

## NEBRASKA LAKE MANAGEMENT

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RE: May 24, 2005 Lake Survey

I apologize for not getting this information out to you quicker, but it's been a very busy spring season with limited office days. Enclosed is a water temperature profile (figure 1) and dissolved oxygen profile (figure 2) for Lake Arrowhead taken on May 24, 2005. Regarding water quality, things look great! At the time of the survey the lake had water clarity of 5.1 feet. Some algae growth was present, but it was not severe.

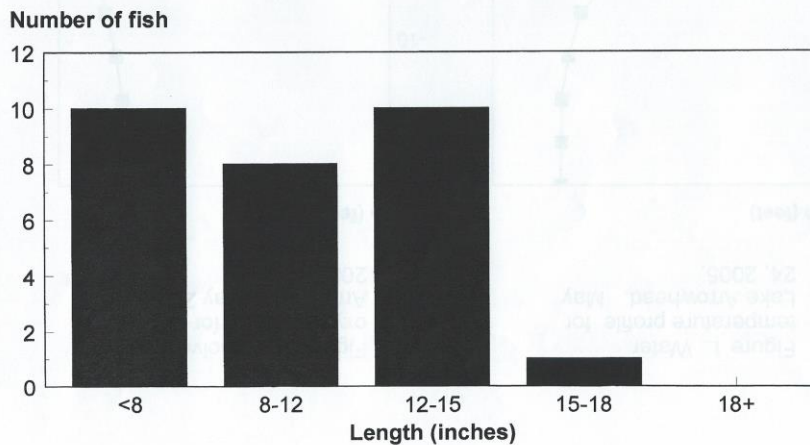
Regarding the fishery, things are looking great as well. The fishery appears to well balanced. We sampled seven species of fish including 29 largemouth bass, 99 bluegills, 9 black crappie, 1 white crappie, 3 wipers, 3 channel catfish, and 10 common carp. Figure 3 shows a length frequency distribution for largemouth bass sampled and figure 4 shows a length frequency distribution for bluegill sampled.

All ten crappie sampled, were between 9 inches and 10 inches in length and 5 to 8 ounces in weight. Two wipers were between 8 inches and 9 inches and one wiper was 20.5 inches and weighed 3.5 pounds. All three catfish were between 19.5 inches and 20.5 inches in length and were 4 pounds to 4.25 pounds in weight. Carp ranged from 25 inches at 7.5 pounds to 31 inches at 14.5 pounds.

I would like to commend you for placing more habitat throughout the lake. It appears your hard work is paying off. With the exception of the presence of carp, the fishery is well balanced and water quality looks great! The only recommendation I have at this point is to continue doing what you've been doing regarding fish harvest and continue to stock walleye each year if you would like to maintain a good walleye population. Supplemental stocking of channel catfish is also recommended every three or four years.

I want to thank you again for your patronage! If you have any questions or would just like to visit about the lake, don't hesitate to give me a call. I look forward to continuing to help you and Lake Arrowhead with your future lake management needs.

**Figure 3. Length frequency distribution for largemouth bass in Lake Arrowhead, May 24, 2005.**



**Figure 4. Length frequency distribution for bluegills in Lake Arrowhead, May 24, 2005.**

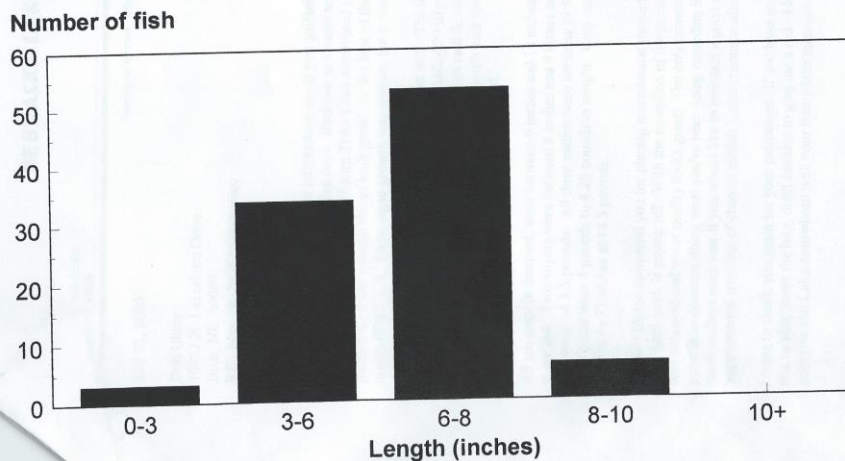


Figure 1. Water temperature profile for Lake Arrowhead, May 24, 2005.

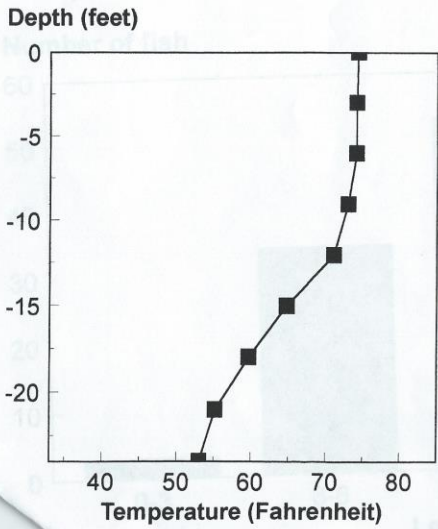


Figure 2. Dissolved oxygen profile for Lake Arrowhead, May 24, 2005.

