



MA Opioid-Related EMS Incidents 2013-Q2 2021

Massachusetts Department of Public Health

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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. Beginning with the August 2017 report, incidents are only among people ages 11 and above. This report documents all opioid-related events in Massachusetts, defined as 911 calls in which opioids are involved; not all events are clinical overdoses and not all are nonfatal. Starting with this report, the MATRIS section will provide additional information on five severity categories: dead on arrival (of opioid overdose), acute opioid overdose, opioid intoxicated, opioid withdrawal, and other opioid-related incident. All opioid-related events are sorted into one of the five categories as determined by the patient's listed complaints, the EMS provider's impressions, the narrative report details of the incident and treatments, the presence of naloxone administration and the patient's response to it, and the patient's disposition (their treatment and transport status).

Results

The percentage of EMS incidents that are considered opioid-related (Figure 1) increased on average 14.1% per six-month period from 2013 until mid-2016 and then began decreasing 2.4% per six-month period through mid-2021. The number of all EMS incidents involving naloxone administration (Figure 2) increased on average 16.2% per six-month period from 2013 until mid-2016 and then began decreasing 0.9% per six-month period through mid-2021. From Jan-Jun 2021, the greatest number of suspected opioid-related incidents treated by EMS continued to be among males aged 25-34, accounting for 22% of opioid-related incidents with a known age and sex. In the first half of 2021, 53.1% of all Opioid-Related Events were categorized as Acute Opioid Overdose Events, 21.2% were categorized as Other Opioid Related Events, 19.3% were categorized as Opioid Intoxicated Events, 4.7% were categorized as Opioid Withdrawal Events, and 1.7% were categorized as Dead on Arrival Events. Naloxone was administered in 96% of the Acute Opioid Overdose Events during the first six months of 2021 (Figure 3).

All Suspected Opioid Related Incidents by Sex: 2021 (Jan-Jun)								
	11-14	15-24	25-34	35-44	45-54	55-64	65+	Total
Male	(1-4)	406	2,341	2,103	1,278	888	330	7,346*
Female	(1-4)	280	978	909	457	380	225	3,229*
Total	(1-4)	686	3,319	3,012	1,735	1,268	555	10,575*

*Total of non-suppressed numbers

All Suspected Opioid Related Incidents by Severity Category							
ORI Severity Category	Jan 2021	Feb 2021	Mar 2021	April 2021	May 2021	June 2021	Total
DOA Events	35	25	40	31	31	23	185
DOA %	2.0%	1.6%	2.1%	1.7%	1.6%	1.2%	1.7%
Acute Overdose Events	871	852	980	969	1,053	983	5,708
Acute Overdose %	50.8%	54.5%	52.6%	54.0%	54.4%	52.5%	53.1%
Opioid Intoxicated Events	357	279	368	336	368	365	2,073
Opioid Intoxicated %	20.8%	17.8%	19.8%	18.7%	19.0%	19.5%	19.3%
Opioid Withdrawal Events	75	72	97	85	82	90	501
Opioid Withdrawal %	4.4%	4.6%	5.2%	4.7%	4.2%	4.8%	4.7%
Other Opioid-Related Events	376	336	377	375	403	410	2,277
Other Opioid-Related %	21.9%	21.5%	20.2%	20.9%	20.8%	21.9%	21.2%
Total	1,714	1,564	1,862	1,796	1,937	1,871	10,744

