



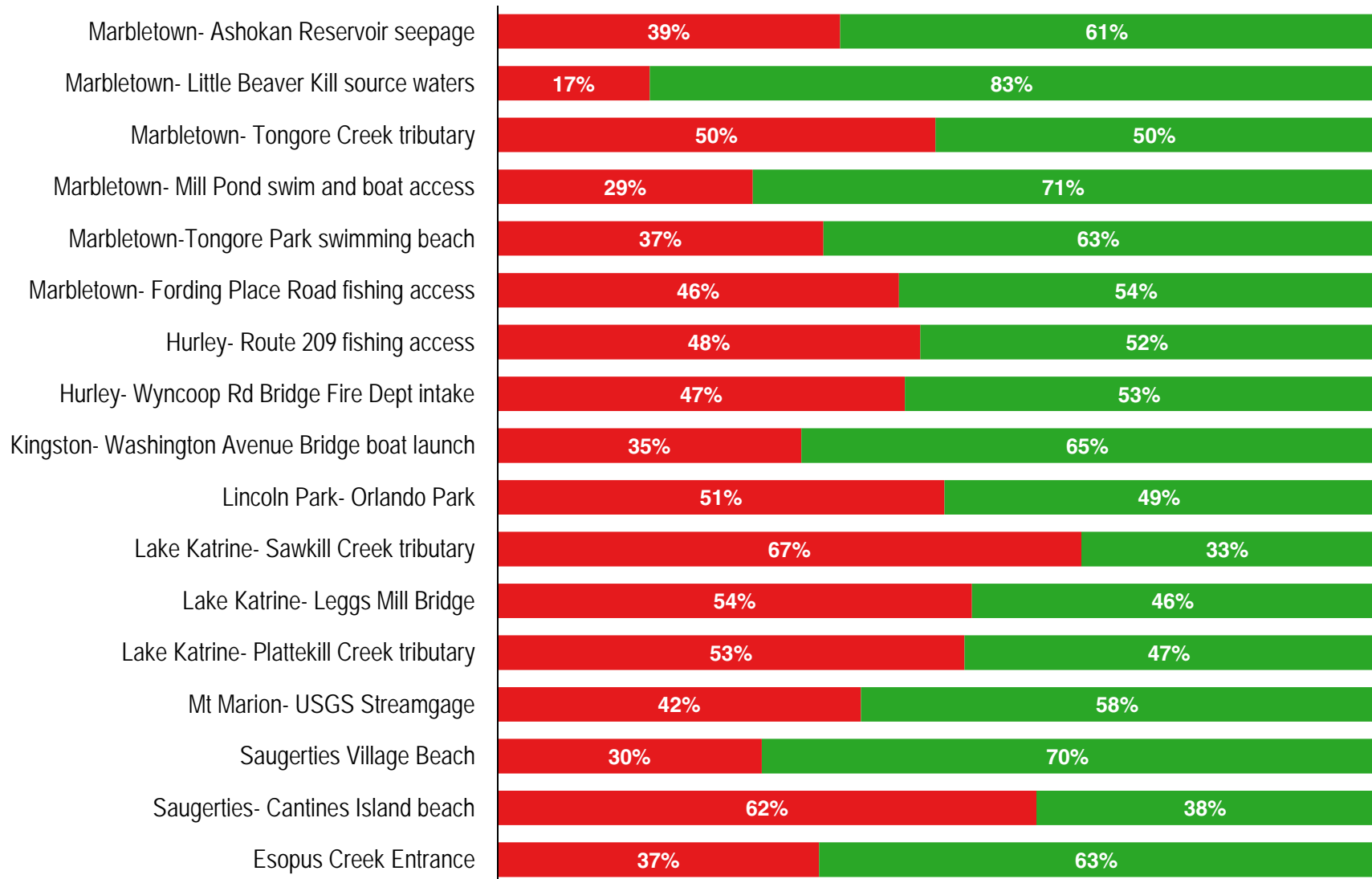
Esopus Creek: % Samples Achieving EPA Safe Swimming Guideline

