

Nebraska Wastewater Surveillance for SARS-CoV-2

Facility Report for Hastings WWTP

Report for Week Ending: 8/26/23 (Week 34)

SARS-CoV-2 virus concentration in wastewater

Sample collection date: 8/22/23
 Result: **Detected**
 Raw Concentration: **48,450** copies/L
 Normalized concentration: **27.5M** 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

Moderate (40-<60%)
as of 8/22/23

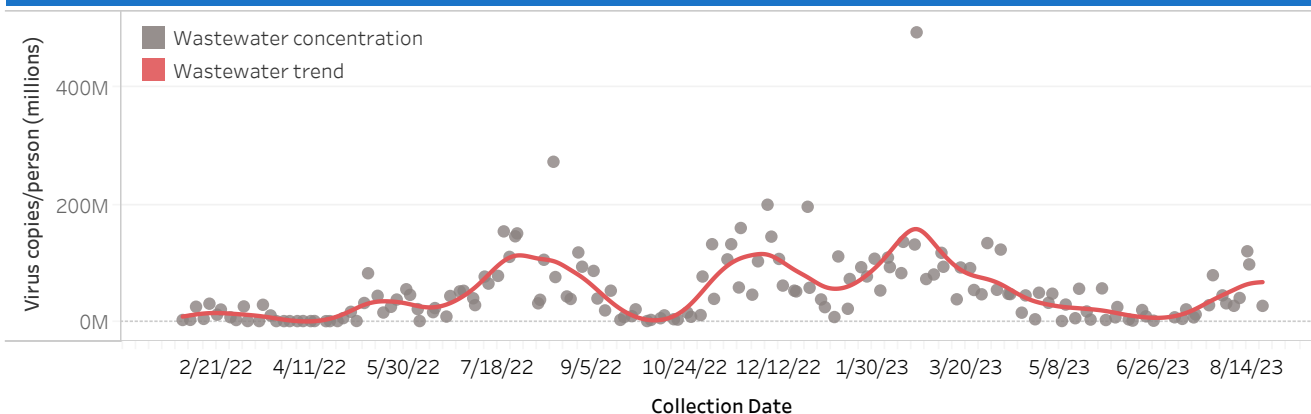
15 day percent change

Decreasing
from 8/7/23 to 8/22/23

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

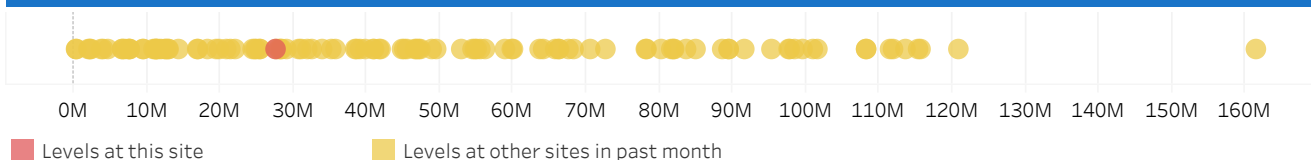


The grey dots represent SARS-CoV-2 normalized wastewater concentration for each sample collection date. Wastewater levels shown in red line are simple smoothing splines to help interpret trends over time. They do not indicate a specific or actionable values. **Note:** As of 05/25/2023, the lab methodology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

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

	7/27/23	8/1/23	8/3/23	8/7/23	8/10/23	8/14/23	8/15/23	8/22/23
Raw Concentration (copies/L)	152,390	79,520	53,875	54,750	74,987	235,627	194,550	48,450
Normalized Concentration (copies/person)	79.9M	45.5M	31.9M	27.6M	41.0M	120.8M	98.4M	27.5M

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>