

# Monthly Quality Update June 2018



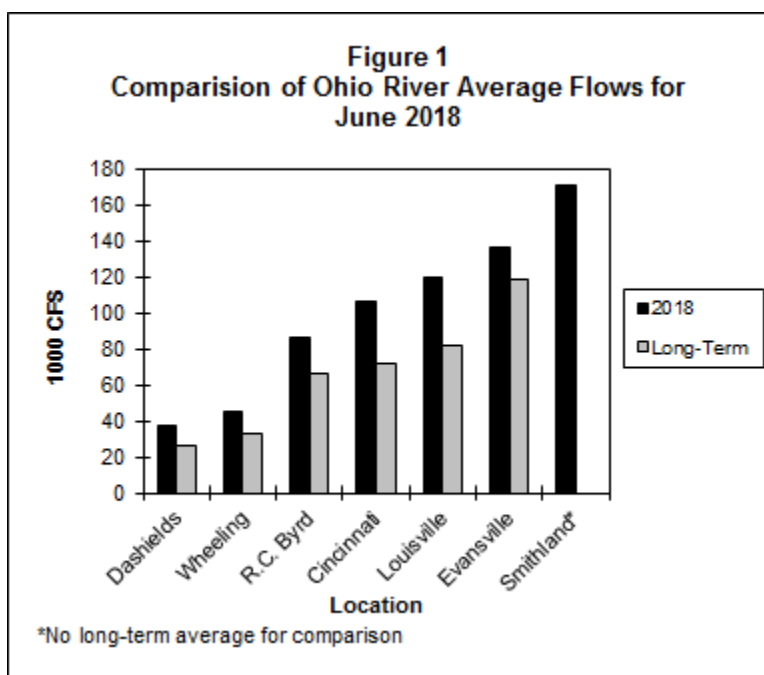
## OHIO RIVER VALLEY WATER SANITATION COMMISSION

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# Flows

Average flows at seven Ohio River locations are displayed below. At each location the June 2018 average flow (black bar) is contrasted with the long-term average monthly flow (gray bar). At all the locations the June 2018 average flow were above the long-term average monthly flow.



# Bacteria

The bacteria monitoring results from six Ohio River locations in June 2018 are in the attached graphs. There are thirteen sites being sampled and West Virginia is the only state that has both Fecal Coliform and *E.coli* results. ORSANCO's water quality criteria for the protection of human health during the contact recreation season are:

