

Advisory Panel 4: Public Health, Safety, & Logistics

Metrics Review

February 12, 2021

Community Benchmarks - Status

Benchmark (each measured over prior 14 days)	Status 1/20/21	Status 1/27/21	Status 2/3/21	Status 2/10/21
Avg. daily new case count in Brookline = <10 per 100k people	27.4	24.3	19.9	15.3
Avg. daily new case count in Mass. = <10 per 100k people	75.5	59.4	48.9	38.5
Avg. test positivity rate in Brookline = <5.0%	2.31%	2.05%	1.52%	1.16%
Avg. test positivity rate in Massachusetts = <5.0%	6.85%	5.51%	4.32%	3.40%

Because at least two of these four thresholds have been exceeded, Panel 4 has advised PSB to make further enhancements to anti-transmission measures:

<u>www.brookline.k12.ma.us/cms/lib/MA01907509/Centricity/Domain/62/PSB%20Advisory%20Panel%204%20-</u> %20Statement%20of%20Recommendations%20for%20Times%20of%20Elevated%20Community%20Spread 12.11.20.pdf

MA DPH Color Scale

Incidence Rate Color Table



Massachusetts Department of Public Health COVID-19 Dashboard - Thursday, November 12, 2020 Average Daily Incidence Rate per 100,000 Color Calculations

	Population				
Group	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		

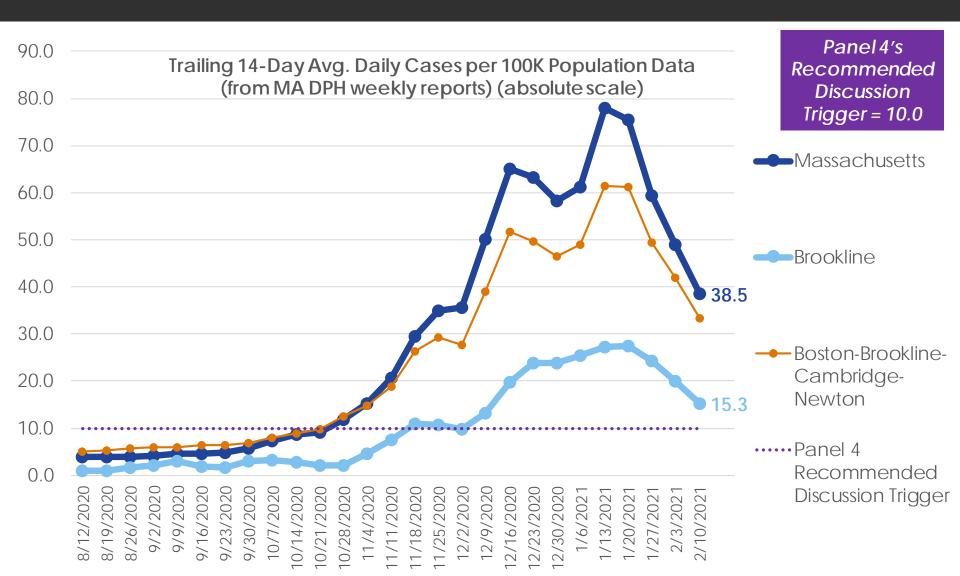
Brookline is here as of 2/10/2021 (yellaw zone)

