A NOTE ABOUT TODAY'S DASHBOARD

Beginning today, the Massachusetts Department of Public Health (DPH) is posting a revised COVID-19 daily dashboard. This revised dashboard will continue to provide critical information for the public's understanding of the current and cumulative impact of the pandemic in Massachusetts, reflecting the metrics that are most useful to track on a daily basis.

The Commonwealth already produces one of the most comprehensive public data reports on COVID-19 in the nation and includes detailed municipal-level, college and university, contact tracing, long-term care facilities, and, most recently, cluster data.

This revised dashboard will help the public more easily access the Commonwealth's growing amount of COVID-19 information as the Departments prepares to launch an interactive digital dashboard early next year.

A key new data point presented in the dashboard is "Case Growth by Age Group," which will help contextualize the impact of COVID on different age ranges over time. The Commonwealth is currently seeing a larger proportion of cases in younger people compared to earlier in the pandemic.

The dashboard now includes the average turnaround time for COVID-19 test results to be reported to the Department, so contact tracing can begin. The dashboard also now reports the impact of university testing to greater clarify how this testing impacts the Commonwealth's overall positivity rate and case numbers.

Today's updated dashboard provides a more granular look into the daily positivity rate. Since August, the Commonwealth's universities have been conducting at least 25,000 daily tests of students, faculty, and staff. While this testing has helped to control the spread of COVID on college campuses, it has also impacted the overall positivity rate. Starting today, the dashboard will include three positivity rates: the overall state positivity rate, the positivity rate on college campuses, and the statewide positivity rate excluding on-campus testing.

Many existing data points, including testing, deaths, and hospitalization rates, have been reorganized to report on current numbers, trends over the past six weeks, and trends going back to March.

Massachusetts Department of Public Health COVID-19 Dashboard-
Dashboard of Public Health Indicators

Monday, November 02, 2020

Total Cases By Age Group
from 10/17/20-10/30/20**

Testing and Cases

Newly Reported Confirmed Cases	Total New Molecular Tests Reported	7-Day Average Positivity	Estimated Active Cases
725	51,419	1.78%	16,561

Hospitalization

Total Confirmed COVID Patients in Hospital	Total Confirmed COVID Patients in ICU	Average Age of Cases that were Hospitalized*
469	96	67

Deaths / Turnaround Time

Newly Reported Deaths among Confirmed	Average Age of Deaths*	14-Day Average Turnaround (from Test Sample to Report to DPH)*
9	81	2.1

| Age Group	Cases
0-19 years	2,701
20-29 years	2,566
30-39 years	2,493
40-49 years	2,057
50-59 years	1,853
60-69 years	1,293
70-79 years	606
80+ years	403

Note: For definitions, please see the Glossary at the end of this document in "Definitions and Disclaimers". Average age of hospitalized cases and deaths are calculated for a two week period covering 10/11/20 to 10/24/20. Please see the most current weekly dashboard for more details https://www.mass.gov/info-details/covid-19-response-reporting
*Last updated Wednesday, October 28th; **Last updated Monday, November 2nd

Percent of Change Since Lowest Observed Value (LOV)

7-Day Average of New Confirmed Cases

1,000 — 591, 577, 593, 615, 632, 633, 629, 614, 639, 655, 680, 698, 708, 773, 811, 836, 898, 950, 984, 1,005, 1,067, 1,103, 1,146, 1,119, 1,047, 997, 944
500 — 581, 574, 607

October — 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 Nov

502%

LOV = **157**

7-Day Weighted Average of Positive Molecular Test Rate*

2.0% / 1.5% / 1.0% — 1.1%, 1.2%, 1.1%, 1.1%, 1.1%, 1.2%, 1.2%, 1.2%, 1.2%, 1.3%, 1.3%, 1.3%, 1.3%, 1.4%, 1.4%, 1.4%, 1.5%, 1.5%, 1.6%, 1.7%, 1.8%, 1.8%, 1.9%, 1.9%, 2.0%, 1.9%, 1.9%, 1.8%, 1.8%

October — 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 Nov

130%

LOV = **0.8%**

7-Day Average of Number of COVID-19 Patients in Hospital**

400 / 300 — 255, 259, 264, 269, 276, 285, 295, 303, 312, 317, 320, 322, 323, 319, 318, 319, 322, 327, 332, 339, 347, 355, 361, 369, 375, 381, 387, 397, 407, 420

October — 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 Nov

171%

LOV = **155**

7-Day Average of COVID-19 Deaths***

20 / 15 — 16, 15, 15, 15, 14, 13, 13, 13, 13, 13, 13, 15, 17, 18, 18, 19, 19, 18, 17, 18, 17, 17, 18, 20, 20, 20, 20, 20, 20, 17

October — 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

59%

LOV = **11**

*Calculated from total molecular tests for all of MA; **Includes only confirmed cases of COVID-19; ***Includes deaths in only confirmed cases of COVID-19

Note: LOV = Lowest observed value, i.e. the lowest value the public health indicator has been since tracking started on April 15, 2020. Due to data lags, counts for most recent dates are likely incomplete, and thus measures are subject to change.

Contents

Testing and Cases

Hospitalization

Deaths

Demographics, Activities, and Key Settings

Definitions and Disclaimers

Testing by Date - Molecular (Percent Positive)

7-Day Weighted Average of Percent of Tests By Molecular Method that are Positive by Test Date

● MA Statewide (metric on p.2) ● MA Higher Education Only ● MA with Higher Education Tests Removed
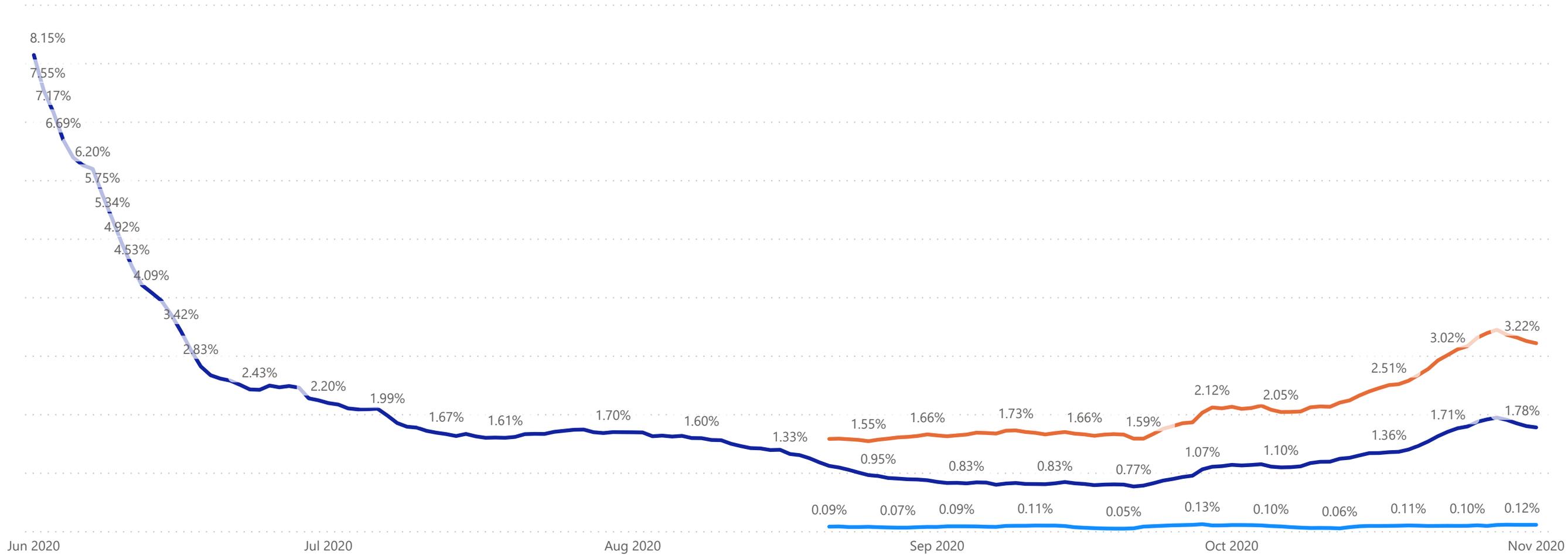
Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; Tables and Figures created by the Office of Population Health.
Note: all data are current as of 8:00am on the date at the top of the page. Due to lag in reporting by laboratories, counts for most recent dates are likely to be incomplete. This includes individuals who have had more than one molecular test.

