

Hardy Lake  
Scott and Jefferson Counties  
Supplemental Survey

Date of Survey: September 19, 2009

Biologist: Michelle L. Cain

Survey Objective: Measure the occurrence and abundance of submersed aquatic plants in Hardy Lake.

Methods: On September 19, submersed aquatic vegetation was sampled using Tier II guidelines developed by the Indiana Department of Natural Resources (2007). In this survey, thirty-two selectively chosen sites were sampled. Sites with high traffic, such as, boat ramps, dam, and the beach were sampled. Additionally, the entire lake shoreline was visually inspected.

Summary: The Secchi disk reading was 5.0 ft. As in previous surveys, submersed vascular vegetation was completely absent (Table 1). Emergent plant species observed included bulrush spp., cattail spp., American water willow, American lotus, water lily spp., common arrowhead, and purple loosestrife.

A lake-wide absence of submersed vegetation is due to the overabundance of triploid grass carp. The triploid grass carp stockings, which occurred at Hardy Lake in 1996 and 2000 through 2008 annually, were discontinued in 2009.

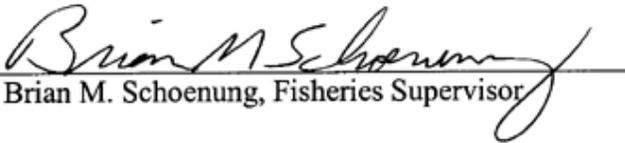
Literature Cited:

Indiana Department of Natural Resources. 2007. Tier II aquatic vegetation survey protocol. Indianapolis, Indiana. 31pp.

Lehman, L. L. and C.R. Kowalik. 2008. Hardy Lake fish management report 2007. Indiana Department of Natural Resources. Indianapolis, Indiana. 37 pp.

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 Date: January 26, 2010

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Table 1. Occurrence and abundance of submersed aquatic plants at Hardy Lake, 2009.

Occurrence and Abundance of Submersed Aquatic Plants - Overall					
Lake:	Hardy Lake	Secchi (ft):	5	SE Mean Species / Site:	0
Date:	9/16/2009	Littoral Sites w/Plants:	0	Mean Natives / Site:	0
Littoral Depth (ft):		Number of Species:	0	SE Mean Natives / Site:	0
Littoral Sites:	0	Max. Species / Site:	0	Species Diversity:	N/A
Total Sites:	32	Mean Species / Site:	0	Native Diversity:	N/A

Species	Frequency of Occurrence	Score Frequency				Dominance
		0	1	3	5	
Filamentous algae	3.1					
Other species noted:						
Algae spp.						
Bulrush spp.						
Cattail spp.						
American water willow						
American lotus						
Water lily spp.						
Common arrowhead						
Purple loosestrife						