Wastewater Epidemiology COVID-19 Report

Updated: 25-Sep-2023 | **Data Complete Through**: 20-Sep-2023

Boston Public
Health Commission

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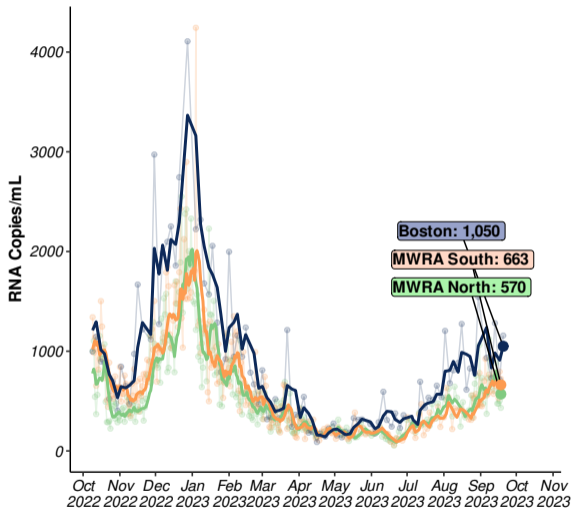   BPHC Neighborhood Trends

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Overview and Trends

CITYWIDE AVERAGE	RANGE ACROSS 11 NEIGHBORHOOD SITES
1,050 *RNA copies/mL*	**300-1,544** *RNA copies/mL*
Data through: **20-Sep-2023**	

2-WEEK TRENDS	
Boston **Stable**	**-11%** over the past 14 days
MWRA North **Stable**	**+8%** over the past 14 days
MWRA South **Increasing**	**+21%** over the past 14 days

Boston: 1,050
MWRA South: 663
MWRA North: 570

BPHC Neighborhood Trends

RNA Copies/mL

Allston/Brighton — 1,122 / 1,050
Charlestown — 1,050 / 300
East Boston — 1,050 / 908
Back Bay — 1,326 / 1,050

South Boston — 1,050 / 813
Jamaica Plain — 1,050 / 825
Dorchester — 1,148 / 1,050
Mattapan — 1,264 / 1,050

Hyde Park — 1,050 / 661
Roslindale/West Roxbury — 1,544 / 1,050
Roxbury — 1,348 / 1,050
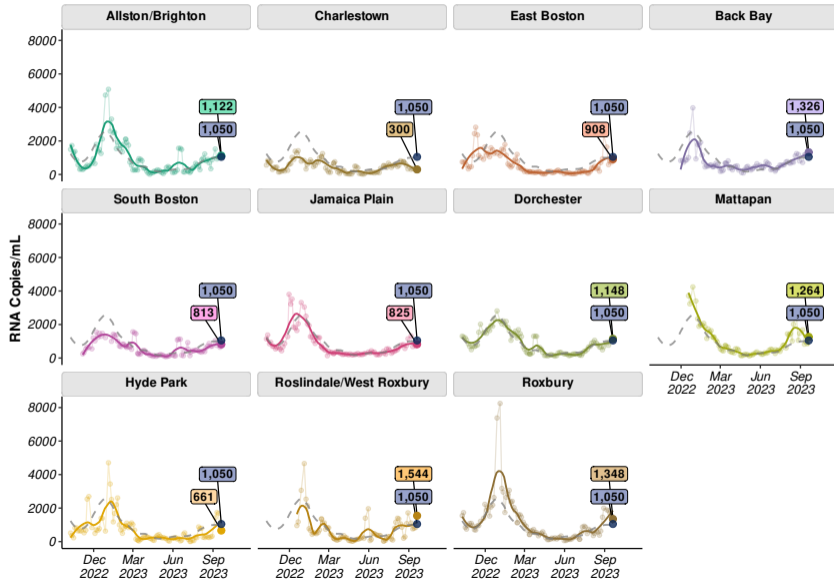
Points shown are 3-sample average values (i.e., 8-day moving average); line shows smoothed trend for 8-day moving average; dotted grey line in each panel represents average across all Boston sites weighted by population.

Percent Variant Lineages (Citywide)

Variant	%
XBB*	9.5%
XBB.1.5	7.2%
XBB.1.9	0.0%
XBB.1.9.1	13.4%
XBB.1.9.2	1.9%
EG.5	45.5%
XBB.1.16	21.0%
Other	1.4%
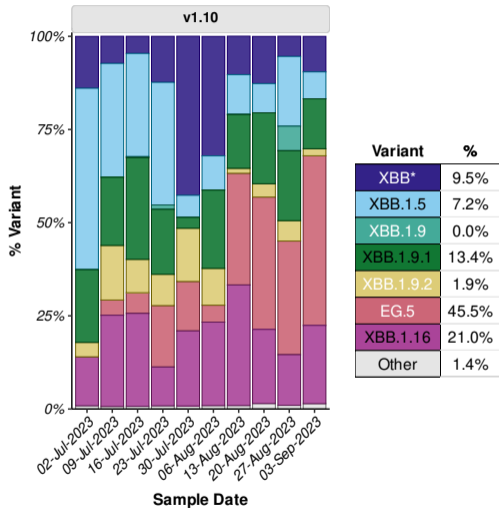
Average variant percentage across all BPHC sites weighted by population size | Table shows variant percentages for samples collected the week of 03-Sep-2023 (most recent available data); Variant results are reported weekly with a 3-week lag due to laboratory processing and analysis.

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;
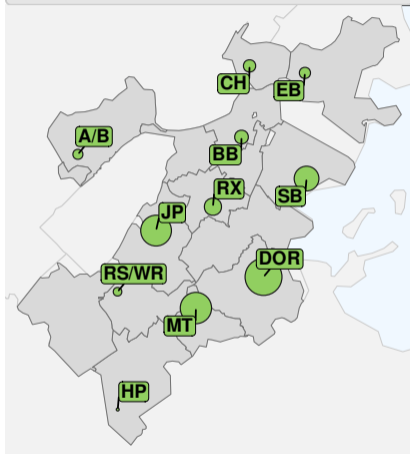● Removed BA.2, *BA.5*, BQ.1*

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

Neighborhood Site Status and Details

Status of Sampling Sites (25-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)