	16	55	17	16	15	17	65	18
Norfolk	7	<5	<5	<5	18	<5	<5	<5	<5	6	<5
North Adams	11	27	22	14	74	9	9	17	13	48	12
North Andover	12	11	19	15	57	18	12	16	24	70	13
North Attleboro	13	21	18	16	68	10	25	21	22	78	21
North Brookfield	†	†	<5	<5	5	†	†	†	<5	<5	<5

Smallest count w			<u>2016</u>					2017			2018
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
North Reading	5	<5	9	<5	21	<5	9	<5	<5	17	<5
Northampton	26	*	<5	22	71	25	20	16	20	81	15
Northborough	7	<5	10	<5	24	<5	<5	6	<5	12	<5
Northbridge	*	7	7	<5	22	<5	*	9	6	25	+
Northfield	+	+	†	†	+	†	+	<5	<5	<5	<5
Norton	+	9	6	11	26	9	<5	9	*	28	5
Norwell	5	7	<5	<5	19	<5	7	<5	5	19	<5
Norwood	<5	†	<5	11	18	13	13	15	12	53	8
Oak Bluffs	5	<5	5	<5	14	<5	†	<5	<5	5	<5
Oakham	+	<5	<5	+	<5	<5	+	<5	+	<5	<5
Orange	<5	<5	<5	6	10	8	<5	<5	<5	18	<5
Orleans	+	†	+	+	+	5	<5	<5	+	9	<5
Otis	+	†	+	+	+	+	+	<5	+	<5	+
Oxford	*	10	22	<5	40	11	*	<5	11	34	<5
Palmer	+	<5	+	<5	<5	<5	8	*	9	28	8
Paxton	<5	<5	<5	<5	6	<5	<5	<5	+	5	<5
Peabody	34	44	42	43	163	34	37	51	41	163	44
Pelham	+	†	+	+	+	+	†	+	+	+	+
Pembroke	9	9	8	17	43	12	8	8	5	33	7
Pepperell	<5	<5	9	<5	20	<5	†	7	<5	14	7
Peru	+	†	+	+	+	+	†	+	+	+	+
Petersham	+	<5	+	<5	<5	+	+	+	+	+	+
Phillipston	+	†	<5	+	<5	+	†	+	+	+	+
Pittsfield	38	40	30	40	148	35	29	57	38	159	33
Plainfield	+	†	+	+	+	+	<5	<5	+	<5	<5
Plainville	<5	5	<5	11	23	7	*	<5	6	23	<5
Plymouth	38	60	49	43	190	50	58	69	42	219	<5
Plympton	+	<5	<5	<5	6	<5	<5	+	+	<5	+
Princeton	+	†	+	+	+	+	<5	<5	<5	5	<5
Provincetown	<5	<5	<5	<5	11	<5	<5	<5	+	9	+
Quincy	57	123	131	122	433	89	101	164	42	396	15
Randolph	30	30	16	24	100	20	13	21	24	78	10
Raynham	6	6	7	13	32	6	10	12	9	37	13
Reading	6	6	7	7	26	<5	5	<5	<5	13	<5
Rehoboth	†	†	+	+	†	<5	<5	<5	<5	8	†
Revere	52	81	92	76	301	52	69	82	54	257	63