Daily Confirmed Cases (Since March)

Confirmed COVID-19 Cases To Date by Date Individual Tested

● Confirmed Cases by Date ● 7-Day Average Confirmed Case Count
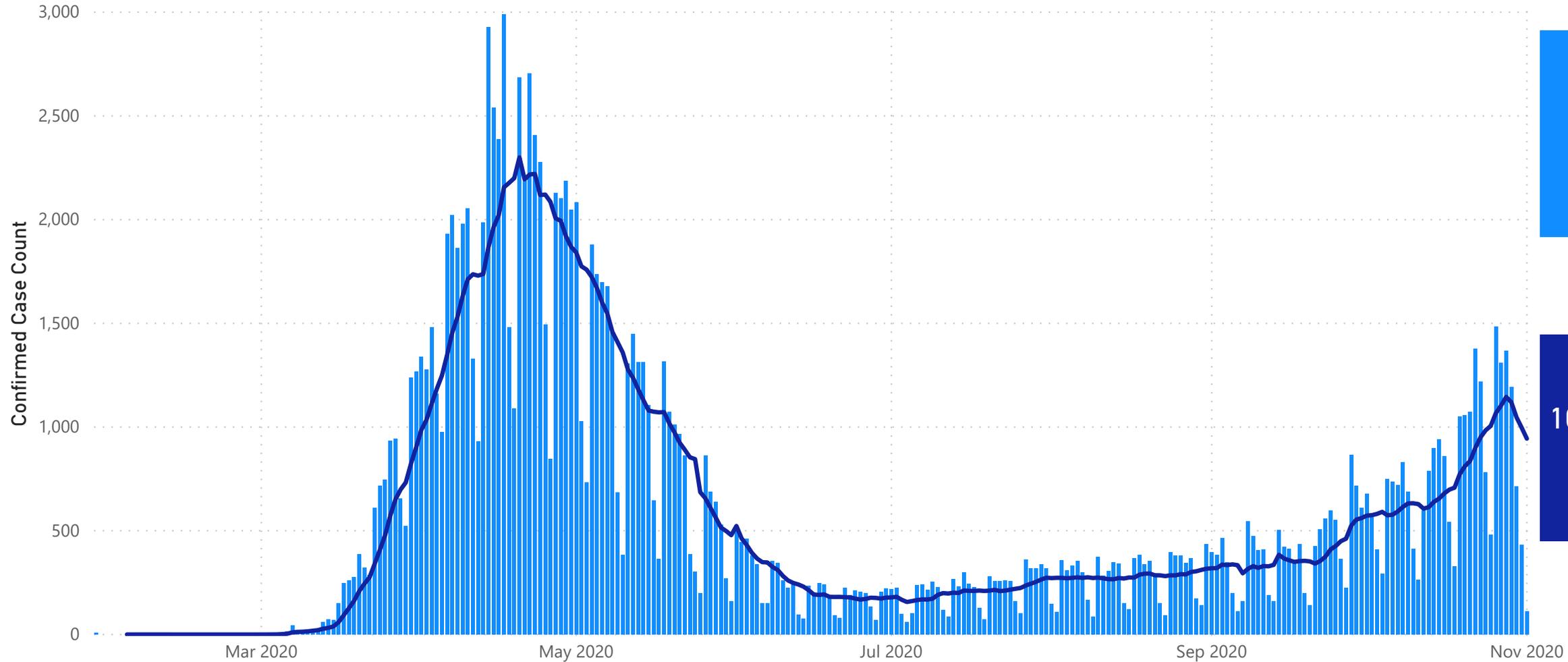
Total Confirmed Cases
156,385

Average Daily Incidence Rate Per 100,000 (last 14 days)*
11.8

Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; State Population Estimate 2019: Small Area Population Estimates 2011-2020, version 2019, Massachusetts Department of Public Health, Bureau of Environmental Health; Tables and Figures created by the Office of Population Health.

Note: all data are current as of 8:00am on the date at the top of the page. Due to lag in reporting by laboratories, counts for most recent dates are likely to be incomplete.

*Last updated Wednesday, October 28th; Covers 10/11/20 to 10/24/20

Massachusetts Department of Public Health COVID-19 Dashboard-

Daily Confirmed Cases (Past 6 Weeks)

Confirmed COVID-19 Cases by Date Individual Tested
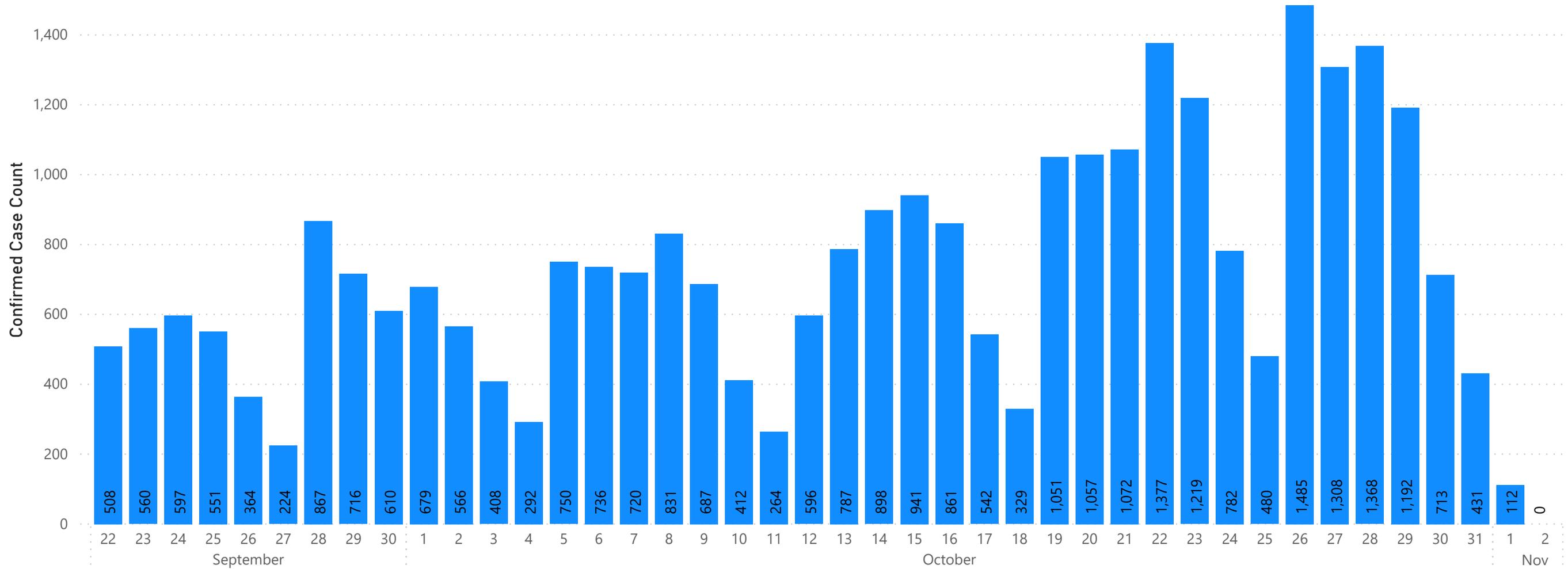

Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; Tables and Figures created by the Office of Population Health.
Note: all data are current as of 8:00am on the date at the top of the page. Due to lag in reporting by laboratories, counts for most recent dates are likely to be incomplete.

Massachusetts Department of Public Health COVID-19 Dashboard-

Positive Tests by Age Group

Monday, November 02, 2020

Percent Positive by Week and Age Group

Age Group ● 0-19 years ● 20-29 years ● 30-39 years ● 40-49 years ● 50-59 years ● 60-69 years ● 70-79 years ● 80+ years ● Unknown
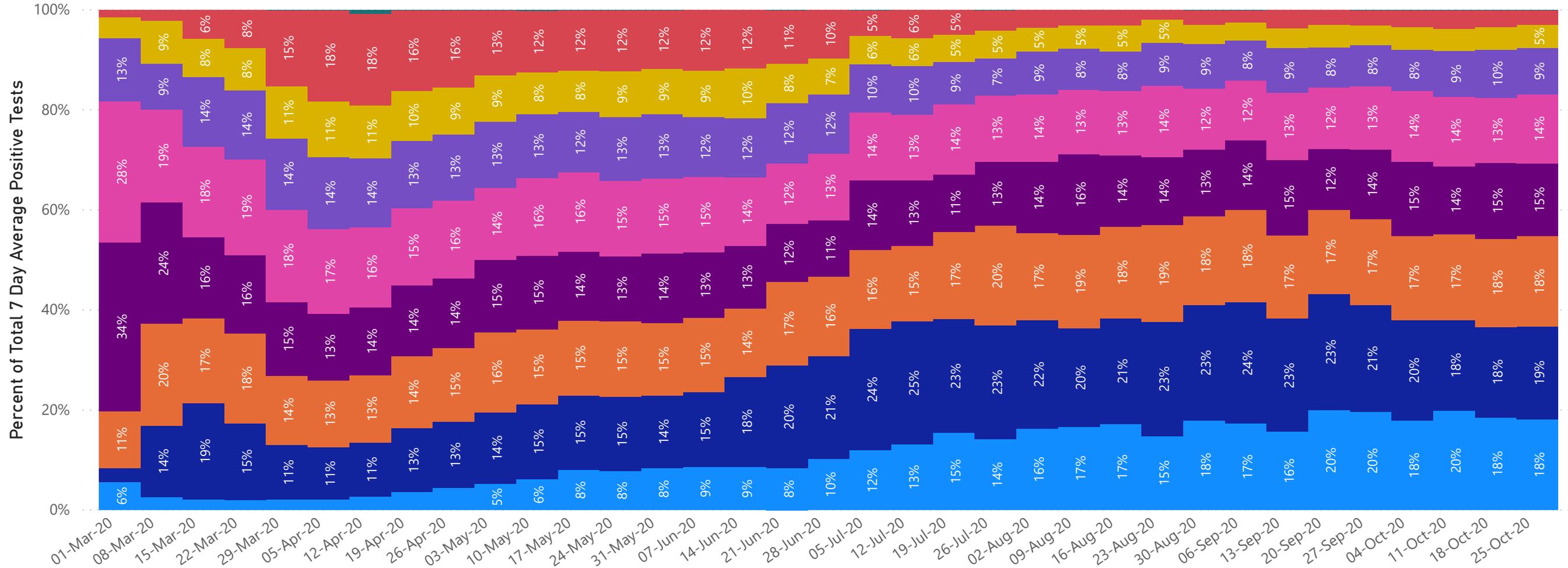
Testing by Date - Molecular (Total Tests Conducted Since March)

