

FIBI101a-R4

NB Rockaway Creek

Oldwick Rd

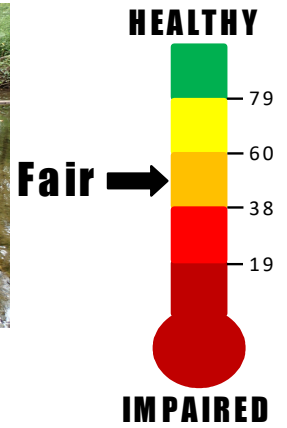
Municipality: TEWKSBURY TWP

County: Hunterdon

Drainage Area (sq miles): 18

Sample Date: 8 /14/2019

Site Type: Fixed



IBI Metrics

| | |
|--|-------|
| Metric 1-%Rheophilic Richness | 38.97 |
| Metric 2-%Cold Non-tolerant Coolwater | 47.13 |
| Metric 3-%Generalist Richness | 86.07 |
| Metric 4-Tolerance Index | 57.99 |
| Metric 5-%Lithophilic Richness | 51.14 |
| Metric 6-%Cyprinidae | 10.72 |
| Metric 7-%Dominant 3 Taxa | 78.20 |
| Metric 8-%Benthic Insectivore Richness | 46.75 |

Field Chemistry

| | |
|-------------------------|-------|
| Air Temp (°C) | 24 |
| Water Temperature (°C) | 19.73 |
| Dissolved Oxygen (mg/L) | 9.0 |
| % Saturation | 98.2 |
| pH | 7.57 |
| Conductivity (µS/cm) | 223.2 |
| Total Kjeldahl (mg/L) | 0.13 |
| Total Phosphorus (mg/L) | 0.03 |
| Nitrate/Nitrite (mg/L) | 1.69 |

Northern Fish IBI Score (0-100): 52.12

IBI Rating: Fair

High Gradient Habitat Score (0-200): 153

Habitat Rating: Suboptimal

Summary: Overall fish abundance was relatively low, as most species were represented by just a few individuals. Except for a small riffle and one deep pool near the start most of the reach consisted of slow moving run habitat which lacked adequate fish cover.

FIBI101a-R4

NB Rockaway Creek

| Common Name | Scientific Name | Abundance |
|--------------------|-------------------------------|------------------|
| Tessellated Darter | <i>Etheostoma olmstedii</i> | 27 |
| American Eel | <i>Anguilla rostrata</i> | 20 |
| Redbreast Sunfish | <i>Lepomis auritus</i> | 18 |
| Pumpkinseed | <i>Lepomis gibbosus</i> | 17 |
| White Sucker | <i>Catostomus commersonii</i> | 12 |
| Common Shiner | <i>Luxilus cornutus</i> | 11 |
| Sea Lamprey | <i>Petromyzon marinus</i> | 10 |
| Bluegill | <i>Lepomis macrochirus</i> | 10 |
| Rock Bass | <i>Ambloplites rupestris</i> | 5 |
| Shield Darter | <i>Percina peltata</i> | 4 |
| Largemouth Bass | <i>Micropterus salmoides</i> | 4 |
| Fallfish | <i>Semotilus corporalis</i> | 4 |
| Green Sunfish | <i>Lepomis cyanellus</i> | 3 |
| Margined Madtom | <i>Noturus insignis</i> | 2 |
| Spotfin Shiner | <i>Cyprinella spiloptera</i> | 2 |
| Smallmouth Bass | <i>Micropterus dolomieu</i> | 2 |
| Blacknose Dace | <i>Rhinichthys atratulus</i> | 1 |