

# Monthly Quality Update June 2019



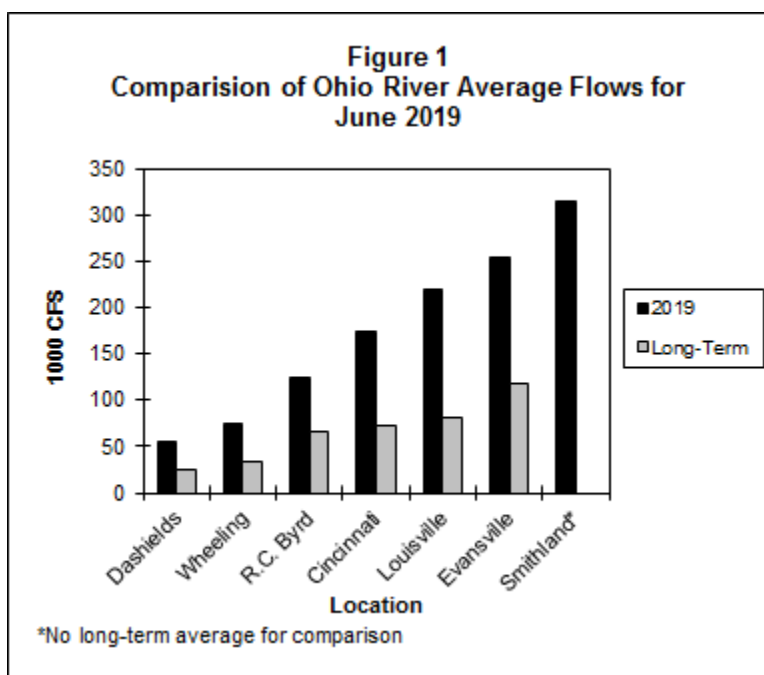
## OHIO RIVER VALLEY WATER SANITATION COMMISSION

5735 Kellogg Avenue, Cincinnati, Ohio 45230

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# Flows

Average flows at seven Ohio River locations are displayed below. At each location the June 2019 average flow (black bar) is contrasted with the long-term average monthly flow (gray bar). At all the locations the June 2019 average flow were above the long-term average monthly flow.



# Bacteria

The bacteria monitoring results from six Ohio River locations in June 2019 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:

