

# Covid-19 Health Metrics

Based on DPH Weekly Report 12/3/2020



# Dashboard of Public Health Indicators

## Testing and Cases

Newly Reported Confirmed Cases	Total New Molecular Tests Reported	7-Day Average Positivity	Estimated Active Cases
6,477	111,734	5.29%	49,225

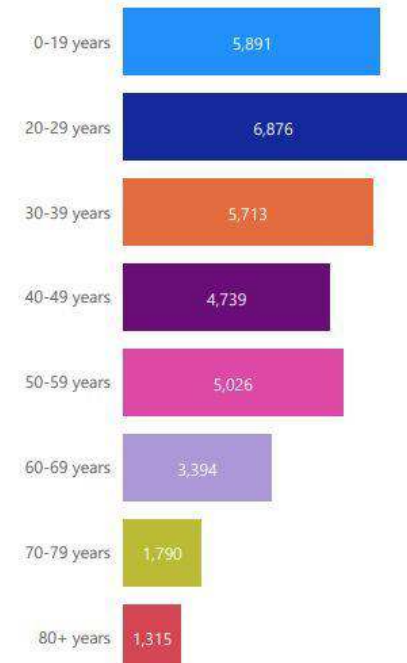
## Hospitalization

Total Confirmed COVID Patients in Hospital	Total Confirmed COVID Patients in ICU	Average Age of Cases that were Hospitalized*
1,324	261	68

## Deaths

Newly Reported Deaths among Confirmed	Average Age of Deaths*	14-Day Average Turnaround (from Test Sample to Report to DPH)*
49	81	2.10

## Total Cases By Age Group from 11/15/2020-11/28/2020\*



Today's case numbers include 680 cases tested by one Massachusetts-based laboratory prior to December 1. The delay in reporting was caused by a technical issue with the software used by that laboratory's reporting vendor.

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 11/15/2020 to 11/28/2020. Please see the most current weekly dashboard for more details <https://www.mass.gov/info-details/covid-19-response-reporting>

