

Wastewater Epidemiology COVID-19 Report

Updated: 31-May-2023 | **Data Complete Through**: 24-May-2023



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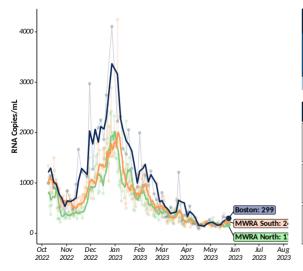
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CITYWIDE AVERAGE

RANGE ACROSS 11
NEIGHBORHOOD SITES

299
RNA copies/mL

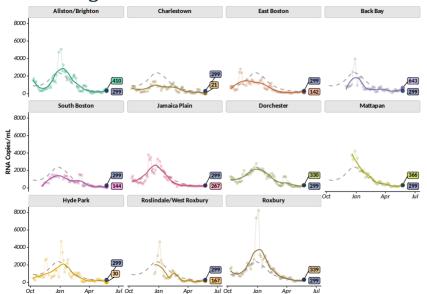
Data through: 24-May-2023

2-WEEK TRENDS			
Boston Increasing	+106% over the past 14 days		
MWRA North Stable	-21% over the past 14 days		
MWRA South Stable	+53% over the past 14 days		

 $\textbf{Updated: } \textbf{31-May-2023} \mid \textbf{Samples through: } \textbf{24-May-2023 (BPHC); } \textbf{23-May-2023 (MWRA)} \mid \textbf{MWRA Data: } \\ \textbf{https://www.mwra.com/biobot/biobotdata.htm} \\ \textbf{11-May-2023} \mid \textbf{12-May-2023} \mid \textbf{12-May-2$

BPHC Neighborhood Trends

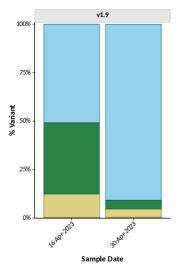




Points shown are 3-sample average values (i.e., 8-day moving average); line shows smoothed trend for 8-day moving average; dotted grey line in each panel represents average across all Boston sites weighted by population,

Percent Variant Lineages (Citywide)





Variant	%	
BA.2*	0.0%	
XBB*	90.7%	
XBB.1.9	4.5%	
XBB.1.16	4.4%	
BA.5*	0.0%	
BQ.1*	0.0%	
Other	0.4%	

Average variant percentage across all BPHC sites weighted by population size | Table shows variant percentages for samples collected the week of 30-Apr-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: v1.9 (28-Apr-2023):

- BA.2* includes BA.2, BA.2.12, BA.2.12.1, and other BA.2 sub-lineages.
- BA.5* includes the sublineages of BA.5, except BQ.1*.
 BQ.1* includes BQ.1 and its sublineages, including BQ.1.1.
- BQ.1 includes BQ.1 and its sublineages, including BQ.1.1.

 XBB* includes all XBB sublineages except XBB.1.16 and XBB.1.9, including
- *ABB .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.

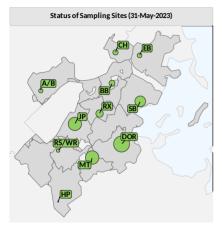
Version Changes: Split XBB* into XBB, XBB.1.16 and XBB.1.9. XBB includes all XBB lineages aside from 1.9 and 1.16

Removed: E7 and BA.4*

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

Neighborhood Site Status and Details





#	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%
80	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) Active (n=11)