



Boston Wastewater Epidemiology Report

Updated: 29-Oct-2024 | Data Complete Through: 23-Oct-2024

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Boston Public
Health Commission

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A Note About These Reports

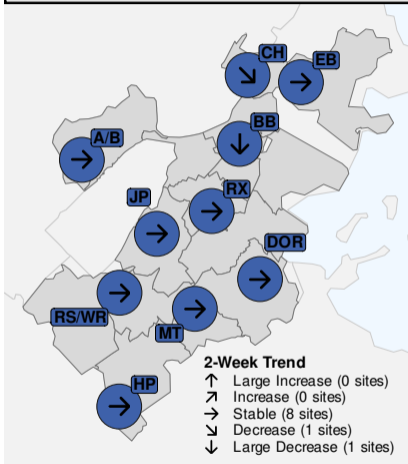


The laboratory that tests Boston's wastewater changed on August 1, 2024. Because of differences in the methods used at the old laboratory and the new one, data may not be comparable before and after the change. The change is marked with a vertical red line on figures in this report. BPHC cautions against 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 (23-Oct-2024)



COVID-19 Level (# sites) **10 sites**

Very Low Low Moderate High Very High

BOSTON CITYWIDE COVID-19 LEVEL & TRENDS

COVID-19 LEVEL

Very Low

164 copies/mL
samples through 23-Oct-2024

2-WEEK TRENDS



Stable
-49 copies/mL (-23%)

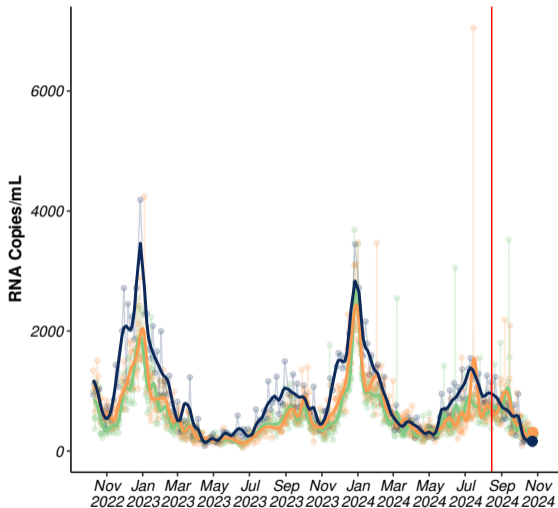
NEIGHBORHOOD SITES COVID-19 LEVEL & TRENDS

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

164

RNA copies/mL

RANGE ACROSS 11
NEIGHBORHOOD SITES

54-718

RNA copies/mL

Data through: **23-Oct-2024**

2-WEEK TRENDS

Boston
Stable

-23%
over the past 14 days

MWRA North
Stable

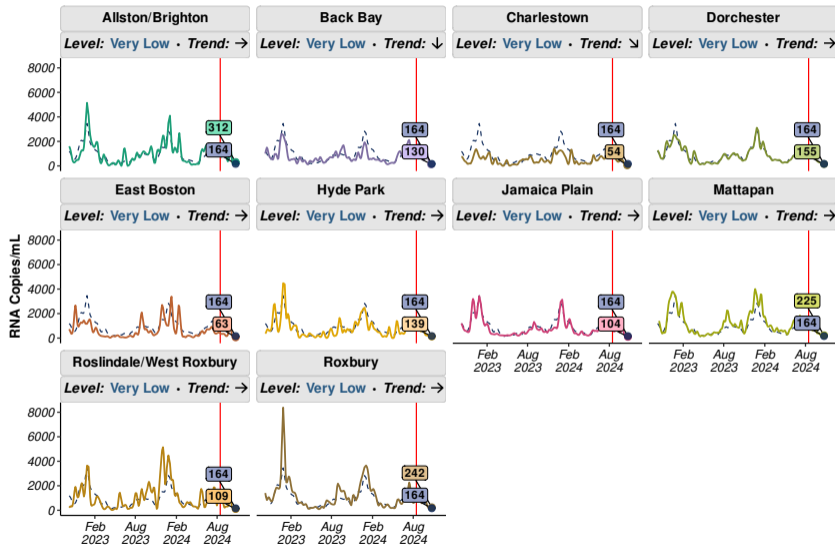
-22%
over the past 14 days

MWRA South
Stable

+5%
over the past 14 days

Updated: 29-Oct-2024 | Samples through: 23-Oct-2024 (BPHC); 24-Oct-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.

