



# Boston Wastewater Epidemiology Report

Updated: 08-Oct-2024 | Data Complete Through: 02-Oct-2024

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Boston Public  
Health Commission

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Level: **Very High**

Level: **High**

Level: **Moderate**

Level: **Low**

Level: **Very Low**

# A Note About These Reports

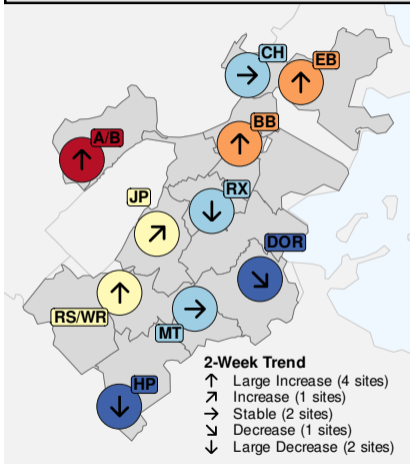


The laboratory that tests Boston's wastewater changed on August 1, 2024. Because of differences in the methods used at the old laboratory and the new one, data may not be comparable before and after the change. The change is marked with a vertical red line on figures in this report. BPHC cautions against 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 (02-Oct-2024)



## BOSTON CITYWIDE COVID-19 LEVEL & TRENDS

COVID-19 LEVEL	2-WEEK TRENDS
<h1>Low</h1> <p>619 copies/mL samples through 02-Oct-2024</p>	<p>Stable +32 copies/mL (+6%)</p>

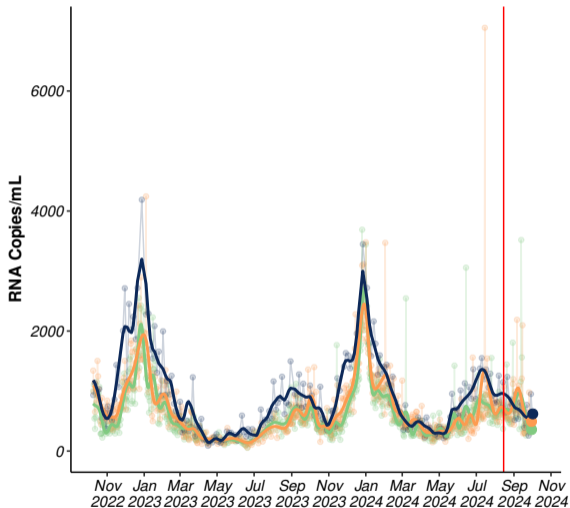
## NEIGHBORHOOD SITES COVID-19 LEVEL & TRENDS

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

For additional details see:

