

FIBI212-R3

Crosswicks Creek

Arneystown Road

Municipality: Upper Freehold Twp

County: Monmouth

Drainage Area (sq miles): 45

Sample Date: 07/23/2015

Site Type: Fixed



IBI Metrics

Metric 1 - Native Sp.	52.26
Metric 2 - Benthic Sp	50.50
Metric 3 - Intolerant Sp.	19.88
Metric 4 - %Tolerant Sp.	69.66
Metric 5-%Insectivore Sp.	54.66
Metric 6 -%Piscivorous Sp.	4.57
Metric 7 - Abundance-tolerance	65.89
Metric 8-% DELTs	89.30

Field Chemistry

Air Temp (°C)	23.7
Water Temperature (°C)	22.39
Dissolved Oxygen (mg/L)	6.74
% Saturation	77.8
pH	7.03
Conductivity (µS/cm)	223

Southern Fish IBI Score (0-100): 50.84

IBI Rating: Fair

Low Gradient Habitat Score (0-200): 138

Habitat Rating: Suboptimal

Summary: The IBI score and rating at Crosswicks Creek dropped substantially from sampling in 2008. Several native species including, American brook lamprey, common shiner, pumpkinseed, and chain pickerel were collected in the 2008 sampling event, but were not collected in 2015, which resulted in a lower score and rating.

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Common Name	Scientific Name	Abundance
Tessellated Darter	<i>Etheostoma olmstedii</i>	89
American Eel	<i>Anguilla rostrata</i>	70
Fallfish	<i>Semotilus corporalis</i>	57
Redbreast Sunfish	<i>Lepomis auritus</i>	27
Spottail Shiner	<i>Notropis hudsonius</i>	10
White Sucker	<i>Catostomus commersoni</i>	7
Satinfin Shiner	<i>Cyprinella analostana</i>	6
Largemouth Bass	<i>Micropterus salmoides</i>	3
Sea Lamprey	<i>Petromyzon marinus</i>	1
Eastern Mudminnow	<i>Umbra pygmaea</i>	1
Creek Chub	<i>Semotilus atromaculatus</i>	1
Channel Catfish	<i>Ictalurus punctatus</i>	1
Bluegill	<i>Lepomis macrochirus</i>	1
Black Crappie	<i>Pomoxis nigromaculatus</i>	1