



# Boston Wastewater Epidemiology Report

**Updated:** 05-Feb-2025 | **Data Complete Through:** 29-Jan-2025

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Boston Public  
Health Commission

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# A Note About These Reports

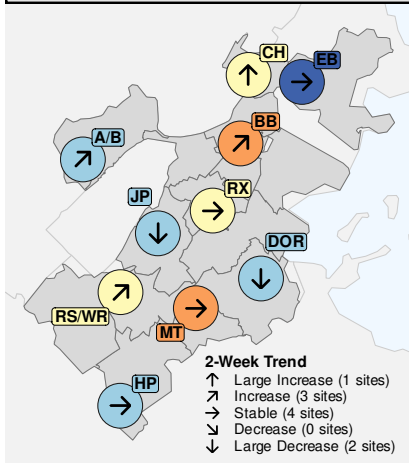


The laboratory that tests Boston's wastewater changed on August 1, 2024. Because of differences in the methods used at the old laboratory and the new one, data may not be comparable before and after the change. The change is marked with a vertical red line line on figures in this report. BPHC cautions 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 Wastewater Levels & Trends (29-Jan-2025)



## BOSTON CITYWIDE COVID-19 LEVEL & TRENDS

### COVID-19 LEVEL

**Moderate**

793 copies/mL  
samples through 29-Jan-2025

### 2-WEEK TRENDS



**Decrease**  
-396 copies/mL (-33%)

## NEIGHBORHOOD SITES COVID-19 LEVEL & TRENDS

Level	Neighborhood/Site	Trend
High	Back Bay (BB)	↗ Increase
	Mattapan (MT)	→ Stable
Moderate	Roxbury (RX)	→ Stable
	Roslindale/West Roxbury (RS/WR)	↗ Increase
	Charlestown (CH)	↑ Large Increase
Low	Dorchester (DOR)	↓ Large Decrease
	Allston/Brighton (A/B)	↗ Increase
	Jamaica Plain (JP)	↓ Large Decrease
	Hyde Park (HP)	→ Stable
Very Low	East Boston (EB)	→ Stable

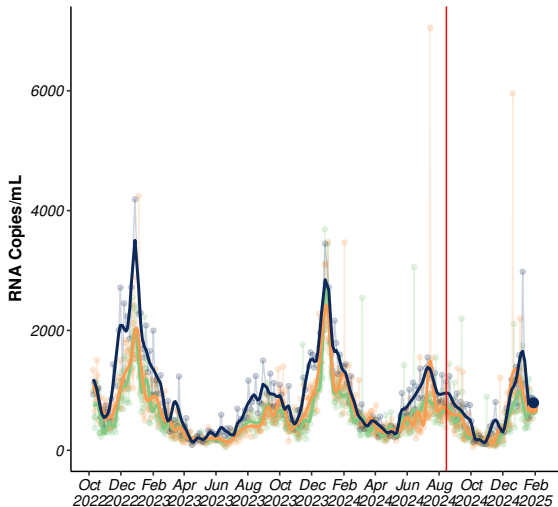
For additional details see:

- [Results by Neighborhood](#)
- [Detailed Neighborhood Levels and Trends Table](#)
- [Trend and Level Category Definitions](#)

COVID-19 Level (# sites)

Level	# sites
Very Low	1 sites
Low	4 sites
Moderate	3 sites
High	2 sites
Very High	