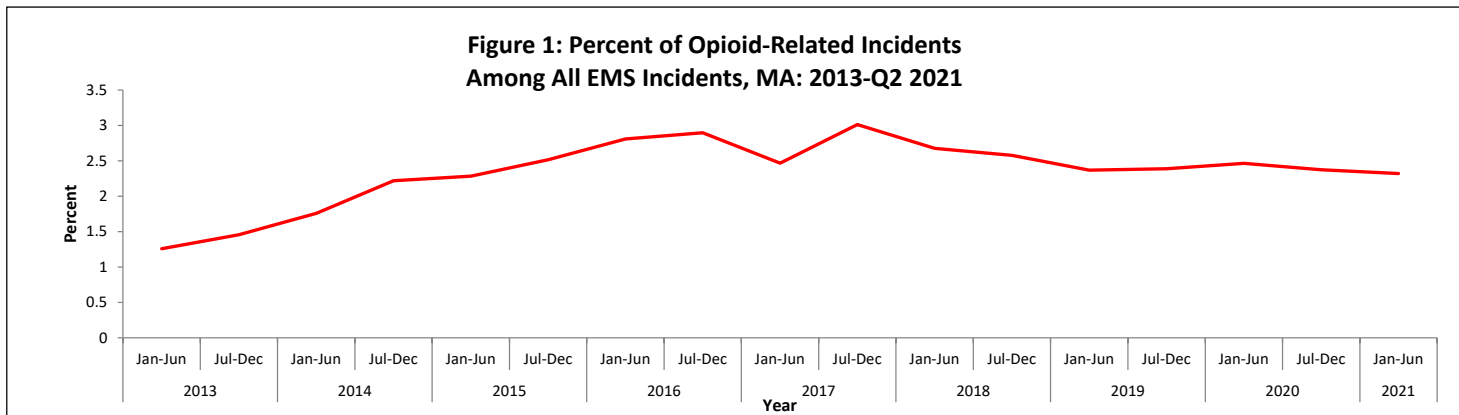


Figure 2: Severity Breakdown of Opioid-Related Incidents, MA: 2013-Q2 2021

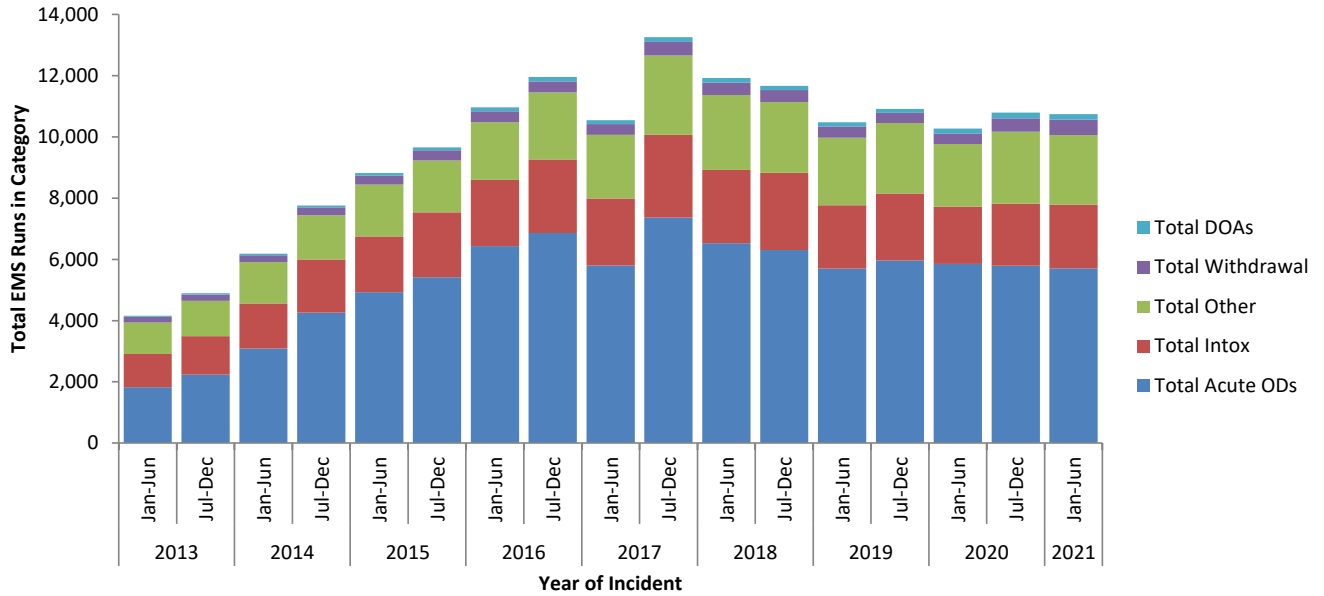


Figure 3: Percent of Acute Overdose Incidents Involving Naloxone Administration, MA: 2013-Q2 2021

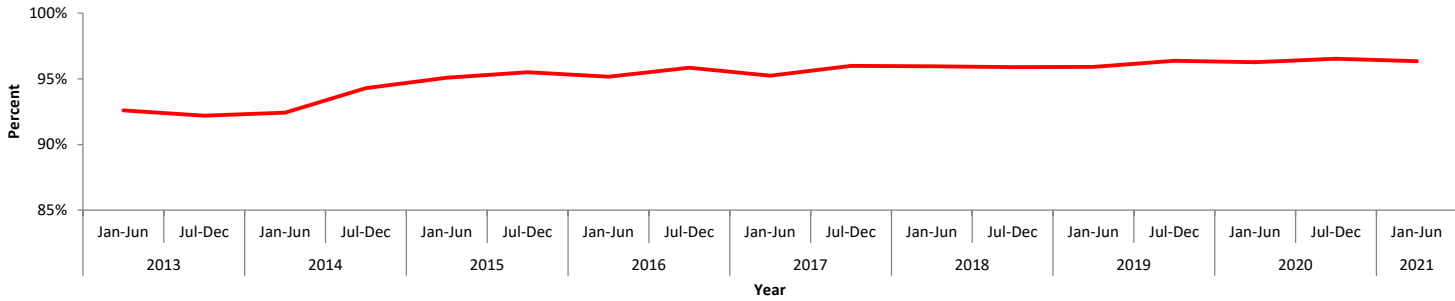
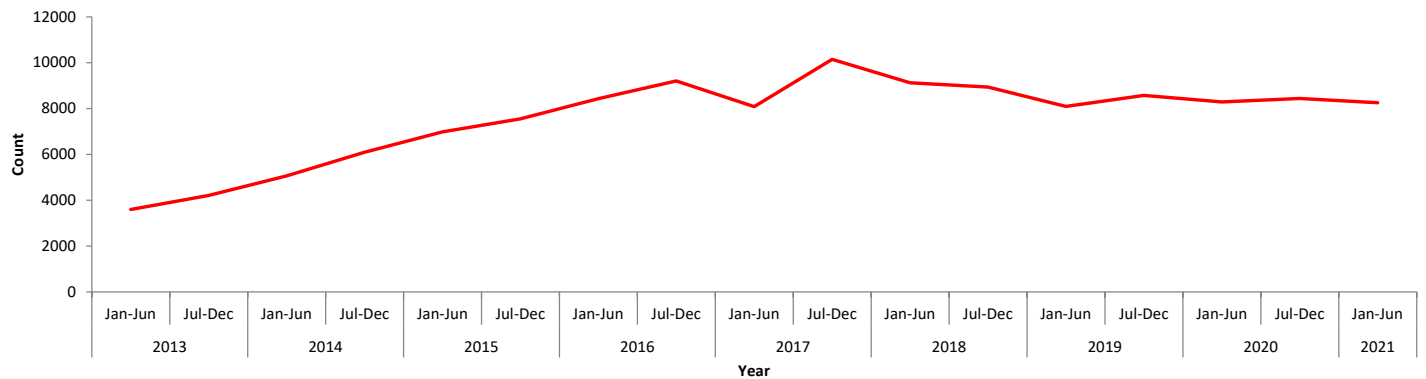


Figure 4: Count of All EMS Incidents Involving Naloxone Administration, MA: 2013-Q2 2021



All Suspected Opioid-Related Incidents by Town Where Incident Occurred in MA, 2019-Q2 2021

