

Monthly Quality Update August 2021



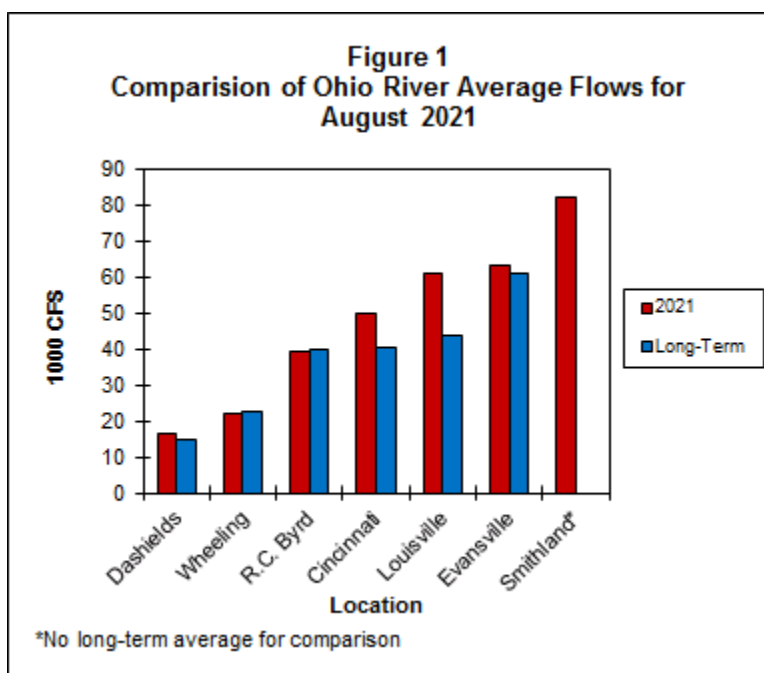
**OHIO RIVER VALLEY
WATER SANITATION COMMISSION**

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Flows

Average flows at seven Ohio River locations are displayed below. At each location the August 2021 average flow (red bar) is contrasted with the long-term average monthly flow (blue bar). Flows were significantly higher at all locations during the month of August.



Bacteria

The bacteria monitoring results from five of the six Ohio River locations in August are in the attached graphs. ORSANCO's water quality criteria for the protection of human health during the contact recreation season are:

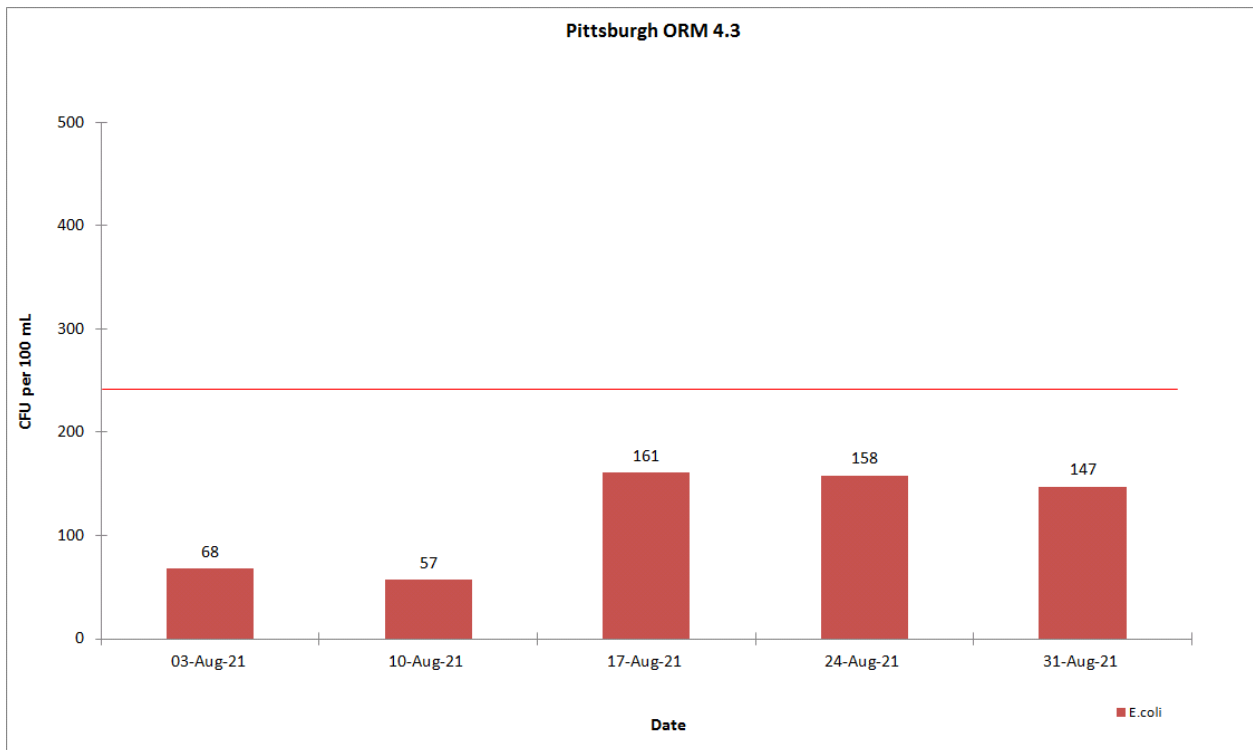
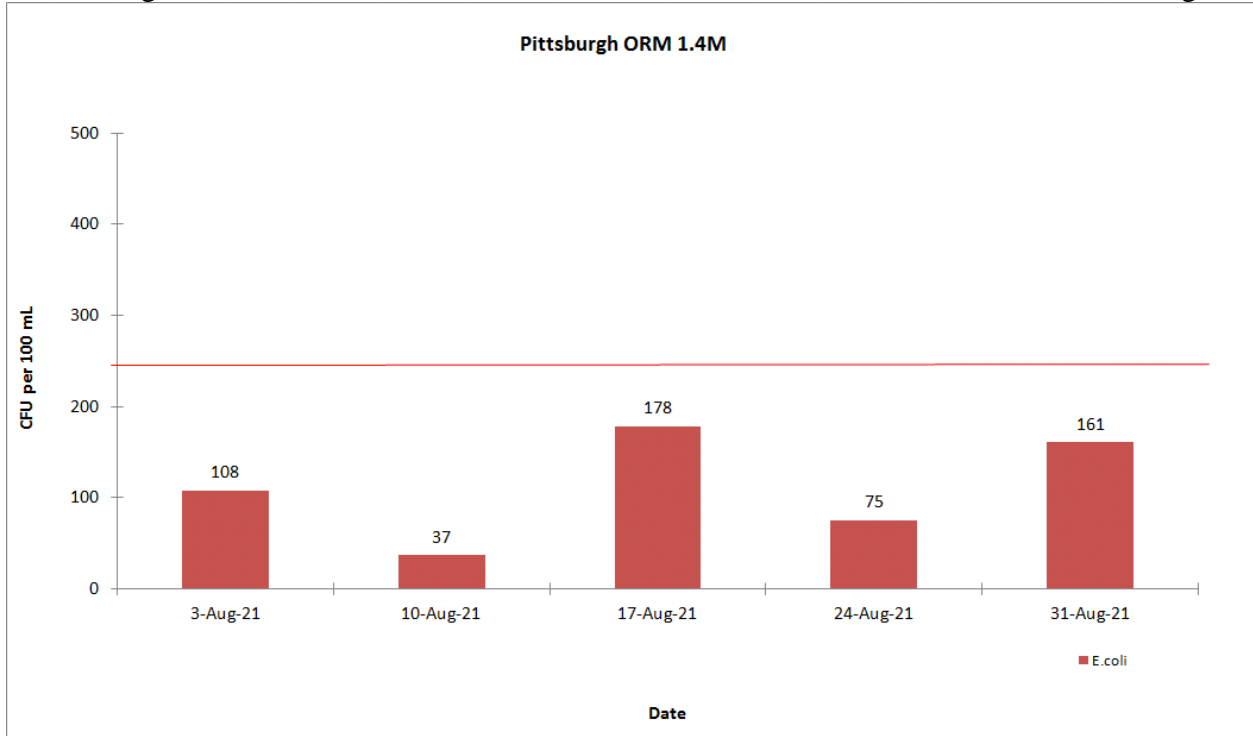
- *E. coli* count is not to exceed 240 CFU/100mL in more than 25 percent of samples. (*E.coli* is shown with a red line on the graph.)
- *E. coli* shall not exceed 130 CFU/100mL as a 90-day geometric mean, based on not less than five samples per month.

