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## **RESEARCH REPORTS**

Sustainable Aquaculture for a Secure Future

Title:	Integration of intensive and semi-intensive aquaculture concept and example
Author(s):	C. Kwei Lin <sup>1</sup> , Kitjar Jaijen <sup>2</sup> , and Vorathep Muthwan <sup>3</sup>
	<ol> <li>Agricultural and Food Engineering Division, Asian Institute of Technology, GPO Box 2754, Bangkok, Thailand</li> <li>National Inland Fisheries Institute Bangkhen, Bangkok, Thailand</li> <li>Marine Biology Department, Srinakarinvirot University, Chonburi, Thailand</li> </ol>
Date:	21 May 1993 Publication Number: AquaFish Research Report 93-54
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Abstract:	An experiment on integrated walking catfish-tilapia culture was conducted for 5 months. The walking catfish were stocked at 400 and 800 fish/cage in two 4-m <sup>3</sup> nylon cages, which were suspended in each of two 250-m <sup>2</sup> earthen ponds. Sex-reversed male tilapia ( <i>Oreochromis niloticus</i> ) were reared at 1 fish/m <sup>2</sup> in the open pond. Whereas the catfish were reared with supplemental feed, tilapia were solely dependent on the natural diet derived from the recycled catfish waste. Weekly analysis of temperature, dissolved oxygen, ammonia, total phosphorus, total Kjeldahl organic nitrogen and chlorophyll a in the pond water showed that water quality was suitable for both tilapia and catfish growth. Total catfish and tilapia production was approximately 100 and 140 kg/pond, respectively. The experiment demonstrated that tilapia can efficiently use catfish waste and maintain desirable water quality.
	This abstract was excerpted from the original paper, which was published as <i>CRSP Research Report 93-54</i> by the Program Management Office of the Pond Dynamics/Aquaculture

**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 USA. The Pond Dynamics/Aquaculture CRSP is supported by the US Agency for International Development under CRSP Grant No. DAN-4023-G-SS-0031-00.

Collaborative Research Support Program (PD/A CRSP).