

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

Report for Week Ending: 5/21/2022

Week Number

2022-21

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 5/15/2022

102,583 copies/L

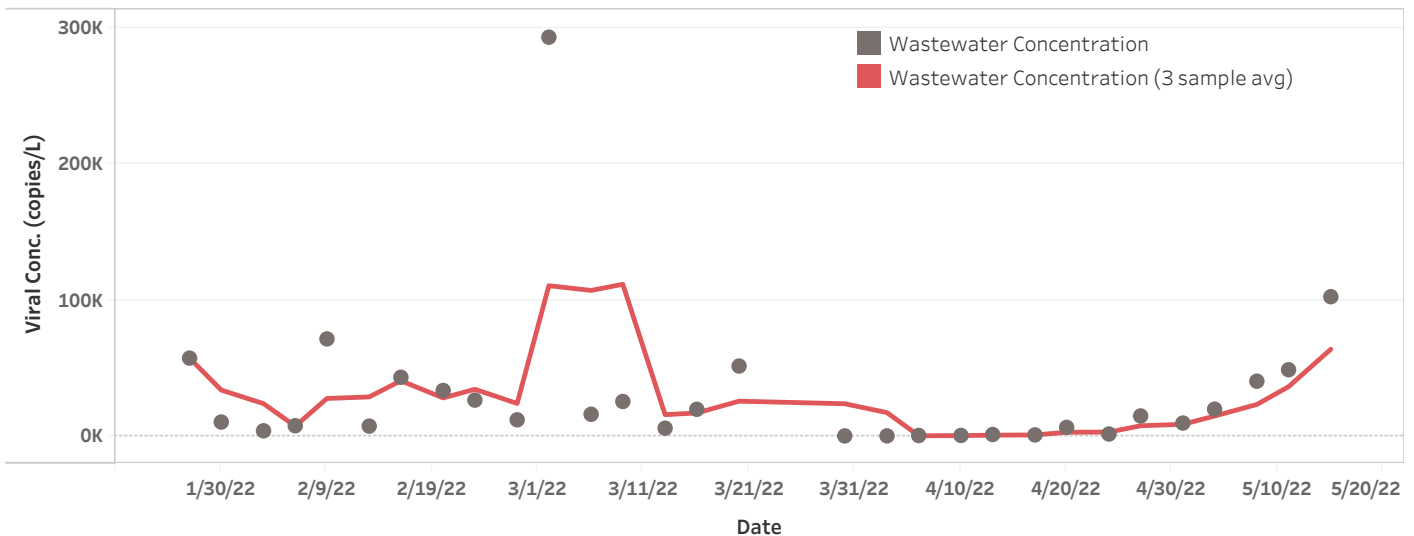
Detected\*

\*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

Month of Date / Week of Date / Day of Date												
Apr 2022						May 2022						
Wk 15		Wk 16		Wk 17		Wk 18		Wk 19		Wk 20		Wk 21
4/3/22	4/6/22	4/10/22	4/13/22	4/17/22	4/20/22	4/24/22	4/27/22	5/1/22	5/4/22	5/8/22	5/11/22	5/15/22
60	336	369	1,049	787	6,338	1,438	14,728	9,501	19,760	40,340	48,773	102,583

## 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.