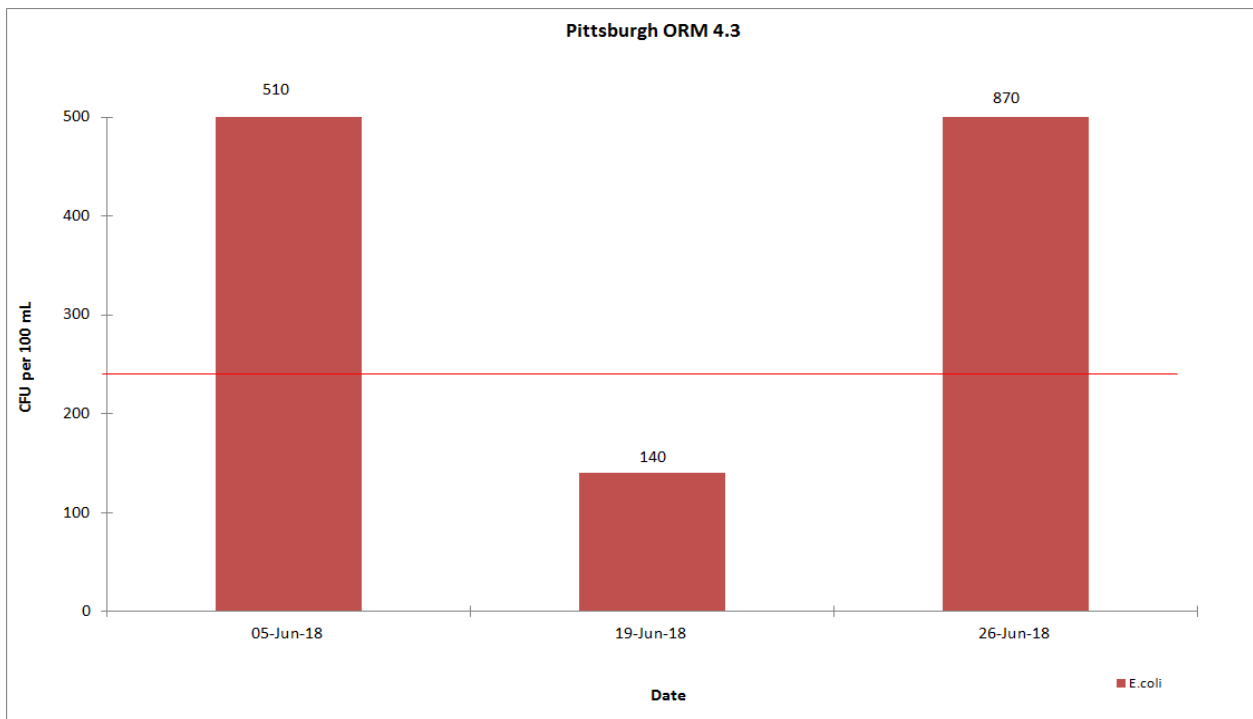
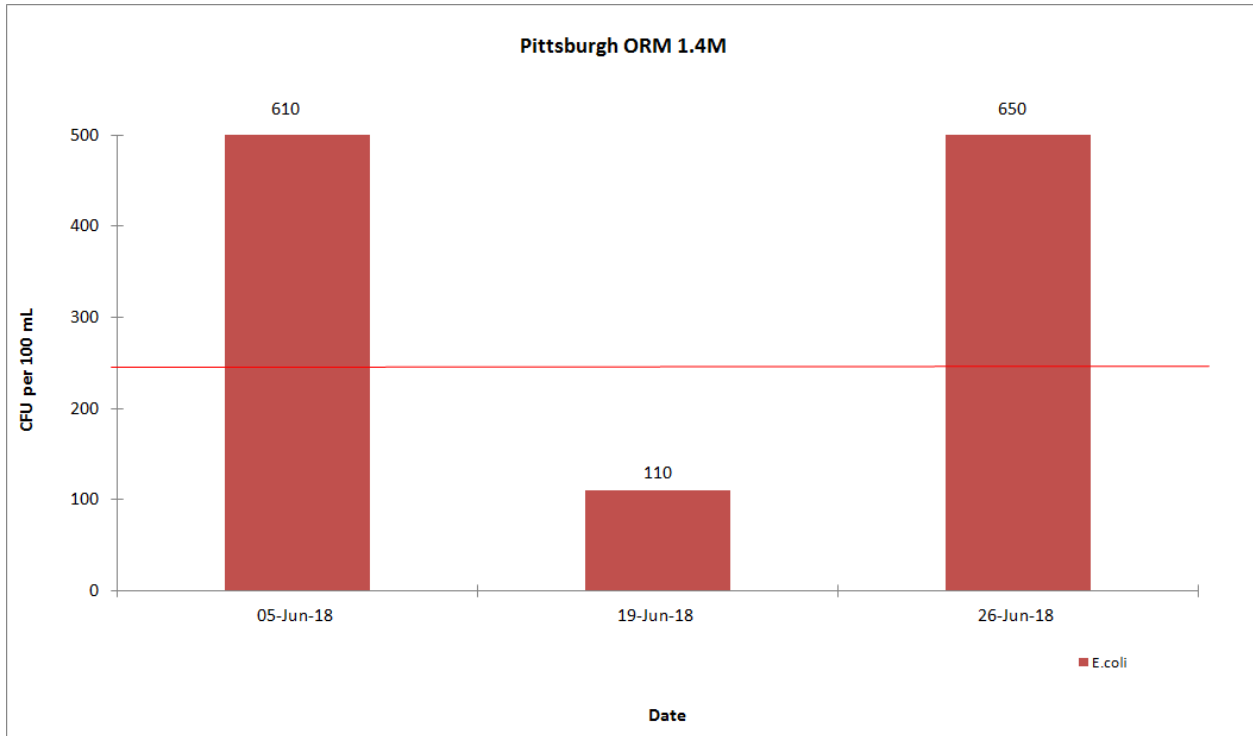
- *E. coli* count is not to exceed 240 CFU/100mL in more than 25 percent of samples. (*E.coli* is shown with a red line on the graph.)
- *E. coli* shall not exceed 130 CFU/100mL as a 90-day geometric mean, based on not less than five samples per month.

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.