Total Molecular Tests by Date

● All Molecular Tests   ● 7-Day Average of All Molecular Tests
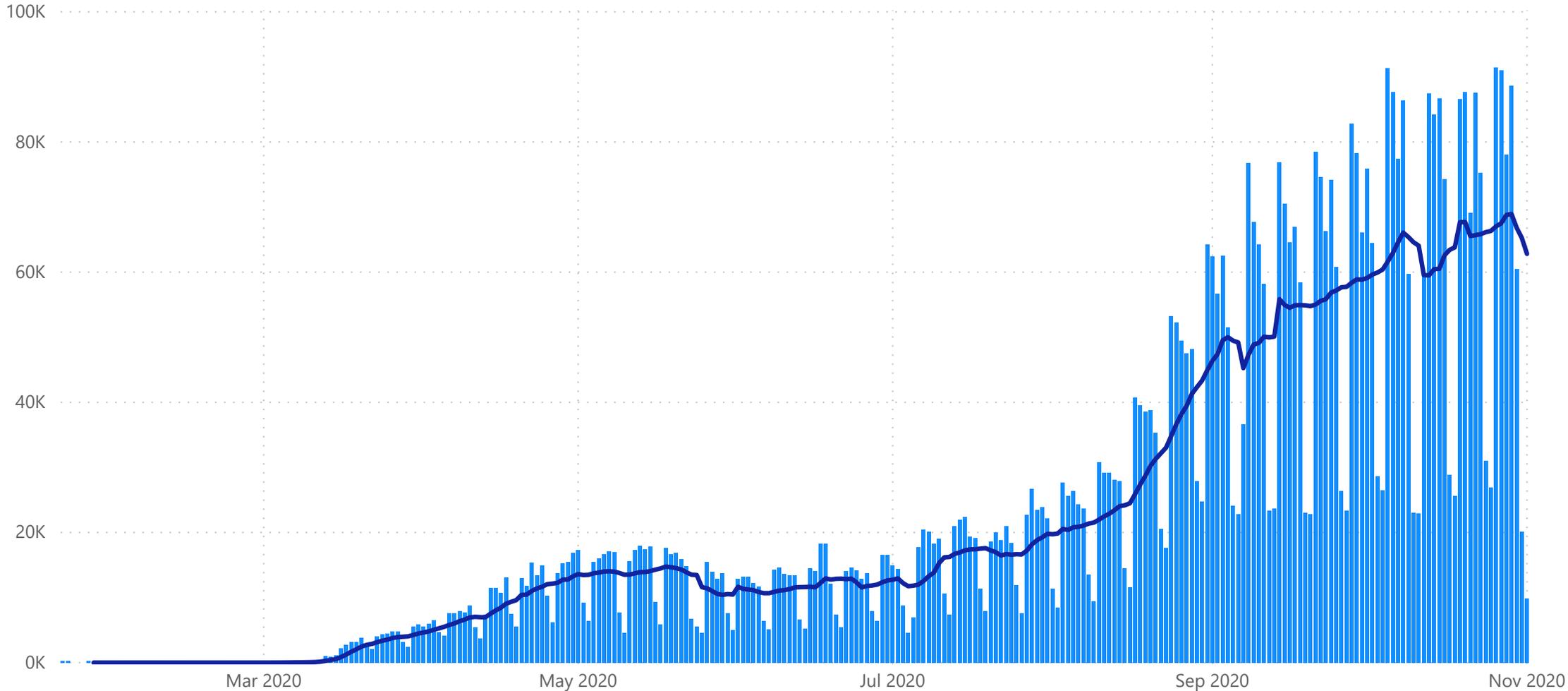
Total Molecular Tests Administered

6,217,043

**7-Day Average Test Rate per 100,000 Residents**

902

Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; State Population Estimate 2019: Small Area Population Estimates 2011-2020, version 2019, Massachusetts Department of Public Health, Bureau of Environmental Health; Tables and Figures created by the Office of Population Health.

Note: all data are current as of 8:00am on the date at the top of the page. Due to lag in reporting by laboratories, counts for most recent dates are likely to be incomplete. This includes individuals who have had more than one molecular test.

Massachusetts Department of Public Health COVID-19 Dashboard- Monday, November 02, 2020

Testing by Date - Molecular (Total Tests Conducted Past 6 Weeks)

Total Number of Molecular Tests Performed by Date

● First Molecular Test Per Individual ● Molecular Tests that are Repeated in Individuals
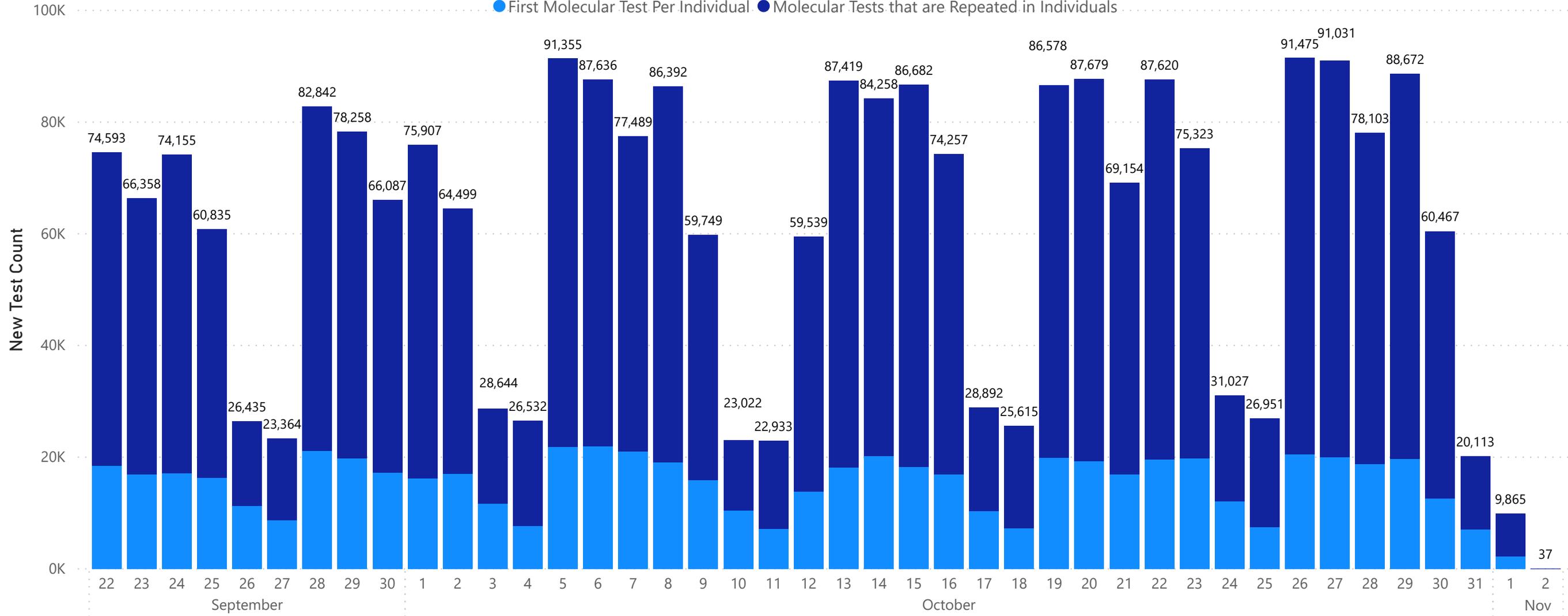
Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; Tables and Figures created by the Office of Population Health.

Note: all data are current as of 8:00am on the date at the top of the page. Due to lag in reporting by laboratories, counts for most recent dates are likely to be incomplete. This includes individuals who have had more than one molecular test.

