

Opioid-Related EMS Incidents Massachusetts Residents: 2013-2016

Massachusetts Department of Public Health

POSTED: MAY 2017

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). Not all services have reported their 2016 Q1-Q4 data yet so the numbers cited here are underestimates. Counts will be updated on a quarterly basis.

Results

Since 2013, there has been an increasing trend in the percentage of EMS incidents that are considered opioid-related. In 2016 EMS services reported an opioid-related incident in 301 of the 351 MA cities and towns (86%). Overall, there was a 22% increase in the number of opioid-related EMS transport incidents compared with 2015.

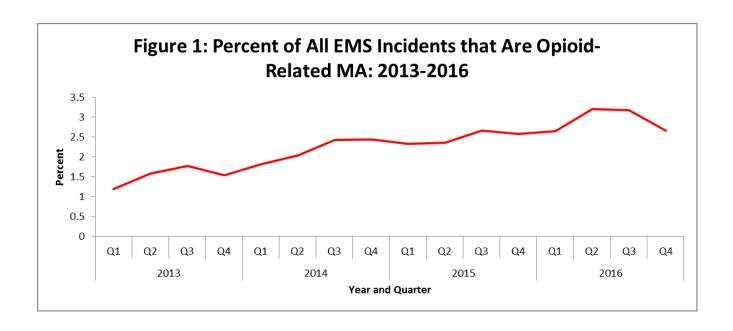
In 2016, the greatest number of suspected opioid overdose incidents was among males aged 25-34 (25% of opioid-related incidents). There is an increasing trend in the quantity of Naloxone being dispensed during each opioid-related incident. On average, EMS administered Naloxone 1.4 times per opioid-related incident in the 2016. Almost one third of opioid-related incidents required more than one dose of Naloxone.

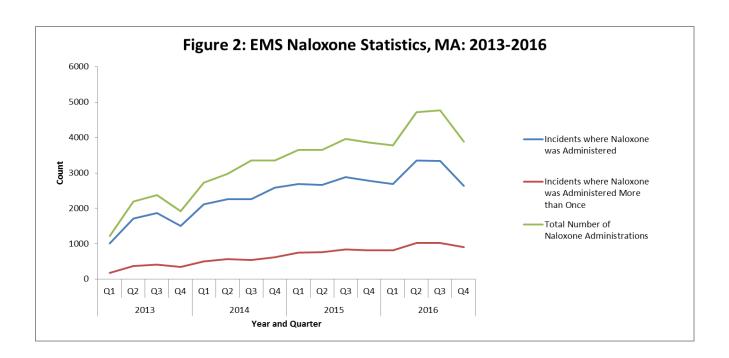
	<15	15-24	25-34	35-44	45-54	55-64	65+	Total				
Male	10	400	1305	774	505	320	140	3454				
Female	8	243	575	320	244	166	116	1672				
Total	18	643	1880	1094	749	486	256	5126				

	P	All Suspected	Opioid Rela	ted Incidents	s: 2016 (Q ua	rter 2)		
	<15	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	<7	383	1178	625	460	250	130	3026
Female	<7	255	579	282	258	135	112	1621
Total	7	638	1757	907	718	385	242	4647

	A	All Suspected	Opioid Relat	ted Incidents	:: 2016 (Q uai	rter 3)		
	<15	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	8	518	1600	973	628	399	200	4326
Female	15	290	865	451	304	199	125	2249
Total		808	2465	1424	932	598	325	6575

	Male 12 391 1297 695 486 310 148 33										
	<15	15-24	25-34	35-44	45-54	55-64	65+	Total			
Male	12	391	1297	695	486	310	148	3339			
Female	8	250	629	357	254	154	116	1768			
Total		641	1926	1052	740	464	264	5107			





