FIBI438-R1

Primrose Brook Tributary

Jockey Hollow Road

Municipality: Harding

County: Morris

Drainage Area (sq miles): 0.6

Sample Date: 6/3/2015

Site Type: Sentinel, RMN





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	90.00
Metric 5 -Percent native crayfish	100.00
Metric 6 -Brook trout density	100.00

Air Temperature (°C)	17.3
Water Temperature (°C)	12.83
Dissolved Oxygen (mg/L)	10.02
% Saturation	95.6
pН	7.22
Conductivity (uS/cm)	105.3

Headwaters IBI Score (0-100):	96.29
IBI Rating:	Excellent
High Gradient Habitat Score (0-200):	174
Habitat Rating:	Optimal

Summary:

FIBI438 is a site within the United States Environmental Protection Agency's Regional Monitoring Network(RMN) to evaluate changes in air and water temperature as well as changes in the stream's biota at least disturbed sites. Primrose Brook is also a sentinel site which is sampled every three years for Headwaters IBI monitoring. This site contains a very high density of slimy sculpin, as well as several other sensitive fish, crayfish and salamanders. This site is the highest scoring (96.29) site in the HIBI network to date. Primrose Brook is located in a forested area and protected within the Morristown National Historical Park.

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Common Name	Scientific Name	Abundance
Slimy Sculpin	Cottus cognatus	364
Brook Trout	Salvelinus fontinalis	84
Blacknose Dace	Rhinichthys atratulus	51
Northern Two-lined Salamander	Eurycea bislineata	39
Common Crayfish	Cambarus bartonii bartonii	30
Creek Chub	Semotilus atromaculatus	16
Northern Dusky Salamander	Desmognathus fuscus	4
Brown Trout	Salmo trutta	3
Northern Red Salamander	Pseudotriton ruber ruber	2
Pickerel Frog	Lithobates palustris	1