

## Boston Wastewater Epidemiology Report

**Updated**: 27-Feb-2025 | **Data Complete Through**: 19-Feb-2025



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## **A Note About These Reports**

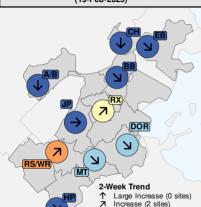


The laboratory that tests Boston's wastewater changed on August 1, 2024. Because of differences in the methods used at the old laboratory and the new one, data may not be comparable before and after the change. The change is marked with a vertical red line line on figures in this report. BPHC cautions 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	6 sites
(# sites)	Very Low











Stable (1 sites) Decrease (5 sites) Large Decrease (2 sites)



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

COVID-19 LEVEL 2-WEEK TRENDS

Low

502 copies/mL samples through 19-Feb-2025



**NEIGHBORHOOD SITES COVID-19 LEVEL & TRENDS** 

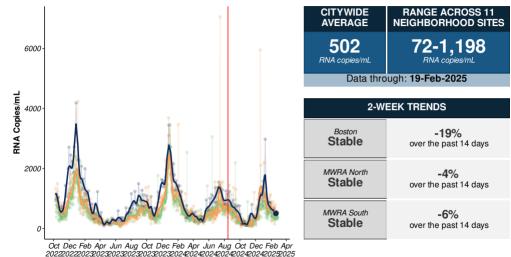
Level	Neighborhood/Site	Trend	
High	Roslindale/West Roxbury (RS/WR)	7	Increase
Moderate	Roxbury (RX)	7	Increase
Low	Mattapan (MT)	7	Decrease
LOW	Dorchester (DOR)	7	Decrease
	Jamaica Plain (JP)	$\rightarrow$	Stable
	Hyde Park (HP)	Z	Decrease
Very Low	Charlestown (CH)	$\overline{}$	Large Decrease
	Allston/Brighton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

#### For additional details see:

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

## **COVID-19 Citywide Overview and Trends**

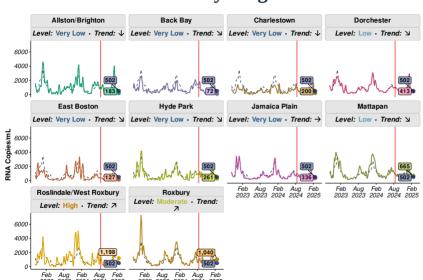




 $\textbf{Updated: 27-Feb-2025 | Samples through: 19-Feb-2025 (BPHC); 20-Feb-2025 (MWRA) | \textbf{MWRA Data: } \underline{\textbf{https://www.mwra.com/blobot/blobotdata.htm}}$ 

## **BPHC Trend Overview by Neighborhood**





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

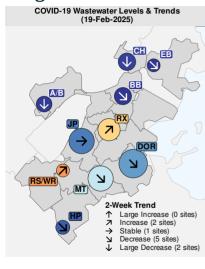
The dotted blue line and dark blue text box in each panel shows the trend and most recent value across all Boston sites weighted by population.

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 Lev	els		2-1
NH	\makecell[c]{Conc.\\(copies/mL)}	Level	Trend	\makecell[c]{Diff
BOSTON	502	Low	Stable	-12
RS/WR	1,198	High	Increase	+41
RX	1,040	Moderate	Increase	+18
МТ	665	Low	Decrease	-18
DOR	413	Low	Decrease	-19
JP	336	Very Low	Stable	+12
HP	261	Very Low	Decrease	-40
СН	200	Very Low	Large Decrease	-79
A/B	183	Very Low	Large Decrease	-63
EB	127	Very Low	Decrease	-16
ВВ	72	Very Low	Decrease	-36



## 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

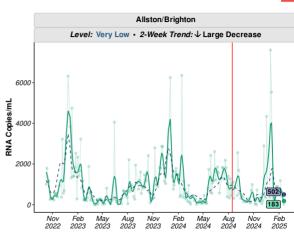


## Level: Very Low

- Average value in <u>A/B</u> over the past week: 183 copies/mL.
- This value is very low compared to past values and <u>similar</u> than the citywide average (502 copies/mL).

## Trend: **↓ Large Decrease**

- Over the past two weeks, values in <u>A/B</u> are <u>decreasing</u>.
- Change compared to two weeks ago: <u>-637</u> copies/mL (-78%).