ORSANCO's water quality criteria for the protection of public water supply year round are:

- Fecal Coliform shall not exceed 2,000/100mL as a monthly geometric mean based on not less than five samples per month.

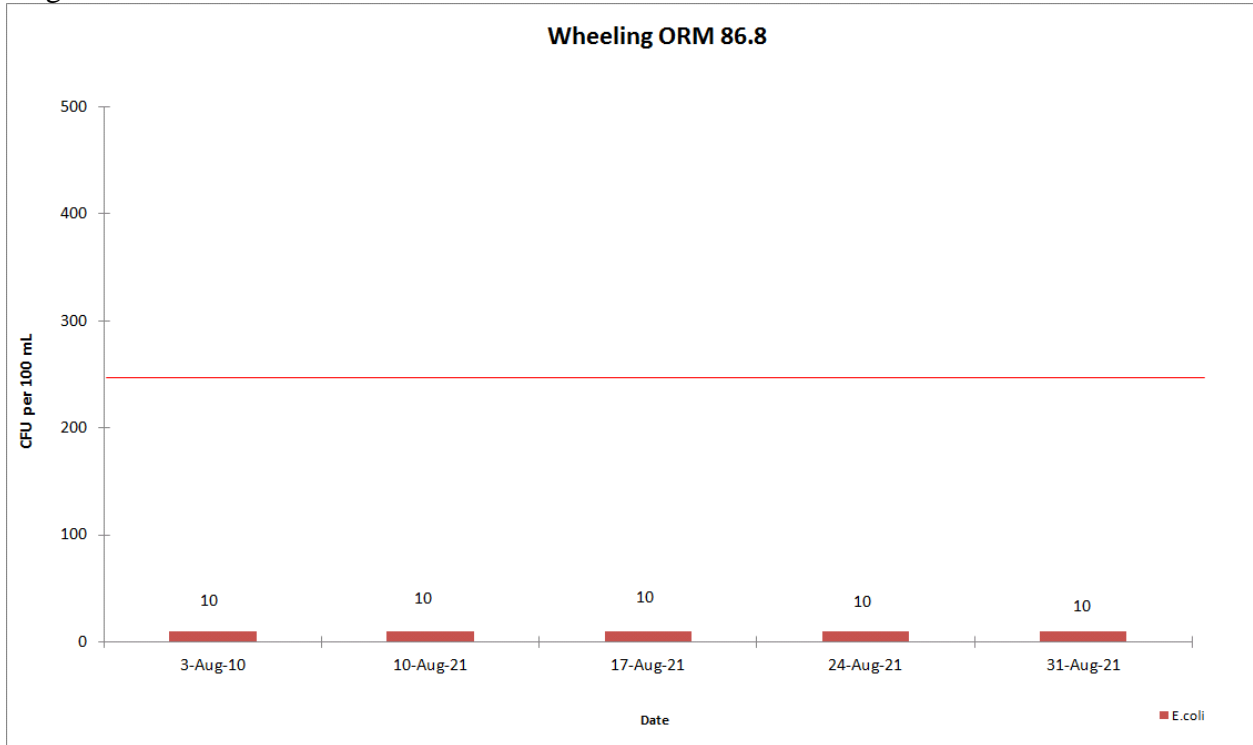
Pittsburgh

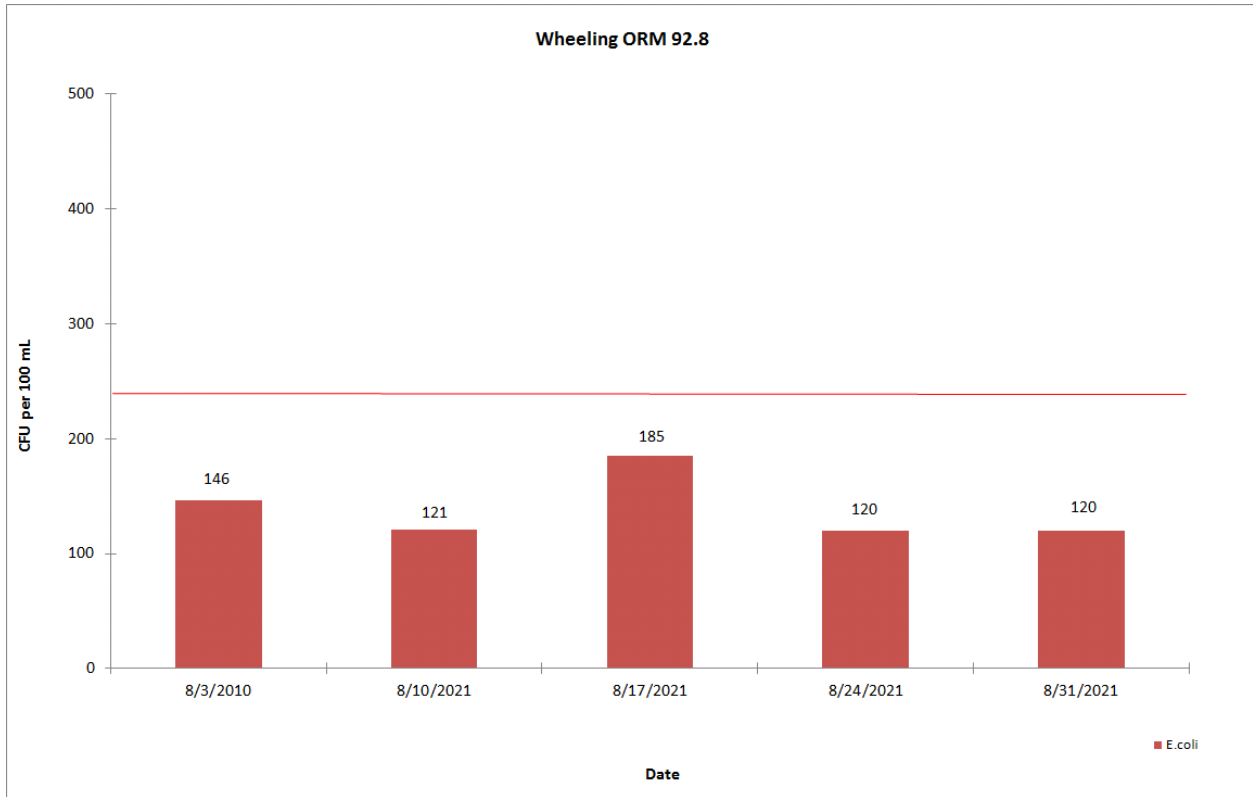
In Pittsburgh, ORM 1.4 and ORM 4.3 did not exceed the *E.coli* criteria for the month of August.