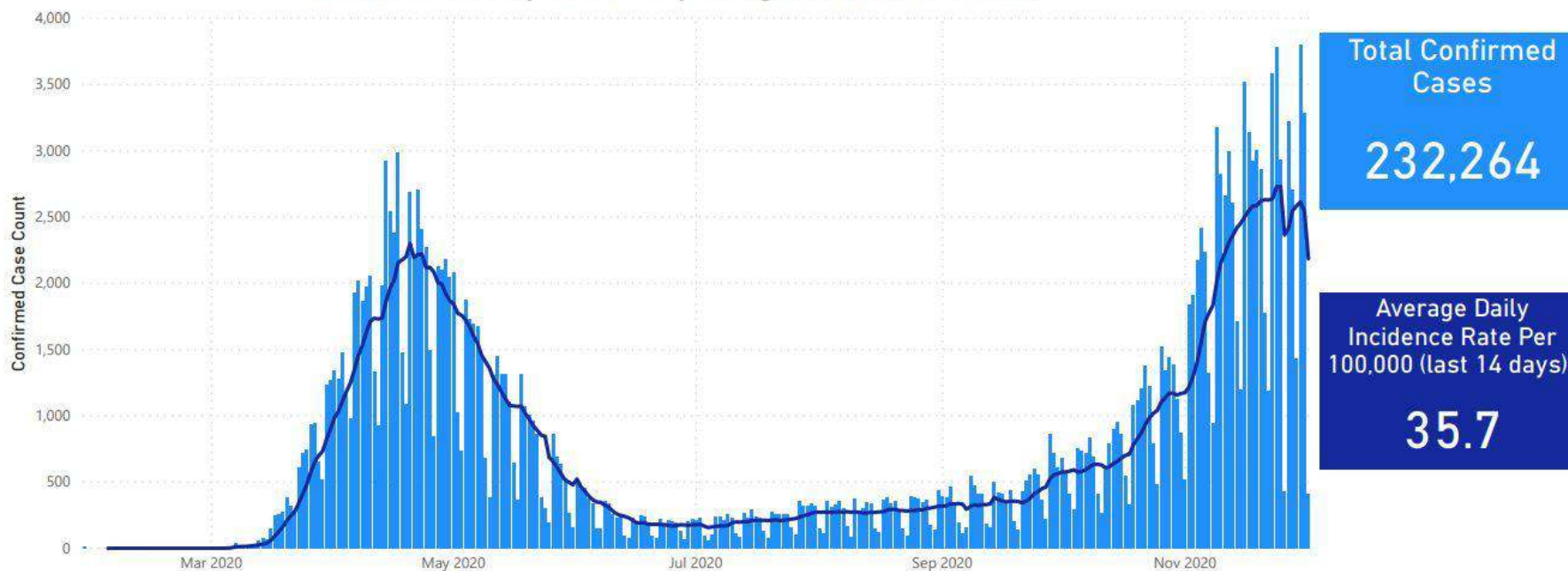
\*Last updated Wednesday, 12/2/2020



# 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



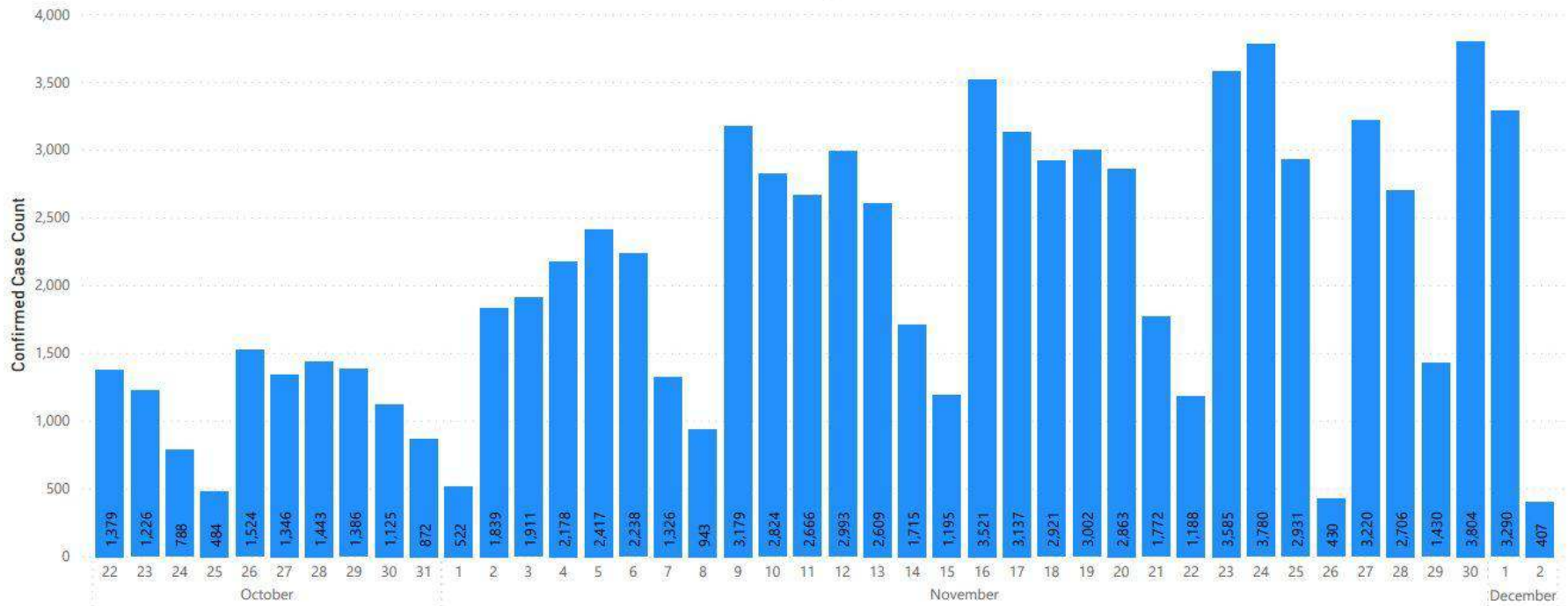
Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; State Population Estimate 2019: Small Area Population Estimates 2011-2020, version 2019, Massachusetts Department of Public Health, Bureau of Environmental Health; Tables and Figures created by the Office of Population Health. Note: all data are current as of 11:59pm on 12/2/2020. Due to lag in reporting by laboratories, counts for most recent dates are likely to be incomplete.

\*Last updated Wednesday, 12/2/2020; Covers 11/15/2020-11/28/2020.



# 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 11:59pm on 12/2/2020. Due to lag in reporting by laboratories, counts for most recent dates are likely to be incomplete.





# 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

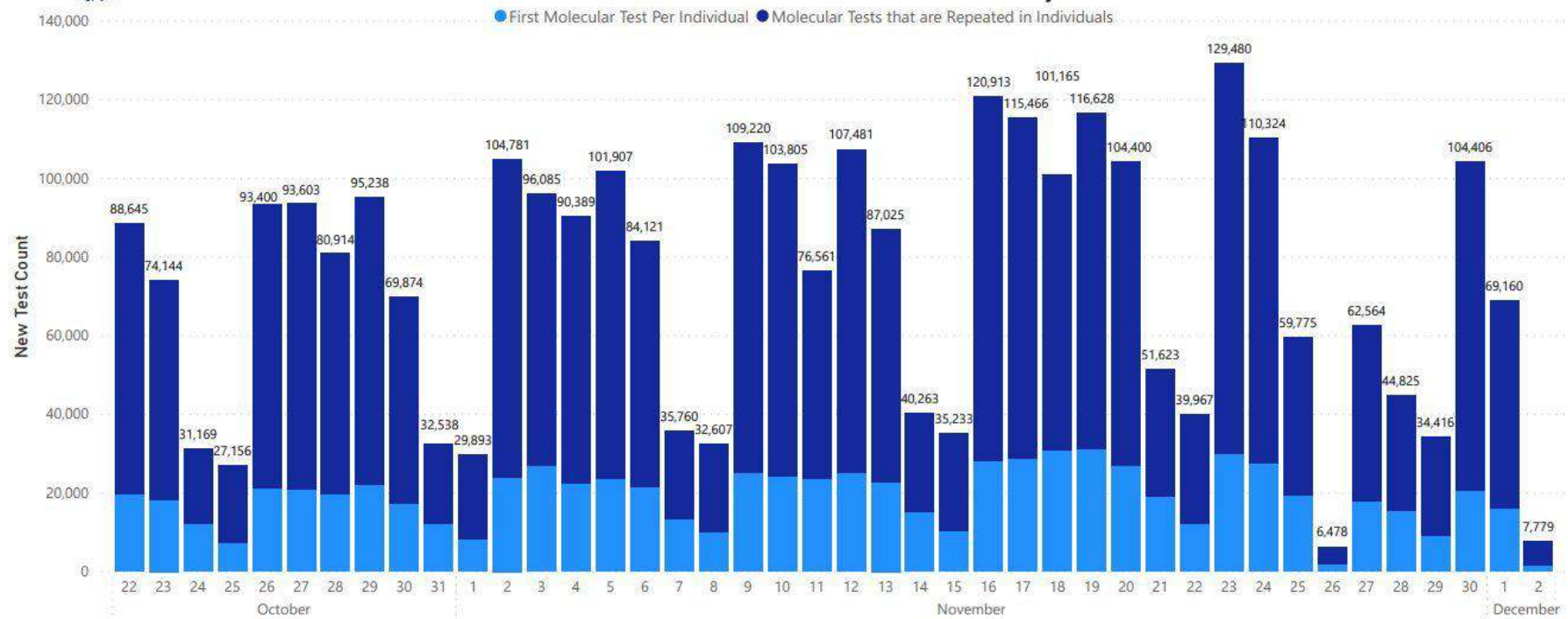


Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences; Tables and Figures created by the Office of Population Health.  
Note: all data are current as of 11:59pm on 12/2/2020. Due to lag in reporting by laboratories, counts for most recent dates are likely to be incomplete. This includes individuals who have had more than one molecular test.



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

Total Number of Molecular Tests Performed by Date



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.