			<u>2015</u>	<u> </u>				<u>2016</u>	2016				
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total			
Abington	*	17	<7	0	32	13	10	12	12	47			
Acton	10	<7	8	*	28	<7	7	<7	<7	24			
Acushnet	<7	0	0	0	<7	0	<7	0	0	<7			
Adams	0	0	0	0	0	0	0	0	0	0			
Agawam	<7	<7	<7	22	30	19	8	19	14	60			
Alford	0	0	0	0	0	0	0	0	0	0			
Amesbury	<7	14	*	9	36	20	27	15	17	79			
Amherst	0	0	0	0	0	<7	0	0	0	<7			
Andover	10	11	*	<7	33	<7	8	13	*	32			
Aquinnah	0	0	0	0	0	0	0	0	0	0			
Arlington	17	20	36	24	97	19	24	17	9	69			
Ashburnham	0	0	0	0	0	0	<7	0	0	<7			
Ashby	0	0	<7	<7	<7	<7	<7	<7	<7	12			
Ashfield	0	0	0	<7	<7	0	0	0	<7	<7			
Ashland	<7	<7	<7	<7	11	<7	*	7	8	25			
Athol	<7	11	*	15	41	<7	*	13	19	46			
Attleboro	33	23	32	22	110	26	43	39	43	151			
Auburn	<7	0	<7	10	16	<7	<7	12	9	33			
Avon	<7	<7	<7	<7	18	<7	<7	<7	7	22			
Ayer	0	<7	0	0	<7	10	<7	<7	11	29			
Barnstable	108	68	80	58	314	53	63	68	68	252			
Barre	<7	<7	<7	<7	13	<7	<7	<7	<7	9			
Becket	0	<7	0	0	<7	0	0	0	0	0			
Bedford	<7	8	<7	<7	18	*	10	9	<7	32			
Belchertown	<7	0	<7	<7	<7	<7	0	0	<7	<7			
Bellingham	12	<7	*	11	36	9	12	12	13	46			
Belmont	7	8	<7	<7	22	10	13	7	7	37			
Berkley	<7	0	<7	<7	8	<7	<7	<7	<7	12			
Berlin	<7	<7	<7	<7	<7	<7	<7	0	<7	7			
Bernardston	0	0	0	0	0	0	0	0	<7	<7			
Beverly	24	28	36	23	111	28	37	30	34	129			
Billerica	7	10	7	0	24	21	12	33	15	81			
Blackstone	<7	<7	<7	<7	11	<7	<7	<7	<7	7			
Blandford	0	0	0	0	0	0	0	0	0	0			
Bolton	<7	<7	<7	<7	12	<7	<7	<7	<7	12			
Boston	488	464	523	495	1970	419	652	695	26	1792			

			2015	<u>i</u>		<u>2016</u>				
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Bourne	<7	*	25	20	57	20	30	42	17	109
Boxborough	<7	0	<7	0	<7	<7	<7	<7	7	19
Boxford	<7	<7	<7	<7	<7	0	<7	<7	<7	8
Boylston	0	0	<7	<7	<7	0	<7	<7	<7	9
Braintree	32	19	19	32	102	30	37	34	47	148
Brewster	13	<7	8	<7	29	<7	<7	<7	<7	9
Bridgewater	<7	<7	<7	<7	9	<7	7	0	<7	10
Brimfield	0	0	0	0	0	0	0	0	0	0
Brockton	233	185	101	198	717	203	287	288	213	991
Brookfield	<7	<7	0	<7	<7	<7	<7	0	<7	8
Brookline	11	14	7	8	40	13	*	9	<7	33
Buckland	0	0	0	0	0	0	0	0	0	0
Burlington	13	<7	<7	8	29	*	<7	15	17	44
Cambridge	77	100	100	91	368	99	187	146	110	542
Canton	<7	<7	<7	<7	11	<7	14	*	12	38
Carlisle	<7	0	0	0	<7	0	0	0	<7	<7
Carver	7	<7	*	10	28	13	12	16	15	56
Charlemont	0	0	0	0	0	0	0	0	0	0
Charlton	0	0	0	0	0	<7	0	0	<7	<7
Chatham	<7	0	0	0	<7	<7	<7	<7	<7	11
Chelmsford	7	14	21	10	52	19	17	10	11	57
Chelsea	36	72	90	82	280	66	84	97	50	297
Cheshire	0	0	0	<7	<7	<7	0	<7	<7	<7
Chester	0	0	0	<7	<7	0	0	0	<7	<7
Chesterfield	0	0	0	0	0	0	0	0	0	0
Chicopee	27	49	32	51	159	50	36	37	35	158
Chilmark	0	0	<7	0	<7	<7	0	<7	0	<7
Clarksburg	0	0	0	0	0	0	0	0	0	0
Clinton	10	13	14	9	46	<7	13	*	31	62
Cohasset	<7	<7	<7	<7	7	<7	<7	<7	<7	11
Colrain	0	<7	0	0	<7	0	0	0	0	0
Concord	<7	8	<7	<7	24	<7	8	7	<7	24
Conway	0	0	0	0	0	<7	0	0	0	<7
Cummington	0	0	0	0	0	0	0	0	0	0
Dalton	<7	<7	0	<7	8	<7	<7	<7	<7	10
Danvers	45	24	48	39	156	38	53	49	27	167

