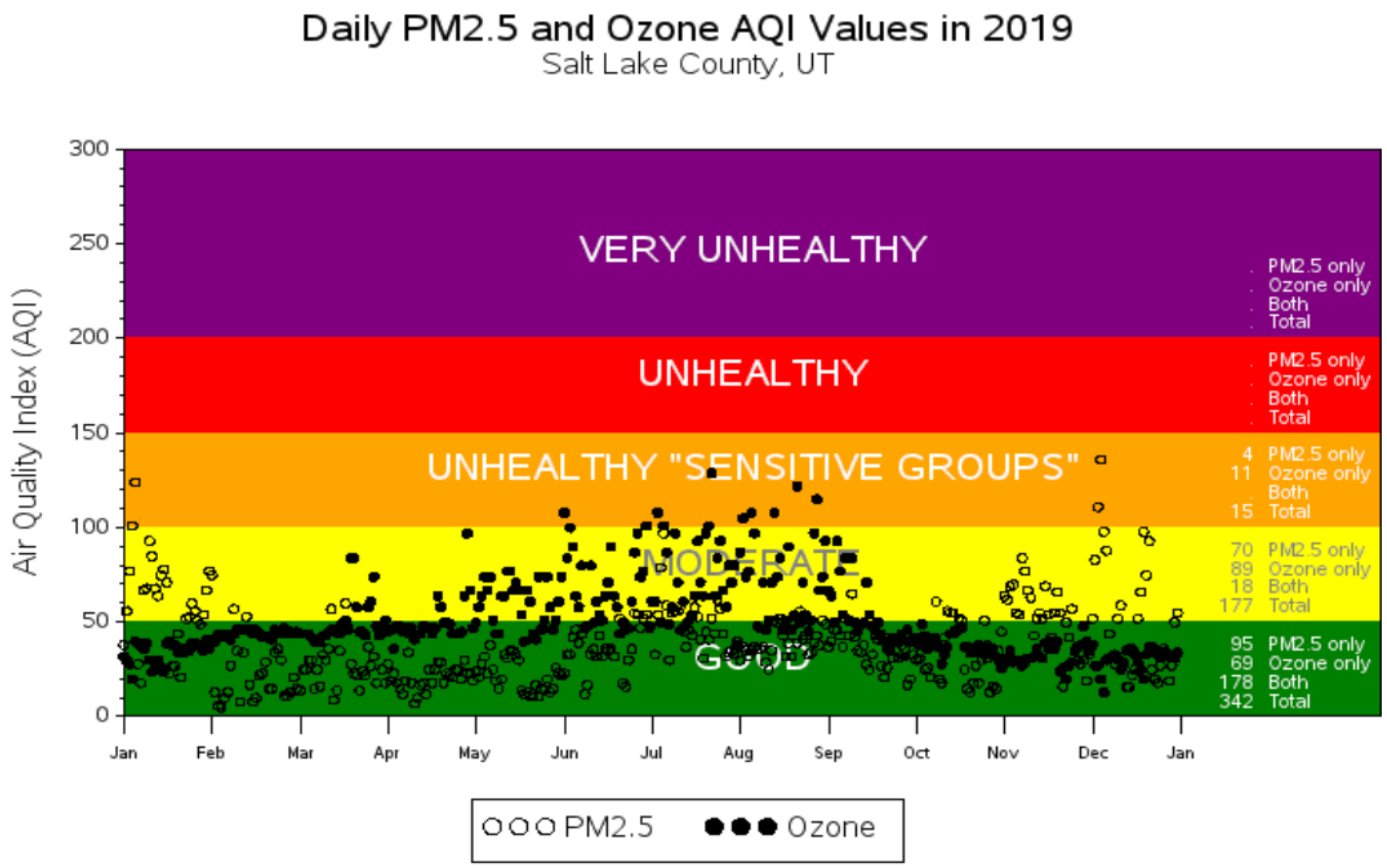
UTAH DEPARTMENT of
ENVIRONMENTAL
QUALITY