Updated: 27-Feb-2025 | Samples through: 19-Feb-2025 (A/B);

## **Back Bay**

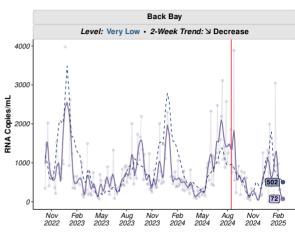


#### Level: Very Low

- Average value in <u>BB</u> over the past week:
   72 copies/mL.
- This value is very low compared to past values and <u>lower</u> than the citywide average (502 copies/mL).

#### Trend: > Decrease

- Over the past two weeks, values in <u>BB</u> are <u>decreasing</u>.
- Change compared to two weeks ago: -366 copies/mL (-84%).



Updated: 27-Feb-2025 | Samples through: 19-Feb-2025 (BB);

## Charlestown

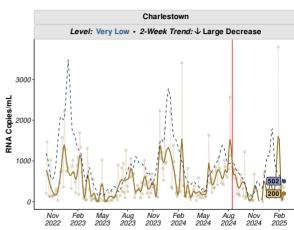


### Level: Very Low

- Average value in <u>CH</u> over the past week: 200 copies/mL.
- This value is very low compared to past values and <u>similar</u> than the citywide average (502 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:
   -792 copies/mL (-80%).



Updated: 27-Feb-2025 | Samples through: 19-Feb-2025 (CH);

## Dorchester

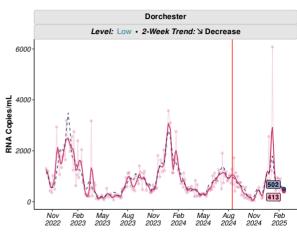


### Level: Low

- Average value in <u>DOR</u> over the past week: <u>413</u> copies/mL.
- This value is <u>low</u> compared to past values and <u>similar</u> than the citywide average (502 copies/mL).

#### Trend: > Decrease

- Over the past two weeks, values in <u>DOR</u> are <u>decreasing</u>.
- Change compared to two weeks ago: <u>-192</u> copies/mL (-32%).



Updated: 27-Feb-2025 | Samples through: 19-Feb-2025 (DOR);

### **East Boston**



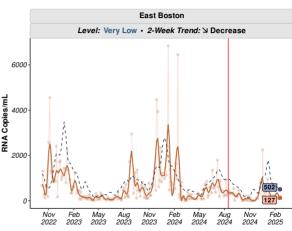
### Level: Very Low

- Average value in <u>EB</u> over the past week: 127 copies/mL.
- This value is very low compared to past values and <u>lower</u> than the citywide average (<u>502</u> copies/mL).

#### Trend: > Decrease

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

   -169 copies/mL (-57%).



Updated: 27-Feb-2025 | Samples through: 19-Feb-2025 (EB);

## **Hyde Park**

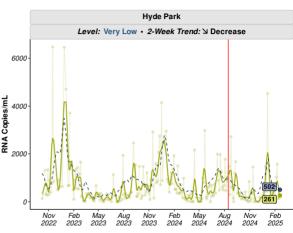


#### Level: Very Low

- Average value in <u>HP</u> over the past week: 261 copies/mL.
- This value is very low compared to past values and similar than the citywide average (502 copies/mL).

#### Trend: > Decrease

- Over the past two weeks, values in <u>HP</u> are <u>decreasing</u>.
- Change compared to two weeks ago: <u>-407</u> copies/mL (-61%).



Updated: 27-Feb-2025 | Samples through: 19-Feb-2025 (HP);

### Jamaica Plain

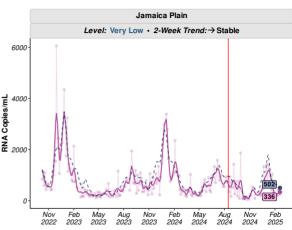


#### Level: Very Low

- Average value in <u>JP</u> over the past week: 336 copies/mL.
- This value is very low compared to past values and <u>similar</u> than the citywide average (502 copies/mL).

#### Trend: → Stable

- Over the past two weeks, values in <u>JP</u> are <u>stable</u>.
- Change compared to two weeks ago: +129 copies/mL (+62%).



Updated: 27-Feb-2025 | Samples through: 19-Feb-2025 (JP);

## Mattapan

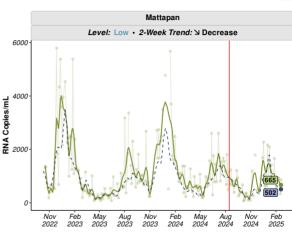


Level: Low

- Average value in <u>MT</u> over the past week: 665 copies/mL.
- This value is <u>low</u> compared to past values and <u>similar</u> than the citywide average (<u>502</u> copies/mL).