10

Massachusetts Department of Public Health COVID-19 Dashboard-

Probable Case Information

Newly Reported Probable Cases	Total Probable Cases
117	4,164

Newly Reported Deaths Among Probable	Total Deaths Among Probable Cases
1	226

Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences and the Registry of Vital Records and Statistics; Tables and Figures created by the Office of Population Health Note: all data are cumulative and current as of 8:00am on the date at the top of the page. For the COVID-19 probable case definition, please see the Glossary at the end of this document in "Definitions and Disclaimers".

Massachusetts Department of Public Health COVID-19 Dashboard-

Monday, November 02, 2020

Testing by Date - Antigens

Number of Individuals Tested by Antigens by Test Date

New Individuals Tested by Antigen Tests	Total Individuals Tested by Antigen Tests
2,565	**190,746**

● Individuals with Negative Antigen Tests   ● Individuals with Positive Antigen Tests
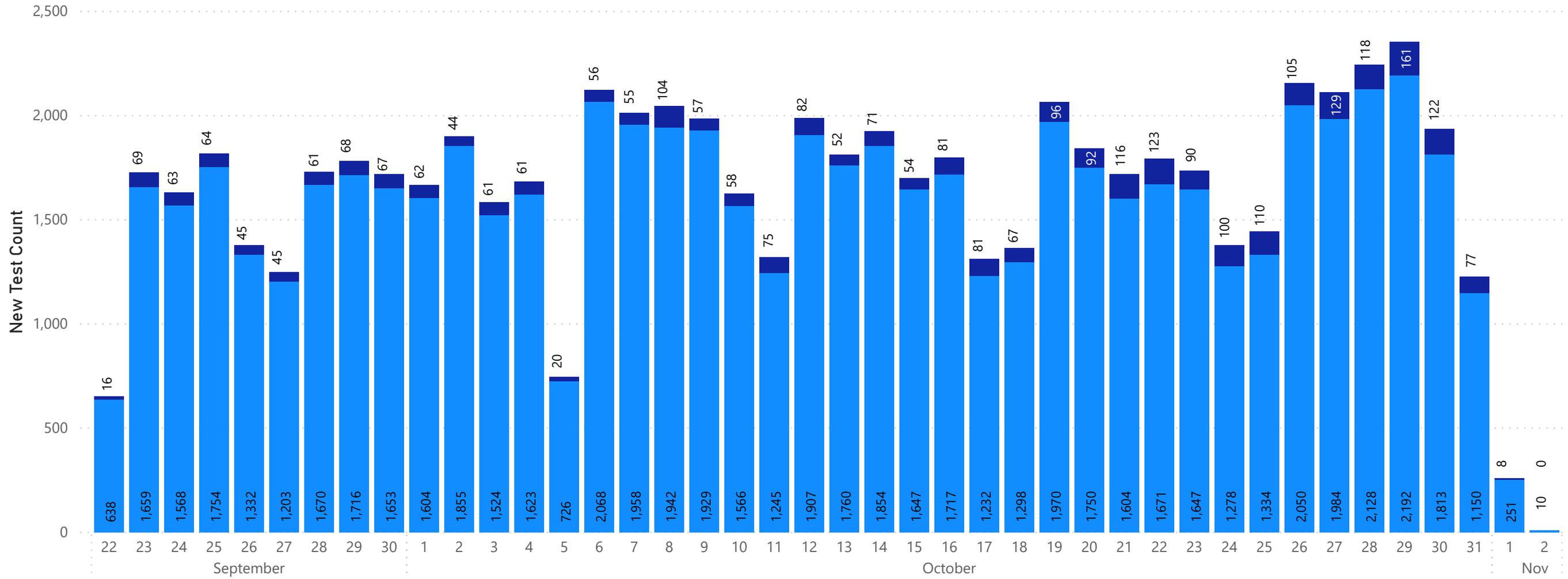
Y-axis: New Test Count

Date	Negative	Positive
Sep 22	638	16
Sep 23	1,659	69
Sep 24	1,568	63
Sep 25	1,754	64
Sep 26	1,332	45
Sep 27	1,203	45
Sep 28	1,670	61
Sep 29	1,716	68
Sep 30	1,653	67
Oct 1	1,604	62
Oct 2	1,855	44
Oct 3	1,524	61
Oct 4	1,623	61
Oct 5	726	20
Oct 6	2,068	56
Oct 7	1,958	55
Oct 8	1,942	104
Oct 9	1,929	57
Oct 10	1,566	58
Oct 11	1,245	75
Oct 12	1,907	82
Oct 13	1,760	52
Oct 14	1,854	71
Oct 15	1,647	54
Oct 16	1,717	81
Oct 17	1,232	81
Oct 18	1,298	67
Oct 19	1,970	96
Oct 20	1,750	92
Oct 21	1,604	116
Oct 22	1,671	123
Oct 23	1,647	90
Oct 24	1,278	100
Oct 25	1,334	110
Oct 26	2,050	105
Oct 27	1,984	129
Oct 28	2,128	118
Oct 29	2,192	161
Oct 30	1,813	122
Oct 31	1,150	77
Nov 1	251	8
Nov 2	10	0

Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; Tables and Figures created by the Office of Population Health.

Note: all data are current as of 8:00am on the date at the top of the page. Due to lag in reporting by laboratories, counts for most recent dates are likely to be incomplete.

Contents

Testing and Cases

Hospitalization

Deaths

Demographics, Activities, and Key Settings

Definitions and Disclaimers

Massachusetts Department of Public Health COVID-19 Dashboard-
Daily Confirmed Hospitalizations

Monday, November 02, 2020

Total Confirmed COVID Patients in Hospital

● Confirmed COVID Hospitalizations ● 7-Day Average of Confirmed COVID Hospitalizations
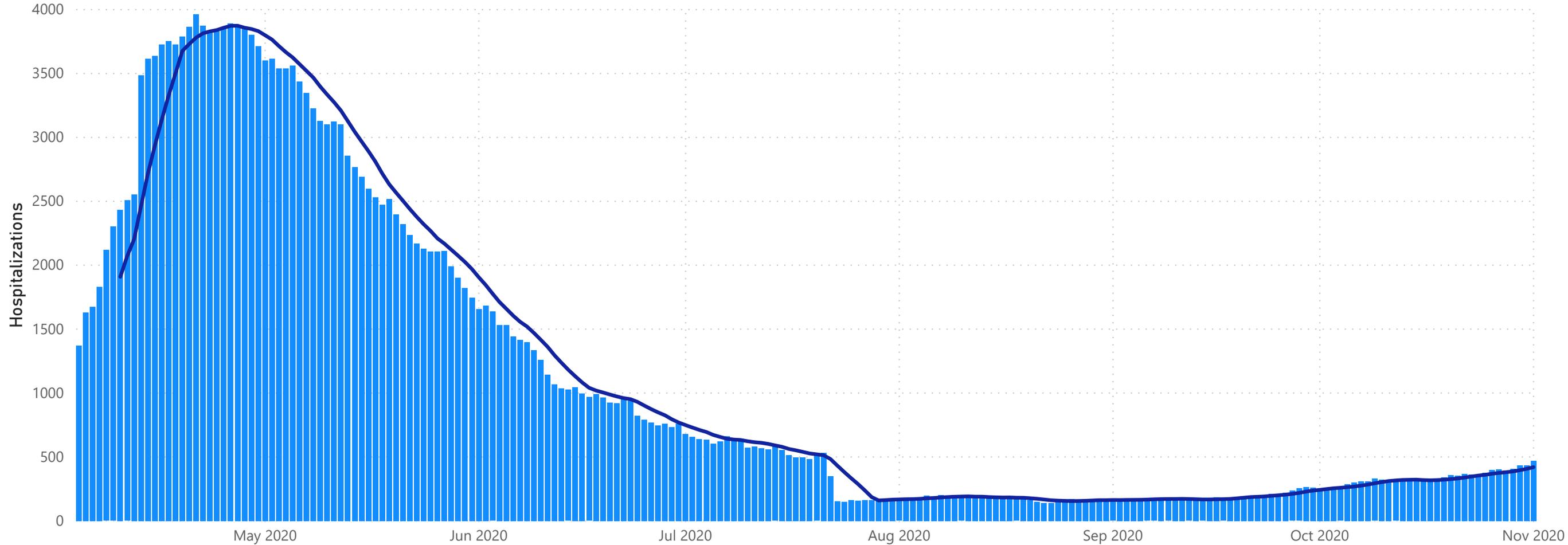
Data Sources: COVID-19 Data provided by the MDPH survey of hospitals (hospital survey data are self-reported); Tables and Figures created by the Office of Population Health.
Notes: data are current as of 3:00pm the day before the date at the top of the page. For purposes of this reporting, "confirmed" are cases with a PCR test.