Samples collected by watershed residents, Ashokan Center staff, and Marbletown CAC members

Samples processed by Riverkeeper

Results are based on 13-53 samples per site, collected from May-October, 2011-2018

EPA's recommended Beach Action Value (BAV) is a guideline for day-to-day beach management



■ % Beach Advisory (>60 cells/100 mL) ■ % Acceptable (0-60 cells/100 mL)



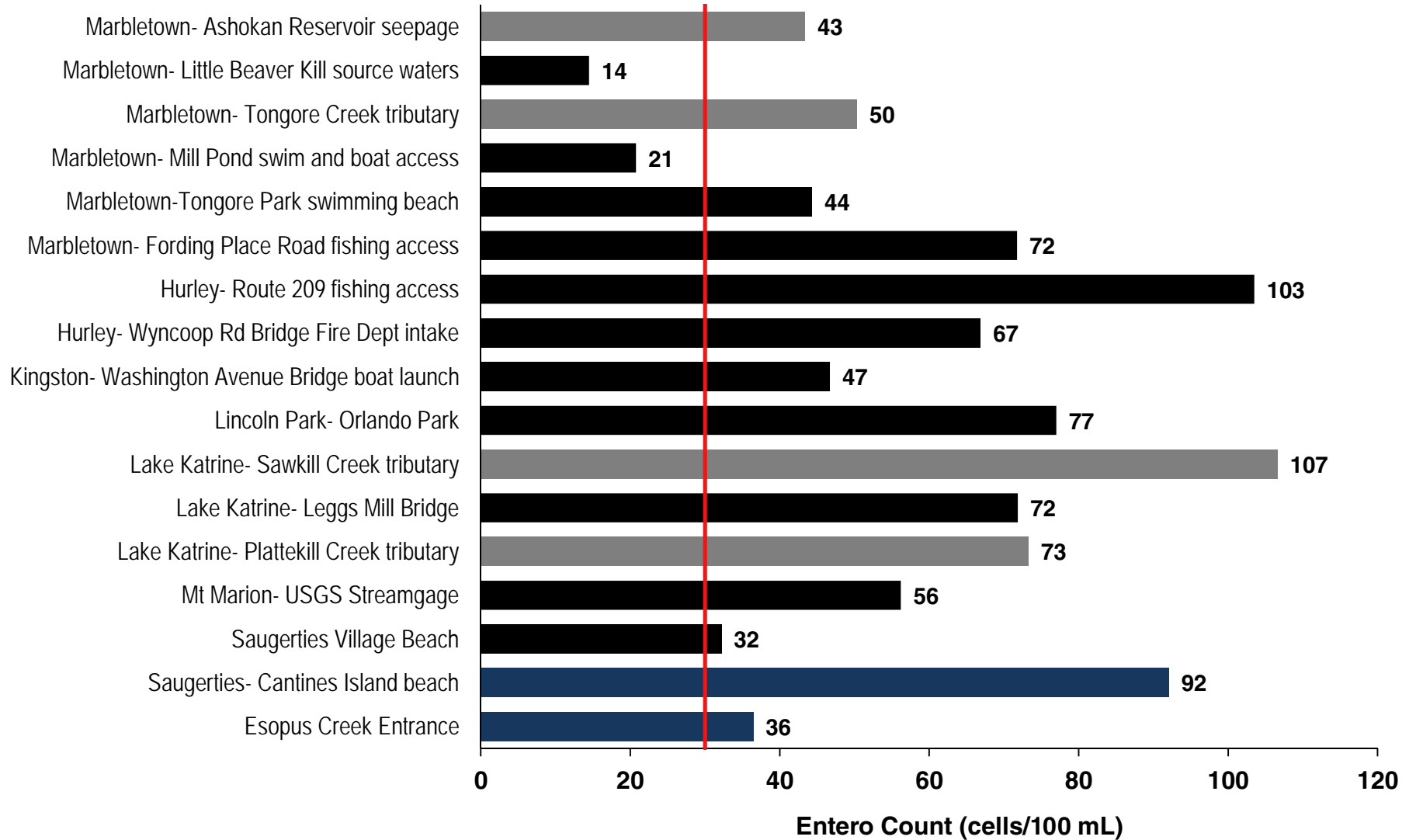
Esopus Creek: Geometric Means of *Enterococcus* Counts