Department of Environmental Quality

Utah's Air Quality

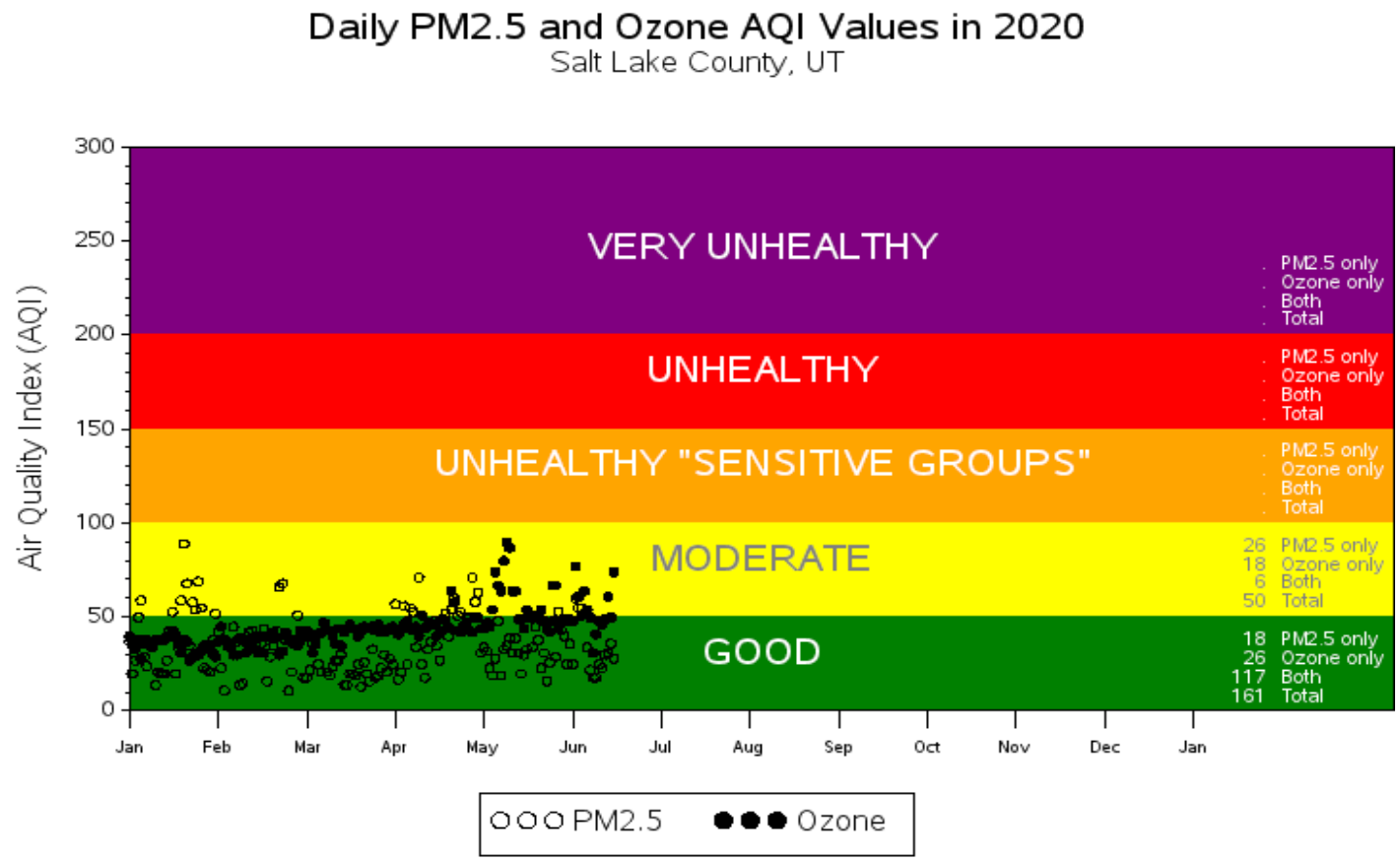
- March, April, May typically our best months



Source: U.S. EPA AirData <https://www.epa.gov/air-data>
Generated: March 23, 2020

