PUBLIC SCHOOLS of **BROOKLINE**

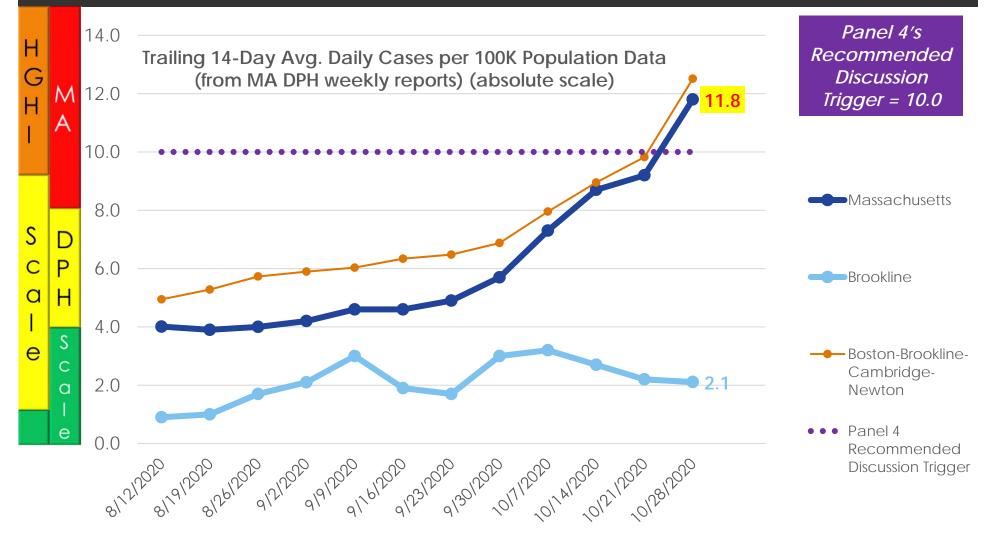
Advisory Panel 4: <u>Public Health, Safety, & Logistics</u>

Metrics Review

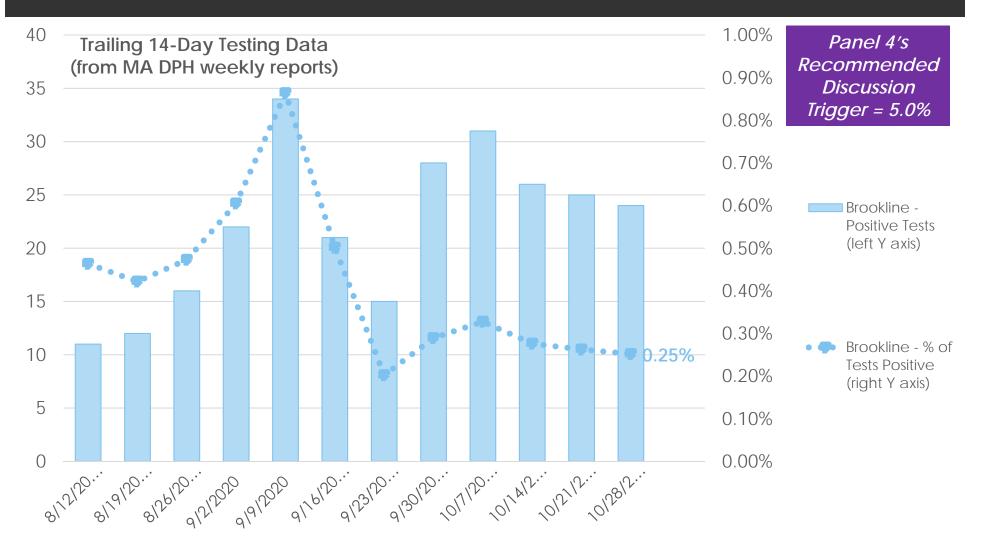
October 30, 2020

Benchmark	Status
Avg. daily new case count in Brookline = <10 (last 14 days)	2.1
Avg. daily new case count in Massachusetts = <10 (last 14 days)	11.8
Avg. test positivity rate in Brookline = <5.0% (last 14 days)	0.25%
Avg. test positivity rate in Massachusetts = <5.0% (last 14 days)	1.55%

