

FIBI517-R2

Beerskill

Shaytown Rd

Municipality: Montague

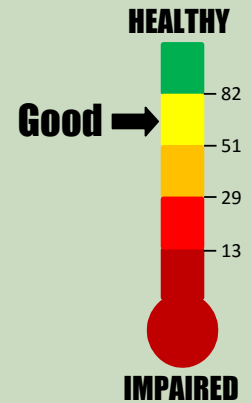
County: Sussex

Drainage Area (sq miles):1.93

Average Width (m): 5.03

Sample Date: 8 /16/2018

Site Type: Sentinel



Metric 1 - Number of intolerant vertebrate species	100.00
Metric 2 - Proportion of vertebrate species as top carnivores	65.79
Metric 3 -Percent tolerant fish	96.12
Metric 4 -Proportion of total richness as native	100.00
Metric 5 -Percent native crayfish	100.00
Metric 6 -Brook trout density	26.40

Air Temperature (°C)	28.5
Water Temperature (°C)	20.49
Dissolved Oxygen (mg/L)	8.53
% Saturation	96
pH	6.61
Conductivity (uS/cm)	37.4
Nitrate/Nitrite (mg/L):	0.0528
Total Kjeldahl (mg/L):	0.329
Total Phosphorus (mg/L):	0.0294

Headwaters IBI Score (0-100): ***81.38***

IBI Rating: ***Good***

High Gradient Habitat Score (0-200): ***185***

Habitat Rating: ***Optimal***

Summary:

FIBI517 is a sentinel site which is sampled every two-three years for Headwaters IBI monitoring to evaluate assemblage changes through time and to better understand natural variability. This site was rated "Excellent" in 2013, "Good" in 2015 and "Good" in 2018. Variation in IBI scores and ratings is largely attributed to the variability in brook trout abundance through time. This site contains a healthy population of sensitive fish and salamanders. Beerskill is located in a highly forested watershed and protected within the Stokes State Forest.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	60
Slimy Sculpin	<i>Cottus cognatus</i>	49
Brook Trout	<i>Salvelinus fontinalis</i>	20
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	16
Green Frog	<i>Lithobates clamitans</i>	8
American Eel	<i>Anguilla rostrata</i>	5
Northern Red Salamander	<i>Pseudotriton ruber ruber</i>	3
Northern Dusky Salamander	<i>Desmognathus fuscus</i>	1
Common Crayfish	<i>Cambarus bartonii bartonii</i>	1