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	2019					2020					2021		
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Total
Abington	*	8	9	(1-4)	29	10	(1-4)	8	*	28	8	9	17
Acton	(1-4)	(1-4)	(1-4)	6	12	†	(1-4)	(1-4)	(1-4)	10	(1-4)	(1-4)	6
Acushnet	†	6	(1-4)	(1-4)	9	8	9	7	10	34	7	5	12
Adams	6	(1-4)	(1-4)	(1-4)	15	7	8	9	5	29	11	8	19
Agawam	14	28	12	16	70	13	23	16	20	72	15	11	26
Alford	(1-4)	†	†	†	(1-4)	†	†	†	†	†	†	†	†
Amesbury	*	9	(1-4)	9	29	8	12	10	7	37	*	(1-4)	9
Amherst	*	7	(1-4)	15	31	11	6	*	(1-4)	24	*	(1-4)	10
Andover	10	12	12	9	43	*	18	20	(1-4)	51	15	15	30
Aquinnah	†	†	†	†	†	†	†	†	†	†	†	†	†
Arlington	10	7	6	7	30	12	7	7	8	34	10	15	25
Ashburnham	6	(1-4)	(1-4)	(1-4)	14	(1-4)	(1-4)	(1-4)	7	14	(1-4)	†	(1-4)
Ashby	(1-4)	(1-4)	(1-4)	(1-4)	10	(1-4)	(1-4)	(1-4)	†	(1-4)	†	(1-4)	(1-4)
Ashfield	†	†	†	†	†	†	†	†	(1-4)	(1-4)	†	†	†
Ashland	(1-4)	(1-4)	(1-4)	(1-4)	14	(1-4)	7	5	(1-4)	18	(1-4)	*	9
Athol	6	6	10	9	31	19	23	10	10	62	18	23	41
Attleboro	29	61	38	21	149	(1-4)	*	†	16	34	†	†	†
Auburn	8	7	5	6	26	7	13	7	12	39	(1-4)	*	17
Avon	(1-4)	(1-4)	(1-4)	(1-4)	7	(1-4)	5	(1-4)	(1-4)	15	*	(1-4)	9
Ayer	*	9	(1-4)	8	24	(1-4)	8	(1-4)	6	19	10	11	21
Barnstable	43	36	42	36	157	54	46	49	48	197	50	44	94
Barre	8	7	(1-4)	*	23	6	5	6	6	23	*	(1-4)	11
Becket	(1-4)	(1-4)	(1-4)	†	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	†	(1-4)
Bedford	(1-4)	*	7	5	20	8	5	8	7	28	(1-4)	*	9
Belchertown	(1-4)	(1-4)	5	(1-4)	14	10	(1-4)	5	(1-4)	23	(1-4)	(1-4)	7
Bellingham	(1-4)	9	7	(1-4)	23	10	(1-4)	6	(1-4)	20	5	6	11
Belmont	8	8	(1-4)	(1-4)	22	6	(1-4)	(1-4)	(1-4)	12	(1-4)	*	7
Berkley	(1-4)	(1-4)	(1-4)	(1-4)	9	†	(1-4)	(1-4)	(1-4)	8	(1-4)	(1-4)	5
Berlin	†	†	*	(1-4)	7	*	†	(1-4)	†	7	†	(1-4)	(1-4)
Bernardston	†	†	†	†	†	(1-4)	(1-4)	†	†	(1-4)	†	(1-4)	(1-4)
Beverly	18	31	22	24	95	26	24	27	12	89	20	15	35
Billerica	18	19	9	12	58	18	10	11	10	49	14	13	27
Blackstone	(1-4)	7	(1-4)	(1-4)	15	5	(1-4)	(1-4)	5	15	(1-4)	*	8
Blandford	†	†	†	†	†	†	†	†	†	†	†	†	†

All Suspected Opioid-Related Incidents by Town Where Incident Occurred in MA, 2019-Q2 2021

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	2019					2020					2021		
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Total
Bolton	†	(1-4)	(1-4)	(1-4)	5	(1-4)	†	†	(1-4)	(1-4)	(1-4)	†	(1-4)
Boston	630	844	989	805	3268	718	923	898	748	3287	852	924	1776
Bourne	10	18	13	11	52	11	15	18	13	57	18	11	29
Boxborough	(1-4)	†	†	†	(1-4)	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)
Boxford	(1-4)	(1-4)	†	†	(1-4)	†	(1-4)	†	†	(1-4)	†	(1-4)	(1-4)
Boylston	†	(1-4)	†	(1-4)	(1-4)	†	(1-4)	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)
Braintree	16	12	20	21	69	18	17	20	27	82	20	15	35
Brewster	(1-4)	(1-4)	(1-4)	(1-4)	8	(1-4)	(1-4)	(1-4)	(1-4)	12	†	†	†
Bridgewater	9	9	12	8	38	19	9	10	18	56	12	7	19
Brimfield	(1-4)	(1-4)	†	(1-4)	(1-4)	†	5	(1-4)	(1-4)	7	(1-4)	†	(1-4)
Brockton	120	104	166	137	527	144	126	125	111	506	93	108	201
Brookfield	(1-4)	†	(1-4)	(1-4)	5	(1-4)	(1-4)	(1-4)	(1-4)	12	(1-4)	(1-4)	5
Brookline	13	12	8	5	38	9	*	8	(1-4)	28	8	12	20
Buckland	†	†	†	†	†	†	†	†	†	†	†	(1-4)	(1-4)
Burlington	10	9	6	7	32	9	*	10	(1-4)	28	*	(1-4)	11
Cambridge	80	67	111	75	333	63	78	110	76	327	142	124	266
Canton	*	(1-4)	8	8	27	10	(1-4)	*	9	32	7	7	14
Carlisle	†	†	†	†	†	†	†	(1-4)	(1-4)	(1-4)	†	(1-4)	(1-4)
Carver	7	10	(1-4)	*	26	(1-4)	*	9	7	24	9	7	16
Charlemont	†	(1-4)	†	(1-4)	(1-4)	†	*	(1-4)	†	8	†	†	†
Charlton	(1-4)	5	(1-4)	(1-4)	10	(1-4)	6	8	(1-4)	16	(1-4)	(1-4)	(1-4)
Chatham	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	†	†	(1-4)	(1-4)	(1-4)	(1-4)	6
Chelmsford	6	12	9	10	37	18	9	8	13	48	13	8	21
Chelsea	36	53	68	58	215	24	28	43	35	130	52	61	113
Cheshire	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	8	(1-4)	(1-4)	5
Chester	(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)	(1-4)	(1-4)
Chicopee	63	83	78	91	315	82	82	83	76	323	75	104	179
Chilmark	†	†	†	†	†	†	†	(1-4)	†	(1-4)	†	(1-4)	(1-4)
Clarksburg	†	†	†	†	†	†	†	†	†	†	†	†	†
Clinton	6	8	(1-4)	(1-4)	18	10	*	(1-4)	5	22	7	6	13
Cohasset	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)	†	†	†	(1-4)	(1-4)	(1-4)	5
Colrain	†	(1-4)	†	(1-4)	(1-4)	†	†	†	(1-4)	(1-4)	†	†	†
Concord	(1-4)	†	(1-4)	(1-4)	10	(1-4)	(1-4)	(1-4)	(1-4)	9	(1-4)	(1-4)	8
Conway	†	†	†	†	†	†	†	†	†	†	†	†	†