Samples collected by watershed residents Ashokan Center staff, and Marletown CAC members

Samples processed by Riverkeeper

Results are based on 11-27 samples per site, collected from May-October, 2011-2018

The geometric mean (geomean) is a weighted long-term average.



■ Geomean (Gray = Tributary, Blue = Tidal)

— EPA Geomean Criterion (30 cells/100 mL)



Esopus Creek: Geometric Means of *Enterococcus* Counts in Wet & Dry Weather

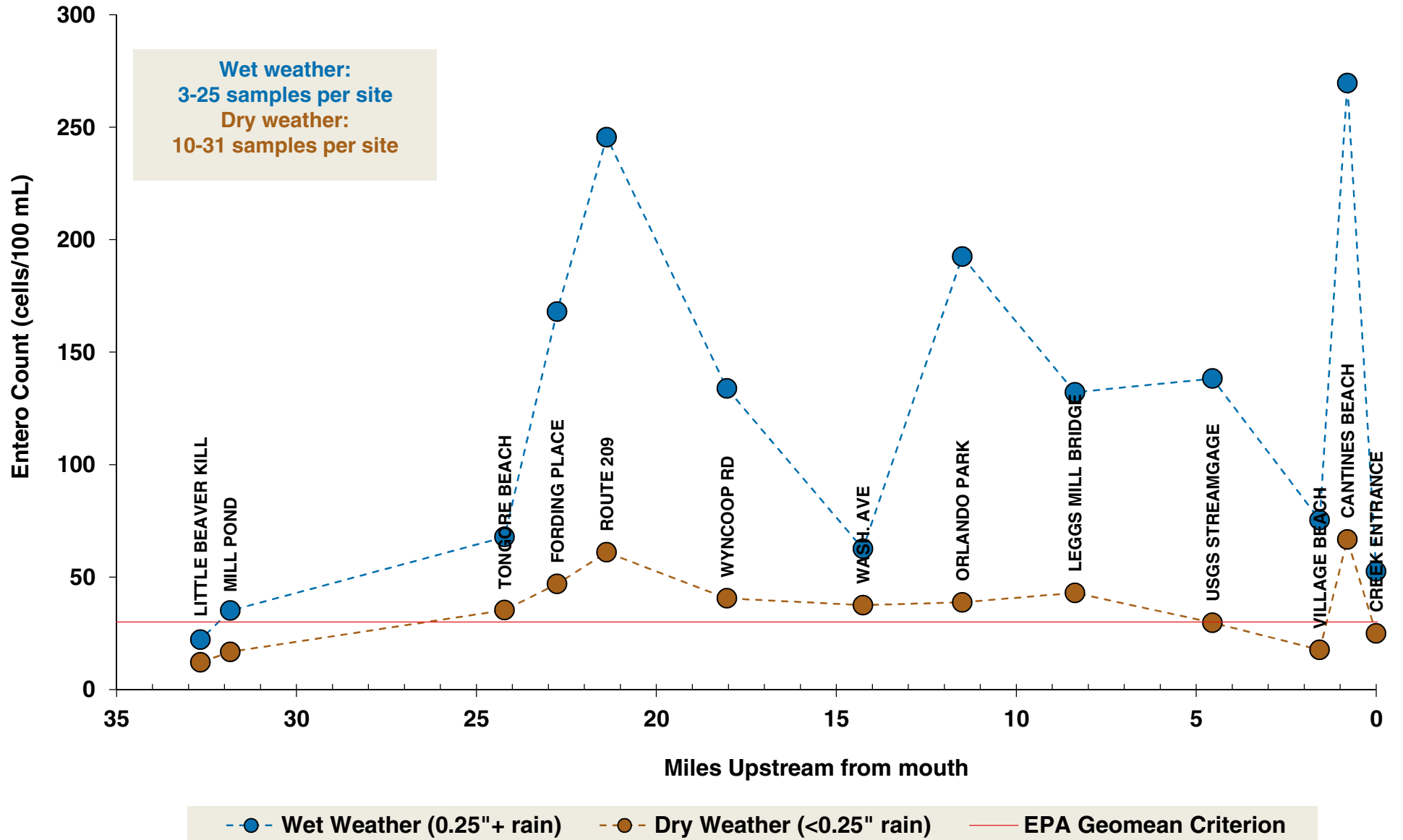
Samples collected by watershed residents, Ashokan Center staff, and Marletown CAC members

