

# Boston Wastewater Epidemiology Report

**Updated**: 05-May-2025 | **Data Complete Through**: 27-Apr-2025



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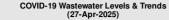
# **A Note About These Reports**

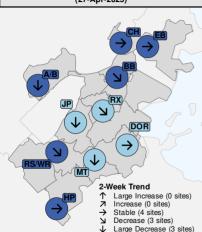


The laboratory that tests Boston's wastewater changed on August 1, 2024. Because of differences in the methods used at the old laboratory and the new one, data may not be comparable before and after the change. The change is marked with a vertical red line line on figures in this report. BPHC cautions 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	6 sites	4 sites			
(# sites)	Very Low	Low	Moderate	High	Very High

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

COVID-19 LEVEL 2-WEEK TRENDS

Large Decrease

-543 copies/mL (-53%)

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

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

#### For additional details see:

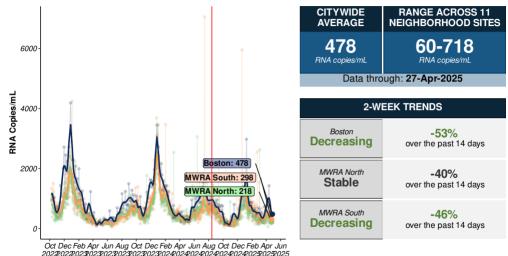
- . Results by Neighborhood
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478 copies/mL

samples through 27-Apr-2025

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

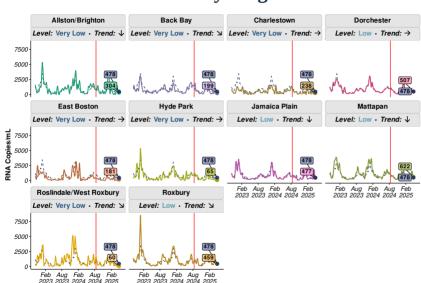




 $\textbf{Updated: 05-May-2025 | Samples through: 27-Apr-2025 (BPHC); 24-Apr-2025 (MWRA) | \textbf{MWRA Data: } \underline{\textbf{https://www.mwra.com/biobot/biobotdata.htm}}$ 

# **BPHC Trend Overview by Neighborhood**





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

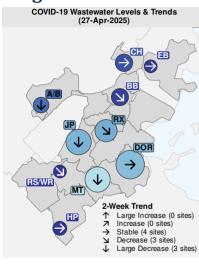
The dotted blue line and dark blue text box in each panel shows the trend and most recent value across all Boston sites weighted by population.

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**





	COVID-19 Wastewater Levels		2-Week Trends		
NH	Conc. (copies/mL)	Level	Trend	Diff. (copies/mL)	% Change
BOSTON	478	Low	Large Decrease	-543	-53\%
MT	622	Low	Large Decrease	-839	-57\%
DOR	507	Low	Stable	-85	-14\%
JP	477	Low	Large Decrease	-1,347	-74\%
RX	459	Low	Decrease	-489	-52\%
A/B	304	Very Low	Large Decrease	-504	-62\%
СН	238	Very Low	Stable	+141	+147\%
ВВ	199	Very Low	Decrease	-182	-48\%
EB	181	Very Low	Stable	-71	-28\%
HP	65	Very Low	Stable	-109	-63\%
RS/WR	60	Very Low	Decrease	-408	-87\%



# 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

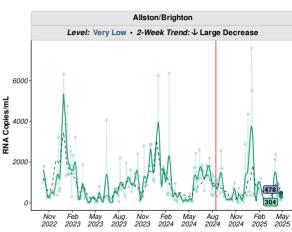


# Level: Very Low

- Average value in <u>A/B</u> over the past week: 304 copies/mL.
- This value is very low compared to past values and similar than the citywide average (478 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>-504</u> copies/mL (-62%).



Updated: 05-May-2025 | Samples through: 27-Apr-2025 (A/B);

# **Back Bay**



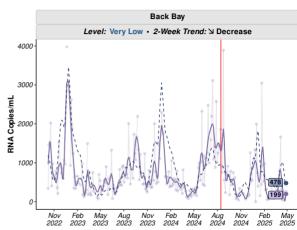
### Level: Very Low

- Average value in <u>BB</u> over the past week: 199 copies/mL.
- This value is very low compared to past values and similar than the citywide average (478 copies/mL).

