



# Wastewater Epidemiology COVID-19 Report

**Updated:** 20-Sep-2023 | **Data Complete Through:** 17-Sep-2023



*Boston Public  
Health Commission*

# Report Contents



## Summary

Overview and Trends

## Results by Neighborhood

BPHC Neighborhood Trends

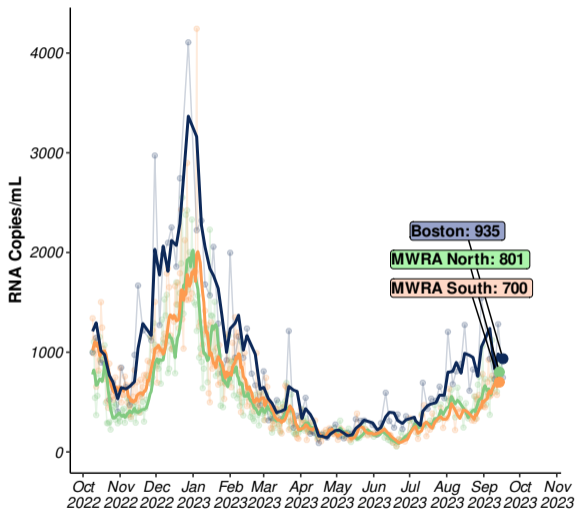
## Variant Results

Percent Variant Lineages (Citywide)

## Status & Details

Neighborhood Site Status and Details

# Overview and Trends



CITYWIDE  
AVERAGE

**935**

*RNA copies/mL*

RANGE ACROSS 11  
NEIGHBORHOOD SITES

**238-1,533**

*RNA copies/mL*

Data through: 17-Sep-2023

## 2-WEEK TRENDS

*Boston*  
**Stable**

**-26%**  
over the past 14 days

*MWRA North*  
**Increasing**

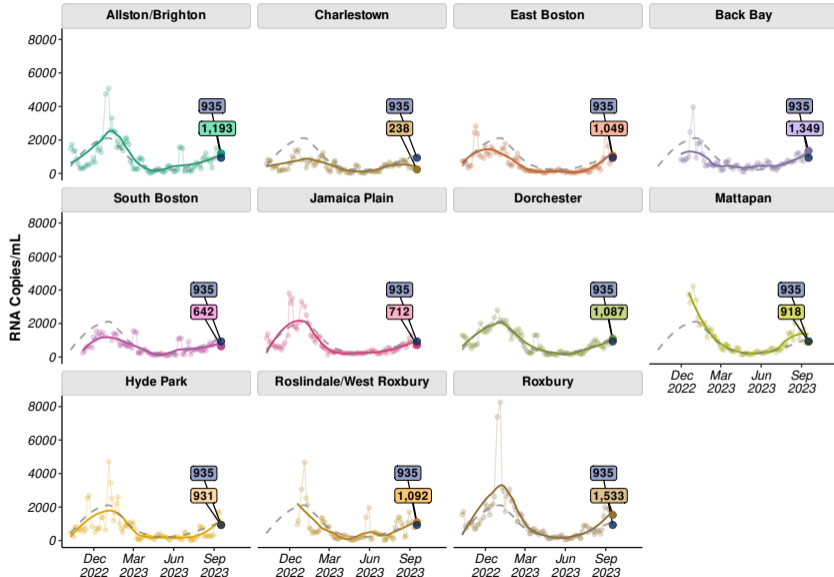
**+25%**  
over the past 14 days

*MWRA South*  
**Increasing**

**+44%**  
over the past 14 days

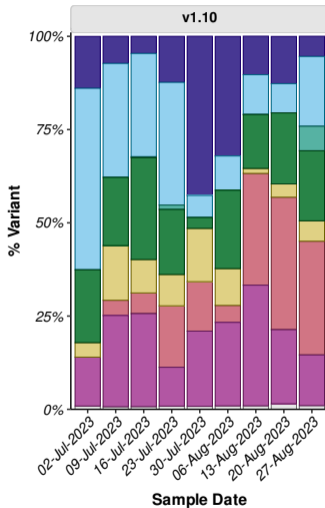
Updated: 20-Sep-2023 | Samples through: 17-Sep-2023 (BPHC); 14-Sep-2023 (MWRA) | MWRA Data: <https://www.mwra.com/biobot/biobotdata.htm>

# BPHC Neighborhood Trends



Points shown are 3-sample average values (i.e., 8-day moving average); line shows smoothed trend for 8-day moving average; dotted grey line in each panel represents average across all Boston sites weighted by population.

# Percent Variant Lineages (Citywide)



Variant	%
XBB*	5.4%
XBB.1.5	18.7%
XBB.1.9	6.6%
XBB.1.9.1	18.8%
XBB.1.9.2	5.5%
EG.5	30.5%
XBB.1.16	13.6%
Other	1.0%

Average variant percentage across all BPHC sites weighted by population size | Table shows variant percentages for samples collected the week of 27-Aug-2023 (most recent available data); Variant results are reported weekly with a 3-week lag due to laboratory processing and analysis.

*Sequencing Analysis Protocol Version: v1.10 (20-Jul-2023):*

- XBB includes all XBB sublineages aside from those specifically reported
- "Other variants" contains all variants not explicitly quantified.

*Version Changes:* • Split out XBB.1.5 from XBB\*; Split out XBB.1.9.1 and XBB.1.9.2 from XBB.1.9; EG.5 split out from XBB.1.9.2;

- Removed BA.2, BA.5, BQ.1\*

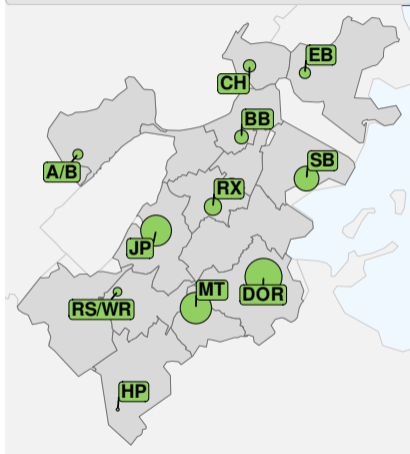
*For Additional Info See:*

<https://www.biobot.io/covid19-variants-report-notes/>

# Neighborhood Site Status and Details



## Status of Sampling Sites (20-Sep-2023)



#	Neighborhood	Date Site Confirmed	Site Status	Pop. Covered	% Neighborhood Covered
01	A/B	02-Oct-2022	Active	2,684	4.0%
02	CH	02-Oct-2022	Active	3,736	18.3%
03	EB	02-Oct-2022	Active	3,178	6.3%
04	BB	20-Nov-2022	Active	4,551	8.1%
05	SB	30-Oct-2022	Active	14,962	35.8%
07	JP	02-Oct-2022	Active	23,573	56.9%
08	DOR	02-Oct-2022	Active	34,562	23.8%
09	MT	11-Dec-2022	Active	24,441	80.5%
10	HP	02-Oct-2022	Active	1,262	3.5%
11	RS/WR	11-Dec-2022	Active	2,165	3.5%
12	RX	02-Oct-2022	Active	7,036	16.5%

Site Status (N=11) **a** Active (n=11)