

# NOTICE OF PUBLICATION

---



AQUACULTURE & FISHERIES INNOVATION LAB

## RESEARCH REPORTS

Sustainable Aquaculture for a Secure Future

---

**Title:** Hydrogen Sulfide Toxic, But Manageable

**Author(s):** Claude E. Boyd<sup>1</sup>

1. Department of Fisheries and Allied Aquacultures Auburn University Auburn, Alabama  
36849 USA

**Date:** 05 December 2017

Publication Number: AquaFish Research Report 14-A12

AquaFish will not be distributing this publication. Copies may be obtained by writing to the authors.

**Abstract:** Hydrogen sulfide, which can form in pond bottom sediment, is toxic to aquatic animals because it interferes with reoxidation of cytochrome  $a_3$  in respiration. The main practices for lessening the risk of hydrogen sulfide toxicity are conservative feeding to avoid wasted feed on pond bottoms, plenty of aeration to prevent low dissolved-oxygen levels and provide a flow of oxygenated water across the soil-water interface, and liming to prevent acidic sediment and water.

This abstract was excerpted from the original paper, which was in the *Global Aquaculture Advocate* 17(2): 34-35.

---

**AQUAFISH RESEARCH REPORTS** are published as occasional papers by the Management Entity, AquaFish Innovation Lab, Oregon State University, Corvallis, Oregon 97331-1643 USA. The AquaFish Innovation Lab is supported by the US Agency for International Development under Grant No. EPP-A-00-06-00012-00. See the website at <aquafishcrsp.oregonstate.edu>.