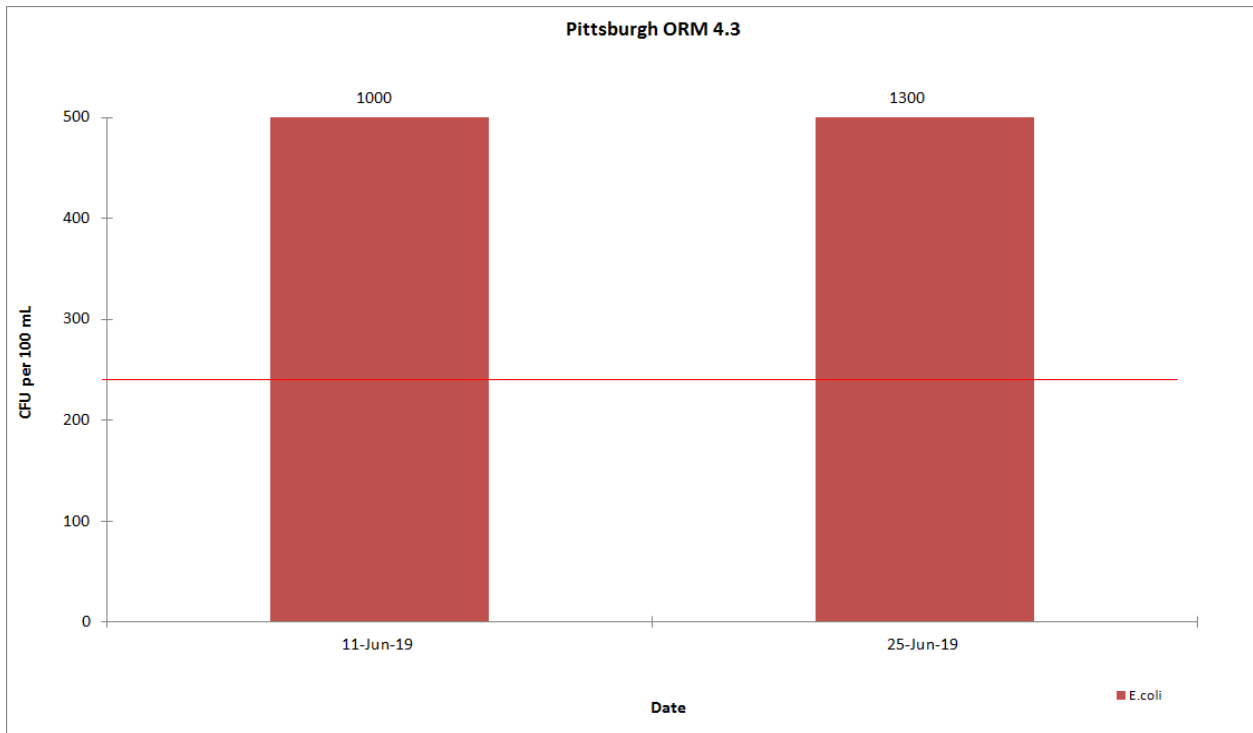
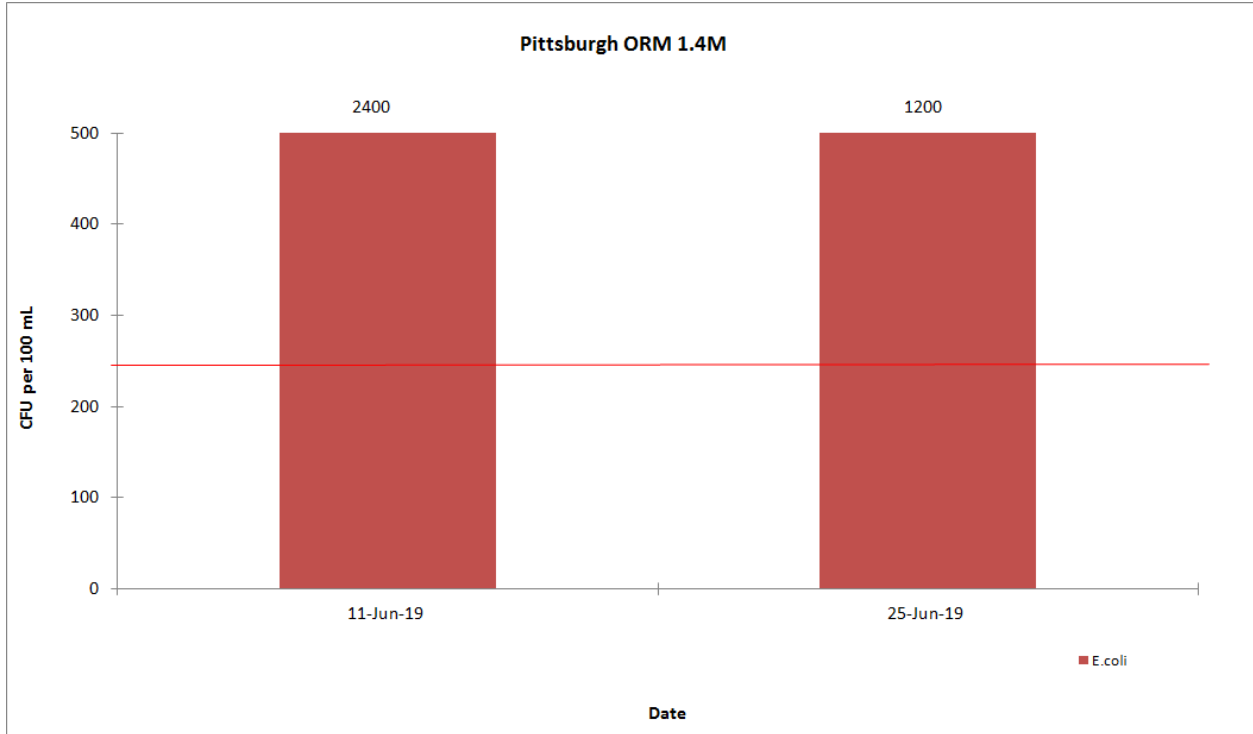
- *E. coli* count is not to exceed 240 CFU/100mL in more than 25 percent of samples. (*E.coli* is shown with a red line on the graph.)
- *E. coli* shall not exceed 130 CFU/100mL as a 90-day geometric mean, based on not less than five samples per month.

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.