Brookline's population is ~60,000

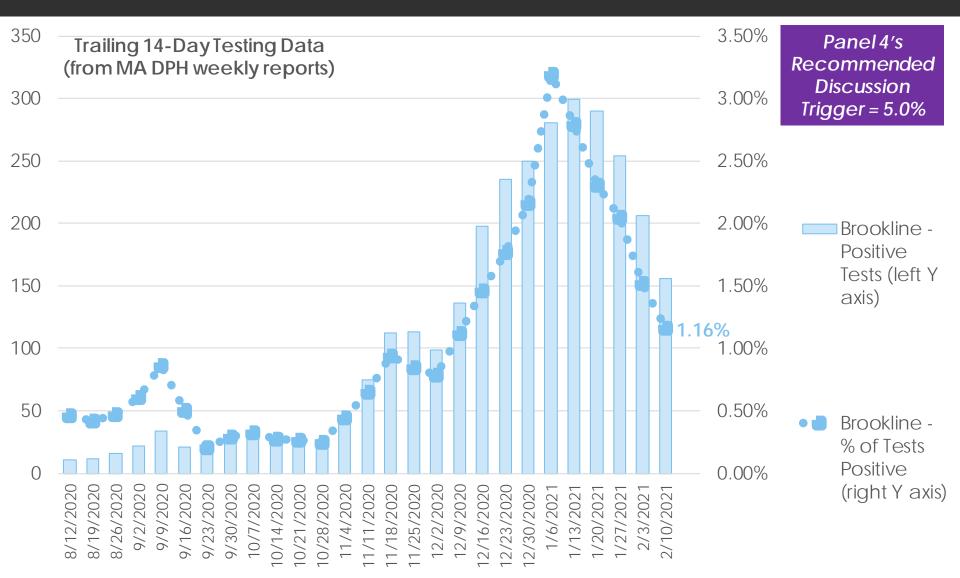
As of 11/5, DPH is using 2019 population estimates derived from a method developed by the University of Massachusetts Donahue Institute. The 2019 estimates are the most currently available data.

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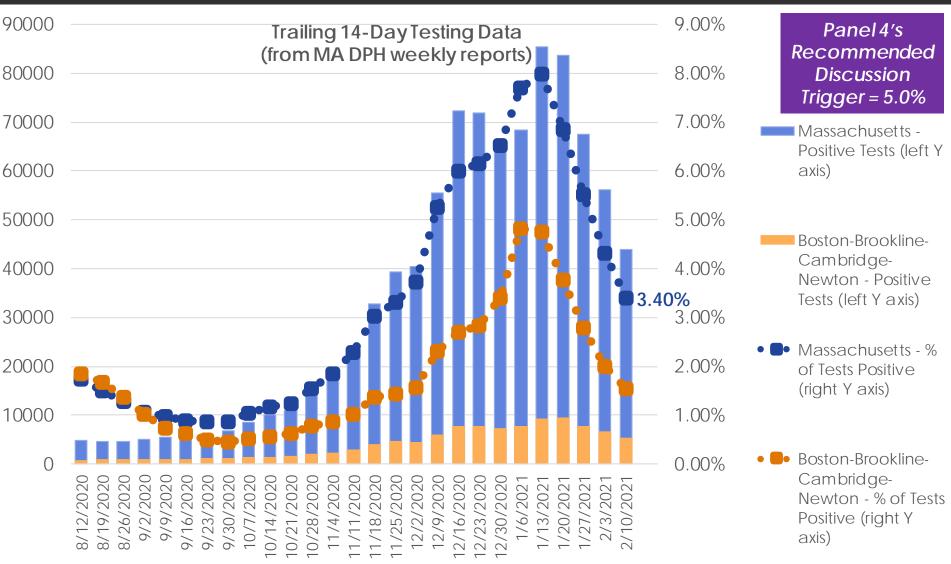
Trends: Avg. Daily New Cases per 100k



Trends: Test Positivity (Brookline)

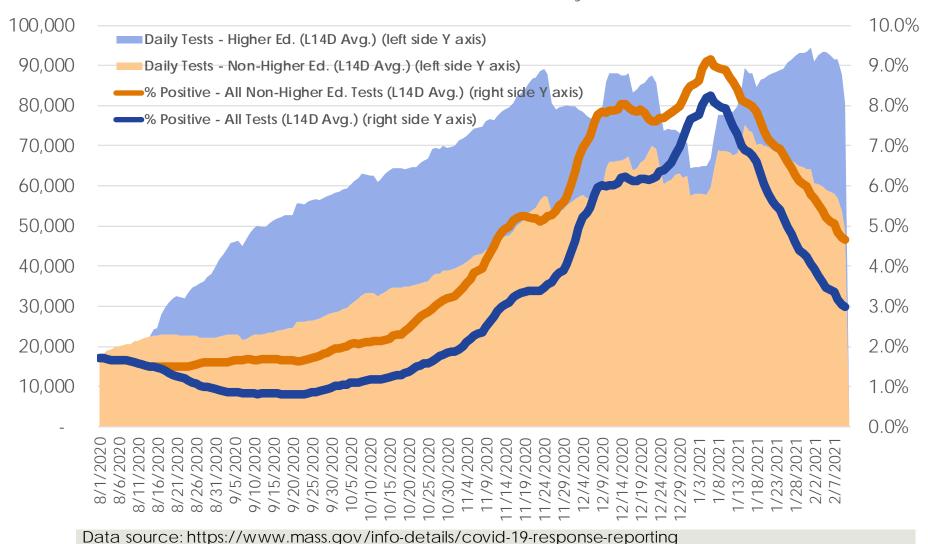


Trends: Test Positivity (Statewide)

