MA Opioid-Related EMS Incidents 2013-2019

Massachusetts Department of Public Health   POSTED: AUGUST 2019

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

The percentage of EMS incidents that are considered opioid-related (Figure 1) and the number of all EMS incidents involving naloxone administration (Figure 2) increased 7% per quarter from 2013 through the second quarter of 2016. However, since midway through 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 2013-2019 trend in the confirmed and estimated opioid-related overdose death rate (see "Q2 2019 Opioid-related Overdose Deaths among MA Residents", Figure 3). In the first three months of 2019, the greatest number of suspected opioid-related overdoses treated by EMS is among males aged 25-34, accounting for 24% of opioid-related overdose incidents with a known age and gender.

All Suspected Opioid Related Incidents: 2019 (Quarter 1)							
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	<5	198	1,127	804	535	349	106	3,119
Female	<5	121	586	366	234	131	76	1,514
Total	<5	319	1,713	1,170	769	480	182	4,633

Figure 1: Percent of Opioid-Related Overdoses Among All EMS Incidents, MA: 2013-Q1 2019
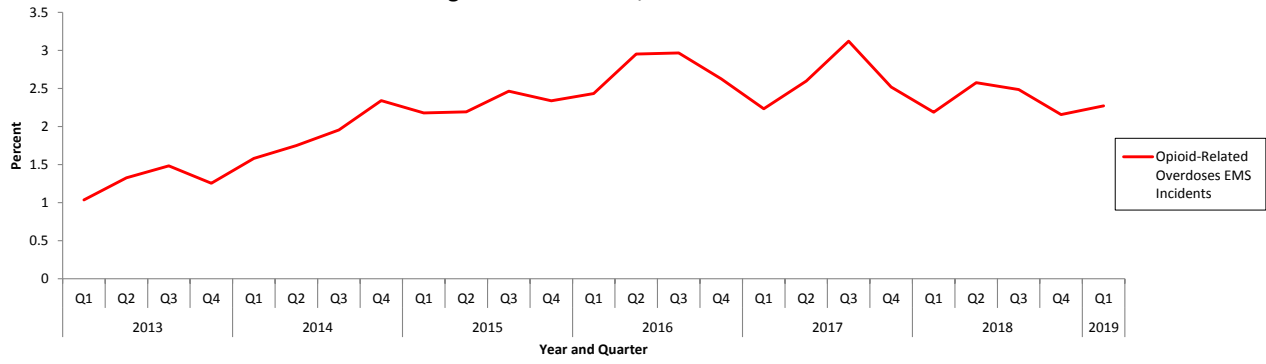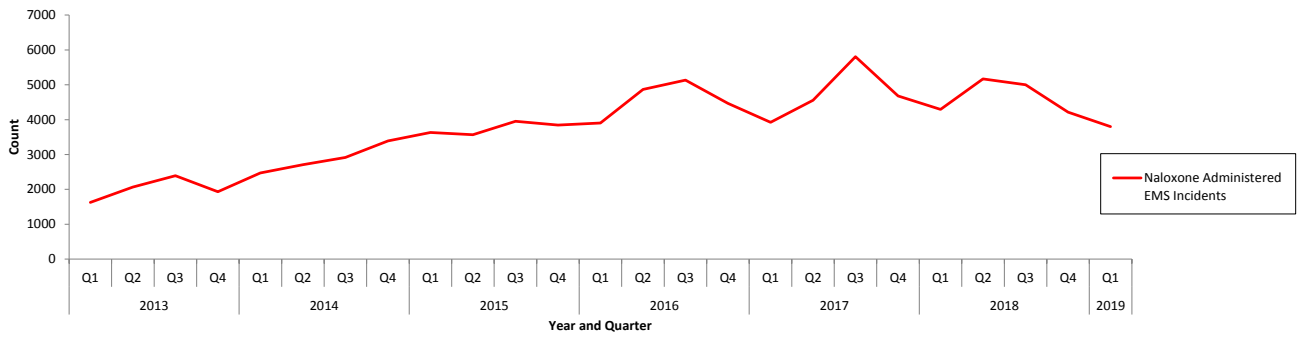

Figure 2: Count of All EMS Incidents Involving Naloxone Administration, MA: 2013-Q1 2019

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 <5.

