

FIBI525-R2

Willoughby Brook

off Buffalo Hollow Road

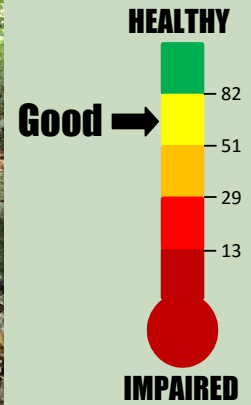
Municipality: Lebanon

County: Hunterdon

Drainage Area (sq miles):1.11

Average Width (m): 3.33

Sample Date: 9 /12/2018



Site Type: Sentinel

Metric 1 - Number of intolerant vertebrate species	66.67
Metric 2 - Proportion of vertebrate species as top carnivores	87.72
Metric 3 -Percent tolerant fish	100.00
Metric 4 -Proportion of total richness as native	85.71
Metric 5 -Percent native crayfish	100.00
Metric 6 -Brook trout density	17.60

Air Temperature (°C)	21.4
Water Temperature (°C)	17.67
Dissolved Oxygen (mg/L)	9.24
% Saturation	96.9
pH	7.18
Conductivity (uS/cm)	235.7
Nitrate/Nitrite (mg/L):	0.984
Total Kjeldahl (mg/L):	0.264
Total Phosphorus (mg/L):	0.0289

Headwaters IBI Score (0-100): ***76.28***

IBI Rating: ***Good***

High Gradient Habitat Score (0-200): ***155***

Habitat Rating: ***Suboptimal***

Summary: Willoughby Brook was rated "Good" in 2013, 2017 and 2018

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Willoughby Brook

Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	113
Creek Chub	<i>Semotilus atromaculatus</i>	35
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	34
Brook Trout	<i>Salvelinus fontinalis</i>	8
Common Crayfish	<i>Cambarus bartonii bartonii</i>	2
Brown Trout	<i>Salmo trutta</i>	2
Pickerel Frog	<i>Lithobates palustris</i>	1