Smallest count w			<u>2016</u>			2017					2018
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Richmond	+	+	+	+	+	+	+	+	+	+	+
Rochester	<5	<5	<5	<5	8	<5	+	<5	<5	7	<5
Rockland	42	28	24	22	116	17	19	23	20	79	17
Rockport	†	†	<5	<5	6	<5	*	†	6	13	+
Rowe	+	+	†	†	+	+	+	†	+	+	+
Rowley	<5	<5	<5	<5	8	+	<5	+	+	<5	+
Royalston	<5	<5	<5	+	<5	<5	+	+	<5	<5	<5
Russell	+	†	+	<5	<5	+	<5	+	+	<5	<5
Rutland	+	<5	<5	5	10	5	<5	<5	<5	13	<5
Salem	47	62	78	60	247	54	56	78	44	232	39
Salisbury	25	33	33	17	108	19	25	34	29	107	17
Sandisfield	+	<5	+	+	<5	<5	+	+	+	<5	+
Sandwich	+	†	8	6	14	14	9	5	11	39	10
Saugus	26	37	38	28	129	25	31	32	28	116	30
Savoy	+	†	+	+	+	+	+	+	+	+	+
Scituate	<5	5	9	<5	21	<5	<5	6	<5	13	<5
Seekonk	<5	7	10	*	26	<5	10	8	*	29	<5
Sharon	+	<5	8	<5	12	<5	<5	<5	7	16	5
Sheffield	<5	+	<5	+	<5	+	<5	<5	<5	7	+
Shelburne	<5	†	+	<5	<5	<5	+	<5	+	<5	+
Sherborn	+	†	+	<5	<5	+	+	+	<5	<5	<5
Shirley	<5	<5	9	+	13	*	<5	7	5	21	6
Shrewsbury	10	19	11	11	51	7	16	13	18	54	21
Shutesbury	+	†	+	+	†	+	+	+	+	+	<5
Somerset	13	17	11	9	50	8	10	14	15	47	12
Somerville	39	52	56	50	197	27	39	43	24	133	30
South Hadley	+	<5	†	<5	<5	+	+	<5	<5	<5	<5
Southampton	+	<5	<5	<5	6	<5	<5	+	<5	<5	+
Southborough	<5	<5	<5	<5	6	+	+	<5	<5	5	<5
Southbridge	11	26	22	37	96	8	14	20	6	48	7
Southwick	11	11	7	5	34	8	<5	<5	8	23	5
Spencer	<5	<5	<5	<5	12	<5	*	7	10	24	<5
Springfield	182	198	164	177	721	115	172	205	154	646	167
Sterling	<5	6	5	<5	13	<5	<5	<5	<5	8	5
Stockbridge	+	†	+	+	+	<5	+	+	<5	<5	+
Stoneham	6	23	11	12	52	9	6	18	6	39	12

			<u>2016</u>					<u>2017</u>			2018
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Stoughton	10	21	12	11	54	14	16	16	13	59	25
Stow	+	<5	<5	+	5	<5	6	<5	<5	13	<5
Sturbridge	6	11	*	<5	25	<5	<5	<5	8	17	<5
Sudbury	†	<5	†	<5	5	<5	+	<5	<5	5	<5
Sunderland	<5	<5	<5	<5	6	†	<5	†	+	<5	<5
Sutton	<5	<5	<5	<5	12	<5	<5	<5	<5	12	6
Swampscott	5	9	5	6	25	<5	<5	5	<5	15	<5
Swansea	8	13	13	15	49	10	<5	17	<5	34	9
Taunton	75	117	73	59	324	39	75	90	41	245	<5
Templeton	5	<5	5	<5	13	5	<5	6	<5	15	<5
Tewksbury	12	24	21	24	81	37	41	29	20	127	41
Tisbury	+	<5	+	<5	<5	<5	<5	<5	+	7	+
Tolland	+	+	+	+	+	†	+	+	+	+	+
Topsfield	+	+	5	+	5	<5	6	+	<5	8	<5
Townsend	6	<5	<5	<5	15	<5	<5	+	<5	10	5
Truro	+	<5	+	+	<5	†	+	+	<5	<5	<5
Tyngsborough	<5	<5	6	7	19	<5	*	6	6	19	8
Tyringham	†	+	+	+	+	†	+	†	+	+	+
Upton	<5	<5	<5	<5	6	†	5	<5	<5	10	<5
Uxbridge	9	*	11	<5	29	*	<5	7	6	22	<5
Wakefield	10	11	18	15	54	10	17	18	13	58	9
Wales	†	†	†	†	†	†	+	<5	<5	<5	<5
Walpole	6	10	9	12	37	9	*	8	<5	29	10
Waltham	38	36	40	30	144	20	35	45	25	125	34
Ware	9	*	5	<5	23	<5	6	11	<5	22	8
Wareham	28	33	40	32	133	39	36	47	50	172	34
Warren	5	<5	+	<5	9	6	<5	<5	+	13	<5
Warwick	+	+	+	+	+	†	<5	+	+	<5	+
Washington	+	+	+	+	+	+	†	+	<5	<5	+
Watertown	28	23	7	22	80	5	11	15	13	44	15
Wayland	+	<5	<5	<5	<5	<5	<5	<5	+	5	<5
Webster	16	14	20	22	72	13	18	23	17	71	14
Wellesley	<5	<5	<5	6	12	<5	<5	<5	6	14	<5
Wellfleet	<5	<5	<5	<5	9	+	5	<5	<5	10	+
Wendell	+	+	+	+	†	†	+	+	+	+	+
Wenham	<5	<5	+	+	<5	<5	+	<5	<5	<5	+