City/Town	2017					2018					2019
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Abington	14	9	10	12	45	7	9	5	8	29	8
Acton	*	7	<5	6	19	7	†	<5	<5	14	<5
Acushnet	7	7	6	5	25	6	<5	<5	<5	14	†
Adams	<5	<5	<5	10	17	11	<5	*	10	32	6
Agawam	9	10	13	11	43	24	24	20	12	80	14
Alford	†	†	†	†	†	†	†	†	†	†	<5
Amesbury	11	15	14	12	52	11	7	13	7	38	7
Amherst	8	6	8	7	29	<5	*	7	5	21	†
Andover	7	11	12	14	44	9	6	11	12	38	10
Aquinnah	†	†	†	†	†	†	†	†	†	†	†
Arlington	11	14	19	23	67	<5	13	14	*	33	12
Ashburnham	<5	<5	†	†	<5	<5	†	<5	†	<5	6
Ashby	†	<5	<5	5	12	<5	<5	<5	†	7	<5
Ashfield	†	†	†	†	†	†	†	†	<5	<5	†
Ashland	*	9	7	<5	25	<5	<5	5	<5	15	<5
Athol	7	15	12	8	42	19	33	18	21	91	6
Attleboro	42	36	48	32	158	44	36	48	42	170	31
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	5
Barnstable	63	48	91	44	246	33	29	31	30	123	40
Barre	6	<5	<5	<5	13	6	<5	8	<5	18	9
Becket	<5	<5	†	<5	6	†	†	<5	†	<5	<5
Bedford	*	8	8	<5	23	6	8	*	<5	22	5
Belchertown	<5	7	*	6	21	*	7	6	<5	22	<5
Bellingham	11	14	6	9	40	8	†	5	7	20	<5
Belmont	<5	*	12	7	27	8	7	<5	<5	21	6
Berkley	<5	<5	<5	<5	9	<5	<5	<5	<5	9	<5
Berlin	<5	†	<5	†	<5	<5	†	<5	†	<5	†
Bernardston	†	†	†	†	†	†	†	†	†	†	†
Beverly	27	35	23	23	108	23	19	32	23	97	16
Billerica	20	15	42	20	97	32	17	16	14	79	15
Blackstone	<5	9	12	*	30	*	10	<5	7	27	<5
Blandford	†	†	†	†	†	†	†	†	<5	<5	†
Bolton	<5	†	<5	†	<5	<5	†	<5	†	<5	†
Boston	432	643	899	690	2664	614	697	775	583	2669	568

