

FIBI525-R1r1 Willoughby Brook

Buffalo Hollow Road

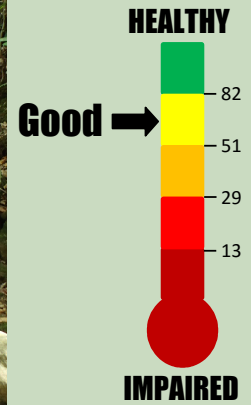
Municipality: Lebanon

County: Hunterdon

Drainage Area (sq miles): 1.07

Sample Date: 9 /26/2017

Site Type: Sentinel



Metric 1 - Number of intolerant vertebrate species	66.67
Metric 2 - Proportion of vertebrate species as top carnivores	75.19
Metric 3 -Percent tolerant fish	100.00
Metric 4 -Proportion of total richness as native	71.43
Metric 5 -Percent native crayfish	0.00
Metric 6 -Brook trout density	22.00

Air Temperature (°C)	22.2
Water Temperature (°C)	17.86
Dissolved Oxygen (mg/L)	8.23
% Saturation	87.7
pH	6.94
Conductivity (uS/cm)	244.8
Nitrate/Nitrite (mg/L):	0.548
Total Kjeldahl (mg/L):	0.131
Total Phosphorus (mg/L):	0.0396

Headwaters IBI Score (0-100): **55.88**

IBI Rating: **Good**

High Gradient Habitat Score (0-200): **163**

Habitat Rating: **Optimal**

Summary: Willoughby Brook was rated "good" in 2013 and 2017.

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Willoughby Brook

Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	70
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	21
Creek Chub	<i>Semotilus atromaculatus</i>	16
Brook Trout	<i>Salvelinus fontinalis</i>	10
Green Frog	<i>Lithobates clamitans</i>	8
Brown Trout	<i>Salmo trutta</i>	2
Bluegill	<i>Lepomis macrochirus</i>	1