

Boston Wastewater Epidemiology Report

Updated: 10-Feb-2025 | **Data Complete Through**: 02-Feb-2025



Report Contents



COVID-19 Summary

Neighborhood Levels and Trends COVID-19 Citywide Overview and

Trends

BPHC Trend Overview by

Neighborhood

Detailed Results

Neighborhood Levels and Data Table Results by Neighborhood

Allston/Brighton

Back Bav

Charlestown

Dorchester

East Boston

Hyde Park

Jamaica Plain

Mattapan

Roslindale/West Roxbury

Roxbury

Variant Results

Percent Variant Lineages (Citywide)

Influenza & RSV

Influenza Detections in Wastewater Influenza Trends in Wastewater by

Neighborhood

RSV Detections in Wastewater

RSV Trends in Wastewater by

Neighborhood

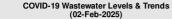
A Note About These Reports

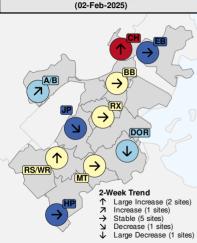


The laboratory that tests Boston's wastewater changed on August 1, 2024. Because of differences in the methods used at the old laboratory and the new one, data may not be comparable before and after the change. The change is marked with a vertical red line line on figures in this report. BPHC cautions 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







BOSTON CITYWIDE COVID-19 LEVEL & TRENDS
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COVID-19 LEVEL

2-WEEK TRENDS



-107 copies/mL (-12%)

750 copies/mL samples through 02-Feb-2025

NEIGHBORHOOD SITES COVID-19 LEVEL & TRENDS

Level	el Neighborhood/Site		Trend
Very High	Charlestown (CH)	1	Large Increase
	Back Bay (BB)	\rightarrow	Stable
Moderate	Roslindale/West Roxbury (RS/WR)	1	Large Increase
Moderate	Mattapan (MT)	\rightarrow	Stable
	Roxbury (RX)	\rightarrow	Stable
Low	Dorchester (DOR)	$\overline{}$	Large Decrease
LOW	Allston/Brighton (A/B)	7	Increase
	Jamaica Plain (JP)	И	Decrease
Very Low	Hyde Park (HP)	\rightarrow	Stable
	East Boston (EB)	\rightarrow	Stable

For additional details see:

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







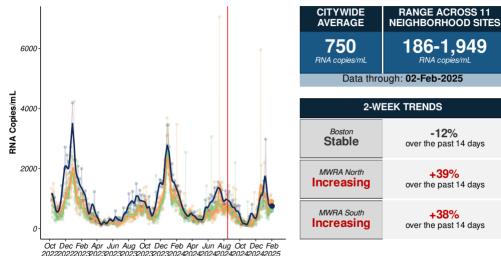






COVID-19 Citywide Overview and Trends

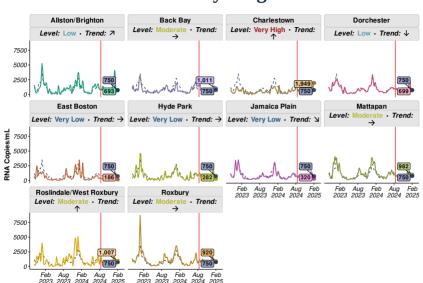




Updated: 10-Feb-2025 | Samples through: 02-Feb-2025 (BPHC); 30-Jan-2025 (MWRA) | MWRA Data: https://www.mwra.com/biobot/biobotdata.htm

BPHC Trend Overview by Neighborhood





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

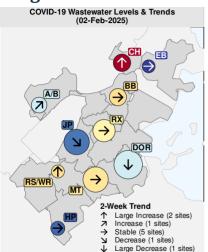
The dotted blue line and dark blue text box in each panel shows the trend and most recent value across all Boston sites weighted by population.

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.

Neighborhood Levels and Data Table





	COVID-19 Wastewater Levels		2-	Week Trends	
NH	Conc. (copies/mL)	Level	Trend	Diff. (copies/mL)	% Change
BOSTON	750	Moderate	Stable	-107	
CH	1,949	Very High	Large Increase	+1,609	+472%
BB	1,011	Moderate	Stable	-33	-3%
RS/WR	1,007	Moderate	Large Increase	+753	+296%
MT	982	Moderate	Stable	-106	-10%
RX	920	Moderate	Stable	-111	-11%
DOR	699	Low	Large Decrease	-956	-58%
A/B	693	Low	Increase	+406	+142%
JP	320	Very Low	Decrease	-491	-61%
HP	282	Very Low	Stable	+39	+16%
EB	186	Very Low	Stable	+14	+8%

Concentration Levels: Very High: >1,400 copies/mL; High: 1,050-1,400 copies/mL; Moderate: 700-1,050 copies/mL; Low: 350-700 copies/mL; Very Low: ≤350 copies/mL

2-Week Trend Categories: Large Increase: >+500 copies/mL; Increase: +150 to +500 copies/mL; Stable: -150 to +150 copies/mL; Decrease: -500 to -150 copies/mL; Large Decrease: ≤-500 copies/mL



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

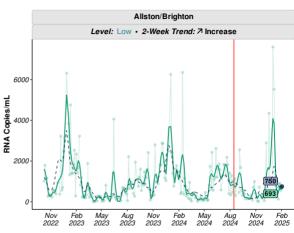


Level: Low

- Average value in A/B over the past week: 693 copies/mL.
- This value is <u>low</u> compared to past values and <u>similar</u> than the citywide average (<u>750</u> copies/mL).

