

NOTICE OF PUBLICATION

AQUACULTURE COLLABORATIVE RESEARCH SUPPORT PROGRAM



RESEARCH REPORTS

Sustainable Aquaculture for a Secure Future

Title: Efectos de Dietas de Proteínas y Densidades de Siembra Sobre la Producción de *Penaeus vannamei* en Estanques de Tierra

Author(s): David Teichert-Coddington
Arrue Marquisela
Dirección Nacional de Acuicultura, MIDA

Date: 8 March 2006 Publication Number: CRSP Research Report 87-A1

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

Abstract: A 2 * 2 factorial analysis was made to investigate the effect of protein diets on the growth of *Penaeus vannamei* sown at different densities in land tanks. The juvenile shrimp sown at densities of 4 x 8 shrimp / m² were fed 25% to 35% protein diets. The treatments were replicated from 3 to 4 times. At 99 days of growth there were no significant differences in terms of production, survival and average weight ($P > 0.05$), between the two protein levels. The average production (Kg/ha) for the 25% and 35% protein treated groups was 564 and 586, respectively, and the average weight (g) was 12.7 and 11.8, respectively. The shrimp production was significantly greater ($P < 0.05$) when sown at a high density, while the average weight and survival in that case were significantly low. The average production at high and low density was 624 and 533, respectively, and the average weight was 9.7 and 14.5 grams. The high density production, however, resulted in a reduced income because of the low unit price paid for small shrimp.

This abstract is excerpted from the original paper, which was in *Revista Latinoamericana de Acuicultura*, 35:29-33.

CRSP RESEARCH REPORTS are published as occasional papers by the Program Management Office, Aquaculture Collaborative Research Support Program, Oregon State University, 418 Snell Hall, Corvallis, Oregon 97331-1643 USA. The Aquaculture CRSP is supported by the US Agency for International Development under CRSP Grant No.: LAG-G-00-96-90015-00. See the website at <pdacrsp.orest.edu>.