

FIBI221-R3

Game Branch

Pennsville Auburn Road

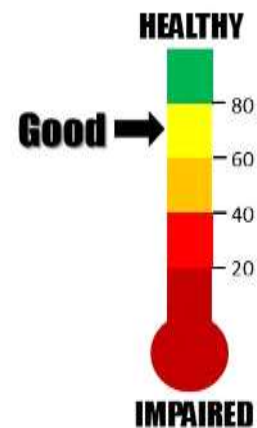
Municipality: Carneys Point Twp

County: Salem

Drainage Area (sq miles): 3.6

Sample Date: 06/15/2015

Site Type: Fixed



IBI Metrics

| | |
|--------------------------------|--------|
| Metric 1 - Native Sp. | 59.25 |
| Metric 2 - Benthic Sp | 40.15 |
| Metric 3 - Intolerant Sp. | 62.26 |
| Metric 4 - %Tolerant Sp. | 74.88 |
| Metric 5-%Insectivore Sp. | 52.09 |
| Metric 6 -%Piscivorous Sp. | 100.00 |
| Metric 7 - Abundance-tolerance | 76.25 |
| Metric 8-% DELTs | 90.13 |

Field Chemistry

| | |
|-------------------------|-------|
| Air Temp (°C) | 30 |
| Water Temperature (°C) | 20.8 |
| Dissolved Oxygen (mg/L) | 6.31 |
| % Saturation | 70.4 |
| pH | 6.31 |
| Conductivity (µS/cm) | 274.6 |

Southern Fish IBI Score (0-100): 69.38

IBI Rating: Good

Low Gradient Habitat Score (0-200): 152

Habitat Rating: Suboptimal

Summary: Game Branch was originally sampled in 2008 and despite a "good" rating in 2015, the score declined over this period. Banded sunfish abundance has declined and tadpole madtom were not collected in this last round of sampling. The habitat is indicative of a healthy stream, but lacks habitat complexity, as most of the stream is run habitat with fewer pools and riffles. Also, in 2008 native sunfish species outnumbered nonnatives like bluegill, but this trend was reversed in 2015.

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| Common Name | Scientific Name | Abundance |
|--------------------|-----------------------------------|------------------|
| Redfin Pickerel | <i>Esox americanus americanus</i> | 115 |
| Bluegill | <i>Lepomis macrochirus</i> | 56 |
| Pumpkinseed | <i>Lepomis gibbosus</i> | 48 |
| Eastern Mudminnow | <i>Umbra pygmaea</i> | 41 |
| American Eel | <i>Anguilla rostrata</i> | 14 |
| Largemouth Bass | <i>Micropterus salmoides</i> | 14 |
| Pirate Perch | <i>Aphredoderus sayanus</i> | 5 |
| Golden Shiner | <i>Notemigonus crysoleucas</i> | 3 |
| Creek Chubsucker | <i>Erimyzon oblongus</i> | 1 |
| Banded Sunfish | <i>Enneacanthus obesus</i> | 1 |