Utah's Air Quality

- March, April, May typically our best months



Source: U.S. EPA AirData <https://www.epa.gov/air-data>
Generated: June 16, 2020

Utah's Air Quality

- March, April, May typically our best months

- Teleworking
  - Many state agencies and businesses we've moved our operations to teleworking
  - 90% of our team is teleworking

- Working w/ UCAIR
  - Gathering lessons learned
  - Creating resources to help business and community partners in the future
  - Red air days: Can we telework for the next few days

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

UTAH DEPARTMENT OF HEALTH

THE UNIVERSITY OF UTAH®

UtahStateUniversity

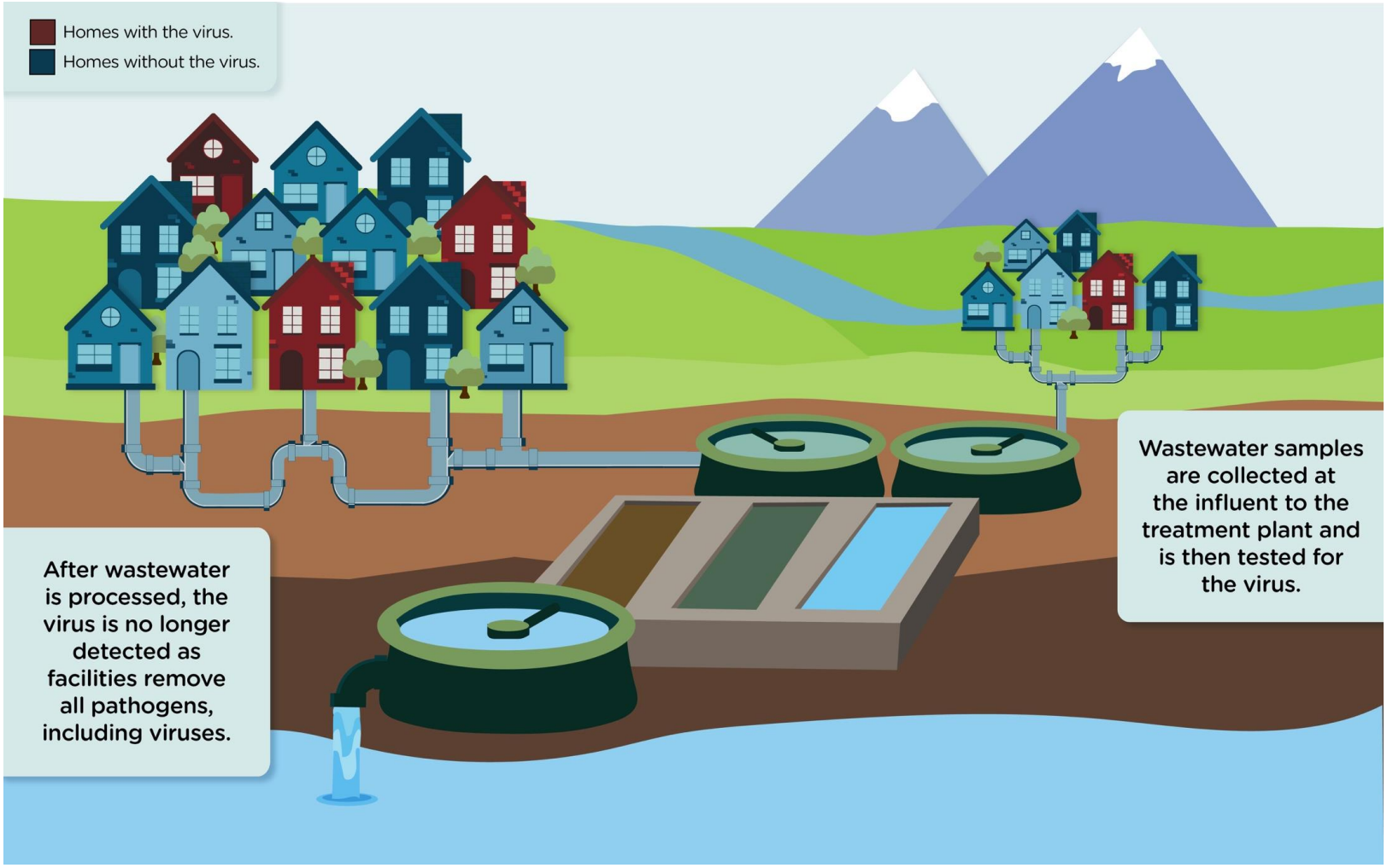
BYU

Monitoring Wastewater for SARS-CoV-2: Utah's Pilot Study

June 2020

CVWRF · SNYDERVILLE BASIN · LOGAN CITY · OREM · PRWID · TREMONTON · CITY OF MOAB · CLEARFIELD CITY

