

FIBI040-R4

Papakating Creek WB

CR 565

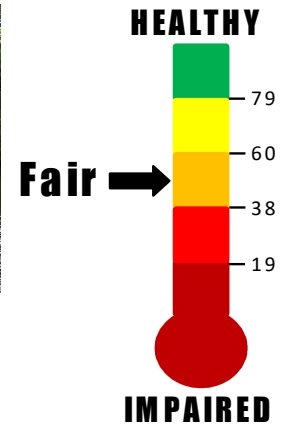
Municipality: Wantage Twp

County: Sussex

Drainage Area (sq miles): 11

Sample Date: 8/14/2017

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	29.51
Metric 2-%Cold Non-tolerant Coolwater	78.46
Metric 3-%Generalist Richness	56.43
Metric 4-Tolerance Index	72.96
Metric 5-%Lithophilic Richness	40.25
Metric 6-%Cyprinidae	100.00
Metric 7-%Dominant 3 Taxa	31.24
Metric 8-%Benthic Insectivore Richness	44.15

Field Chemistry

Air Temp (°C)	22.4
Water Temperature (°C)	18.95
Dissolved Oxygen (mg/L)	9.3
% Saturation	100.8
pH	7.79
Conductivity (µS/cm)	348
Total Kjeldahl (mg/L)	0.55
Total Phosphorus (mg/L)	0.08
Nitrate/Nitrite (mg/L)	0.61

Northern Fish IBI Score (0-100): 56.62

IBI Rating: Fair

High Gradient Habitat Score (0-200): 137

Habitat Rating: Suboptimal

Summary: Ratings and scores for FIBI040 have been relatively consistent over the years. Despite these results, this is the first wadeable site in the state in which we have collected nonnative bluntnose minnows. This member of the minnow family is considered a generalist feeder and is tolerant of human disturbance.

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Common Name	Scientific Name	Abundance
Longnose Dace	<i>Rhinichthys cataractae</i>	351
Bluntnose Minnow	<i>Pimephales notatus</i>	115
Common Shiner	<i>Luxilus cornutus</i>	63
Creek Chub	<i>Semotilus atromaculatus</i>	47
Tessellated Darter	<i>Etheostoma olmstedii</i>	46
Blacknose Dace	<i>Rhinichthys atratulus</i>	42
Cutlips Minnow	<i>Exoglossum maxillingua</i>	20
White Sucker	<i>Catostomus commersoni</i>	18
Largemouth Bass	<i>Micropterus salmoides</i>	6
Bluegill	<i>Lepomis macrochirus</i>	5
Redfin Pickerel	<i>Esox americanus americanus</i>	4
Spottail Shiner	<i>Notropis hudsonius</i>	4
Eastern Mudminnow	<i>Umbra pygmaea</i>	3
Satinfin Shiner	<i>Cyprinella analostana</i>	1
Green Sunfish	<i>Lepomis cyanellus</i>	1
Pumpkinseed	<i>Lepomis gibbosus</i>	1
Eastern Silvery Minnow	<i>Hybognathus regius</i>	1
Redbreast Sunfish	<i>Lepomis auritus</i>	1