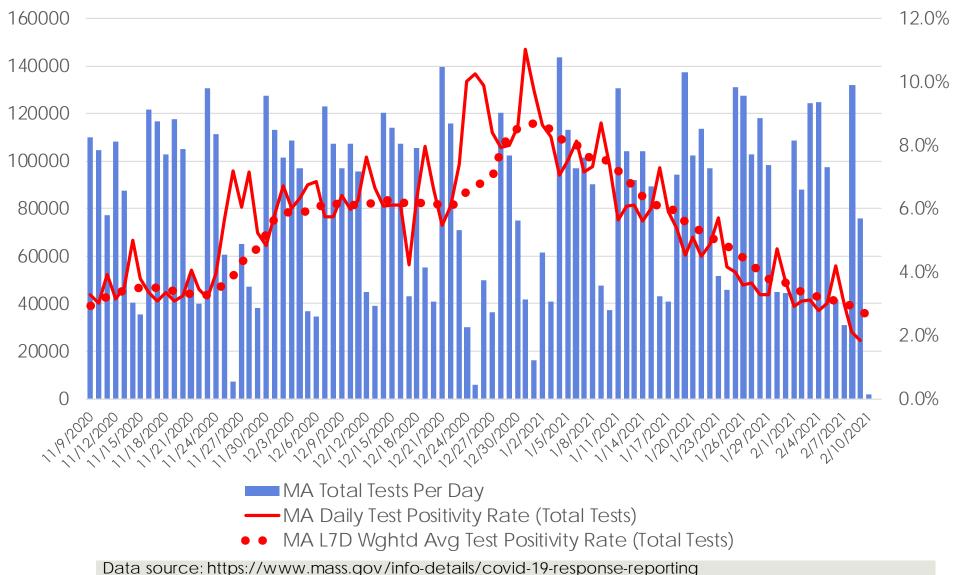


Trends: Test Positivity and Testing Volume (Statewide)

MA Statewide Test Positivity



Trends: Daily Test Volumes and Positivity (Statewide)



Brookline in Regional Context

(as of 2/10/2021)

Municipality	Avg. Daily Cases/100k L14D	% of Tests Positive L14D	Total Tests L14D / Muni. Population
Dedham	66.2	6.3%	16%
Boston	38.8	1.8%	34%
Milton	36.8	2.3%	24%
Somerville	30.1	1.1%	43%
Watertown	28.8	2.3%	21%
Needham	28.1	2.0%	23%
Cambridge	21.5	0.8%	48%
Arlington	20.7	2.0%	16%
Newton	20.3	0.8%	40%
Wellesley	20.2	0.8%	36%
Belmont	16.2	1.9%	16%
Brookline	15.3	1.2%	21%

Public Schools of Brookline Case Counts: Trends Over Time

Data Last Updated: 2/12/21

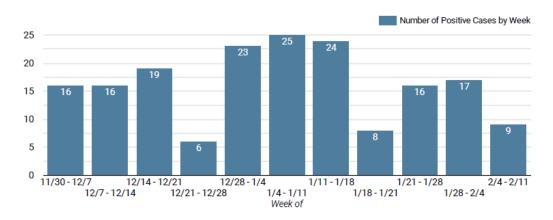


COVID-19 CASES: DISTRICT DASHBOARD

Dashboard outlines number of positive COVID-19 cases in the PSB school community by week and learning model. For the purpose of this dataset, weeks run **Friday to Thursday**.