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

# Citywide Overview and Trends



CITYWIDE  
AVERAGE

**619**

RNA copies/mL

RANGE ACROSS 11  
NEIGHBORHOOD SITES

**223-1,768**

RNA copies/mL

Data through: **02-Oct-2024**

## 2-WEEK TRENDS

*Boston*  
**Stable**

**+6%**  
over the past 14 days

*MWRA North*  
**Decreasing**

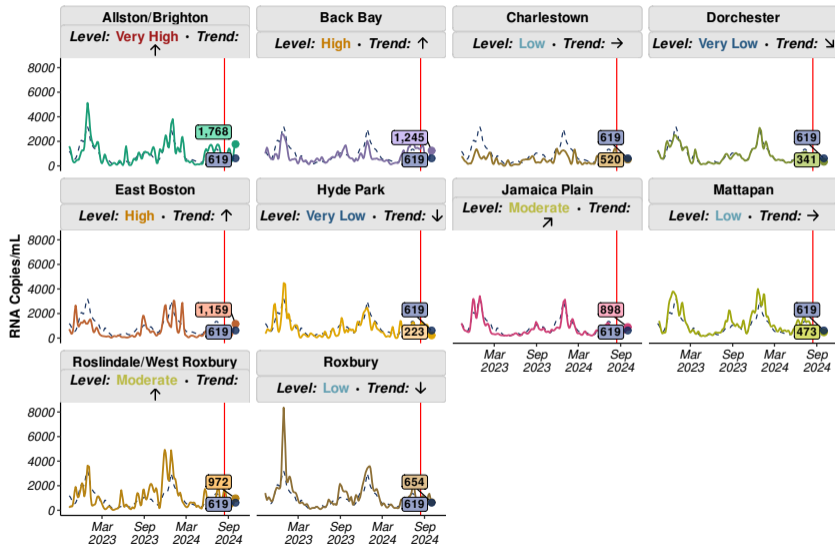
**-56%**  
over the past 14 days

*MWRA South*  
**Decreasing**

**-31%**  
over the past 14 days

Updated: 08-Oct-2024 | Samples through: 02-Oct-2024 (BPHC); 30-Sep-2024 (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.

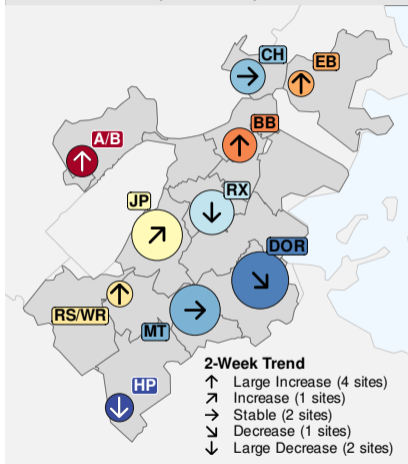
The vertical dashed grey line marks the date of August 1, 2024, when the laboratory that tests Boston's wastewater changed.

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  
(02-Oct-2024)



NH	COVID-19 Wastewater Levels		2-Week Trends		
	Conc. (copies/mL)	Level	Trend	Diff. (copies/mL)	% Change
<b>BOSTON</b>	<b>619</b>	<b>Low</b>	<b>Stable</b>	<b>+32</b>	<b>+6%</b>
A/B	1,768	Very High	Large Increase	+1,380	+355%
BB	1,245	High	Large Increase	+700	+128%
EB	1,159	High	Large Increase	+877	+312%
RS/WR	972	Moderate	Large Increase	+656	+207%
JP	898	Moderate	Increase	+451	+101%
RX	654	Low	Large Decrease	-584	-47%
CH	520	Low	Stable	+84	+19%
MT	473	Low	Stable	-96	-17%
DOR	341	Very Low	Decrease	-158	-32%
HP	223	Very Low	Large Decrease	-514	-70%

**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

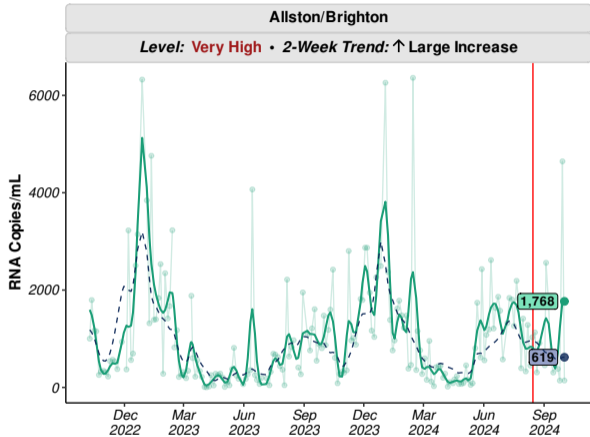


Level: **Very High**

- Average value in **A/B** over the past week: **1,768** copies/mL.
- This value is **very high** compared to past values and **higher** than the citywide average (**619** copies/mL).

Trend: **↑ Large Increase**

- Over the past two weeks, values in **A/B** are **increasing**.
- Change compared to two weeks ago: **+1,380** copies/mL (**+355%**).



