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. 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.
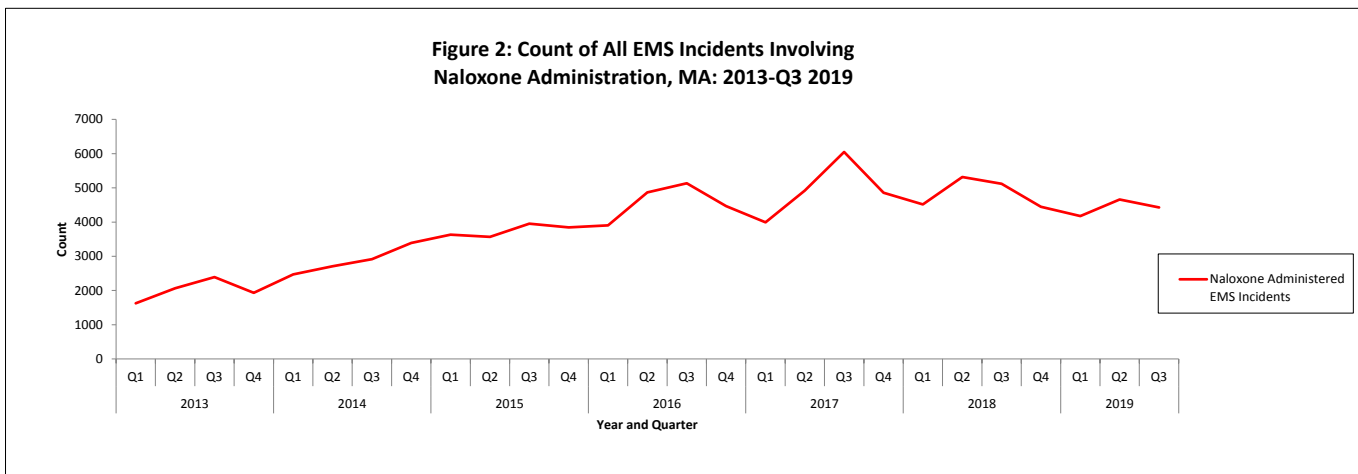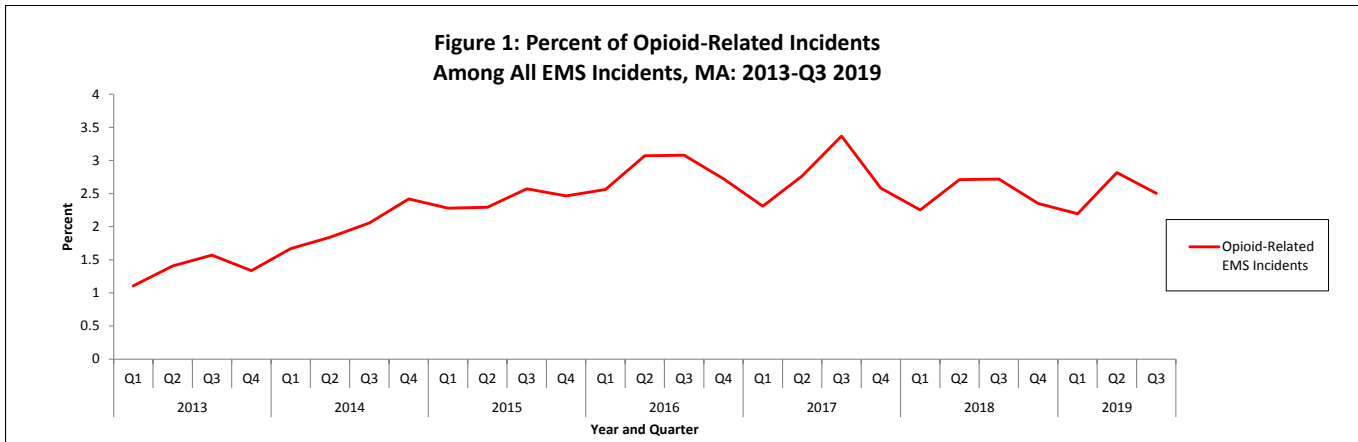
Results

The percentage of EMS incidents that are considered opioid-related (Figure 1) increased on average 7.8% per quarter from 2013 until 2016 and the number of all EMS incidents involving naloxone administration (Figure 2) increased on average 7.8% per quarter from 2013 through the third quarter of 2016. In 2016, both the proportion of EMS incidents that were opioid-related as well as the overall number of EMS incidents involving the administration of naloxone began slightly decreasing. This pattern also closely resembles the 2013-2019 trend in the confirmed and estimated opioid-related overdose death rate (see Opioid-Related Overdose Deaths among Massachusetts Residents, Figure 3). In the first nine months of 2019, the greatest number of suspected opioid-related incidents treated by EMS continued to be among males aged 25-34, accounting for 24% of opioid-related incidents with a known age and sex.

All Suspected Opioid Related Incidents: 2019 (Quarter 1)

	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	0	222	1,253	894	612	392	114	3,487
Female	(1-4)	134	668	413	266	134	97	1,712
Total	(1-4)	356	1,921	1,307	878	526	211	5,199

All Suspected Opioid Related Incidents: 2019 (Quarter 2)

	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	(1-4)	253	1,380	1,083	700	413	149	3,978
Female	0	162	724	503	285	191	110	1,975
Total	(1-4)	415	2,104	1,586	985	604	259	5,953

All Suspected Opioid Related Incidents: 2019 (Quarter 3)

	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	0	234	1,302	1,028	685	395	133	3,777
Female	0	138	619	452	265	170	86	1,730
Total	0	372	1,921	1,480	950	565	219	5,507

Figure 1: Percent of Opioid-Related Incidents Among All EMS Incidents, MA: 2013-Q3 2019

Figure 2: Count of All EMS Incidents Involving Naloxone Administration, MA: 2013-Q3 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 between 1 and 4. (1-4) indicates the cell value was between 1 and 4.