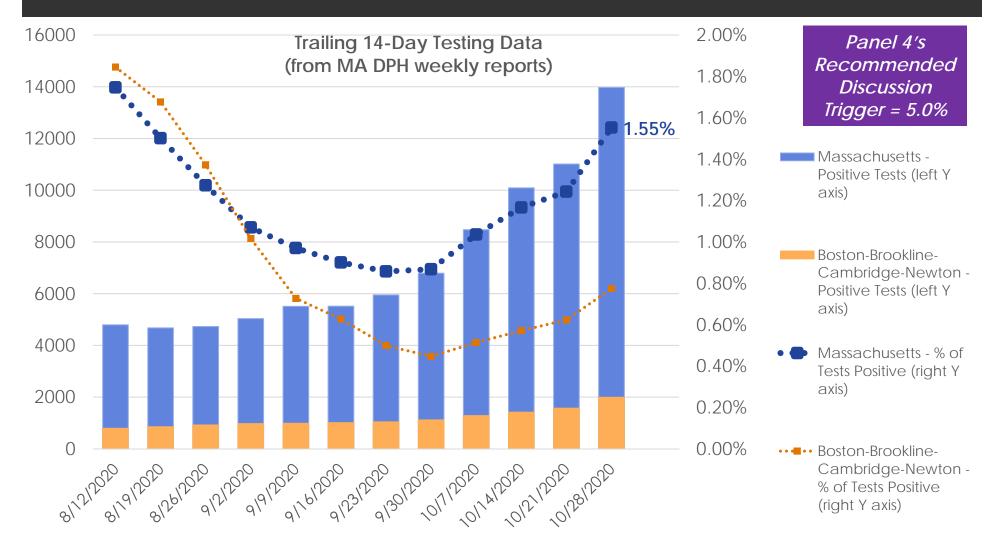
If any two of these four thresholds are exceeded, a more focused discussion should take place about potential pause, roll-back, or other modification of in-person PSB operations.



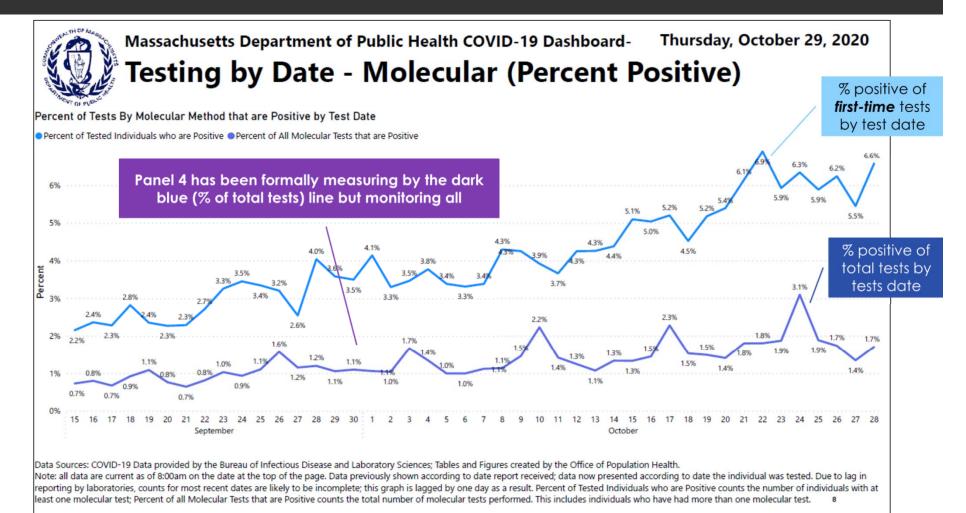
Sources: https://www.mass.gov/info-details/covid-19-response-reporting#covid-19-weekly-public-health-report-; https://globalepidemics.org/key-metrics-for-covid-suppression/



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Roughly 35% of MA residents have now been tested at least once and, thus, are excluded from DPH's "first-time" measure going forward.

