Figure 1. Location of Lago Dos Bocas within the Rio Grande drainage basin.

Introduction

Lago Dos Bocas reservoir was completed in 1942 to provide water for hydroelectric power generation along the north coast of Puerto Rico. The reservoir had an original storage capacity of 17.30 million cubic meters (m³). The dam located about 18 km downstream from the town of Utuado. The Rio Grande de Arecibo Branch Dam was completed in 1942. The reservoir is the main source of water for the Puerto Rico Aqueduct and Power Authority (PRAPA), which supplies water to the island of Puerto Rico. The reservoir has a surface area of about 11.7 square kilometers (km²). The maximum depth of the reservoir is about 21.5 meters (m). The reservoir was completed in 1942 to provide water for hydroelectric power generation. The reservoir is the main source of water for the Puerto Rico Aqueduct and Power Authority (PRAPA), which supplies water to the island of Puerto Rico.

Method of Survey and Analysis

The bathymetric and bathodygraphic data collection procedures used for the 2010 survey were based on the following procedures established by the U.S. Geological Survey: United States (USGS) and described in a technical survey report of Lago Dos Bocas (Soler-López, 2007). The January 2010 bathymetric survey was conducted using a Global Positioning System (GPS) equipped with a digital depth sonar module to provide a depth-estimation data set. The depth-estimation data set was used for the January 2010 survey. The depth-estimation data set was used to estimate the depth of the reservoir. The depth-estimation data set was used to estimate the depth of the reservoir. The depth-estimation data set was used to estimate the depth of the reservoir. The depth-estimation data set was used to estimate the depth of the reservoir. The depth-estimation data set was used to estimate the depth of the reservoir.

Table 1. Comparison between the August 2005 and the January 2010 sedimentation survey of Lago Dos Bocas, Puerto Rico

Table 2. Storage capacity of Lago Dos Bocas, Puerto Rico

Sedimentation Survey of Lago Dos Bocas, Utuado, Puerto Rico, January 2010

By Luis R. Soler-López

References Cited


Figure 2. Bathymetric map of Lago Dos Bocas, Utuado, Puerto Rico. January 2010.

Figure 3. Sedimentation survey of Lago Dos Bocas, Utuado, Puerto Rico, January 2010.