

Boston Wastewater Epidemiology Report

Updated: 20-May-2025 | **Data Complete Through**: 11-May-2025



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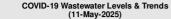
A Note About These Reports

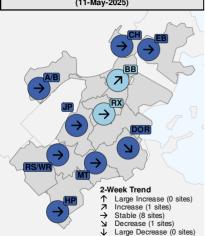


The laboratory that tests Boston's wastewater changed on August 1, 2024. Because of differences in the methods used at the old laboratory and the new one, data may not be comparable before and after the change. The change is marked with a vertical red line line on figures in this report. BPHC cautions against drawing conclusions by comparing data to the left and right of this line. BPHC closely monitors the data and the methods used to communicate these results, and presents the best understanding of the data in these reports. A report with more information about the lab change will be made available on the BPHC Wastewater Monitoring web page.

Neighborhood Levels and Trends







COVID-19 Level	8 sites	2 sites			
(# sites)	Very Low	Low	Moderate	High	Very High

BOSTON CITYWIDE COVID-19 LEVEL & TRENDS

COVID-19 LEVEL

2-WEEK TRENDS

Very Low

286 copies/mL samplesthrough 11-May-2025



-58 copies/mL (-17%)

NEIGHBORHOOD SITES COVID-19 LEVEL & TRENDS

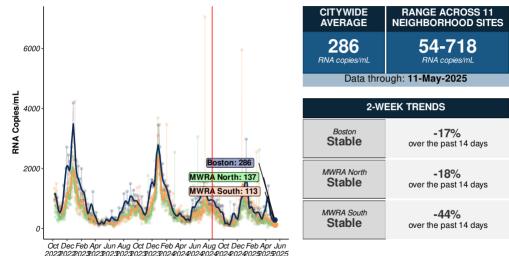
Level	Neighborhood/Site		Trend
Low	Back Bay (BB)	7	Increase
LOW	Roxbury (RX)	\rightarrow	Stable
	Allston/Brighton (A/B)	\rightarrow	Stable
	Dorchester (DOR)	Z	Decrease
	Mattapan (MT)	\rightarrow	Stable
Very Low	Jamaica Plain (JP)	\rightarrow	Stable
very Low	Roslindale/West Roxbury (RS/WR)	\rightarrow	Stable
	Charlestown (CH)	\rightarrow	Stable
	East Boston (EB)	\rightarrow	Stable
	Hyde Park (HP)	\rightarrow	Stable

For additional details see:

- . Results by Neighborhood
- Detailed Neighborhood Levels and Trends Table
- Trend and Level Category Definitions

COVID-19 Citywide Overview and Trends

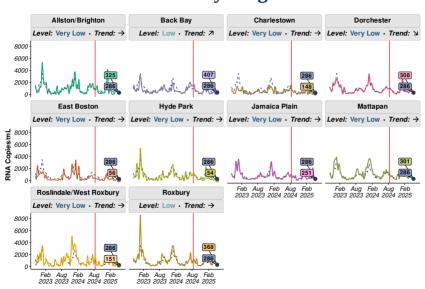




 $\textbf{Updated: } 20-\text{May-}2025 \mid \textbf{Samples through: } 11-\text{May-}2025 (BPHC); 13-\text{May-}2025 (MWRA) \mid \textbf{MWRA Data: } \\ \underline{\textbf{https://www.mwra.com/biobot/biobotdata.htm}}$

BPHC Trend Overview by Neighborhood





For each neighborhood, colored line and textbox shows the smoothed trend and most recent value in that neighborhood:

The dotted blue line and dark blue text box in each panel shows the trend and most recent value across all Boston sites weighted by population.

The vertical red line marks the date of August 1, 2024, when the laboratory that tests Boston's wastewater changed.

To see details and interpretation of these results for an individual neighborhood see Results by Neighborhood.

