

FIBI542-R1

Mossmans Brook

Clinton Road

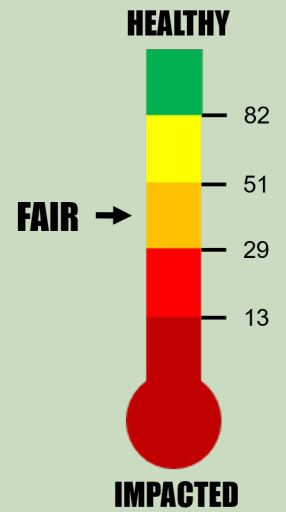
Municipality: West Milford

County: Passaic

Drainage Area (sq miles): 2.1

Sample Date: 6/24/2015

Site Type: RMN



Metric 1 - Number of intolerant vertebrate species	33.33
Metric 2 - Proportion of vertebrate species as top carnivores	23.92
Metric 3 -Percent tolerant fish	92.66
Metric 4 -Proportion of total richness as native	92.31
Metric 5 -Percent native crayfish	16.67
Metric 6 -Brook trout density	0.00

Air Temperature (°C)	21.5
Water Temperature (°C)	18.75
Dissolved Oxygen (mg/L)	8.3
% Saturation	91.1
pH	6.17
Conductivity (uS/cm)	60.4

Headwaters IBI Score (0-100): ***43.15***

IBI Rating: ***Fair***

High Gradient Habitat Score (0-200): ***179***

Habitat Rating: ***Optimal***

Summary: Mossmans Brook is a site within the United States Environmental Protection Agency's Regional Monitoring Network to evaluate changes in air and water temperature as well as changes in the stream's biota at least disturbed sites. The site was rated "fair" in 2015.

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Common Name	Scientific Name	Abundance
Creek Chub	<i>Semotilus atromaculatus</i>	71
Blacknose Dace	<i>Rhinichthys atratulus</i>	50
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	29
White Sucker	<i>Catostomus commersoni</i>	11
Tessellated Darter	<i>Etheostoma olmstedii</i>	11
Fallfish	<i>Semotilus corporalis</i>	7
Virile Crayfish	<i>Orconectes virilis</i>	5
Redbreast Sunfish	<i>Lepomis auritus</i>	3
Green Frog	<i>Lithobates clamitans</i>	3
Eastern Mudminnow	<i>Umbra pygmaea</i>	3
Northern Red Salamander	<i>Pseudotriton ruber ruber</i>	2
Pickerel Frog	<i>Lithobates palustris</i>	1
Common Crayfish	<i>Cambarus bartonii bartonii</i>	1