14

Massachusetts Department of Public Health COVID-19 Dashboard-

Monday, November 02, 2020

Daily COVID-19 Hospitalizations

Patients Reported as Hospitalized with Confirmed COVID-19 by Date

● Changes in Confirmed Hospitalized Patients by Date ● Total Hospital Census Today
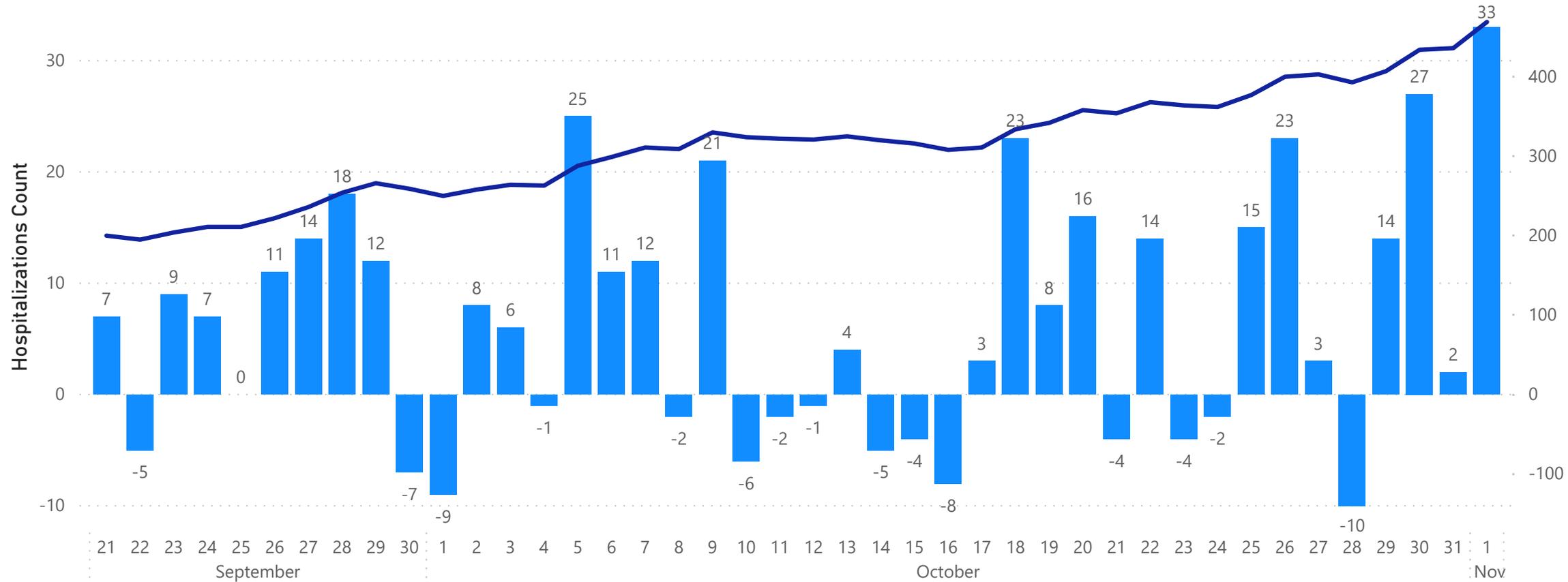
Confirmed COVID-19 Cases Currently Hospitalized

469

Massachusetts Department of Public Health COVID-19 Dashboard- **Monday, November 02, 2020**

Daily and Cumulative COVID-19 ICU and Intubations

Patients Reported in ICU with COVID-19 by Date

● Changes in ICU Count by Date ● Confirmed Patients in ICU

New ICU Count / Total ICU Count

September — October — Nov
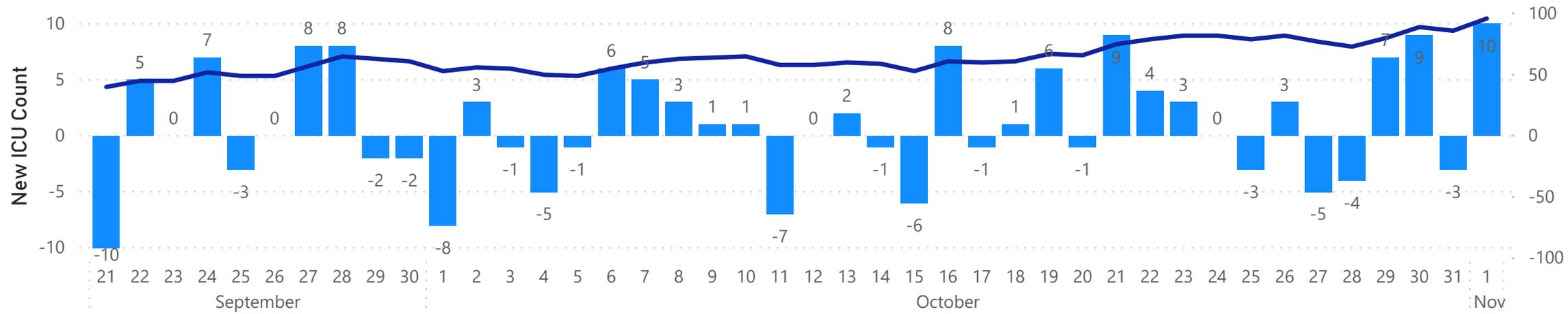
Count of Cases Currently in ICU

96

Patients Reported as Intubated with COVID-19 by Date

● Changes in Intubation Count by Date ● Confirmed Patients Intubated

New Intubation Count / Total Intubation Count

September — October — Nov
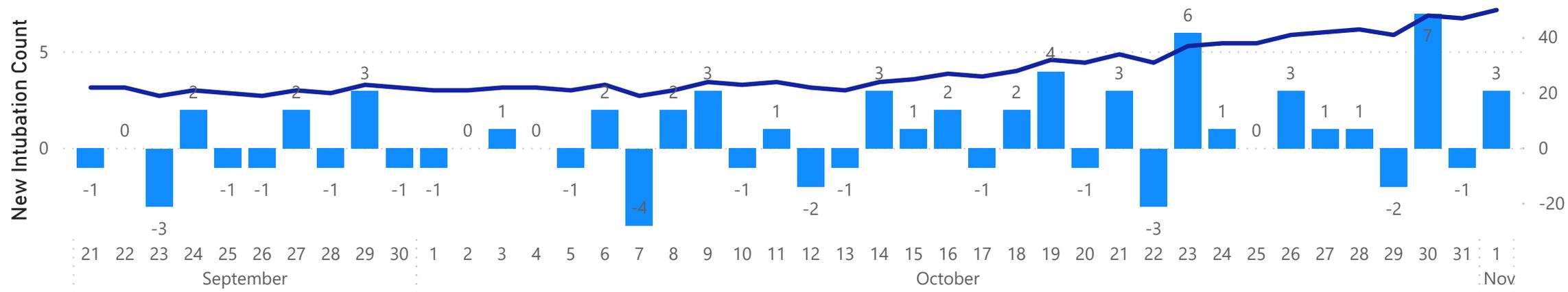
Count of Cases Currently Intubated

50

Data Sources: COVID-19 Data provided by the MDPH survey of hospitals (hospital survey data are self-reported); Tables and Figures created by the Office of Population Health.
Notes: data are current as of 3:00pm the day before the date at the top of the page.

Total Hospital Capacity by Region (Non-ICU)

Data collected as of 11/1/2020 3:00pm

**Occupancy/ availability as reported by hospitals to DPH.**

Regions shown represent EOHHS Regions. Note that total bed estimates may change day-to-day due to hospitals updating surge planning. As of June 16th, data reflects updated data collection methodology and the removal of unstaffed beds from this analysis. Analysis here reflects total beds that hospitals could staff within 12-24 hours. As of 9/8/20, all observation beds and observation status patients will be included in the Available Non-ICU Beds and Occupied Non-ICU Beds categories.

