

FIBI502-R1r Brass Castle Creek Tributary

Brass Castle Harmony Road

Municipality: Washington

County: Warren

Drainage Area (sq miles): 0.9

Sample Date: 6 /23/2016

Site Type: Sentinel



Metric 1 - Number of intolerant vertebrate species	66.67
Metric 2 - Proportion of vertebrate species as top carnivores	65.79
Metric 3 -Percent tolerant fish	100.00
Metric 4 -Proportion of total richness as native	100.00
Metric 5 -Percent native crayfish	100.00
Metric 6 -Brook trout density	100.00

Air Temperature (°C)	19.5
Water Temperature (°C)	15.8
Dissolved Oxygen (mg/L)	9.29
% Saturation	96.4
pH	6.84
Conductivity (uS/cm)	172.5

Headwaters IBI Score (0-100): 88.74

IBI Rating: Excellent

High Gradient Habitat Score (0-200): 170

Habitat Rating: Optimal

Summary: FIBI502 is a sentinel site which is sampled every three years for Headwaters IBI monitoring to evaluate assemblage changes through time and to better understand natural variability. This site contains an abundance of brook trout, as well as several other sensitive crayfish and salamanders. This site decreased in score slightly from its previous sampling in 2013 but remains in excellent condition.

FIBI502-R1r

Brass Castle Creek Tributary

Common Name	Scientific Name	Abundance
Brook Trout	<i>Salvelinus fontinalis</i>	170
Blacknose Dace	<i>Rhinichthys atratulus</i>	133
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	62
Common Crayfish	<i>Cambarus bartonii bartonii</i>	7
Northern Dusky Salamander	<i>Desmognathus fuscus</i>	1