Wastewater Monitoring of Virus

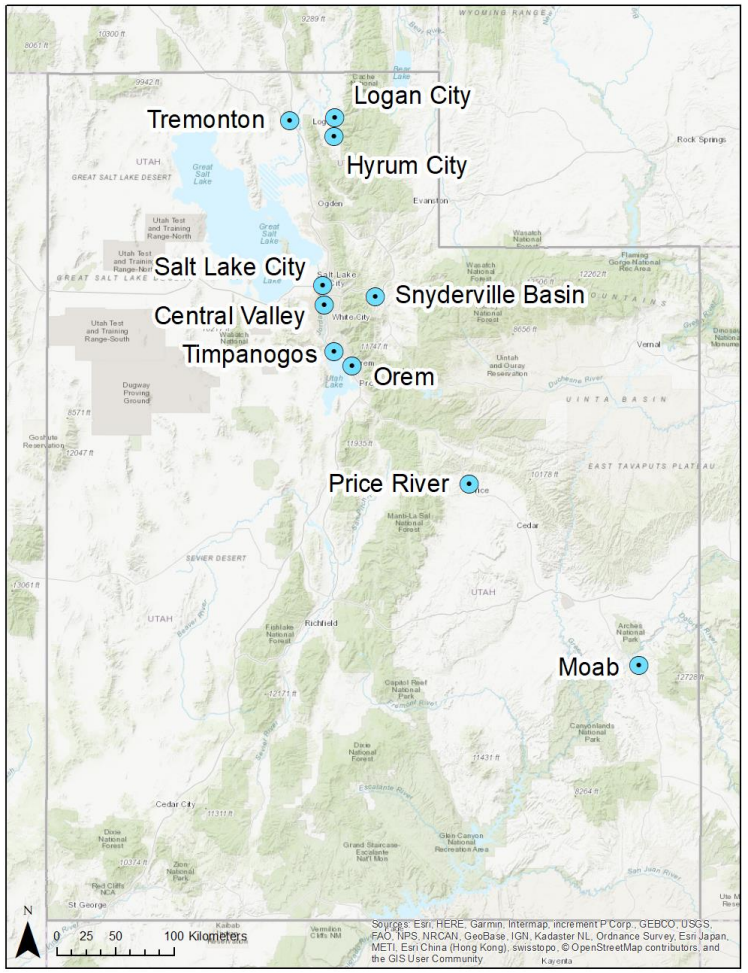


Utah's Pilot Study

- 10 wastewater treatment plants
- ~40% of Utah population

- Mid-April through May

- Uniform laboratory methods at 3 universities



Key Findings

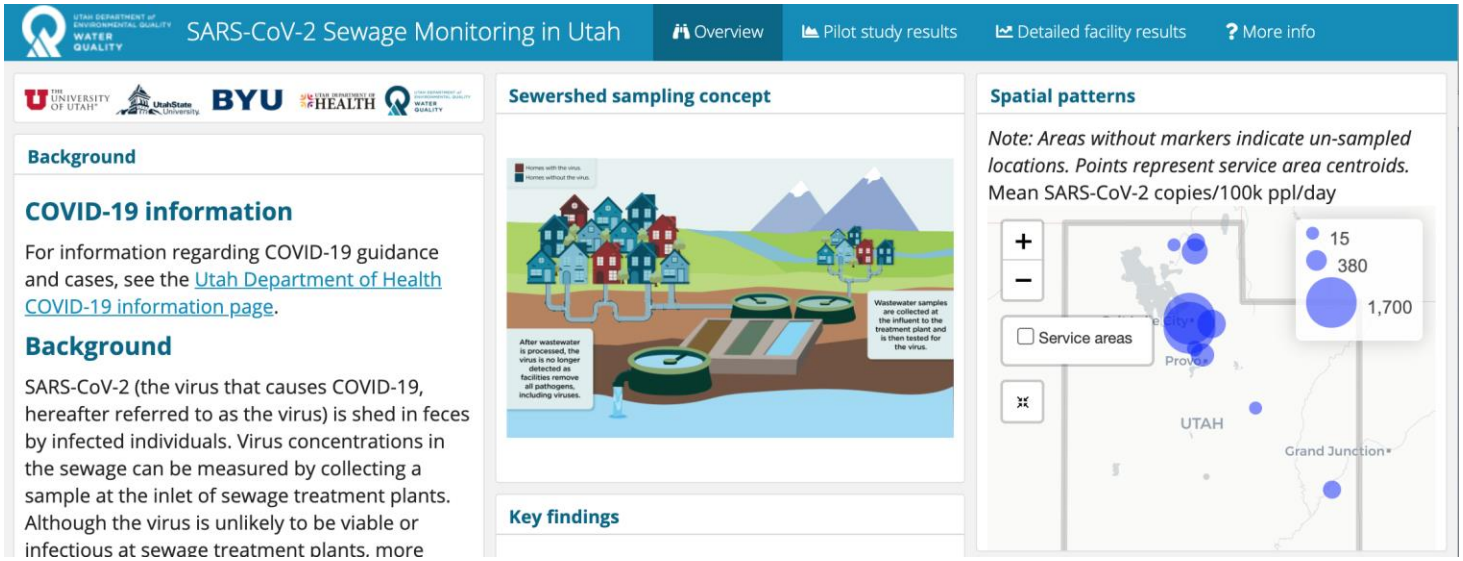
Virus was found in the influent of all ten facilities (64% of all samples).

- Virus was not detected in the effluent leaving the sewage treatment plants.