### Trend: > Decrease

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

   182 copies/mL (-48%).



Updated: 05-May-2025 | Samples through: 27-Apr-2025 (BB);

## Charlestown

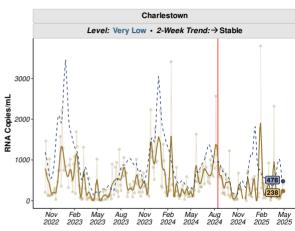


### Level: Very Low

- Average value in <u>CH</u> over the past week: 238 copies/mL.
- This value is very low compared to past values and <u>similar</u> than the citywide average (478 copies/mL).

#### Trend: → Stable

- Over the past two weeks, values in <u>CH</u> are <u>stable</u>.
- Change compared to two weeks ago: +141 copies/mL (+147%).



Updated: 05-May-2025 | Samples through: 27-Apr-2025 (CH);

## Dorchester

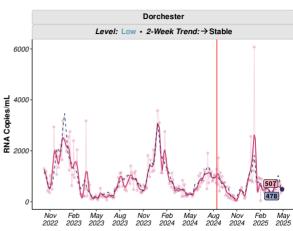


## Level: Low

- Average value in <u>DOR</u> over the past week: <u>507</u> copies/mL.
- This value is <u>low</u> compared to past values and <u>similar</u> than the citywide average (478 copies/mL).

#### Trend: → Stable

- Over the past two weeks, values in <u>DOR</u> are <u>stable</u>.
- Change compared to two weeks ago: <u>-85</u> copies/mL (-14%).



Updated: 05-May-2025 | Samples through: 27-Apr-2025 (DOR);

## **East Boston**



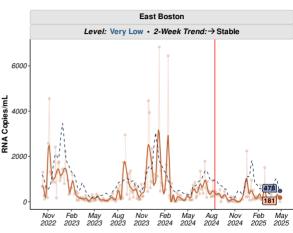
### Level: Very Low

- Average value in <u>EB</u> over the past week: 181 copies/mL.
- This value is very low compared to past values and <u>similar</u> than the citywide average (<u>478</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:

   <u>-71</u> copies/mL (-28%).



Updated: 05-May-2025 | Samples through: 27-Apr-2025 (EB);

# **Hyde Park**

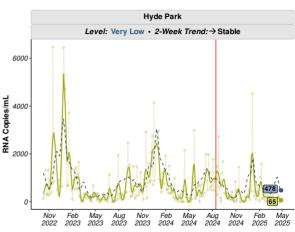


### Level: Very Low

- Average value in <u>HP</u> over the past week:
   65 copies/mL.
- This value is very low compared to past values and <u>lower</u> than the citywide average (<u>478</u> copies/mL).

#### Trend: → Stable

- Over the past two weeks, values in <u>HP</u> are <u>stable</u>.
- Change compared to two weeks ago:
   -109 copies/mL (-63%).



Updated: 05-May-2025 | Samples through: 27-Apr-2025 (HP);

## Jamaica Plain

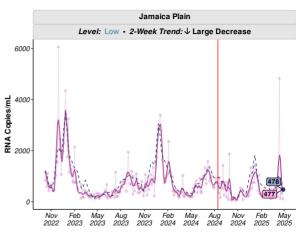


### Level: Low

- Average value in <u>JP</u> over the past week: 477 copies/mL.
- This value is <u>low</u> compared to past values and <u>similar</u> than the citywide average (<u>478</u> copies/mL).

## Trend: ↓ Large Decrease

- Over the past two weeks, values in <u>JP</u> are <u>decreasing</u>.
- Change compared to two weeks ago: -1,347 copies/mL (-74%).



Updated: 05-May-2025 | Samples through: 27-Apr-2025 (JP);

# Mattapan



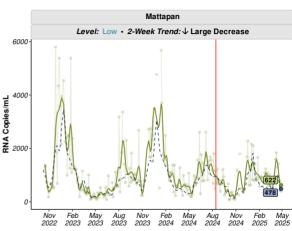
Level: Low

 Average value in <u>MT</u> over the past week: <u>622</u> copies/mL.

 This value is <u>low</u> compared to past values and <u>similar</u> than the citywide average (<u>478</u> copies/mL).