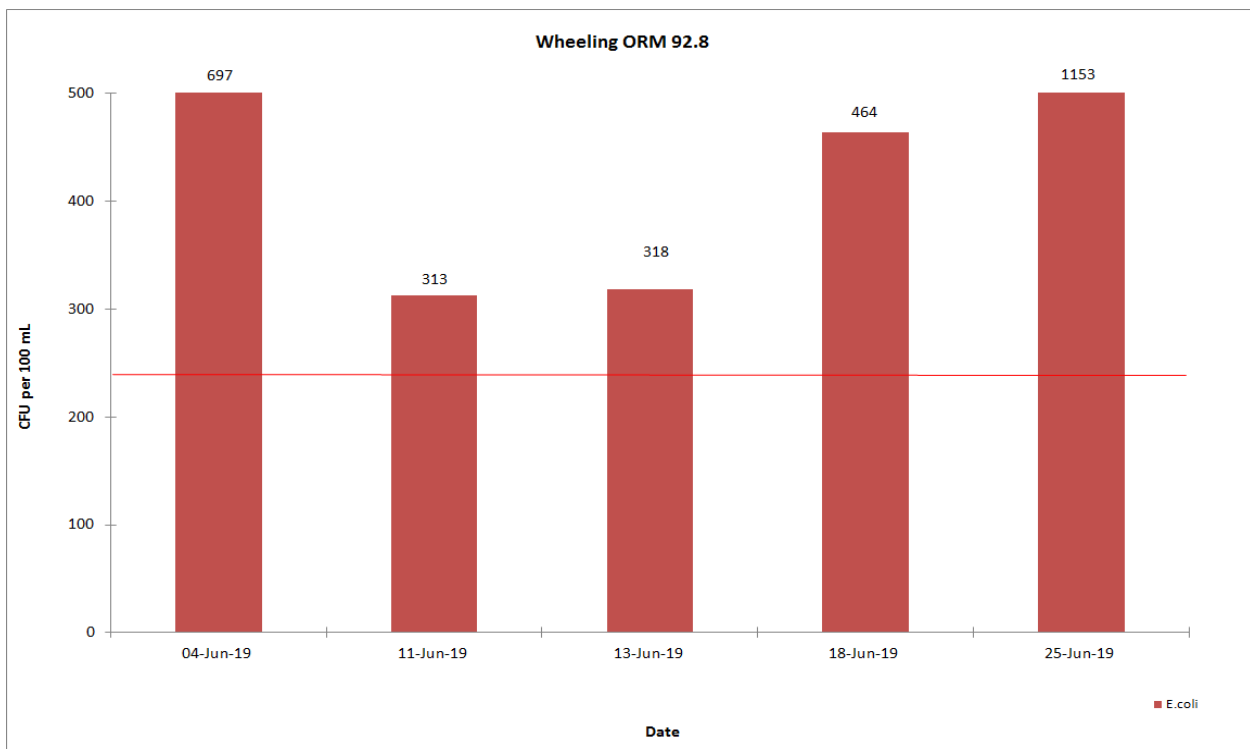
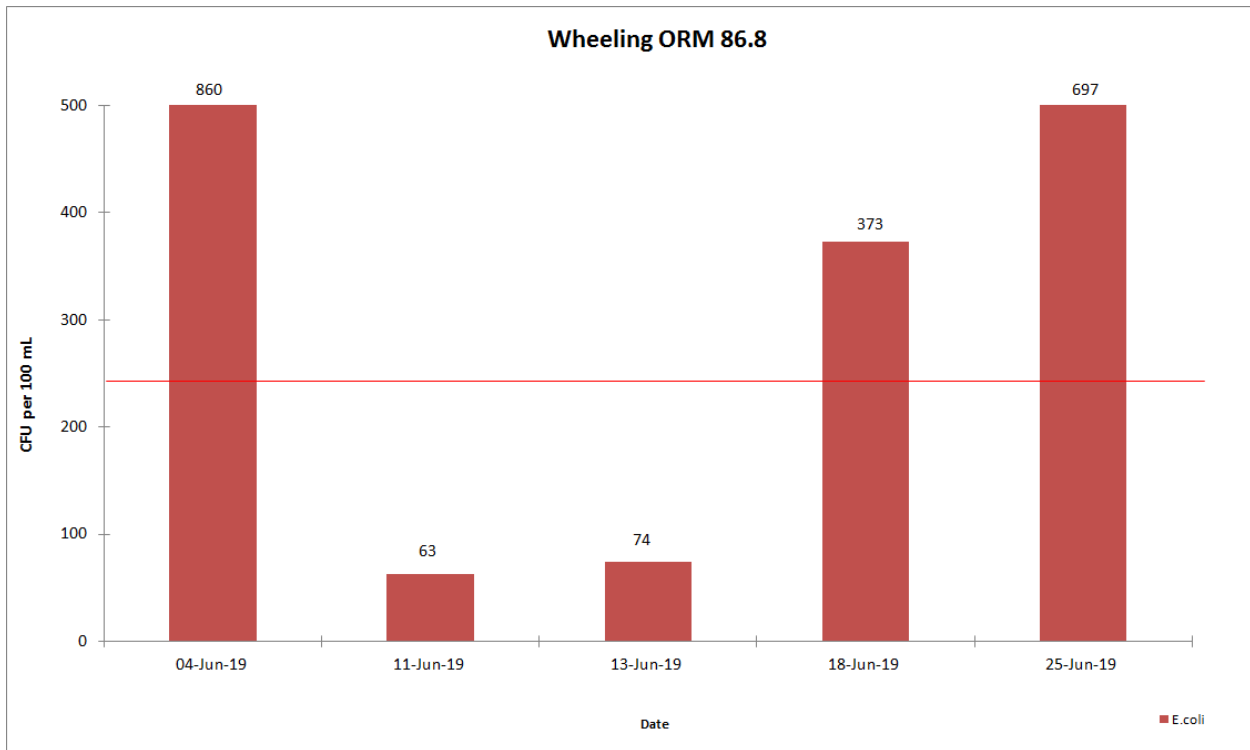
## Pittsburgh

