

NOTICE OF PUBLICATION



RESEARCH REPORTS

TITLE XII POND DYNAMICS/AQUACULTURE COLLABORATIVE RESEARCH SUPPORT PROGRAM

Title: Comparison of Two Samplers Used with an Automated Data Acquisition System in Whole-Pond, Community Metabolism Studies

Author(s): Bartholomew W. Green and David R. Teichert-Coddington, Department of Fisheries and Allied Aquacultures, and Alabama Agricultural Experiment Station, Auburn University, Alabama 36849-5419, USA

Date: 29 May 1992

Publication Number: 92-47

Price: The CRSP will not be distributing this publication. Copies may be obtained by writing to the authors.

Abstract: Automated data-logging equipment permits frequent *in situ* measurements of water quality variables and allows for better estimates of primary production and community metabolism in aquaculture ponds. A system to sample four contiguous 0.1-hectare earthen ponds is described. Two samplers for obtaining water samples for analysis were designed and compared. The first sampled at discrete depths throughout the water column, whereas the second obtained a composite water column sample. Samplers were constructed from readily available stocks of iron accessories or polyvinyl chloride fittings. Mean dissolved oxygen concentration, pH, and temperature did not differ significantly between water samples taken by the two samplers.

This abstract was reprinted from the original which was published in *The Progressive Fish-Culturist* 53:236-242, 1991.

CRSP RESEARCH REPORTS are published as occasional papers by the Program Management Office, Pond Dynamics/Aquaculture Collaborative Research Support Program, Office of International Research and Development, Oregon State University, Snell Hall 400, Corvallis, Oregon 97331-1641 USA. The Pond Dynamics/Aquaculture CRSP is supported by the U.S. Agency for International Development under CRSP Grant No.: DAN-4023-G-00-0031-00.