

# Cathance River Fish Study

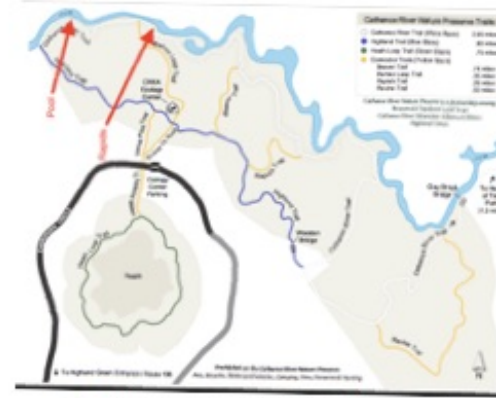
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**Purpose:** Determine the types and sizes of fish in two different habitats of the Cathance River.

**Hypothesis:** More minnows will be found in the rapids and bigger fish will be found in the pools. Minnows will be bass, trout, shiners, sunfish, and perch. The bigger fish in the pool will be sunfish, bass, and perch.



Fallfish minnow caught in the rapids



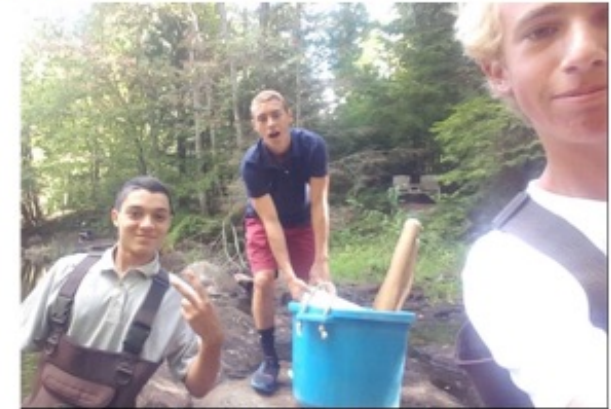
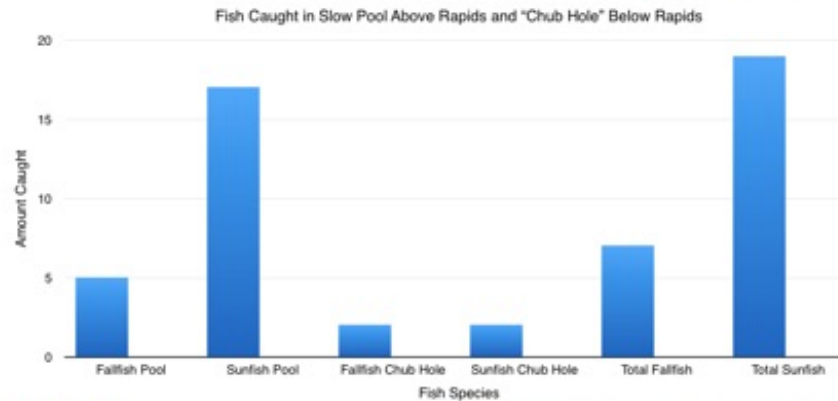
CREA map showing locations of fish study

**Procedure:**

1. Travel to rapids below Barnes Leap at N 43° 57' 31.1" West 69° 56' 59.2" and measure abiotic factors (pH, dissolved oxygen, water temperature and water speed)
2. Use nets to catch minnows in the rapids and use a fishing pole to catch fish in "Chub Hole" (Pool below rapids). Record any fish caught.
3. Travel to "Slow pool" above Barnes Leap at N 43° 57' 32.5" W 69° 69' 14.2" and measure abiotic factors.
4. Fish with fishing pole and record the fish caught.



Fallfish caught in the pool above Barnes Leap



Left to right: Hunter, Max, and Hayden

Summary Data Table

Location	Range of Speed over 7 weeks	Average Speed Over Seven Weeks	Type of Fish Caught	Total Caught	Average Length(cm)	Average Mass in Grams
Slow Pool	.1-9 cm per second	0.5 cm per second	Fallfish	5	20.8 cm.	65.6 grams
			Red Breasted Sunfish	17	13.83 cm	49.4 grams
			<b>Total Fish</b>	<b>22</b>	<b>15.57 cm</b>	<b>53.45 grams</b>
Fast Rapids	6.6-200 cm per second	50.1 cm per second	Fallfish	4	5.125 cm	No Data
			Red Breasted Sunfish	0	N/A	N/A
			<b>Total Fish</b>	<b>4</b>	<b>5.125 cm</b>	<b>No Data</b>



Sunfish caught in the pool above Barnes Leap

Special thanks to Mr. Evans and CREA

**Conclusion:** The hypothesis made was both correct and incorrect in various ways. The hypothesis stated that there would be bass, trout, sunfish, shiners, and perch. There were sunfish in the river, as is shown by the 19 that were caught, but there were no trout, bass, shiners or perch found. Also 11 fallfish were caught which wasn't predicted. It was correct to assume, as stated by the hypothesis, that the bigger fish would be in the pool and smaller fish would be in the rapids. The average length of fish caught in the rapids was 5.125 centimeters whereas in the pool the average fish length was 15.57 centimeters.