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City/Town	2017					2018					2019
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Bourne	15	30	17	22	**84**	5	16	18	19	**58**	10
Boxborough	†	<5	<5	<5	**7**	†	†	†	<5	**<5**	<5
Boxford	<5	<5	†	†	**<5**	<5	<5	<5	<5	**5**	<5
Boylston	†	†	<5	†	**<5**	†	<5	†	†	**<5**	†
Braintree	25	35	39	29	**128**	22	35	27	14	**98**	17
Brewster	†	7	<5	<5	**12**	<5	<5	5	<5	**13**	<5
Bridgewater	<5	<5	<5	<5	**8**	†	<5	*	17	**29**	6
Brimfield	†	†	†	†	**†**	†	†	†	<5	**<5**	<5
Brockton	206	185	266	203	**860**	164	238	226	167	**795**	152
Brookfield	<5	<5	<5	<5	**7**	†	<5	<5	<5	**<5**	<5
Brookline	12	18	10	13	**53**	9	10	12	11	**42**	12
Buckland	†	†	†	†	**†**	†	†	†	†	**†**	†
Burlington	9	13	21	15	**58**	9	10	14	13	**46**	11
Cambridge	96	90	107	73	**366**	72	96	84	91	**343**	79
Canton	8	8	9	14	**39**	*	9	8	<5	**27**	6
Carlisle	†	†	5	†	**5**	†	<5	†	<5	**5**	†
Carver	11	12	11	9	**43**	<5	6	11	<5	**23**	6
Charlemont	†	†	†	†	**†**	<5	†	†	†	**<5**	†
Charlton	<5	<5	<5	<5	**11**	<5	5	†	<5	**11**	†
Chatham	5	<5	<5	<5	**11**	<5	<5	<5	<5	**9**	†
Chelmsford	19	12	13	12	**56**	19	15	15	14	**63**	6
Chelsea	49	83	91	43	**266**	69	71	72	36	**248**	30
Cheshire	<5	<5	†	†	**<5**	<5	†	<5	<5	**5**	†
Chester	<5	†	<5	†	**<5**	<5	†	†	†	**<5**	<5
Chesterfield	†	†	<5	†	**<5**	†	<5	†	<5	**<5**	†
Chicopee	46	59	67	76	**248**	81	107	62	64	**314**	69
Chilmark	†	†	†	<5	**<5**	<5	†	<5	†	**<5**	†
Clarksburg	†	†	†	†	**†**	†	†	†	†	**†**	†
Clinton	6	12	14	17	**49**	9	19	10	6	**44**	6
Cohasset	†	<5	<5	<5	**9**	†	†	<5	†	**<5**	†
Colrain	†	†	†	†	**†**	<5	†	<5	<5	**<5**	†
Concord	<5	<5	<5	<5	**8**	<5	5	<5	†	**11**	<5
Conway	†	†	†	†	**†**	†	†	†	<5	**<5**	†
Cummington	†	†	<5	†	**<5**	†	†	†	†	**†**	†
Dalton	<5	†	<5	†	**6**	†	<5	<5	5	**13**	8
Danvers	30	41	36	35	**142**	44	41	26	30	**141**	34
Dartmouth	18	27	21	29	**95**	34	24	29	32	**119**	33

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City/Town	2017					2018					2019
	Q1	Q2	Q3	Q4	**Total**	Q1	Q2	Q3	Q4	**Total**	Q1
Dedham	16	15	21	15	**67**	13	21	6	7	**47**	12
Deerfield	†	<5	†	<5	**7**	†	<5	<5	5	**8**	<5
Dennis	11	11	20	16	**58**	7	14	10	8	**39**	13
Dighton	<5	<5	†	†	**<5**	†	<5	†	†	**<5**	<5
Douglas	†	†	†	<5	**<5**	<5	<5	<5	<5	**11**	<5
Dover	†	†	<5	†	**<5**	<5	<5	<5	<5	**6**	†
Dracut	11	17	26	13	**67**	28	25	18	20	**91**	5
Dudley	<5	7	*	7	**23**	5	18	12	11	**46**	17
Dunstable	<5	†	<5	<5	**<5**	<5	†	†	†	**<5**	<5
Duxbury	<5	<5	<5	5	**13**	<5	<5	<5	<5	**10**	<5
East Bridgewater	5	6	5	9	**25**	6	5	15	8	**34**	8
East Brookfield	†	†	†	†	**†**	†	<5	<5	†	**<5**	†
East Longmeadow	7	*	<5	6	**20**	7	<5	8	*	**24**	6
Eastham	<5	<5	<5	†	**8**	<5	<5	<5	<5	**6**	<5
Easthampton	<5	5	10	<5	**23**	7	12	7	5	**31**	7
Easton	<5	<5	6	13	**22**	11	12	10	11	**44**	9
Edgartown	<5	<5	<5	†	**5**	†	†	<5	<5	**5**	<5
Egremont	†	†	†	†	**†**	†	†	†	†	**†**	†
Erving	<5	†	†	<5	**<5**	†	<5	†	†	**<5**	<5
Essex	<5	<5	<5	<5	**5**	<5	†	<5	†	**<5**	<5
Everett	39	43	49	39	**170**	37	40	27	42	**146**	37
Fairhaven	11	13	11	12	**47**	17	24	12	12	**65**	6
Fall River	196	172	250	252	**870**	168	259	372	276	**1075**	180
Falmouth	40	48	29	34	**151**	36	35	30	32	**133**	38
Fitchburg	75	80	105	81	**341**	66	78	82	42	**268**	85
Florida	†	†	†	†	**†**	†	†	†	†	**†**	†
Foxborough	14	8	10	7	**39**	<5	*	13	9	**35**	10
Framingham	45	34	48	54	**181**	39	61	51	48	**199**	40
Franklin	16	15	*	<5	**46**	10	9	5	10	**34**	7
Freetown	<5	<5	<5	<5	**11**	<5	8	5	<5	**19**	<5
Gardner	22	13	20	13	**68**	11	23	29	31	**94**	15
Georgetown	<5	<5	†	<5	**6**	*	<5	†	7	**16**	<5
Gill	†	†	†	†	**†**	†	<5	<5	<5	**7**	†
Gloucester	17	27	38	30	**112**	27	29	32	21	**109**	15
Goshen	†	†	†	†	**†**	†	†	†	†	**†**	†