# COVID-19 Citywide Overview and Trends



CITYWIDE  
AVERAGE

**793**

RNA copies/mL

RANGE ACROSS 11  
NEIGHBORHOOD SITES

**174-1,208**

RNA copies/mL

Data through: **29-Jan-2025**

## 2-WEEK TRENDS

*Boston*  
**Decreasing**

**-33%**  
over the past 14 days

*MWRA North*  
**Stable**

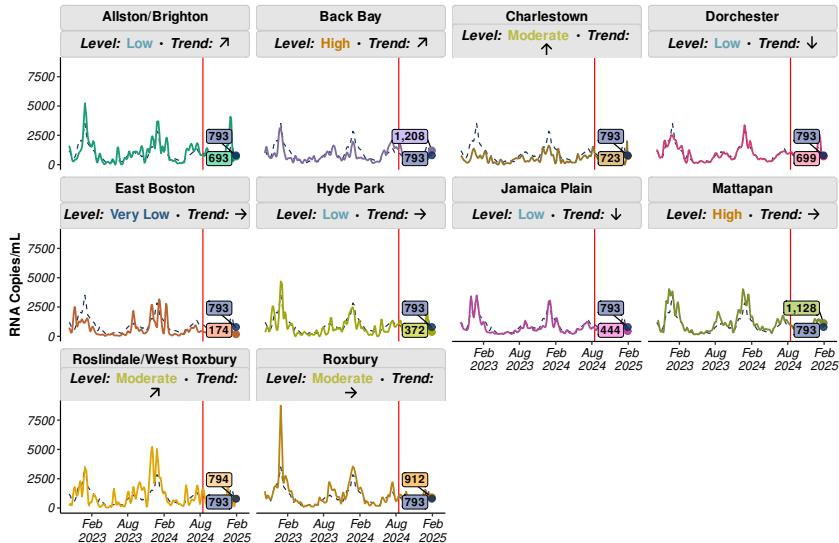
**+17%**  
over the past 14 days

*MWRA South*  
**Stable**

**-15%**  
over the past 14 days

Updated: 05-Feb-2025 | Samples through: 29-Jan-2025 (BPHC); 27-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.

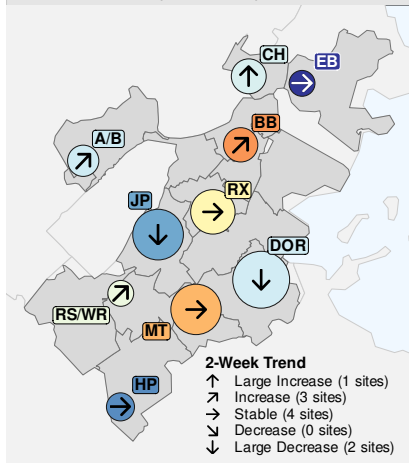
The vertical red line marks the date of August 1, 2024, when the laboratory that tests Boston's wastewater changed.

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 & Trends  
(29-Jan-2025)



NH	COVID-19 Wastewater Levels		2-Week Trends		
	Conc. (copies/mL)	Level	Trend	Diff. (copies/mL)	% Change
BOSTON	793	Moderate	Decrease	-396	-33%
BB	1,208	High	Increase	+443	+58%
MT	1,128	High	Stable	-15	-1%
RX	912	Moderate	Stable	-58	-6%
RS/WR	794	Moderate	Increase	+400	+102%
CH	723	Moderate	Large Increase	+722	+72,201%
DOR	699	Low	Large Decrease	-956	-58%
A/B	693	Low	Increase	+406	+142%
JP	444	Low	Large Decrease	-592	-57%
HP	372	Low	Stable	-81	-18%
EB	174	Very Low	Stable	-61	-26%

**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

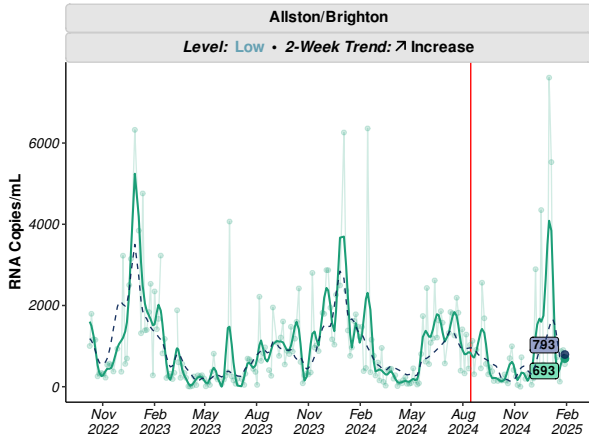


Level: **Low**

- Average value in **A/B** over the past week: **693** copies/mL.
- This value is **low** compared to past values and **similar** than the citywide average (**793** copies/mL).