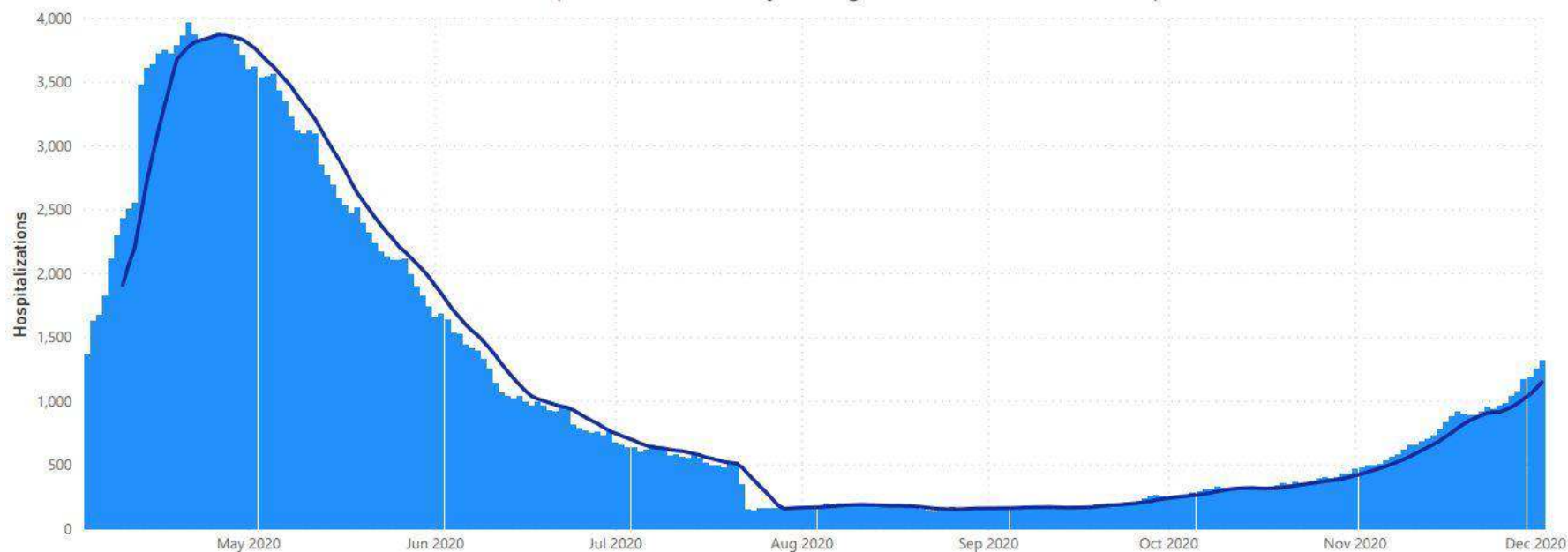
Note: all data are current as of 11:59pm on 12/2/2020. Due to lag in reporting by laboratories, counts for most recent dates are likely to be incomplete. This includes individuals who have had more than one molecular test.



# Daily Confirmed Hospitalizations

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.

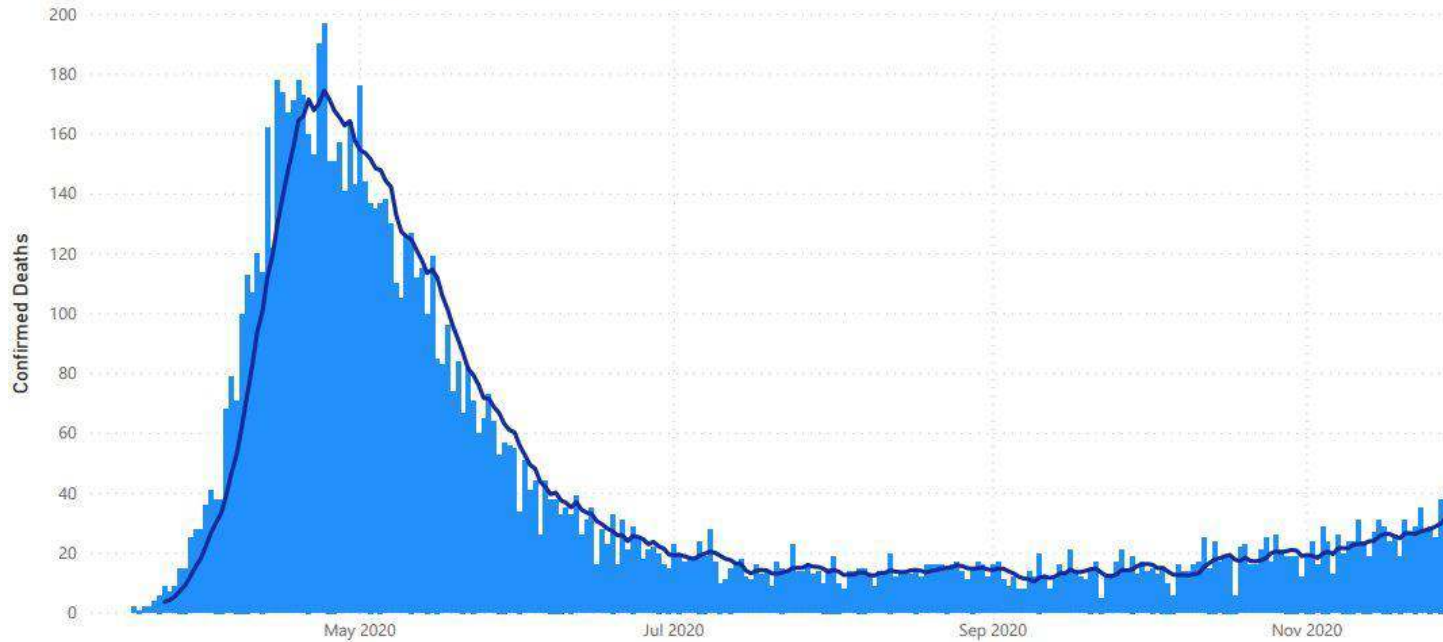
Notes: data are current as of 3:00pm on 12/2/2020. For purposes of this reporting, "confirmed" are cases with a PCR test. Data prior to July 22, 2020 include both confirmed and suspected COVID hospitalizations, as confirmed COVID hospitalizations were not reported separately during this time.



## 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  
**10,637**

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 11:59pm on 12/2/2020.