			2015	<u>5</u>		2016					
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	
Dartmouth	14	22	19	20	75	20	26	25	25	96	
Dedham	18	15	7	9	49	14	26	15	0	55	
Deerfield	<7	<7	<7	0	9	<7	<7	0	0	<7	
Dennis	16	*	10	<7	39	<7	<7	11	*	23	
Dighton	<7	<7	<7	<7	12	<7	7	<7	0	10	
Douglas	<7	0	<7	0	<7	<7	<7	0	0	9	
Dover	0	<7	0	0	<7	0	<7	<7	0	<7	
Dracut	12	15	16	22	65	14	11	14	12	51	
Dudley	0	12	<7	<7	17	0	<7	9	*	19	
Dunstable	0	0	<7	0	<7	0	0	<7	0	<7	
Duxbury	<7	<7	<7	<7	13	<7	<7	<7	<7	18	
East Bridgewater	22	<7	*	13	50	9	19	10	9	47	
East Brookfield	0	<7	0	<7	<7	0	0	0	<7	<7	
East Longmeadow	<7	<7	<7	8	19	<7	8	<7	10	24	
Eastham	<7	<7	<7	<7	16	<7	<7	<7	<7	12	
Easthampton	<7	<7	<7	0	<7	0	0	<7	0	<7	
Easton	7	0	<7	<7	14	<7	<7	<7	0	10	
Edgartown	0	<7	<7	<7	<7	<7	<7	<7	<7	9	
Egremont	0	0	0	0	0	0	0	0	0	0	
Erving	<7	0	0	<7	<7	0	0	0	<7	<7	
Essex	<7	0	<7	0	<7	<7	<7	<7	<7	<7	
Everett	41	29	41	34	145	40	62	55	48	205	
Fairhaven	13	24	24	18	79	27	29	22	16	94	
Fall River	20	71	166	198	455	166	168	314	243	891	
Falmouth	35	39	28	17	119	31	61	53	47	192	
Fitchburg	53	54	61	74	242	77	89	102	74	342	
Florida	0	0	0	0	0	0	0	0	0	0	
Foxborough	<7	0	<7	0	9	<7	<7	13	16	35	
Framingham	44	64	49	40	197	34	67	69	61	231	
Franklin	9	<7	10	*	32	<7	<7	<7	0	<7	
Freetown	0	0	0	<7	<7	0	0	0	0	0	
Gardner	24	22	30	27	103	14	29	24	18	85	
Georgetown	<7	<7	<7	9	21	7	<7	<7	7	20	
Gill	0	0	0	0	0	<7	<7	0	<7	<7	
Gloucester	30	31	35	30	126	44	36	35	11	126	

			<u>2015</u>	<u>5</u>				<u>2016</u>		
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Goshen	0	0	0	0	0	0	<7	<7	0	<7
Gosnold	0	0	0	0	0	0	0	0	0	0
Grafton	<7	9	10	<7	26	<7	<7	<7	<7	17
Granby	<7	<7	<7	<7	10	<7	7	<7	<7	11
Granville	0	<7	<7	<7	<7	<7	0	0	<7	<7
Great Barrington	<7	0	0	<7	<7	<7	<7	<7	<7	15
Greenfield	<7	10	*	13	36	15	12	30	12	69
Groton	0	0	0	<7	<7	<7	0	0	<7	7
Groveland	<7	0	<7	0	<7	<7	<7	<7	<7	<7
Hadley	<7	<7	<7	8	16	7	<7	<7	<7	15
Halifax	<7	0	9	<7	17	<7	7	<7	11	24
Hamilton	0	<7	<7	<7	<7	<7	<7	0	0	<7
Hampden	<7	<7	0	0	<7	0	<7	0	<7	<7
Hancock	0	0	0	0	0	0	0	0	0	0
Hanover	<7	0	<7	0	<7	0	0	0	<7	<7
Hanson	17	16	11	10	54	8	*	9	<7	31
Hardwick	0	0	0	0	0	0	0	0	0	0
Harvard	<7	<7	<7	0	<7	<7	0	<7	0	<7
Harwich	10	<7	*	13	34	<7	*	10	8	26
Hatfield	<7	0	<7	0	<7	0	<7	0	<7	<7
Haverhill	78	91	98	105	372	96	96	82	111	385
Hawley	0	0	0	0	0	0	0	0	0	0
Heath	0	<7	0	<7	<7	0	0	0	0	0
Hingham	<7	<7	<7	7	20	<7	7	<7	17	36
Hinsdale	0	0	0	0	0	0	0	0	0	0
Holbrook	0	0	*	<7	19	18	15	23	14	70
Holden	<7	7	<7	<7	19	<7	<7	<7	<7	16
Holland	0	0	0	0	0	0	0	0	0	0
Holliston	0	0	<7	<7	<7	0	0	0	0	0
Holyoke	58	61	60	94	273	85	92	67	81	325
Hopedale	<7	<7	<7	<7	13	0	0	0	<7	<7
Hopkinton	<7	<7	<7	0	<7	0	<7	0	0	<7
Hubbardston	<7	<7	0	0	<7	<7	<7	<7	0	9
Hudson	<7	*	19	7	38	12	12	7	0	31
Hull	<7	0	*	0	10	13	<7	<7	<7	21
Huntington	0	0	0	0	0	0	0	0	0	0