Updated: 08-Oct-2024 | Samples through: 02-Oct-2024 (A/B);

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

# Back Bay

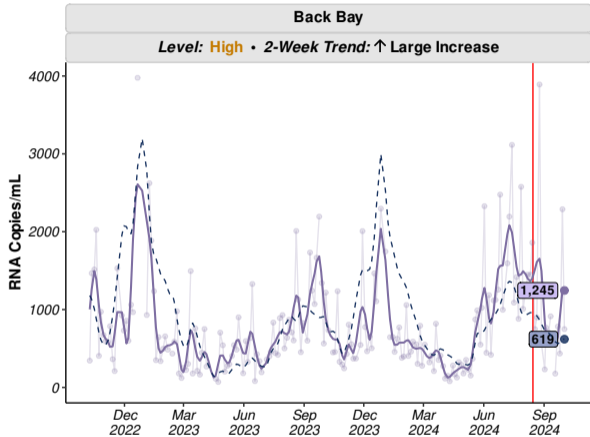


Level: **High**

- Average value in **BB** over the past week: **1,245** copies/mL.
- This value is **high** compared to past values and **higher** than the citywide average (**619** copies/mL).

Trend: **↑ Large Increase**

- Over the past two weeks, values in **BB** are **increasing**.
- Change compared to two weeks ago: **+700** copies/mL (**+128%**).



Updated: 08-Oct-2024 | Samples through: 02-Oct-2024 (BB);

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

# Charlestown

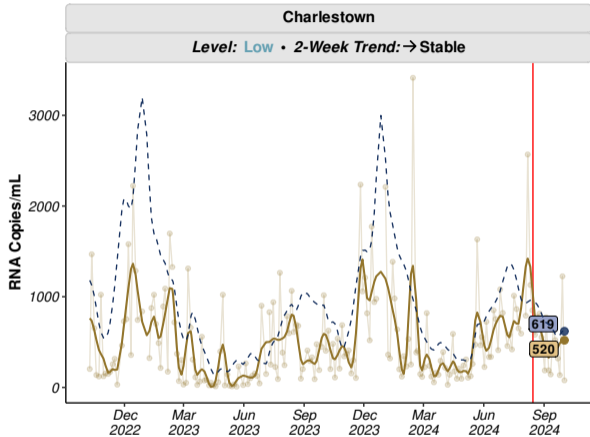


Level: **Low**

- Average value in **CH** over the past week: **520** copies/mL.
- This value is **low** compared to past values and **similar** than the citywide average (**619** copies/mL).

Trend: → **Stable**

- Over the past two weeks, values in **CH** are **stable**.
- Change compared to two weeks ago: **+84** copies/mL (+19%).



Updated: 08-Oct-2024 | Samples through: 02-Oct-2024 (CH);

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

# Dorchester

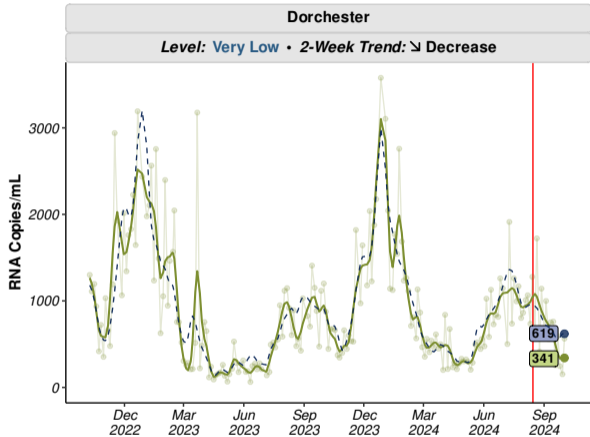


Level: **Very Low**

- Average value in **DOR** over the past week: **341** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**619** copies/mL).

Trend: **↘ Decrease**

- Over the past two weeks, values in **DOR** are **decreasing**.
- Change compared to two weeks ago: **-158** copies/mL (**-32%**).