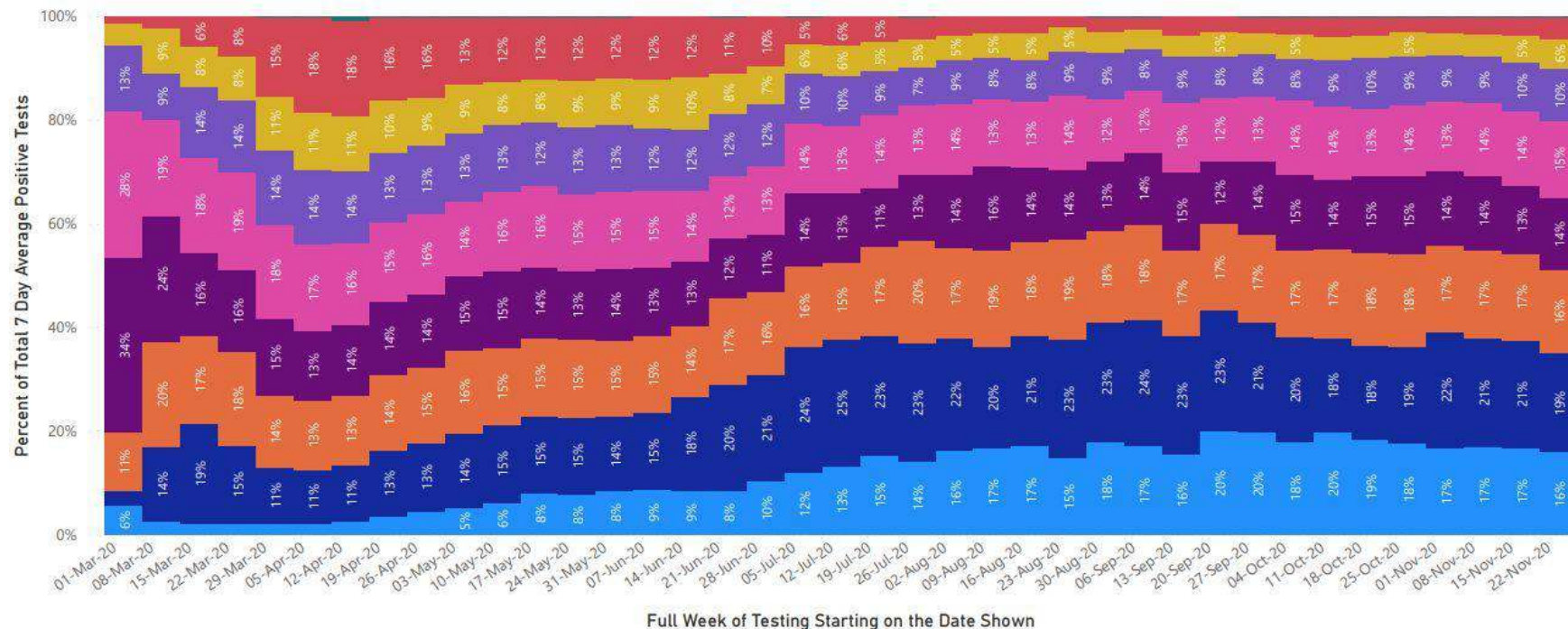




# Positive Tests by Age Group

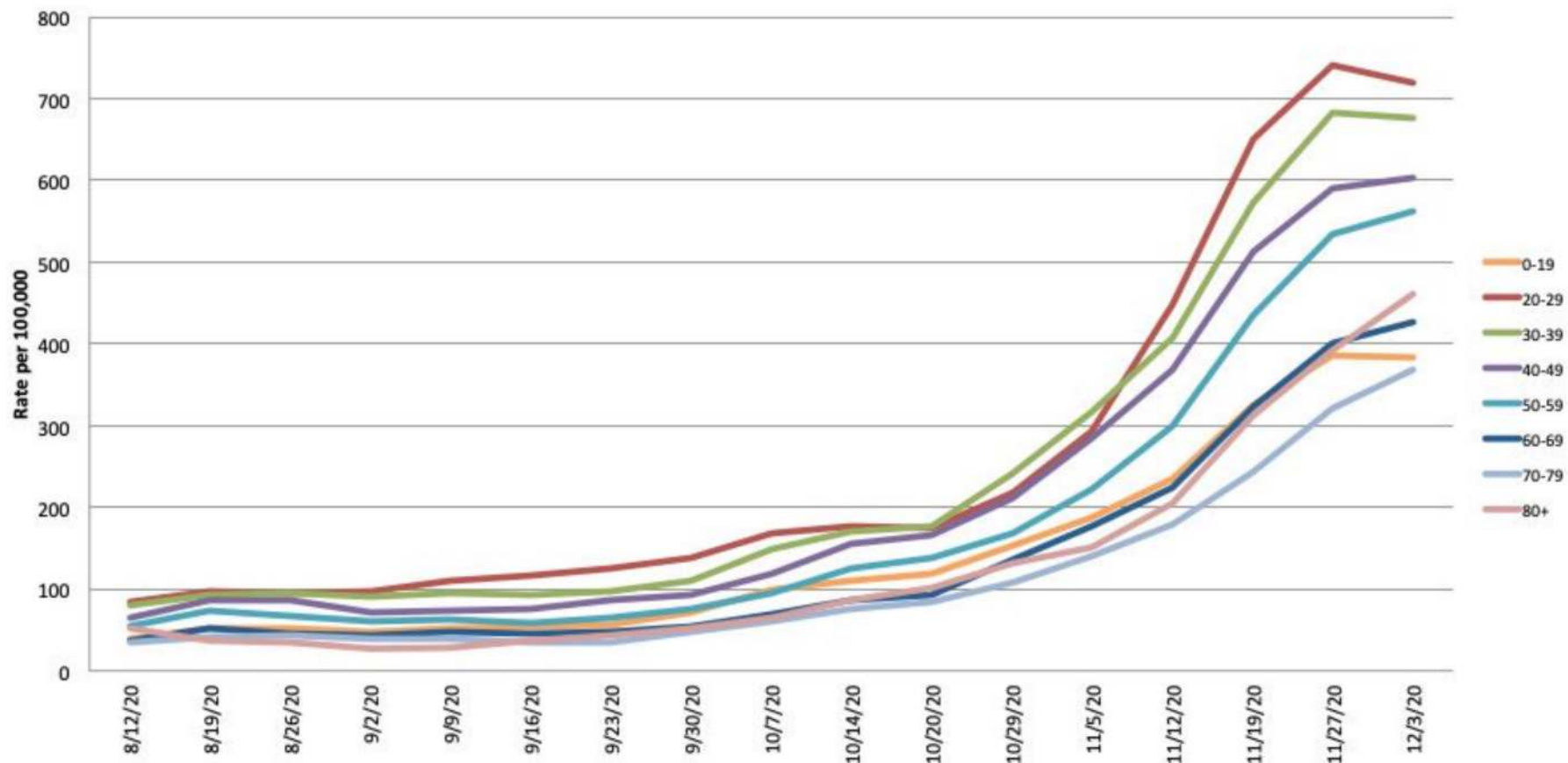
Percent Positive by Week and Age Group

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



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: this data was last updated on Wednesday, 12/2/2020 . This includes individuals who have had more than one molecular test.