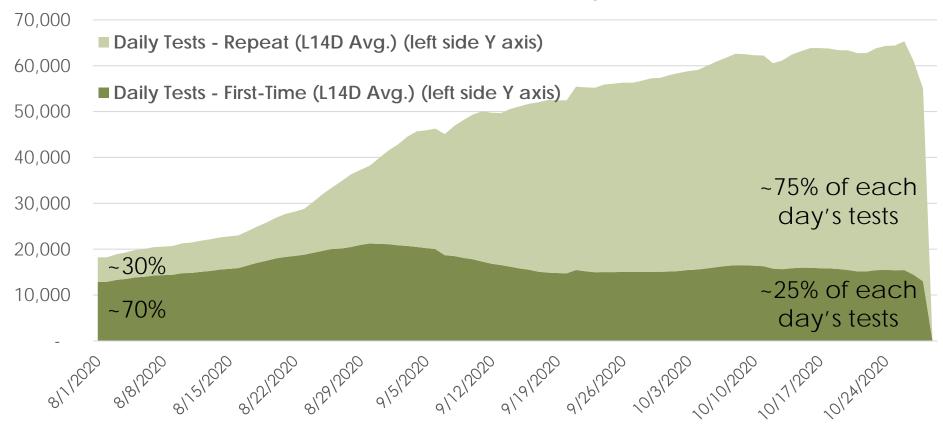
Source: https://www.mass.gov/doc/covid-19-dashboard-october-29-2020/download

MA Statewide Test Positivity



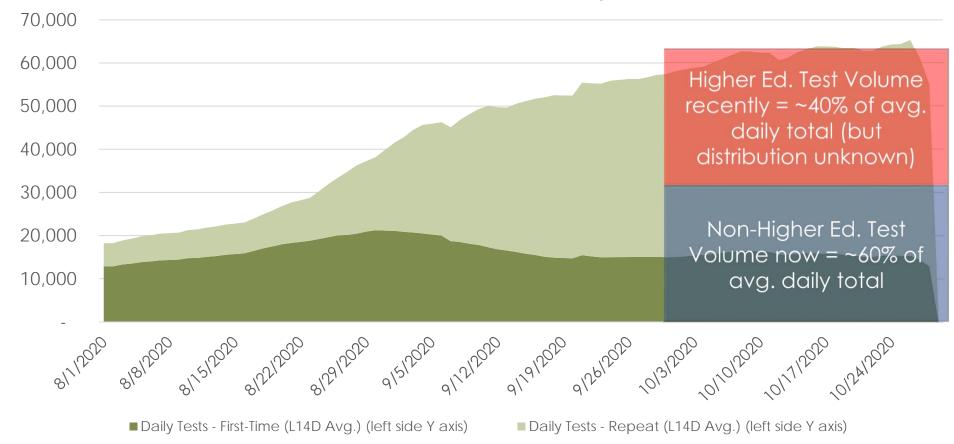
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MA Statewide Test Positivity

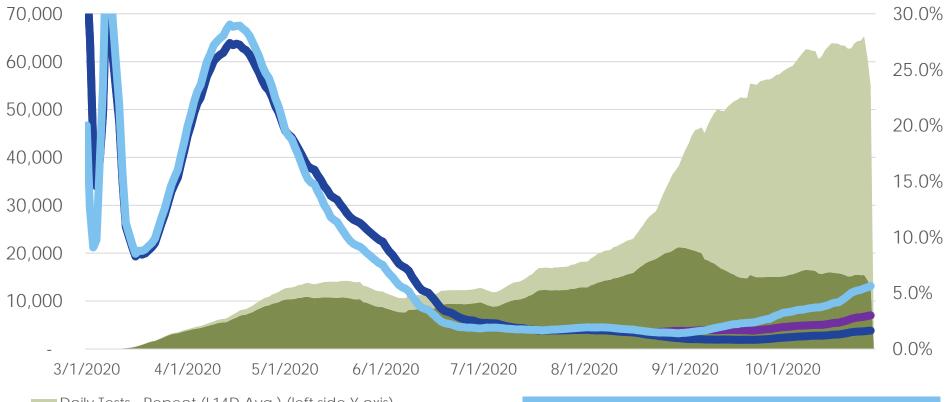


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MA Statewide Test Positivity



MA Statewide Test Positivity



Daily Tests - Repeat (L14D Avg.) (left side Y axis)

Daily Tests - First-Time (L14D Avg.) (left side Y axis)