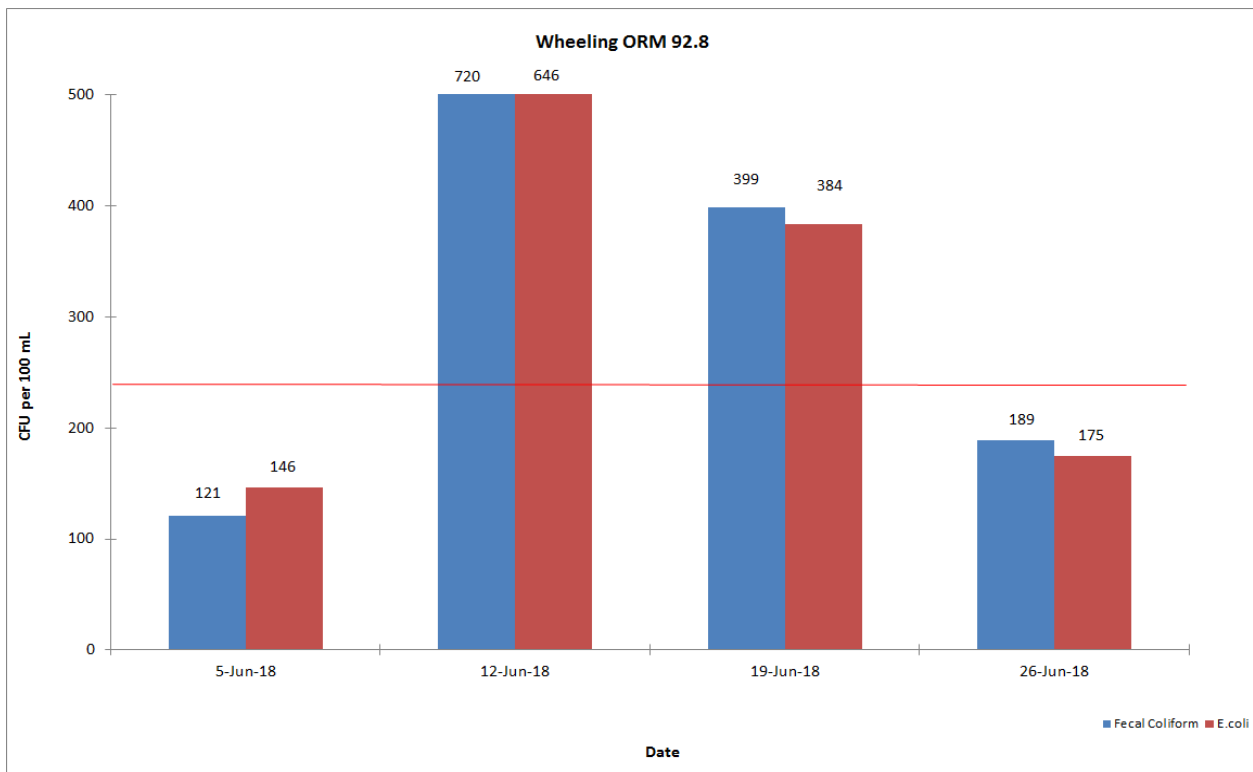
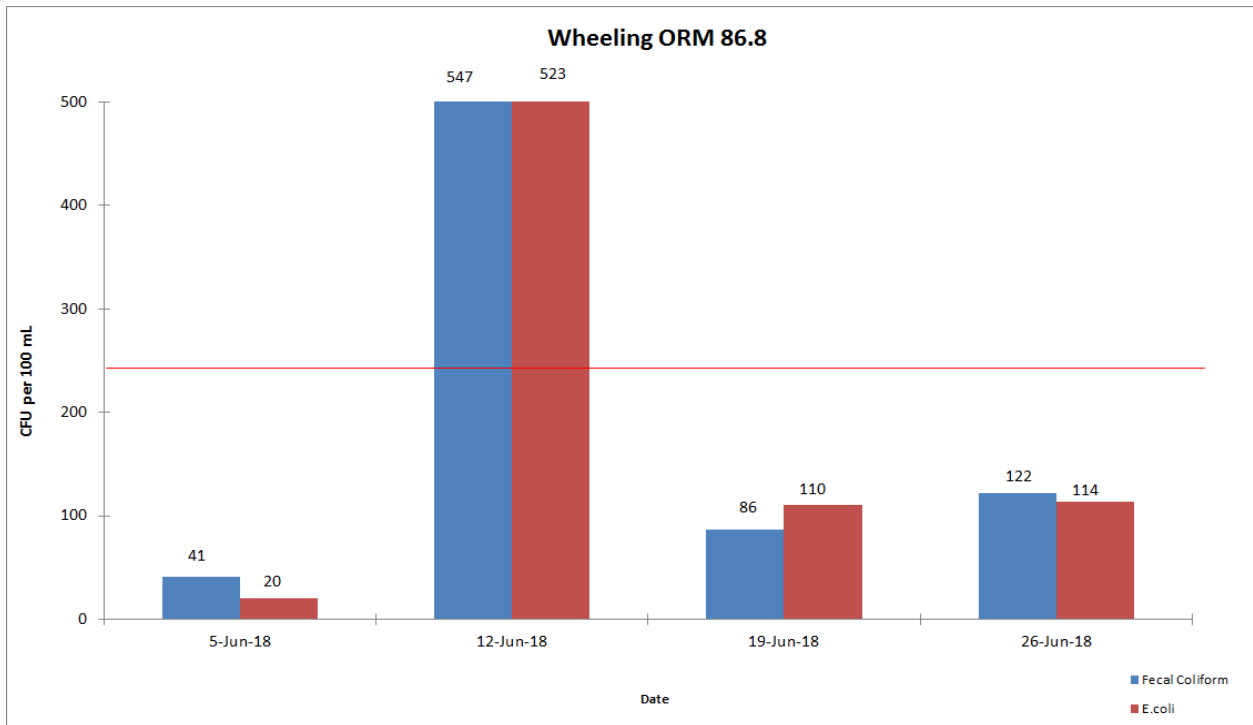
## Pittsburgh

In Pittsburgh, ORM 1.4M and ORM 4.3 both had two individual exceedances for *E.coli*. Due to weather conditions, only three samples were taken.