Wheeling

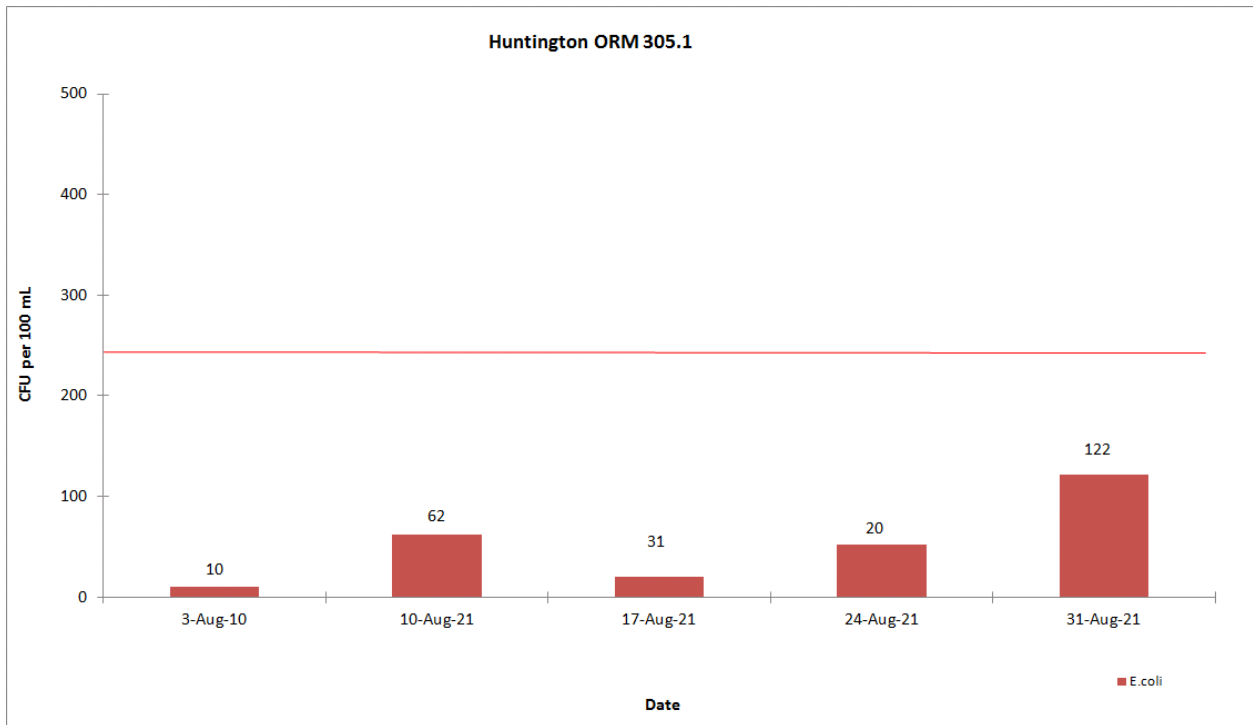
In Wheeling, ORM 86.8 and ORM 92.8 did not exceed the *E.coli* criteria for the month of August.

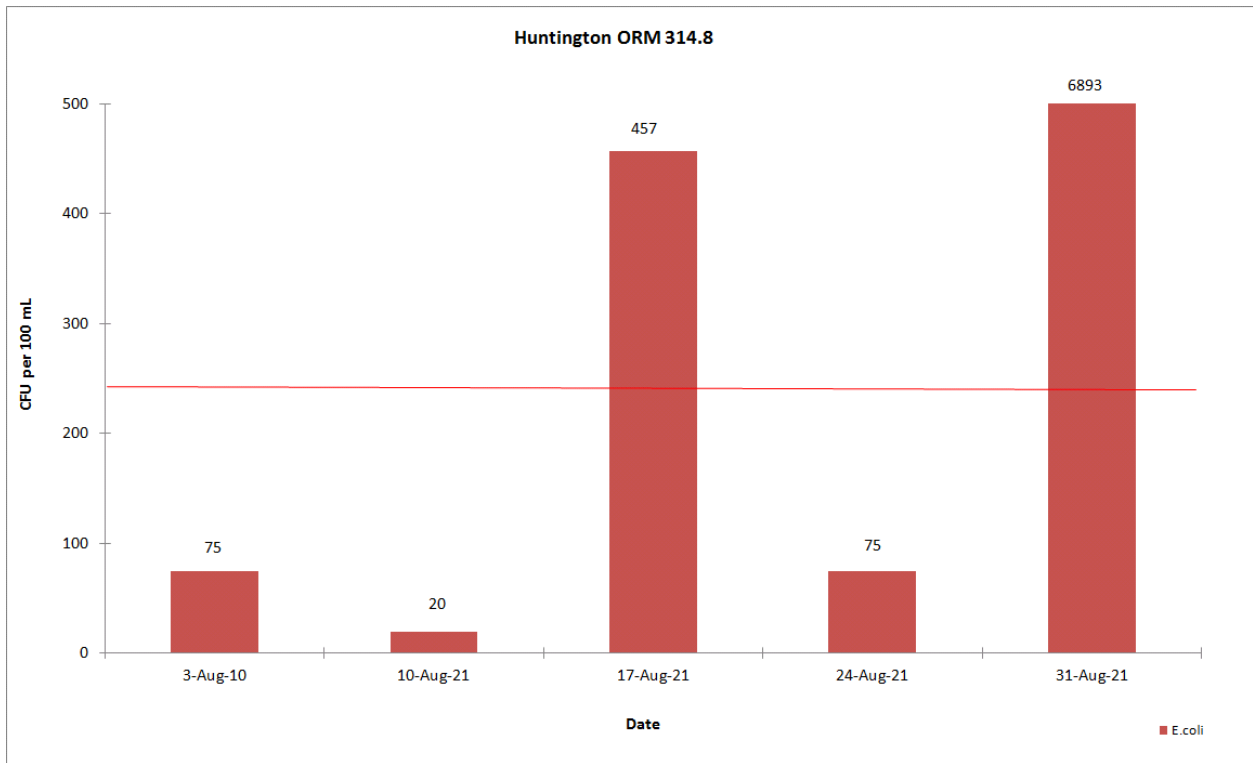




Huntington

In Huntington, ORM 305.1 did not exceed the *E.coli* criteria. ORM 314.8 had two individual exceedances for *E.coli*.