Results by Neighborhood



- Allston-Brighton (A/B)
- Back Bay (BB)
- Charlestown (CH)
- Dorchester (DOR)
- East Boston (EB)
- Hyde Park (HP)
- Jamaica Plain (JP)
- Mattapan (MT)
- Roslindale/West Roxbury (RS/WR)
- Roxbury (RX)
- South Boston (SB)

Allston/Brighton

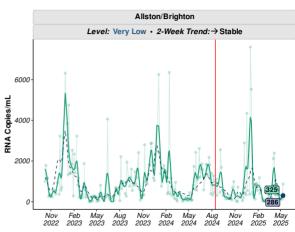


Level: Very Low

- Average value in A/B over the past week: 325 copies/mL.
- This value is very low compared to past values and <u>similar</u> than the citywide average (<u>286</u> copies/mL).

Trend: → Stable

- Over the past two weeks, values in <u>A/B</u> are <u>stable</u>.
- Change compared to two weeks ago: +128 copies/mL (+65%).



Updated: 20-May-2025 | Samples through: 11-May-2025 (A/B);

Back Bay

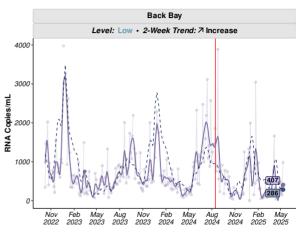


Level: Low

- Average value in <u>BB</u> over the past week: 407 copies/mL.
- This value is <u>low</u> compared to past values and <u>similar</u> than the citywide average (<u>286</u> copies/mL).

Trend: **↗ Increase**

- Over the past two weeks, values in <u>BB</u> are <u>increasing</u>.
- Change compared to two weeks ago: +187 copies/mL (+85%).



Updated: 20-May-2025 | Samples through: 11-May-2025 (BB):

Charlestown

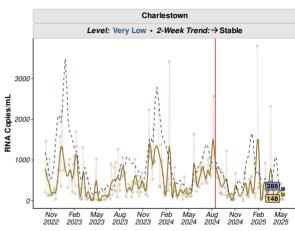


Level: Very Low

- Average value in <u>CH</u> over the past week: 148 copies/mL.
- This value is very low compared to past values and similar than the citywide average (286 copies/mL).

Trend: → Stable

- Over the past two weeks, values in <u>CH</u> are <u>stable</u>.
- Change compared to two weeks ago: <u>-97</u> copies/mL (-40%).



Updated: 20-May-2025 | Samples through: 11-May-2025 (CH);

Dorchester

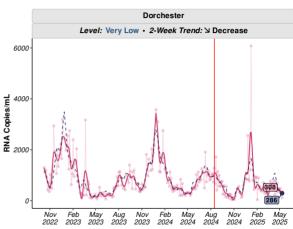


Very Low Level:

- Average value in **DOR** over the past week: 308 copies/mL.
- This value is very low compared to past values and similar than the citywide average (286 copies/mL).

Trend: > Decrease

- Over the past two weeks, values in DOR are decreasing.
- Change compared to two weeks ago:
 - -166 copies/mL (-35%).



Updated: 20-May-2025 | Samples through: 11-May-2025 (DOR):

East Boston



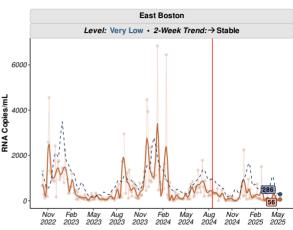
Level: Very Low

- Average value in <u>EB</u> over the past week: 56 copies/mL.
- This value is very low compared to past values and similar than the citywide average (286 copies/mL).

Trend: → Stable

- Over the past two weeks, values in <u>EB</u> are <u>stable</u>.
- Change compared to two weeks ago:

 -15 copies/mL (-21%).



Updated: 20-May-2025 | Samples through: 11-May-2025 (EB);

Hyde Park

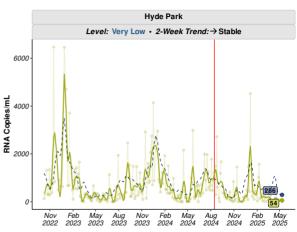


Level: Very Low

- Average value in <u>HP</u> over the past week: 54 copies/mL.
- This value is very low compared to past values and <u>similar</u> than the citywide average (286 copies/mL).