City/Town	2017					2018					2019			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Abington	14	9	11	10	44	7	9	5	8	29	8	9	9	26
Acton	*	7	(1-4)	6	21	8	†	(1-4)	(1-4)	15	(1-4)	(1-4)	(1-4)	8
Acushnet	7	8	6	5	26	6	(1-4)	(1-4)	(1-4)	15	†	*	(1-4)	7
Adams	(1-4)	(1-4)	(1-4)	11	18	11	(1-4)	*	11	33	6	(1-4)	(1-4)	13
Agawam	10	10	13	15	48	26	27	22	13	88	14	28	12	54
Alford	†	†	†	†	†	†	†	†	†	†	(1-4)	†	†	(1-4)
Amesbury	13	15	14	13	55	9	7	13	6	35	*	8	(1-4)	19
Amherst	11	8	10	7	36	11	7	7	12	37	*	6	(1-4)	15
Andover	8	11	14	19	52	9	6	15	12	42	10	12	12	34
Aquinnah	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Arlington	11	14	20	23	68	(1-4)	13	14	*	37	12	9	7	28
Ashburnham	(1-4)	(1-4)	†	(1-4)	5	(1-4)	†	(1-4)	†	(1-4)	6	(1-4)	(1-4)	10
Ashby	†	(1-4)	(1-4)	5	13	(1-4)	(1-4)	(1-4)	†	7	(1-4)	(1-4)	(1-4)	8
Ashfield	†	†	†	†	†	†	†	(1-4)	†	(1-4)	†	†	†	†
Ashland	5	8	7	5	25	(1-4)	(1-4)	9	(1-4)	19	(1-4)	(1-4)	(1-4)	10
Athol	7	13	13	8	41	19	34	18	21	92	6	6	10	22
Attleboro	41	35	48	30	154	44	28	49	42	163	33	72	38	143
Auburn	6	11	7	7	31	8	16	7	5	36	8	8	5	21
Avon	(1-4)	(1-4)	(1-4)	†	8	†	5	(1-4)	(1-4)	12	(1-4)	(1-4)	†	(1-4)
Ayer	(1-4)	(1-4)	(1-4)	(1-4)	9	*	8	(1-4)	6	22	*	9	(1-4)	16
Barnstable	66	52	93	44	255	42	46	49	37	174	44	35	39	118
Barre	6	(1-4)	5	(1-4)	14	6	(1-4)	8	(1-4)	18	9	*	(1-4)	18
Becket	†	(1-4)	†	(1-4)	(1-4)	†	†	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)
Bedford	*	9	8	(1-4)	24	7	8	*	(1-4)	23	(1-4)	8	*	19
Belchertown	(1-4)	6	*	6	20	10	9	*	(1-4)	30	(1-4)	(1-4)	5	10
Bellingham	11	16	6	13	46	9	†	5	7	21	(1-4)	9	(1-4)	15
Belmont	(1-4)	8	12	*	29	8	9	(1-4)	(1-4)	23	*	8	(1-4)	17
Berkley	(1-4)	(1-4)	(1-4)	(1-4)	9	(1-4)	(1-4)	(1-4)	(1-4)	9	(1-4)	(1-4)	(1-4)	8
Berlin	(1-4)	†	(1-4)	†	(1-4)	(1-4)	†	(1-4)	†	(1-4)	†	†	(1-4)	(1-4)
Bernardston	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Beverly	28	37	26	24	115	23	22	33	25	103	18	32	22	72
Billerica	20	13	44	20	97	33	25	18	17	93	18	19	9	46
Blackstone	(1-4)	9	13	*	31	*	10	(1-4)	7	27	(1-4)	7	(1-4)	12
Blandford	†	†	†	†	†	†	†	†	(1-4)	(1-4)	†	†	†	†
Bolton	(1-4)	†	(1-4)	†	(1-4)	(1-4)	†	(1-4)	†	(1-4)	†	†	(1-4)	(1-4)
Boston	345	860	1,209	913	3,327	794	934	953	706	3,387	669	912	1,014	2,595
Bourne	15	33	20	22	90	(1-4)	*	19	18	57	10	18	13	41

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City/Town	2017					2018					2019			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Boxborough	†	(1-4)	(1-4)	(1-4)	8	†	†	†	(1-4)	(1-4)	(1-4)	†	†	(1-4)
Boxford	(1-4)	(1-4)	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	5	(1-4)	(1-4)	†	(1-4)
Boylston	†	†	(1-4)	†	(1-4)	†	(1-4)	†	†	(1-4)	†	(1-4)	†	(1-4)
Braintree	25	34	40	29	128	26	36	26	16	104	23	15	19	57
Brewster	†	6	(1-4)	(1-4)	13	(1-4)	(1-4)	5	(1-4)	13	(1-4)	(1-4)	(1-4)	6
Bridgewater	(1-4)	(1-4)	(1-4)	(1-4)	7	13	24	25	17	79	9	9	12	30
Brimfield	†	†	†	†	†	†	†	†	(1-4)	(1-4)	(1-4)	(1-4)	†	(1-4)
Brockton	210	192	275	207	884	200	232	240	179	851	190	211	151	552
Brookfield	(1-4)	(1-4)	(1-4)	(1-4)	9	†	(1-4)	(1-4)	(1-4)	5	(1-4)	†	(1-4)	(1-4)
Brookline	13	20	14	13	60	10	11	13	11	45	14	13	8	35
Buckland	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Burlington	10	15	21	15	61	9	10	15	13	47	11	9	6	26
Cambridge	102	94	110	75	381	71	99	86	97	353	82	71	117	270
Canton	9	9	8	14	40	*	8	8	(1-4)	28	*	(1-4)	8	18
Carlisle	†	†	(1-4)	†	(1-4)	†	(1-4)	†	(1-4)	6	†	†	†	†
Carver	10	13	8	11	42	(1-4)	(1-4)	12	(1-4)	21	*	10	(1-4)	21
Charlemont	†	†	†	†	†	(1-4)	†	†	(1-4)	(1-4)	†	(1-4)	†	(1-4)
Charlton	(1-4)	(1-4)	(1-4)	(1-4)	11	(1-4)	5	(1-4)	(1-4)	13	(1-4)	5	(1-4)	9
Chatham	5	(1-4)	(1-4)	(1-4)	12	(1-4)	(1-4)	(1-4)	(1-4)	9	†	(1-4)	(1-4)	(1-4)
Chelmsford	22	15	14	15	66	17	14	12	14	57	6	13	10	29
Chelsea	51	86	92	44	273	72	73	73	41	259	37	52	68	157
Cheshire	(1-4)	(1-4)	†	†	(1-4)	(1-4)	†	(1-4)	(1-4)	5	†	†	(1-4)	(1-4)
Chester	(1-4)	†	(1-4)	†	(1-4)	(1-4)	†	†	†	(1-4)	(1-4)	†	(1-4)	(1-4)
Chesterfield	†	†	(1-4)	†	(1-4)	†	(1-4)	†	(1-4)	(1-4)	(1-4)	†	†	(1-4)
Chicopee	50	60	72	82	264	90	112	64	64	330	71	101	88	260
Chilmark	†	†	†	(1-4)	(1-4)	(1-4)	†	(1-4)	†	(1-4)	†	†	†	†
Clarksburg	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Clinton	6	13	14	17	50	9	20	11	6	46	*	11	(1-4)	21
Cohasset	†	(1-4)	(1-4)	(1-4)	9	†	†	(1-4)	†	(1-4)	(1-4)	†	(1-4)	(1-4)
Colrain	†	†	†	†	†	(1-4)	†	(1-4)	(1-4)	(1-4)	†	(1-4)	†	(1-4)
Concord	(1-4)	(1-4)	(1-4)	(1-4)	12	(1-4)	5	(1-4)	†	11	(1-4)	†	*	7
Conway	†	†	†	†	†	†	†	†	(1-4)	(1-4)	†	†	†	†
Cummington	†	†	(1-4)	†	(1-4)	†	†	†	†	†	†	(1-4)	†	(1-4)
Dalton	(1-4)	(1-4)	†	†	(1-4)	†	(1-4)	(1-4)	5	13	7	(1-4)	(1-4)	11
Danvers	31	42	39	40	152	49	45	33	35	162	40	30	34	104
Dartmouth	19	27	23	29	98	33	26	32	33	124	34	31	17	82
Dedham	18	15	22	15	70	14	23	8	7	52	13	15	11	39

