

FIBI407-R1r

Bear Swamp Brook

Bear Swamp Road

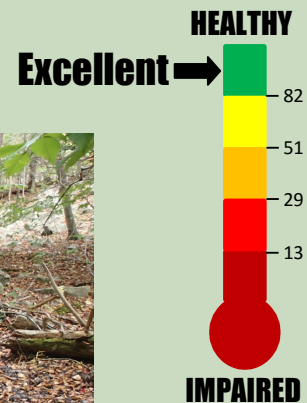
Municipality: Mahwah

County: Bergen

Drainage Area (sq miles): 2.92

Sample Date: 8/23/2017

Site Type: Sentinel



Metric 1 - Number of intolerant vertebrate species	100.00
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	100.00
Metric 5 -Percent native crayfish	100.00
Metric 6 -Brook trout density	12.10

Air Temperature (°C)	21.2
Water Temperature (°C)	20.49
Dissolved Oxygen (mg/L)	8.03
% Saturation	89.9
pH	6.54
Conductivity (uS/cm)	35.5
Nitrate/Nitrite (mg/L):	0.0986
Total Kjeldahl (mg/L):	0.166
Total Phosphorus (mg/L):	0.017

Headwaters IBI Score (0-100): ***83.30***

IBI Rating: ***Excellent***

High Gradient Habitat Score (0-200): ***176***

Habitat Rating: ***Optimal***

Summary:

Bear Swamp Brook improved to a rating of "Excellent" in 2017 from a rating of "Good" in 2014. The number of intolerant vertebrate species increased and no non-native species were collected in 2017.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	96
Creek Chub	<i>Semotilus atromaculatus</i>	35
Green Frog	<i>Lithobates clamitans</i>	23
Brook Trout	<i>Salvelinus fontinalis</i>	22
Northern Red Salamander	<i>Pseudotriton ruber ruber</i>	11
Common Crayfish	<i>Cambarus bartonii bartonii</i>	8
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	8
Bullfrog	<i>Lithobates catesbeianus</i>	1
Eastern Mudminnow	<i>Umbra pygmaea</i>	1
Northern Dusky Salamander	<i>Desmognathus fuscus</i>	1