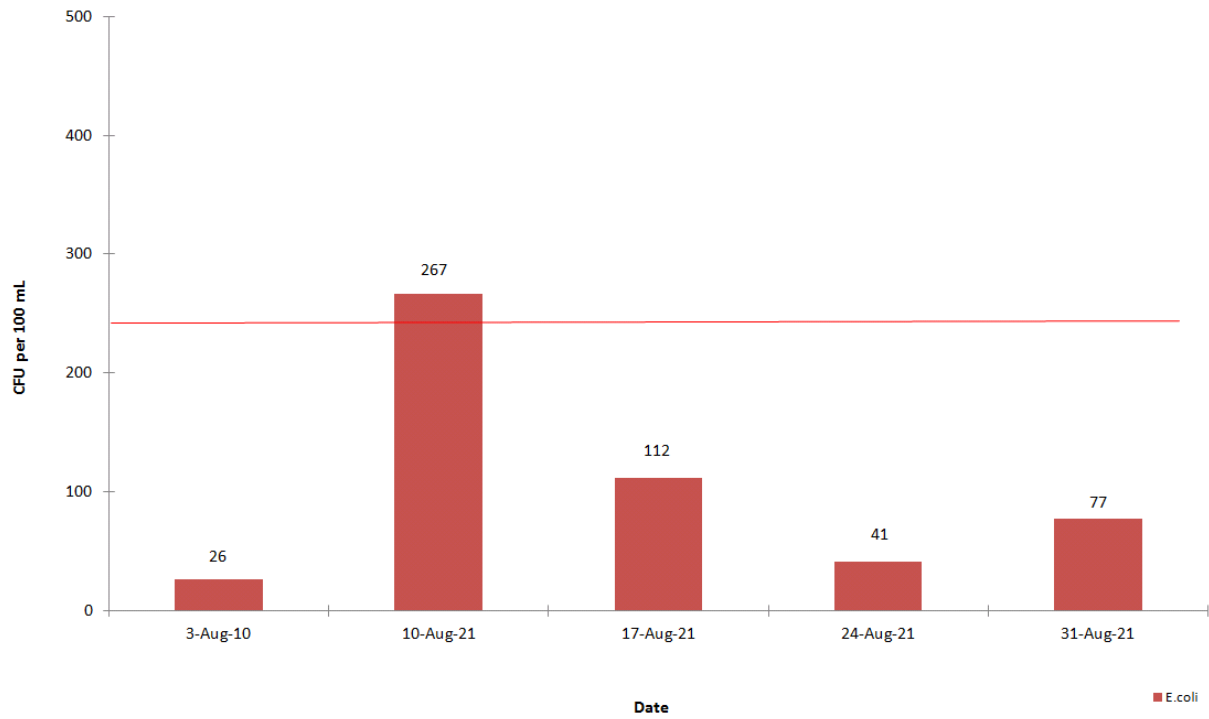




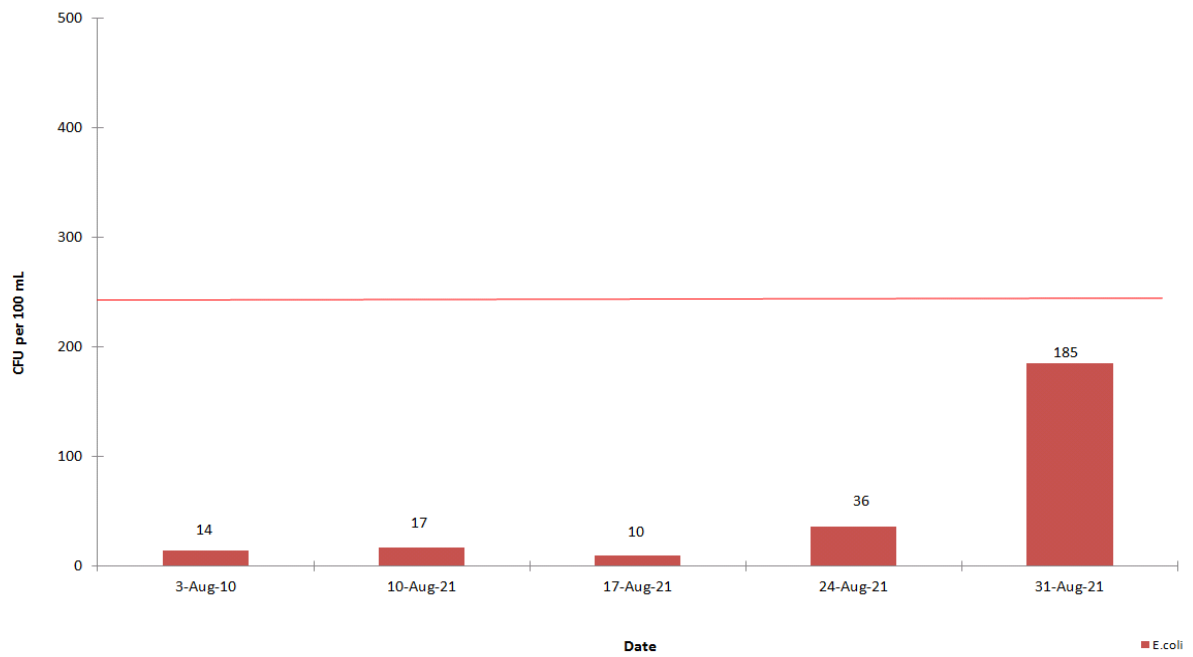
Cincinnati

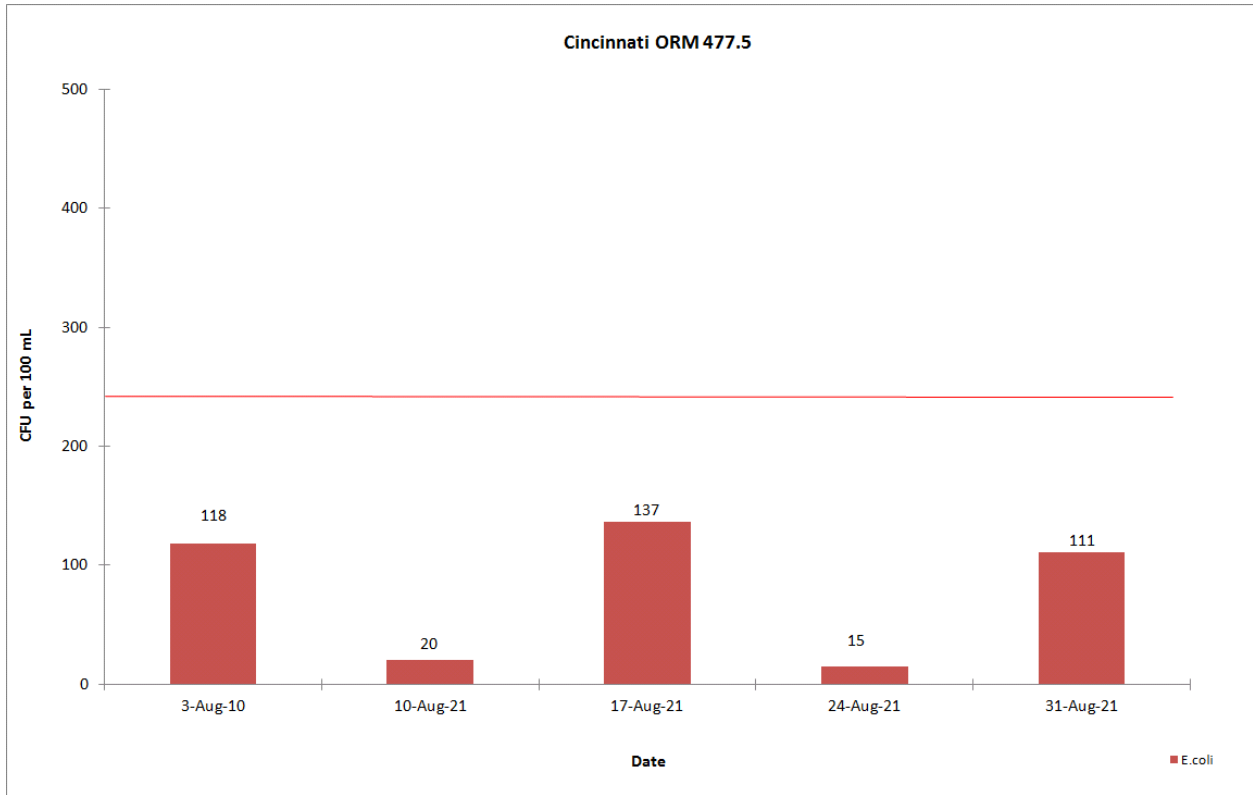
In Cincinnati, ORM 470.0 and ORM 477.5 did not exceed the *E.coli* criteria for the month of August. ORM 462.6 had one individual exceedance for *E.coli*.