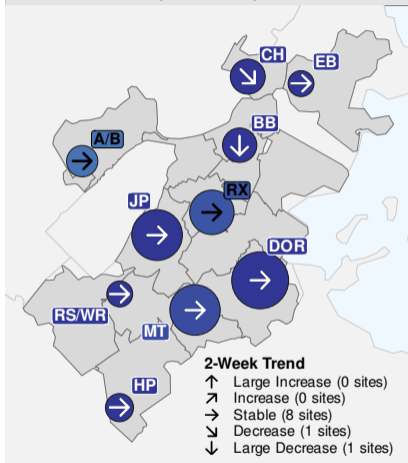
The vertical red line marks the date of August 1, 2024, when the laboratory that tests Boston's wastewater changed.

To see details and interpretation of these results for an individual neighborhood see [Results by Neighborhood](#).

Neighborhood Levels and Data Table



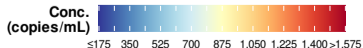
COVID-19 Wastewater Levels & Trends
(23-Oct-2024)



NH	COVID-19 Wastewater Levels		2-Week Trends		
	Conc. (copies/mL)	Level	Trend	Diff. (copies/mL)	% Change
BOSTON	164	Very Low	Stable	-49	-23%
A/B	312	Very Low	Stable	+95	+43%
RX	242	Very Low	Stable	+67	+38%
MT	225	Very Low	Stable	-14	-6%
DOR	155	Very Low	Stable	-79	-34%
HP	139	Very Low	Stable	-65	-32%
BB	130	Very Low	Large Decrease	-586	-82%
RS/WR	109	Very Low	Stable	-75	-41%
JP	104	Very Low	Stable	-59	-36%
EB	63	Very Low	Stable	-12	-16%
CH	54	Very Low	Decrease	-205	-79%

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

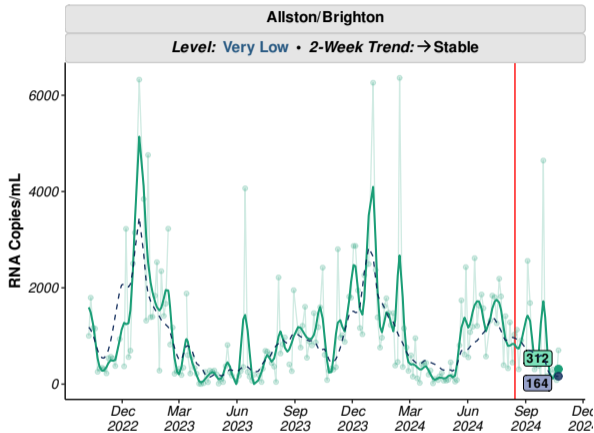


Level: **Very Low**

- Average value in A/B over the past week: **312** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**164** copies/mL).

Trend: **→ Stable**

- Over the past two weeks, values in A/B are **stable**.
- Change compared to two weeks ago: **+95** copies/mL (**+43%**).



Updated: 29-Oct-2024 | Samples through: 23-Oct-2024 (A/B);

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

Back Bay

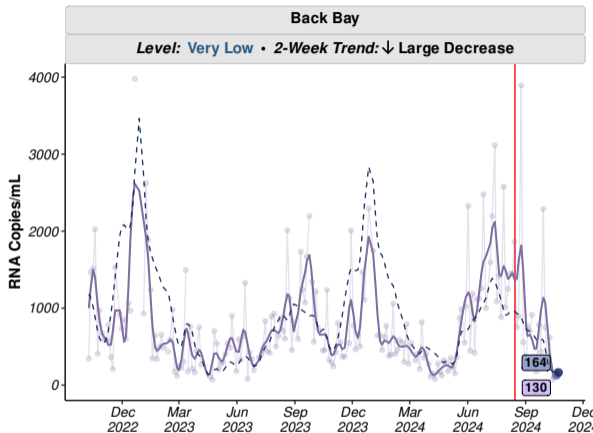


Level: **Very Low**

- Average value in **BB** over the past week: **130** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**164** copies/mL).

