

FIBI023-R3r

Neshanic River

along Kuhl Road

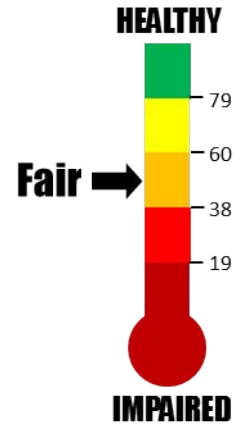
Municipality: Raritan Twp

County: Hunterdon

Drainage Area (sq miles): 23

Sample Date: 06/12/2014

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	35.63
Metric 2-%Cold Non-tolerant Coolwater	40.39
Metric 3-%Generalist Richness	56.43
Metric 4-Tolerance Index	44.73
Metric 5-%Lithophilic Richness	36.22
Metric 6-%Cyprinidae	46.38
Metric 7-%Dominant 3 Taxa	70.52
Metric 8-%Benthic Insectivore Richness	52.98

Field Chemistry

Air Temp (°C)	19.6
Water Temperature (°C)	17.56
Dissolved Oxygen (mg/L)	8.96
% Saturation	94.1
pH	7.52
Conductivity (µS/cm)	362.2

Northern Fish IBI Score (0-100): 47.91

IBI Rating: Fair

High Gradient Habitat Score (0-200): 114

Habitat Rating: Suboptimal

Summary: The Neshanic River is a highly productive stream with over 1,100 fish collected from the 150-m reach in 2014. High nutrient levels (P= 0.26 mg/L) are the likely cause of the high fish productivity. Oriental weatherfish, an invasive species, have increased in abundance since being discovered in the stream in 2011.

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Neshanic River

Common Name	Scientific Name	Abundance
White Sucker	<i>Catostomus commersoni</i>	338
Spotfin Shiner	<i>Cyprinella spiloptera</i>	94
Common Shiner	<i>Luxilus cornutus</i>	93
Green Sunfish	<i>Lepomis cyanellus</i>	88
Blacknose Dace	<i>Rhinichthys atratulus</i>	85
Longnose Dace	<i>Rhinichthys cataractae</i>	78
Redbreast Sunfish	<i>Lepomis auritus</i>	58
Tessellated Darter	<i>Etheostoma olmstedii</i>	56
Creek Chub	<i>Semotilus atromaculatus</i>	43
American Eel	<i>Anguilla rostrata</i>	38
Oriental Weatherfish	<i>Misgurnus anguillicaudatus</i>	37
Banded Killifish	<i>Fundulus diaphanus</i>	27
Margined Madtom	<i>Noturus insignis</i>	26
Bluegill	<i>Lepomis macrochirus</i>	17
Rock Bass	<i>Ambloplites rupestris</i>	9
Pumpkinseed	<i>Lepomis gibbosus</i>	6
Yellow Bullhead	<i>Ameiurus natalis</i>	4
Fathead Minnow	<i>Pimephales promelas</i>	3
Western Mosquitofish	<i>Gambusia affinis</i>	1
Largemouth Bass	<i>Micropterus salmoides</i>	1