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City/Town	2017					2018					2019
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Gosnold	†	†	†	†	**†**	†	†	†	†	**†**	†
Grafton	*	7	10	<5	**25**	<5	6	<5	8	**18**	<5
Granby	<5	†	<5	8	**13**	*	6	<5	5	**19**	<5
Granville	†	†	†	†	**†**	†	†	†	†	**†**	<5
Great Barrington	6	<5	<5	6	**19**	†	<5	*	7	**16**	<5
Greenfield	11	15	20	7	**53**	13	10	22	15	**60**	22
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**	<5
Halifax	*	<5	5	11	**23**	8	5	<5	<5	**19**	<5
Hamilton	<5	<5	<5	<5	**6**	†	<5	†	<5	**<5**	<5
Hampden	<5	<5	<5	†	**6**	5	<5	<5	5	**15**	<5
Hancock	†	<5	†	†	**<5**	†	†	†	†	**†**	†
Hanover	<5	5	5	<5	**17**	<5	5	<5	<5	**12**	6
Hanson	<5	9	<5	<5	**21**	10	<5	*	5	**21**	5
Hardwick	<5	†	†	†	**<5**	<5	<5	<5	<5	**6**	<5
Harvard	<5	†	†	<5	**<5**	†	†	†	<5	**<5**	<5
Harwich	11	6	11	8	**36**	6	8	<5	<5	**21**	<5
Hatfield	†	<5	<5	†	**6**	<5	†	†	†	**<5**	†
Haverhill	87	85	121	76	**369**	75	82	75	78	**310**	55
Hawley	†	†	†	†	**†**	†	†	†	†	**†**	†
Heath	<5	†	†	<5	**<5**	†	†	†	†	**†**	†
Hingham	<5	<5	5	<5	**14**	<5	<5	<5	5	**13**	6
Hinsdale	†	†	†	†	**†**	†	<5	†	<5	**<5**	†
Holbrook	17	18	17	9	**61**	8	12	12	6	**38**	<5
Holden	<5	<5	5	<5	**11**	<5	<5	<5	<5	**8**	<5
Holland	†	†	<5	†	**<5**	<5	<5	†	†	**<5**	†
Holliston	<5	<5	<5	5	**14**	<5	<5	†	<5	**6**	<5
Holyoke	55	63	83	66	**267**	81	159	102	18	**360**	<5
Hopedale	<5	<5	<5	<5	**7**	<5	<5	†	<5	**8**	<5
Hopkinton	<5	6	<5	<5	**13**	5	<5	5	<5	**12**	<5
Hubbardston	<5	<5	<5	†	**7**	<5	†	<5	5	**7**	<5
Hudson	5	6	7	9	**27**	6	9	8	6	**29**	8
Hull	<5	<5	<5	†	**8**	<5	<5	9	<5	**13**	<5
Huntington	†	†	<5	†	**<5**	<5	†	†	†	**<5**	†
Ipswich	8	9	<5	*	**26**	<5	<5	9	†	**14**	†

