

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

Report for Week Ending: 9/30/23 (Week 39)

SARS-CoV-2 virus concentration in wastewater

Sample collection date: 9/25/23
Result: **Detected**
Raw Concentration: **18,515** copies/L
Normalized concentration: **9.4M** 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

Low (20-<40%)
as of 9/25/23

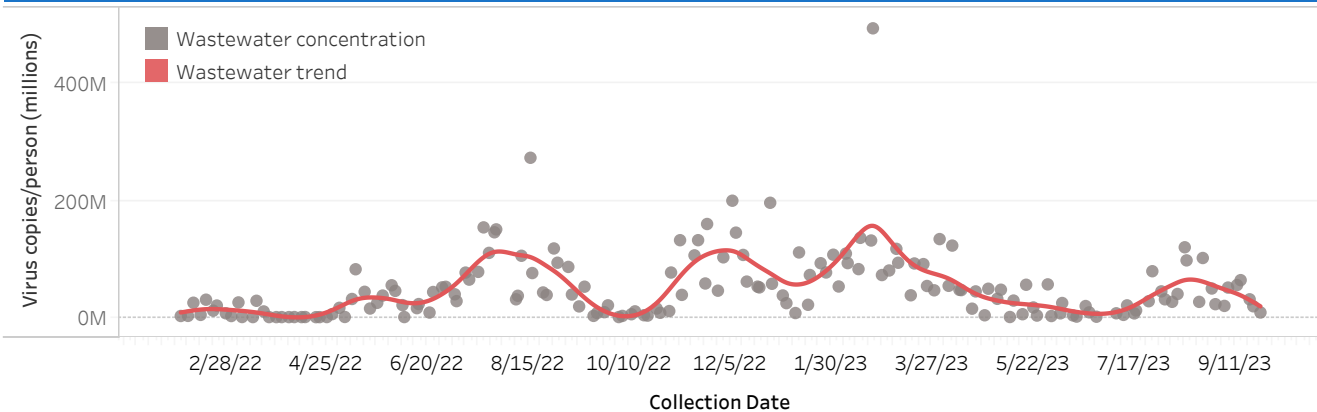
15 day percent change

Decreasing
from 9/10/23 to 9/25/23

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

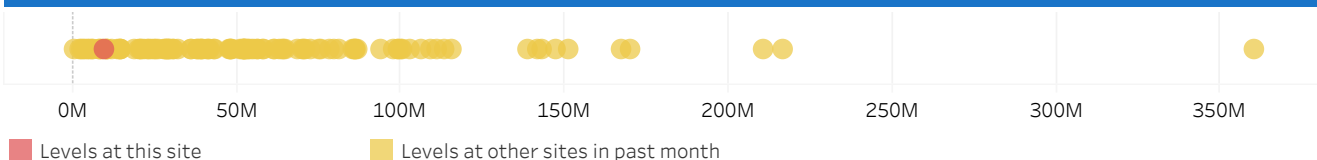


The grey dots represent SARS-CoV-2 normalized wastewater concentration for each sample collection date. Wastewater levels shown in red line are simple smoothing splines to help interpret trends over time. They do not indicate a specific or actionable values. **Note:** As of 05/25/2023, the lab methodology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

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

	8/31/23	9/5/23	9/7/23	9/12/23	9/14/23	9/19/23	9/21/23	9/25/23
Raw Concentration (copies/L)	43,300	38,300	97,600	105,700	121,040	59,670	37,375	18,515
Normalized Concentration (copies/person)	23.6M	20.7M	52.0M	56.3M	64.6M	31.9M	20.0M	9.4M

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>