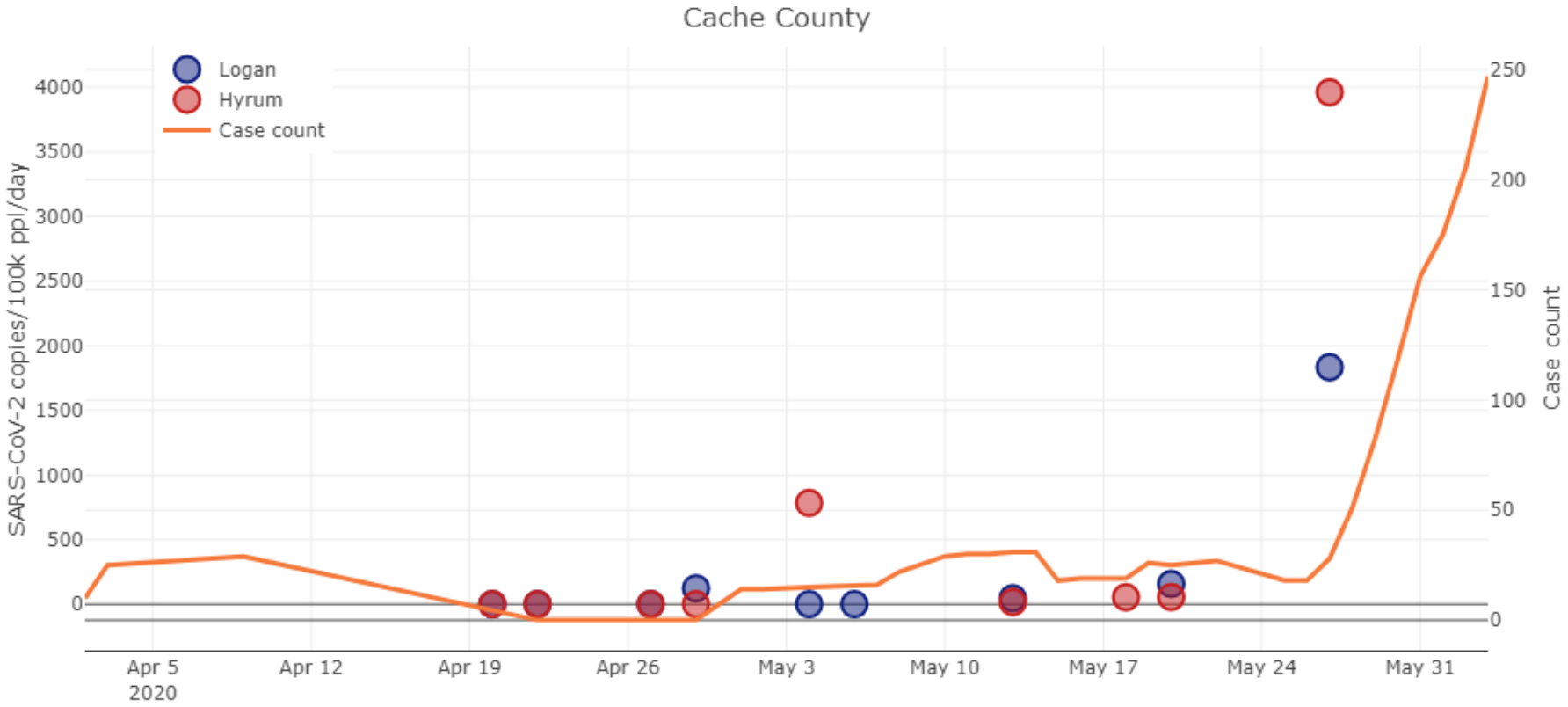
Large increases of virus were measured to the Logan and Hyrum facilities in late May.

Highest concentrations of