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	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Kingston	6	*	9	<5	**24**	12	7	<5	<5	**26**	<5
Lakeville	21	15	23	29	**88**	21	19	20	18	**78**	14
Lancaster	†	<5	<5	<5	**6**	<5	†	8	<5	**13**	<5
Lanesborough	†	<5	<5	†	**<5**	†	<5	<5	<5	**9**	<5
Lawrence	151	178	242	207	**778**	180	169	183	132	**664**	134
Lee	<5	<5	<5	<5	**10**	<5	5	<5	<5	**11**	†
Leicester	9	6	6	8	**29**	6	5	<5	<5	**19**	6
Lenox	<5	5	<5	<5	**16**	†	<5	<5	†	**5**	<5
Leominster	68	56	70	56	**250**	46	62	55	70	**233**	48
Leverett	<5	†	†	†	**<5**	†	†	†	†	**†**	†
Lexington	5	<5	5	<5	**16**	<5	<5	<5	<5	**8**	<5
Leyden	†	†	†	†	**†**	†	†	†	†	**†**	†
Lincoln	<5	<5	<5	<5	**10**	†	†	†	†	**†**	†
Littleton	<5	<5	<5	<5	**9**	†	†	<5	<5	**<5**	<5
Longmeadow	<5	<5	<5	<5	**10**	<5	<5	<5	7	**15**	<5
Lowell	269	309	322	238	**1138**	320	290	337	282	**1229**	160
Ludlow	10	6	13	10	**39**	9	18	6	7	**40**	7
Lunenburg	<5	†	<5	<5	**6**	<5	*	8	8	**26**	<5
Lynn	117	147	172	150	**586**	117	162	202	110	**591**	92
Lynnfield	5	<5	<5	<5	**11**	<5	<5	<5	8	**17**	<5
Malden	31	55	76	42	**204**	52	50	55	41	**198**	27
Manchester	<5	<5	†	<5	**6**	†	†	†	<5	**<5**	<5
Mansfield	7	10	6	17	**40**	8	13	9	7	**37**	8
Marblehead	9	<5	*	10	**28**	<5	6	9	<5	**19**	<5
Marion	<5	<5	<5	<5	**9**	<5	†	<5	<5	**5**	<5
Marlborough	5	9	19	17	**50**	20	12	19	23	**74**	17
Marshfield	8	7	12	16	**43**	8	*	<5	7	**21**	6
Mashpee	16	16	10	10	**52**	9	12	9	6	**36**	10
Mattapoisett	<5	<5	6	5	**15**	6	<5	10	<5	**23**	5
Maynard	9	9	<5	<5	**23**	<5	<5	<5	<5	**8**	<5
Medfield	5	<5	<5	<5	**10**	†	<5	<5	<5	**5**	<5
Medford	14	24	27	27	**92**	18	19	34	21	**92**	25
Medway	*	8	17	<5	**35**	8	<5	*	7	**25**	8
Melrose	*	<5	15	7	**33**	9	9	5	5	**28**	<5
Mendon	<5	<5	†	<5	**7**	<5	†	<5	<5	**7**	<5
Merrimac	<5	<5	7	<5	**15**	6	†	<5	<5	**10**	<5
Methuen	28	49	60	55	**192**	34	24	11	38	**107**	44

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| City/Town | 2017 | | | | | 2018 | | | | | 2019 |
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Middleborough	<5	<5	<5	<5	**9**	<5	<5	†	5	**9**	†
Middlefield	†	<5	†	†	**<5**	†	†	†	†	**†**	†
Middleton	<5	<5	6	7	**19**	13	<5	*	8	**31**	<5
Milford	13	24	12	16	**65**	19	12	9	24	**64**	23
Millbury	8	12	10	14	**44**	8	13	11	11	**43**	9
Millis	6	<5	5	<5	**15**	7	†	<5	<5	**14**	†
Millville	†	†	<5	<5	**5**	<5	<5	†	<5	**7**	†
Milton	9	9	9	5	**32**	10	<5	7	*	**25**	<5
Monroe	†	†	†	†	**†**	†	†	†	†	**†**	†
Monson	<5	<5	6	<5	**14**	<5	<5	<5	<5	**11**	<5
Montague	6	*	8	<5	**23**	<5	10	6	<5	**22**	<5
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	11	**35**	18
Needham	<5	†	<5	<5	**7**	<5	<5	<5	<5	**10**	5
New Ashford	†	†	†	†	**†**	†	†	†	†	**†**	†
New Bedford	122	203	238	133	**696**	148	259	195	126	**278**	181
New Braintree	†	<5	†	†	**<5**	†	†	<5	†	**<5**	†
New Marlborough	†	<5	†	†	**<5**	†	†	<5	<5	**<5**	<5
New Salem	†	<5	†	†	**<5**	†	†	†	†	**†**	†
Newbury	<5	<5	†	<5	**6**	†	<5	<5	5	**9**	<5
Newburyport	<5	<5	8	<5	**16**	<5	5	<5	<5	**17**	<5
Newton	17	16	15	17	**65**	18	13	12	17	**60**	11
Norfolk	<5	<5	<5	<5	**6**	<5	<5	<5	†	**5**	<5
North Adams	9	9	17	13	**48**	12	19	26	10	**67**	23
North Andover	19	12	16	24	**71**	13	*	12	<5	**36**	13
North Attleboro	10	25	21	22	**78**	21	18	14	18	**71**	7
North Brookfield	†	†	†	<5	**<5**	<5	†	†	<5	**<5**	†
North Reading	<5	9	<5	<5	**17**	<5	7	<5	9	**23**	<5
Northampton	25	20	16	20	**81**	15	30	20	24	**89**	27

