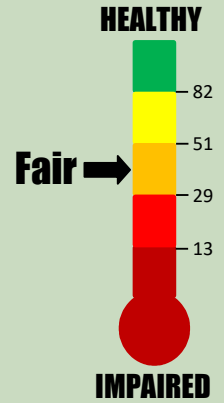


FIBI536a-R1

Simonson Brook



Leiv Eriksson Ave
 Municipality: Franklin Twp
 County: Somerset
 Drainage Area (sq miles): 1.89
 Average Width (m): 5.95
 Sample Date: 7 /12/2019
 Site Type: Fixed

Metric 1 - Number of intolerant vertebrate species	0.00
Metric 2 - Proportion of vertebrate species as top carnivores	47.85
Metric 3 -Percent tolerant fish	85.27
Metric 4 -Proportion of total richness as native	85.71
Metric 5 -Percent native crayfish	77.27
Metric 6 -Brook trout density	0.00

Air Temperature (°C)	25.1
Water Temperature (°C)	22.04
Dissolved Oxygen (mg/L)	8.58
% Saturation	97.8
pH	6.52
Conductivity (uS/cm)	152.3
Nitrate/Nitrite (mg/L):	0.677
Total Kjeldahl (mg/L):	0.392
Total Phosphorus (mg/L):	0.117

<i>Headwaters IBI Score (0-100):</i>	<i>49.35</i>
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<i>IBI Rating:</i>	<i>Fair</i>
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<i>High Gradient Habitat Score (0-200):</i>	<i>142</i>
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<i>Habitat Rating:</i>	<i>Suboptimal</i>
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Summary: Simonson Brook was rated "good" in 2014 and declined slightly to "fair" in 2019. Increases in the amount of tolerant fish and non-native species sampled resulted in the rating decline.

FIBI536a-R1

Simonson Brook

Common Name	Scientific Name	Abundance
Tessellated Darter	<i>Etheostoma olmstedii</i>	58
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	23
Creek Chub	<i>Semotilus atromaculatus</i>	18
Blacknose Dace	<i>Rhinichthys atratulus</i>	17
Spinycheek Crayfish	<i>Faxonius limosus</i>	16
American Eel	<i>Anguilla rostrata</i>	8
White Sucker	<i>Catostomus commersonii</i>	7
Red Swamp Crayfish	<i>Procambarus clarkii</i>	5
Redfin Pickerel	<i>Esox americanus americanus</i>	3
Bullfrog	<i>Lithobates catesbeianus</i>	1
Creek Chubsucker	<i>Erimyzon oblongus</i>	1
Green Sunfish	<i>Lepomis cyanellus</i>	1
Common Crayfish	<i>Cambarus bartonii bartonii</i>	1
Green Frog	<i>Lithobates clamitans</i>	1