			<u>2016</u>					<u>2017</u>			2018
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
West Boylston	<5	<5	<5	5	12	6	<5	<5	6	16	5
West Bridgewater	7	<5	<5	†	15	<5	5	<5	10	21	<5
West Brookfield	†	+	+	†	+	<5	<5	<5	5	10	<5
West Newbury	<5	<5	+	<5	5	†	+	<5	+	<5	<5
West Springfield	30	29	19	29	107	11	15	40	23	89	23
West Stockbridge	†	†	+	†	+	<5	†	†	†	<5	†
West Tisbury	<5	<5	+	+	<5	+	<5	<5	+	<5	+
Westborough	14	26	25	22	87	14	26	15	11	66	12
Westfield	28	15	16	21	80	11	14	15	20	60	27
Westford	8	<5	<5	5	20	5	9	5	6	25	7
Westhampton	+	+	+	+	†	<5	+	+	+	<5	<5
Westminster	<5	<5	+	<5	7	<5	5	<5	8	19	5
Weston	<5	<5	+	<5	5	9	<5	<5	+	11	<5
Westport	*	9	<5	10	28	7	8	6	5	26	9
Westwood	<5	<5	<5	<5	14	<5	6	<5	5	13	+
Weymouth	35	61	81	37	214	50	57	70	62	239	50
Whately	†	†	†	†	†	<5	<5	†	<5	<5	†
Whitman	7	7	10	18	42	9	6	19	9	43	13
Wilbraham	<5	7	<5	6	17	<5	6	*	5	20	6
Williamsburg	†	<5	†	†	<5	<5	<5	<5	†	<5	<5
Williamstown	<5	<5	<5	<5	9	†	<5	<5	+	<5	<5
Wilmington	17	10	*	<5	40	6	11	16	20	53	19
Winchendon	<5	<5	6	6	17	†	5	5	6	16	7
Winchester	6	<5	<5	7	18	<5	†	<5	<5	7	<5
Windsor	†	†	†	<5	<5	†	†	†	†	†	+
Winthrop	13	18	21	8	60	<5	*	9	9	30	9
Woburn	42	38	36	28	144	43	36	45	28	152	31
Worcester	327	396	480	408	1611	262	361	448	432	1503	283
Worthington	†	+	<5	+	<5	†	+	†	+	+	†
Wrentham	*	12	11	<5	35	6	6	7	6	25	<5
Yarmouth	15	31	20	26	92	16	29	35	17	97	10
Unknown	66	116	109	72	363	51	49	62	49	211	35
<b>Grand Total</b>	4744	5956	6327	5389	22416	4619	5509	6808	5277	22213	4,640

## **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, under B010T009024, NU17CE924877, and 1U17CE002724. 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.