Updated: 08-Oct-2024 | Samples through: 02-Oct-2024 (DOR);

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

# East Boston

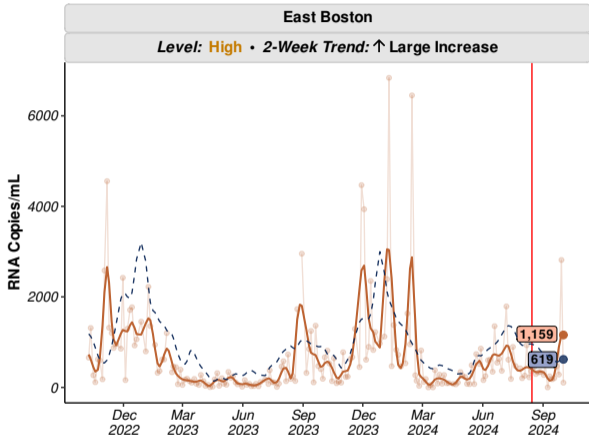


Level: **High**

- Average value in **EB** over the past week: **1,159** copies/mL.
- This value is **high** compared to past values and **higher** than the citywide average (**619** copies/mL).

Trend: **↑ Large Increase**

- Over the past two weeks, values in **EB** are **increasing**.
- Change compared to two weeks ago: **+877** copies/mL (**+312%**).



Updated: 08-Oct-2024 | Samples through: 02-Oct-2024 (EB);

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

# Hyde Park

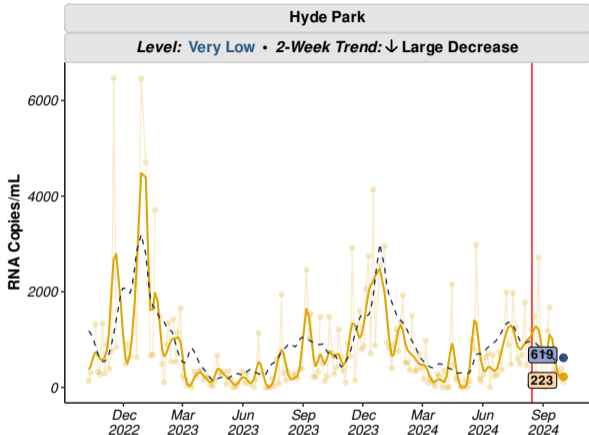


Level: **Very Low**

- Average value in **HP** over the past week: **223** copies/mL.
- This value is **very low** compared to past values and **lower** than the citywide average (**619** copies/mL).

Trend: **↓ Large Decrease**

- Over the past two weeks, values in **HP** are **decreasing**.
- Change compared to two weeks ago: **-514** copies/mL (**-70%**).



Updated: 08-Oct-2024 | Samples through: 02-Oct-2024 (HP);

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

# Jamaica Plain

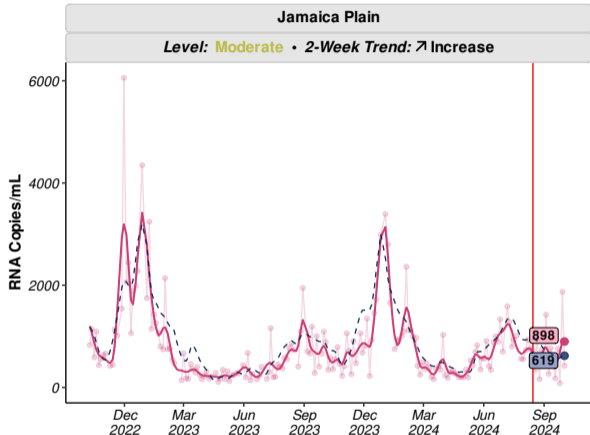


Level: **Moderate**

- Average value in **JP** over the past week: **898** copies/mL.
- This value is **moderate** compared to past values and **similar** than the citywide average (**619** copies/mL).

