

Fish Sampling at Cazenovia Lake: D.O.T. Parking Lot and Town Boat Launch



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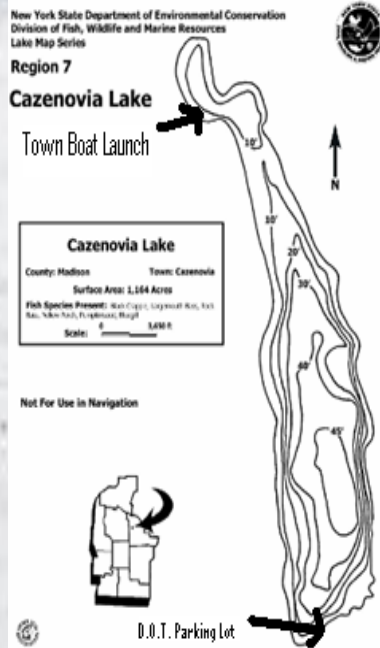
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FYS: Life In and On the Lake (Fall 2006)
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Introduction

- Cazenovia Lake is a shallow lake in Madison County, NY. The lake has a few publicly accessible locations.
- The town boat launch is located on the north end of the lake off of North Lake Road.
- The D.O.T. parking lot is located on the south end of the lake on Route 20 near Route 92.
- At both of these locations we wanted to see what species of fish there were and determine relationships between the lengths and weights of each of them.



Methods

- At the town boat launch and the D.O.T. parking lot we used identical seining techniques. We ran two large seines (25 ft and 50 ft) parallel to each other off the shore about 10 meters apart.
- Then we took the far end of the shorter seine and curled it in towards the larger one. Then we curled the larger one around the back of the shorter seine, bringing them in simultaneously towards the shore.
- We brought the smaller of the two in first by dragging the top and bottom of the seine at the same time and checking for fish then bringing the other larger one in behind and checking it for fish. Once the fish were collected into separate buckets they were weighed and measured.

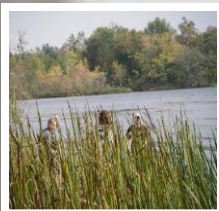


Figure 1. Number of each species at each location

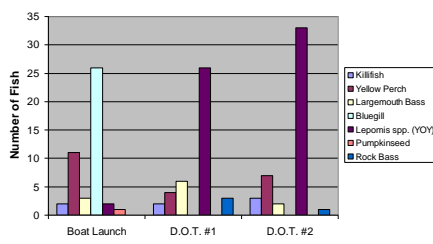


Figure 2. Length Distribution

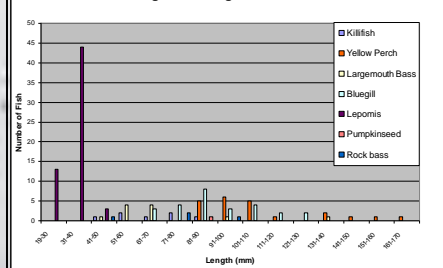
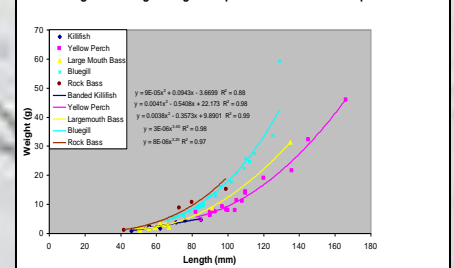


Figure 3. Length-Weight comparison in five of the six species



Results and Discussion

- The results showed that there were six species sampled all together. They were Killifish, Yellow Perch, Largemouth Bass, Bluegill, Pumpkinseed, and Rock Bass (Figure 1).
- Three of the six species found were found at all three of the seining locations. These were Banded Killifish, Largemouth Bass, and Yellow Perch (Figure 1).
- There were many YOY (*Lepomis* spp.) found at the D.O.T. parking lot and only two found at the Town boat launch (Figure 1). At the parking lot there was about 80% aquatic plant cover and at the boat launch there is only about 15% plant cover showing that there could be a direct relationship between the *Lepomis* and plant growth.
- The length distribution showed that some species displayed a narrow range in lengths (*Lepomis* spp. YOY). Others showed a medium range (Killifish), and the Yellow Perch and Largemouth Bass displayed a wide range in lengths (Figure 2).
- The length-weight distribution displays that different growth forms of fish can affect the length-weight relationship of that species. An example of this is the Bluegill compared to the Yellow Perch. At a length of 100 mm the Bluegill is almost double the weight of the Yellow Perch (Figure 3).