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City/Town	2017					2018					2019			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Deerfield	†	(1-4)	†	(1-4)	7	†	(1-4)	(1-4)	5	8	(1-4)	†	(1-4)	5
Dennis	10	10	20	15	55	7	13	9	7	36	11	9	8	28
Dighton	(1-4)	(1-4)	†	†	(1-4)	(1-4)	(1-4)	†	†	(1-4)	(1-4)	†	(1-4)	(1-4)
Douglas	†	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	11	(1-4)	*	†	7
Dover	†	†	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	7	†	†	†	†
Dracut	17	24	32	20	93	22	19	12	20	73	5	28	16	49
Dudley	(1-4)	8	*	7	24	5	19	13	13	50	18	8	6	32
Dunstable	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)	†	†	†	(1-4)	(1-4)	*	†	6
Duxbury	(1-4)	(1-4)	(1-4)	5	13	(1-4)	(1-4)	(1-4)	(1-4)	10	(1-4)	(1-4)	(1-4)	9
East Bridgewater	5	6	5	9	25	6	5	16	8	35	9	5	5	19
East Brookfield	†	†	(1-4)	†	(1-4)	†	(1-4)	(1-4)	†	(1-4)	†	(1-4)	†	(1-4)
East Longmeadow	8	5	5	7	25	*	(1-4)	9	7	25	8	8	8	24
Eastham	(1-4)	(1-4)	5	†	9	(1-4)	(1-4)	(1-4)	(1-4)	8	(1-4)	(1-4)	(1-4)	6
Easthampton	(1-4)	*	12	5	26	8	11	7	6	32	10	(1-4)	*	22
Easton	(1-4)	(1-4)	6	12	21	13	12	10	12	47	9	(1-4)	*	21
Edgartown	(1-4)	(1-4)	(1-4)	†	5	(1-4)	†	(1-4)	(1-4)	6	(1-4)	(1-4)	(1-4)	5
Egremont	†	†	†	†	†	†	†	(1-4)	†	(1-4)	†	†	†	†
Erving	(1-4)	†	†	(1-4)	(1-4)	†	(1-4)	†	†	(1-4)	(1-4)	†	(1-4)	(1-4)
Essex	(1-4)	(1-4)	(1-4)	(1-4)	5	(1-4)	†	(1-4)	†	(1-4)	(1-4)	†	*	9
Everett	38	43	53	42	176	41	43	30	41	155	38	39	38	115
Fairhaven	11	15	12	13	51	13	20	12	11	56	6	12	16	34
Fall River	204	177	265	261	907	172	272	387	284	1,115	194	262	271	727
Falmouth	39	49	31	34	153	35	35	32	35	137	41	33	32	106
Fitchburg	79	78	105	82	344	66	80	83	46	275	86	72	69	227
Florida	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Foxborough	14	10	11	7	42	(1-4)	*	13	9	33	11	9	10	30
Framingham	47	37	52	57	193	42	63	52	50	207	43	71	46	160
Franklin	16	15	*	(1-4)	47	9	9	5	10	33	7	11	6	24
Freetown	(1-4)	(1-4)	(1-4)	(1-4)	11	(1-4)	9	5	(1-4)	18	(1-4)	(1-4)	(1-4)	6
Gardner	24	14	20	13	71	12	27	29	35	103	24	30	42	96
Georgetown	(1-4)	(1-4)	(1-4)	(1-4)	7	*	(1-4)	†	7	15	(1-4)	5	(1-4)	10
Gill	†	†	†	†	†	†	(1-4)	(1-4)	(1-4)	5	†	†	(1-4)	(1-4)
Gloucester	18	27	43	31	119	31	28	32	19	110	15	32	28	75
Goshen	†	†	†	†	†	†	†	†	†	†	†	(1-4)	†	(1-4)
Gosnold	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Grafton	*	7	10	(1-4)	25	(1-4)	6	(1-4)	8	18	(1-4)	7	(1-4)	12

