

Grand Island Wastewater Treatment Plant

Wastewater Surveillance *Preliminary Report*

Report for Week Ending: 7/23/2022

Week Number

2022-30

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 7/19/2022

197,504 copies/L

Detected*

Collection Date 7/20/2022

179,190 copies/L

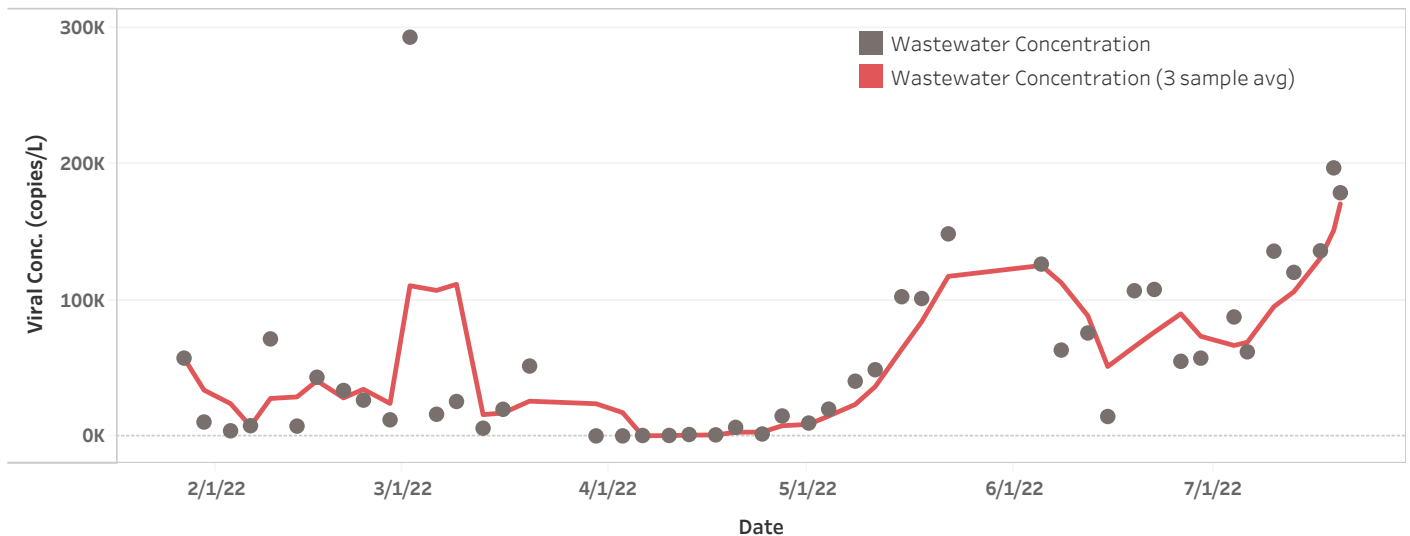
Detected*

*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											
Jun 2022						Jul 2022					
Wk 25		Wk 26		Wk 27		Wk 28		Wk 29		Wk 30	
6/12/22	6/15/22	6/19/22	6/22/22	6/26/22	6/29/22	7/4/22	7/6/22	7/10/22	7/13/22	7/17/22	7/19/22
75,858	14,330	106,983	107,924	54,983	57,321	87,664	61,974	136,133	120,504	136,381	197,504
											179,190

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.