Trend: **↗ Increase**

- Over the past two weeks, values in <u>A/B</u> are <u>increasing</u>.
- Change compared to two weeks ago: +406 copies/mL (+142%).



Updated: 10-Feb-2025 | Samples through: 29-Jan-2025 (A/B);

Back Bay

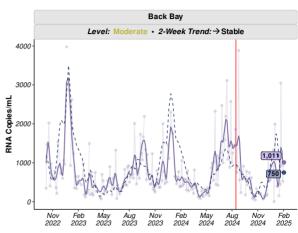


Level: **Moderate**

- Average value in <u>BB</u> over the past week: 1,011 copies/mL.
- This value is <u>moderate</u> compared to past values and <u>similar</u> than the citywide average (750 copies/mL).

Trend: → Stable

- Over the past two weeks, values in <u>BB</u> are <u>stable</u>.
- Change compared to two weeks ago: <u>-33</u> copies/mL (-3%).



Updated: 10-Feb-2025 | Samples through: 02-Feb-2025 (BB);

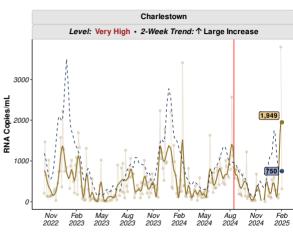
Charlestown



Level: Very High

- Average value in <u>CH</u> over the past week: 1,949 copies/mL.
- This value is very high compared to past values and higher than the citywide average (750 copies/mL).

- Over the past two weeks, values in <u>CH</u> are <u>increasing</u>.
- Change compared to two weeks ago: +1,609 copies/mL (+472%).



Updated: 10-Feb-2025 | Samples through: 02-Feb-2025 (CH);

Dorchester

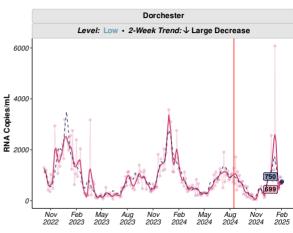


Level: Low

- Average value in <u>DOR</u> over the past week: 699 copies/mL.
- This value is <u>low</u> compared to past values and <u>similar</u> than the citywide average (750 copies/mL).

Trend: **↓ Large Decrease**

- Over the past two weeks, values in <u>DOR</u> are <u>decreasing</u>.
- Change compared to two weeks ago: -956 copies/mL (-58%).



Updated: 10-Feb-2025 | Samples through: 29-Jan-2025 (DOR);

East Boston

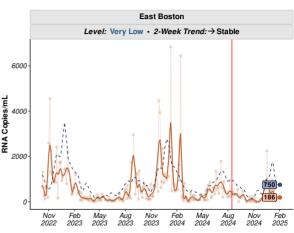


Level: Very Low

- Average value in <u>EB</u> over the past week: 186 copies/mL.
- This value is very low compared to past values and <u>lower</u> than the citywide average (750 copies/mL).

Trend: → Stable

- Over the past two weeks, values in <u>EB</u> are <u>stable</u>.
- Change compared to two weeks ago: +14 copies/mL (+8%).



Updated: 10-Feb-2025 | Samples through: 02-Feb-2025 (EB);

Hyde Park

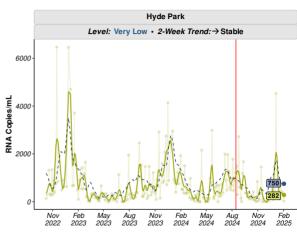


Level: Very Low

- Average value in <u>HP</u> over the past week: 282 copies/mL.
- This value is <u>very low</u> compared to past values and <u>lower</u> than the citywide average (750 copies/mL).

Trend: → Stable

- Over the past two weeks, values in <u>HP</u> are <u>stable</u>.
- Change compared to two weeks ago: +39 copies/mL (+16%).



Updated: 10-Feb-2025 | Samples through: 02-Feb-2025 (HP);

Jamaica Plain

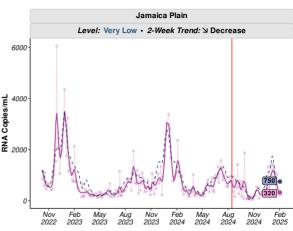


Level: Very Low

- Average value in <u>JP</u> over the past week:
 320 copies/mL.
- This value is very low compared to past values and lower than the citywide average (750 copies/mL).

