

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

Report for Week Ending: 8/19/23 (Week 33)

### SARS-CoV-2 virus concentration in wastewater

Sample collection date: 8/14/23  
Result: **Detected**  
Raw Concentration: **235,627** copies/L  
Normalized concentration: **120.8M** 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

**Very High (80-100%)**  
as of 8/14/23

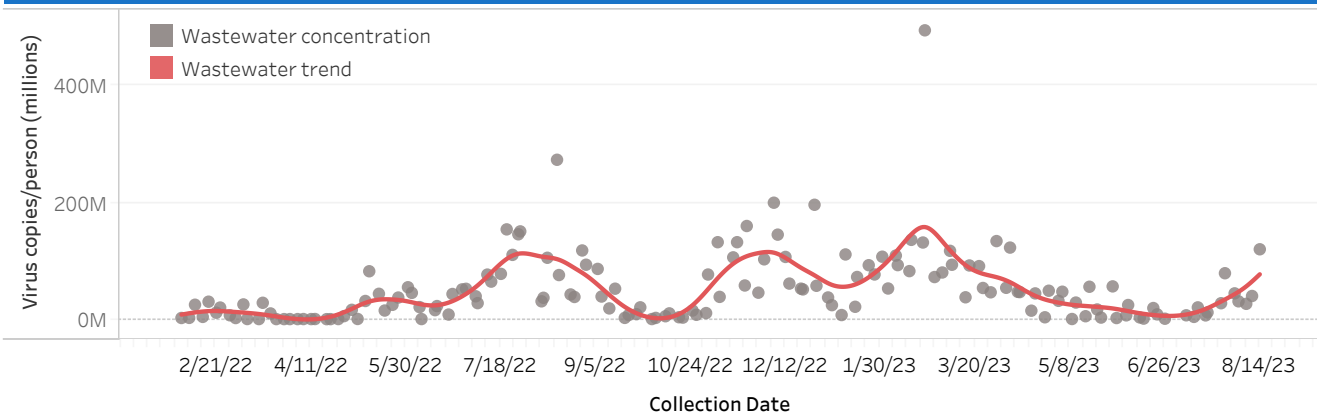
#### 15 day percent change

**Increasing**  
from 7/30/23 to 8/14/23

**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

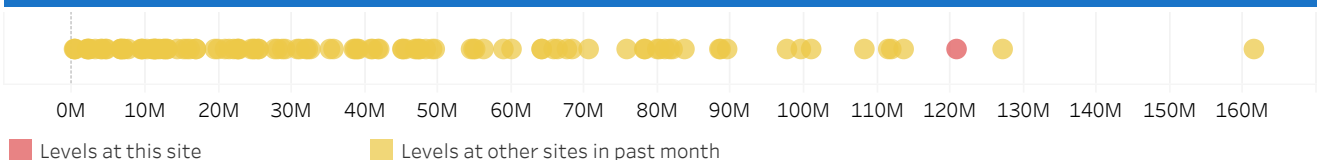


The grey dots represent SARS-CoV-2 normalized wastewater concentration for each sample collection date. Wastewater levels shown in red line are simple smoothing splines to help interpret trends over time. They do not indicate a specific or actionable values. **Note:** As of 05/25/2023, the lab methodology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

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

	7/18/23	7/25/23	7/27/23	8/1/23	8/3/23	8/7/23	8/10/23	8/14/23
Raw Concentration (copies/L)	21,900	48,100	152,390	79,520	53,875	54,750	74,987	235,627
Normalized Concentration (copies/person)	12.9M	28.6M	79.9M	45.5M	31.9M	27.6M	41.0M	120.8M

### 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>