Source: Public Schools of Brookline School Health Services Department

Number of Positive Cases, by Week



TOTAL PSB CASES TO DATE: 223

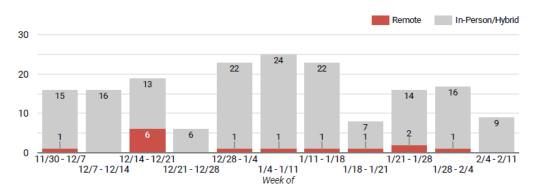
Remote: 25

Hybrid/In-Person: 198

Total among schoolbased students and staff:

219

Number of Positive Cases, by Week and Learning Model



TOTAL CLOSE CONTACTS*: 227 connected to 49 cases

Total positive cases with no close contacts* at

school: 162

*Close contacts are defined as anyone who has been within 6 feet of an positive case for at least 15 minutes during the infectious period.

Public Schools of Brookline Case Counts: By School

Data Last Updated: 2/12/21



COVID-19 CASES: SCHOOL BY SCHOOL DASHBOARD

The table outlines the number of positive COVID-19 cases by week and the number of cumulative cases for the year at each school. For the purpose of this dataset, weeks run **Friday to Thursday**.

Source: Public Schools of Brookline School Health Services Department

Number of Positive Cases, by School & District Offices (Week of 2/4 - 2/11)

School/Building	Weekly Positive Cases	Cumulative Positive Cases	Close Contacts	Cases with Close Contacts
BEEP @ Beacon	0	3	-	-
BEEP @ Clark	0	2	-	-
BEEP @ Lynch	0	1	-	-
BEEP @ Putterham	0	1	-	-
Baker	3	35	-	-
Driscoll	1	16	-	-
Florida Ruffin Ridley	0	18	-	-
Heath	0	10	-	-
Lawrence	2	18	1	1
Lincoln	0	21	-	-
Pierce	1	21	3	1
Runkle	0	13	-	-
Remote Learning Academy K-8	0	10	-	-
Brookline High School	2	51	2	1
Total*	9	220	6	3

^{*1} staff case shared between schools during week of 1.28-2.4

School/Building	Weekly Positive Cases	Cumulative Positive Cases	Close Contacts	Cases with Close Contacts
District Office	0	4	-	-

Public Schools of Brookline Case Counts: Students (By Grade) and Staff

Data Last Updated: 2/12/21



COVID-19 CASES: SCHOOL BY SCHOOL DASHBOARD

The table outlines the number of positive COVID-19 cases by week and the number of cumulative cases for the year at each school. For the purpose of this dataset, weeks run **Friday to Thursday**.

Source: Public Schools of Brookline School Health Services Department

Total Number of Positive Cases, by Grade Level and Staffing (Week of 2/4 - 2/11)

Grade Level	Weekly Positive Cases	Cumulative Positive Cases
BEEP/Pre-K	0	3
Kindergarten	1	18
1st Grade	1	18
2nd Grade	2	10
3rd Grade	0	9
4th Grade	1	8
5th Grade	0	10
6th Grade	0	7
7th Grade	0	11
8th Grade	0	17
9th Grade	0	6
10th - 12th Grade	0	31
Staff (School-Based)*	4	70
Staff (District Office)	0	4
Total	9	222

^{*1} staff case shared between schools during week of 1.28-2.4

Public Schools of Brookline Case Counts: Asymptomatic Testing Program Results

Data Last Updated: 2/12/21



COVID-19 CASES: SCHOOL BY SCHOOL DASHBOARD

The table outlines the number of positive COVID-19 cases by week and the number of cumulative cases for the year at each school. For the purpose of this dataset, weeks run **Friday to Thursday**.