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City/Town	2019					2020					2021		
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Total
Cumington	†	(1-4)	†	(1-4)	(1-4)	†	†	†	(1-4)	(1-4)	†	†	†
Dalton	5	(1-4)	(1-4)	(1-4)	10	†	7	(1-4)	(1-4)	12	5	5	10
Danvers	40	30	34	30	134	21	35	49	40	145	45	39	84
Dartmouth	36	41	30	40	147	20	19	41	27	107	22	43	65
Dedham	13	14	17	19	63	16	15	13	14	58	14	15	29
Deerfield	(1-4)	†	(1-4)	(1-4)	7	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	5
Dennis	11	8	8	14	41	8	11	*	(1-4)	26	(1-4)	*	12
Dighton	(1-4)	†	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	5	(1-4)	†	(1-4)
Douglas	(1-4)	5	†	(1-4)	10	(1-4)	(1-4)	(1-4)	(1-4)	11	(1-4)	(1-4)	5
Dover	†	†	†	†	†	†	†	†	†	†	†	†	†
Dracut	(1-4)	23	13	*	52	14	13	15	7	49	11	10	21
Dudley	18	8	6	10	42	7	8	8	8	31	(1-4)	(1-4)	6
Dunstable	(1-4)	(1-4)	†	†	5	(1-4)	(1-4)	†	(1-4)	5	†	†	†
Duxbury	(1-4)	(1-4)	(1-4)	(1-4)	11	(1-4)	(1-4)	(1-4)	(1-4)	11	(1-4)	*	8
East Bridgewater	9	*	5	(1-4)	23	5	7	(1-4)	(1-4)	17	*	(1-4)	6
East Brookfield	†	(1-4)	†	(1-4)	(1-4)	†	(1-4)	(1-4)	(1-4)	6	(1-4)	(1-4)	(1-4)
East Longmeadow	8	8	7	8	31	(1-4)	(1-4)	10	6	19	10	9	19
Eastham	(1-4)	(1-4)	(1-4)	†	6	(1-4)	(1-4)	(1-4)	(1-4)	8	(1-4)	(1-4)	6
Easthampton	10	(1-4)	*	11	33	11	6	9	5	31	17	10	27
Easton	8	(1-4)	8	(1-4)	22	7	*	7	(1-4)	21	12	11	23
Edgartown	(1-4)	(1-4)	(1-4)	†	5	(1-4)	(1-4)	(1-4)	†	5	†	(1-4)	(1-4)
Egremont	†	†	†	†	†	†	†	†	†	†	†	†	†
Erving	(1-4)	†	(1-4)	†	(1-4)	(1-4)	(1-4)	†	†	(1-4)	†	†	†
Essex	(1-4)	†	(1-4)	(1-4)	8	(1-4)	(1-4)	(1-4)	†	5	†	(1-4)	(1-4)
Everett	38	39	38	38	153	30	30	38	37	135	43	39	82
Fairhaven	6	12	16	8	42	19	17	7	13	56	22	21	43
Fall River	198	260	277	232	967	192	207	247	208	854	182	226	408
Falmouth	41	33	32	32	138	34	45	36	38	153	33	14	47
Fitchburg	70	65	60	52	247	54	68	63	59	244	22	89	111
Florida	†	†	†	†	†	†	†	†	†	†	†	†	†
Foxborough	11	7	10	10	38	15	15	12	14	56	14	12	26
Framingham	43	64	46	44	197	47	24	37	29	137	30	21	51
Franklin	7	11	6	9	33	8	5	13	9	35	14	12	26
Freetown	(1-4)	(1-4)	(1-4)	(1-4)	7	(1-4)	(1-4)	(1-4)	(1-4)	8	(1-4)	(1-4)	5

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City/Town	2019					2020					2021		
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Total
Gardner	19	25	30	31	105	20	22	39	16	97	31	20	51
Georgetown	(1-4)	5	(1-4)	†	10	(1-4)	(1-4)	(1-4)	(1-4)	10	(1-4)	(1-4)	6
Gill	†	†	(1-4)	(1-4)	(1-4)	(1-4)	†	(1-4)	†	(1-4)	†	†	†
Gloucester	15	32	28	19	94	19	19	26	20	84	18	21	39
Goshen	†	(1-4)	†	†	(1-4)	†	†	(1-4)	†	(1-4)	†	(1-4)	(1-4)
Gosnold	†	†	†	†	†	†	†	†	†	†	†	†	†
Grafton	(1-4)	7	(1-4)	5	17	6	9	(1-4)	*	21	8	6	14
Granby	5	(1-4)	(1-4)	†	9	(1-4)	(1-4)	(1-4)	(1-4)	7	(1-4)	(1-4)	6
Granville	(1-4)	†	(1-4)	(1-4)	(1-4)	†	†	(1-4)	†	(1-4)	(1-4)	†	(1-4)
Great Barrington	*	7	(1-4)	5	19	8	*	(1-4)	8	24	5	10	15
Greenfield	27	28	26	14	95	24	35	29	29	117	23	26	49
Groton	(1-4)	(1-4)	†	(1-4)	(1-4)	(1-4)	†	†	(1-4)	5	(1-4)	(1-4)	5
Groveland	†	(1-4)	(1-4)	†	(1-4)	(1-4)	†	(1-4)	(1-4)	5	(1-4)	†	(1-4)
Hadley	(1-4)	(1-4)	(1-4)	(1-4)	8	(1-4)	(1-4)	7	(1-4)	17	(1-4)	*	6
Halifax	(1-4)	(1-4)	5	(1-4)	16	(1-4)	(1-4)	5	6	14	(1-4)	(1-4)	8
Hamilton	(1-4)	†	(1-4)	(1-4)	(1-4)	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)
Hampden	(1-4)	8	7	(1-4)	18	7	(1-4)	(1-4)	(1-4)	17	(1-4)	†	(1-4)
Hancock	†	†	†	†	†	†	†	†	†	†	†	†	†
Hanover	6	(1-4)	(1-4)	(1-4)	18	(1-4)	(1-4)	(1-4)	5	11	(1-4)	(1-4)	(1-4)
Hanson	5	(1-4)	(1-4)	(1-4)	13	(1-4)	(1-4)	†	†	5	(1-4)	(1-4)	(1-4)
Hardwick	(1-4)	(1-4)	(1-4)	(1-4)	6	(1-4)	(1-4)	(1-4)	†	5	(1-4)	(1-4)	(1-4)
Harvard	(1-4)	†	(1-4)	†	5	†	(1-4)	(1-4)	(1-4)	5	(1-4)	†	(1-4)
Harwich	5	(1-4)	5	(1-4)	14	*	6	(1-4)	7	21	6	9	15
Hatfield	†	(1-4)	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)	†	(1-4)	(1-4)	†	(1-4)
Haverhill	59	55	73	67	254	75	53	68	58	254	69	73	142
Hawley	†	†	†	†	†	†	†	†	†	†	†	†	†
Heath	†	†	†	†	†	†	†	†	†	†	†	†	†
Hingham	5	†	(1-4)	(1-4)	9	(1-4)	†	(1-4)	(1-4)	5	(1-4)	(1-4)	5
Hinsdale	†	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)	†	†	(1-4)	†	†	†
Holbrook	(1-4)	9	*	9	27	6	10	5	11	32	10	10	20
Holden	(1-4)	(1-4)	(1-4)	(1-4)	9	6	(1-4)	7	*	19	(1-4)	*	10
Holland	†	†	†	†	†	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)
Holliston	(1-4)	7	(1-4)	(1-4)	14	(1-4)	†	5	(1-4)	9	(1-4)	(1-4)	7
Holyoke	111	132	156	146	545	152	126	166	85	529	102	174	276
Hopedale	(1-4)	7	(1-4)	(1-4)	14	(1-4)	(1-4)	(1-4)	(1-4)	10	(1-4)	(1-4)	(1-4)

