

# FIBI125-R4

## Cruser Brook

Van Horne Road

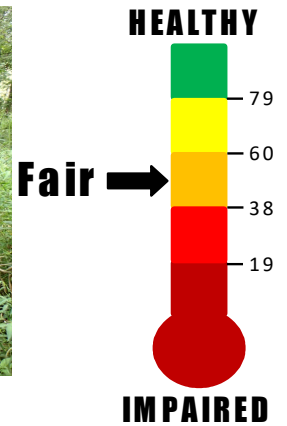
Municipality: MONTGOMERY TWP

County: Somerset

Drainage Area (sq miles): 5

Sample Date: 9 / 5 / 2019

Site Type: Fixed



### IBI Metrics

Metric 1-%Rheophilic Richness	14.81
Metric 2-%Cold Non-tolerant Coolwater	43.43
Metric 3-%Generalist Richness	76.58
Metric 4-Tolerance Index	55.70
Metric 5-%Lithophilic Richness	43.47
Metric 6-%Cyprinidae	13.03
Metric 7-%Dominant 3 Taxa	50.04
Metric 8-%Benthic Insectivore Richness	39.74

### Field Chemistry

Air Temp (°C)	22.9
Water Temperature (°C)	19.71
Dissolved Oxygen (mg/L)	6.7
% Saturation	72.1
pH	7.3
Conductivity (µS/cm)	355.4
Total Kjeldahl (mg/L)	0.32
Total Phosphorus (mg/L)	0.04
Nitrate/Nitrite (mg/L)	2.45

***Northern Fish IBI Score (0-100): 42.10***

***IBI Rating: Fair***

***High Gradient Habitat Score (0-200): 121***

***Habitat Rating: Suboptimal***

**Summary:** FIBI125 is one of the few sites in the state in which comely and bridle shiners have been collected. Overall cyprinidae species richness was very high (9), but overall abundance of these minnow species was low. Nitrate/nitrite levels at Cruser Brook were the highest of all the IBI sites sampled in 2019.

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## **Cruser Brook**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Tessellated Darter	<i>Etheostoma olmstedii</i>	283
White Sucker	<i>Catostomus commersonii</i>	124
Common Shiner	<i>Luxilus cornutus</i>	69
Green Sunfish	<i>Lepomis cyanellus</i>	67
Satinfin Shiner	<i>Cyprinella analostana</i>	42
Pumpkinseed	<i>Lepomis gibbosus</i>	39
Spottail Shiner	<i>Notropis hudsonius</i>	29
Longnose Dace	<i>Rhinichthys cataractae</i>	24
Blacknose Dace	<i>Rhinichthys atratulus</i>	22
American Eel	<i>Anguilla rostrata</i>	20
Creek Chub	<i>Semotilus atromaculatus</i>	18
Redfin Pickerel	<i>Esox americanus americanus</i>	12
Bridle Shiner	<i>Notropis bifrenatus</i>	10
Comely Shiner	<i>Notropis amoenus</i>	7
Swallowtail Shiner	<i>Notropis procne</i>	7
Banded Killifish	<i>Fundulus diaphanus</i>	5
Largemouth Bass	<i>Micropterus salmoides</i>	3
Redbreast Sunfish	<i>Lepomis auritus</i>	2
Creek Chubsucker	<i>Erimyzon oblongus</i>	1
Bluegill	<i>Lepomis macrochirus</i>	1