Source: Public Schools of Brookline School Health Services Department

Staff Asymptomatic Testing Program Results

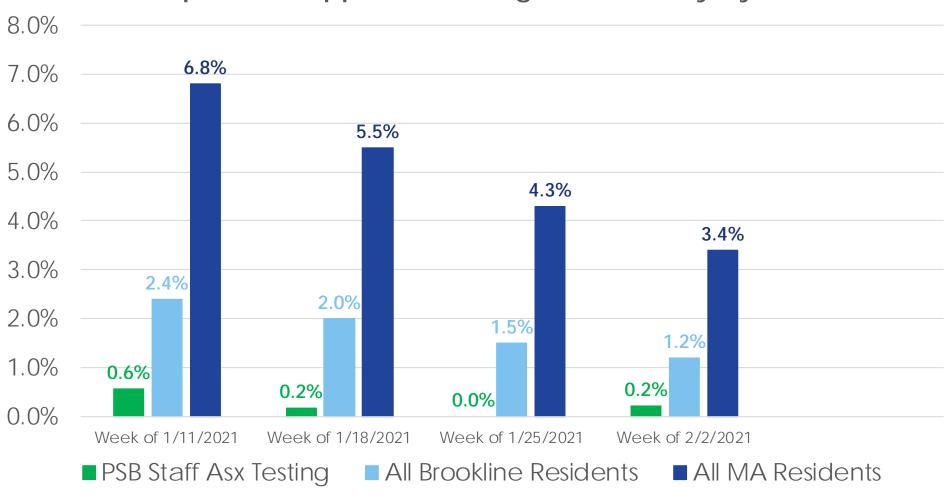
On Friday, January 15, 2021, the Public Schools of Brookline launched the voluntary staff COVID-19 PCR testing program for all "student-facing staff". **This program is strictly for asymptomatic staff.** This program is piloted by the Broad Institute, with tests collected and brought to each school. The turn-around time for these test results is within 24 hours.

Week of	Tests Processed	Positive Results	Negative Results	TNP (Tests Not Processed)	Positvity %
1/11 - 1/15	175	1	174	5	0.57%
1/18 - 1/22	571	1	570	15	0.18%
1/25 - 1/29	612	0	612	11	0%
2/2-2/4	447	1	446	10	0.22%
Total	1,805	3	1,802	41	0.17%

- 1,805 total tests processed over four weeks
 - 3 positives and 1,802 negatives
 - = 0.17% cumulative avg. test positivity

Public Schools of Brookline Case Counts: Asymptomatic Testing Program Results

Comparison - Approximate Avg. Test Positivity by Week



Brand New CDC Guidance Today

- Five key mitigation strategies to achieve "limited to no transmission in the schools":
 - Universal and correct use of masks
 - Physical distancing*
 - Handwashing and respiratory etiquette
 - Cleaning and maintaining healthy facilities
 - Contact tracing in combination with isolation and quarantine, in collaboration with the health department
- Also helpful:
 - Ventilation
 - Surveillance testing

Brand New CDC Guidance Today, ctd.

Schools providing in-person instruction should prioritize two mitigation strategies:

- 1. Universal and correct use of masks should be required, at all levels of community transmission.
- Physical distancing (at least 6 feet) should be maximized to the greatest extent possible. In hybrid instruction, scheduling should be planned to ensure physical distancing.

Brand New CDC Guidance Today, ctd.

Core principle for physical distancing: Establish school policies and implement structural interventions to promote physical distance of at least 6 feet between people. In areas with substantial and high community transmission, physical distancing is essential in providing protection, minimizing risk of exposure, and limiting the number of close contacts among cases. The interventions presented in this section provide examples of ways to promote physical distancing and alternatives when physical distancing is not always feasible.

Brand New CDC Guidance, ctd.

Table 1. CDC Indicators and Thresholds for Community Transmission of COVID-19¹

Indicator	Low Transmission Blue	Moderate Transmission Yellow	Substantial Transmission Orange	High Transmission Red
Total new cases per 100,000 persons in the past 7 days ²	0-9	10-49	50-99	≥100
Percentage of NAATs that are positive during the past 7 days ³	<5.0%	5.0%-7.9%	8.0%-9.9%	≥10.0%

¹If the two indicators suggest different levels, the actions corresponding to the higher threshold should be chosen. County-level data on total new cases in the past 7 days and test percent positivity are available on the County View tab in <u>CDC's COVID Data Tracker</u>.

³Percentage of positive diagnostic and screening NAATs during the last 7 days is calculated by dividing the number of positive tests in the county (or other administrative level) during the last 7 days by the total number of tests resulted over the last 7 days. Additional information can be found on the <u>Calculating Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Laboratory Test Percent Positivity: CDC Methods and Considerations for Comparisons and Interpretation webpage.</u>

²Total number of new cases per 100,000 persons within the last 7 days is calculated by adding the number of new cases in the county (or other community type) in the last 7 days divided by the population in the county (or other community type) and multiplying by 100,000.

Brand New CDC Guidance, ctd.

