

Boston Wastewater Epidemiology Report

Updated: 22-Apr-2025 | **Data Complete Through**: 09-Apr-2025



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A Note About These Reports

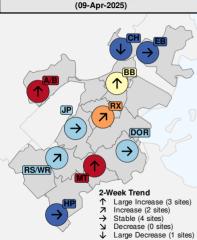


The laboratory that tests Boston's wastewater changed on August 1, 2024. Because of differences in the methods used at the old laboratory and the new one, data may not be comparable before and after the change. The change is marked with a vertical red line line on figures in this report. BPHC cautions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













BOSTON CITYWIDE COVID-19 LEVEL & TRENDS

COVID-19 LEVEL 2-WEEK TRENDS

Moderate

836 copies/mL samples through 09-Apr-2025 +319 copies/mL (+62%)

NEIGHBORHOOD SITES COVID-19 LEVEL & TRENDS

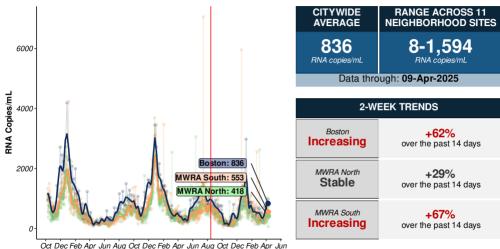
Level	Neighborhood/Site	Trend	
Von High	Allston/Brighton (A/B)	\wedge	Large Increase
Very High	Mattapan (MT)	1	Large Increase
High	Roxbury (RX)	7	Increase
Moderate	Back Bay (BB)	1	Large Increase
	Dorchester (DOR)	\rightarrow	Stable
Low	Roslindale/West Roxbury (RS/WR)	7	Increase
	Jamaica Plain (JP)	\rightarrow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

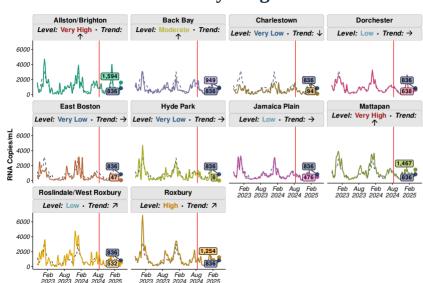




 $\textbf{Updated: } 22\text{-}Apr\text{-}2025 \mid \textbf{Samples through: } 09\text{-}Apr\text{-}2025 (BPHC); 10\text{-}Apr\text{-}2025 (MWRA) \mid \textbf{MWRA Data: } \\ \underline{\textbf{https://www.mwra.com/biobot/biobotdata.htm}}$

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.

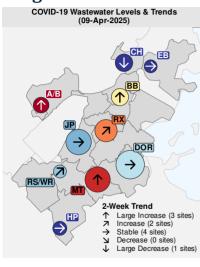
The vertical red line marks the date of August 1, 2024, when the laboratory that tests Boston's wastewater changed.

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

Neighborhood Levels and Data Table



2-Mook Tronds



	COVID-19 Wastew	ater Leveis		2-week frends	
NH	Conc. (copies/mL)	Level	Trend	Diff. (copies/mL)	% Change
BOSTON	836	Moderate	Increase	+319	+62\%
A/B	1,594	Very High	Large Increase	+1,067	+202\%
МТ	1,467	Very High	Large Increase	+899	+158\%
RX	1,254	High	Increase	+468	+60\%
ВВ	949	Moderate	Large Increase	+637	+204\%
DOR	638	Low	Stable	+142	+29\%
RS/WR	532	Low	Increase	+454	+579\%
JP	476	Low	Stable	+41	+9\%
СН	94	Very Low	Large Decrease	-629	-87\%
EB	47	Very Low	Stable	-72	-61\%
HP	8	Very Low	Stable	-132	-94\%

COVID-19 Wastowater Levels



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)

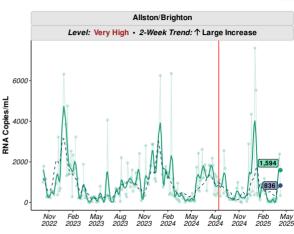
Allston/Brighton



Level: Very High

- Average value in A/B over the past week: 1,594 copies/mL.
- This value is very high compared to past values and higher than the citywide average (836 copies/mL).

- Over the past two weeks, values in <u>A/B</u> are <u>increasing</u>.
- Change compared to two weeks ago: +1,067 copies/mL (+202%).