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City/Town	2019					2020					2021		
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Total
Hopkinton	(1-4)	(1-4)	(1-4)	(1-4)	9	(1-4)	†	(1-4)	(1-4)	8	(1-4)	(1-4)	8
Hubbardston	(1-4)	†	(1-4)	†	(1-4)	(1-4)	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)
Hudson	8	*	7	(1-4)	24	†	6	7	7	20	14	9	23
Hull	(1-4)	5	(1-4)	9	20	6	10	5	7	28	(1-4)	(1-4)	(1-4)
Huntington	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	†	(1-4)	†	†	†
Ipswich	(1-4)	(1-4)	5	(1-4)	11	(1-4)	(1-4)	(1-4)	(1-4)	11	(1-4)	(1-4)	7
Kingston	(1-4)	9	5	(1-4)	21	(1-4)	(1-4)	9	5	17	*	(1-4)	6
Lakeville	6	10	14	14	44	19	16	29	26	90	35	23	58
Lancaster	(1-4)	(1-4)	7	9	21	(1-4)	5	(1-4)	†	13	(1-4)	*	9
Lanesborough	(1-4)	(1-4)	(1-4)	(1-4)	6	†	5	6	†	11	*	(1-4)	9
Lawrence	129	136	153	111	529	118	114	128	121	481	81	85	166
Lee	(1-4)	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	10	(1-4)	*	8
Leicester	7	7	6	6	26	7	7	*	(1-4)	24	7	5	12
Lenox	(1-4)	(1-4)	5	5	16	(1-4)	6	5	(1-4)	17	(1-4)	(1-4)	7
Leominster	44	50	34	25	153	19	19	30	34	102	37	38	75
Leverett	†	†	†	†	†	†	†	†	(1-4)	(1-4)	†	†	†
Lexington	(1-4)	(1-4)	(1-4)	(1-4)	12	(1-4)	(1-4)	†	(1-4)	5	(1-4)	(1-4)	5
Leyden	†	†	†	†	†	†	†	†	†	†	†	†	†
Lincoln	†	(1-4)	†	†	(1-4)	†	†	(1-4)	†	(1-4)	†	†	†
Littleton	(1-4)	5	(1-4)	†	8	†	†	†	†	†	†	†	†
Longmeadow	(1-4)	(1-4)	(1-4)	(1-4)	8	†	(1-4)	(1-4)	(1-4)	7	(1-4)	(1-4)	6
Lowell	155	167	151	152	625	127	182	172	123	604	161	169	330
Ludlow	10	9	10	12	41	16	25	12	12	65	18	14	32
Lunenburg	(1-4)	(1-4)	5	(1-4)	11	†	(1-4)	(1-4)	†	(1-4)	(1-4)	*	9
Lynn	99	134	157	113	503	126	89	144	102	461	81	142	223
Lynnfield	(1-4)	(1-4)	(1-4)	(1-4)	9	(1-4)	(1-4)	(1-4)	(1-4)	8	†	(1-4)	(1-4)
Malden	26	58	53	42	179	25	31	36	45	137	52	44	96
Manchester	(1-4)	†	†	(1-4)	(1-4)	†	(1-4)	†	†	(1-4)	†	†	†
Mansfield	8	19	8	10	45	(1-4)	7	15	*	32	10	6	16
Marblehead	(1-4)	(1-4)	(1-4)	5	14	(1-4)	(1-4)	9	(1-4)	18	(1-4)	(1-4)	(1-4)
Marion	(1-4)	(1-4)	(1-4)	†	9	(1-4)	†	(1-4)	†	5	†	†	†
Marlborough	17	19	21	17	74	18	19	26	17	80	27	24	51
Marshfield	5	14	8	9	36	12	7	13	11	43	6	16	22
Mashpee	*	11	10	(1-4)	35	*	10	12	(1-4)	33	(1-4)	(1-4)	(1-4)
Mattapoissett	6	(1-4)	(1-4)	5	16	(1-4)	(1-4)	(1-4)	(1-4)	7	5	†	5