17

Massachusetts Department of Public Health COVID-19 Dashboard-

Monday, November 02, 2020

Total Hospital Capacity by Region (ICU)

Data collected as of 11/1/2020 3:00pm

Massachusetts — Total: 1,800 beds (50% Available, 50% Occupied)

By Region:
- Boston: 700 (43% Available, 57% Occupied)
- Central: 200 (50% Available, 50% Occupied)
- Metro West: 200 (50% Available, 50% Occupied)
- Northeast: 200 (50% Available, 50% Occupied)
- Southeast: 200 (50% Available, 50% Occupied)
- West: 300 (67% Available, 33% Occupied)
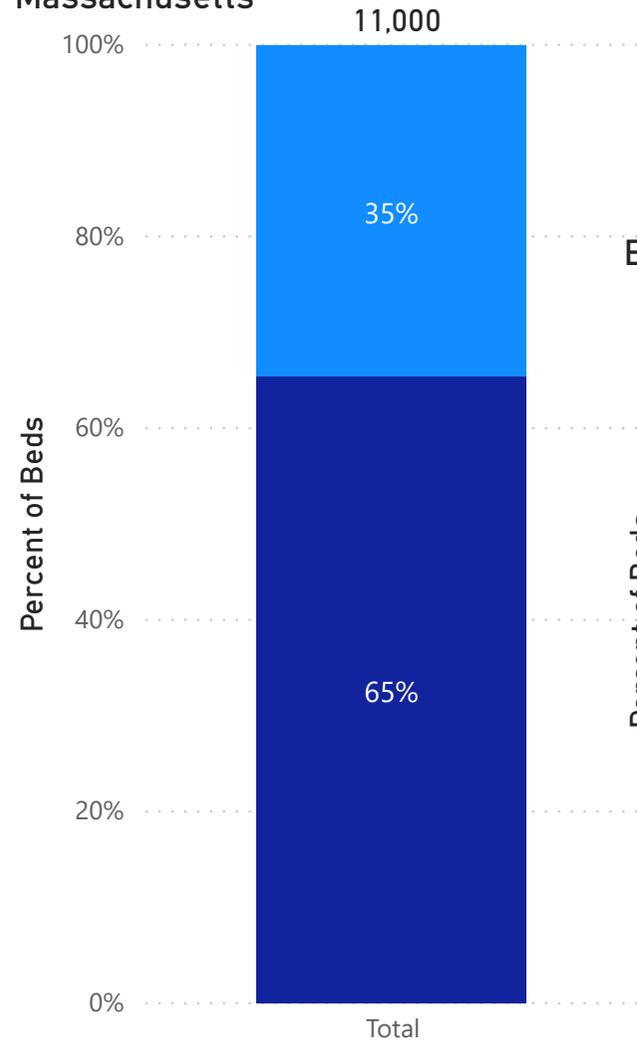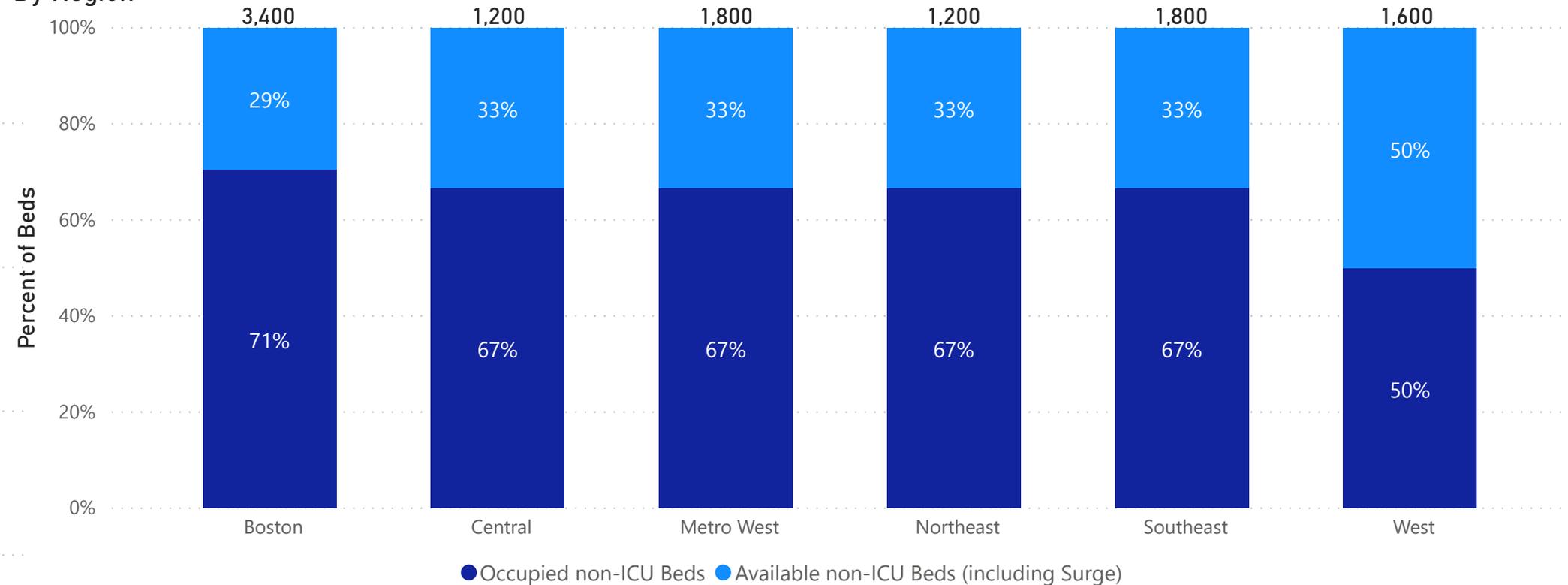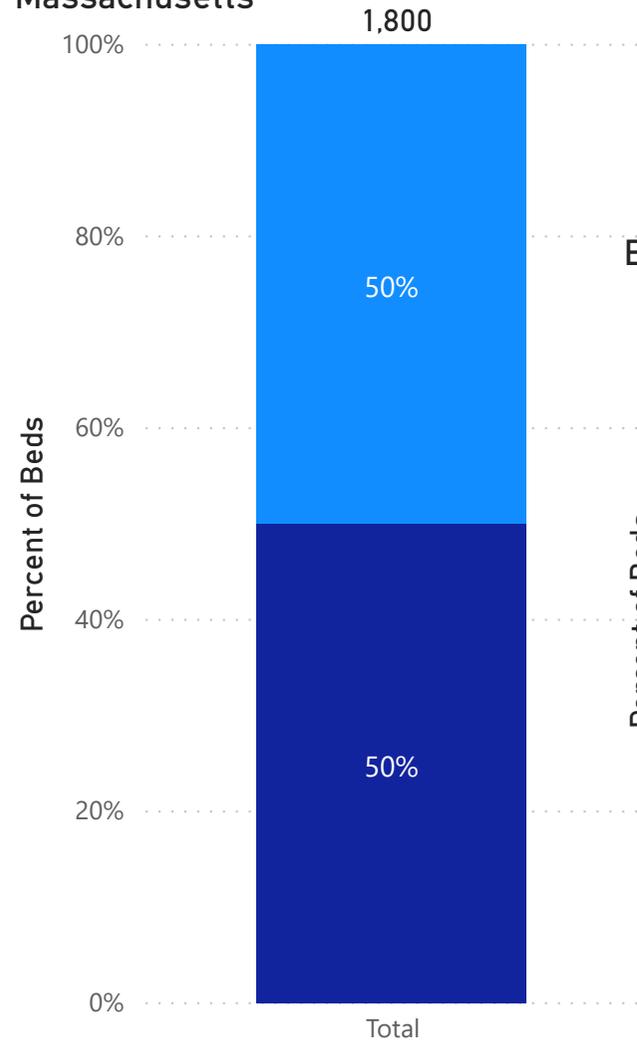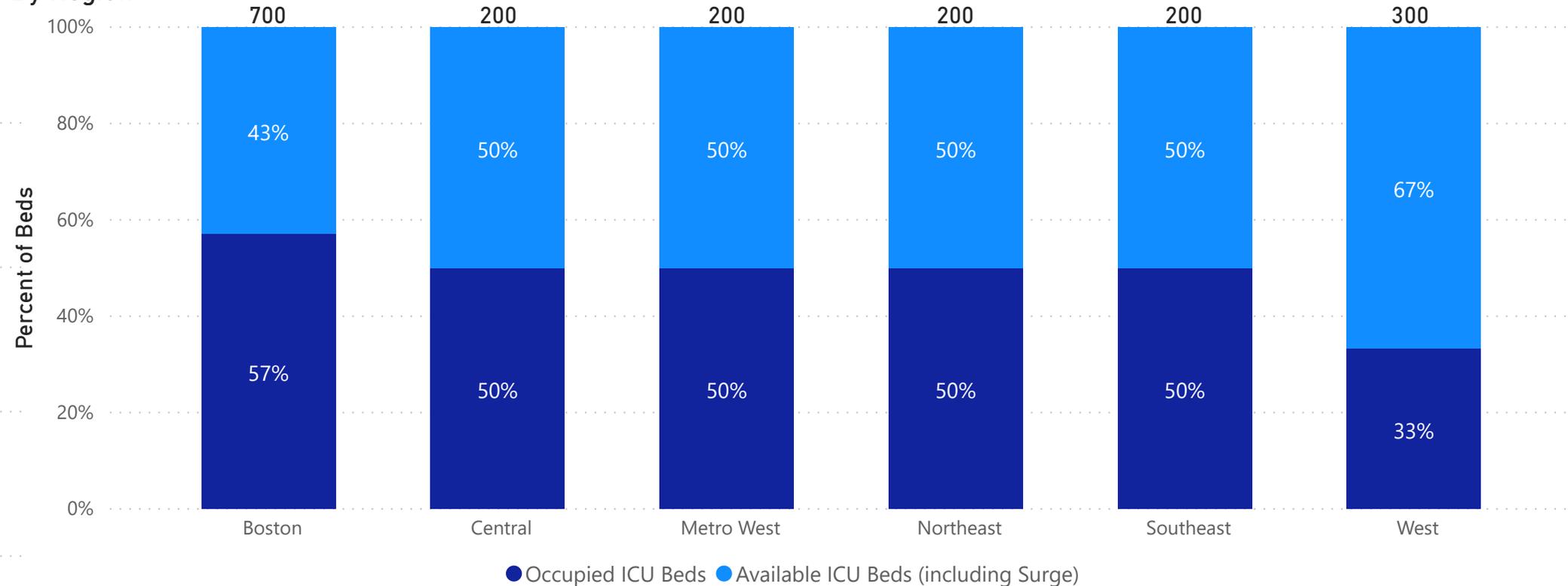
● Occupied ICU Beds ● Available ICU Beds (including Surge)

Occupancy/ availability as reported by hospitals to DPH.
Regions shown represent EOHHS Regions. Note that total bed estimates may change day-to-day due to hospitals updating surge planning. As of June 16th, data reflects updated data collection methodology and the removal of unstaffed beds from this analysis. Analysis here reflects total beds that hospitals could staff within 12-24 hours. As of 9/8/20, all observation beds and observation status patients will be included in the Available Non-ICU Beds and Occupied Non-ICU Beds categories.

