Covid-19 Health Metrics Littleton, MA

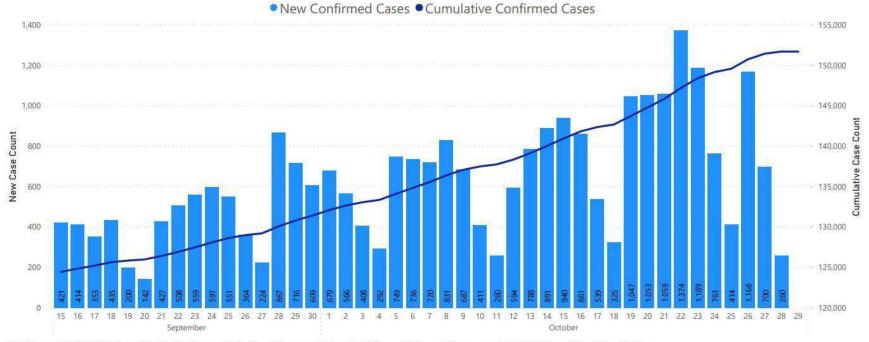
School Committee 10/29/2020

Massachusetts Department of Public Health COVID-19 Dashboard-

Thursday, October 29, 2020

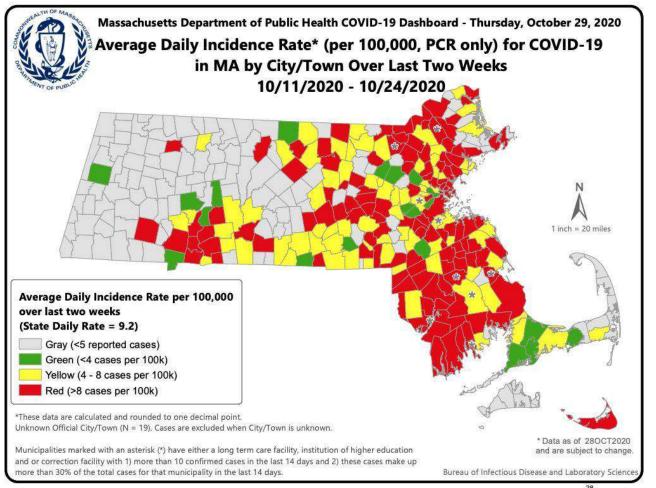
Daily and Cumulative Confirmed Cases

Confirmed COVID-19 Cases To Date 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; Data previously shown according to date report received; data now presented according to date the individual was tested. Due to lag in reporting by laboratories, counts for most recent dates are likely to be incomplete.



Town Groupings

- Littleton
- Border Towns
 - o Littleton, plus Acton, Ayer, Boxborough, Groton, Harvard, and Westford

Surrounding Communities

Border Towns, plus Ashby, Bedford, Berlin, Boylston, Clinton, Hudson, Leominster, Lincoln, Lowell,
 Marlborough, Northborough, Shrewsbury, Southborough, Sterling, Sudbury, Townsend, Tyngsboro, Wayland,
 West Boylston, Westborough, Weston

495 Belt

- Contiguous Communities, plus Ashby, Bedford, Berlin, Boylston, Clinton, Hudson, Leominster, Lincoln, Lowell, Marlborough, Northborough, Shrewsbury, Southborough, Sterling, Sudbury, Townsend, Tyngsboro, Wayland, West Boylston, Westborough, Weston
- Middlesex County
- Commonwealth of Massachusetts

Average daily incidence rate per 100,000 population

- Data Sources:
 - Weekly COVID-19 Public Health Report:
 https://www.mass.gov/info-details/covid-19-response-reporting
 - Where a town had <5 cases, used the Rate of Average Daily Cases per 100k and population to estimate number of cases
 - Population data from UMass Donahue Institute (2018)

Calculation:

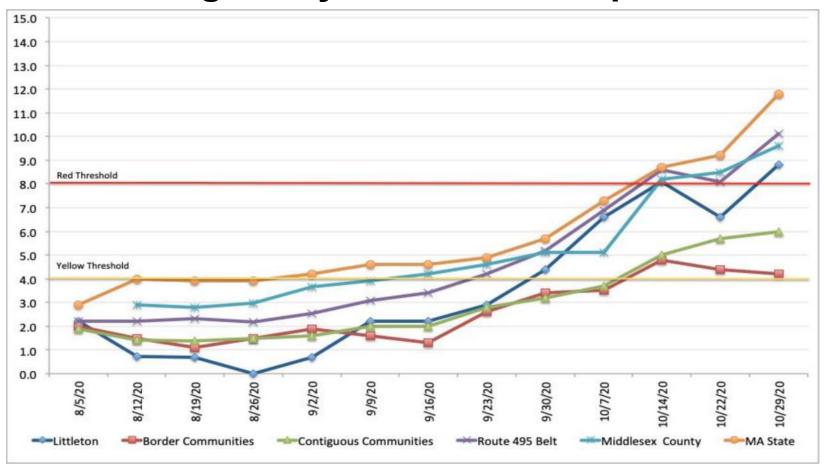
Average Daily Incidence Rate =

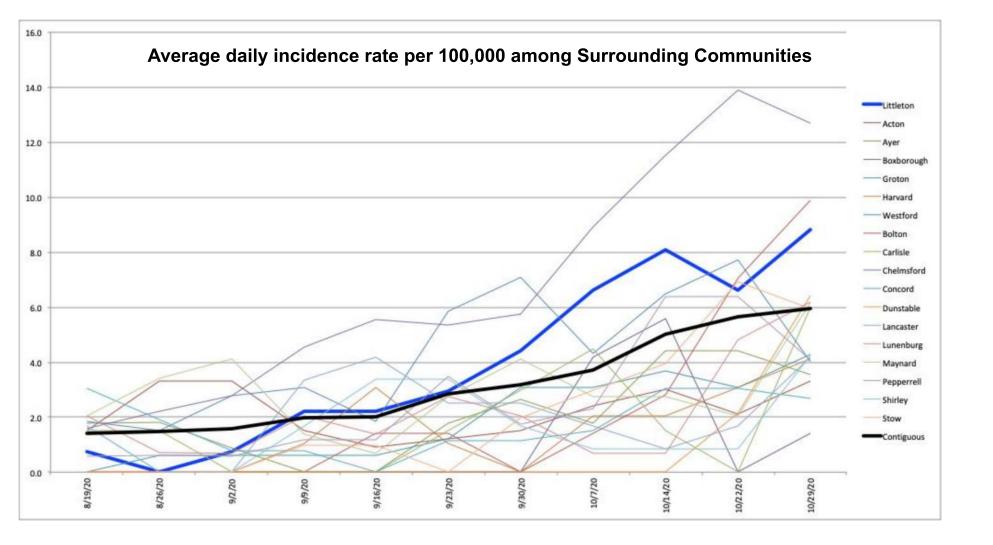
((number of cases diagnosed in last 14 days / 14 days) / population) *100,000

Average daily incidence rate per 100,000

	Average daily case rate per 100,000 over last two weeks	Trend (compared to 2 weeks ago)	Threshold
MA State	11.8	Higher (+3.1)	Red
Middlesex County	9.6	Higher (+1.4)	Red
495 Belt	10.1	Higher (+1.6)	Red
Surrounding Communities	6.0	Higher (+0.9)	Yellow
Border Communities	4.2	Lower (-0.6)	Yellow
Littleton	8.8	Higher (+0.7)	Red
Data from October 29, 2020 i	report	,	,

Trend: Average daily incidence rate per 100,000





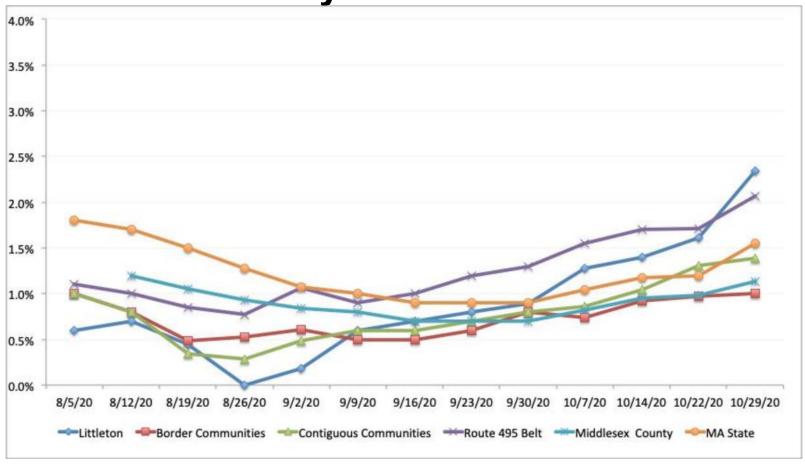
Total Test Positivity

- Data Source:
 https://www.mass.gov/info-details/covid-19-response-reporting
- Percent Positivity = total positive tests / total number of tests conducted
- This measure includes people who are tested more than one time, such as for surveillance testing for colleges, healthcare workers, and businesses