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	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Total
Maynard	(1-4)	(1-4)	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	6	5	5	10
Medfield	(1-4)	(1-4)	†	†	5	†	5	†	†	5	†	(1-4)	(1-4)
Medford	24	28	17	18	87	34	29	28	23	114	28	39	67
Medway	8	9	(1-4)	(1-4)	24	*	8	(1-4)	6	21	(1-4)	*	9
Melrose	(1-4)	7	9	(1-4)	23	9	*	9	(1-4)	29	6	6	12
Mendon	(1-4)	(1-4)	(1-4)	(1-4)	9	†	(1-4)	†	(1-4)	6	(1-4)	(1-4)	7
Merrimac	(1-4)	(1-4)	(1-4)	(1-4)	10	†	(1-4)	(1-4)	†	(1-4)	(1-4)	†	(1-4)
Methuen	42	47	37	27	153	32	35	33	26	126	22	22	44
Middleborough	†	(1-4)	(1-4)	(1-4)	5	†	(1-4)	(1-4)	(1-4)	5	(1-4)	*	9
Middlefield	†	†	†	†	†	†	†	†	†	†	(1-4)	†	(1-4)
Middleton	(1-4)	10	(1-4)	8	24	5	(1-4)	(1-4)	(1-4)	17	6	7	13
Milford	24	18	22	8	72	8	*	13	(1-4)	31	7	23	30
Millbury	9	8	7	12	36	12	14	15	9	50	5	10	15
Millis	(1-4)	(1-4)	(1-4)	(1-4)	11	(1-4)	(1-4)	5	(1-4)	13	(1-4)	*	6
Millville	†	(1-4)	†	†	(1-4)	(1-4)	(1-4)	(1-4)	†	(1-4)	(1-4)	(1-4)	5
Milton	(1-4)	(1-4)	11	6	22	9	(1-4)	7	*	25	(1-4)	(1-4)	8
Monroe	†	†	†	†	†	†	†	†	†	†	†	†	†
Monson	(1-4)	(1-4)	6	(1-4)	15	(1-4)	(1-4)	7	(1-4)	15	(1-4)	(1-4)	(1-4)
Montague	(1-4)	*	12	9	30	7	12	9	5	33	10	10	20
Monterey	†	†	†	†	†	†	†	(1-4)	†	(1-4)	†	†	†
Montgomery	†	†	†	†	†	†	†	†	†	†	†	†	†
Mount Washington	†	†	†	†	†	†	†	†	†	†	†	†	†
Nahant	†	(1-4)	†	†	(1-4)	†	(1-4)	(1-4)	†	(1-4)	†	(1-4)	(1-4)
Nantucket	†	†	(1-4)	†	(1-4)	(1-4)	†	(1-4)	(1-4)	6	*	(1-4)	8
Natick	12	12	15	5	44	6	11	13	9	39	10	7	17
Needham	6	(1-4)	(1-4)	6	16	*	(1-4)	5	8	21	†	(1-4)	(1-4)
New Ashford	†	†	†	†	†	†	†	†	†	†	†	†	†
New Bedford	194	154	100	135	583	166	200	250	177	793	192	237	429
New Braintree	†	(1-4)	(1-4)	(1-4)	(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)	†	†	†
New Salem	†	†	†	(1-4)	(1-4)	(1-4)	†	†	†	(1-4)	†	†	†
Newbury	(1-4)	(1-4)	†	(1-4)	6	(1-4)	(1-4)	†	(1-4)	5	†	(1-4)	(1-4)
Newburyport	(1-4)	(1-4)	(1-4)	5	16	(1-4)	(1-4)	†	(1-4)	12	(1-4)	(1-4)	7

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	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Total
Newton	11	19	9	19	58	20	12	15	13	60	11	13	24
Norfolk	(1-4)	(1-4)	(1-4)	†	8	(1-4)	(1-4)	6	(1-4)	12	†	(1-4)	(1-4)
North Adams	27	26	12	23	88	11	14	19	22	66	20	26	46
North Andover	12	11	13	5	41	6	5	13	10	34	10	6	16
North Attleboro	9	18	22	22	71	16	26	23	29	94	14	20	34
North Brookfield	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	†	9	*	(1-4)	6
North Reading	(1-4)	5	(1-4)	(1-4)	12	(1-4)	7	6	*	21	*	(1-4)	9
Northampton	34	22	23	25	104	22	20	40	22	104	33	41	74
Northborough	7	(1-4)	(1-4)	5	18	(1-4)	(1-4)	13	5	25	6	12	18
Northbridge	*	10	8	(1-4)	28	7	12	6	9	34	9	9	18
Northfield	†	†	†	(1-4)	(1-4)	(1-4)	†	(1-4)	†	(1-4)	†	†	†
Norton	(1-4)	8	(1-4)	6	19	6	10	12	10	38	9	6	15
Norwell	5	5	(1-4)	(1-4)	13	(1-4)	(1-4)	(1-4)	(1-4)	6	(1-4)	(1-4)	6
Norwood	9	7	9	11	36	12	17	17	14	60	13	13	26
Oak Bluffs	(1-4)	(1-4)	(1-4)	†	7	(1-4)	†	(1-4)	(1-4)	7	†	(1-4)	(1-4)
Oakham	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)
Orange	9	8	(1-4)	*	27	*	12	16	(1-4)	36	(1-4)	*	17
Orleans	(1-4)	(1-4)	(1-4)	(1-4)	6	(1-4)	(1-4)	(1-4)	(1-4)	14	(1-4)	(1-4)	(1-4)
Otis	†	†	†	(1-4)	(1-4)	†	(1-4)	†	†	(1-4)	†	†	†
Oxford	9	9	9	11	38	7	(1-4)	8	*	24	(1-4)	*	8
Palmer	10	10	9	16	45	6	17	22	8	53	10	6	16
Paxton	(1-4)	(1-4)	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)	†	7	(1-4)	(1-4)	(1-4)
Peabody	31	32	34	30	127	25	17	20	24	86	32	36	68
Pelham	†	†	†	†	†	†	†	†	†	†	†	†	†
Pembroke	5	8	9	7	29	7	14	11	11	43	(1-4)	(1-4)	5
Pepperell	(1-4)	(1-4)	†	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	9	(1-4)	(1-4)	(1-4)
Peru	†	†	†	†	†	†	†	†	†	†	†	†	†
Petersham	(1-4)	†	†	†	(1-4)	†	†	†	†	†	†	†	†
Phillipston	†	†	(1-4)	†	(1-4)	†	(1-4)	†	†	(1-4)	(1-4)	†	(1-4)
Pittsfield	56	46	94	59	255	64	116	114	90	384	66	68	134
Plainfield	(1-4)	(1-4)	†	†	(1-4)	(1-4)	†	†	(1-4)	(1-4)	†	†	†
Plainville	(1-4)	9	(1-4)	(1-4)	21	5	5	(1-4)	(1-4)	16	(1-4)	*	10
Plymouth	43	29	36	39	147	44	49	58	38	189	39	43	82
Plympton	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	†	5	†	†	†