Updated: 22-Apr-2025 | Samples through: 09-Apr-2025 (A/B);

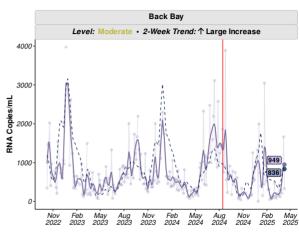
Back Bay



Level: **Moderate**

- Average value in <u>BB</u> over the past week: 949 copies/mL.
- This value is moderate compared to past values and similar than the citywide average (836 copies/mL).

- Over the past two weeks, values in <u>BB</u> are <u>increasing</u>.
- Change compared to two weeks ago: +637 copies/mL (+204%).



Updated: 22-Apr-2025 | Samples through: 09-Apr-2025 (BB);

Charlestown

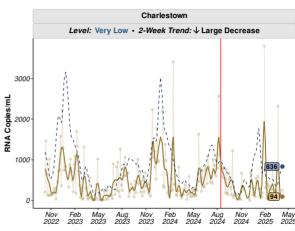


Level: Very Low

- Average value in <u>CH</u> over the past week: 94 copies/mL.
- This value is very low compared to past values and <u>lower</u> than the citywide average (<u>836</u> copies/mL).

Trend: **↓ Large Decrease**

- Over the past two weeks, values in <u>CH</u> are <u>decreasing</u>.
- Change compared to two weeks ago:
 -629 copies/mL (-87%).



Updated: 22-Apr-2025 | Samples through: 09-Apr-2025 (CH);

Dorchester

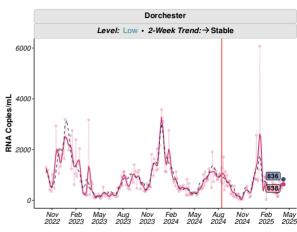


Level: Low

- Average value in <u>DOR</u> over the past week: 638 copies/mL.
- This value is <u>low</u> compared to past values and <u>similar</u> than the citywide average (<u>836</u> copies/mL).

Trend: → Stable

- Over the past two weeks, values in <u>DOR</u> are <u>stable</u>.
- Change compared to two weeks ago: +142 copies/mL (+29%).



Updated: 22-Apr-2025 | Samples through: 09-Apr-2025 (DOR);

East Boston

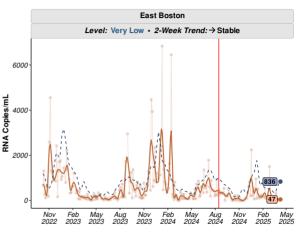


Level: Very Low

- Average value in <u>EB</u> over the past week: <u>47</u> copies/mL.
- This value is very low compared to past values and <u>lower</u> than the citywide average (<u>836</u> copies/mL).

Trend: → Stable

- Over the past two weeks, values in <u>EB</u> are <u>stable</u>.
- Change compared to two weeks ago:
 -72 copies/mL (-61%).



Updated: 22-Apr-2025 | Samples through: 09-Apr-2025 (EB);

Hyde Park

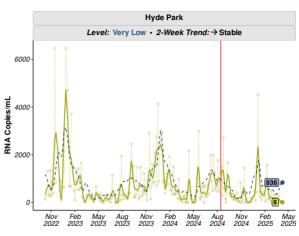


Level: Very Low

- Average value in <u>HP</u> over the past week:
 8 copies/mL.
- This value is very low compared to past values and lower than the citywide average (836 copies/mL).

Trend: → Stable

- Over the past two weeks, values in <u>HP</u> are <u>stable</u>.
- Change compared to two weeks ago: -132 copies/mL (-94%).



Updated: 22-Apr-2025 | Samples through: 09-Apr-2025 (HP);

Jamaica Plain

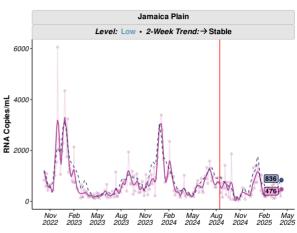


Level: Low

- Average value in <u>JP</u> over the past week: 476 copies/mL.
- This value is <u>low</u> compared to past values and <u>lower</u> than the citywide average (<u>836</u> copies/mL).

Trend: \rightarrow **Stable**

- Over the past two weeks, values in <u>JP</u> are <u>stable</u>.
- Change compared to two weeks ago: +41 copies/mL (+9%).