Table 2. Recommended Implementation of Mitigation Strategies and K-12 School Learning Modes by Level of Community Transmission for Schools That Do Not Implement Expanded Screening Testing

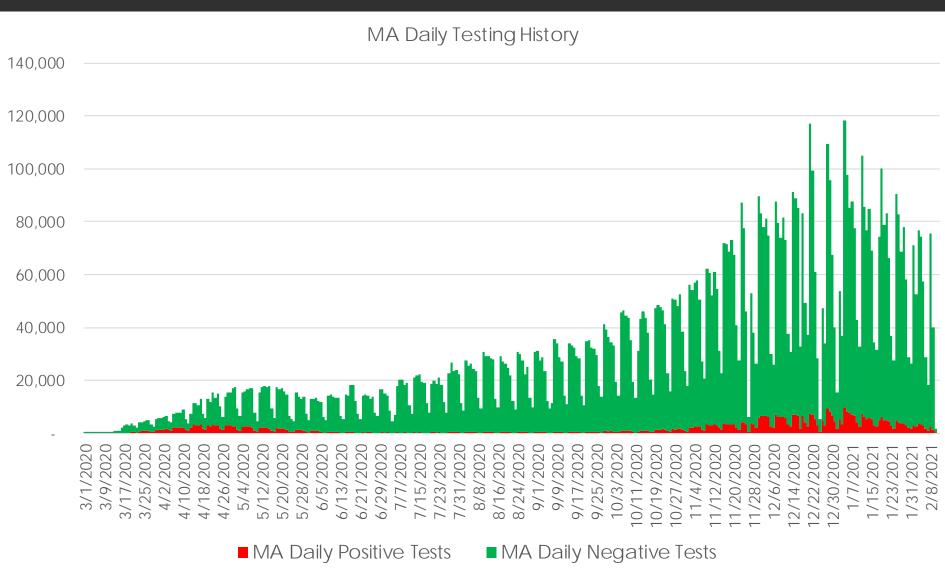
Low Transmission ¹ Blue	Moderate Transmission Yellow	Substantial Transmission Orange	High Transmission Red		
All schools implement 5 key mitigation strategies: Universal and correct use of masks required; physical distancing; handwashing and respiratory etiquette; cleaning and maintaining healthy facilities; contact tracing in combination with isolation and quarantine. Diagnostic testing ² : Symptomatic students, teachers, and staff and close contacts referred for diagnostic testing					
		Elementary schools in hyb reduced attendance ⁴ Physical distancing of 6 fee			
Physical distancing of 6 feet or more to the greatest extent possible ³		Middle and high schools in hybrid learning mode or reduced attendance Physical distancing of 6 feet or more is required	Middle and high schools in virtual only instruction unless they can strictly implement all mitigation strategies, and have few cases; schools that are already open for inperson instruction can remain open, but only if they strictly implement mitigation strategies and have few cases ⁵		
Sports and extracurricular activities	Sports and extracurricular activities	· .	Sports and extracurricular activities are virtual only		
occur; physical distancing of 6 feet or more to the		they can be held outdoors, with physical distancing of 6 feet or more	activities are virtual Only		

Source: https://www.cdc.gov/coronavirus/2019-ncov/downloads/community/schools-childcare/K-12-Operational-

