

FIBI525-R1r Willoughby Brook

off Buffalo Hollow Road

Municipality: Lebanon

County: Hunterdon

Drainage Area (sq miles): 1.1

Sample Date: 6/24/2014

Site Type: Fixed



Metric 1 - Number of intolerant vertebrate species	66.67
Metric 2 - Proportion of vertebrate species as top carnivores	100.00
Metric 3 -Percent tolerant fish	100.00
Metric 4 -Proportion of total richness as native	83.33
Metric 5 -Percent native crayfish	100.00
Metric 6 -Brook trout density	100.00

Air Temperature (°C)	18.9
Water Temperature (°C)	16.08
Dissolved Oxygen (mg/L)	8.98
% Saturation	89.2
pH	5.87
Conductivity (uS/cm)	218

Headwaters IBI Score (0-100): ***91.67***

IBI Rating: ***Excellent***

High Gradient Habitat Score (0-200): ***156***

Habitat Rating: ***Suboptimal***

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	83
Brook Trout	<i>Salvelinus fontinalis</i>	46
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	36
Brown Trout	<i>Salmo trutta</i>	17
Creek Chub	<i>Semotilus atromaculatus</i>	8
Common Crayfish	<i>Cambarus bartonii bartonii</i>	4