Trend: → Stable

- Over the past two weeks, values in <u>HP</u> are <u>stable</u>.
- Change compared to two weeks ago: +21 copies/mL (+65%).



Updated: 20-May-2025 | Samples through: 11-May-2025 (HP);

Jamaica Plain

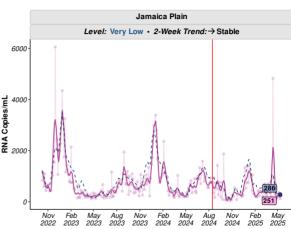


Level: Very Low

- Average value in <u>JP</u> over the past week: 251 copies/mL.
- This value is very low compared to past values and <u>similar</u> than the citywide average (286 copies/mL).

Trend: → Stable

- Over the past two weeks, values in <u>JP</u> are <u>stable</u>.
- Change compared to two weeks ago: +131 copies/mL (+110%).



Updated: 20-May-2025 | Samples through: 11-May-2025 (JP);

Mattapan



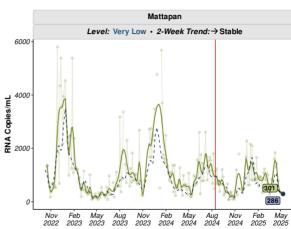
Level: Very Low

- Average value in <u>MT</u> over the past week: 301 copies/mL.
- This value is very low compared to past values and <u>similar</u> than the citywide average (286 copies/mL).

Trend: → Stable

- Over the past two weeks, values in <u>MT</u> are <u>stable</u>.
- Change compared to two weeks ago:

 -101 copies/mL (-25%).



Updated: 20-May-2025 | Samples through: 11-May-2025 (MT);

Roslindale/West Roxbury

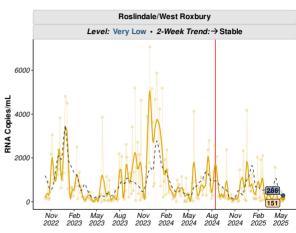


Level: Very Low

- Average value in <u>RS/WR</u> over the past week: <u>151</u> copies/mL.
- This value is very low compared to past values and similar than the citywide average (286 copies/mL).

Trend: → Stable

- Over the past two weeks, values in RS/WR are <u>stable</u>.
- Change compared to two weeks ago: +74 copies/mL (+96%).



Updated: 20-May-2025 | Samples through: 11-May-2025 (RS/WR);

Roxbury

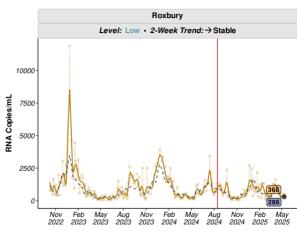


Level: Low

- Average value in <u>RX</u> over the past week: 368 copies/mL.
- This value is <u>low</u> compared to past values and <u>similar</u> than the citywide average (<u>286</u> copies/mL).

Trend: → Stable

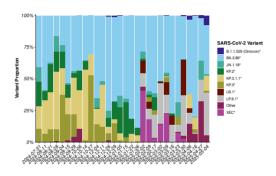
- Over the past two weeks, values in <u>RX</u> are <u>stable</u>.
- Change compared to two weeks ago: +42 copies/mL (+13%).



Updated: 20-May-2025 | Samples through: 11-May-2025 (RX);

Percent Variant Lineages (Citywide)





Influenza Detections in Wastewater



Samples
Positive for Flu 0 positive 1 positive 2 positive 3 positive No Samples Collected

Allston/Brighto Charlestown East Boston

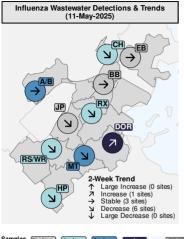
> Back Bay Jamaica Plai Dorchester

> > Mattapa

Hyde Park

Doybury

Boelindale/Meet Boybury



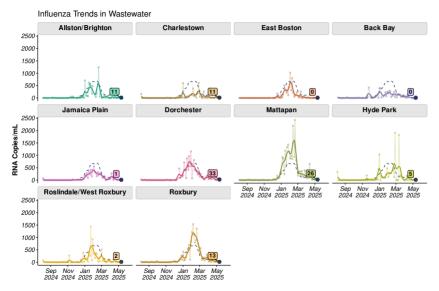


This map depicts the number of times influenza virus was detected in wastewater at the 3 most-recent samples (approximately the past week) at each of the neighborhood sampling locations.