Trend: **↗ Increase**

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



Updated: 05-Feb-2025 | Samples through: 29-Jan-2025 (A/B);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

# Back Bay

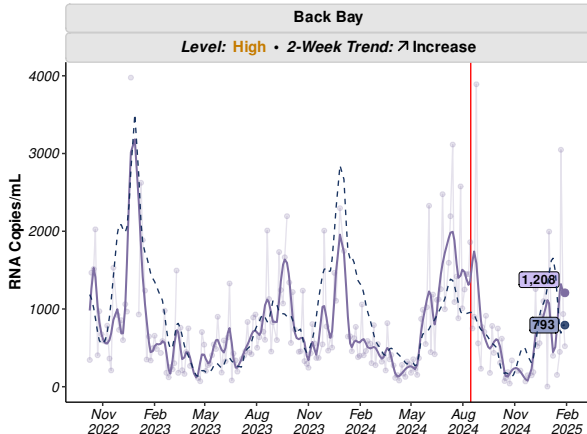


Level: **High**

- Average value in **BB** over the past week: **1,208** copies/mL.
- This value is **high** compared to past values and **higher** than the citywide average (**793** copies/mL).

Trend: **↗ Increase**

- Over the past two weeks, values in **BB** are **increasing**.
- Change compared to two weeks ago: **+443** copies/mL (**+58%**).



Updated: 05-Feb-2025 | Samples through: 29-Jan-2025 (BB);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

# Charlestown

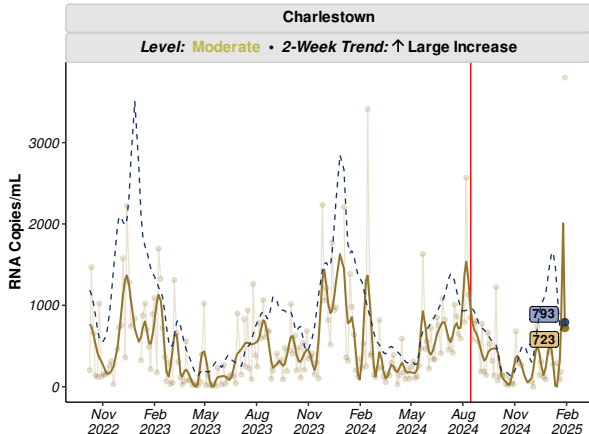


Level: **Moderate**

- Average value in **CH** over the past week: **723** copies/mL.
- This value is **moderate** compared to past values and **similar** than the citywide average (**793** copies/mL).

Trend: **↑ Large Increase**

- Over the past two weeks, values in **CH** are **increasing**.
- Change compared to two weeks ago: **+722** copies/mL (**+72,201%**).



Updated: 05-Feb-2025 | Samples through: 29-Jan-2025 (CH);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

# Dorchester

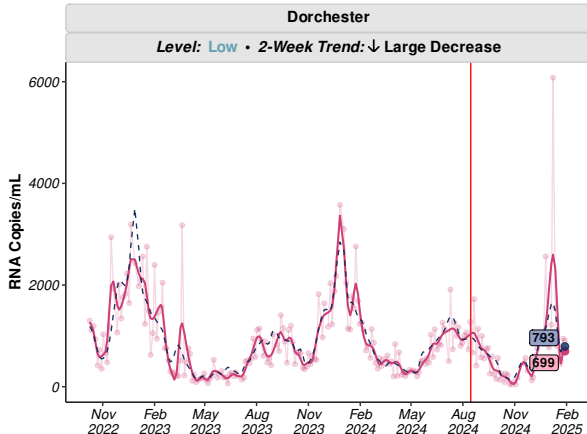


Level: **Low**

- Average value in **DOR** over the past week: **699** copies/mL.
- This value is **low** compared to past values and **similar** than the citywide average (**793** copies/mL).

