

Nebraska Wastewater Surveillance for SARS-CoV-2

Facility Report for Hastings WWTP

Report for Week Ending: 9/16/23 (Week 37)

SARS-CoV-2 virus concentration in wastewater

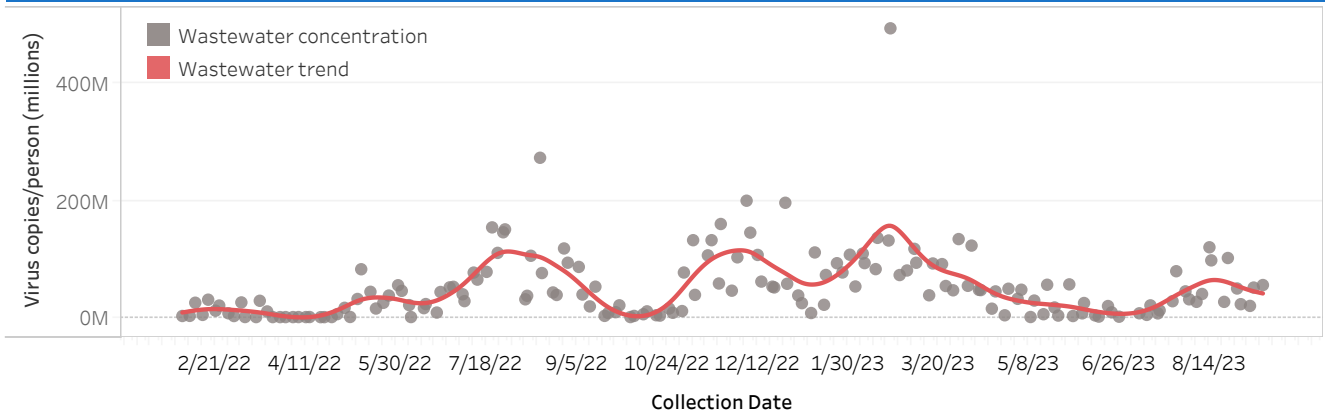
Sample collection date: 9/12/23
 Result: **Detected**
 Raw Concentration: **105,700** copies/L
 Normalized concentration: **56.3M** copies/person

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

Current virus levels in wastewater	15 day percent change
High (60-<80%) as of 9/12/23	Increasing from 8/28/23 to 9/12/23

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

	8/15/23	8/22/23	8/24/23	8/29/23	8/31/23	9/5/23	9/7/23	9/12/23
Raw Concentration (copies/L)	194,550	48,450	180,015	89,651	43,300	38,300	97,600	105,700
Normalized Concentration (copies/person)	98.4M	27.5M	102.5M	50.4M	23.6M	20.7M	52.0M	56.3M

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