Trend: ↗ **Increase**

- Over the past two weeks, values in **JP** are **increasing**.
- Change compared to two weeks ago: **+451** copies/mL (**+101%**).



Updated: 08-Oct-2024 | Samples through: 02-Oct-2024 (JP);

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

# Mattapan

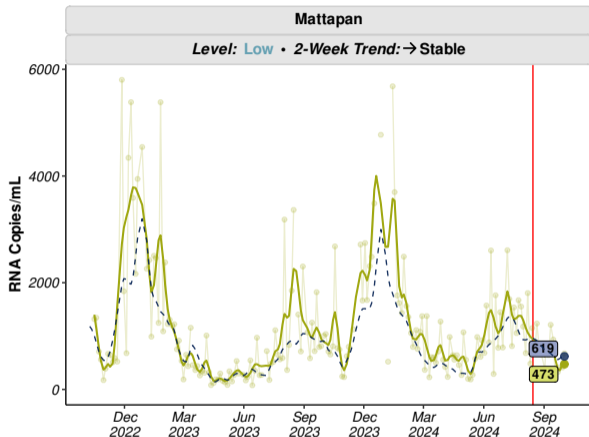


Level: **Low**

- Average value in **MT** over the past week: **473** copies/mL.
- This value is **low** compared to past values and **similar** than the citywide average (**619** copies/mL).

Trend: → **Stable**

- Over the past two weeks, values in **MT** are **stable**.
- Change compared to two weeks ago: **-96** copies/mL (**-17%**).



Updated: 08-Oct-2024 | Samples through: 02-Oct-2024 (MT);

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



# Roslindale/West Roxbury

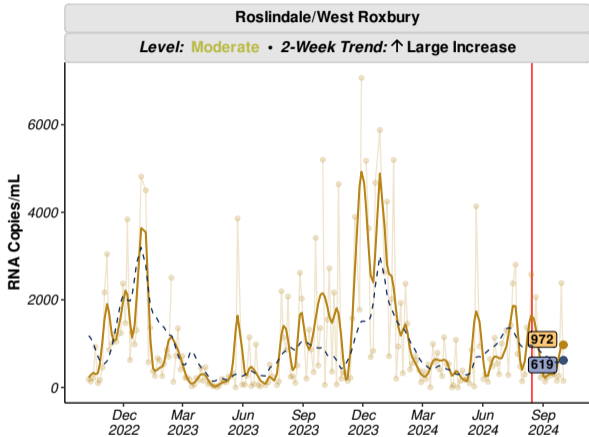


Level: **Moderate**

- Average value in **RS/WR** over the past week: **972** copies/mL.
- This value is **moderate** compared to past values and **higher** than the citywide average (**619** copies/mL).

Trend: **↑ Large Increase**

- Over the past two weeks, values in **RS/WR** are **increasing**.
- Change compared to two weeks ago: **+656** copies/mL (**+207%**).



Updated: 08-Oct-2024 | Samples through: 02-Oct-2024 (RS/WR);

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

# Roxbury

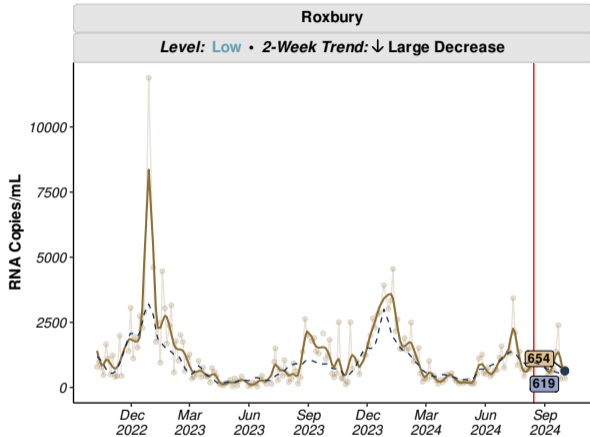


Level: **Low**

- Average value in **RX** over the past week: **654** copies/mL.
- This value is **low** compared to past values and **similar** than the citywide average (**619** copies/mL).