19/28

Influenza Trends in Wastewater by Neighborhood



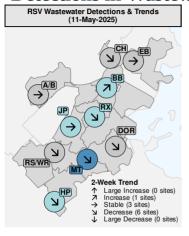


For each neighborhood, colored line and textbox shows the smoothed trend and most recent value in that neighborhood:

The dotted blue line in each panel shows the trend and most recent value across all Boston sites weighted by population.

RSV Detections in Wastewater





Samples Positive for RSV (Past 3 Samples)

0 nositive

1 positive

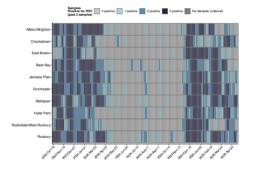
2 positive

0 sites

3 positive No Samples Collected

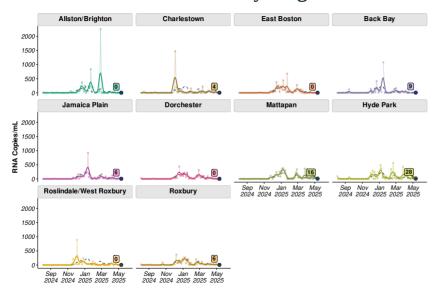
RSV = Respiratory Syncytial Virus

This man depicts the number of times RSV was detected in wastewater at the 3 most-recent samples (approximately the past week) at each of the neighborhood sampling locations.



RSV Trends in Wastewater by Neighborhood





For each neighborhood, colored line and textbox shows the smoothed trend and most recent value in that neighborhood:

The dotted blue line in each panel shows the trend and most recent value across all Boston sites weighted by population.

COVID-19 Wastewater Level and Trend Category Definitions



Concentration Levels

Concentration	Concentration Value	
Level	(Copies/mL)	
Very High	>1,400	
High	1,050-1,400	
Moderate	700-1,050	
Low	350-700	
Very Low	≤350	
Very Low	≤350	

2-Week Trend Categories

	Trend Category	Trend Value (Copies/mL)
\uparrow	Large Increase	>+500
7	Increase	+150 to +500
\rightarrow	Stable	-150 to +150
7	Decrease	-500 to -150
\	Large Decrease	≤-500

Level: Very High



Wastewater viral levels in your neighborhood indicate **very high risk** of COVID-19 infection.

Based on this level, BPHC urgently recommends the following practices to prevent COVID-19 in your community:

- Wear a high-quality mask or respirator
- If you are at high risk of getting very sick, consider limiting non-essential indoor activities in public where you could be exposed.
- If you have close contact with someone at high risk of getting very sick, consider self-testing to detect infection before contact, and consider wearing a high-quality mask when indoors with them

- Stay up-to-date on vaccinations.
- Recognize the <u>symptoms</u> of COVID-19 and seek testing and possible treatment if you get sick
- Stay home when sick and avoid contact with others who are sick
- Improve indoor airflow and ventilation
- Wash your hands often and cover coughs and sneezes
- Follow CDC recommendations for <u>preventing spread</u> if you have COVID-19

- Find a <u>vaccination clinic</u> in your neighborhood
- Pick up a <u>free at-home test kit</u> in your neighborhood
- Find <u>treatment</u> for COVID-19 including <u>free telehealth</u> and <u>in home treatment</u>
- Call or visit the Mayor's Health Line
- Learn more about COVID-19 and find additional resources: COVID-19 in Boston

Level: High



Wastewater viral levels in your neighborhood indicate high risk of COVID-19 infection.