Updated: 22-Apr-2025 | Samples through: 09-Apr-2025 (JP);

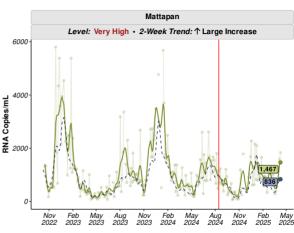
Mattapan



Level: Very High

- Average value in <u>MT</u> over the past week: 1,467 copies/mL.
- This value is very high compared to past values and higher than the citywide average (836 copies/mL).

- Over the past two weeks, values in <u>MT</u> are <u>increasing</u>.
- Change compared to two weeks ago: +899 copies/mL (+158%).



Updated: 22-Apr-2025 | Samples through: 09-Apr-2025 (MT);

Roslindale/West Roxbury

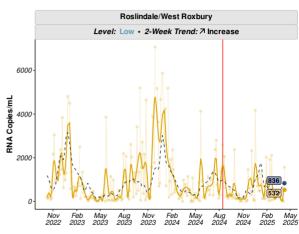


Level: Low

- Average value in RS/WR over the past week: 532 copies/mL.
- This value is <u>low</u> compared to past values and <u>similar</u> than the citywide average (<u>836</u> copies/mL).

Trend: **↗ Increase**

- Over the past two weeks, values in RS/WR are increasing.
- Change compared to two weeks ago: +454 copies/mL (+579%).



Updated: 22-Apr-2025 | Samples through: 09-Apr-2025 (RS/WR);

Roxbury

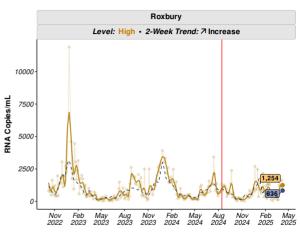


Level: High

- Average value in <u>RX</u> over the past week: 1,254 copies/mL.
- This value is <u>high</u> compared to past values and <u>higher</u> than the citywide average (<u>836</u> copies/mL).

Trend: **↗** Increase

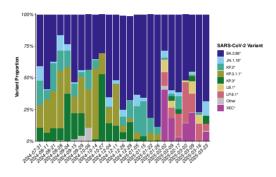
- Over the past two weeks, values in <u>RX</u> are <u>increasing</u>.
- Change compared to two weeks ago: +468 copies/mL (+60%).



Updated: 22-Apr-2025 | Samples through: 09-Apr-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
(next 3 samples)

Allston/Brighto Charlestown East Boston

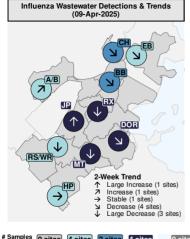
> Back Bay Jamaica Plai Dorchester

> > Mattapa

Livete President

Doybury

Boelindale/Meet Boybury



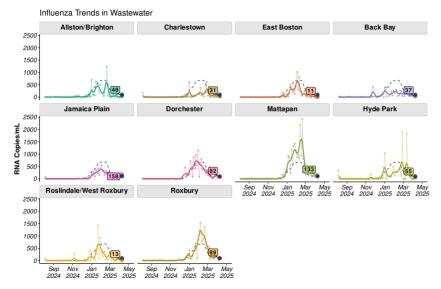


This map depicts the number of times influenza virus was detected in wastewater at the 3 most-recent samples (approximately the past week) at each of the neighborhood sampling locations.

Positive for Flu (Past 3 Samples)

Influenza Trends in Wastewater by Neighborhood



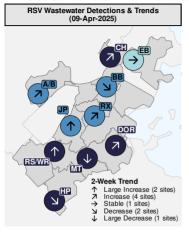


For each neighborhood, colored line and textbox shows the smoothed trend and most recent value in that neighborhood:

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

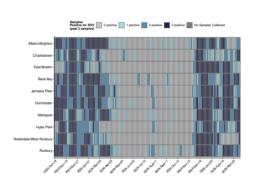
2 positive

0 sites

3 positive No Samples Collected

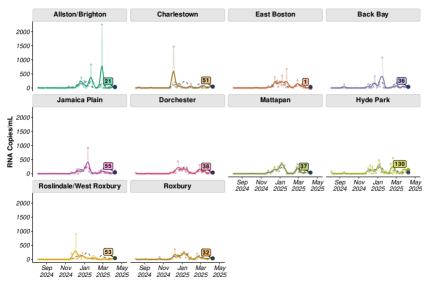
RSV = Respiratory Syncytial Virus

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 Level	Concentration Value (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	
	rrend Category	(Copies/mL)	
个	Large Increase	>+500	
7	Increase	+150 to +500	
\rightarrow	Stable	-150 to +150	
7	Decrease	-500 to -150	
\downarrow	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