Trend: **↓ Large Decrease**

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



Updated: 05-Feb-2025 | Samples through: 29-Jan-2025 (DOR);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

# East Boston

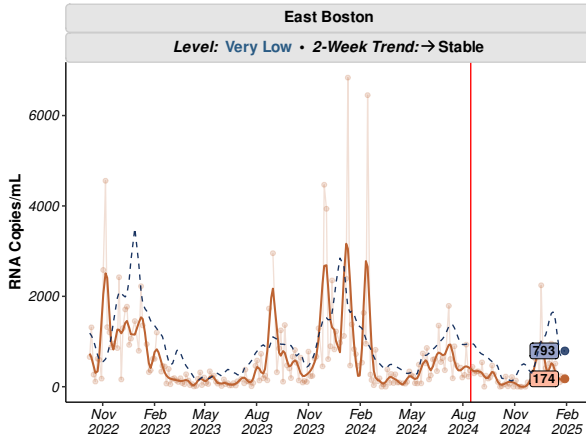


Level: **Very Low**

- Average value in **EB** over the past week: **174** copies/mL.
- This value is **very low** compared to past values and **lower** than the citywide average (**793** copies/mL).

Trend: **→ Stable**

- Over the past two weeks, values in **EB** are **stable**.
- Change compared to two weeks ago: **-61** copies/mL (**-26%**).



Updated: 05-Feb-2025 | Samples through: 29-Jan-2025 (EB);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

# Hyde Park

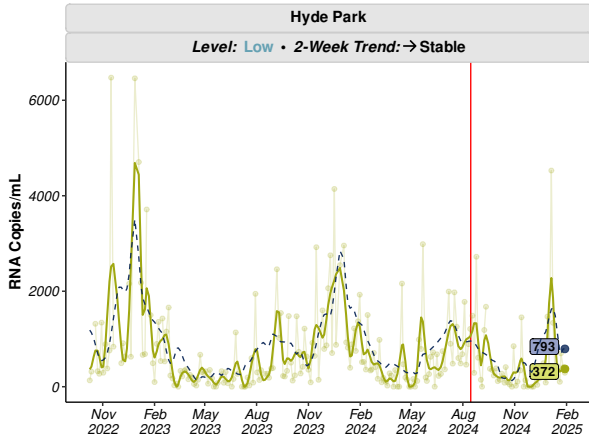


Level: **Low**

- Average value in **HP** over the past week: **372** copies/mL.
- This value is **low** compared to past values and **lower** than the citywide average (**793** copies/mL).

Trend: → **Stable**

- Over the past two weeks, values in **HP** are **stable**.
- Change compared to two weeks ago: **-81** copies/mL (**-18%**).



Updated: 05-Feb-2025 | Samples through: 29-Jan-2025 (HP);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

# Jamaica Plain

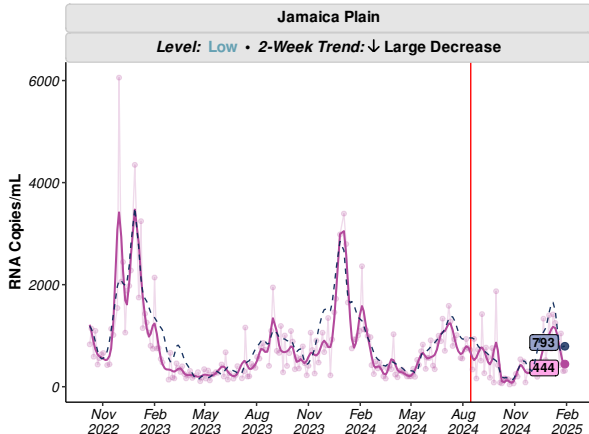


Level: **Low**

- Average value in **JP** over the past week: **444** copies/mL.
- This value is **low** compared to past values and **similar** than the citywide average (**793** copies/mL).