Rate (per 100k) of Total COVID-19 Cases by Age Group for the Last Two Weeks



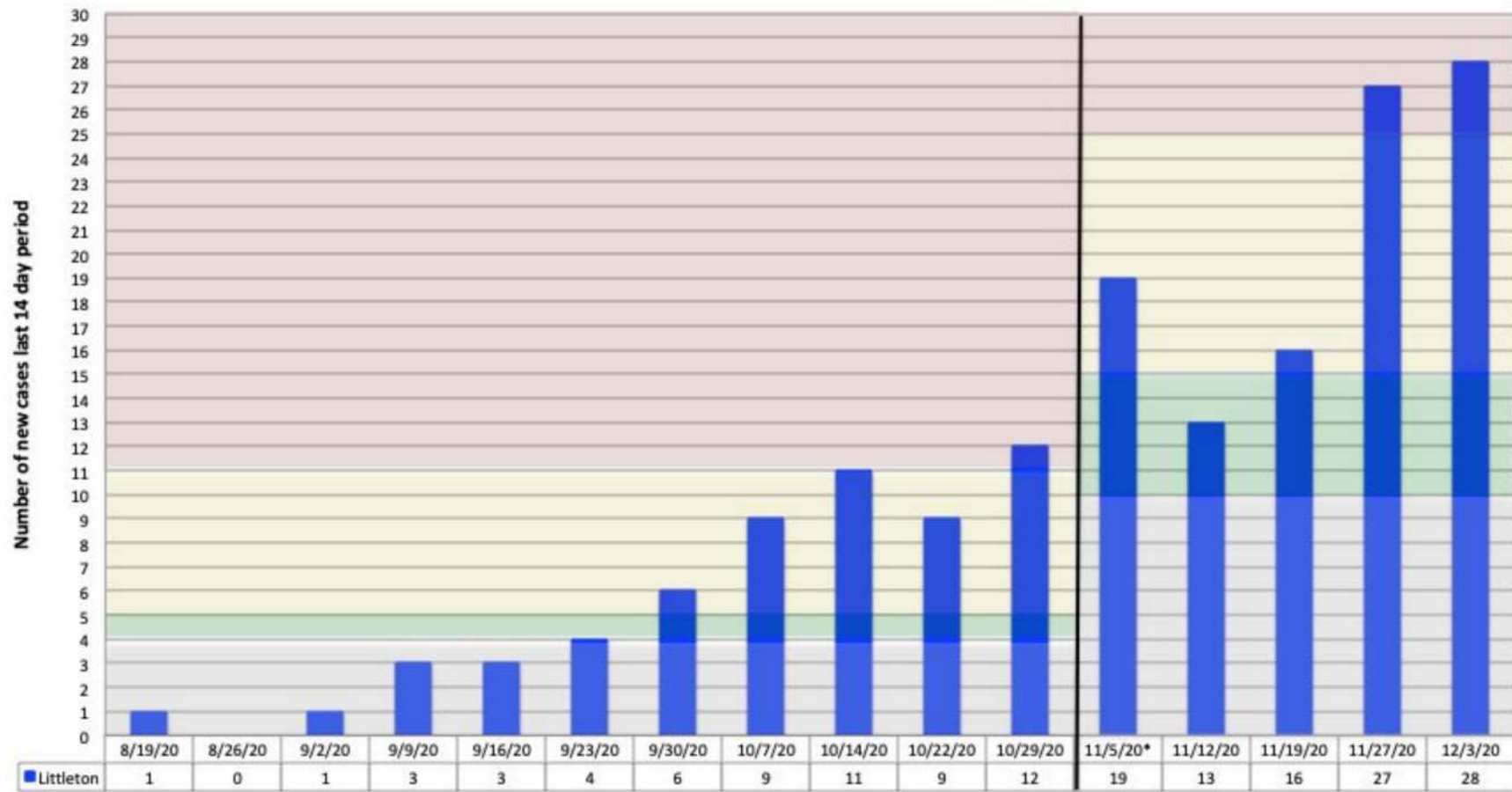


## Average Daily Incidence Rate per 100,000 Color Calculations

Group	Population		
	Under 10K	10K-50K	Over 50K
Grey	Less than or equal to 10 total cases	Less than or equal to 10 total cases	Less than or equal to 15 total cases
Green	Less than or equal to 15 total cases	<10 avg cases/100k AND >10 total cases	<10 avg cases/100k AND >15 total cases
Yellow	Less than or equal to 25 total cases	≥10 avg cases/100k OR ≥5% pos rate	≥10 avg cases/100k OR ≥ 4% pos rate
Red	More than 25 total cases	≥10 avg cases/100k AND ≥5% pos rate	≥10 avg cases/100k AND ≥4% pos rate

As of 11/5, DPH is using 2019 population estimates derived from a method developed by the University of Massachusetts Donahue Institute. The 2019 estimates are the most currently available data.