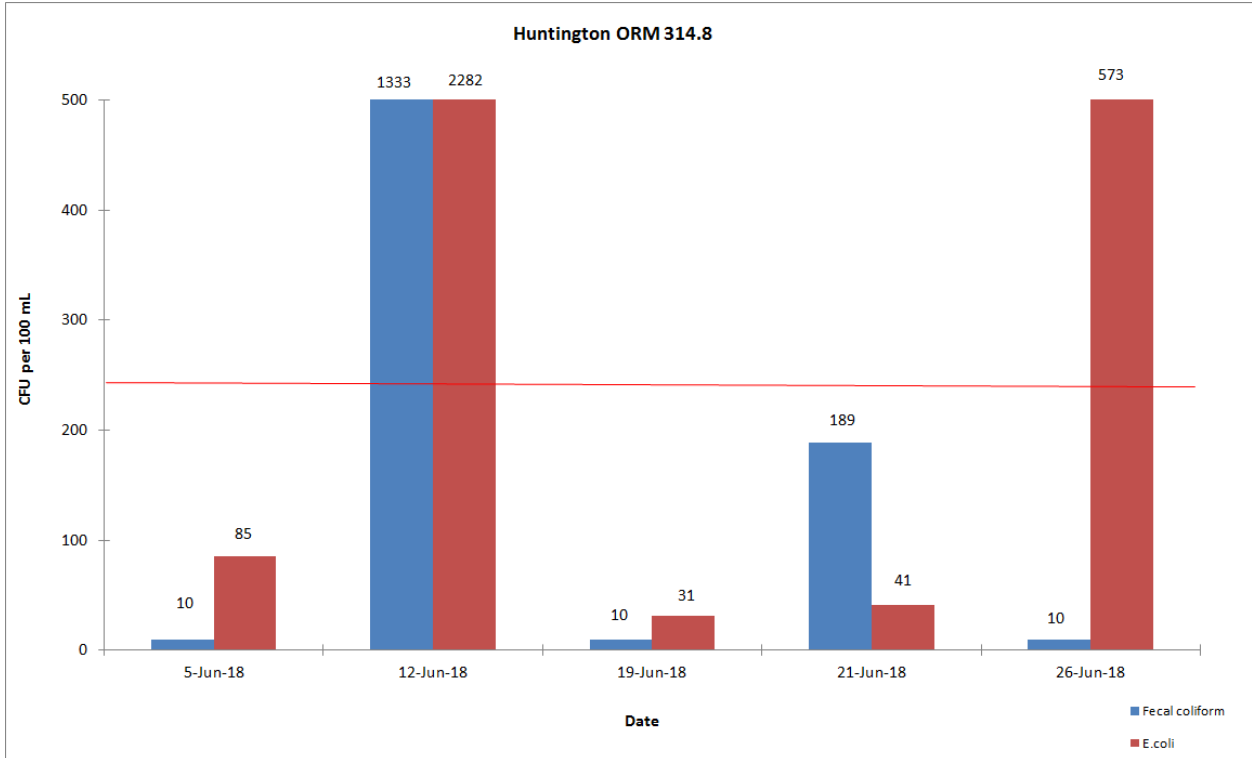
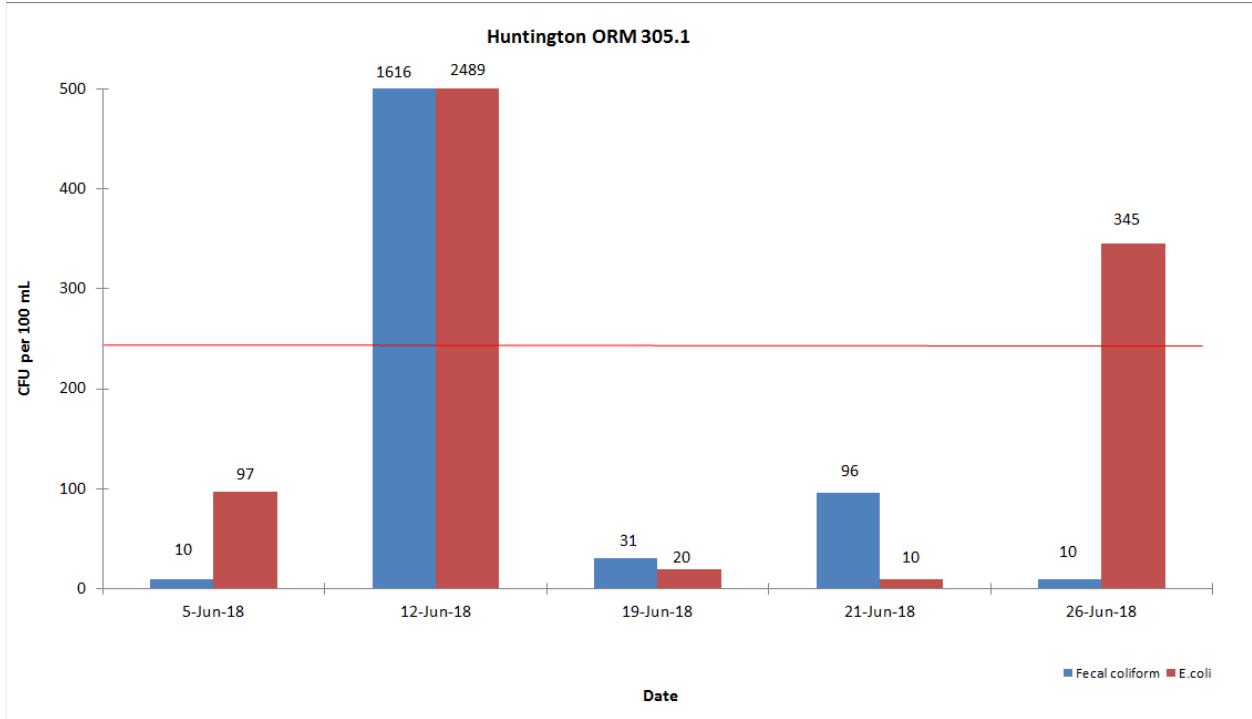
## Wheeling

In Wheeling, ORM 86.8 had one individual exceedance for *E.coli*. ORM 92.8 had two individual exceedances for *E.coli*. Due to staff challenges, only four samples were taken.