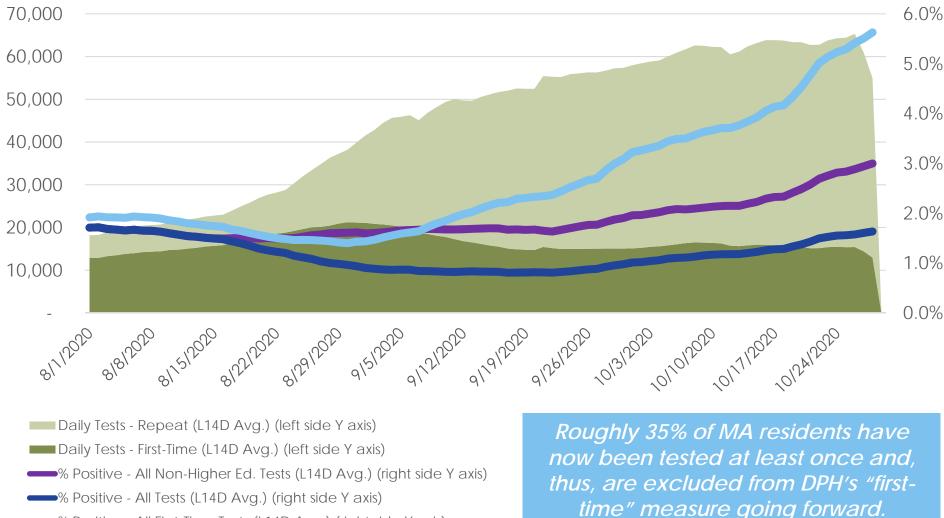
% Positive - All Non-Higher Ed. Tests (L14D Avg.) (right side Y axis)

Positive - All Tests (L14D Avg.) (right side Y axis)

Positive - All First-Time Tests (L14D Avg.) (right side Y axis)

Roughly 35% of MA residents have now been tested at least once and, thus, are excluded from DPH's "firsttime" measure going forward.

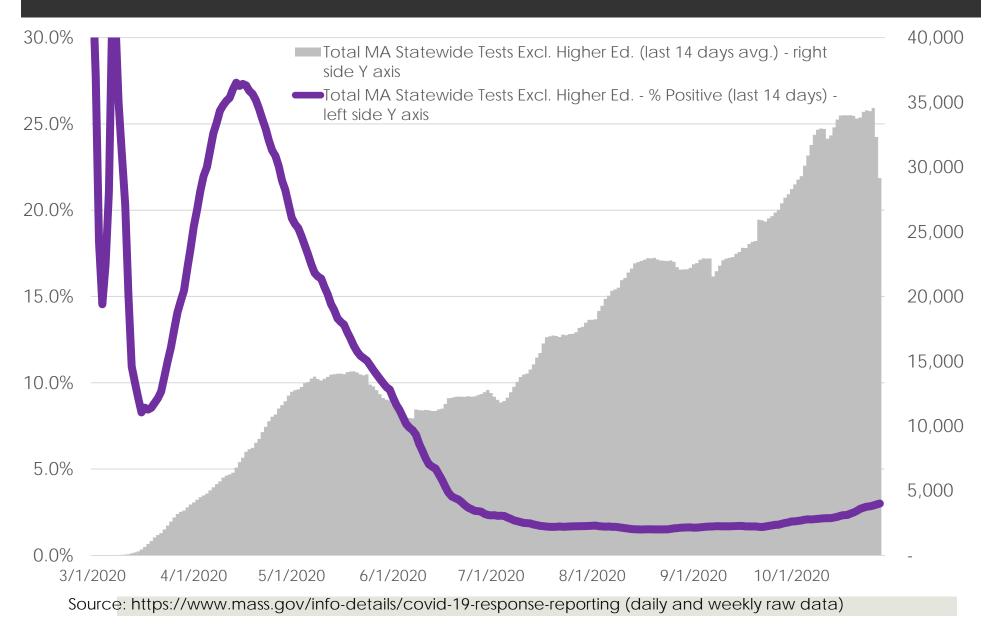
MA Statewide Test Positivity



Positive - All First-Time Tests (L14D Avg.) (right side Y axis)