			<u>2015</u>	<u>i</u>	<u>2016</u>					
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Ipswich	<7	<7	<7	<7	17	8	<7	8	<7	26
Kingston	10	<7	9	<7	29	<7	<7	<7	<7	12
Lakeville	<7	0	<7	<7	16	<7	*	33	19	67
Lancaster	<7	<7	<7	<7	10	<7	<7	<7	<7	11
Lanesborough	0	0	0	0	0	0	0	0	<7	<7
Lawrence	137	92	117	104	450	206	108	171	185	670
Lee	0	<7	<7	0	<7	<7	<7	<7	<7	10
Leicester	0	0	0	0	0	<7	0	0	0	<7
Lenox	<7	0	0	<7	<7	0	<7	<7	0	<7
Leominster	34	45	67	41	187	55	75	128	69	327
Leverett	0	0	0	0	0	0	0	0	0	0
Lexington	<7	10	<7	<7	22	<7	<7	11	<7	21
Leyden	0	0	0	0	0	0	0	0	0	0
Lincoln	<7	0	0	0	<7	<7	0	<7	<7	<7
Littleton	0	<7	<7	<7	7	<7	7	<7	<7	17
Longmeadow	<7	<7	<7	7	18	<7	<7	<7	<7	16
Lowell	131	157	191	151	630	188	184	206	233	811
Ludlow	10	9	16	21	56	14	15	9	0	38
Lunenburg	<7	7	<7	<7	19	<7	<7	<7	<7	13
Lynn	58	98	69	78	303	105	123	151	142	521
Lynnfield	<7	<7	<7	7	20	<7	<7	<7	<7	12
Malden	26	86	56	39	207	42	69	69	50	230
Manchester	0	0	0	0	0	0	0	0	0	0
Mansfield	<7	<7	<7	0	<7	<7	14	16	*	45
Marblehead	<7	<7	<7	<7	15	<7	*	17	13	47
Marion	<7	<7	<7	<7	10	<7	<7	<7	<7	10
Marlborough	15	19	18	15	67	23	17	13	0	53
Marshfield	<7	<7	<7	0	<7	<7	<7	<7	0	<7
Mashpee	17	20	13	8	58	<7	15	21	*	52
Mattapoisett	<7	<7	<7	<7	15	<7	8	<7	<7	17
Maynard	9	<7	<7	<7	21	<7	<7	7	<7	21
Medfield	0	<7	<7	0	<7	<7	<7	<7	<7	8
Medford	33	37	51	36	157	49	50	37	29	165
Medway	<7	0	<7	<7	8	<7	<7	<7	<7	11
Melrose	8	<7	15	<7	32	16	16	15	10	57
Mendon	0	0	0	0	0	0	0	0	<7	<7

