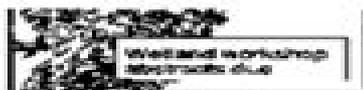




US Army Corps  
of Engineers  
Waterways Experiment  
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AD-A283 262



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The Wetlands Research Program

# Bulletin

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## Ultrasonic sensors viable option for water surface measurements

David D. Abraham and Brad R. Hall, U.S. Army Engineer Waterways Experiment Station

Installing instruments for measuring water levels in a wetland environment can be a high dollar investment as well as a frustrating experience. Traditional installation includes the need for expensive sailing wells. A loss of instruments, and thus data, due to floating debris or fouling caused by suspended sediment or bio-masses may also occur. These negative impacts on a scientific study can be avoided if the experimental design allows the use of an ultrasonic sensor.

### Sensors deployed above water

Ultrasonic instruments have been used to measure water surface elevation for a number of years with varying degrees of success. The benefits of these devices derive mainly from the fact that there is no direct contact with water. The inherent shortcomings of using an ultrasonic sensor are the instrument's sensitivity to temperature and wind. Changes in temperatures of 15°F or more over very short time increments can cause the accuracy to vary ±0.04 ft. Wind can also affect the accuracy and disturb the water surface, resulting in the loss of the signal and thus the distance measurement.

### Ultrasonic sensor used in WRP study

As part of a research project to model flow and sedimentation in the Cache River, Ark., bottomland



Ultrasonic sensor platforms used in Cache River, Ark., field study (see pg 3)

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**Scott C. Dulebohn**



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