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City/Town	2017					2018					2019			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Granby	(1-4)	(1-4)	6	11	19	(1-4)	8	(1-4)	6	22	(1-4)	†	(1-4)	6
Granville	†	†	†	†	†	†	†	†	†	†	(1-4)	†	†	(1-4)
Great Barrington	(1-4)	(1-4)	(1-4)	(1-4)	13	(1-4)	(1-4)	5	7	17	*	7	(1-4)	14
Greenfield	12	17	20	9	58	15	11	25	17	68	27	29	26	82
Groton	(1-4)	(1-4)	†	†	(1-4)	(1-4)	(1-4)	(1-4)	†	8	(1-4)	(1-4)	†	(1-4)
Groveland	(1-4)	(1-4)	†	(1-4)	7	†	(1-4)	(1-4)	(1-4)	6	†	(1-4)	(1-4)	(1-4)
Hadley	(1-4)	6	7	(1-4)	19	(1-4)	(1-4)	(1-4)	(1-4)	12	(1-4)	(1-4)	(1-4)	7
Halifax	(1-4)	(1-4)	5	11	22	7	5	(1-4)	(1-4)	19	(1-4)	(1-4)	(1-4)	11
Hamilton	(1-4)	(1-4)	(1-4)	(1-4)	7	†	(1-4)	†	(1-4)	(1-4)	(1-4)	†	(1-4)	(1-4)
Hampden	(1-4)	(1-4)	5	†	8	5	(1-4)	(1-4)	6	17	(1-4)	*	9	19
Hancock	†	(1-4)	†	†	(1-4)	†	†	†	†	†	†	†	†	†
Hanover	(1-4)	5	5	(1-4)	17	(1-4)	5	(1-4)	(1-4)	12	6	(1-4)	(1-4)	13
Hanson	(1-4)	8	(1-4)	(1-4)	20	11	(1-4)	(1-4)	5	21	5	(1-4)	(1-4)	10
Hardwick	(1-4)	†	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	7	(1-4)	(1-4)	(1-4)	(1-4)
Harvard	(1-4)	†	†	(1-4)	(1-4)	†	†	†	†	†	(1-4)	†	(1-4)	5
Harwich	11	7	10	9	37	6	9	(1-4)	(1-4)	23	*	(1-4)	5	13
Hatfield	†	(1-4)	(1-4)	†	6	(1-4)	(1-4)	†	(1-4)	(1-4)	†	(1-4)	(1-4)	(1-4)
Haverhill	90	87	126	82	385	80	86	78	83	327	59	58	73	190
Hawley	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Heath	(1-4)	†	†	(1-4)	(1-4)	†	†	†	†	†	†	†	†	†
Hingham	(1-4)	(1-4)	5	(1-4)	12	6	(1-4)	(1-4)	5	15	*	†	(1-4)	6
Hinsdale	†	†	†	†	†	†	(1-4)	(1-4)	(1-4)	5	†	(1-4)	†	(1-4)
Holbrook	16	17	18	9	60	8	12	12	6	38	(1-4)	9	*	18
Holden	(1-4)	(1-4)	5	(1-4)	12	(1-4)	(1-4)	(1-4)	(1-4)	11	(1-4)	(1-4)	(1-4)	7
Holland	†	†	(1-4)	†	(1-4)	(1-4)	(1-4)	†	†	(1-4)	†	†	†	†
Holliston	(1-4)	(1-4)	(1-4)	5	14	(1-4)	(1-4)	†	(1-4)	6	(1-4)	9	(1-4)	13
Holyoke	59	70	89	69	287	89	169	109	92	459	115	135	161	411
Hopedale	(1-4)	(1-4)	(1-4)	(1-4)	7	(1-4)	(1-4)	†	(1-4)	9	(1-4)	7	(1-4)	10
Hopkinton	(1-4)	6	(1-4)	(1-4)	14	6	(1-4)	7	(1-4)	18	(1-4)	(1-4)	(1-4)	8
Hubbardston	(1-4)	(1-4)	(1-4)	†	7	(1-4)	†	(1-4)	6	8	(1-4)	†	(1-4)	(1-4)
Hudson	8	6	9	10	33	7	11	8	6	32	8	5	7	20
Hull	(1-4)	(1-4)	(1-4)	†	8	†	(1-4)	8	(1-4)	12	(1-4)	5	(1-4)	11
Huntington	†	†	(1-4)	†	(1-4)	†	†	†	†	†	†	†	(1-4)	(1-4)
Ipswich	*	9	(1-4)	7	26	(1-4)	(1-4)	10	(1-4)	17	(1-4)	(1-4)	5	8
Kingston	6	5	11	5	27	12	7	(1-4)	(1-4)	27	(1-4)	9	*	18
Lakeville	19	16	24	30	89	24	19	26	23	92	15	32	14	61