Trend: **↓ Large Decrease**

- Over the past two weeks, values in **JP** are **decreasing**.
- Change compared to two weeks ago: **-592** copies/mL (**-57%**).



See [recommended actions and resources](#) based on levels and trends in this neighborhood.

# Mattapan

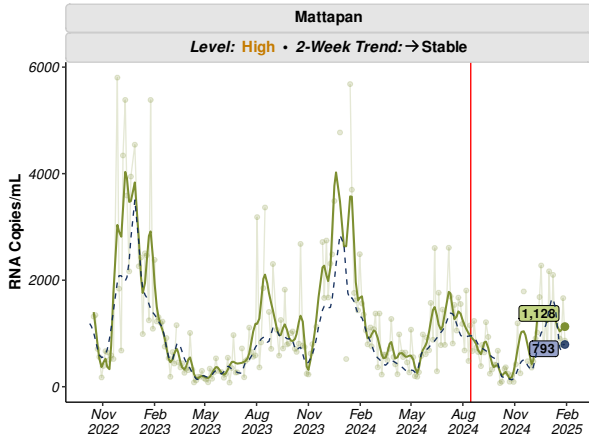


Level: **High**

- Average value in **MT** over the past week: **1,128** copies/mL.
- This value is **high** compared to past values and **similar** than the citywide average (**793** copies/mL).

Trend: → **Stable**

- Over the past two weeks, values in **MT** are **stable**.
- Change compared to two weeks ago: **-15** copies/mL (-1%).



Updated: 05-Feb-2025 | Samples through: 29-Jan-2025 (MT);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.



# Roslindale/West Roxbury

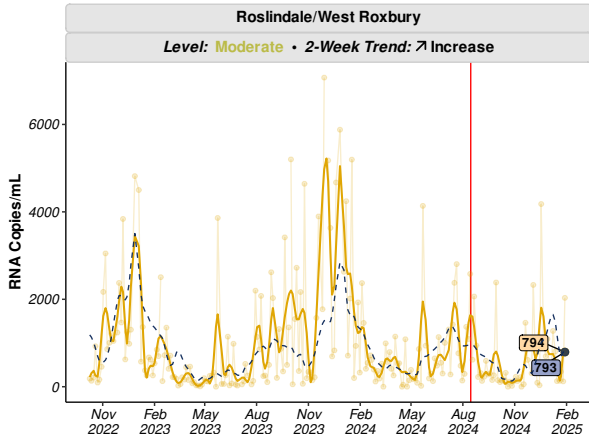


Level: **Moderate**

- Average value in **RS/WR** over the past week: **794** copies/mL.
- This value is **moderate** compared to past values and **similar** than the citywide average (**793** copies/mL).

Trend: **↗ Increase**

- Over the past two weeks, values in **RS/WR** are **increasing**.
- Change compared to two weeks ago: **+400** copies/mL (**+102%**).



Updated: 05-Feb-2025 | Samples through: 29-Jan-2025 (RS/WR);

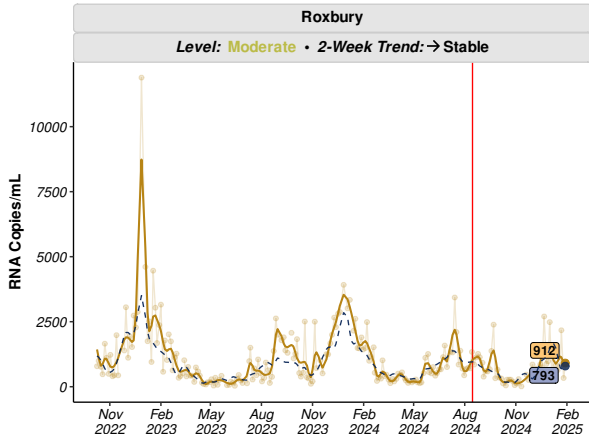
See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Level: **Moderate**

- Average value in **RX** over the past week: **912** copies/mL.
- This value is **moderate** compared to past values and **similar** than the citywide average (**793** copies/mL).

