INTRODUCTION

Kincad Reservoir, created from an earthen dam built in 1955 in Rapides Parish about 8.5 miles west of Alexandria, Louisiana, impounds the Red River and its tributaries, which provide irrigation, flood control, and water supply for about 20,000 acres of land. This reservoir is 4,170 acres in surface area and 1,400 acres in area when full. The reservoir is used by the United States Geological Survey for hydrography studies, and by the Louisiana Department of Environmental Quality for monitoring the water quality of the reservoir. The water within the reservoir is used for drinking, irrigation, and recreation.

Kincad Reservoir is one of the major water bodies in the state of Louisiana, and it is an important source of water for the surrounding area. The reservoir is used for irrigation, flood control, and recreation, and it is an important source of water for the surrounding area.

BATHYMETRY

Bathymetric data for Kincad Reservoir was collected during June 17-18, 1997. Acoustic echosounder and high-frequency sound waves were used to map the bottom topography of the reservoir. The data were collected using a Sea Beam 2000 system, which is a multi-beam echosounder. The data were then processed using the software HYPACK, which is used to create bathymetric maps.

DESCRIPTION OF STUDY AREA

Kincad Reservoir is located in Rapides Parish, Louisiana, about 8.5 miles west of Alexandria. The reservoir is 4,170 acres in surface area and 1,400 acres in area when full. The reservoir is used for irrigation, flood control, and recreation, and it is an important source of water for the surrounding area.

PHYSICAL AND CHEMICAL-RELATED PROPERTIES

Data on physical and chemical-related properties were collected on September 22, 1997, at selected sites in Kincad Reservoir. The data included temperature, pH, dissolved oxygen, and specific conductance. The data were collected using a SeaBeam 2000 multi-beam echosounder and a Starlink DGPS, which is a digital survey fathometer. The data were then processed using the software HYPACK, which is used to create bathymetric maps.

REFERENCES


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