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



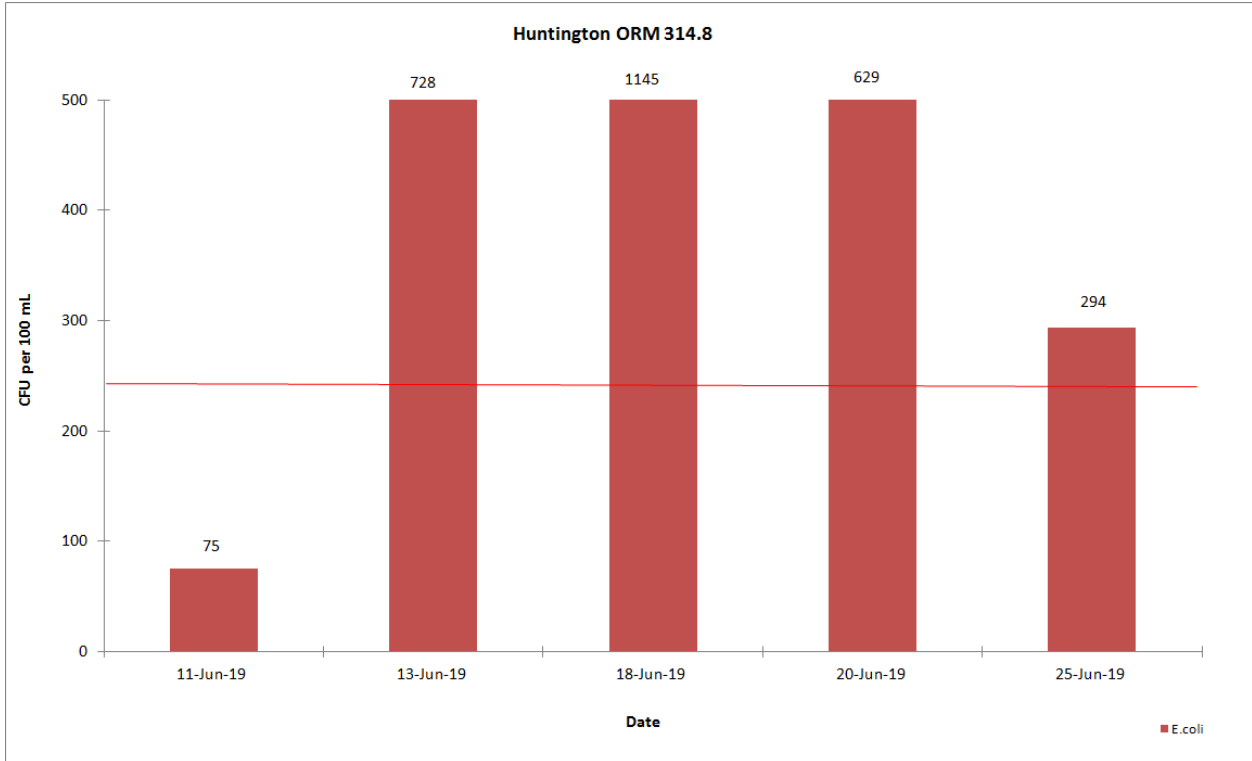
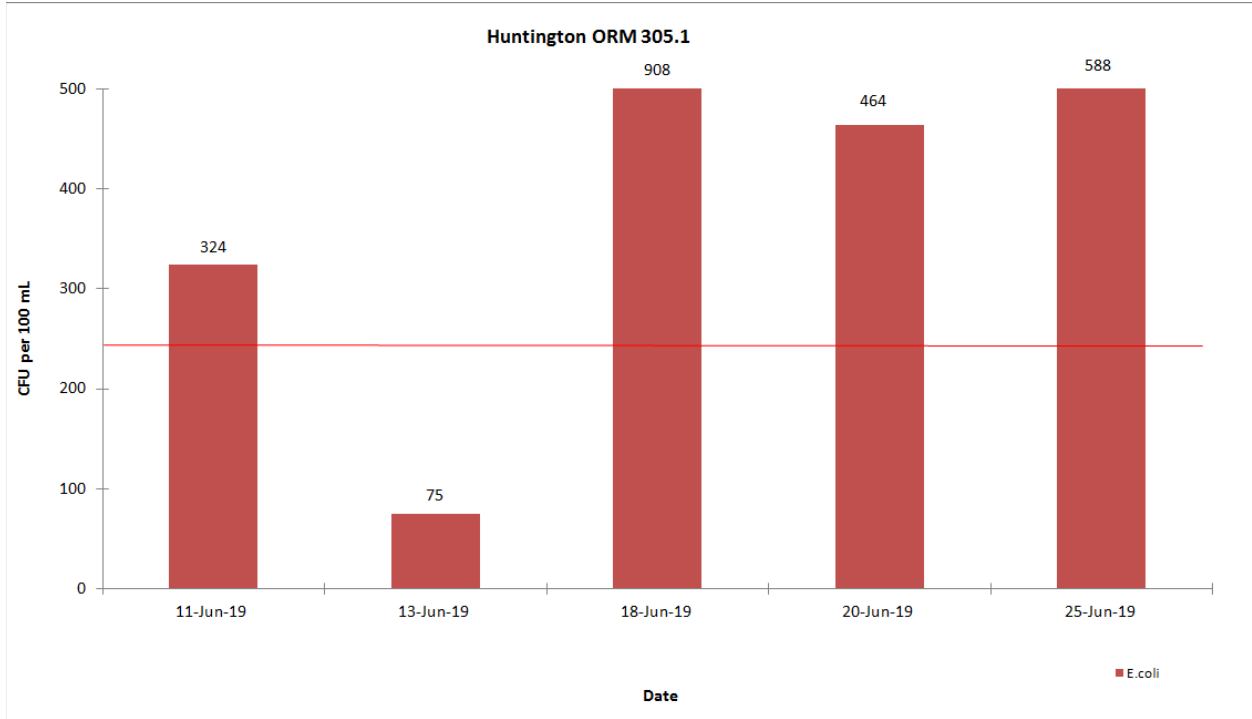
## Wheeling

In Wheeling, ORM 86.8 had three individual exceedances for *E.coli*. ORM 92.8 had five individual exceedances for *E.coli*.