Trend: → **Stable**

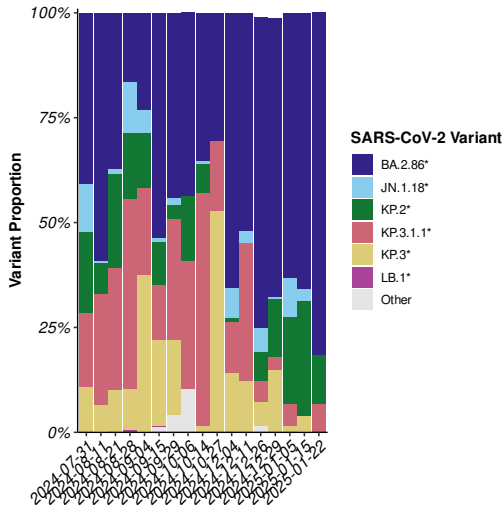
- Over the past two weeks, values in **RX** are **stable**.
- Change compared to two weeks ago: **-58** copies/mL (**-6%**).



Updated: 05-Feb-2025 | Samples through: 29-Jan-2025 (RX);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

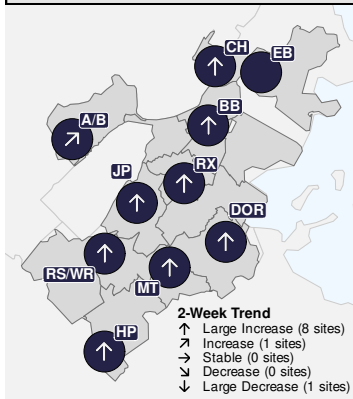
# Percent Variant Lineages (Citywide)



# Influenza Detections in Wastewater



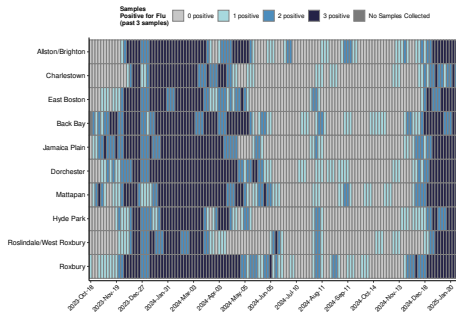
**Influenza Wastewater Detections & Trends**  
(29-Jan-2025)



# Samples Positive for Flu (Past 3 Samples)

0 sites	0 sites	0 sites	10 sites	0 sites
0 positive	1 positive	2 positive	3 positive	No Samples Collected

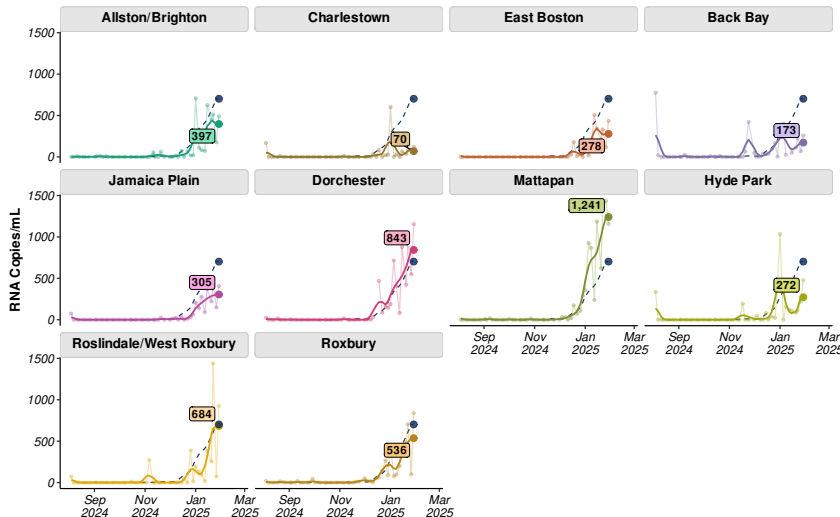
This map depicts the number of times influenza virus was detected in wastewater at the 3 most-recent samples (approximately the past week) at each of the neighborhood sampling locations.