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City/Town	2017					2018					2019			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Lancaster	†	(1-4)	(1-4)	(1-4)	**7**	(1-4)	(1-4)	8	(1-4)	**14**	(1-4)	(1-4)	7	**12**
Lanesborough	†	(1-4)	†	†	**(1-4)**	†	(1-4)	(1-4)	(1-4)	**9**	(1-4)	(1-4)	(1-4)	**5**
Lawrence	156	183	255	220	**814**	183	176	188	163	**710**	138	151	163	**452**
Lee	(1-4)	(1-4)	(1-4)	(1-4)	**9**	(1-4)	5	(1-4)	(1-4)	**11**	(1-4)	†	†	**(1-4)**
Leicester	10	7	6	8	**31**	6	5	(1-4)	(1-4)	**19**	*	7	(1-4)	**18**
Lenox	(1-4)	5	(1-4)	(1-4)	**11**	†	(1-4)	(1-4)	†	**5**	(1-4)	(1-4)	5	**11**
Leominster	68	57	72	56	**253**	46	64	56	72	**238**	50	56	32	**138**
Leverett	(1-4)	†	†	†	**(1-4)**	†	†	†	†	**†**	†	†	†	**†**
Lexington	5	(1-4)	5	(1-4)	**16**	(1-4)	(1-4)	(1-4)	(1-4)	**7**	(1-4)	(1-4)	(1-4)	**9**
Leyden	†	†	†	†	**†**	†	†	†	†	**†**	†	†	†	**†**
Lincoln	(1-4)	(1-4)	(1-4)	(1-4)	**10**	†	†	†	†	**†**	†	(1-4)	†	**(1-4)**
Littleton	(1-4)	(1-4)	(1-4)	(1-4)	**11**	†	†	(1-4)	(1-4)	**(1-4)**	(1-4)	5	(1-4)	**8**
Longmeadow	(1-4)	(1-4)	(1-4)	(1-4)	**9**	(1-4)	(1-4)	(1-4)	7	**16**	(1-4)	(1-4)	(1-4)	**7**
Lowell	357	399	400	310	**1,466**	270	250	284	290	**1,094**	187	200	179	**566**
Ludlow	11	6	17	12	**46**	10	19	12	10	**51**	10	9	10	**29**
Lunenburg	(1-4)	(1-4)	(1-4)	(1-4)	**8**	(1-4)	*	9	8	**27**	(1-4)	(1-4)	6	**13**
Lynn	126	154	183	158	**621**	121	163	211	119	**614**	100	136	160	**396**
Lynnfield	(1-4)	(1-4)	(1-4)	(1-4)	**10**	5	(1-4)	(1-4)	8	**18**	(1-4)	(1-4)	(1-4)	**7**
Malden	34	55	75	44	**208**	54	51	57	46	**208**	27	57	53	**137**
Manchester	(1-4)	(1-4)	†	(1-4)	**6**	†	†	†	(1-4)	**(1-4)**	(1-4)	†	†	**(1-4)**
Mansfield	7	11	8	18	**44**	9	12	8	8	**37**	8	19	8	**35**
Marblehead	9	5	7	10	**31**	(1-4)	6	9	(1-4)	**19**	(1-4)	5	(1-4)	**11**
Marion	(1-4)	(1-4)	(1-4)	(1-4)	**8**	(1-4)	(1-4)	(1-4)	(1-4)	**7**	(1-4)	(1-4)	(1-4)	**9**
Marlborough	11	9	19	17	**56**	22	14	22	24	**82**	17	19	21	**57**
Marshfield	8	7	11	17	**43**	8	11	(1-4)	*	**30**	5	14	8	**27**
Mashpee	16	17	10	11	**54**	9	12	9	8	**38**	10	11	10	**31**
Mattapoisett	(1-4)	(1-4)	6	5	**15**	5	(1-4)	9	(1-4)	**19**	6	(1-4)	(1-4)	**12**
Maynard	8	10	(1-4)	(1-4)	**24**	(1-4)	(1-4)	(1-4)	(1-4)	**8**	(1-4)	(1-4)	†	**5**
Medfield	5	(1-4)	(1-4)	(1-4)	**11**	†	(1-4)	(1-4)	(1-4)	**6**	(1-4)	(1-4)	†	**5**
Medford	17	24	31	28	**100**	18	22	37	22	**99**	26	29	17	**72**
Medway	*	8	17	(1-4)	**36**	8	5	7	7	**27**	*	9	(1-4)	**20**
Melrose	6	5	15	7	**33**	9	6	5	5	**25**	(1-4)	*	9	**20**
Mendon	(1-4)	5	†	(1-4)	**7**	(1-4)	†	(1-4)	(1-4)	**8**	(1-4)	(1-4)	(1-4)	**7**
Merrimac	(1-4)	(1-4)	7	5	**16**	6	†	(1-4)	(1-4)	**10**	(1-4)	(1-4)	(1-4)	**7**
Methuen	30	40	61	46	**177**	39	42	56	43	**180**	44	48	37	**129**
Middleborough	(1-4)	(1-4)	(1-4)	5	**10**	(1-4)	(1-4)	†	(1-4)	**(1-4)**	†	(1-4)	(1-4)	**(1-4)**
Middlefield	†	†	†	†	**†**	†	†	†	†	**†**	†	†	†	**†**

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	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Middleton	(1-4)	(1-4)	7	8	21	14	(1-4)	*	8	32	(1-4)	10	(1-4)	16
Milford	12	27	13	18	70	20	15	10	25	70	24	17	21	62
Millbury	12	11	10	15	48	8	15	13	11	47	9	8	8	25
Millis	6	(1-4)	5	(1-4)	15	7	†	(1-4)	(1-4)	14	(1-4)	(1-4)	(1-4)	8
Millville	†	†	(1-4)	(1-4)	7	(1-4)	(1-4)	†	(1-4)	7	†	(1-4)	†	(1-4)
Milton	9	10	10	5	34	9	(1-4)	7	*	24	(1-4)	(1-4)	8	13
Monroe	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Monson	(1-4)	(1-4)	6	(1-4)	17	(1-4)	(1-4)	(1-4)	(1-4)	12	(1-4)	(1-4)	6	11
Montague	6	*	8	(1-4)	23	(1-4)	11	8	*	28	(1-4)	*	12	25
Monterey	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Montgomery	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Mount Washington	†	†	†	†	†	†	†	†	†	†	†	†	†	†
Nahant	†	(1-4)	(1-4)	†	6	(1-4)	(1-4)	†	(1-4)	7	†	(1-4)	†	(1-4)
Nantucket	(1-4)	(1-4)	(1-4)	(1-4)	11	(1-4)	(1-4)	5	5	14	†	†	(1-4)	(1-4)
Natick	7	6	8	9	30	8	7	9	11	35	18	14	14	46
Needham	(1-4)	†	(1-4)	(1-4)	7	(1-4)	(1-4)	(1-4)	(1-4)	9	6	(1-4)	(1-4)	10
New Ashford	†	†	†	†	†	†	†	†	†	†	†	†	†	†
New Bedford	126	210	246	138	720	146	264	205	136	751	196	157	99	452
New Braintree	†	(1-4)	†	†	(1-4)	†	†	(1-4)	†	(1-4)	†	(1-4)	(1-4)	(1-4)
New Marlborough	†	(1-4)	†	†	(1-4)	†	†	(1-4)	(1-4)	(1-4)	(1-4)	†	†	(1-4)
New Salem	†	(1-4)	(1-4)	†	(1-4)	†	†	†	†	†	†	†	†	†
Newbury	(1-4)	(1-4)	†	(1-4)	6	†	(1-4)	(1-4)	5	9	(1-4)	(1-4)	†	5
Newburyport	5	(1-4)	9	(1-4)	18	(1-4)	6	(1-4)	(1-4)	18	(1-4)	(1-4)	(1-4)	11
Newton	19	19	16	18	72	21	15	14	19	69	11	19	7	37
Norfolk	(1-4)	(1-4)	(1-4)	(1-4)	7	(1-4)	(1-4)	(1-4)	†	5	(1-4)	(1-4)	(1-4)	7
North Adams	10	10	18	15	53	18	26	30	13	87	27	26	12	65
North Andover	21	15	16	25	77	13	7	13	5	38	12	11	13	36
North Attleboro	12	28	22	22	84	21	19	15	18	73	9	18	22	49
North Brookfield	†	(1-4)	†	(1-4)	5	(1-4)	†	†	(1-4)	(1-4)	†	†	(1-4)	(1-4)
North Reading	(1-4)	9	(1-4)	(1-4)	18	(1-4)	6	(1-4)	10	23	(1-4)	5	(1-4)	11
Northampton	30	22	18	23	93	16	38	22	26	102	34	22	23	79
Northborough	(1-4)	(1-4)	6	(1-4)	14	(1-4)	7	(1-4)	9	21	7	(1-4)	(1-4)	13
Northbridge	5	6	9	7	27	7	15	12	6	40	6	10	8	24
Northfield	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	†	(1-4)	(1-4)	†	†	†	†
Norton	(1-4)	(1-4)	9	7	24	11	9	7	5	32	(1-4)	8	(1-4)	13