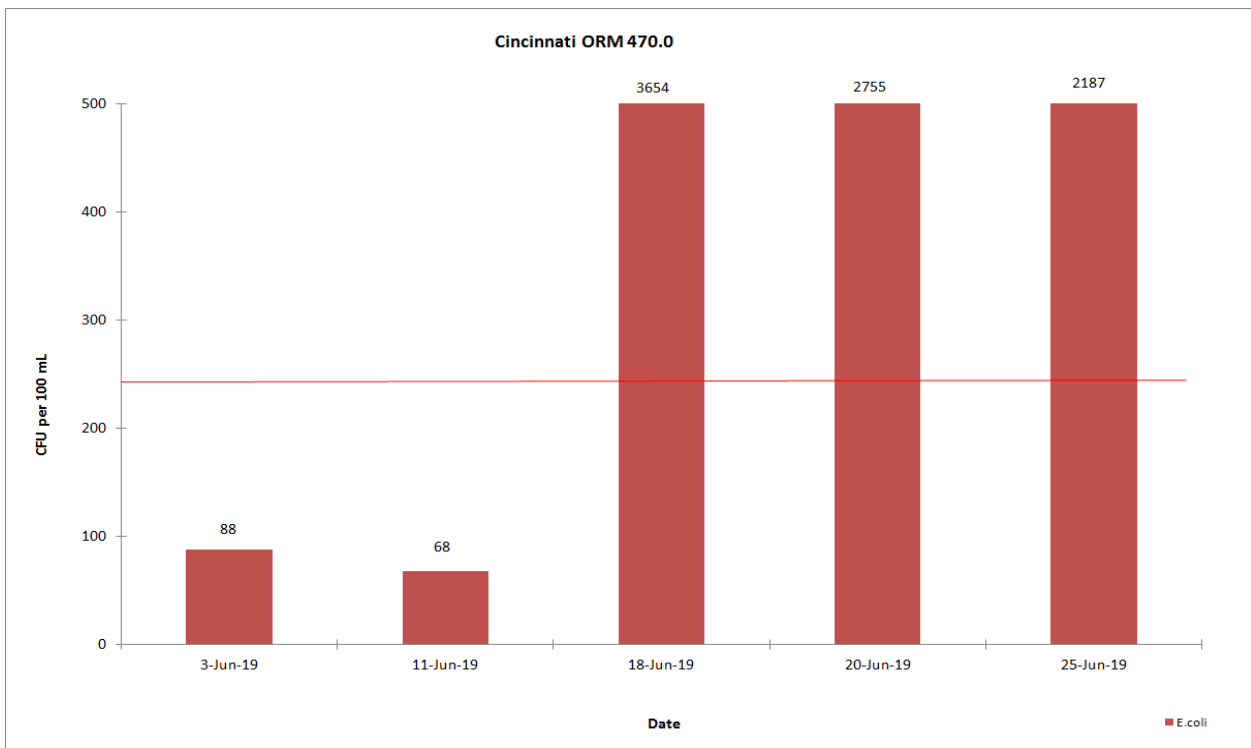
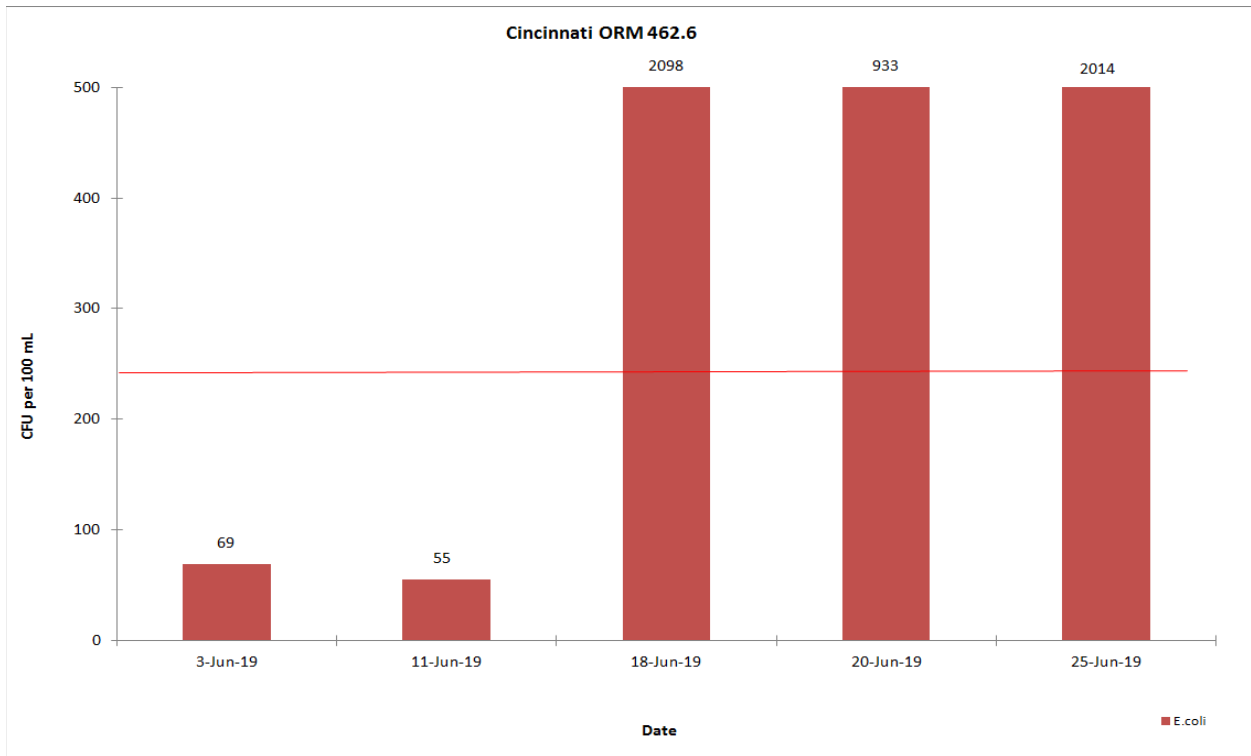
## Huntington