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City/Town	2017					2018					2019
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Northborough	<5	<5	6	<5	12	<5	6	<5	8	19	7
Northbridge	<5	*	9	6	25	5	14	12	6	37	6
Northfield	†	†	<5	<5	<5	<5	<5	†	<5	<5	†
Norton	9	<5	9	*	28	*	9	5	<5	23	<5
Norwell	*	7	<5	6	21	<5	5	<5	5	17	<5
Norwood	16	17	22	14	69	14	17	19	6	56	16
Oak Bluffs	<5	†	<5	<5	5	<5	†	†	†	<5	<5
Oakham	<5	†	<5	†	<5	<5	†	†	†	<5	†
Orange	8	<5	<5	<5	18	<5	11	10	*	29	<5
Orleans	5	<5	<5	†	9	<5	<5	<5	7	16	<5
Otis	†	†	<5	†	<5	†	†	†	†	†	†
Oxford	11	*	<5	11	34	<5	14	*	17	46	8
Palmer	<5	8	*	9	28	8	15	13	8	44	10
Paxton	<5	<5	<5	†	5	<5	<5	<5	†	7	<5
Peabody	34	37	51	41	163	44	56	38	35	173	28
Pelham	†	†	†	†	†	†	†	<5	†	<5	†
Pembroke	12	8	8	5	33	*	7	<5	7	22	5
Pepperell	<5	†	7	<5	14	7	<5	<5	<5	13	†
Peru	†	†	†	†	†	†	†	†	†	†	†
Petersham	†	†	†	†	†	†	†	†	†	†	<5
Phillipston	†	†	†	†	†	†	†	†	†	†	†
Pittsfield	36	32	66	38	172	33	61	64	37	195	37
Plainfield	†	<5	<5	<5	<5	<5	†	<5	<5	6	<5
Plainville	7	*	<5	6	23	<5	<5	5	<5	15	<5
Plymouth	53	63	78	67	261	37	72	39	48	196	48
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	20	<5
Quincy	96	107	182	92	477	112	123	131	77	443	83
Randolph	19	14	21	24	78	10	9	14	24	57	16
Raynham	6	10	12	9	37	13	12	10	16	51	8
Reading	<5	5	<5	<5	13	<5	<5	<5	<5	8	<5
Rehoboth	<5	<5	<5	<5	8	†	†	<5	<5	<5	<5
Revere	52	69	82	54	257	63	69	70	49	251	36
Richmond	†	†	†	†	†	†	<5	<5	†	<5	†
Rochester	<5	†	<5	<5	7	<5	<5	†	<5	6	†
Rockland	17	19	23	20	79	17	16	13	14	60	6