Percent Positivity

	Total Molecular Tests conducted (last 14 days)	Percent Positivity	Trend (compared to 2 weeks ago)
MA State	899,970	1.55%	Higher (+0.38%)
Middlesex County	234,060	1.13%	Stable (+0.18%)
495 Belt	52,353	2.07%	Higher (+0.37%)
Surrounding Communities	15,722	1.39%	Higher (+0.35%)
Border Communities	6469	1.00%	Higher (+0.37%)
Littleton	725	2.34%	Higher (+0.94%)
Data from October 29, 2020 r	eport	'	'

Trend: Test Positivity



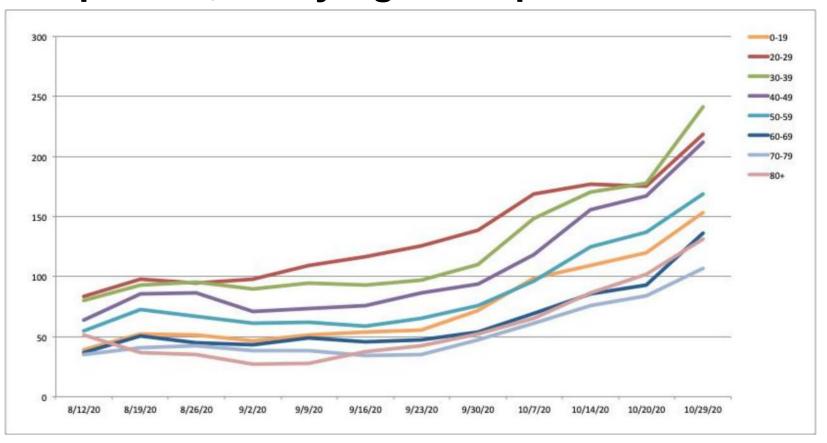
Covid-19 Health Metrics Summary

- Data as of October 29, 2020 report
- MA State is red
 - Rate (11.8) and test positivity (1.55%) are trending higher
- Middlesex County is red
 - Rate (9.6) is higher, test positivity (1.13%) is stable
- Average daily incidence rate for our local area: 4.2 to 10.1 per 100,000
 - Littleton is red
 - 12 cases in the last 14 days
 - Average daily incidence rate per 100,000 = 8.8
 - Percent test positivity = 2.34%
 - Rates and test positivity continue to trend higher
 - Border and Surrounding Communities are yellow
 - Rates (4.2 6.0) and testing (1.00 1.39%) are trending higher
 - 495 Belt is red
 - Rate (10.1) and testing (2.07%) are trending higher

Contact Tracing and Clusters

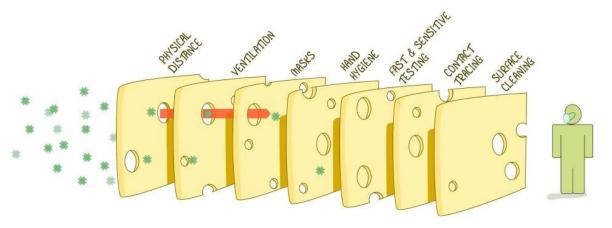
- DPH started to publish details of contact tracing in the weekly report
- 80% of the clusters connected to household transmission
- Other exposure settings include: social gatherings, restaurants/food establishments, retail & services, long term care facilities/senior living
- Gov. Baker indicated (10/27/20) that cases identified in schools were mainly arising from exposures *outside* of the school
- Littleton is trending higher than our surrounding communities
- What can we as individuals do to slow Littleton's rising rates and help protect our schools to keep them open?

Rates per 100,000 by Age Group



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.

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ASED ON THE SWISS CHEESE MODEL OF ACCIDENT CAUSATION, BY JAMES T REASON, 199(

VERSION 1.3

Important to take precautions, even at home

- Wear a mask when with friends/family outside your household
- Meet outside
- Avoid large groups
- Quarantine if you/household member have a known exposure