.) (right side Y axis)

Statewide Non-Higher Ed. Testing



Statewide Non-Higher Ed. Testing

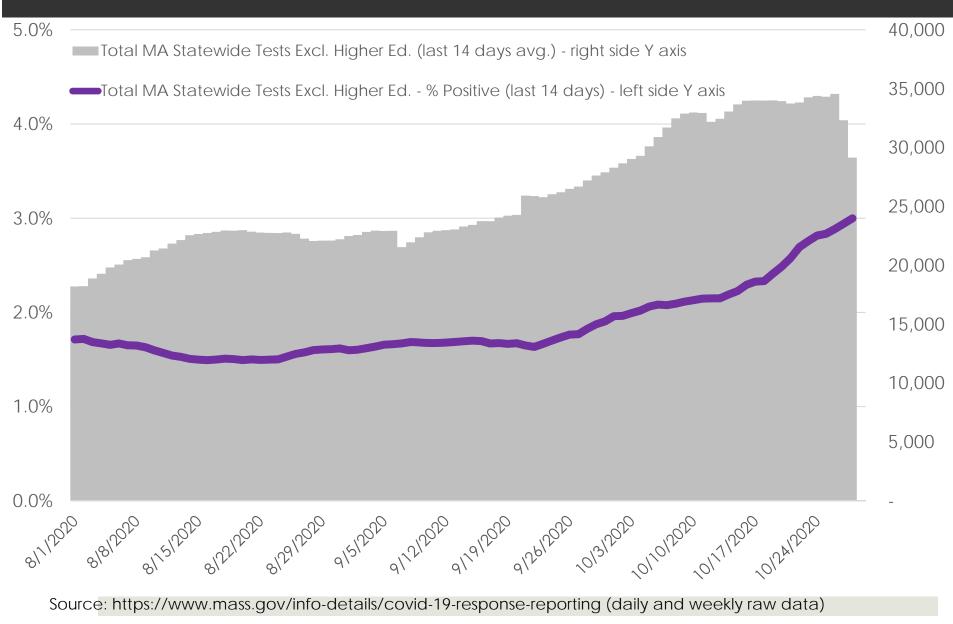
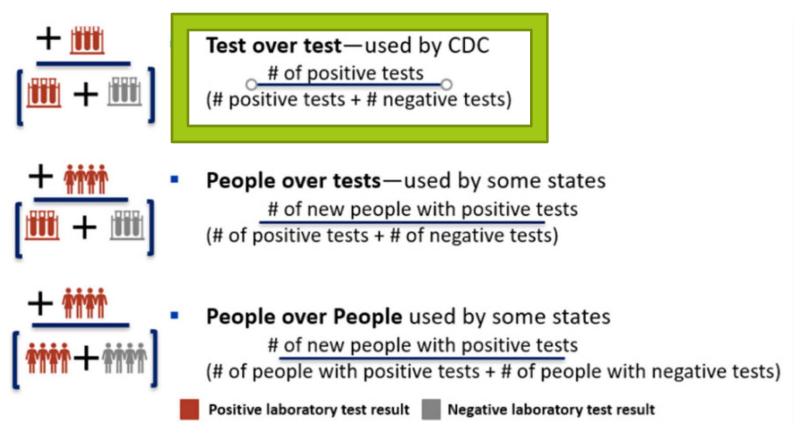


Figure 1: Three ways in which percent positivity can be calculated for COVID-19 laboratory tests



Read Text Equivalent (for Section 508 access).

Challenges with "% of people positive"

- First, it's a metric where the 5% benchmark may no longer apply. That threshold came from multiple organizations' recommendations* for a different metric, the % positive tests. We have no reason to assume 5% is the relevant cut-point here, and it's unclear what it should be.
- More problematic is that the "% people positive" rate is no longer a snapshot in time – it either captures the long-term total effect of the pandemic, or only looks at new people being tested, who are likely quite different than the general population and people who are re-testing
 - Who hasn't been tested so far and decides to get tested now?
 - Likely someone with more severe symptoms, meaning higher positive test rates
 - We re-ran state numbers to see what this pattern looks like

* World Health Organization and American Federation of Teachers