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City/Town	2017					2018					2019
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Rockport	<5	*	†	6	**13**	†	†	<5	<5	**<5**	<5
Rowe	†	†	†	†	**†**	†	†	†	†	**†**	†
Rowley	<5	<5	<5	†	**<5**	†	<5	<5	†	**<5**	†
Royalston	<5	†	†	<5	**<5**	<5	<5	†	†	**<5**	†
Russell	†	<5	†	†	**<5**	<5	<5	†	†	**<5**	<5
Rutland	5	<5	<5	<5	**13**	<5	<5	†	†	**<5**	<5
Salem	54	56	78	44	**232**	39	51	52	37	**179**	31
Salisbury	19	25	34	29	**107**	17	22	27	17	**83**	8
Sandisfield	<5	†	†	†	**<5**	†	†	†	†	**†**	†
Sandwich	14	9	5	11	**39**	10	12	*	<5	**35**	7
Saugus	25	31	32	28	**116**	30	27	21	16	**94**	30
Savoy	†	†	†	†	**†**	†	†	†	†	**†**	†
Scituate	<5	<5	6	<5	**13**	<5	<5	5	6	**16**	<5
Seekonk	<5	10	8	*	**29**	<5	<5	5	8	**18**	6
Sharon	<5	<5	<5	7	**16**	5	<5	<5	<5	**15**	<5
Sheffield	†	8	<5	<5	**14**	†	†	<5	<5	**6**	<5
Shelburne	<5	†	<5	†	**<5**	†	<5	<5	†	**<5**	<5
Sherborn	†	†	†	<5	**<5**	<5	†	<5	†	**<5**	†
Shirley	*	<5	7	5	**21**	6	8	6	5	**25**	<5
Shrewsbury	7	16	13	18	**54**	24	25	14	14	**77**	16
Shutesbury	†	†	†	†	**†**	<5	†	<5	†	**<5**	†
Somerset	8	10	14	15	**47**	12	14	*	<5	**35**	<5
Somerville	27	39	43	24	**133**	30	31	35	26	**122**	24
South Hadley	†	†	<5	<5	**<5**	<5	11	11	*	**31**	7
Southampton	<5	<5	†	<5	**<5**	†	<5	<5	†	**7**	†
Southborough	†	†	<5	<5	**5**	<5	<5	6	†	**8**	<5
Southbridge	8	14	20	24	**66**	8	20	24	23	**75**	32
Southwick	8	<5	<5	8	**23**	5	10	5	12	**32**	6
Spencer	<5	*	7	10	**24**	<5	12	*	7	**29**	9
Springfield	115	186	212	161	**674**	184	278	262	206	**930**	220
Sterling	<5	<5	<5	<5	**8**	*	5	9	<5	**21**	<5
Stockbridge	<5	†	†	<5	**<5**	†	<5	†	†	**<5**	†
Stoneham	10	8	21	8	**47**	12	*	10	<5	**34**	†
Stoughton	15	17	17	14	**63**	26	17	24	23	**90**	22
Stow	<5	6	<5	<5	**13**	<5	†	<5	<5	**6**	†
Sturbridge	<5	<5	<5	8	**17**	<5	8	8	*	**23**	<5
Sudbury	<5	†	<5	<5	**5**	<5	<5	<5	<5	**8**	†