**Littleton: Number of New Cases in Last 14 Day Period**

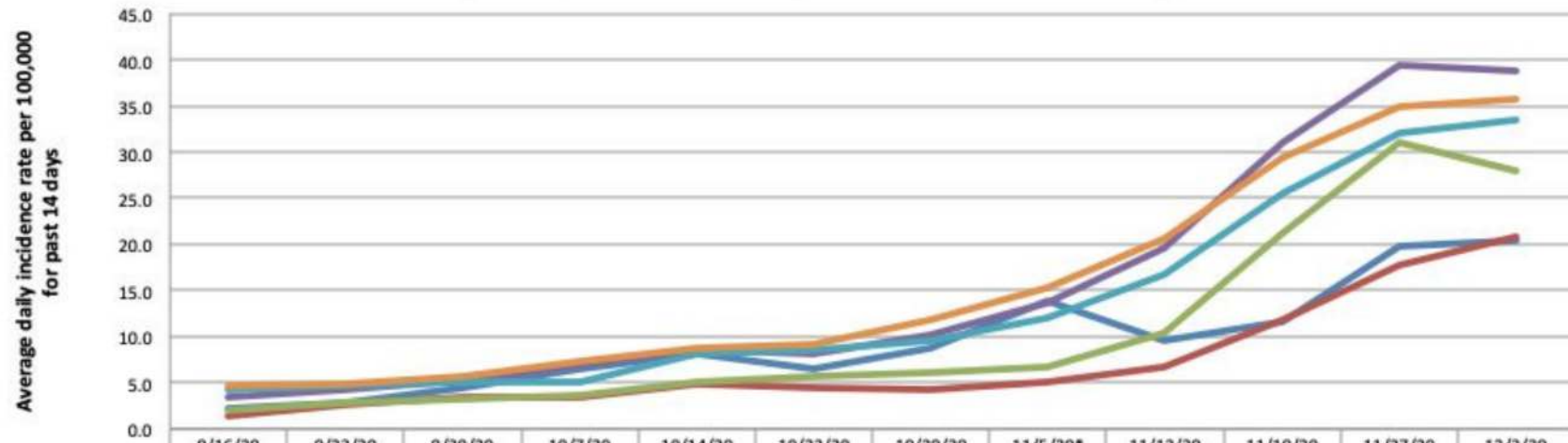




# Average daily incidence rate per 100,000

	Number of new cases (2 week period)	Average daily case rate per 100,000 over last two weeks	Trend (compared to 2 weeks ago)	Threshold Color (new cut points)
MA State	34,793	35.7	Higher (+6.3)	Yellow
Middlesex County	7,600	33.4	Higher (+7.8)	
495 Belt	3,500	38.8	Higher (+7.7)	
Surrounding Communities	836	27.9	Higher (+6.7)	
Border Communities	257	20.8	Higher (+9.1)	
<b>Littleton</b>	<b>28</b>	<b>20.5</b> <b>Nearly double</b>	<b>Higher (+8.8)</b>	<b>Red</b>
Data from Weekly DPH report December 3, 2020				

**Average Daily Incidence Rate per 100,000 for Past 14 Days**

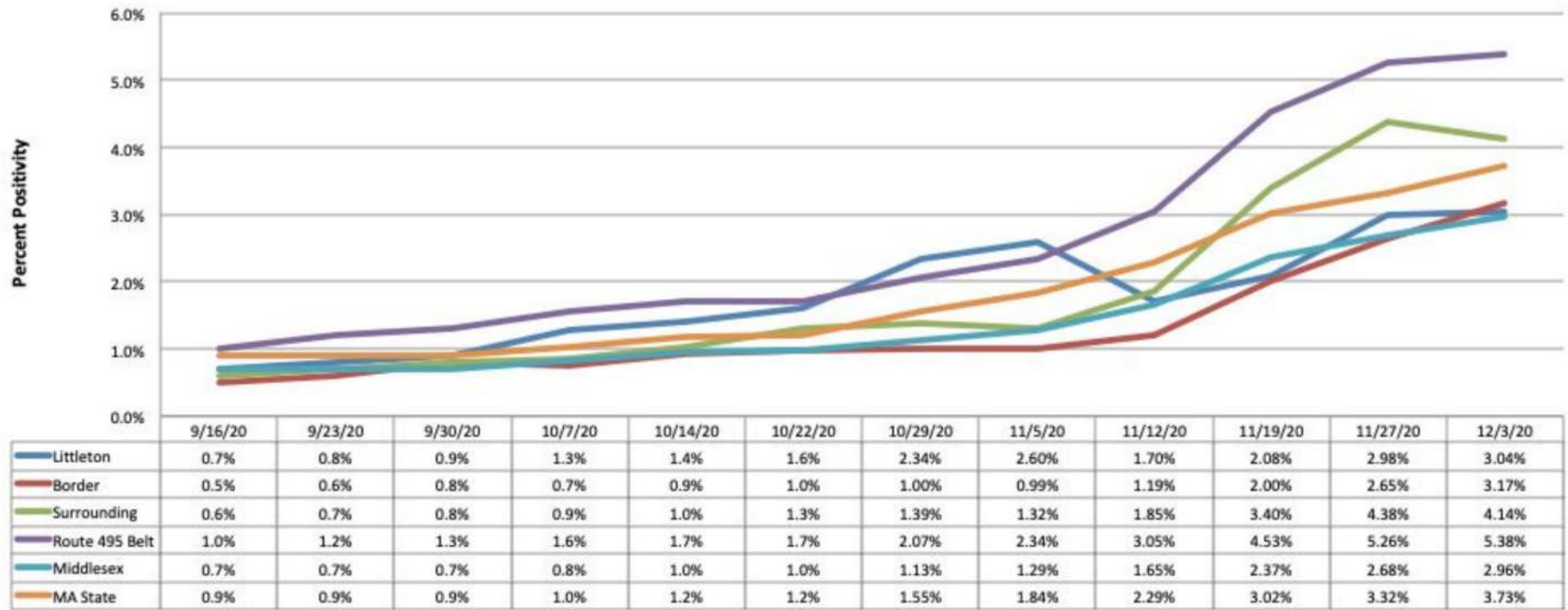


	9/16/20	9/23/20	9/30/20	10/7/20	10/14/20	10/22/20	10/29/20	11/5/20*	11/12/20	11/19/20	11/27/20	12/3/20
Littleton	2.2	2.9	4.4	6.6	8.1	6.6	8.8	13.9	9.5	11.7	19.8	20.5
Border	1.3	2.6	3.4	3.5	4.8	4.4	4.2	5.1	6.7	11.7	17.8	20.8
Surrounding	2.0	2.8	3.2	3.7	5.0	5.7	6.0	6.7	10.4	21.3	31.0	27.9
Route 495 Belt	3.4	4.2	5.2	6.9	8.6	8.1	10.1	13.7	19.5	31.1	39.5	38.8
Middlesex	4.2	4.6	5.1	5.1	8.2	8.5	9.6	12.0	16.7	25.6	32.1	33.4
MA State	4.6	4.9	5.7	7.3	8.7	9.2	11.8	15.3	20.7	29.4	34.9	35.7