## Trend: **↓ Large Decrease**

- Over the past two weeks, values in <u>MT</u> are <u>decreasing</u>.
- Change compared to two weeks ago: <u>-839</u> copies/mL (-57%).



Updated: 05-May-2025 | Samples through: 27-Apr-2025 (MT);

# **Roslindale/West Roxbury**

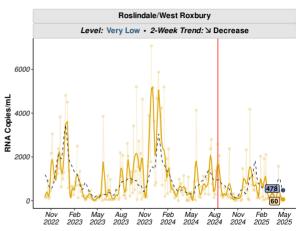


### Level: Very Low

- Average value in RS/WR over the past week: 60 copies/mL.
- This value is <u>very low</u> compared to past values and <u>lower</u> than the citywide average (<u>478</u> copies/mL).

### Trend: > Decrease

- Over the past two weeks, values in <u>RS/WR</u> are <u>decreasing</u>.
- Change compared to two weeks ago: <u>-408</u> copies/mL (-87%).



Updated: 05-May-2025 | Samples through: 27-Apr-2025 (RS/WR);

# **Roxbury**

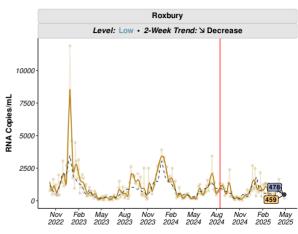


## Level: Low

- Average value in <u>RX</u> over the past week: 459 copies/mL.
- This value is <u>low</u> compared to past values and <u>similar</u> than the citywide average (<u>478</u> copies/mL).

#### Trend: > Decrease

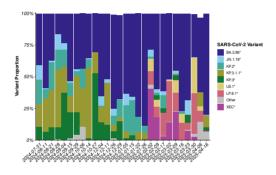
- Over the past two weeks, values in <u>RX</u> are <u>decreasing</u>.
- Change compared to two weeks ago: <u>-489</u> copies/mL (-52%).



Updated: 05-May-2025 | Samples through: 27-Apr-2025 (RX);

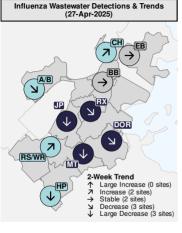
# **Percent Variant Lineages (Citywide)**

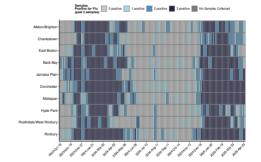




# Influenza Detections in Wastewater







# Samples Positive for Flu (Past 3 Samples)

O positive

1 positive

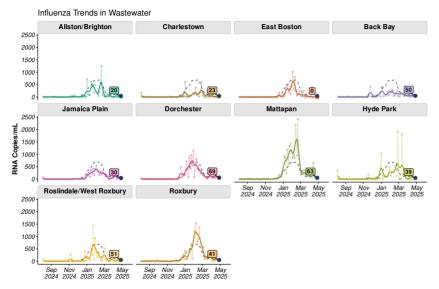
0 sites

2 positive 3 positive No Samples Collected

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.

# Influenza Trends in Wastewater by Neighborhood



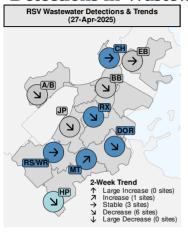


For each neighborhood, colored line and textbox shows the smoothed trend and most recent value in that neighborhood:

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

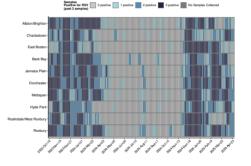
2 positive

0 sites

3 positive No Samples Collected

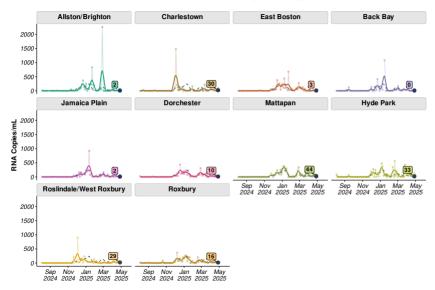
RSV = Respiratory Syncytial Virus

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**

10
(Copies/mL)
>1,400
1,050-1,400
700-1,050
350-700
≤350

### 2-Week Trend Categories

	Trend Category	Trend Value	
	Trend 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 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 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