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City/Town	2017					2018					2019
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
Sunderland	†	<5	†	†	**<5**	<5	†	<5	†	**<5**	†
Sutton	<5	<5	<5	<5	**12**	6	<5	<5	7	**17**	<5
Swampscott	<5	<5	5	<5	**15**	<5	<5	<5	<5	**12**	<5
Swansea	10	<5	17	<5	**34**	*	13	<5	11	**36**	12
Taunton	42	78	94	78	**292**	62	77	72	68	**279**	53
Templeton	5	<5	6	<5	**15**	<5	<5	5	6	**18**	<5
Tewksbury	37	41	29	20	**127**	47	26	29	23	**125**	14
Tisbury	<5	<5	<5	†	**7**	†	†	<5	<5	**<5**	<5
Tolland	†	†	†	†	**†**	†	†	†	†	**†**	†
Topsfield	<5	6	†	<5	**8**	<5	†	†	<5	**6**	<5
Townsend	<5	<5	†	<5	**10**	*	9	<5	†	**16**	<5
Truro	†	†	†	<5	**<5**	<5	<5	<5	<5	**5**	†
Tyngsborough	<5	*	6	6	**19**	10	10	<5	<5	**28**	<5
Tyringham	†	†	†	†	**†**	†	†	†	†	**†**	†
Upton	†	5	<5	<5	**10**	<5	†	<5	<5	**5**	<5
Uxbridge	*	<5	7	6	**22**	<5	11	<5	<5	**22**	<5
Wakefield	10	19	23	13	**65**	9	18	13	5	**45**	†
Wales	†	†	<5	<5	**<5**	<5	<5	<5	†	**5**	†
Walpole	9	*	8	<5	**29**	10	17	12	6	**45**	6
Waltham	20	35	45	25	**125**	34	31	23	16	**104**	14
Ware	<5	6	11	<5	**22**	8	10	9	8	**35**	6
Wareham	41	39	52	52	**184**	39	45	52	36	**172**	34
Warren	6	<5	<5	†	**13**	<5	6	<5	<5	**14**	5
Warwick	†	<5	†	†	**<5**	†	†	<5	†	**<5**	†
Washington	†	†	†	<5	**<5**	†	†	†	†	**†**	†
Watertown	5	11	15	13	**44**	15	18	20	11	**64**	8
Wayland	<5	<5	<5	†	**5**	<5	†	†	†	**<5**	<5
Webster	13	18	23	17	**71**	14	28	30	28	**100**	35
Wellesley	<5	<5	<5	6	**14**	<5	<5	7	5	**17**	<5
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**	6
West Bridgewater	<5	5	<5	10	**21**	<5	7	<5	<5	**13**	<5
West Brookfield	<5	<5	<5	5	**10**	<5	<5	<5	<5	**9**	<5

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City/Town	2017					2018					2019
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1
West Newbury	†	†	<5	†	**<5**	<5	<5	†	†	**<5**	†
West Springfield	11	14	40	23	**88**	23	35	23	20	**101**	29
West Stockbridge	<5	†	†	†	**<5**	†	<5	†	†	**<5**	†
West Tisbury	†	<5	<5	†	**<5**	†	†	†	†	**†**	†
Westborough	14	26	15	11	**66**	12	13	8	12	**45**	15
Westfield	11	14	15	21	**61**	27	27	20	14	**88**	21
Westford	5	9	5	6	**25**	*	10	<5	†	**20**	<5
Westhampton	<5	†	†	†	**<5**	<5	†	†	†	**<5**	†
Westminster	<5	5	<5	8	**19**	*	<5	5	6	**19**	6
Weston	9	<5	<5	†	**11**	<5	<5	†	†	**<5**	†
Westport	7	8	6	5	**26**	9	9	7	6	**31**	<5
Westwood	<5	6	<5	5	**13**	†	<5	<5	†	**<5**	<5
Weymouth	49	57	71	62	**239**	51	50	32	41	**174**	42
Whately	<5	<5	†	<5	**<5**	†	†	<5	†	**<5**	<5
Whitman	9	6	19	9	**43**	13	5	10	11	**39**	9
Wilbraham	<5	6	*	5	**20**	6	6	8	7	**27**	9
Williamsburg	<5	<5	<5	†	**<5**	<5	†	†	†	**<5**	<5
Williamstown	†	<5	<5	†	**<5**	<5	<5	†	<5	**6**	<5
Wilmington	6	14	17	21	**58**	19	12	*	<5	**41**	7
Winchendon	†	5	5	6	**16**	7	8	*	<5	**25**	<5
Winchester	<5	†	<5	<5	**7**	<5	<5	<5	6	**13**	<5
Windsor	†	†	†	†	**†**	†	†	†	†	**†**	†
Winthrop	<5	11	12	*	**37**	9	*	11	<5	**32**	†
Woburn	43	36	45	28	**152**	31	37	26	32	**126**	24
Worcester	263	361	448	432	**1504**	342	451	461	446	**1700**	398
Worthington	†	†	†	†	**†**	†	†	†	†	**†**	†
Wrentham	6	6	7	6	**25**	<5	<5	<5	†	**8**	†
Yarmouth	16	29	35	17	**97**	10	19	15	13	**57**	19
Unknown	51	49	63	51	**214**	36	32	7	8	**83**	<5
Grand Total	4714	5634	6957	5607	**22912**	5245	6281	6167	5045	**22738**	4536

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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