

Nebraska Wastewater Surveillance for SARS-CoV-2 Facility Report for Hastings WWTP

Report for Week Ending: 10/21/23 (Week 42)

SARS-CoV-2 virus concentration in wastewater

Sample collection date: 10/17/23
Result: **Detected**
Raw Concentration: **115,045** copies/L
Normalized concentration: **53.1M** copies/person

Normalized concentration is the raw concentration adjusted for sewage flow rate and population, in million copies per person.

Current virus levels in wastewater

High (60-<80%)
as of 10/17/23

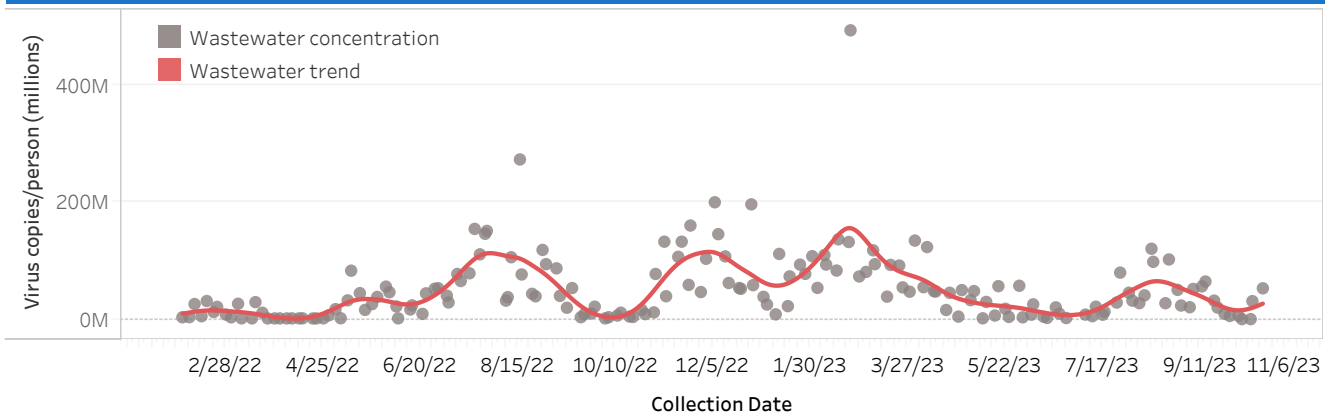
15 day percent change

Increasing
from 10/2/23 to 10/17/23

Current virus levels is based on a percentile that shows whether virus levels at a site are currently higher or lower than past historical levels at the same site. Very High: 80-100%, High: 60-<80%, Moderate: 40-<60%, Low: 20-<40%, Very Low: <20%.

Percent change is the modeled rate of change over last 15 days. Categories include: Increasing (10% or higher); Stable (10% to -10%); Decreasing (-10% or lower)

SARS-CoV-2 normalized wastewater concentration trends by sample collection date

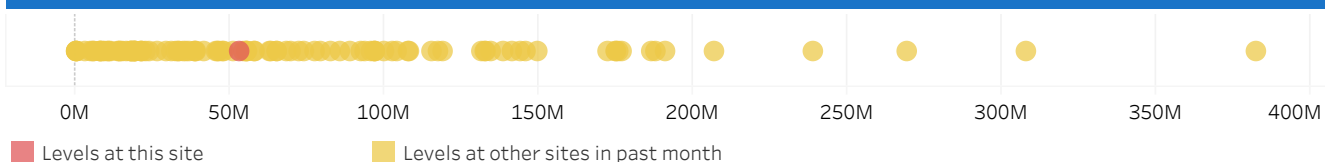


The grey dots represent SARS-CoV-2 normalized wastewater concentration for each sample collection date. Wastewater levels shown in red line are simple smoothing splines to help interpret trends over time. They do not indicate a specific or actionable values. **Note:** As of 05/25/2023, the lab methodology to quantify SARS-COV-2 has been changed from qPCR to dPCR.

SARS-CoV-2 wastewater concentrations by collection date: Last 8 samples

	9/21/23	9/25/23	9/28/23	10/3/23	10/5/23	10/10/23	10/11/23	10/17/23
Raw Concentration (copies/L)	37,375	18,515	10,800	10,900	0	0	57,475	115,045
Normalized Concentration (copies/person)	20.0M	9.4M	5.7M	5.9M	0.3M	0.3M	31.1M	53.1M

Comparison of normalized virus concentrations to all other Nebraska sites in last 1 month



Data Source: Nebraska Wastewater Surveillance System (NeWSS). Project in collaboration between Nebraska DHHS, UNL, Nebraska Public Health Lab (NPHL), and local public health departments.

For more information: <https://www.cdc.gov/nwss/wastewater-surveillance.html>