Trend: **↓ Large Decrease**

- Over the past two weeks, values in **BB** are **decreasing**.
- Change compared to two weeks ago: **-586** copies/mL (**-82%**).



Updated: 29-Oct-2024 | Samples through: 20-Oct-2024 (BB);

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

Charlestown

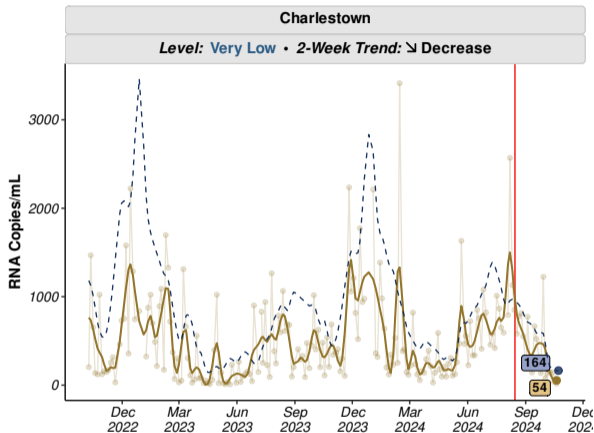


Level: **Very Low**

- Average value in **CH** over the past week: **54** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**164** copies/mL).

Trend: **↘ Decrease**

- Over the past two weeks, values in **CH** are **decreasing**.
- Change compared to two weeks ago: **-205** copies/mL (**-79%**).



Updated: 29-Oct-2024 | Samples through: 20-Oct-2024 (CH);

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

Dorchester

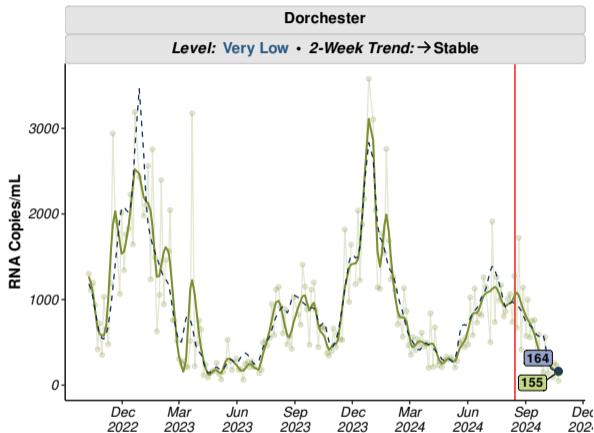


Level: **Very Low**

- Average value in **DOR** over the past week: **155** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**164** copies/mL).

Trend: → **Stable**

- Over the past two weeks, values in **DOR** are **stable**.
- Change compared to two weeks ago: **-79** copies/mL (-34%).



Updated: 29-Oct-2024 | Samples through: 23-Oct-2024 (DOR);

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

East Boston

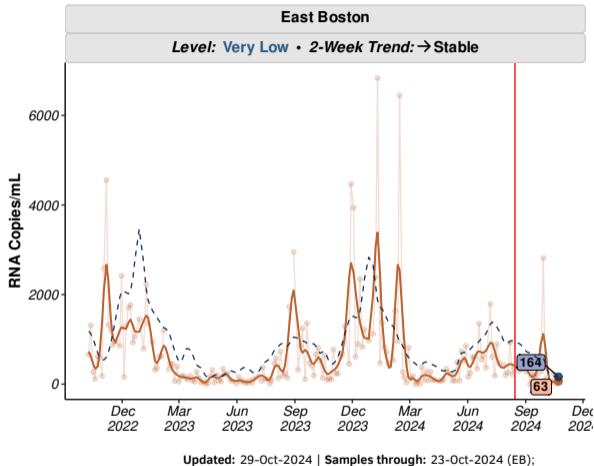


Level: **Very Low**

- Average value in **EB** over the past week: **63** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**164** copies/mL).

Trend: → **Stable**

- Over the past two weeks, values in **EB** are **stable**.
- Change compared to two weeks ago: **-12** copies/mL (-16%).



