

# Grand Island Wastewater Treatment Plant Wastewater Surveillance \*Preliminary Report\*

Report for Week Ending: 7/2/2022

Week Number

2022-27

Wastewater surveillance involves testing and monitoring wastewater for SARS-CoV-2, the virus that causes COVID-19. Wastewater surveillance for SARS-CoV-2 can serve as an early warning signal, track variants, and help direct resources for health departments. The Nebraska Wastewater Surveillance System (NeWSS) is a collaboration between wastewater treatment facilities, the University of Nebraska-Lincoln, University of Nebraska Medical Center College of Public Health, and Nebraska DHHS.

**Note:** NeWSS has switched to a new and more sensitive test for quantifying virus concentrations. Starting the week of 5/9, historic data have been updated to reflect the new testing method. Therefore, concentrations will differ slightly from previously reported data, but overall trends remained the same.

## SARS-CoV-2 Virus Concentration in Wastewater

Collection Date 6/26/2022

54,983 copies/L

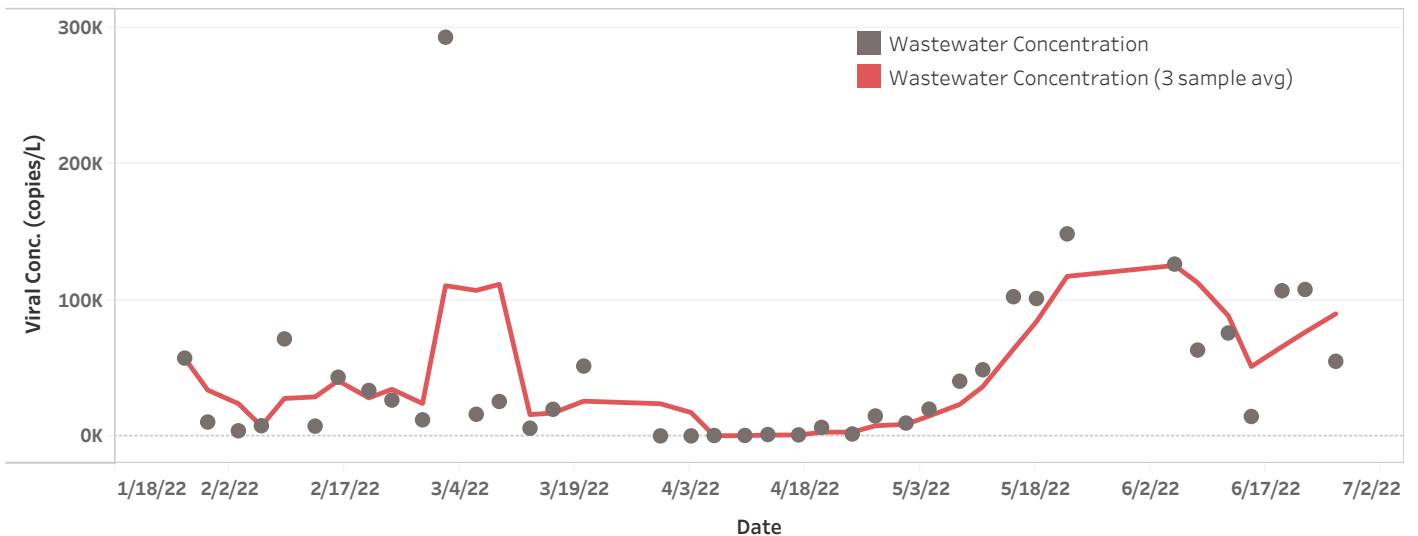
Detected\*

\*Virus concentrations are reported as raw values in copies per liter of wastewater. Results are not adjusted or normalized. SARS-CoV-2 is considered below the limit of detection when sample results are less than 6060 copies/L.

## SARS-CoV-2 Concentrations (copies/L) by Sample Collection Date

May 2022		Month of Date / Week of Date / Day of Date						Jun 2022		
Wk 21		Wk 22		Wk 24		Wk 25		Wk 26		Wk 27
5/15/22	5/18/22	5/22/22		6/5/22	6/8/22	6/12/22	6/15/22	6/19/22	6/22/22	6/26/22
102,583	101,256	148,882		126,611	63,264	75,858	14,330	106,983	107,924	54,983

## SARS-CoV-2 Concentration Trends by Sample Collection Date



Source: Nebraska DHHS Wastewater Surveillance System, in collaboration with UNMC and UNL

Note: Wastewater surveillance data presented are best available data and are subject to change. These data may be incomplete for the most recent 2-week period due to processing and reporting delays. All data are provisional. The raw, non-normalized concentration of SARS-CoV-2 in copies per liter is presented. The concentrations may not be comparable across different sampling sites. SARS-CoV-2 RNA concentrations in wastewater are quantified using RT-qPCR. Laboratory processing and quantification methods may vary between sampling sites or sample dates.