Strategy-2021-2-12.pdf

Appendix - For Reference As Needed

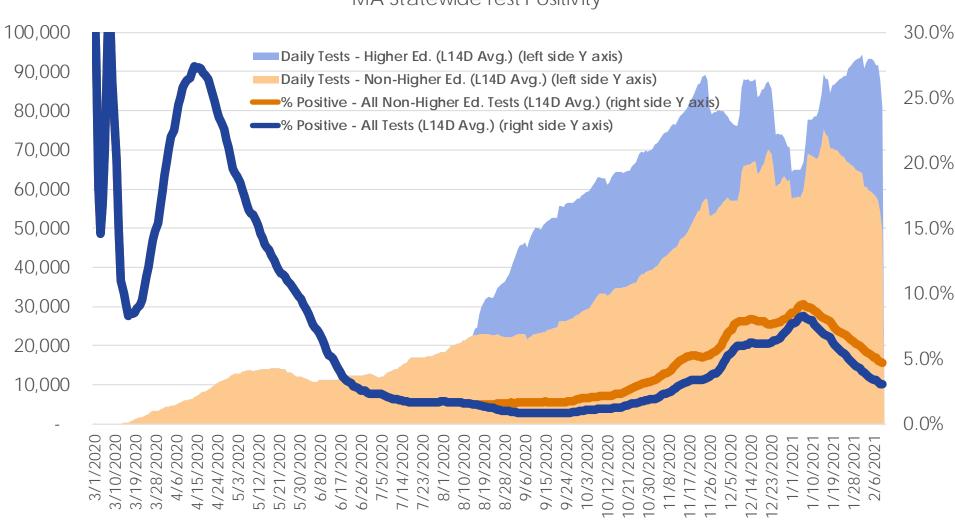
Statewide Test Results by Day



Data source: https://www.mass.gov/info-details/covid-19-response-reporting

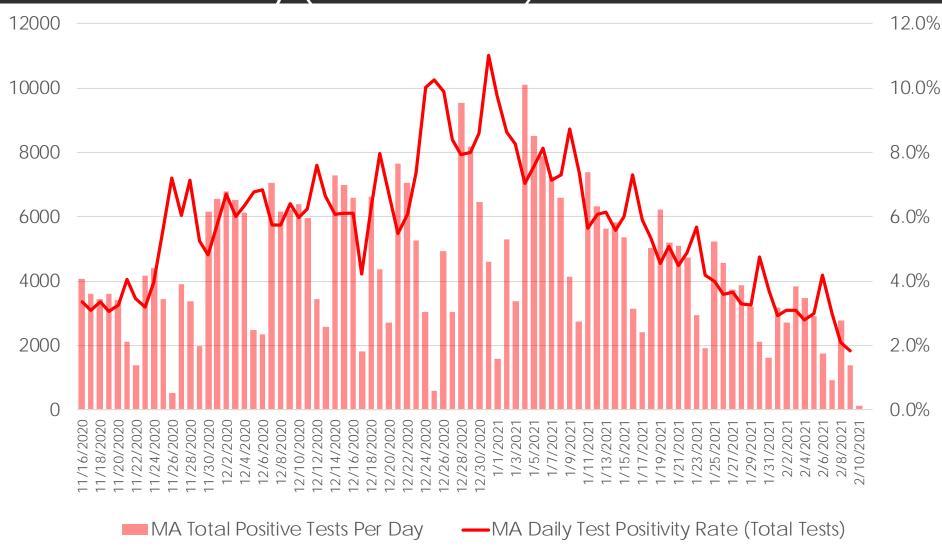
Trends: Test Positivity and Testing Volume (Statewide)

MA Statewide Test Positivity



Data source: https://www.mass.gov/info-details/covid-19-response-reporting

Trends: Daily Positive Test Counts and Positivity (Statewide)



Data source: https://www.mass.gov/info-details/covid-19-response-reporting

MA DESE Guidance - In-Person/Remote

https://www.doe.mass.edu/covid19/on-desktop/interpreting-dph-metrics.html

Districts are expected to prioritize in-person learning across all colorcoded categories, unless there is suspected in-school transmission, in accordance with DESE's Guidance on Responding to COVID-19 **Scenarios.** Transmission in schools is defined as spread of the virus between people during interactions in the school setting. While there have been positive COVID-19 cases of staff and students in schools, most of these infections have occurred outside of the school setting. If there is suspected in-school transmission, then the affected classrooms or schools should temporarily shift to remote learning, in accordance with DESE's Guidance on Responding to COVID-19 Scenarios. Classrooms and schools should reopen after appropriate mitigation strategies have been implemented, as determined in consultation with the local board of health, DPH, and DESE.

MA DESE Guidance – In-Person/Remote

https://www.doe.mass.edu/covid19/on-desktop/interpreting-dph-metrics.html

- Districts and schools in communities designated gray, green, or yellow are expected to have students learning fully in-person, if feasible. A hybrid model should be used only if there is no other way to meet health and safety requirements. Parents and caregivers will continue to have the option to choose a district's remote learning program for their children.
- Schools in red communities should implement hybrid models, while maximizing in-person learning time for high-needs students.

. . .

Fully remote instructional models should be implemented only as a last resort in classrooms, schools, or districts when there is suspected in-school transmission or a significant municipal outbreak, in accordance with DESE's Guidance on Responding to COVID-19 Scenarios. Classrooms and schools should reopen after appropriate mitigation strategies have been implemented, as determined in consultation with the local board of health, DPH, and DESE.