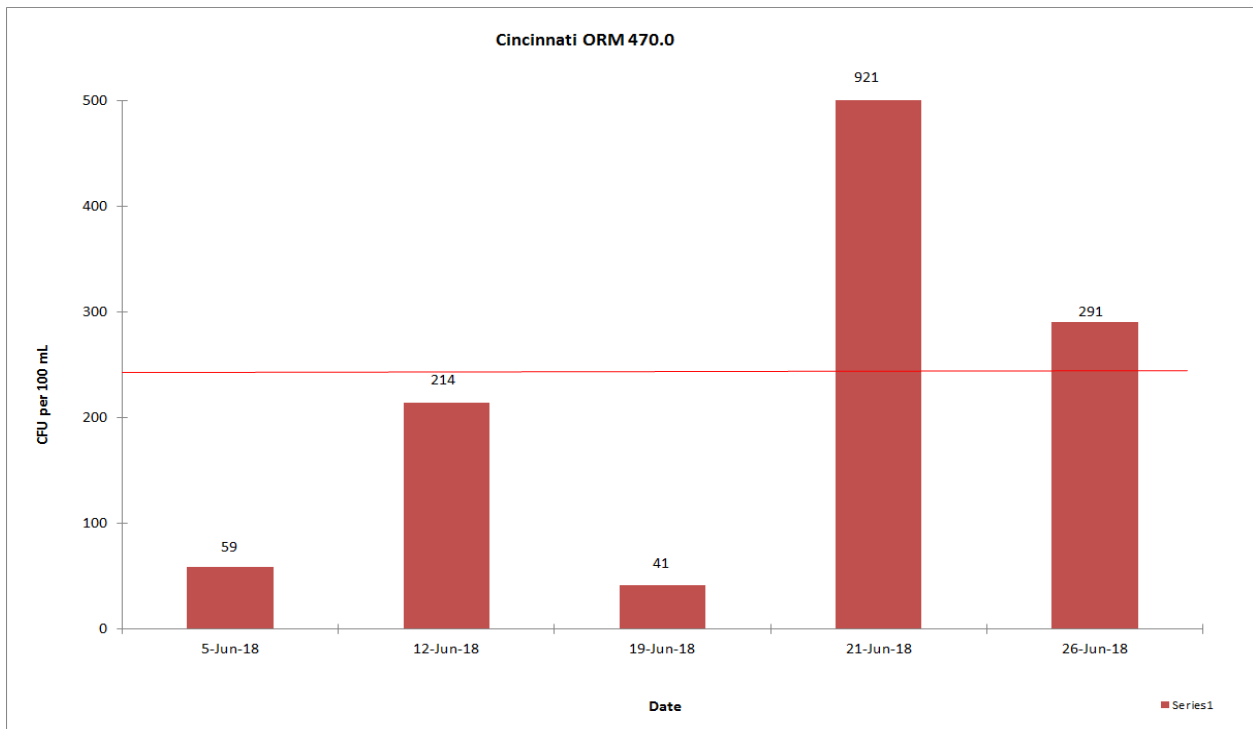
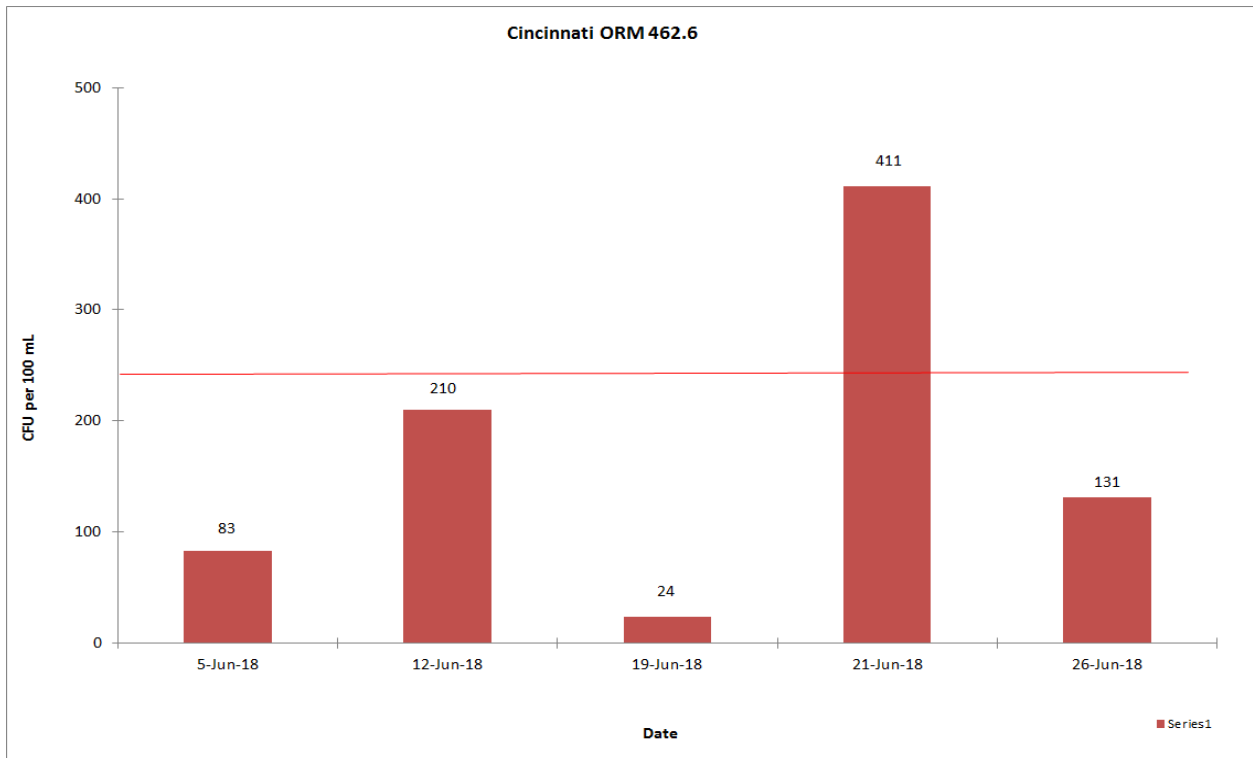
## Huntington