# Influenza Trends in Wastewater by Neighborhood



Influenza Trends in Wastewater



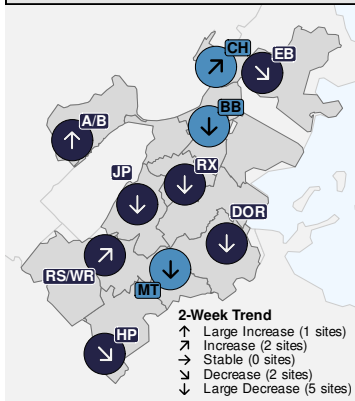
For each neighborhood, colored line and textbox shows the smoothed trend and most recent value in that neighborhood;

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



## RSV Wastewater Detections & Trends (29-Jan-2025)

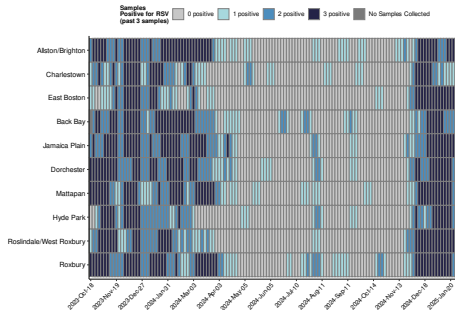


# Samples Positive for RSV (Past 3 Samples)

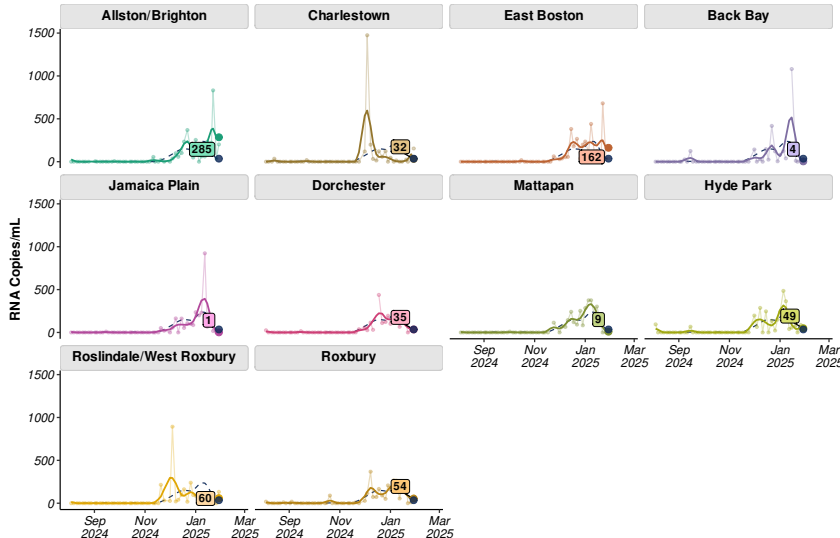
0 sites	0 sites	3 sites	7 sites	0 sites
0 positive	1 positive	2 positive	3 positive	No Samples Collected

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 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)
↑	Large Increase	>+500
↗	Increase	+150 to +500
→	Stable	-150 to +150
↘	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 [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

## RESOURCES

- 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](#)

# 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 [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
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## 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 [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
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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
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- 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](#)

# 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

## RESOURCES

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- Pick up a [free at-home test kit](#) in your neighborhood
- Find [treatment](#) for COVID-19 including [free telehealth](#) and [in home treatment](#)
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