# Total Test Positivity

	Total Molecular Tests conducted (last 14 days)	Percent Positivity	Trend (compared to 2 weeks ago)
MA State	1,084,537	3.73%	Higher (+0.71%)
Middlesex County	293,242	2.96%	Higher (+0.60%)
495 Belt	73,445	5.38%	Higher (+0.85%)
Surrounding Communities	21,675	4.14%	Higher (+0.74%)
Border Communities	8894	3.17%	Higher (+1.17%)
<b>Littleton</b>	<b>1054</b> <b>(+200 tests per week)</b>	<b>3.04%</b>	<b>Higher (+0.96%)</b>
Data from Weekly DPH report December 3, 2020			

## Total Test Positivity







### Active COVID Clusters by Exposure Setting Type

Exposure	New Clusters (Identified 11/01 – 11/28)			Ongoing Clusters (Cluster Identified Prior to 11/01 But Not Meeting Criteria for Closing)			Total		
Setting	Clusters	Confirmed Cases	Contacts	Clusters	Confirmed Cases	Contacts	Clusters	Confirmed Cases	Contacts
24/7 Congregate Settings	33	157	43	43	59	24	76	216	67
Child Care	90	256	367	66	39	121	156	295	488
Colleges & Universities	23	104	24	20	23	34	43	127	58
Corrections	6	105	5	9	572	115	15	677	120
Hospitals	14	159	19	18	54	74	32	213	93
Household	9,393	23,756		3,510	2,004		12,903	25,760	
Industrial Settings	20	70	39	47	99	89	67	169	128
K-12 Schools	30	106	111	39	27	88	69	133	199
Long Term Care Facilities	132	1,027		122	890		254	1,917	
Offices	6	25	6	9	10	9	15	35	15
Organized Athletics/Camps	9	26	104	33	8	129	42	34	233
Other	4	35	36	7	2	5	11	37	41
Other Food Establishments	1	4	0	6	4	19	7	8	19
Other Healthcare	13	57	14	16	31	9	29	88	23
Other Workplaces	13	56	16	14	38	5	27	94	21
Places of Worship	5	33	6	11	7	34	16	40	40
Recreation/Cultural	1	13	0	4	8	1	5	21	1
Restaurants & Food Courts	24	103	123	55	37	48	79	140	171
Retail & Services	8	25	15	20	14	3	28	39	18
Senior Living	33	181	8	25	133	5	58	314	13
Shelters	3	18	13	3	1	0	6	19	13
Social Gatherings	21	130	54	41	10	46	62	140	100
Travel & Lodging	1	5	4	2	0	0	3	5	4
<b>Total</b>	<b>9,883</b>	<b>26,451</b>	<b>1,007</b>	<b>4,120</b>	<b>4,070</b>	<b>858</b>	<b>14,003</b>	<b>30,521</b>	<b>1,865</b>

New Clusters: Clusters with the first case (indicated by the first positive lab result) identified during the four week period 11/1 – 11/28/2020

Ongoing Clusters: Clusters with the first case identified prior to 11/1 that has not met criteria to be closed. Confirmed cases included in ongoing clusters occurred between 11/1 and 11/28 but are associated with a cluster that began prior to 11/1. Close contacts included in ongoing clusters occurred between 11/1 and 11/28 but are associated with a cluster that began prior to 11/1

Closed Clusters: A cluster is closed after 28 days have passed since the last confirmed case; 18,237 clusters are closed, 88,400 cases are associated with closed clusters

Source of data: Massachusetts Department of Public Health, Bureau of Infectious Disease and Laboratory Sciences. Long Term Care Facility Data from the National Healthcare Safety Network beginning 5/31/2020. All other data from MAVEN and are subject to change. Only clusters consisting of two or more confirmed Massachusetts cases with a common exposure have been included.



# Massachusetts Department of Public Health COVID-19 Dashboard – Thursday, December 3, 2020

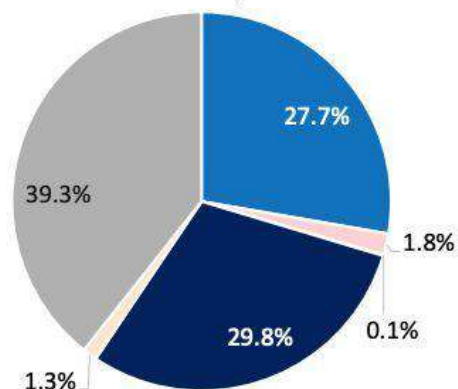
## MA Contact Tracing: Case and Contact Outreach Outcomes for Last Two Weeks

Case Outreach Completed:  
**60.7% of 22,203**  
(65% Case Outreach Completed Within 1 Day)  
Nov. 15- Nov. 28, 2020

Contact Outreach Completed:  
**74.6% of 16,721**  
Nov. 15- Nov. 28, 2020

### Case Outreach Outcomes

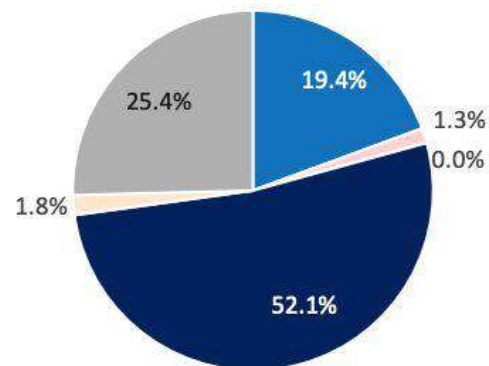
Nov. 15- Nov. 28, 2020



- Isolation/ Quarantine Complete
- Lost-to Follow Up
- Deceased
- Ongoing Monitoring
- Other
- Not Reached

### Contact Outreach Outcomes

Nov. 15- Nov. 28, 2020



<b>Total Workforce</b> (Dec. 1, 2020)	<b>2,815</b>
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Combined case investigation, contact tracing, and monitoring workforce

Note: The COVID-19 Community Tracing Collaborative (CTC) began operation on April 10, 2020. Data in this dashboard reflect the combined contact tracing conducted by Local Health Departments, Massachusetts Department of Public Health (MDPH) and the CTC since that date. Prior to April 10, 2020, all COVID-19 contact tracing in Massachusetts was conducted by Local Health Departments.

