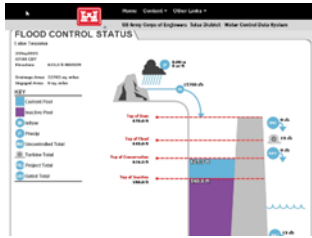


USACE LAKES - App / Widget

Background

Water Control data is used on a daily basis to make Management, Recreation, and Safety decisions. This data can be found on various Water Control Websites. U.S. Army Corps of Engineers staff and its customer access these pages but they are often difficult to find and cumbersome to navigate. There are four crucial pieces of information found on these pages that can change the outcome of any decision and possibly save lives. These are Elevation, Relation to Normal, Releases, and Time/Date.

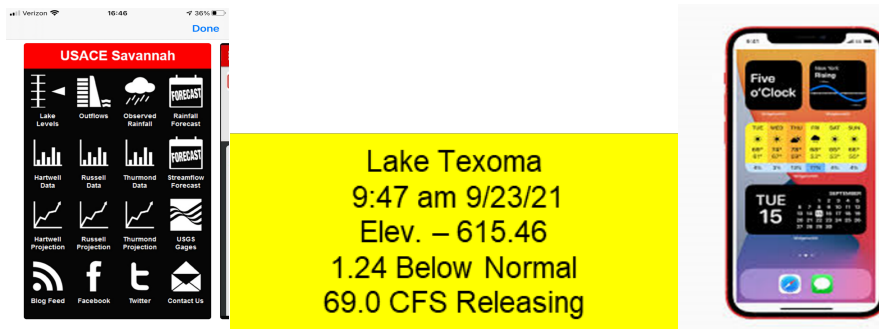


Current Readings:

- 1.24 ft BELOW normal
- Pool elevation is 615.26 feet on Tuesday 21Sep21 Time: 07:00 hours.
- At this elevation the total amount of water stored in Lake Texoma is 2360081 acre-feet.
- Reservoir release is **69.0** cubic feet per second on Tuesday 21Sep21 Time: 07:00 hours.
- Conservation pool is 93.63% full.
- Conservation storage filled is 1327664 acre-feet which is equivalent to 0.74 inches of runoff over the entire drainage basin.
- Conservation storage empty is 73802 acre-feet which is equivalent to 0.04 inches of runoff over the entire drainage basin.

Project Description

Our project would make this information quick and easy to read by pulling the water control information off of the website, putting it in a App and then pushing it to a widget. This would then create information at the moment you open your phone. It would update hourly similarly to the website and the lake would be selectable. The App would also house other information like Historical Data, Water Safety, and Lake Event Information. The widget would just contain the selected lake's Elevation, Relation to Normal, Current Release Information, and Time/Date.



Outcome

A function App paired with a widget that pulls Water Control Data for a selected lake every hour and makes it readily available at the opening of a individuals phone.

Skillset

The team would needs to have hourly Website data retrieval knowledge with the ability to create an App that does this function. They would also need to know how to build a widget that pairs with this App so that the information is available on the home screen after unlock.

Thank you for your time and consideration!