Cincinnati ORM 462.6



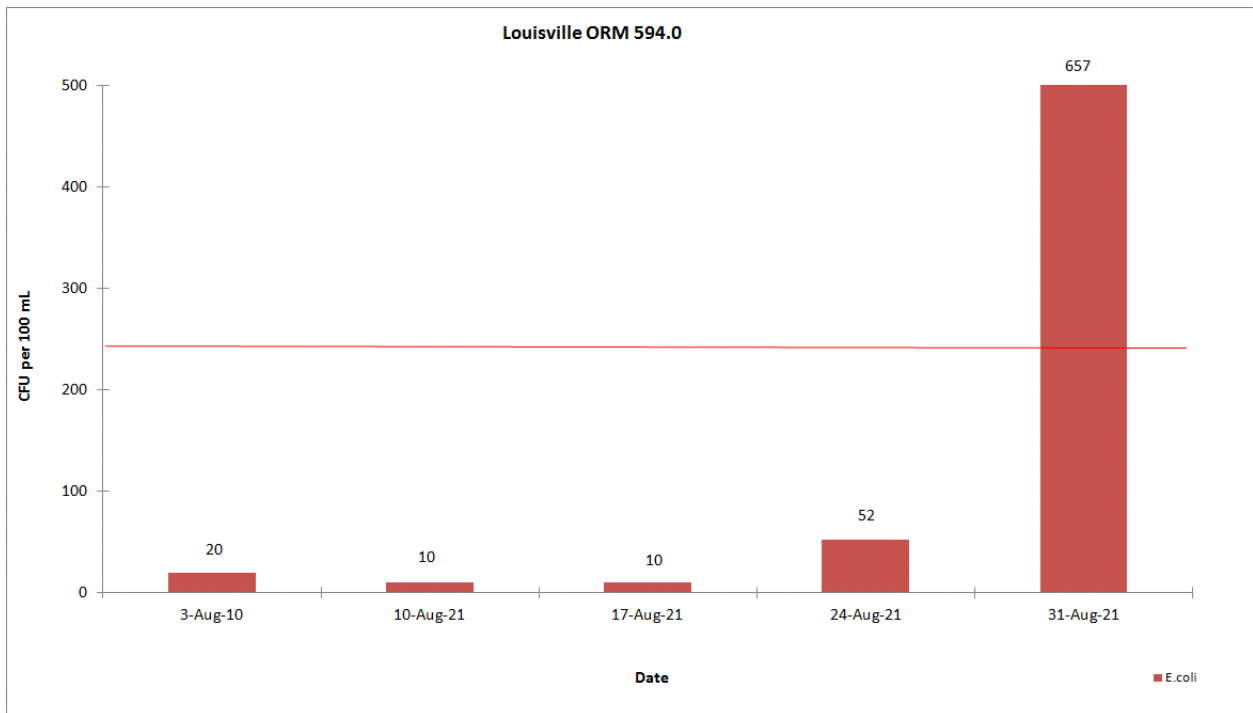
Cincinnati ORM 470.0

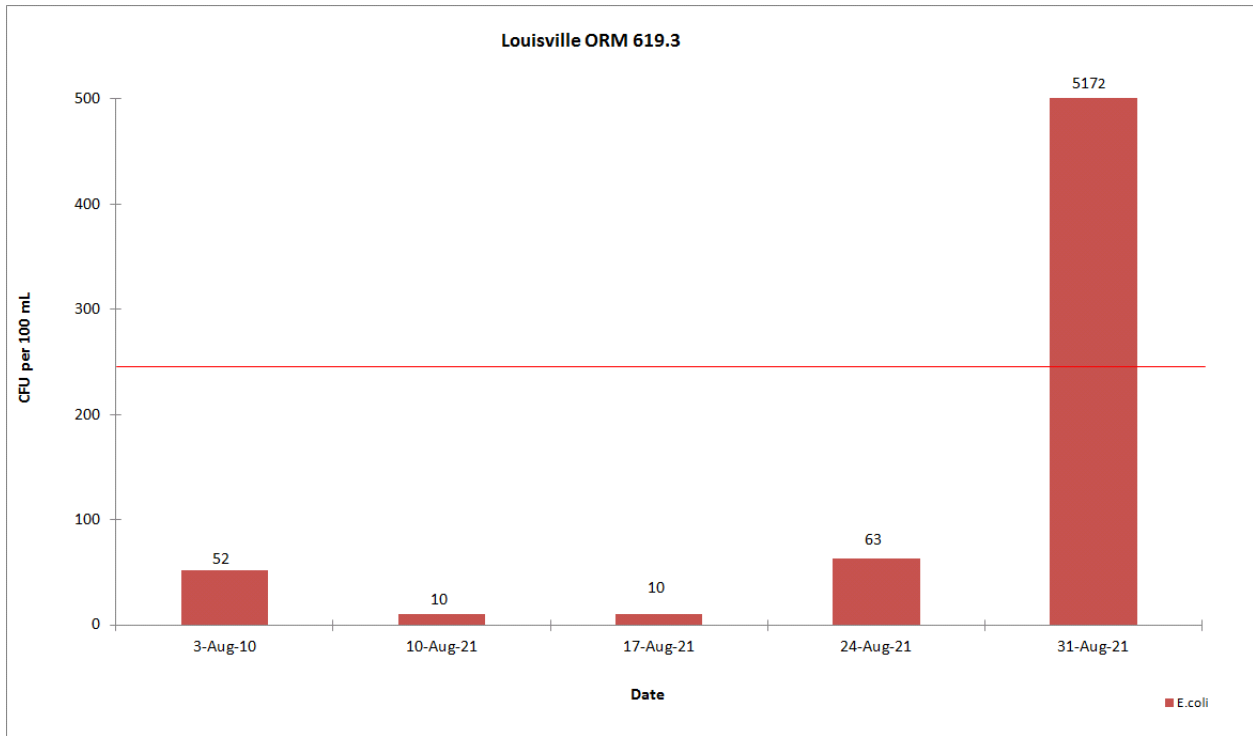