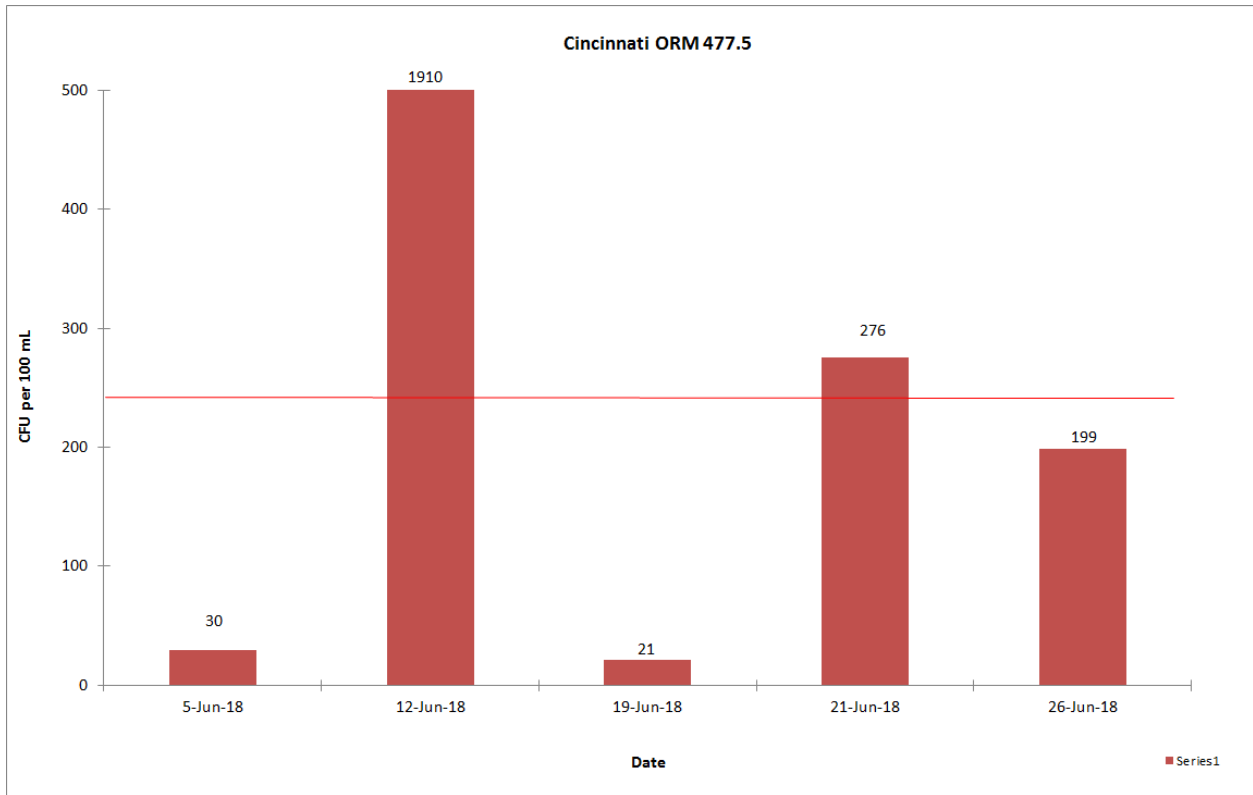
In Huntington, ORM 305.1 and ORM 314.8 had two individual exceedances for *E.coli*.



## Cincinnati

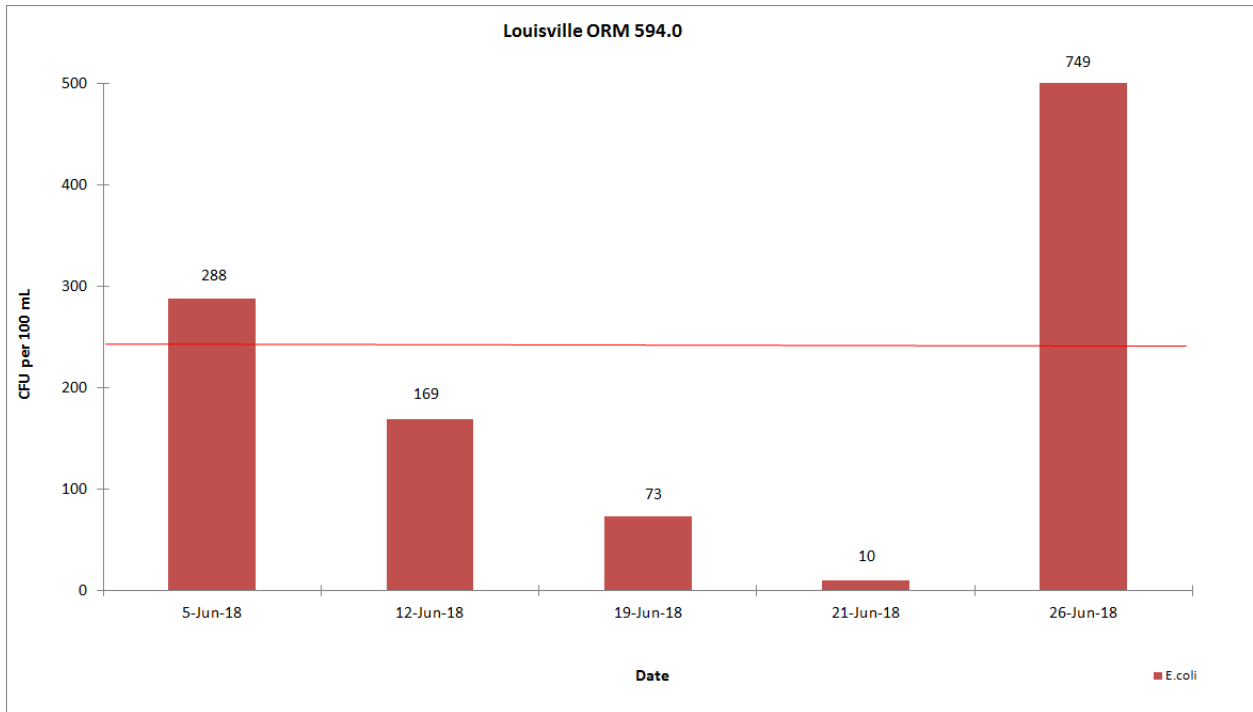
In Cincinnati, ORM 462.6 one individual exceedance for *E.coli*. ORM 470.0 and ORM 477.5 had two individual exceedances for *E.coli*.