virus were found in urban areas.

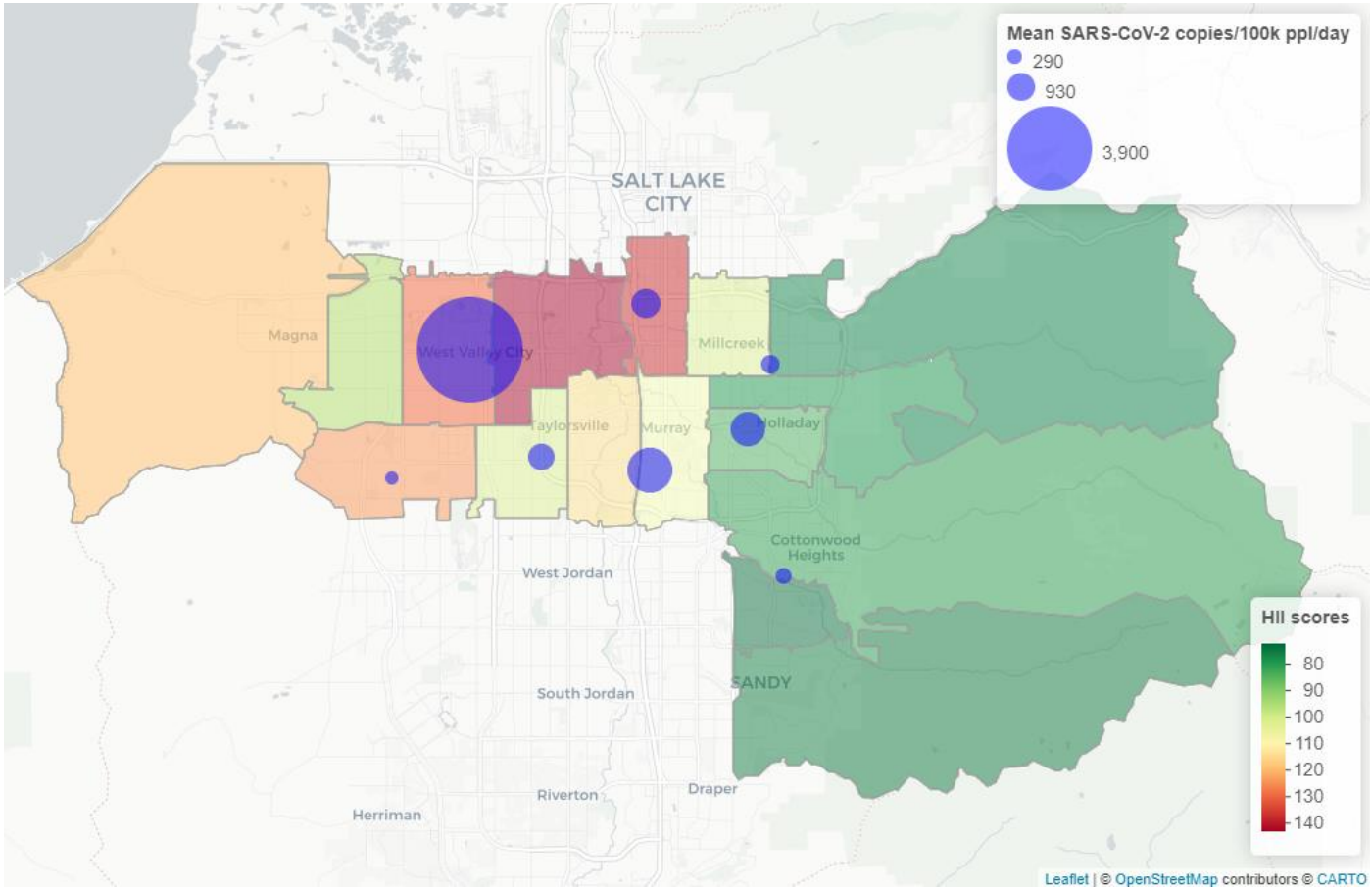
Tourist communities showed higher concentrations than others of similar size.