Louisville

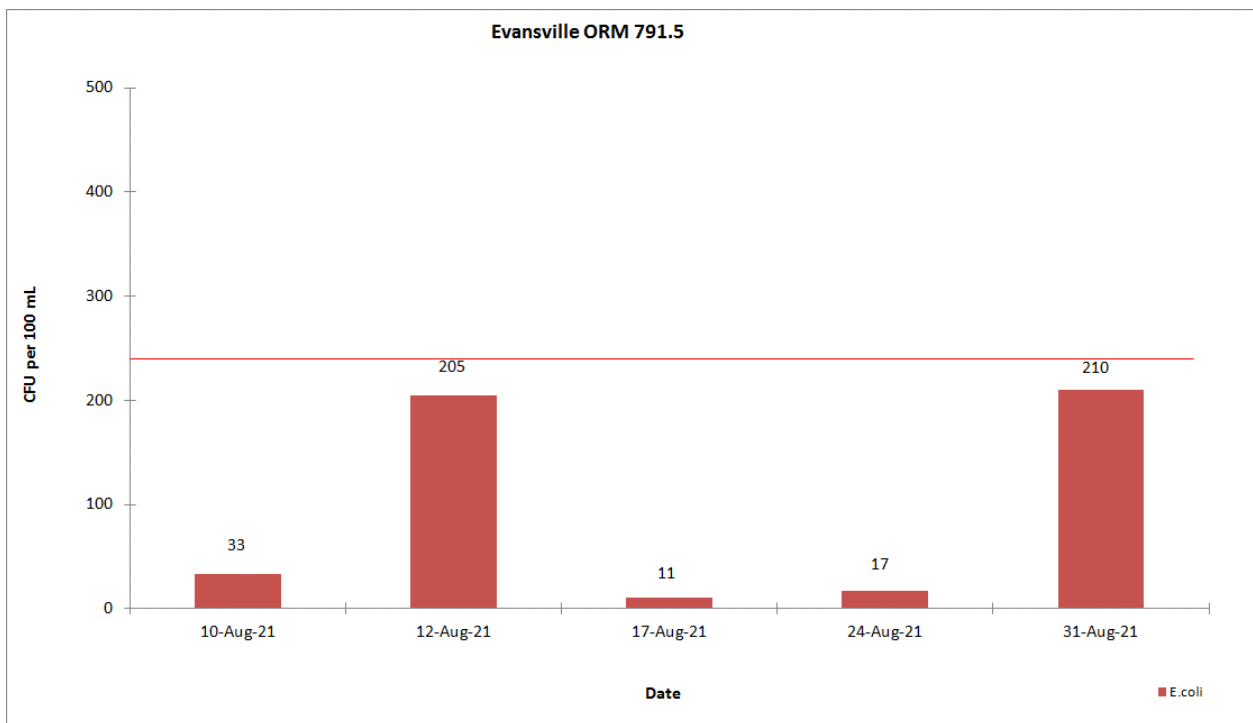
In Louisville, ORM 594.0 and ORM 619.3 both had one individual exceedance for *E.coli*.