			<u>2015</u>	<u>i</u>			<u>2016</u>				
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	
Merrimac	<7	<7	<7	<7	16	<7	0	<7	<7	10	
Methuen	78	29	32	53	192	48	57	63	52	220	
Middleborough	23	7	10	11	51	*	22	<7	0	38	
Middlefield	0	0	0	0	0	0	0	<7	<7	<7	
Middleton	<7	<7	<7	<7	8	<7	9	7	<7	20	
Milford	9	11	18	14	52	8	19	27	16	70	
Millbury	17	10	15	13	55	11	23	18	9	61	
Millis	0	0	<7	<7	<7	<7	<7	<7	9	19	
Millville	<7	<7	0	<7	<7	<7	<7	0	<7	8	
Milton	<7	11	15	*	39	7	8	10	0	25	
Monroe	0	0	0	0	0	0	0	0	0	0	
Monson	<7	<7	<7	8	15	<7	<7	<7	<7	16	
Montague	<7	<7	<7	<7	18	11	12	*	<7	38	
Monterey	0	0	0	0	0	0	0	0	0	0	
Montgomery	0	0	0	0	0	0	0	0	0	0	
Mount Washington	0	0	0	0	0	0	0	<7	0	<7	
Nahant	<7	<7	0	<7	7	<7	<7	0	<7	7	
Nantucket	<7	<7	0	<7	12	<7	<7	10	<7	19	
Natick	*	<7	10	11	35	9	11	10	10	40	
Needham	7	<7	<7	<7	16	<7	<7	<7	<7	20	
New Ashford	0	0	0	0	0	0	0	0	0	0	
New Bedford	163	183	226	158	730	128	166	59	27	380	
New Braintree	0	<7	0	0	<7	0	0	0	<7	<7	
New Marlborough	0	0	0	0	0	0	0	0	0	0	
New Salem	0	0	0	<7	<7	0	0	0	0	0	
Newbury	<7	<7	0	0	7	<7	0	0	0	<7	
Newburyport	<7	7	<7	<7	21	<7	12	<7	16	35	
Newton	7	24	12	14	57	16	18	20	21	75	
Norfolk	<7	<7	<7	<7	11	9	<7	<7	8	26	
North Adams	<7	*	11	14	38	11	29	23	16	79	
North Andover	11	7	<7	<7	25	13	12	19	15	59	
North Attleboro	0	0	0	0	0	0	0	0	0	0	
North Brookfield	0	0	<7	<7	<7	0	<7	<7	<7	<7	
North Reading	<7	11	<7	<7	24	8	<7	12	<7	29	

			2015	<u>5</u>				<u>2016</u>		
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Northampton	<7	8	22	<7	35	29	25	<7	*	81
Northborough	<7	0	<7	<7	<7	8	<7	13	<7	30
Northbridge	<7	8	8	*	27	7	*	9	<7	26
Northfield	0	0	0	0	0	0	0	0	0	0
Norton	<7	0	<7	0	<7	0	10	7	13	30
Norwell	<7	10	12	<7	30	<7	8	<7	<7	22
Norwood	<7	0	<7	<7	7	<7	0	<7	12	19
Oak Bluffs	<7	<7	<7	<7	18	<7	<7	<7	<7	14
Oakham	0	<7	0	0	<7	0	<7	<7	0	<7
Orange	0	0	<7	<7	<7	<7	<7	<7	7	12
Orleans	<7	0	<7	0	<7	0	0	<7	<7	<7
Otis	0	0	0	0	0	0	0	<7	0	<7
Oxford	10	<7	15	*	40	<7	12	25	<7	45
Palmer	<7	<7	<7	<7	20	0	<7	0	<7	<7
Paxton	<7	0	<7	0	<7	<7	<7	<7	<7	7
Peabody	41	30	32	30	133	41	52	52	50	195
Pelham	9	<7	<7	10	28	10	<7	<7	<7	18
Pembroke	<7	15	12	*	41	10	12	8	22	52
Pepperell	<7	<7	7	<7	15	<7	<7	7	<7	19
Peru	0	0	0	0	0	0	<7	0	0	<7
Petersham	0	<7	0	0	<7	0	<7	0	<7	<7
Phillipston	0	<7	0	0	<7	0	0	<7	0	<7
Pittsfield	31	24	39	60	154	36	31	28	37	132
Plainfield	0	0	0	0	0	0	0	0	0	0
Plainville	7	<7	<7	10	26	<7	7	<7	12	27
Plymouth	60	50	38	52	200	39	64	61	56	220
Plympton	<7	<7	<7	0	<7	0	<7	<7	<7	7
Princeton	0	0	0	<7	<7	<7	0	0	0	<7
Provincetown	<7	7	11	<7	21	<7	<7	<7	<7	14
Quincy	109	108	50	94	361	61	136	152	139	488
Randolph	<7	<7	21	10	39	34	34	19	28	115
Raynham	7	<7	20	*	40	*	<7	9	14	36
Reading	7	<7	<7	<7	18	8	8	9	7	32
Rehoboth	0	0	0	0	0	0	0	0	0	0
Revere	46	67	88	64	265	58	88	100	85	331
Richmond	0	0	0	0	0	0	0	0	0	0