Potential Use: Early detection of rising infections



Potential use: Targeting community level monitoring

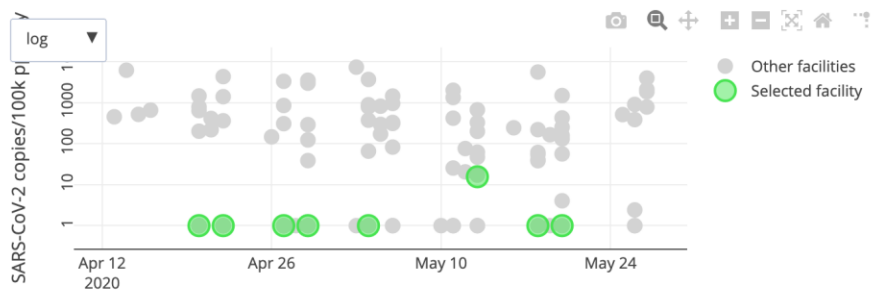


Potential use: Confirmation of low infection rates

Tremonton WWTP

Estimated population served: 12,451

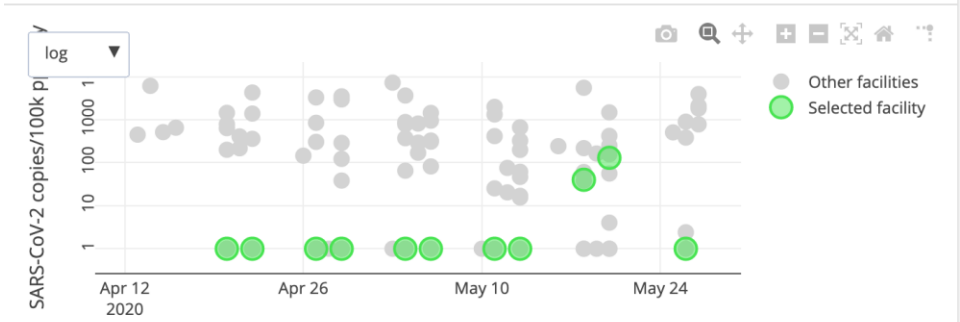
Time series



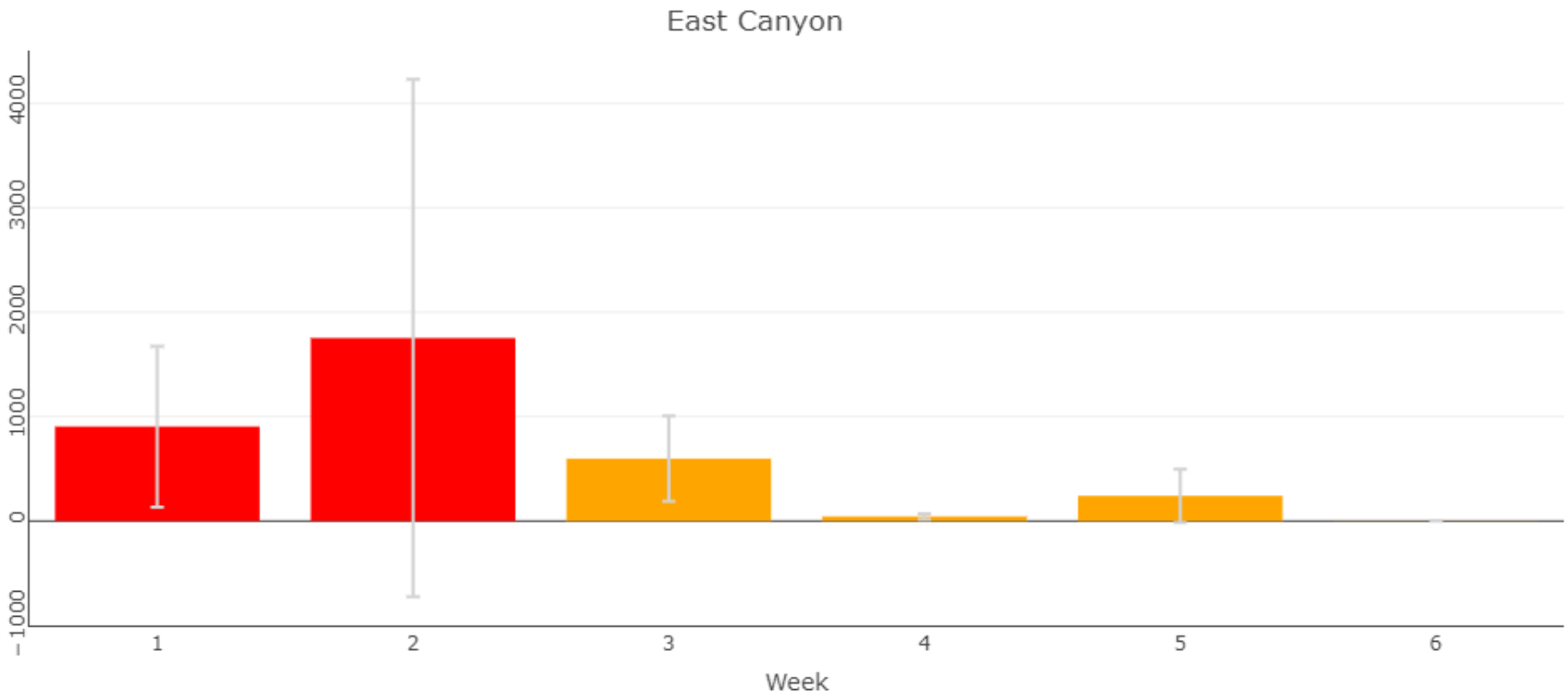
Price River WID

Estimated population served: 17,312

Time series



Potential use: Monitoring overall infection trends



Next Steps

Goal: Assist in Utah's response to COVID-19

Sample locations

- 30 treatment plants > 1 MGD (~10,000 people)
- 10 rural treatment plants
- ~75% of Utah's population

Frequency

- Weekly samples July – September at 40 sites
- Capacity for 20 additional samples as needed
- Surge sampling available if needed