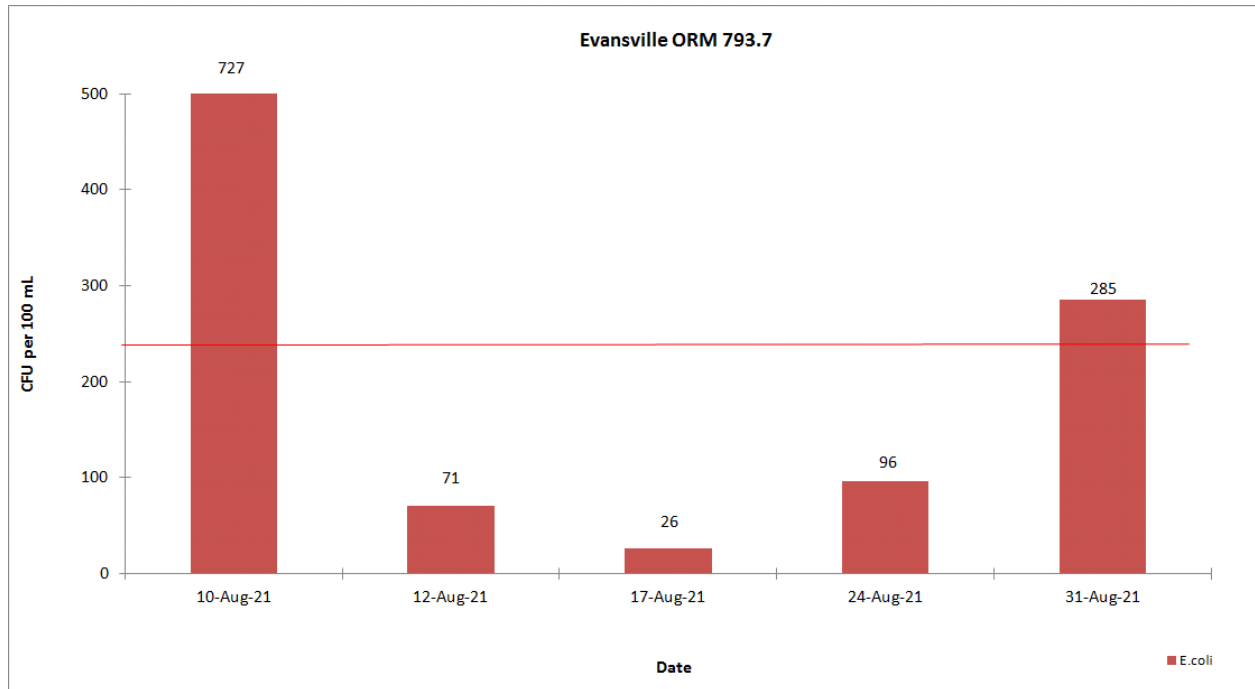




Evansville

In Evansville, ORM 791.5 did not exceed the *E.coli* criteria. ORM 793.7 had two individual exceedances for *E.coli*.





Dissolved Oxygen and Temperature

A summary of the dissolved oxygen and temperature readings collected in August 2021 are displayed in the attached tables. During the months of May through October, ORSANCO interrogates eleven stations for dissolved oxygen (D.O.) and temperature data once per day, Monday through Friday, for the previous 24-hour period. This data is compiled in-house to produce a report showing the minimum, maximum and average of the acquired D.O. and temperature readings. ORSANCO's water quality criteria for the protection of warm water aquatic life habitat are:

- The minimum D.O. concentration shall not be less than 4.0 mg/L at any time.
- Average D.O. concentration shall be at least 5.0 mg/L for each calendar day.
- During the April 15 – June 15 spawning season, a minimum D.O. concentration of 5.0 mg/L shall be maintained at all times.
- The monthly average of the daily maximum for August 1-31 is:
 - 89.0 °F at MP 0 to MP 341.
 - 89.0 °F at MP 341.1 to MP 606.8.
 - 89.0 °F at MP 606.9 to MP 981.

Greenup, Meldahl, Markland, McAlpine, and Smithland saw D.O. levels drop below the

average of 5.0 mg/L. There were no temperature violations for the month of August.

Please click on the link below to be directed to the DO/Temperature tables for August 2021:
<http://www.orsanco.org/dissolved-oxygen-and-temperature>

Atrazine

Evansville drinking water utility samples the Ohio River at their intake and analyzes for atrazine by immunoassay technique. Results for August 2021 are presented below. Evansville had no criteria violations of the Maximum Contaminant Level (MCL) of 3.0 ug/L set by the Safe Drinking Water Act for finished drinking water.