			2015	<u>i</u>				<u>2016</u>	2016			
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total		
Rochester	0	<7	0	0	<7	<7	<7	0	0	<7		
Rockland	12	7	19	14	52	43	30	30	28	131		
Rockport	<7	0	<7	<7	9	<7	0	<7	<7	8		
Rowe	0	0	0	0	0	0	0	0	0	0		
Rowley	0	<7	0	<7	<7	<7	<7	<7	0	<7		
Royalston	0	<7	<7	<7	<7	<7	<7	<7	0	<7		
Russell	0	<7	<7	0	<7	0	0	0	<7	<7		
Rutland	<7	<7	<7	0	8	0	<7	<7	<7	10		
Salem	38	64	43	38	183	52	72	85	64	273		
Salisbury	17	19	11	15	62	28	35	35	19	117		
Sandisfield	0	0	0	0	0	0	<7	0	0	<7		
Sandwich	0	0	<7	0	<7	0	0	*	<7	13		
Saugus	32	31	30	21	114	31	38	39	33	141		
Savoy	0	0	0	0	0	0	0	0	0	0		
Scituate	<7	7	9	<7	27	<7	<7	8	<7	23		
Seekonk	<7	0	<7	18	24	7	0	0	0	7		
Sharon	<7	0	0	0	<7	0	<7	8	<7	15		
Sheffield	0	0	<7	<7	<7	0	0	<7	0	<7		
Shelburne	0	<7	0	<7	<7	<7	<7	0	<7	<7		
Sherborn	0	0	0	<7	<7	0	0	0	0	0		
Shirley	<7	<7	<7	<7	11	<7	<7	10	<7	15		
Shrewsbury	<7	<7	<7	7	15	<7	<7	<7	<7	11		
Shutesbury	<7	0	0	0	<7	0	0	0	0	0		
Somerset	0	<7	<7	<7	<7	<7	<7	<7	0	<7		
Somerville	20	45	45	48	158	45	60	68	54	227		
South Hadley	<7	0	0	<7	<7	0	<7	0	<7	<7		
Southampton	0	<7	<7	<7	<7	0	<7	<7	<7	7		
Southborough	<7	<7	<7	<7	<7	<7	<7	<7	<7	9		
Southbridge	14	15	12	11	52	<7	0	0	<7	<7		
Southwick	<7	<7	<7	<7	12	11	12	*	<7	37		
Spencer	<7	0	<7	<7	9	<7	<7	<7	<7	12		
Springfield	131	181	172	276	760	226	238	192	223	879		
Sterling	<7	0	<7	<7	8	<7	7	<7	<7	15		
Stockbridge	0	0	<7	0	<7	0	0	0	0	0		
Stoneham	16	17	11	20	64	9	26	10	14	59		
Stoughton	11	12	20	14	57	11	23	15	15	64		

