

NJS11-134-R3

Beaver Run

Pond School Road

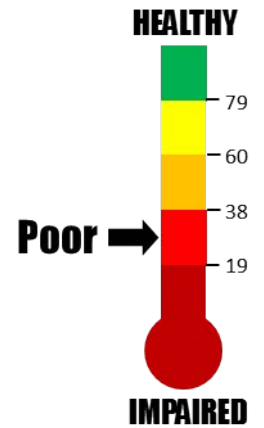
Municipality: Wantage Twp

County: Sussex

Drainage Area (sq miles): 5.8

Sample Date: 07/19/2013

Site Type: Probabilistic



IBI Metrics

| | |
|--|-------|
| Metric 1-%Rheophilic Richness | 0.00 |
| Metric 2-%Cold Non-tolerant Coolwater | 11.60 |
| Metric 3-%Generalist Richness | 26.79 |
| Metric 4-Tolerance Index | 35.51 |
| Metric 5-%Lithophilic Richness | 8.52 |
| Metric 6-%Cyprinidae | 0.00 |
| Metric 7-%Dominant 3 Taxa | 36.68 |
| Metric 8-%Benthic Insectivore Richness | 31.16 |

Field Chemistry

| | |
|-------------------------|-------|
| Air Temp (°C) | 38 |
| Water Temperature (°C) | 24.82 |
| Dissolved Oxygen (mg/L) | 8.09 |
| % Saturation | 98.9 |
| pH | 7.75 |
| Conductivity (µS/cm) | 575.3 |

Northern Fish IBI Score (0-100): 18.78

IBI Rating: Poor

High Gradient Habitat Score (0-200): 93

Habitat Rating: Marginal

Summary: This section of Beaver Run flows through farmland in which livestock have direct access to the stream. The "marginal" habitat rating includes impacts to the natural substrate, lack of riffle habitat, and very little suitable bank vegetation to provide overhead cover. These habitat impairments have impacted several attributes of the the fish community including the absence of those fishes which prefer flowing water (rheophilic sp.), few clean substrate spawners (lithophilic sp.), and low overall abundance of minnow (Cyprinidae) species.

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Beaver Run

| Common Name | Scientific Name | Abundance |
|----------------------|-----------------------------------|-----------|
| White Sucker | <i>Catostomus commersoni</i> | 219 |
| Tessellated Darter | <i>Etheostoma olmstedii</i> | 133 |
| Banded Killifish | <i>Fundulus diaphanus</i> | 109 |
| Redbreast Sunfish | <i>Lepomis auritus</i> | 34 |
| Creek Chub | <i>Semotilus atromaculatus</i> | 32 |
| Eastern Mudminnow | <i>Umbra pygmaea</i> | 23 |
| Creek Chubsucker | <i>Erimyzon oblongus</i> | 23 |
| Bluegill | <i>Lepomis macrochirus</i> | 19 |
| Satinfin Shiner | <i>Cyprinella analostana</i> | 16 |
| Pumpkinseed | <i>Lepomis gibbosus</i> | 15 |
| Golden Shiner | <i>Notemigonus crysoleucas</i> | 15 |
| Largemouth Bass | <i>Micropterus salmoides</i> | 14 |
| Redfin Pickerel | <i>Esox americanus americanus</i> | 9 |
| Green Sunfish | <i>Lepomis cyanellus</i> | 3 |
| Brown Bullhead | <i>Ameiurus nebulosus</i> | 1 |
| Yellow Bullhead | <i>Ameiurus natalis</i> | 1 |
| Western Mosquitofish | <i>Gambusia affinis</i> | 1 |