Trend: > Decrease

- Over the past two weeks, values in <u>JP</u> are <u>decreasing</u>.
- Change compared to two weeks ago:
 -491 copies/mL (-61%).



Updated: 10-Feb-2025 | Samples through: 02-Feb-2025 (JP);

Mattapan

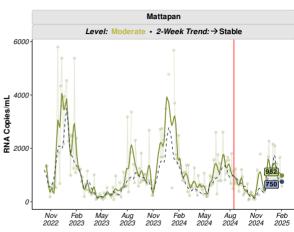


Level: **Moderate**

- Average value in <u>MT</u> over the past week: <u>982</u> copies/mL.
- This value is moderate compared to past values and similar than the citywide average (750 copies/mL).

Trend: → Stable

- Over the past two weeks, values in <u>MT</u> are <u>stable</u>.
- Change compared to two weeks ago: -106 copies/mL (-10%).



Updated: 10-Feb-2025 | Samples through: 02-Feb-2025 (MT);

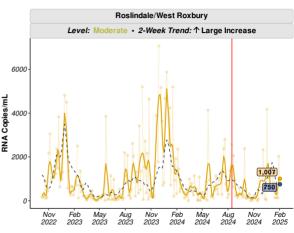
Roslindale/West Roxbury



Level: **Moderate**

- Average value in RS/WR over the past week: 1,007 copies/mL.
- This value is moderate compared to past values and similar than the citywide average (750 copies/mL).

- Over the past two weeks, values in RS/WR are increasing.
- Change compared to two weeks ago: +753 copies/mL (+296%).



Updated: 10-Feb-2025 | Samples through: 02-Feb-2025 (RS/WR);

Roxbury

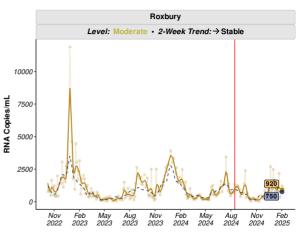


Level: **Moderate**

- Average value in <u>RX</u> over the past week: 920 copies/mL.
- This value is moderate compared to past values and similar than the citywide average (750 copies/mL).

Trend: \rightarrow **Stable**

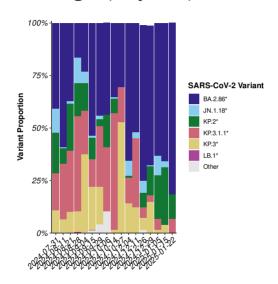
- Over the past two weeks, values in <u>RX</u> are <u>stable</u>.
- Change compared to two weeks ago: -111 copies/mL (-11%).



Updated: 10-Feb-2025 | Samples through: 02-Feb-2025 (RX);

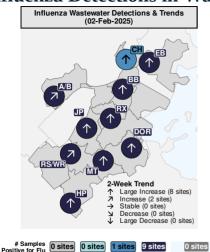
Percent Variant Lineages (Citywide)

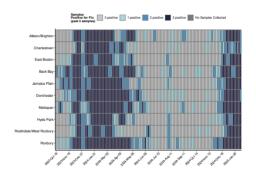




Influenza Detections in Wastewater







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.

2 positive 3 positive No Samples Collected

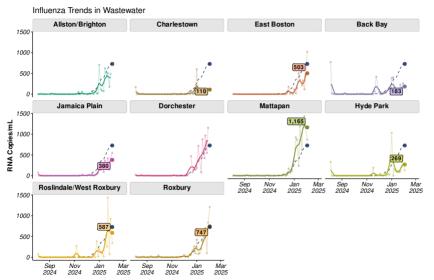
1 positive

(Past 3 Samples)

O positive

Influenza Trends in Wastewater by Neighborhood



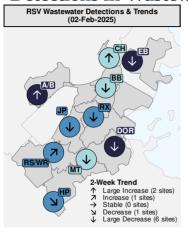


For each neighborhood, colored line and textbox shows the smoothed trend and most recent value in that neighborhood;

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

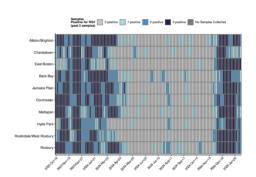
2 positive

0 sites

3 positive No Samples Collected

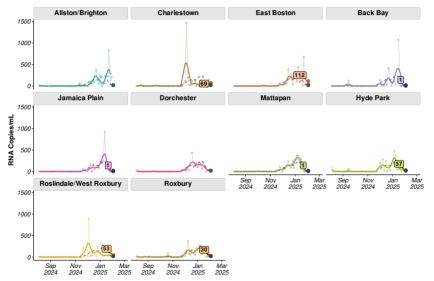
RSV = Respiratory Syncytial Virus

This map 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

2-Week Trend Categories

	Trend Category	Trend Value (Copies/mL)
\land	Large Increase	>+500
7	Increase	+150 to +500
\rightarrow	Stable	-150 to +150
7	Decrease	-500 to -150
$\overline{}$	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 vaccination clinic 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 <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: 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 <u>vaccinations</u>.
- 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 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 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