

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

Report for Week Ending: 9/9/23 (Week 36)

SARS-CoV-2 virus concentration in wastewater

Sample collection date: 9/5/23
Result: **Detected**
Raw Concentration: **38,300** copies/L
Normalized concentration: **20.7M** 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 9/5/23

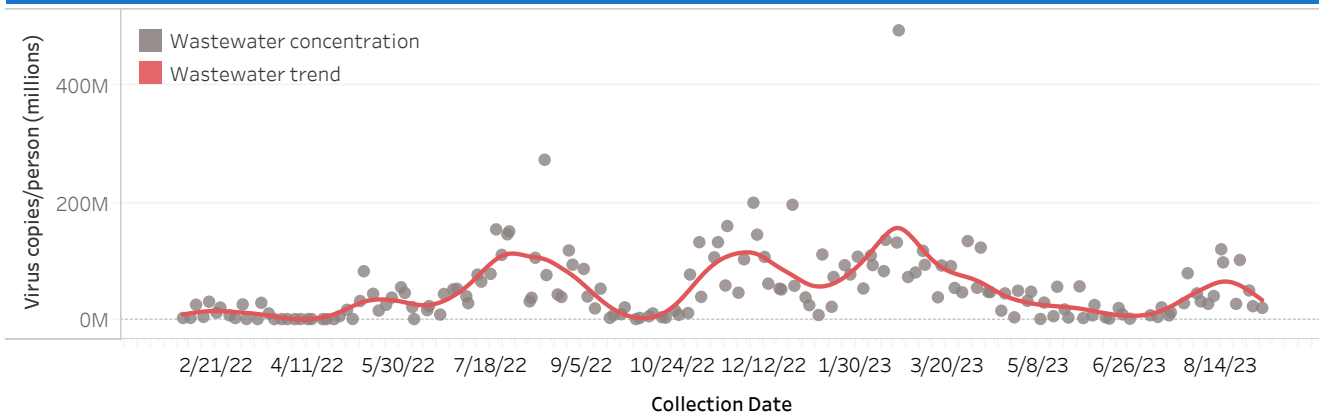
15 day percent change

Decreasing
from 8/21/23 to 9/5/23

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

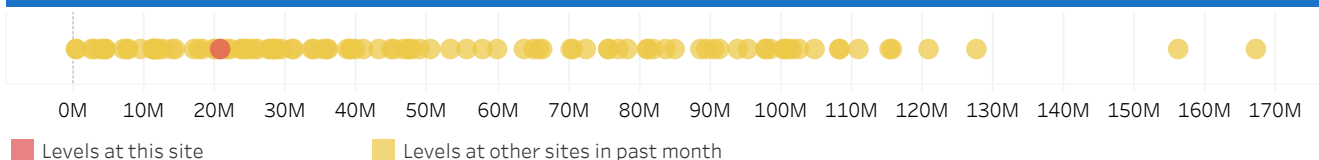


The grey dots represent SARS-CoV-2 normalized wastewater concentration for each sample collection date. Wastewater levels shown in red line are simple smoothing splines to help interpret trends over time. They do not indicate a specific or actionable values. **Note:** As of 05/25/2023, the lab methodology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

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

| | 8/10/23 | 8/14/23 | 8/15/23 | 8/22/23 | 8/24/23 | 8/29/23 | 8/31/23 | 9/5/23 |
|--|---------|---------|---------|---------|---------|---------|---------|--------|
| Raw Concentration (copies/L) | 74,987 | 235,627 | 194,550 | 48,450 | 180,015 | 89,651 | 43,300 | 38,300 |
| Normalized Concentration (copies/person) | 41.0M | 120.8M | 98.4M | 27.5M | 102.5M | 50.4M | 23.6M | 20.7M |

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>