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	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Norwell	*	7	(1-4)	6	**22**	(1-4)	5	(1-4)	5	**17**	*	5	(1-4)	**11**
Norwood	18	17	21	14	**70**	9	12	22	8	**51**	18	12	9	**39**
Oak Bluffs	(1-4)	†	(1-4)	(1-4)	**5**	(1-4)	(1-4)	†	(1-4)	**5**	(1-4)	(1-4)	(1-4)	**7**
Oakham	(1-4)	†	(1-4)	†	**(1-4)**	(1-4)	(1-4)	†	†	**(1-4)**	†	†	†	**†**
Orange	8	(1-4)	5	(1-4)	**20**	(1-4)	12	10	*	**29**	9	*	(1-4)	**20**
Orleans	5	(1-4)	(1-4)	(1-4)	**11**	(1-4)	(1-4)	(1-4)	7	**16**	(1-4)	(1-4)	(1-4)	**5**
Otis	†	†	†	†	**†**	†	(1-4)	†	†	**(1-4)**	†	†	†	**†**
Oxford	12	*	(1-4)	12	**37**	(1-4)	14	*	20	**50**	9	9	9	**27**
Palmer	(1-4)	9	*	8	**27**	16	15	14	8	**53**	10	10	9	**29**
Paxton	(1-4)	(1-4)	(1-4)	†	**6**	(1-4)	(1-4)	(1-4)	(1-4)	**9**	(1-4)	(1-4)	(1-4)	**(1-4)**
Peabody	36	38	56	42	**172**	44	57	40	35	**176**	32	32	34	**98**
Pelham	†	†	(1-4)	†	**(1-4)**	†	†	(1-4)	†	**(1-4)**	†	†	†	**†**
Pembroke	12	8	7	5	**32**	7	6	†	7	**20**	5	8	9	**22**
Pepperell	(1-4)	(1-4)	6	(1-4)	**14**	7	(1-4)	(1-4)	(1-4)	**14**	(1-4)	(1-4)	†	**(1-4)**
Peru	†	†	†	†	**†**	†	†	†	†	**†**	†	†	†	**†**
Petersham	†	†	†	†	**†**	†	†	†	†	**†**	(1-4)	†	†	**(1-4)**
Phillipston	†	†	†	†	**†**	†	†	†	†	**†**	†	†	(1-4)	**(1-4)**
Pittsfield	17	44	36	16	**113**	38	67	69	64	**238**	57	46	96	**199**
Plainfield	†	(1-4)	(1-4)	(1-4)	**5**	(1-4)	†	(1-4)	(1-4)	**6**	(1-4)	(1-4)	†	**(1-4)**
Plainville	8	6	5	7	**26**	(1-4)	(1-4)	5	(1-4)	**15**	(1-4)	9	(1-4)	**17**
Plymouth	59	68	84	69	**280**	46	74	41	51	**212**	58	57	35	**150**
Plympton	(1-4)	(1-4)	†	†	**(1-4)**	†	(1-4)	(1-4)	(1-4)	**(1-4)**	†	(1-4)	(1-4)	**(1-4)**
Princeton	†	(1-4)	(1-4)	(1-4)	**6**	(1-4)	(1-4)	†	(1-4)	**5**	†	(1-4)	†	**(1-4)**
Provincetown	(1-4)	(1-4)	(1-4)	†	**9**	†	(1-4)	16	(1-4)	**24**	(1-4)	11	*	**23**
Quincy	104	106	186	96	**492**	137	123	135	80	**475**	113	129	110	**352**
Randolph	20	14	20	24	**78**	10	9	15	25	**59**	16	20	15	**51**
Raynham	6	10	12	9	**37**	13	12	10	16	**51**	8	14	12	**34**
Reading	(1-4)	*	12	13	**37**	8	7	*	(1-4)	**25**	(1-4)	(1-4)	(1-4)	**8**
Rehoboth	(1-4)	(1-4)	(1-4)	(1-4)	**10**	†	†	(1-4)	(1-4)	**(1-4)**	(1-4)	†	(1-4)	**(1-4)**
Revere	57	69	81	59	**266**	67	77	73	57	**274**	42	56	54	**152**
Richmond	†	†	†	†	**†**	†	(1-4)	(1-4)	†	**(1-4)**	†	†	(1-4)	**(1-4)**
Rochester	(1-4)	†	(1-4)	(1-4)	**7**	(1-4)	(1-4)	†	(1-4)	**6**	†	5	†	**5**
Rockland	19	19	24	22	**84**	17	16	12	14	**59**	10	9	12	**31**
Rockport	(1-4)	*	†	6	**13**	†	†	(1-4)	(1-4)	**(1-4)**	(1-4)	†	(1-4)	**(1-4)**
Rowe	†	†	†	†	**†**	†	†	†	†	**†**	†	†	†	**†**
Rowley	(1-4)	(1-4)	(1-4)	†	**(1-4)**	†	(1-4)	(1-4)	(1-4)	**6**	(1-4)	†	(1-4)	**(1-4)**
Royalston	†	†	†	(1-4)	**(1-4)**	(1-4)	(1-4)	†	†	**(1-4)**	†	†	†	**†**