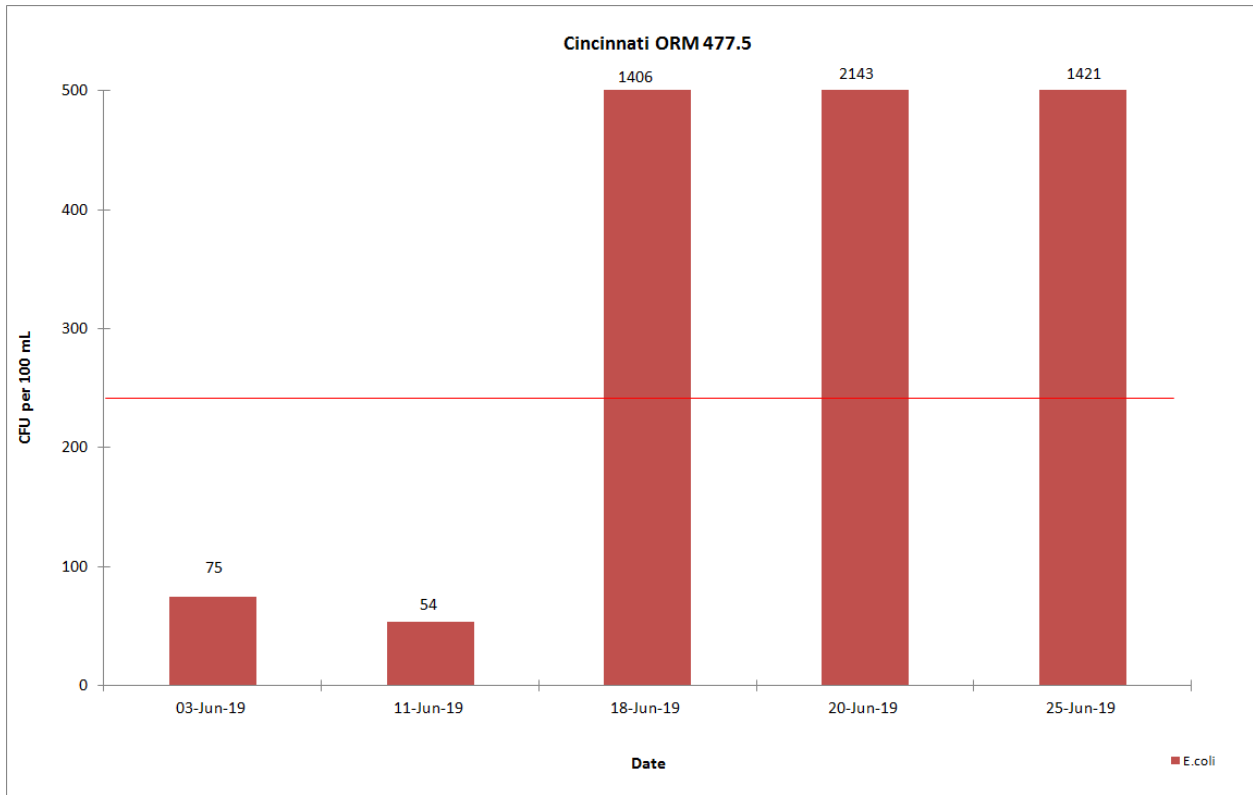
In Huntington, ORM 305.1 and ORM 314.8 both had four individual exceedances for *E.coli*.



## Cincinnati

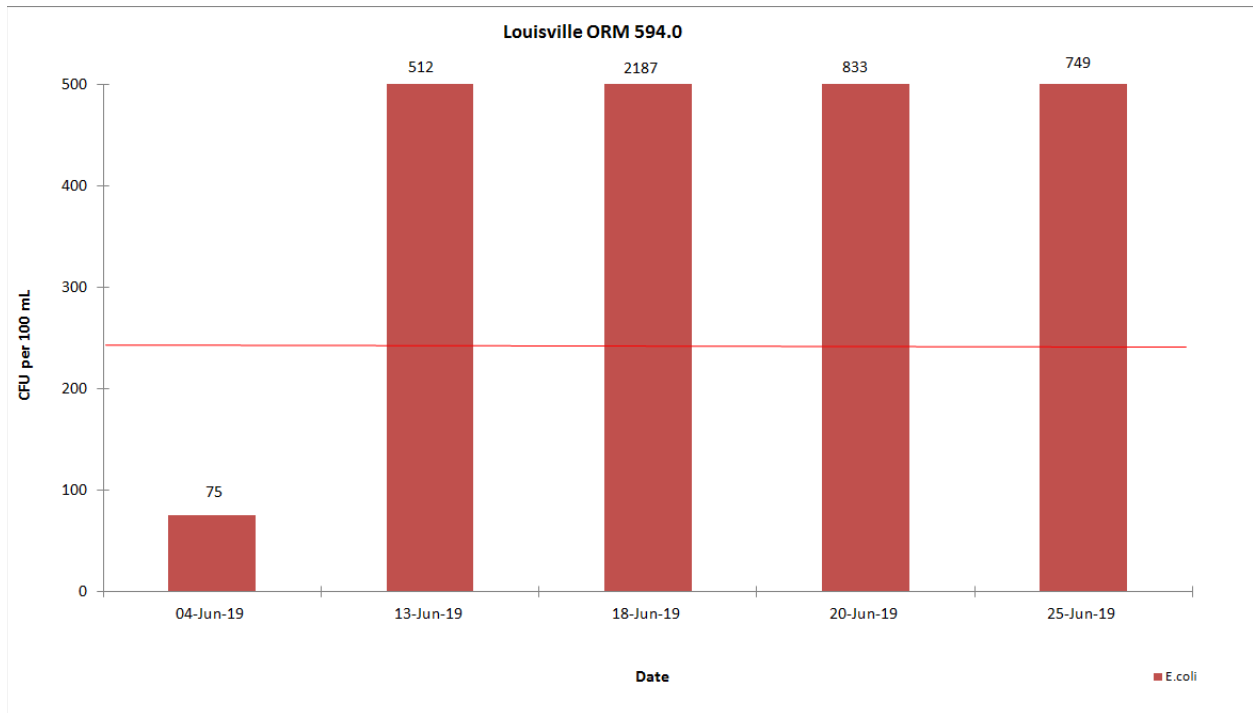
In Cincinnati, ORM 462.6, ORM 470.0 and ORM 477.5 all had three individual exceedances for *E.coli*.

