

NJS11-133-R3

Beaver Brook

off Lake Just It Road

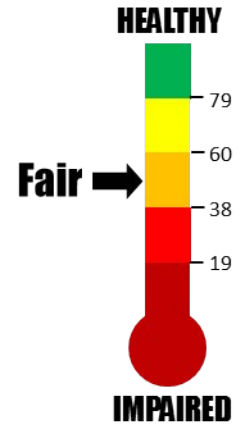
Municipality: Hope Twp

County: Warren

Drainage Area (sq miles): 29

Sample Date: 07/31/2014

Site Type: Probabilistic



IBI Metrics

| | |
|--|-------|
| Metric 1-%Rheophilic Richness | 42.88 |
| Metric 2-%Cold Non-tolerant Coolwater | 57.82 |
| Metric 3-%Generalist Richness | 90.02 |
| Metric 4-Tolerance Index | 64.06 |
| Metric 5-%Lithophilic Richness | 56.34 |
| Metric 6-%Cyprinidae | 36.98 |
| Metric 7-%Dominant 3 Taxa | 56.22 |
| Metric 8-%Benthic Insectivore Richness | 58.87 |

Field Chemistry

| | |
|-------------------------|-------|
| Air Temp (°C) | 22.9 |
| Water Temperature (°C) | 18.58 |
| Dissolved Oxygen (mg/L) | 7.92 |
| % Saturation | 84.7 |
| pH | 7.9 |
| Conductivity (µS/cm) | 504.4 |

Northern Fish IBI Score (0-100): 57.90

IBI Rating: Fair

High Gradient Habitat Score (0-200): 153

Habitat Rating: Suboptimal

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Beaver Brook

| Common Name | Scientific Name | Abundance |
|--------------------|-----------------------------------|-----------|
| American Eel | <i>Anguilla rostrata</i> | 155 |
| Tessellated Darter | <i>Etheostoma olmstedii</i> | 112 |
| Blacknose Dace | <i>Rhinichthys atratulus</i> | 69 |
| Cutlips Minnow | <i>Exoglossum maxillingua</i> | 33 |
| Redbreast Sunfish | <i>Lepomis auritus</i> | 27 |
| Margined Madtom | <i>Noturus insignis</i> | 26 |
| Longnose Dace | <i>Rhinichthys cataractae</i> | 24 |
| White Sucker | <i>Catostomus commersoni</i> | 22 |
| Redfin Pickerel | <i>Esox americanus americanus</i> | 18 |
| Pumpkinseed | <i>Lepomis gibbosus</i> | 11 |
| Common Shiner | <i>Luxilus cornutus</i> | 7 |
| Sea Lamprey | <i>Petromyzon marinus</i> | 7 |
| Rock Bass | <i>Ambloplites rupestris</i> | 5 |
| Bluegill | <i>Lepomis macrochirus</i> | 5 |
| Creek Chub | <i>Semotilus atromaculatus</i> | 4 |
| Largemouth Bass | <i>Micropterus salmoides</i> | 2 |
| Swallowtail Shiner | <i>Notropis procne</i> | 1 |
| Chain Pickerel | <i>Esox niger</i> | 1 |