

FIBI407-R1

Bear Swamp Brook

Bear Swamp Road

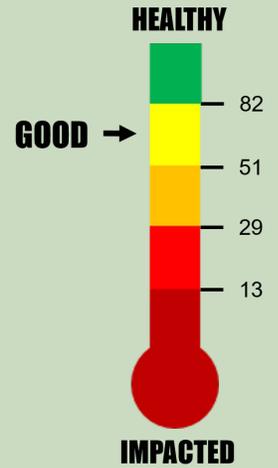
Municipality: Mahwah

County: Bergen

Drainage Area (sq miles): 2.9

Sample Date: 8/28/2014

Site Type: Sentinel



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	95.12
Metric 4 -Proportion of total richness as native	81.82
Metric 5 -Percent native crayfish	83.33
Metric 6 -Brook trout density	27.72

Air Temperature (°C)	23.4
Water Temperature (°C)	18.6
Dissolved Oxygen (mg/L)	7.41
% Saturation	80
pH	4.93
Conductivity (uS/cm)	40

Headwaters IBI Score (0-100): ***75.78***

IBI Rating: ***Good***

High Gradient Habitat Score (0-200): ***177***

Habitat Rating: ***Optimal***

Summary: FIBI407 is a sentinel site which is sampled every three years for Headwaters IBI monitoring to evaluate assemblage changes through time and to better understand natural variability. Bear Swamp Brook was in "good " condition when sampled in 2014, with a healthy brook trout, common crayfish and northern red salamander population.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	67
Brook Trout	<i>Salvelinus fontinalis</i>	42
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	11
Green Frog	<i>Lithobates clamitans</i>	9
Creek Chub	<i>Semotilus atromaculatus</i>	8
Pumpkinseed	<i>Lepomis gibbosus</i>	6
Largemouth Bass	<i>Micropterus salmoides</i>	5
Northern Red Salamander	<i>Pseudotriton ruber ruber</i>	5
Common Crayfish	<i>Cambarus bartonii bartonii</i>	5
Bullfrog	<i>Lithobates catesbeianus</i>	3
Virile Crayfish	<i>Orconectes virilis</i>	1