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

Hyde Park

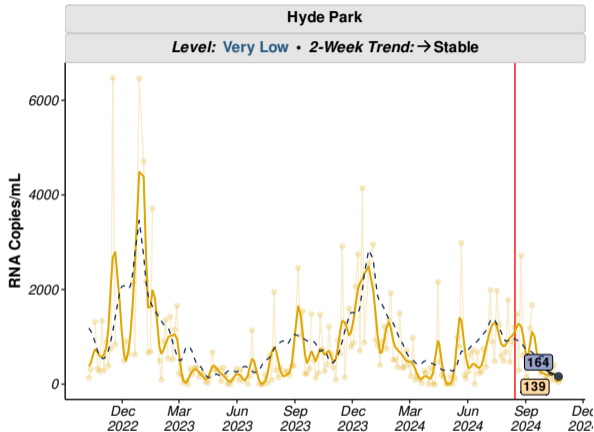


Level: **Very Low**

- Average value in **HP** over the past week: **139** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**164** copies/mL).

Trend: → **Stable**

- Over the past two weeks, values in **HP** are **stable**.
- Change compared to two weeks ago: **-65** copies/mL (**-32%**).



Updated: 29-Oct-2024 | Samples through: 23-Oct-2024 (HP);

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

Jamaica Plain

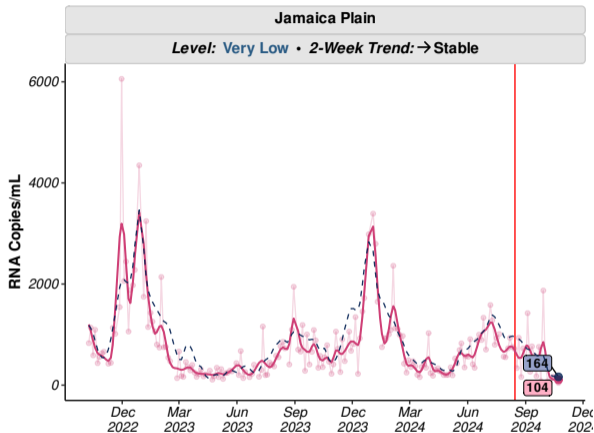


Level: **Very Low**

- Average value in **JP** over the past week: **104** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**164** copies/mL).

Trend: → **Stable**

- Over the past two weeks, values in **JP** are **stable**.
- Change compared to two weeks ago: **-59** copies/mL (**-36%**).



Updated: 29-Oct-2024 | Samples through: 23-Oct-2024 (JP);

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

Mattapan

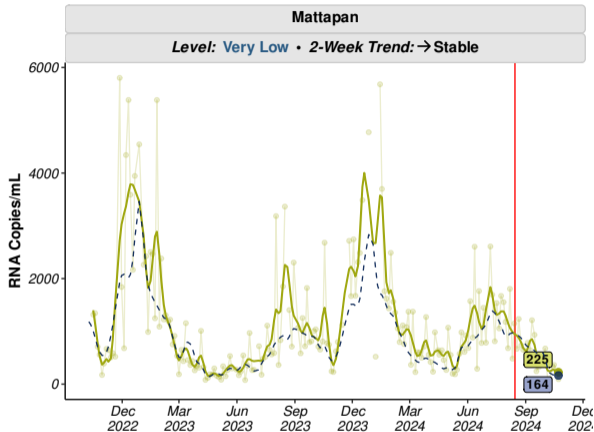


Level: **Very Low**

- Average value in **MT** over the past week: **225** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**164** copies/mL).

Trend: → **Stable**

- Over the past two weeks, values in **MT** are **stable**.
- Change compared to two weeks ago: **-14** copies/mL (**-6%**).



Updated: 29-Oct-2024 | Samples through: 23-Oct-2024 (MT);

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

Roslindale/West Roxbury

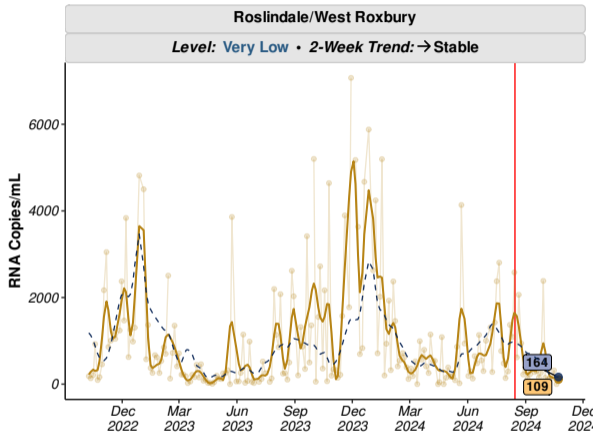


Level: **Very Low**

- Average value in **RS/WR** over the past week: **109** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**164** copies/mL).