Trend: **↓ Large Decrease**

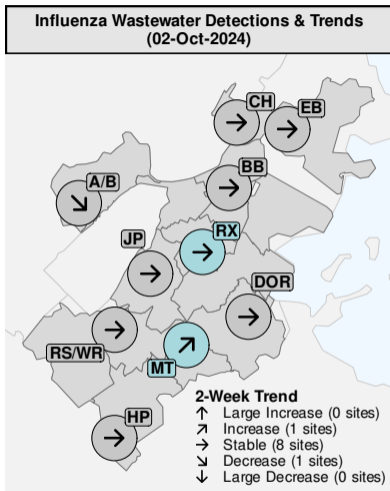
- Over the past two weeks, values in **RX** are **decreasing**.
- Change compared to two weeks ago: **-584** copies/mL (**-47%**).



Updated: 08-Oct-2024 | Samples through: 02-Oct-2024 (RX);

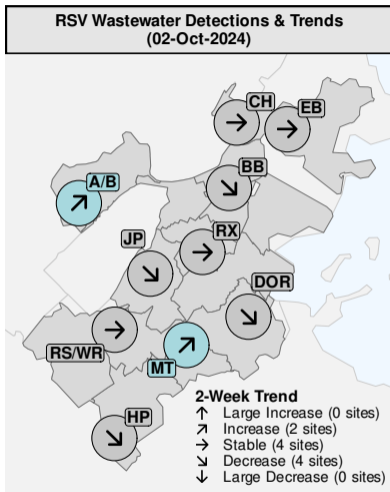
See [recommended actions and resources](#) based on levels and trends in this neighborhood.

# 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.

# RSV Detections in Wastewater



RSV = Respiratory Syncytial Virus

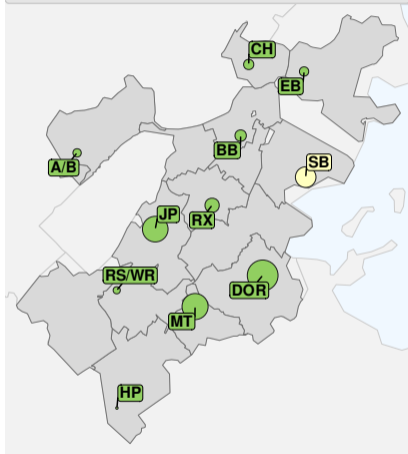
This map depicts the number of times RSV was detected in wastewater at the 3 most-recent samples (approximately the past week) at each of the neighborhood sampling locations.



# Site Status and Details



Status of Sampling Sites (08-Oct-2024)



Site Status  
(N=11)



Active  
(n=10)



Paused  
(n=1)

# 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](#).
- 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 [isolation](#) if you have COVID-19 and for [what to do if you are exposed](#) to someone with COVID-19

## RESOURCES

- Find a [vaccination clinic](#) in your neighborhood
- Find a [testing site](#) or pickup 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: Know the Facts Find the Truth](#)

# 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](#).
- 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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## 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](#).
- 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 [isolation](#) if you have COVID-19 and for [what to do if you are exposed](#) to someone with COVID-19

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## 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](#).
- 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 [isolation](#) if you have COVID-19 and for [what to do if you are exposed](#) to someone with COVID-19

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- Call or visit the [Mayor's Health Line](#)
- Learn more about COVID-19 and find additional resources: [COVID-19: Know the Facts Find the Truth](#)



## 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](#).
- 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 [isolation](#) if you have COVID-19 and for [what to do if you are exposed](#) to someone with COVID-19

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- Call or visit the [Mayor's Health Line](#)
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