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	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Total
Princeton	†	(1-4)	†	(1-4)	(1-4)	†	(1-4)	†	(1-4)	(1-4)	†	†	†
Provincetown	(1-4)	11	8	(1-4)	26	(1-4)	(1-4)	(1-4)	(1-4)	12	(1-4)	(1-4)	(1-4)
Quincy	75	70	116	78	339	66	98	99	87	350	86	90	176
Randolph	16	20	15	11	62	12	17	27	11	67	16	20	36
Raynham	8	13	13	12	46	9	8	13	18	48	11	15	26
Reading	(1-4)	9	5	(1-4)	22	(1-4)	(1-4)	(1-4)	6	15	†	†	†
Rehoboth	(1-4)	†	(1-4)	5	7	(1-4)	6	6	(1-4)	20	(1-4)	(1-4)	7
Revere	41	57	53	28	179	35	35	57	54	181	55	58	113
Richmond	†	†	(1-4)	†	(1-4)	†	†	(1-4)	(1-4)	(1-4)	†	†	†
Rochester	†	5	†	†	5	(1-4)	(1-4)	(1-4)	(1-4)	9	†	(1-4)	(1-4)
Rockland	10	9	12	20	51	12	6	9	19	46	10	9	19
Rockport	(1-4)	†	(1-4)	†	(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)	†	5	(1-4)	(1-4)	(1-4)
Royalston	†	†	†	†	†	†	(1-4)	†	†	(1-4)	†	†	†
Russell	(1-4)	(1-4)	(1-4)	(1-4)	6	†	(1-4)	†	(1-4)	(1-4)	†	(1-4)	(1-4)
Rutland	(1-4)	(1-4)	(1-4)	(1-4)	8	(1-4)	(1-4)	(1-4)	†	6	(1-4)	†	(1-4)
Salem	33	29	40	29	131	25	32	41	33	131	26	40	66
Salisbury	6	8	6	7	27	(1-4)	8	17	*	35	10	9	19
Sandisfield	†	†	†	†	†	†	†	†	(1-4)	(1-4)	†	†	†
Sandwich	7	7	*	(1-4)	24	10	(1-4)	†	*	23	(1-4)	*	16
Saugus	33	30	22	29	114	26	19	27	26	98	38	35	73
Savoy	†	†	†	(1-4)	(1-4)	†	†	†	†	†	†	†	†
Scituate	(1-4)	(1-4)	(1-4)	7	16	(1-4)	(1-4)	(1-4)	†	7	(1-4)	(1-4)	(1-4)
Seekonk	5	5	5	9	24	(1-4)	11	13	*	36	10	10	20
Sharon	(1-4)	(1-4)	†	(1-4)	5	(1-4)	(1-4)	†	(1-4)	7	(1-4)	(1-4)	7
Sheffield	(1-4)	(1-4)	(1-4)	(1-4)	5	†	(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)	†	†	†	†	†	†	†	†
Shirley	(1-4)	(1-4)	7	(1-4)	19	6	(1-4)	(1-4)	(1-4)	12	9	5	14
Shrewsbury	17	15	26	24	82	10	16	10	9	45	8	5	13
Shutesbury	†	†	†	†	†	†	(1-4)	†	†	(1-4)	†	†	†
Somerset	(1-4)	10	11	(1-4)	27	10	8	15	9	42	10	11	21
Somerville	25	33	42	35	135	24	45	31	46	146	38	46	84
South Hadley	10	5	10	6	31	11	13	*	(1-4)	38	8	6	14

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	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Total
Southampton	(1-4)	(1-4)	(1-4)	(1-4)	6	(1-4)	†	†	(1-4)	(1-4)	†	(1-4)	(1-4)
Southborough	(1-4)	†	(1-4)	(1-4)	5	(1-4)	(1-4)	6	(1-4)	11	(1-4)	(1-4)	(1-4)
Southbridge	32	32	28	21	113	14	36	36	30	116	22	29	51
Southwick	(1-4)	6	5	(1-4)	17	(1-4)	6	(1-4)	(1-4)	13	(1-4)	(1-4)	(1-4)
Spencer	9	9	13	15	46	18	22	16	10	66	9	8	17
Springfield	229	292	335	283	1139	243	365	330	209	1147	265	308	573
Sterling	(1-4)	5	(1-4)	6	16	(1-4)	5	(1-4)	(1-4)	11	(1-4)	(1-4)	6
Stockbridge	(1-4)	†	†	(1-4)	(1-4)	†	(1-4)	(1-4)	†	(1-4)	(1-4)	†	(1-4)
Stoneham	*	13	10	(1-4)	32	8	9	20	12	49	15	9	24
Stoughton	22	22	20	29	93	18	20	19	19	76	14	22	36
Stow	†	†	(1-4)	†	(1-4)	†	†	(1-4)	†	(1-4)	†	(1-4)	(1-4)
Sturbridge	6	(1-4)	(1-4)	5	18	(1-4)	11	*	7	27	7	12	19
Sudbury	†	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	6	†	†	†
Sunderland	†	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	9	†	5	5
Sutton	(1-4)	(1-4)	(1-4)	(1-4)	10	(1-4)	9	5	(1-4)	20	(1-4)	(1-4)	8
Swampscott	(1-4)	5	†	(1-4)	11	(1-4)	5	(1-4)	5	15	(1-4)	(1-4)	8
Swansea	13	(1-4)	13	(1-4)	34	11	13	9	14	47	6	6	12
Taunton	47	40	53	45	185	51	48	55	53	207	34	38	72
Templeton	*	8	(1-4)	7	24	9	(1-4)	(1-4)	(1-4)	15	*	(1-4)	11
Tewksbury	18	25	20	19	82	17	23	24	20	84	22	19	41
Tisbury	(1-4)	(1-4)	†	(1-4)	6	†	(1-4)	(1-4)	†	5	(1-4)	(1-4)	5
Tolland	†	†	†	†	†	†	†	†	†	†	†	†	†
Topsfield	(1-4)	(1-4)	(1-4)	†	5	(1-4)	(1-4)	(1-4)	(1-4)	5	(1-4)	†	(1-4)
Townsend	(1-4)	(1-4)	(1-4)	5	10	(1-4)	(1-4)	(1-4)	(1-4)	11	(1-4)	(1-4)	(1-4)
Truro	†	†	(1-4)	†	(1-4)	(1-4)	†	(1-4)	(1-4)	(1-4)	†	5	5
Tyngsborough	(1-4)	(1-4)	(1-4)	(1-4)	12	†	(1-4)	(1-4)	(1-4)	11	(1-4)	(1-4)	7
Tyringham	†	†	(1-4)	†	(1-4)	†	†	†	†	†	†	†	†
Upton	(1-4)	6	*	†	14	(1-4)	(1-4)	(1-4)	(1-4)	5	(1-4)	(1-4)	6
Uxbridge	5	(1-4)	7	(1-4)	18	7	(1-4)	(1-4)	(1-4)	15	(1-4)	*	10
Wakefield	20	11	14	13	58	5	10	20	16	51	14	11	25
Wales	†	(1-4)	†	†	(1-4)	†	†	†	(1-4)	(1-4)	(1-4)	†	(1-4)
Walpole	6	10	6	8	30	7	6	8	7	28	*	(1-4)	16
Waltham	21	31	36	34	122	16	21	32	25	94	36	42	78
Ware	7	9	10	7	33	11	9	10	8	38	10	8	18
Wareham	30	31	25	32	118	33	27	46	37	143	21	27	48

