



Wastewater Epidemiology COVID-19 Report

Updated: 27-Jan-2023 | Data Complete Through: 22-Jan-2023



*Boston Public
Health Commission*

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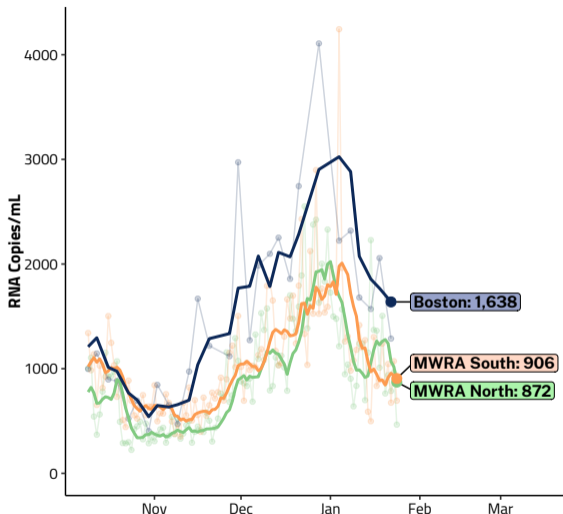
Variant Results

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Overview and Trends



**CITYWIDE
AVERAGE**

1,638
RNA copies/mL

**RANGE ACROSS 11
NEIGHBORHOOD SITES**

435-2,817
RNA copies/mL

Data through: **22-Jan-2023**

2-WEEK TRENDS

Boston
Decreasing

-42%
over the past 14 days

MWRA North
Stable

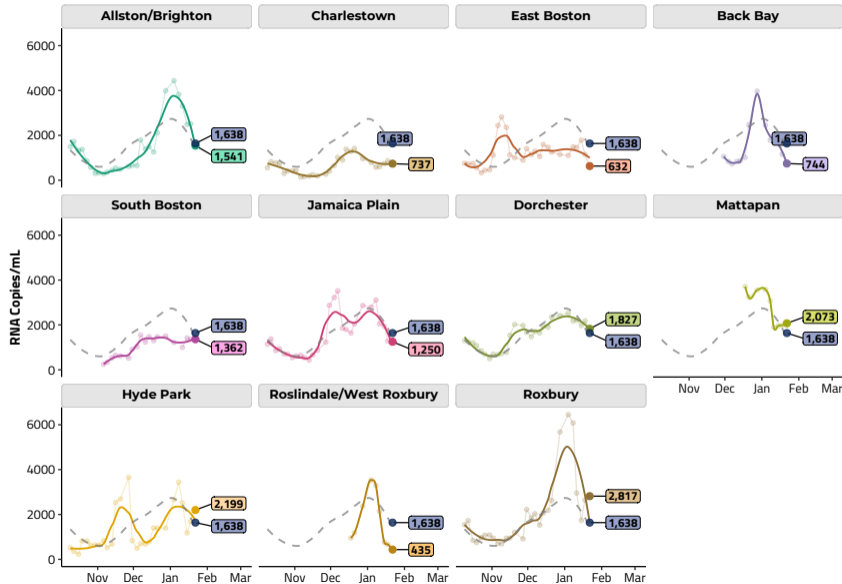
+13%
over the past 14 days

MWRA South
Decreasing

-35%
over the past 14 days

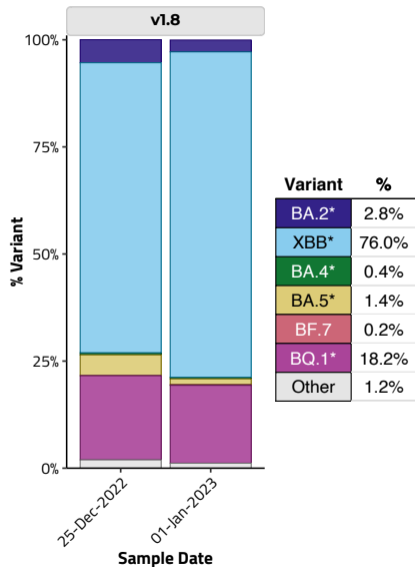
Updated: 27-Jan-2023 | Samples through: 22-Jan-2023 (BPHC); 24-Jan-2023 (MWRA) | MWRA Data: <https://www.mwra.com/biobot/biobotdata.htm>

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)



Average variant percentage across all BPHC sites weighted by population size | Table shows variant percentages for samples collected the week of 01-Jan-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: v1.8 (10-Jan-2023):

- BA.2* includes BA.2, BA.2.12, BA.2.12.1, and other BA.2 sub-lineages.
- BA.4* includes BA.4 and its sublineages, including BA.4.6.
- BA.5* includes the sublineages of BA.5, except BQ.1* and BF.7.
- BQ.1* includes BQ.1 and its sublineages, including BQ.1.1.
- XBB* includes all XBB sublineages, including XBB.1.5. The progenitor lineages of XBB are BA.2.75 and BA.2.10. Since neither progenitor is circulating, we combine abundances of genomic fragments of these BA.2 lineages with XBB.
- "Other variants" contains all variants not explicitly quantified.

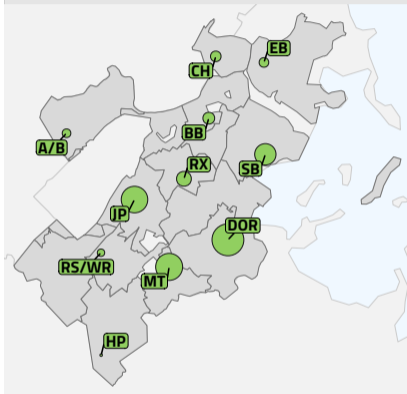
Version Changes: XBB sublineages (including XBB.1.5) reclassified to XBB*;
Previously, XBB sub-lineages were classified as BA.2* in v1.7

For Additional Info See: <https://www.biobot.io/covid19-variants-report-notes/>

Neighborhood Site Status and Details



Status of Wastewater Sampling Locations
(27-Jan-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%

*Sampling at the South Boston site was paused starting on 28-Dec-2022 due to construction and resumed on 11-Jan-2023

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