

FIBI516-R2

Beech Brook

Beech Road

Municipality: West Milford

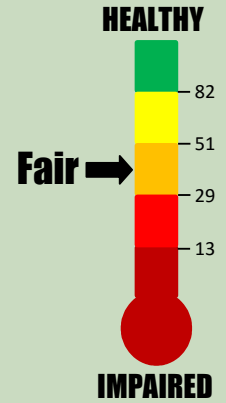
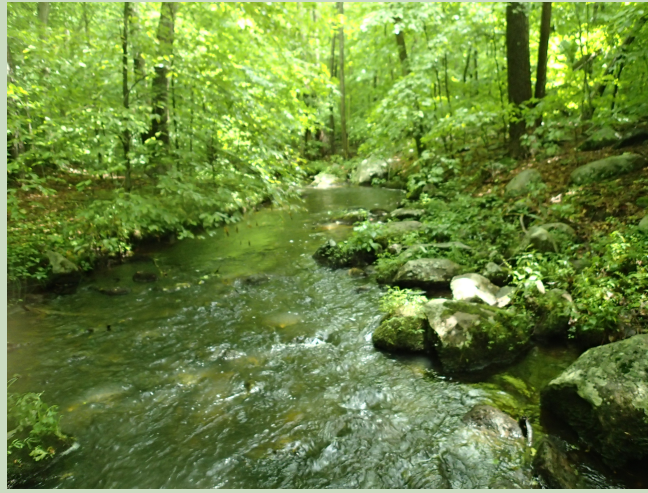
County: Passaic

Drainage Area (sq miles): 1.33

Average Width (m): 4.08

Sample Date: 7 /25/2018

Site Type: Fixed



Metric 1 - Number of intolerant vertebrate species	66.67
Metric 2 - Proportion of vertebrate species as top carnivores	75.19
Metric 3 -Percent tolerant fish	74.36
Metric 4 -Proportion of total richness as native	77.78
Metric 5 -Percent native crayfish	4.17
Metric 6 -Brook trout density	3.30

Air Temperature (°C)	25.1
Water Temperature (°C)	21.94
Dissolved Oxygen (mg/L)	8.15
% Saturation	93.2
pH	6.8
Conductivity (uS/cm)	43.9
Nitrate/Nitrite (mg/L):	0.0244
Total Kjeldahl (mg/L):	0.395
Total Phosphorus (mg/L):	0.0559

Headwaters IBI Score (0-100): ***50.24***

IBI Rating: ***Fair***

High Gradient Habitat Score (0-200): ***171***

Habitat Rating: ***Optimal***

Summary: Beech Brook decreased by only 0.71 in IBI score from its previous sampling in 2013; however, this slight decrease in IBI score dropped the rating into the "Fair" condition for 2018. Fewer brook trout were collected in 2018.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	86
Creek Chub	<i>Semotilus atromaculatus</i>	71
Green Sunfish	<i>Lepomis cyanellus</i>	52
Virile Crayfish	<i>Orconectes virilis</i>	23
Green Frog	<i>Lithobates clamitans</i>	5
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	3
Brook Trout	<i>Salvelinus fontinalis</i>	2
Northern Red Salamander	<i>Pseudotriton ruber ruber</i>	1
Common Crayfish	<i>Cambarus bartonii bartonii</i>	1