Contents

Testing and Cases

Hospitalization

Deaths

Demographics, Activities, and Key Settings

Definitions and Disclaimers

Massachusetts Department of Public Health COVID-19 Dashboard-
Daily Confirmed Deaths (Since March)

Confirmed COVID Deaths by Date of Death

● Confirmed Deaths   ● 7-Day Average of Confirmed Deaths
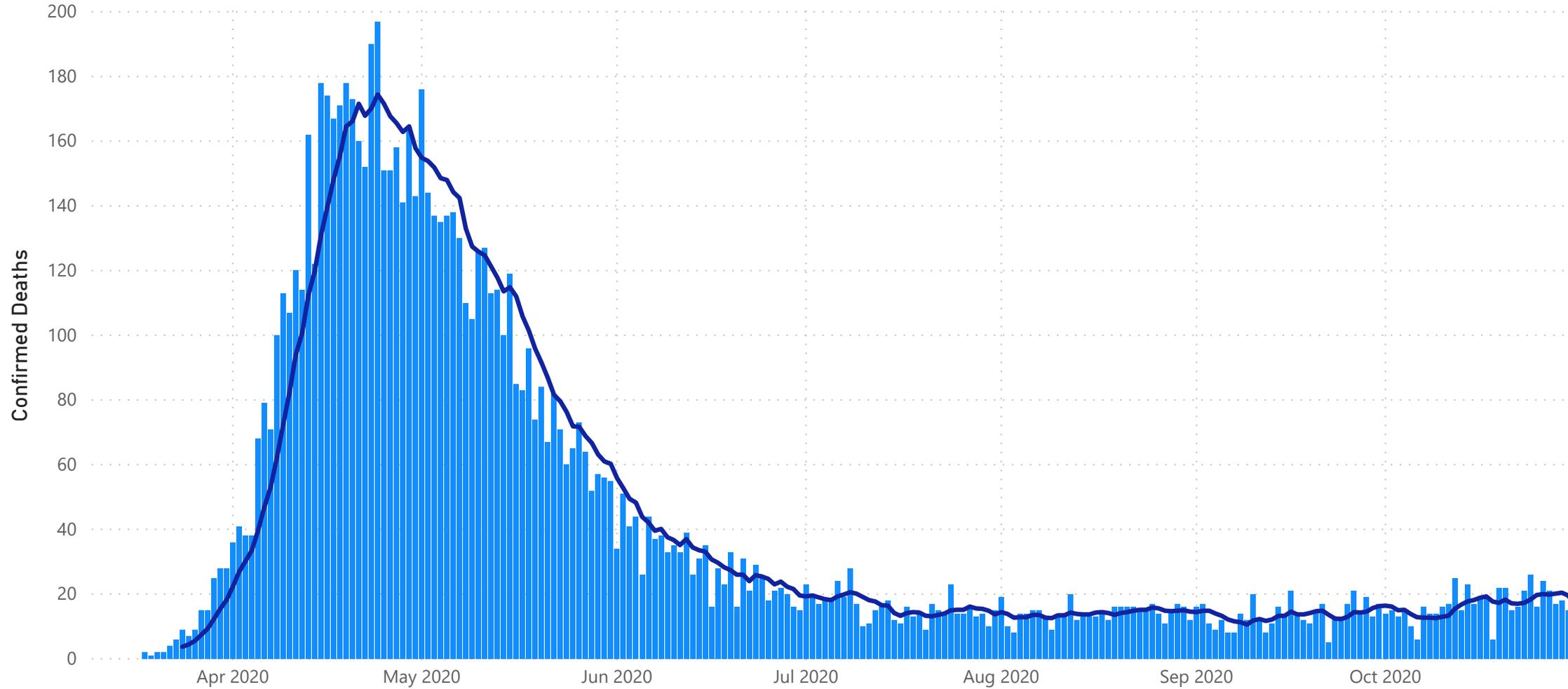
Total Deaths Among Confirmed Cases

9,797

Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; State Population Estimate 2019: Small Area Population Estimates 2011-2020, version 2019, Massachusetts Department of Public Health, Bureau of Environmental Health; Tables and Figures created by the Office of Population Health.
Note: all data are current as of 8:00am on the date at the top of the page.

Massachusetts Department of Public Health COVID-19 Dashboard-
Daily and Cumulative Deaths

Monday, November 02, 2020

Total Deaths* in COVID-19 Cases by Date of Death

● New Confirmed Deaths ● New Probable Deaths
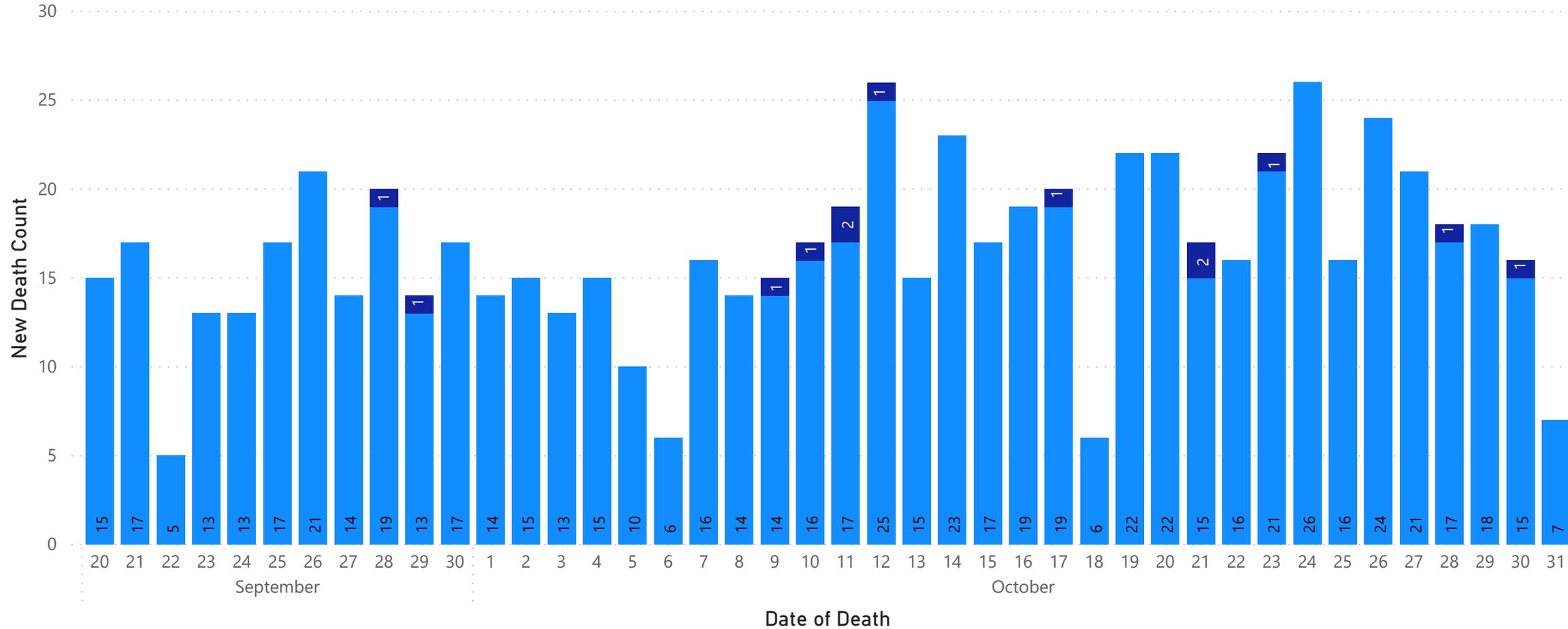
Total Deaths in COVID-19 Cases

10,023

Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences and the Registry of Vital Records and Statistics; Tables and Figures created by the Office of Population Health
Note: all data are current as of 8:00am on the date at the top of the page; *Counts on the trend chart do not match total number of deaths reported, as there is a several day lag in reporting by date of death. Includes both probable and confirmed cases. For confirmed and probable case definitions, please see the Glossary at the end of this document in "Definitions and Disclaimers".