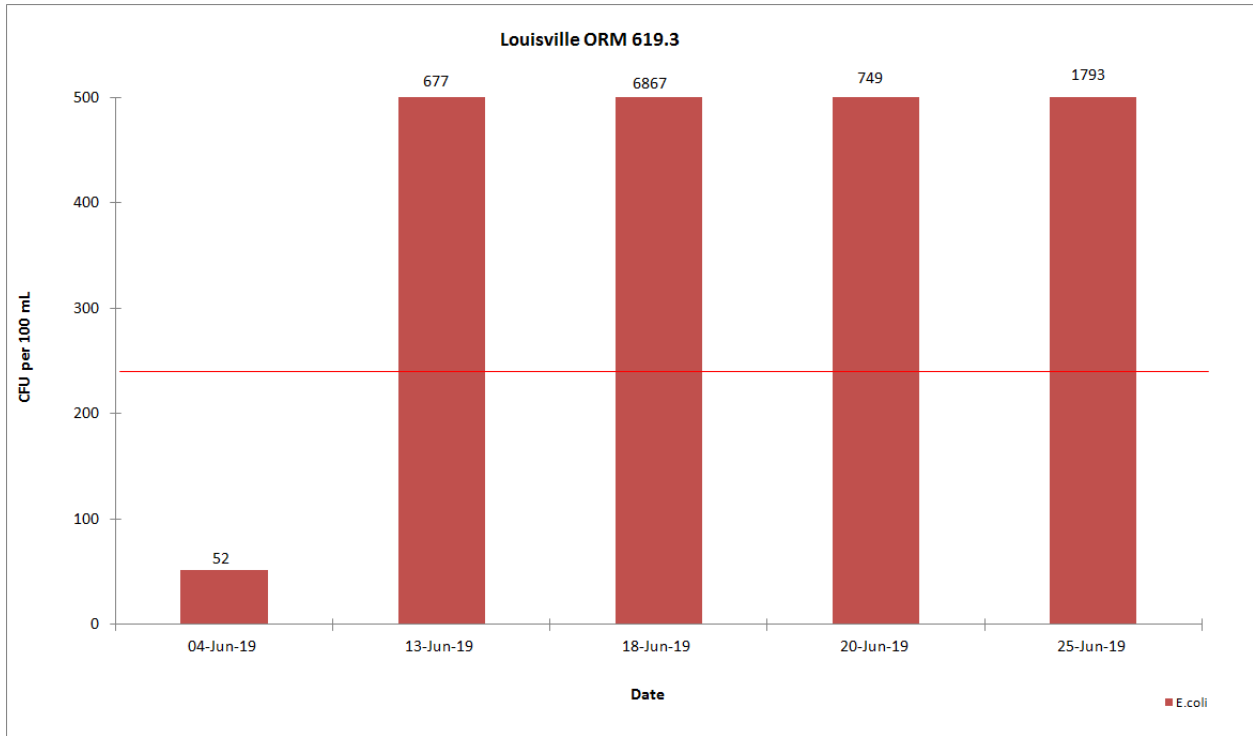




## Louisville

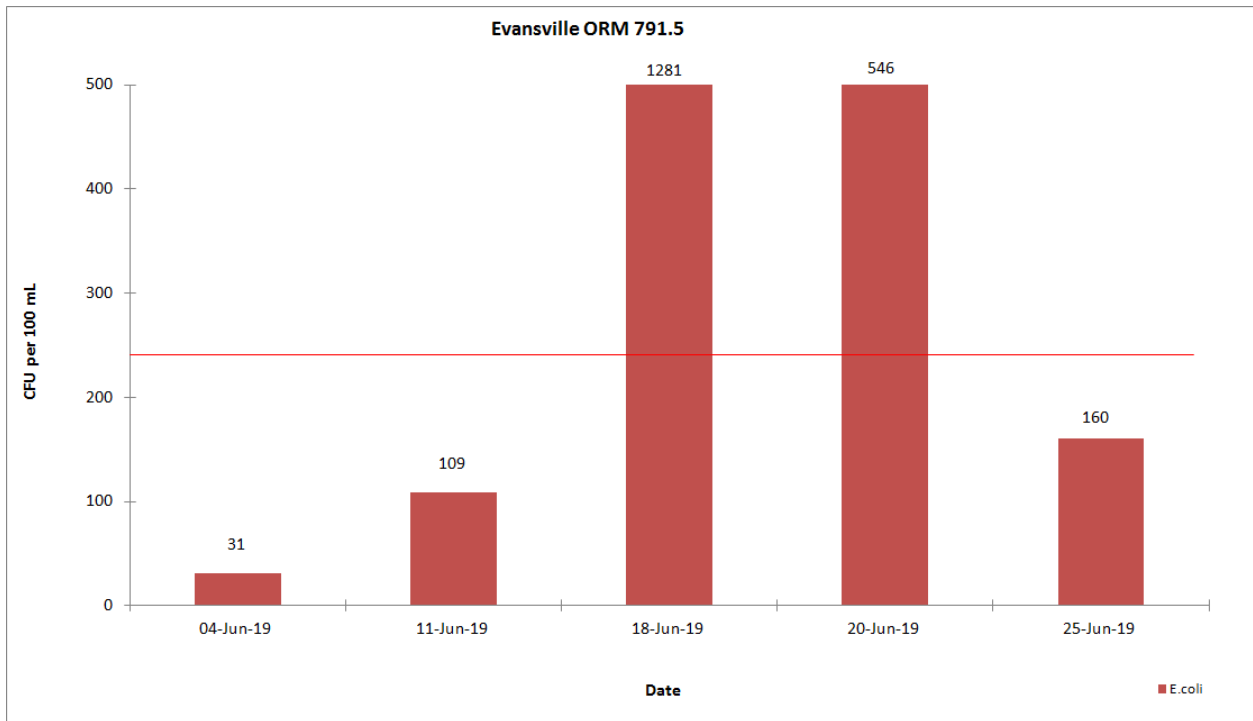
In Louisville, ORM 594.0 and ORM 619.3 both had four individual exceedances for *E.coli*.



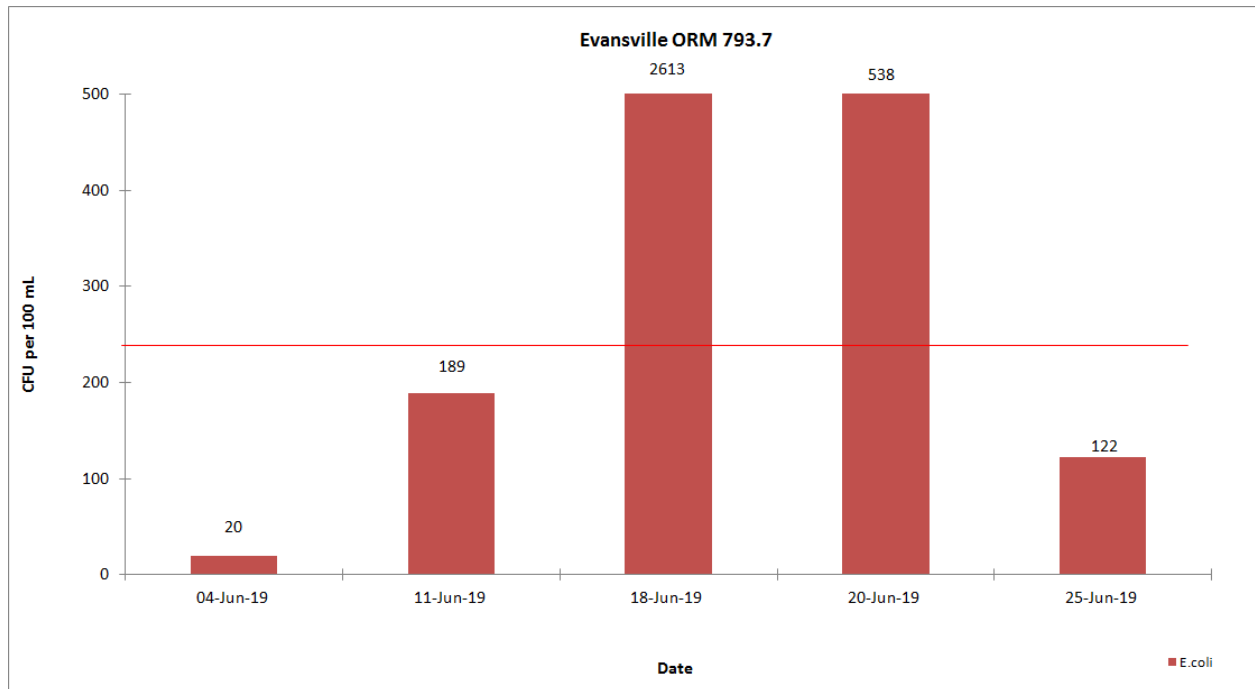


## Evansville

In Evansville, ORM 791.5 and ORM 793.7 both had two 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.

Racine and Kyger had one day that the D.O. concentration fell below 5.0 mg/L. There were no temperature violations during the month of June.

Please click on this link to be directed to the DO/Temperature tables for June 2019:  
<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. Evansville had one criteria violation of the Maximum Contaminant Level (MCL) of 3.0 ug/L set by the Safe Drinking Water Act for finished drinking water.