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City/Town	2019					2020					2021		
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Total
Warren	*	(1-4)	6	10	26	6	(1-4)	(1-4)	†	9	9	†	9
Warwick	†	†	†	(1-4)	(1-4)	†	†	(1-4)	†	(1-4)	†	†	†
Washington	†	†	†	†	†	†	†	†	†	†	†	†	†
Watertown	9	12	11	5	37	10	9	17	10	46	12	9	21
Wayland	(1-4)	†	(1-4)	†	(1-4)	†	(1-4)	†	†	(1-4)	(1-4)	†	(1-4)
Webster	37	39	26	39	141	22	27	24	29	102	26	25	51
Wellesley	(1-4)	(1-4)	(1-4)	†	5	(1-4)	†	(1-4)	(1-4)	7	*	(1-4)	10
Wellfleet	†	*	(1-4)	†	7	†	(1-4)	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)
Wendell	†	(1-4)	†	†	(1-4)	†	†	†	†	†	†	†	†
Wenham	†	†	(1-4)	(1-4)	(1-4)	†	(1-4)	†	†	(1-4)	†	(1-4)	(1-4)
West Boylston	8	5	(1-4)	(1-4)	18	*	(1-4)	5	6	19	(1-4)	*	9
West Bridgewater	(1-4)	5	(1-4)	(1-4)	13	(1-4)	(1-4)	(1-4)	(1-4)	11	(1-4)	*	7
West Brookfield	(1-4)	(1-4)	†	6	10	(1-4)	(1-4)	(1-4)	(1-4)	8	(1-4)	(1-4)	5
West Newbury	†	†	†	†	†	†	†	†	†	†	†	†	†
West Springfield	30	30	33	42	135	27	46	60	34	167	39	44	83
West Stockbridge	†	†	†	†	†	(1-4)	†	(1-4)	†	(1-4)	†	†	†
West Tisbury	(1-4)	†	†	†	(1-4)	†	†	†	†	†	†	†	†
Westborough	14	13	15	20	62	24	21	22	24	91	17	13	30
Westfield	21	24	31	29	105	27	35	33	20	115	28	22	50
Westford	(1-4)	(1-4)	(1-4)	†	10	(1-4)	†	(1-4)	(1-4)	6	6	8	14
Westhampton	†	†	†	†	†	†	(1-4)	†	†	(1-4)	†	†	†
Westminster	*	9	(1-4)	9	28	12	11	7	8	38	10	10	20
Weston	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	†	(1-4)	5	†	(1-4)	(1-4)
Westport	(1-4)	8	*	9	26	7	6	13	8	34	(1-4)	*	9
Westwood	(1-4)	(1-4)	†	(1-4)	8	(1-4)	†	(1-4)	(1-4)	7	(1-4)	(1-4)	6
Weymouth	41	44	47	50	182	28	58	52	49	187	31	30	61
Whately	(1-4)	(1-4)	(1-4)	(1-4)	9	(1-4)	†	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)	(1-4)
Whitman	11	8	10	7	36	7	8	6	10	31	5	10	15
Wilbraham	12	(1-4)	8	*	30	*	9	(1-4)	12	30	*	(1-4)	9
Williamsburg	(1-4)	†	(1-4)	(1-4)	6	(1-4)	(1-4)	(1-4)	(1-4)	8	†	†	†
Williamstown	(1-4)	(1-4)	(1-4)	†	7	(1-4)	(1-4)	(1-4)	(1-4)	7	(1-4)	(1-4)	(1-4)
Wilmington	16	10	16	7	49	8	(1-4)	(1-4)	6	19	10	16	26
Winchendon	(1-4)	13	9	*	31	6	10	9	12	37	11	5	16

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City/Town	<u>2019</u>					<u>2020</u>					<u>2021</u>		
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Total
Winchester	(1-4)	8	5	(1-4)	19	(1-4)	(1-4)	(1-4)	(1-4)	10	†	6	6
Windsor	†	(1-4)	†	†	(1-4)	†	†	†	†	†	†	†	†
Winthrop	*	8	(1-4)	13	31	15	10	*	(1-4)	33	9	9	18
Woburn	23	22	29	37	111	20	16	23	24	83	24	31	55
Worcester	406	425	412	357	1600	338	299	394	257	1288	343	281	624
Worthington	†	†	†	(1-4)	(1-4)	†	†	†	(1-4)	(1-4)	(1-4)	†	(1-4)
Wrentham	(1-4)	*	11	7	28	6	5	(1-4)	(1-4)	18	(1-4)	(1-4)	7
Yarmouth	19	21	22	13	75	16	21	23	15	75	18	31	49
Unknown	(1-4)	(1-4)	(1-4)	(1-4)	13	†	†	(1-4)	†	(1-4)	†	(1-4)	(1-4)
Grand Total	4905	5568	5785	5125	21383	4837	5439	5977	4814	21067	5140	5604	10744

Technical Notes

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Source

- Bureau of Health Care Safety and Quality, MDPHC