City/Town			2015	<u> </u>		<u>2016</u>					
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	
Stow	<7	<7	<7	<7	8	0	<7	<7	0	7	
Sturbridge	0	<7	<7	<7	7	<7	12	<7	<7	28	
Sudbury	<7	<7	<7	<7	15	0	<7	0	<7	7	
Sunderland	<7	0	0	<7	<7	<7	<7	<7	<7	8	
Sutton	<7	<7	<7	<7	14	<7	<7	<7	<7	17	
Swampscott	<7	<7	<7	<7	11	<7	9	<7	8	28	
Swansea	<7	0	<7	<7	9	10	15	13	16	54	
Taunton	82	81	87	82	332	76	123	81	68	348	
Templeton	<7	11	<7	<7	27	7	<7	7	<7	17	
Tewksbury	0	<7	*	10	21	12	24	20	25	81	
Tisbury	<7	<7	0	<7	<7	0	<7	<7	<7	<7	
Tolland	0	0	0	0	0	0	0	0	0	0	
Topsfield	<7	<7	<7	<7	14	0	<7	*	0	9	
Townsend	7	<7	<7	<7	18	10	<7	<7	<7	23	
Truro	<7	0	<7	0	<7	0	<7	0	0	<7	
Tyngsborough	0	<7	0	<7	<7	<7	<7	7	<7	19	
Tyringham	0	0	0	<7	<7	0	0	0	0	0	
Upton	0	<7	<7	<7	<7	<7	<7	<7	<7	8	
Uxbridge	<7	14	12	*	39	9	*	12	<7	32	
Wakefield	18	9	16	14	57	12	13	19	20	64	
Wales	0	0	0	0	0	0	0	0	0	0	
Walpole	14	<7	<7	11	37	7	11	11	15	44	
Waltham	27	42	29	37	135	47	46	46	37	176	
Ware	0	<7	0	0	<7	0	0	<7	0	<7	
Wareham	32	38	51	27	148	33	38	44	35	150	
Warren	<7	0	<7	<7	<7	<7	<7	0	<7	7	
Warwick	0	0	0	0	0	0	0	0	0	0	
Washington	0	<7	0	0	<7	0	<7	0	0	<7	
Watertown	28	30	15	13	86	30	26	9	23	88	
Wayland	<7	<7	<7	<7	7	<7	<7	<7	<7	7	
Webster	26	9	14	14	63	18	18	26	28	90	
Wellesley	<7	<7	<7	<7	16	<7	<7	<7	7	15	
Wellfleet	0	<7	<7	<7	<7	<7	<7	<7	<7	12	
Wendell	0	0	0	0	0	0	0	0	0	0	
Wenham	0	0	0	<7	<7	<7	<7	<7	0	<7	
West Boylston	<7	<7	<7	<7	13	<7	<7	<7	<7	13	

			<u>2015</u>	<u>i</u>		2016					
City/Town	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	
West Bridgewater	<7	<7	7	<7	18	11	<7	<7	0	20	
West Brookfield	0	<7	0	0	<7	0	0	0	<7	<7	
West Newbury	<7	0	0	0	<7	<7	<7	0	<7	<7	
West Springfield	0	0	0	0	0	<7	0	0	0	<7	
West Stockbridge	<7	0	0	0	<7	0	0	<7	0	<7	
West Tisbury	0	0	<7	0	<7	<7	<7	<7	0	<7	
Westborough	11	<7	<7	13	35	7	14	13	11	45	
Westfield	10	15	12	36	73	32	18	19	23	92	
Westford	0	0	<7	<7	8	8	<7	<7	<7	23	
Westhampton	0	<7	*	11	19	7	11	8	8	34	
Westminster	<7	<7	<7	0	10	<7	<7	<7	<7	10	
Weston	<7	<7	<7	0	<7	<7	<7	0	<7	<7	
Westport	<7	0	<7	0	<7	<7	12	*	12	33	
Westwood	<7	<7	0	<7	<7	<7	<7	<7	<7	15	
Weymouth	67	56	59	33	215	45	54	86	11	196	
Whately	0	<7	<7	0	<7	0	0	<7	0	<7	
Whitman	0	<7	10	<7	16	7	11	10	18	46	
Wilbraham	<7	<7	<7	8	21	<7	10	<7	7	24	
Williamsburg	0	0	0	0	0	0	0	0	0	0	
Williamstown	<7	<7	0	<7	9	<7	<7	<7	0	<7	
Wilmington	12	18	17	7	54	13	*	11	<7	39	
Winchendon	<7	0	<7	<7	<7	<7	<7	10	<7	20	
Winchester	<7	<7	<7	<7	12	7	<7	<7	11	23	
Windsor	0	0	0	0	0	0	0	0	<7	<7	
Winthrop	7	9	7	12	35	13	20	23	9	65	
Woburn	37	29	21	28	115	46	44	46	35	171	
Worcester	272	259	371	302	1204	283	334	388	317	1322	
Worthington	0	0	0	0	0	0	0	0	0	0	
Wrentham	<7	<7	<7	<7	7	9	13	12	7	41	
Yarmouth	38	25	18	27	108	17	36	23	30	106	
Unknown	308	307	395	329	1339	283	396	403	340	1422	
Grand Total	4561	4719	5236	5056	19572	5181	6468	6675	5175	23499	

^{*}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. Due to differences in reporting by EMS services, these numbers are likely an undercount of true opioid-related incidents.

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