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Russell	(1-4)	(1-4)	†	(1-4)	**(1-4)**	(1-4)	(1-4)	†	†	**(1-4)**	(1-4)	(1-4)	(1-4)	**6**
Rutland	7	(1-4)	(1-4)	(1-4)	**14**	(1-4)	(1-4)	(1-4)	†	**5**	(1-4)	(1-4)	(1-4)	**7**
Salem	56	59	80	46	**241**	42	54	54	37	**187**	33	29	41	**103**
Salisbury	18	25	34	30	**107**	17	21	28	17	**83**	9	10	7	**26**
Sandisfield	(1-4)	†	†	†	**(1-4)**	†	†	†	†	**†**	†	†	†	**†**
Sandwich	14	9	6	11	**40**	10	12	*	(1-4)	**35**	7	7	7	**21**
Saugus	25	32	32	28	**117**	29	27	24	18	**98**	33	30	22	**85**
Savoy	†	†	†	†	**†**	†	†	†	†	**†**	†	†	†	**†**
Scituate	(1-4)	(1-4)	6	(1-4)	**13**	(1-4)	(1-4)	5	6	**16**	(1-4)	(1-4)	(1-4)	**9**
Seekonk	5	11	9	7	**32**	(1-4)	(1-4)	6	8	**19**	*	(1-4)	5	**14**
Sharon	(1-4)	(1-4)	(1-4)	7	**19**	5	(1-4)	(1-4)	(1-4)	**15**	(1-4)	(1-4)	†	**(1-4)**
Sheffield	†	(1-4)	(1-4)	(1-4)	**7**	†	†	(1-4)	(1-4)	**5**	(1-4)	(1-4)	(1-4)	**(1-4)**
Shelburne	(1-4)	†	(1-4)	†	**(1-4)**	†	(1-4)	(1-4)	†	**(1-4)**	(1-4)	(1-4)	†	**(1-4)**
Sherborn	†	†	†	(1-4)	**(1-4)**	(1-4)	†	(1-4)	†	**(1-4)**	†	†	†	**†**
Shirley	*	(1-4)	7	6	**21**	7	8	6	6	**27**	5	5	8	**18**
Shrewsbury	8	20	14	19	**61**	25	25	15	14	**79**	16	13	8	**37**
Shutesbury	†	†	†	†	**†**	(1-4)	†	(1-4)	†	**(1-4)**	†	†	†	**†**
Somerset	7	11	15	14	**47**	12	16	*	(1-4)	**37**	(1-4)	10	*	**23**
Somerville	28	43	47	26	**144**	32	33	38	27	**130**	25	33	40	**98**
South Hadley	†	†	(1-4)	(1-4)	**5**	(1-4)	12	14	*	**35**	10	5	11	**26**
Southampton	(1-4)	(1-4)	†	(1-4)	**(1-4)**	†	(1-4)	*	†	**8**	(1-4)	(1-4)	(1-4)	**5**
Southborough	†	†	(1-4)	(1-4)	**5**	(1-4)	(1-4)	7	†	**9**	(1-4)	†	(1-4)	**(1-4)**
Southbridge	7	16	22	27	**72**	8	20	24	25	**77**	33	31	28	**92**
Southwick	9	(1-4)	(1-4)	8	**24**	5	10	5	11	**31**	5	7	7	**19**
Spencer	10	6	9	10	**35**	5	12	6	7	**30**	9	9	19	**37**
Springfield	127	200	243	178	**748**	185	289	266	212	**952**	235	312	346	**893**
Sterling	(1-4)	(1-4)	(1-4)	(1-4)	**10**	*	6	9	(1-4)	**22**	(1-4)	5	(1-4)	**10**
Stockbridge	(1-4)	†	†	(1-4)	**(1-4)**	†	(1-4)	†	†	**(1-4)**	(1-4)	†	†	**(1-4)**
Stoneham	10	11	24	9	**54**	13	10	10	6	**39**	5	14	10	**29**
Stoughton	15	17	20	14	**66**	32	22	26	21	**101**	24	25	19	**68**
Stow	(1-4)	6	(1-4)	(1-4)	**13**	(1-4)	†	(1-4)	(1-4)	**6**	†	†	(1-4)	**(1-4)**
Sturbridge	(1-4)	(1-4)	(1-4)	9	**20**	(1-4)	10	9	*	**27**	6	(1-4)	(1-4)	**13**
Sudbury	(1-4)	(1-4)	(1-4)	(1-4)	**7**	(1-4)	(1-4)	(1-4)	(1-4)	**11**	†	(1-4)	†	**(1-4)**
Sunderland	†	(1-4)	†	†	**(1-4)**	(1-4)	†	(1-4)	(1-4)	**(1-4)**	†	(1-4)	†	**(1-4)**
Sutton	(1-4)	(1-4)	(1-4)	(1-4)	**11**	6	(1-4)	(1-4)	7	**19**	(1-4)	(1-4)	(1-4)	**9**
Swampscott	(1-4)	6	6	(1-4)	**18**	(1-4)	5	(1-4)	(1-4)	**13**	(1-4)	*	†	**7**
Swansea	11	*	16	(1-4)	**35**	*	13	(1-4)	12	**39**	*	(1-4)	13	**30**

