

FIBI520-R1

Havenmeyer Brook

off Halifax Road

Municipality: Mahwah

County: Bergen

Drainage Area (sq miles): 1

Sample Date: 7/2/2013

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	81.41

Air Temperature (°C)	22.4
Water Temperature (°C)	18.35
Dissolved Oxygen (mg/L)	8.55
% Saturation	89.5
pH	5.04
Conductivity (uS/cm)	42

Headwaters IBI Score (0-100): ***91.35***

IBI Rating: ***Excellent***

High Gradient Habitat Score (0-200): ***178***

Habitat Rating: ***Optimal***

Summary:

FIBI520 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. Havenmeyer Brook was in "excellent" condition when sampled in 2013, with 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.

FIBI520-R1

Havenmeyer Brook

Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	81
Brook Trout	<i>Salvelinus fontinalis</i>	74
Common Crayfish	<i>Cambarus bartonii bartonii</i>	32
Bullfrog	<i>Lithobates catesbeianus</i>	6
Northern Red Salamander	<i>Pseudotriton ruber ruber</i>	5
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	2
Green Frog	<i>Lithobates clamitans</i>	1
American Toad	<i>Anaxyrus americanus</i>	1