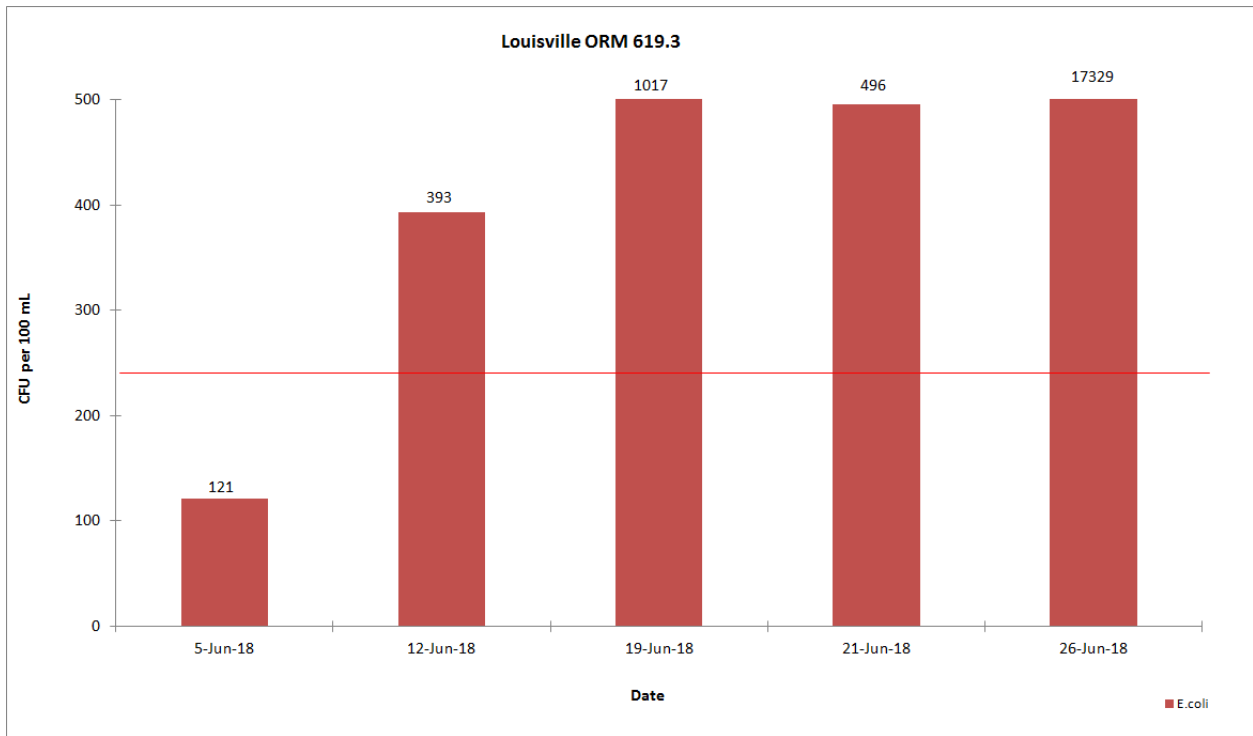




**Louisville**

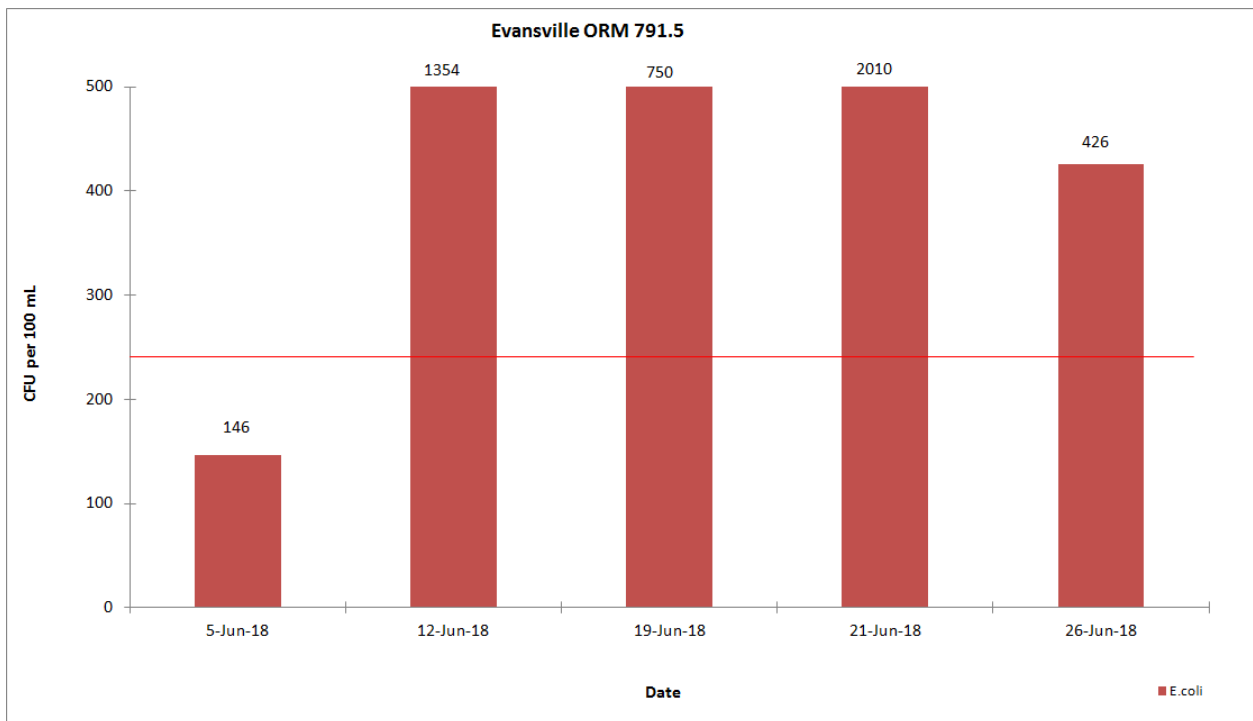
In Louisville, ORM 594.0 had two individual exceedances for *E.coli*. ORM 619.3 had four individual exceedances for *E.coli*.



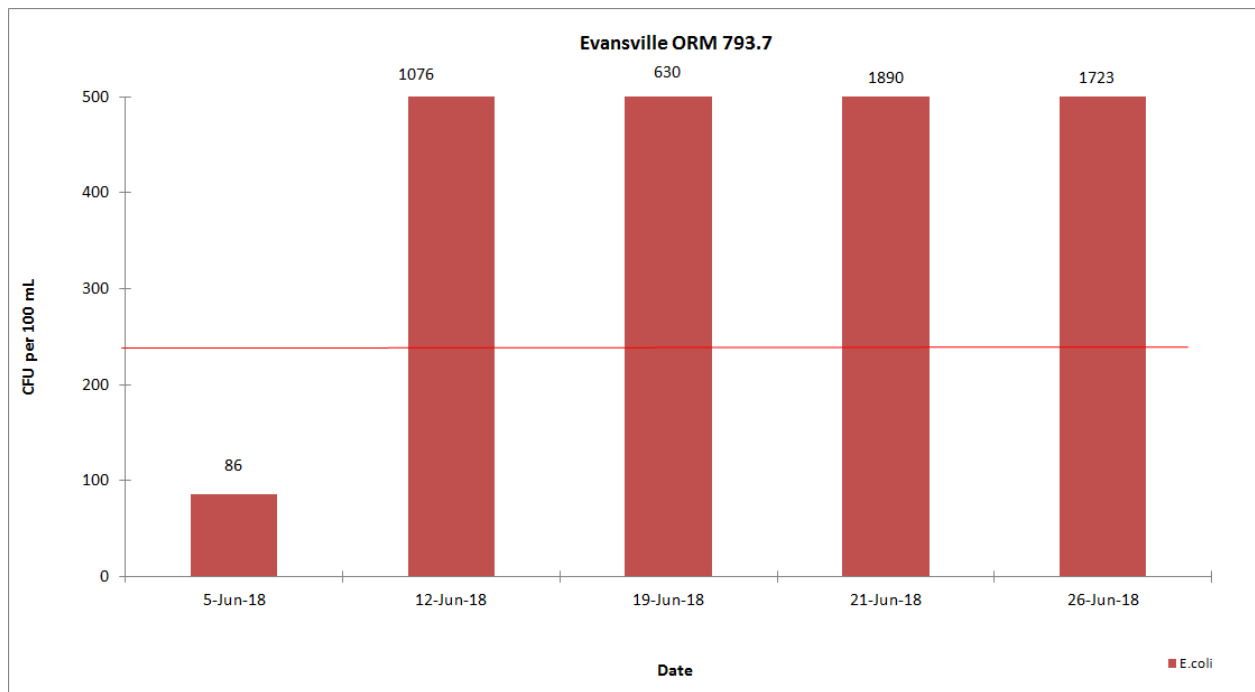


## Evansville

In Evansville, ORM 791.5 and ORM 793.7 both had four individual exceedances for *E.coli*.







## **Dissolved Oxygen and Temperature**

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 June 1-15 is:
  - 78.8 °F at MP 0 to MP 341.
  - 83.5 °F at MP 341.1 to MP 606.8.
  - 77.6 °F at MP 606.9 to MP 981.
- The monthly average of the daily maximum for June 16-30 is:
  - 87.0 °F at MP 0 to MP 341.

- 87.0 °F at MP 341.1 to MP 606.8
- 87.0 °F at MP 606.9 to MP 981.

Markland and McAlpine had one day that the DO concentration fell below 5.0 mg/L. Racine, Cannelton, and Smithland had temperature exceedances for the first half of the month of June. Kyger had some instrumentation issues during the month of June.

Please click on this link to be directed to the DO/Temperature tables for June 2018:  
<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 June 2018 were not available.