Trend: **→ Stable**

- Over the past two weeks, values in **RS/WR** are **stable**.
- Change compared to two weeks ago: **-75** copies/mL (**-41%**).



Updated: 29-Oct-2024 | Samples through: 23-Oct-2024 (RS/WR);

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

Roxbury

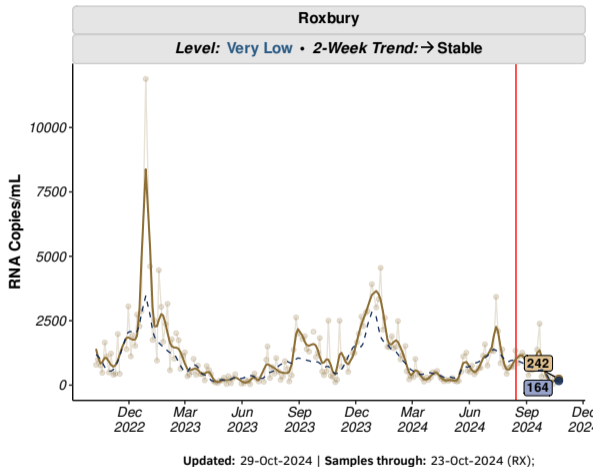


Level: **Very Low**

- Average value in **RX** over the past week: **242** copies/mL.
- This value is **very low** compared to past values and **similar** than the citywide average (**164** copies/mL).

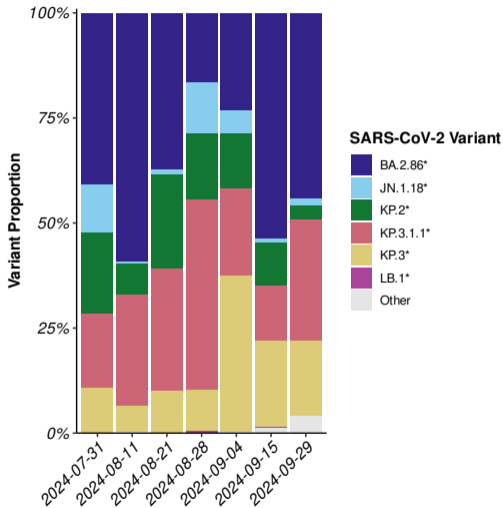
Trend: → **Stable**

- Over the past two weeks, values in **RX** are **stable**.
- Change compared to two weeks ago: **+67** copies/mL (**+38%**).



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

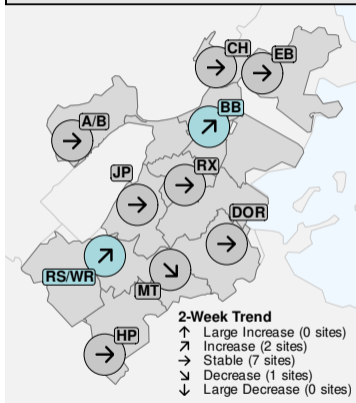
Percent Variant Lineages (Citywide)



Influenza Detections in Wastewater



Influenza Wastewater Detections & Trends
(23-Oct-2024)



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.

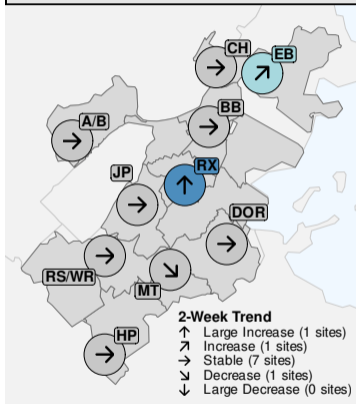
Samples Positive for Flu (Past 3 Samples)

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

RSV Detections in Wastewater



RSV Wastewater Detections & Trends
(23-Oct-2024)



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.

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
- 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: 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

RESOURCES

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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

RESOURCES

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