Based on this level, BPHC strongly recommends the following practices to prevent COVID-19 in your community:

- · Wear a high-quality mask or respirator
- If you have close contact with someone at high risk of getting very sick, consider self-testing to detect infection before contact, and consider wearing a high-quality mask when indoors with them
- Stay up-to-date on vaccinations.
- Recognize the <u>symptoms</u> of COVID-19 and seek testing and possible treatment if you get sick
- Stay home when sick and avoid contact with others who are sick
- Improve indoor airflow and ventilation
- Wash your hands often and cover coughs and sneezes
- Follow CDC recommendations for <u>preventing spread</u> if you have COVID-19

- Find a <u>vaccination clinic</u> in your neighborhood
- Pick up a <u>free at-home test kit</u> in your neighborhood
- Find <u>treatment</u> for COVID-19 including <u>free telehealth</u> and <u>in home treatment</u>
- Call or visit the Mayor's Health Line
- Learn more about COVID-19 and find additional resources: COVID-19 in Boston

Level: Moderate



Wastewater viral levels in your neighborhood indicate **moderate risk** of COVID-19 infection.

Based on this level, BPHC recommends the following practices to prevent COVID-19 in your community:

- If you are at high risk of getting very sick, wear a high-quality mask or respirator in public indoor spaces
- If you have close contact with someone at high risk of getting very sick, consider self-testing to detect infection before contact, and consider wearing a high-quality mask when indoors with them
- Stay up-to-date on vaccinations.
- Recognize the <u>symptoms</u> of COVID-19 and seek testing and possible treatment if you get sick
- Stay home when sick and avoid contact with others who are sick
- Improve indoor airflow and ventilation
- Wash your hands often and cover coughs and sneezes
- Follow CDC recommendations for <u>preventing spread</u> if you have COVID-19

- Find a <u>vaccination clinic</u> in your neighborhood
- Pick up a <u>free at-home test kit</u> in your neighborhood
- Find treatment for COVID-19 including free telehealth and in home treatment
- · Call or visit the Mayor's Health Line
- Learn more about COVID-19 and find additional resources: COVID-19 in Boston

Level: Low



Wastewater viral levels in your neighborhood indicate **low risk** of COVID-19 infection.

Based on this level, BPHC recommends the following practices to prevent COVID-19 in your community:

- . Continue to monitor wastewater levels and trends
- Stay up-to-date on vaccinations.
- Recognize the symptoms of COVID-19 and seek testing and possible treatment if you get sick
- Stay home when sick and avoid contact with others who are sick
- Improve indoor airflow and ventilation
- Wash your hands often and cover coughs and sneezes
- Follow CDC recommendations for preventing spread if you have COVID-19

- Find a vaccination clinic in your neighborhood
- · Pick up a free at-home test kit in your neighborhood
- Find <u>treatment</u> for COVID-19 including <u>free telehealth</u> and <u>in home treatment</u>
- Call or visit the Mayor's Health Line
- Learn more about COVID-19 and find additional resources: COVID-19 in Boston

Level: Very Low



Wastewater viral levels in your neighborhood indicate **very low risk** of COVID-19 infection.

Based on this level, BPHC recommends the following practices to prevent COVID-19 in your community:

- · Continue to monitor wastewater levels and trends
- Stay up-to-date on vaccinations.
- Recognize the symptoms of COVID-19 and seek testing and possible treatment if you get sick
- Stay home when sick and avoid contact with others who are sick
- · Improve indoor airflow and ventilation
- Wash your hands often and cover coughs and sneezes
- Follow CDC recommendations for <u>preventing spread</u> if you have COVID-19

- Find a vaccination clinic in your neighborhood
- · Pick up a free at-home test kit in your neighborhood
- Find treatment for COVID-19 including free telehealth and in home treatment
- Call or visit the Mayor's Health Line
- Learn more about COVID-19 and find additional resources: COVID-19 in Boston