

2013 Ivan Lake Aquatic Vegetation Control Plan

LDWF, Inland Fisheries

Aquatic Vegetation Status 2013:

Currently Ivan Lake has less than 5% coverage of nuisance aquatic vegetation. That 5% is comprised of alligator weed and water primrose totaling less than 2 acres. The lack of vegetation problems is due to an extended drawdown period for several years post accidental dewatering of the lake.

Previous Control Measures:

In the past, drawdowns have been the only method of aquatic vegetation control implemented on Ivan Lake. A drawdown was conducted in 1997 for alligator weed, lotus, coontail and hydrilla. Drawdowns were conducted annually 2004-present for hydrilla control.

DRAWDOWN HISTORY

Year	Date(s)	Depth Below Pool	Purpose
1967	Unknown	18 Feet- Maximum	To clear timber. Concrete boat ramp built during this time.
1969	Unknown	Unknown	May of 1969, letter from BPPJ letter requesting USACE to lower lake for vegetation control-no further documentation on file.
1974	End of July	18 Feet- Maximum	Dam and spillway renovation. Public Works estimated that approximately 85% water body coverage be reduced for repairs.
1997	August 18- December 15	6 Feet	Vegetation control and maintenance & repair of structures.
2002	Sept 3-Jan 1, 2003	3-4" per day No depth specified	Hydrilla control-did not take place because processed too late to meet necessary dates for hydrilla control
2003	Sept 13-Jan 19, 2004	6 Feet	Hydrilla control-did not take place- no letter was sent requesting the drawdown from BPPJ.
2004	Sept 13-Jan 24, 2005	6 Feet	Hydrilla control-first in a series of five consecutive drawdowns. Lake was accidentally dewatered at a rapid rate to maximum level by DOTD resulting in major fish kill. Discovered on Oct 4 th . Discussed further in Events / Problems and Fish Kills / Disease History Sections
2005	Sept 15-Jan 23, 2006	8 Feet scheduled then to 18'	Hydrilla control-Second in series of 5. Proposed 8' but DOTD requested maximum to make repairs to and inspect the control structure.
2006	Aug 28-Jan 31, 2007*	18 Feet Maximum	Hydrilla Control-3 rd in series of 5, dewatered to maximum to allow more drying of lake bed in preparations for renovation project. Delayed opening until early Sept due to repairs being made downstream on Bodcau Dam. Gates remained open throughout 2007 as USACE and DOTD made

			necessary inspections and repairs to control structures.
2007	All Year	18 Feet Maximum	Gates remained open all year for necessary repairs and inspections. Water levels fluctuated drastically during this time as the lake filled and drained several times due to large watershed, thus prevent growth of problematic terrestrial plants such as willow trees. This represents the fourth year of the series of 5 drawdowns for hydrilla control.
2008	Sept 3- indefinitely	18 Feet Maximum	Fifth in series of 5 for Hydrilla control. Maximum depth to get most drying benefits, and possibly to insert repair sleeve into pipe as it has reached the end of its service life. Gates are to remain open until further notice pending action by LDWF to take control of lease and possibly renovate lake bottom.

RECOMMENDATIONS

Current recommendations are to monitor the lake and to make herbicide treatments as necessary in 2013. Due to the rapid water level return and recent years of extended drawdown, vegetation problems are a minimum with only small spots of alligator weed and water primrose returning in 2012. As of February 2013, there are no aquatic weed problems on the lake. When spraying for alligator weed and water primrose, imazapyr shall be used at a 0.5 gal per acre rate in conjunction with 1 quart of Inergy surfactant.

Native submerged species are expected to return to Ivan Lake. The introduction of 600 triploid grass carp is recommended as a precautionary measure. The timing of the carp stocking will be determined by monitoring the lake during the 2013 year.

LDWF crews will be instructed to be extremely careful when launching boats from salvinia infested waters to insure no transport of giant salvinia into Ivan Lake from our work efforts on other lakes.