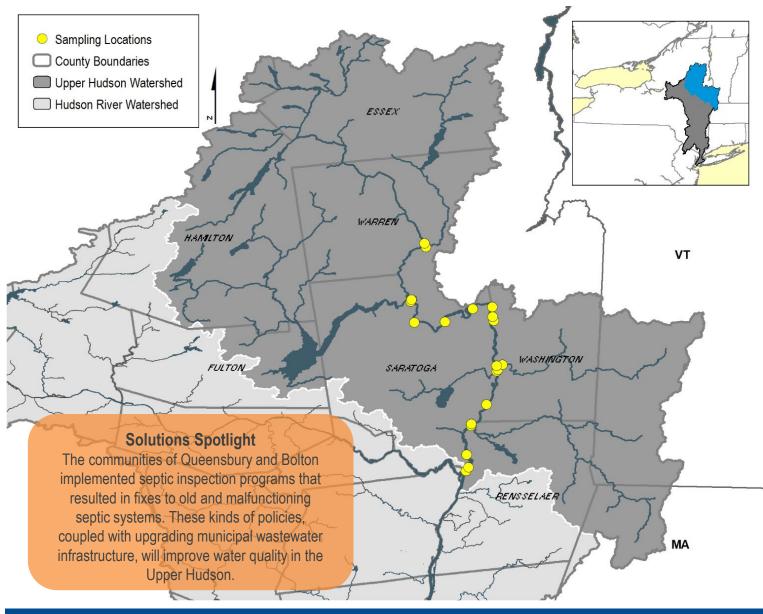
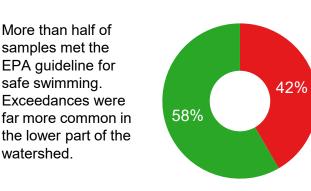
# **UPPER HUDSON RIVER**

## Community Water Quality Monitoring Results

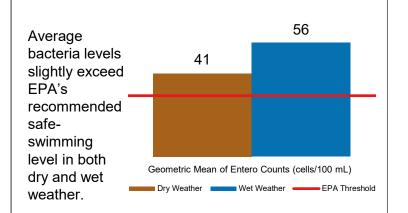
# 2016-2021



#### What portion of our samples were safe for swimming?



#### How does weather affect bacteria levels?



**More:** Explore a watershed map, data from each sampling site, and more at <u>www.riverkeeper.org/water-quality/citizen-data/upper-hudson-river</u>



## **Community Science**

The water quality data presented here are based on an analysis of 720 samples collected by watershed residents and staff of Jarrett Engineers. Samples were collected in June, August & October of 2016, and from May to October in 2017-2020, and processed by Riverkeeper. To get involved, contact Sebastian Pillitteri at spillitteri@riverkeeper.org.

#### Why We Measure Bacteria

Newcomb- Tahawus Road Bridge\*\*

Moreau Lake State Park boat launch Glens Falls- Haviland Cove Beach

Saratoga- Hudson Crossing Park

Schuylerville municipal boat launch

Saratoga informal boat launch\*\* Stillwater- Riverfront Park kayak launch Schaghticoke- Lock 4 State Canal Park

Fort Edward- Bradley Beach kayak launch Fort Edward- Champlain Canal at East Street\*\* Moreau- DEC Roger's Island Pool launch site

Greenwich- Batten Kill at informal access point

Schuylerville- Fish Creek at Schuyler's Canal Park

Schaghticoke- Hoosic River before Hudson confluence Mechanicville municipal canoe and kayak launch\*\*

Johnsburg- Warren County canoe access\*\*

Newcomb- Route 28N Bridge whitewater access point \*\*

Warrensburg- Warren County Fish Hatchery boat launch Warrensburg- Schroon River at Paper Mill Park boat launch

Hadley- Lower Sacandaga River at whitewater recreation area

Lake Luzerne- Hudson above Lower Sacandaga R

Fecal indicator bacteria such as Enterococcus ("Entero") usually do not make us sick. But because they live in the guts of warm-blooded animals, when these bacteria are present in water, pathogens that can make us sick may also be present.

Sources of fecal bacteria may include sewer overflows and failures, inadequate sewage treatment, urban or farm runoff, septic system failures, wildlife and contaminated sediment.

While research continues, the EPA has set thresholds to define if water is safe for swimming based on decades of science relying on measurements of these bacteria. Data are shown in Entero cells per 100 mL.

### About the Upper Hudson River

The Hudson River begins at Lake Tear of the Clouds, on New York's highest peak, Mount Marcy. The "upper" part of the river is the portion above of the Federal Dam at Troy, which forms a barrier to the tides. More than 83,000 people use the Upper Hudson as a drinking water source.

### Signs of Progress

As part of a growing community science program, the Media Sanctuary NATURE Lab Water Justice Fellows are processing samples for the Upper Hudson. This is part of a summer program that explores water justice with local youth in Troy, at the confluence of the Upper and Hudson Rivers.

What portion of samples at each site were acceptable for swimming? EPA threshold: single sample should not exceed 60

How high were bacterial levels? EPA threshold: geometric mean\* should not exceed 30

comb- Tahawus Road Bridge**	25%	7	5%		13.4
idge whitewater access point **	19%	81°	/o		13.2
Warren County canoe access**	19%	81°	/o		18.4
unty Fish Hatchery boat launch	26%	7	4%		15.8
r at Paper Mill Park boat launch	14%	86%			12.1
son above Lower Sacandaga R	43%		57%		50.9
er at whitewater recreation area			65%		33.1
Corinth Beach	23%	77	%		22.8
au Lake State Park boat launch	13%	87%			12.0
ns Falls- Haviland Cove Beach	18%	82%	6		26.9
Moreau informal access point	53%		47%		42.6
d- Bradley Beach kayak launch	58%		42°	6	72.5
namplain Canal at East Street**	20%	80'	%	×	20.1
Roger's Island Pool launch site		%	39	%	70.9
aratoga- Hudson Crossing Park	43%		57%		47.8
ten Kill at informal access point		3%		%	159.4
uylerville municipal boat launch	32%		68%		56.0
Creek at Schuyler's Canal Park		69%		31%	198.4
Saratoga informal boat launch**	30%		70%		55.1
r- Riverfront Park kayak launch	43%		57%		50.8
icoke- Lock 4 State Canal Park	53%		47%		102.0
River before Hudson confluence	83%			17%	201.9
cipal canoe and kayak launch**	62	2%	38	%	97.8
Lighthouse Park kayak launch	41%		59%		56.2
ghticoke municipal boat launch		74%		26%	265.9
Troy- 123rd Street boat launch*	75%			25%	859.7
,					

% of Samples Unacceptable

% of Samples Acceptable

\*Sampling at this site began in 2021. \*\*Site not sampled in 2020.

## **Upper Hudson River Water Quality**

Halfmoon- Lighthouse Park kayak launch Schaghticoke municipal boat launch Troy- 123rd Street boat launch\*

# 2016-2021