

2013 Red River Pool #1 Aquatic Vegetation Control Plan

Red River Lock and Dam #1 is located north of Marksville, La. Take Louisiana Highway 452 (Brouillette Highway) north out of Marksville, about 11 miles. Look for Corps of Engineers sign on the left side of the road at the foot of the levee and the ramp is over the levee to the lock and dam recreation area. There are 5 lock and dams that run from Shreveport to Marksville. These structures perform a stair step effort on the river, creating controllable pools and passageways for river traffic. Pool #1 is has depths ranging from 40 -60 feet. Small oxbows extend off of the main channel. Aquatic vegetation is minimal, consisting of water hyacinth and common salvinia.

Water body Information

Waterbody Type:

Impounded river

Parish/Location:

Avoyelles parish, LA

Date Created:

Completion of the 5 locks and dams was in 1994

Size (surface acres):

Lake: 3,750 acres

Water Control Structures:

Description:

Lock and Dams were completed in 1994. They are operated by the US Army Corps of Engineers.

Age and Condition:

1994 - Good

Ownership:

Red River Waterway Commission

Pool stage:

40.0 feet MSL

Border waters:

Atchafalaya River and Black River

What significant stakeholders use the lake?

Recreational fishermen and hunters, commercial fishermen and agricultural irrigation

What are their needs and concerns? What is the history of aquatic vegetation complaints?

Due to lack of aquatic plants, there have been no aquatic vegetation complaints.

Have there been any controversial issues on the lake?

No aquatic plants issues in Red River pool 1.

Past Control Measures:

Biological:

None

Chemical:

LDWF spray crews have not applied herbicide in Red River due to lack of vegetation.

Physical:

None

Aquatic Vegetation Status:

Biomass:

There is currently very little aquatic vegetation in Red River in 2012. Vegetation observed in July of 2012 consisted of water hyacinth and common salvinia. No submersed vegetation observed.

Predictions for 2013:

Water Hyacinth – 20 acres

Common Salvinia – 30 acres

Limitations:

Diploid grass carp have been present at least for the last 10 years, providing some degree of control over submersed vegetation.

Routine operation of the lock and dam provide control to floating vegetation.

Recommendations:

Herbicide applications will be conducted as necessary to facilitate public access. To control water hyacinth, 2,4-D will be applied at a rate of 0.5 gallons per acre. Diquat and glyphosate will be used at a rate of 0.75 gallons per acre to control common salvinia. Appropriate non-ionic surfactants will be used to improve the effectiveness of these treatments.

Map of the Red River