Samples processed by Riverkeeper

Results are based on 13-53 samples per site, collected from May-October, 2011-2018

The geometric mean (geomean) is a weighted long-term average

Wet weather is defined as greater than or equal to 0.25" of total rainfall on the day of sampling plus three prior days



Esopus Creek *Enterococcus* Monitoring Results

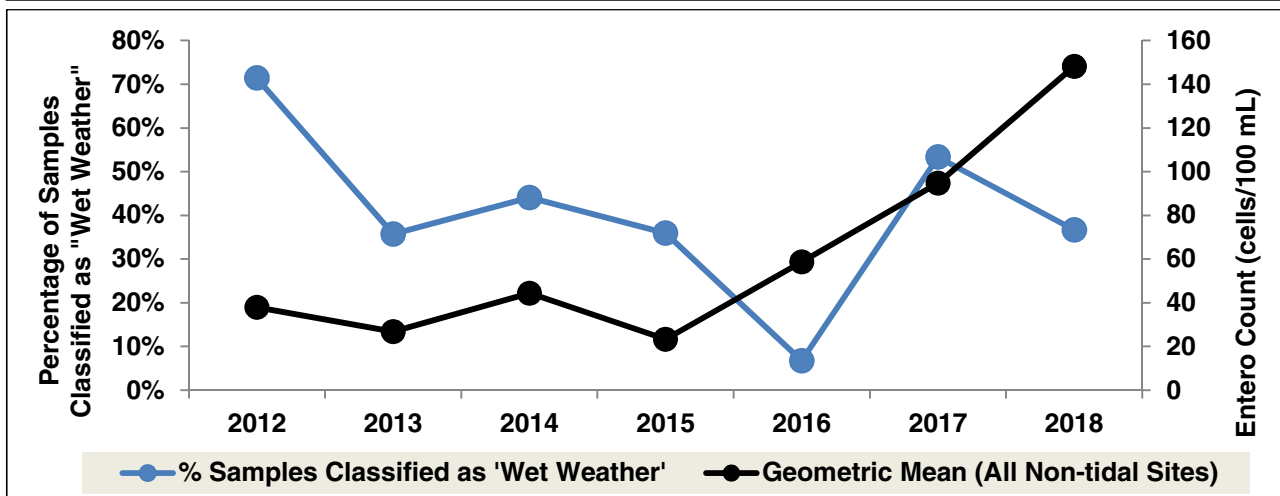
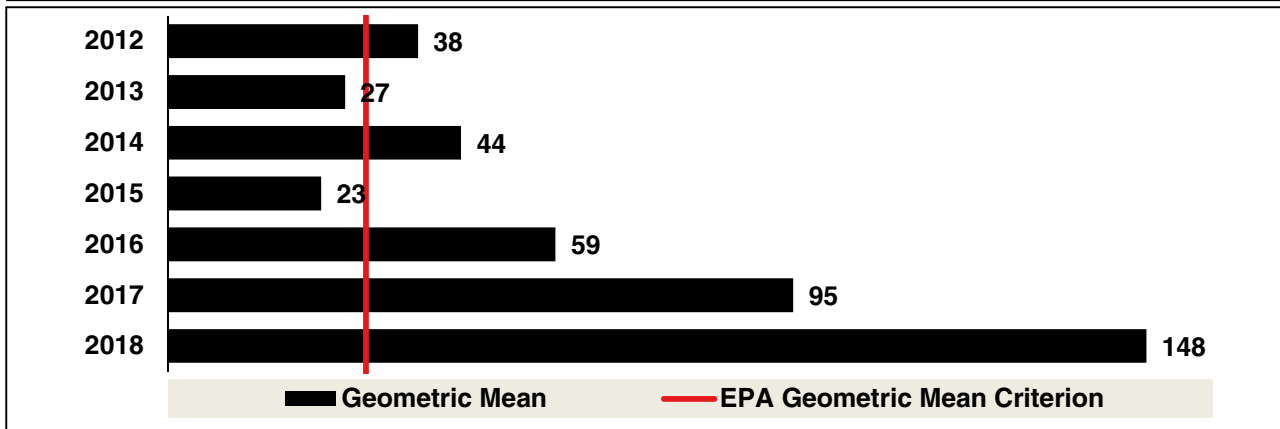
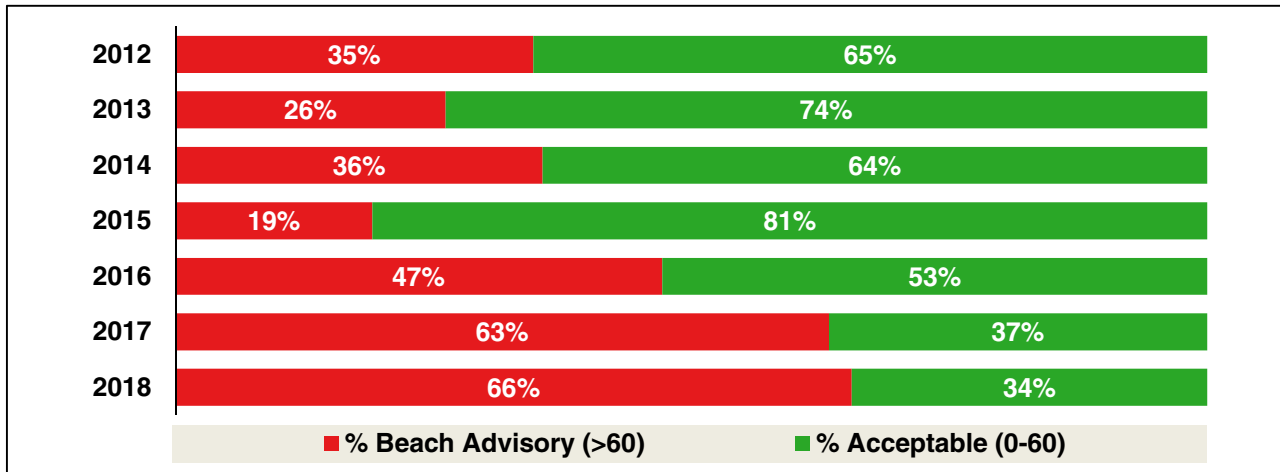
Year-by-Year Comparison, 2012-2018

*Samples collected by watershed residents, Ashokan Center staff, and Marbletown CAC members
 Samples processed by Riverkeeper*

Results are based on 49-90 samples per year, collected from May-October, 2012-2018. Several sampling locations were added in 2015, and others may have changed slightly from year to year

The geometric mean (geomean) is a weighted long-term average

Wet weather is defined as greater than or equal to 0.25" of total rainfall on the day of sampling plus three prior days



Enterococcus Monitoring Results: Hudson River Watershed Snapshot

Enterococcus is an indicator of fecal contamination. Bars show the geometric mean, a weighted average, of all non-tidal samples. Results are from 14-937 samples collected May-October, 2010-2018. Date ranges vary by watershed. Samples were collected and processed by a network of community scientists and labs.