#### Trend: > Decrease

- Over the past two weeks, values in <u>MT</u> are <u>decreasing</u>.
- Change compared to two weeks ago: <u>-180</u> copies/mL (-21%).



Updated: 27-Feb-2025 | Samples through: 19-Feb-2025 (MT);

# Roslindale/West Roxbury

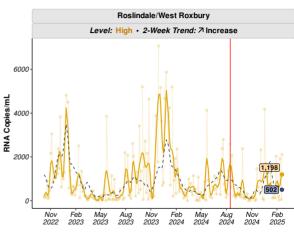


## Level: High

- Average value in RS/WR over the past week: 1,198 copies/mL.
- This value is <u>high</u> compared to past values and <u>higher</u> than the citywide average (<u>502</u> copies/mL).

#### Trend: **↗ Increase**

- Over the past two weeks, values in RS/WR are increasing.
- Change compared to two weeks ago: +416 copies/mL (+53%).



Updated: 27-Feb-2025 | Samples through: 19-Feb-2025 (RS/WR);

## **Roxbury**

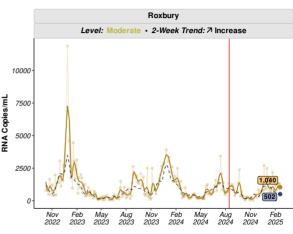


#### Level: Moderate

- Average value in <u>RX</u> over the past week: 1,040 copies/mL.
- This value is moderate compared to past values and higher than the citywide average (502 copies/mL).

#### Trend: **↗** Increase

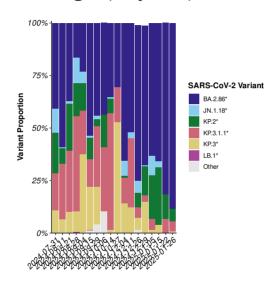
- Over the past two weeks, values in <u>RX</u> are <u>increasing</u>.
- Change compared to two weeks ago: +189 copies/mL (+22%).



Updated: 27-Feb-2025 | Samples through: 19-Feb-2025 (RX);

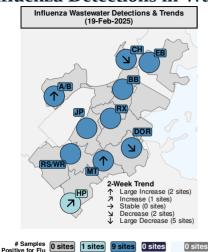
## **Percent Variant Lineages (Citywide)**

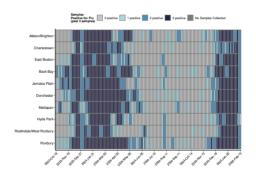




## **Influenza Detections in Wastewater**







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

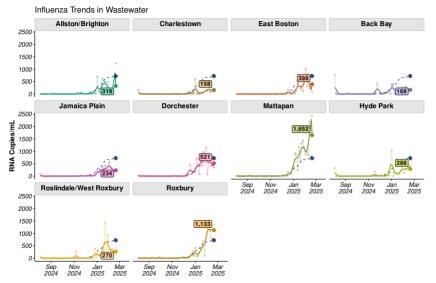
1 positive

(Past 3 Samples)

O positive

## Influenza Trends in Wastewater by Neighborhood



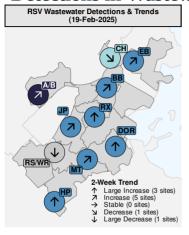


For each neighborhood, colored line and textbox shows the smoothed trend and most recent value in that neighborhood:

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 (Past 3 Samples)

0 nositive

1 positive

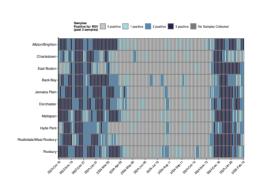
2 positive

0 sites

3 positive No Samples Collected

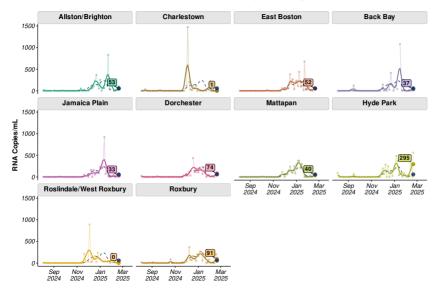
RSV = Respiratory Syncytial Virus

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
		(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