

FIBI520-R2

Havenmeyer Brook

off Halifax Road

Municipality: Mahwah

County: Bergen

Drainage Area (sq miles):1.13

Average Width (m): 5.61

Sample Date: 7 /24/2018

Site Type: Sentinel



Metric 1 - Number of intolerant vertebrate species	66.67
Metric 2 - Proportion of vertebrate species as top carnivores	100.00
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	72.61

Air Temperature (°C)	25.3
Water Temperature (°C)	20.47
Dissolved Oxygen (mg/L)	8.41
% Saturation	92.9
pH	6.83
Conductivity (uS/cm)	51.9
Nitrate/Nitrite (mg/L):	0.0704
Total Kjeldahl (mg/L):	0.0972
Total Phosphorus (mg/L):	0.0258

<i>Headwaters IBI Score (0-100):</i>	<i>89.88</i>
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<i>IBI Rating:</i>	<i>Excellent</i>
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<i>High Gradient Habitat Score (0-200):</i>	<i>167</i>
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<i>Habitat Rating:</i>	<i>Optimal</i>
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Summary: FIBI520 is a sentinel site which is sampled every two-three years for Headwaters IBI monitoring to evaluate assemblage changes through time and to better understand natural variability. Havenmeyer Brook was in "excellent" condition in 2013, 2016, and 2018. This site continues to have a healthy brook trout, common crayfish and northern red salamander population. This site is secluded in a highly forested watershed within the Ramapo Valley County Reservation.

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Havenmeyer Brook

Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	132
Brook Trout	<i>Salvelinus fontinalis</i>	66
Common Crayfish	<i>Cambarus bartonii bartonii</i>	7
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	4
Pickereel Frog	<i>Lithobates palustris</i>	2
Northern Red Salamander	<i>Pseudotriton ruber ruber</i>	2
Bullfrog	<i>Lithobates catesbeianus</i>	2
Green Frog	<i>Lithobates clamitans</i>	2