

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

Report for Week Ending: 10/8/22 (Week 41)

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

Sample collection date: 10/2/22  
Result: **Detected**  
Raw Concentration: **42,099** copies/L  
Normalized concentration: **33.7M** 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

**Moderate (40-<60%)**  
as of 10/2/22

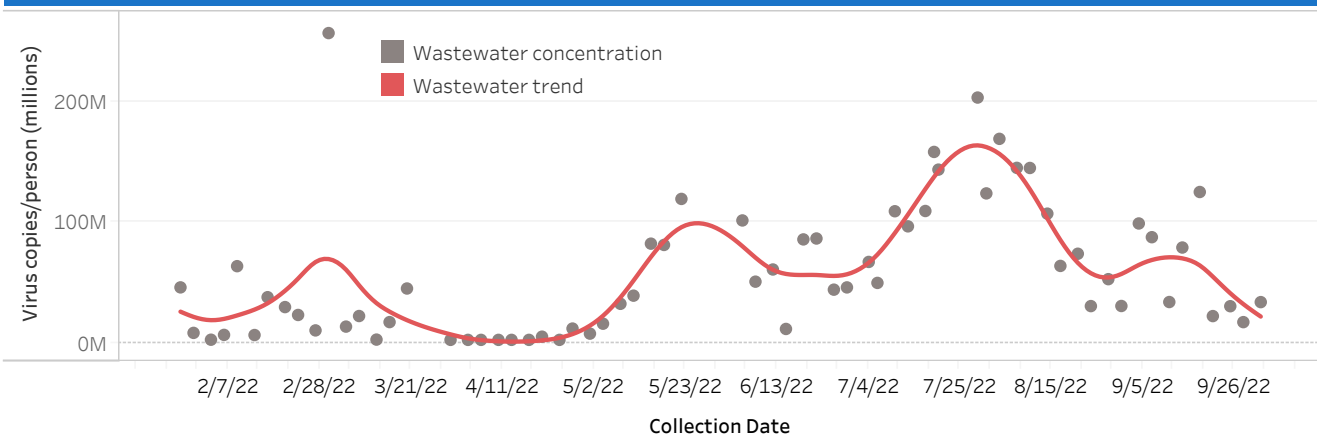
#### 15 day percent change

**Decreasing**  
from 9/17/22 to 10/2/22

**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

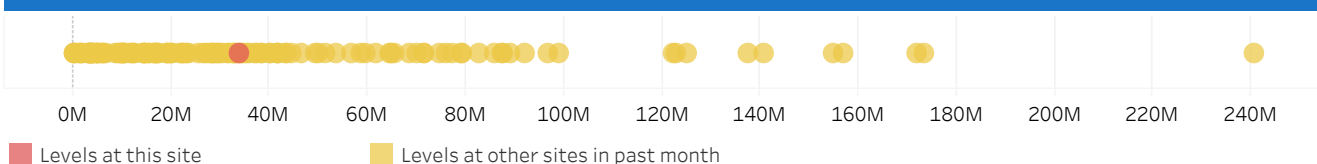


The grey dots represent SARS-CoV-2 normalized wastewater concentration for each sample collection date. Wastewater levels shown in red line are simple smoothing splines to help interpret trends over time. They do not indicate a specific or actionable values.

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

|  | 9/7/22  | 9/11/22 | 9/14/22 | 9/18/22 | 9/21/22 | 9/25/22 | 9/28/22 | 10/2/22 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
| Raw Concentration (copies/L)             | 115,578 | 42,574  | 98,585  | 143,035 | 27,640  | 37,860  | 21,388  | 42,099  |
| Normalized Concentration (copies/person) | 87.5M   | 33.8M   | 78.9M   | 124.9M  | 22.1M   | 30.3M   | 17.1M   | 33.7M   |

### 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, UNMC College of Public Health, and local public health departments.

For more information: <https://dhhs.ne.gov/Pages/COVID-19-Genomics-and-Wastewater-Surveillance.aspx>