# CONTACT TRACING SLOWS THE SPREAD OF COVID-19

## Answer the call!

**Contact tracing**  
helps keep you, your  
family, and your  
community safe.

[cdc.gov/coronavirus](https://cdc.gov/coronavirus)

CS 317.662 10/05/20





# Masks Protect Others AND Protect YOU

## NEW FACE MASK REQUIREMENTS

EFFECTIVE NOVEMBER 6, 2020\*



ALL PERSONS OVER THE AGE OF 5\*\* MUST WEAR A FACE COVERING WHENEVER IN PUBLIC, INDOORS OR OUTDOORS



FACE COVERINGS ARE REQUIRED WHEN IN A VEHICLE WITH NON-HOUSEHOLD MEMBERS

FAILURE TO COMPLY WITH THIS ORDER MAY RESULT IN A CIVIL FINE OF UP TO \$300 PER VIOLATION.

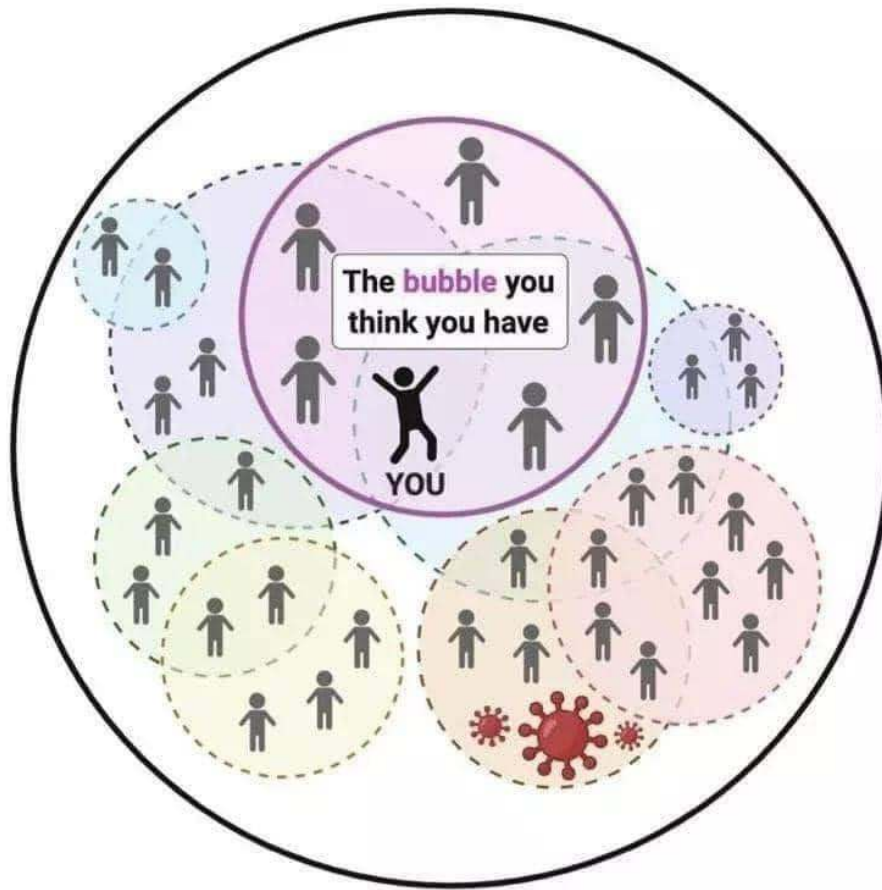
For more information visit [mass.gov/maskrules](https://mass.gov/maskrules)

\*IN ACCORDANCE WITH EXECUTIVE ORDER #55

\*\*MASKS ARE ENCOURAGED BUT NOT REQUIRED FOR AGES 2-5







The bubble you actually have

Practice  
COVID-19  
Prevention  
Daily

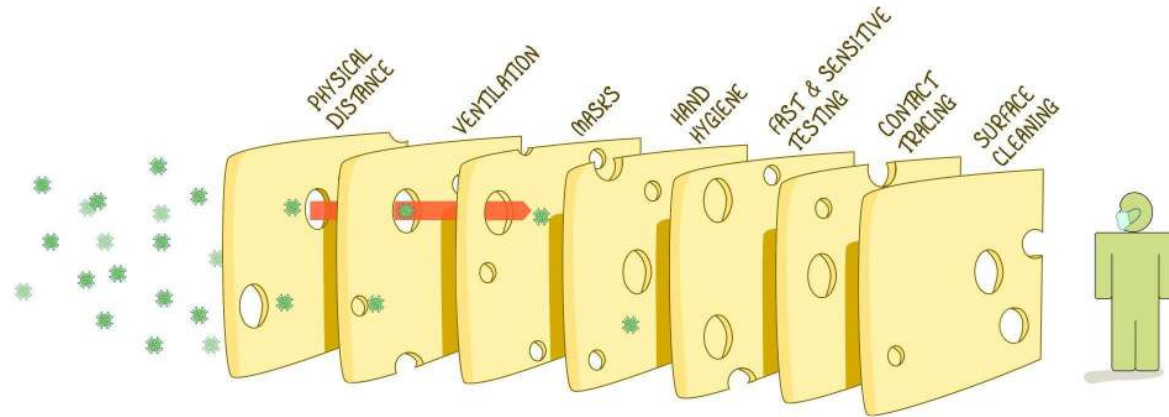
# LAYER UP, LITTLETON

## Stop the Spread of COVID-19

Anytime you are with people  
you don't live with or near  
someone who is Covid+:

- Wear a **mask**
- **Wash** your hands
- Stay at least **6 feet** apart
- Meet outside or **improve ventilation** by opening windows and doors
- Take extra precautions around someone at higher risk for severe illness from Covid-19

THE SWISS CHEESE RESPIRATORY VIRUS DEFENCE  
RECOGNISING THAT NO SINGLE INTERVENTION IS PERFECT AT PREVENTING SPREAD



EACH INTERVENTION (LAYER) HAS IMPERFECTIONS (HOLES).  
MULTIPLE LAYERS IMPROVE SUCCESS.

IAN M MACKAY  
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VERSION 1.3  
UPDATE: 12OCT2020