Contents

Testing and Cases

Hospitalization

Deaths

**Demographics, Activities, and Key Settings**

Definitions and Disclaimers

Massachusetts Department of Public Health COVID-19 Dashboard-   Monday, November 02, 2020
All Molecular COVID-19 Tests Associated with Higher Education Testing
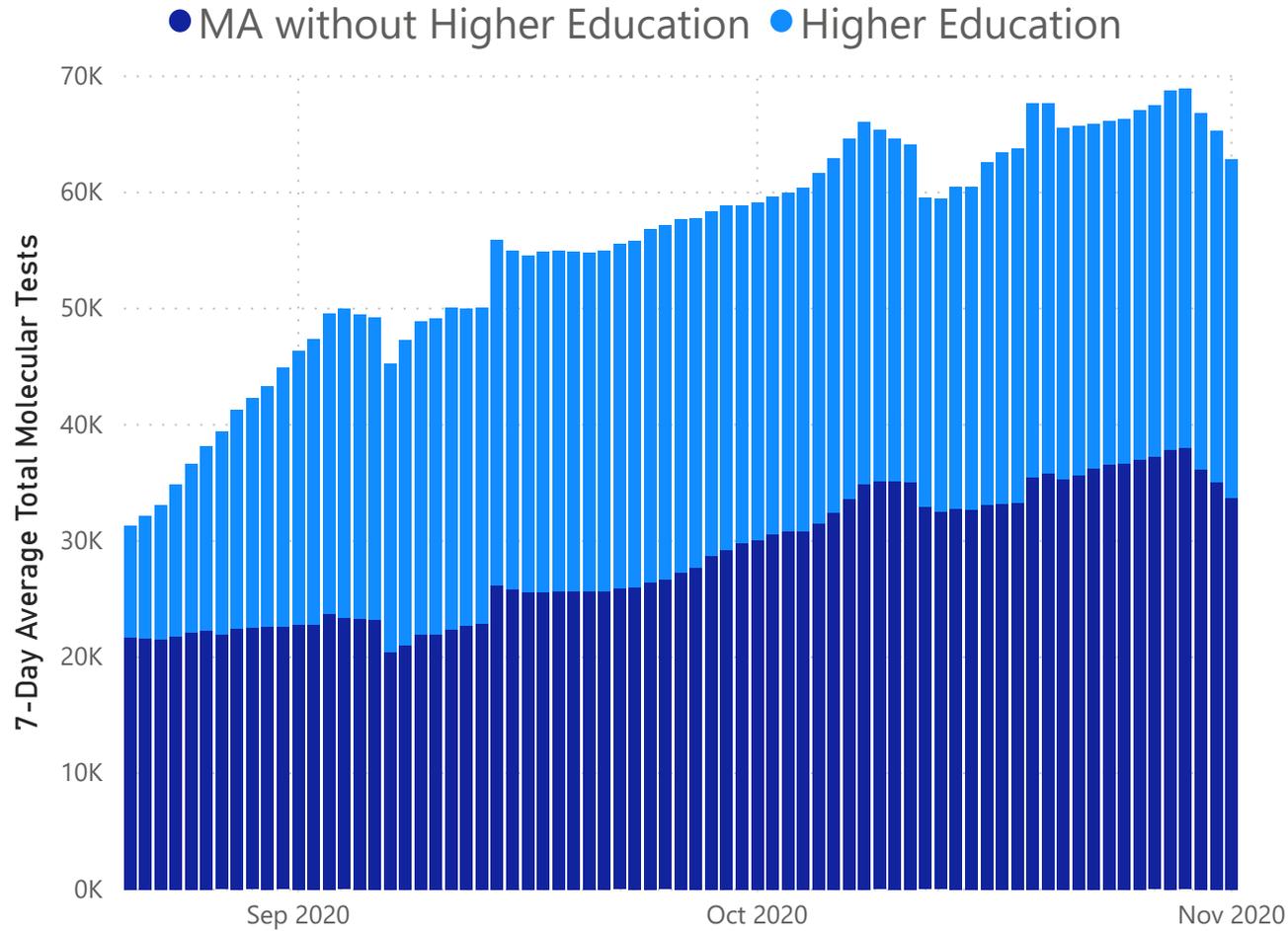
Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; Tables and Figures created by the Office of Population Health.
Note: all data are current as of 8:00am on the date at the top of the page. Due to lag in reporting by laboratories, counts for most recent dates are likely to be incomplete. This includes individuals who have had more than one molecular test.

COVID-19 Cases in Long-Term Care (LTC) Facilities

Residents/Healthcare Workers of Long-Term Care Facilities with Probable or Confirmed COVID-19	Long-Term Care Facilities Reporting At Least One Probable or Confirmed Case of COVID-19	Probable or Confirmed COVID-19 Deaths Reported in Long-Term Care Facilities
25,717	**391**	**6,432**

Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences and the Registry of Vital Records and Statistics; Tables and Figures created by the Office of Population Health
Note: all data are cumulative and current as of 8:00am on the date at the top of the page. Data includes nursing homes, skilled nursing facilities, and rest homes..

Massachusetts Department of Public Health COVID-19 Dashboard- **Monday, November 02, 2020**

Daily and Cumulative County Data

County	New Confirmed Cases Reported	Cumulative Confirmed Cases To Date	New Confirmed and Probable Deaths Reported	Cumulative Confirmed and Probable Deaths To Date
Barnstable	9	2,060	0	185
Berkshire	14	803	0	52
Bristol	105	12,917	1	764
Dukes	0	90		
Dukes and Nantucket			0	2
Essex	112	24,612	0	1,358
Franklin	4	487	1	74
Hampden	66	10,425	1	822
Hampshire	1	1,521	0	155
Middlesex	126	32,907	0	2,288
Nantucket	0	172		
Norfolk	49	12,138	2	1,114
Plymouth	50	11,681	2	841
Suffolk	135	29,166	1	1,184
Unknown	0	329	0	5
Worcester	60	17,077	2	1,179
Total	**731**	**156,385**	**10**	**10,023**

Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences and the Registry of Vital Records and Statistics; Tables and Figures created by the Office of Population Health
Note: all data are current as of 8:00am on the date at the top of the page. Includes both probable and confirmed cases. For the COVID-19 probable case definition, please see the Glossary at the end of this document in "Definitions and Disclaimers".

Contents

Testing and Cases

Hospitalization

Deaths

Demographics, Activities, and Key Settings

Definitions and Disclaimers

Department of Corrections Data

Department of Corrections as required by Chapter 93 of the Acts of 2020, previously found in this dashboard, are available at https://www.mass.gov/guides/doc-coronavirus-information-guide and on the dashboard website: https://www.mass.gov/info-details/covid-19-response-reporting under "Additional COVID-19 data."

Direct links to the DOC information found on those pages include:
   -Inmate data - https://www.mass.gov/info-details/doc-covid-19-inmate-dashboard
   -Staff data - https://www.mass.gov/lists/doc-covid-19-staff-testing-reports
   -Inmate Housing Reports - https://www.mass.gov/lists/doc-covid-19-institution-cell-housing-reports

Glossary of Terms

Please Note: the following terms and definitions apply to COVID-19 only.

Case Definition: A standard set of criteria (including symptoms, laboratory tests and exposure) used to count persons who may have COVID-19. Case definitions tell public health professionals which people with disease to count; they don't tell healthcare providers how to diagnose or treat COVID.

>   **Confirmed Case**: A person is counted as a confirmed case of COVID-19 if they have a positive molecular test.
>   **Probable Case**: A person is counted as a probable case in three ways:
>>   1. if they have a positive antigen test;
>>   2. if they have COVID symptoms AND were exposed to someone with COVID;
>>   3. if they died and their death certificate lists COVID as a cause of death.

More complete information about the COVID-19 case definition may be found here: https://cdn.ymaws.com/www.cste.org/resource/resmgr/ps/positionstatement2020/Interim-20-ID-02_COVID-19.pdf

COVID-19 Antigen Test: This test identifies the presence of proteins on the surface of the virus. These diagnostic tests are somewhat less accurate (i.e., low sensitivity) than molecular tests but a positive result is suggestive of current infection.

COVID-19 Molecular Test: Also known as a PCR test. This diagnostic test identifies the presence of virus's genetic material. These tests are very accurate and a positive result means someone has current or very recent infection.

Estimated active cases: Patients with a confirmed COVID-19 diagnosis in the last 21 days.

Testing by Date: This refers to the date the sample (usually nasal swab or blood) was taken. Most reports and figures in this dashboard use this date.

Total Tests: This represents the total number of tests done and includes people who have had multiple tests.