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City/Town	2017					2018					2019			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Taunton	43	84	97	79	**303**	72	73	75	71	**291**	64	66	52	**182**
Templeton	5	(1-4)	6	(1-4)	**15**	6	(1-4)	*	6	**21**	*	8	(1-4)	**16**
Tewksbury	47	53	32	22	**154**	44	28	26	23	**121**	18	29	22	**69**
Tisbury	(1-4)	(1-4)	(1-4)	†	**7**	†	†	(1-4)	(1-4)	**5**	(1-4)	(1-4)	†	**(1-4)**
Tolland	†	†	†	†	**†**	†	†	†	†	**†**	†	†	†	**†**
Topsfield	(1-4)	6	†	(1-4)	**9**	(1-4)	†	†	(1-4)	**6**	(1-4)	(1-4)	(1-4)	**5**
Townsend	(1-4)	(1-4)	†	(1-4)	**10**	*	9	(1-4)	†	**16**	(1-4)	(1-4)	(1-4)	**5**
Truro	†	†	†	(1-4)	**(1-4)**	(1-4)	(1-4)	(1-4)	(1-4)	**5**	†	†	(1-4)	**(1-4)**
Tyngsborough	(1-4)	*	9	7	**24**	9	7	(1-4)	(1-4)	**23**	(1-4)	(1-4)	(1-4)	**8**
Tyringham	†	†	†	†	**†**	†	†	†	†	**†**	†	†	(1-4)	**(1-4)**
Upton	†	(1-4)	(1-4)	(1-4)	**11**	(1-4)	(1-4)	(1-4)	(1-4)	**6**	(1-4)	6	(1-4)	**13**
Uxbridge	6	5	7	7	**25**	(1-4)	11	5	(1-4)	**23**	*	(1-4)	7	**15**
Wakefield	10	21	24	14	**69**	9	19	13	13	**54**	20	11	14	**45**
Wales	†	†	(1-4)	(1-4)	**(1-4)**	(1-4)	(1-4)	(1-4)	†	**5**	†	(1-4)	†	**(1-4)**
Walpole	7	8	8	6	**29**	10	17	13	6	**46**	6	10	6	**22**
Waltham	23	38	47	26	**134**	34	33	28	21	**116**	20	31	36	**87**
Ware	(1-4)	6	12	(1-4)	**23**	8	11	9	8	**36**	7	9	5	**21**
Wareham	42	39	53	54	**188**	33	42	54	38	**167**	33	34	25	**92**
Warren	6	(1-4)	(1-4)	†	**13**	(1-4)	6	(1-4)	(1-4)	**15**	6	(1-4)	*	**15**
Warwick	†	(1-4)	†	†	**(1-4)**	†	†	(1-4)	†	**(1-4)**	†	†	†	**†**
Washington	†	†	†	(1-4)	**(1-4)**	†	†	†	†	**†**	†	†	†	**†**
Watertown	6	13	15	14	**48**	16	19	20	11	**66**	9	12	12	**33**
Wayland	(1-4)	(1-4)	(1-4)	(1-4)	**6**	(1-4)	†	†	†	**(1-4)**	(1-4)	†	(1-4)	**(1-4)**
Webster	17	19	27	20	**83**	15	33	41	38	**127**	37	39	26	**102**
Wellesley	(1-4)	(1-4)	(1-4)	6	**14**	(1-4)	(1-4)	(1-4)	7	**16**	(1-4)	(1-4)	(1-4)	**5**
Wellfleet	†	*	5	(1-4)	**11**	†	(1-4)	†	(1-4)	**(1-4)**	†	*	(1-4)	**7**
Wendell	†	†	†	†	**†**	†	†	†	†	**†**	†	(1-4)	†	**(1-4)**
Wenham	(1-4)	†	(1-4)	(1-4)	**(1-4)**	†	(1-4)	†	(1-4)	**(1-4)**	†	†	(1-4)	**(1-4)**
West Boylston	6	(1-4)	(1-4)	6	**17**	(1-4)	5	7	(1-4)	**19**	7	*	(1-4)	**16**
West Bridgewater	(1-4)	5	(1-4)	11	**22**	(1-4)	7	(1-4)	(1-4)	**13**	(1-4)	(1-4)	(1-4)	**7**
West Brookfield	(1-4)	(1-4)	(1-4)	5	**10**	(1-4)	(1-4)	(1-4)	(1-4)	**10**	(1-4)	(1-4)	†	**(1-4)**
West Newbury	†	†	(1-4)	†	**(1-4)**	(1-4)	†	†	†	**(1-4)**	†	†	†	**†**
West Springfield	11	15	40	23	**89**	23	38	23	22	**106**	30	30	33	**93**
West Stockbridge	†	†	†	†	**†**	†	(1-4)	†	†	**(1-4)**	†	†	†	**†**
West Tisbury	†	(1-4)	(1-4)	†	**(1-4)**	†	†	†	†	**†**	(1-4)	†	†	**(1-4)**

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City/Town	2017					2018					2019			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Total
Westborough	5	†	10	11	**26**	14	13	8	12	**47**	14	13	15	**42**
Westfield	13	16	21	21	**71**	31	28	20	15	**94**	21	24	31	**76**
Westford	*	10	(1-4)	6	**26**	8	10	(1-4)	(1-4)	**22**	(1-4)	(1-4)	(1-4)	**10**
Westhampton	(1-4)	†	†	†	**(1-4)**	†	†	†	†	**†**	†	†	†	**†**
Westminster	(1-4)	5	(1-4)	8	**21**	*	(1-4)	6	7	**22**	*	9	(1-4)	**19**
Weston	9	(1-4)	(1-4)	†	**11**	(1-4)	(1-4)	(1-4)	†	**(1-4)**	†	(1-4)	(1-4)	**(1-4)**
Westport	7	8	9	5	**29**	9	9	7	8	**33**	(1-4)	8	(1-4)	**16**
Westwood	(1-4)	5	(1-4)	6	**13**	†	(1-4)	(1-4)	†	**(1-4)**	(1-4)	†	†	**(1-4)**
Weymouth	51	59	76	64	**250**	54	52	31	41	**178**	43	49	48	**140**
Whately	(1-4)	(1-4)	†	(1-4)	**(1-4)**	†	†	(1-4)	(1-4)	**(1-4)**	(1-4)	(1-4)	(1-4)	**7**
Whitman	9	7	26	11	**53**	14	9	10	11	**44**	11	8	10	**29**
Wilbraham	5	8	6	8	**27**	8	13	8	11	**40**	12	(1-4)	*	**23**
Williamsburg	(1-4)	(1-4)	(1-4)	†	**5**	(1-4)	†	†	†	**(1-4)**	(1-4)	†	(1-4)	**(1-4)**
Williamstown	†	(1-4)	(1-4)	†	**(1-4)**	(1-4)	(1-4)	†	(1-4)	**7**	(1-4)	(1-4)	(1-4)	**8**
Wilmington	7	19	22	26	**74**	21	15	8	5	**49**	16	10	13	**39**
Winchendon	†	5	7	7	**19**	7	9	7	6	**29**	(1-4)	12	*	**24**
Winchester	(1-4)	†	(1-4)	(1-4)	**8**	(1-4)	(1-4)	(1-4)	6	**14**	(1-4)	8	*	**17**
Windsor	†	†	†	†	**†**	†	†	†	†	**†**	†	(1-4)	†	**(1-4)**
Winthrop	5	11	12	9	**37**	9	8	12	13	**42**	*	8	(1-4)	**19**
Woburn	45	37	46	29	**157**	33	39	27	32	**131**	27	29	37	**93**
Worcester	288	386	473	463	**1,610**	362	471	482	464	**1,779**	411	371	151	**933**
Worthington	†	(1-4)	†	†	**(1-4)**	†	†	†	†	**†**	†	†	†	**†**
Wrentham	6	7	9	6	**28**	(1-4)	(1-4)	(1-4)	7	**16**	(1-4)	*	9	**19**
Yarmouth	18	29	35	17	**99**	10	19	15	14	**58**	19	21	20	**60**
Unknown	49	48	64	54	**215**	22	11	7	8	**48**	(1-4)	(1-4)	(1-4)	**12**
Grand Total	**4,909**	**6,148**	**7,646**	**6,131**	**24,834**	**5,632**	**6,726**	**6,624**	**5,592**	**24,574**	**5,248**	**6,006**	**5,555**	**16,809**

Technical Notes
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Source
- Bureau of Health Care Safety and Quality, MDPH