

NOTICE OF PUBLICATION



RESEARCH REPORTS

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Title: Efecto de diferentes tasas de aplicacion de gallinaza en la produccion de tilapia
(The effect of different application rates of chicken litter on tilapia production)

Author(s): Bartholomew W. Green, International Center for Aquaculture, Auburn University, Alabama, U.S.A., and Hermes R. Alvarenga, Estación Acuícola Experimental "El Carao," Secretaría de Recursos Naturales, Comayagua, Honduras

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Abstract: Production of male tilapia (*Oreochromis niloticus*) (1 fish/m²) in 0.1 ha earthen ponds fertilized with different rates of chicken litter was studied using a completely randomized design at the "El Carao" Aquaculture Experiment Station, Comayagua, Honduras. The purpose of this study was to quantify tilapia production at different rates of chicken litter application.

Chicken litter was applied at the following rates: 125, 250, 500, and 1000 kg TS/ha/wk. After 150 days the net total production was 895, 1321, 1612, and 1950 kg/ha where 125, 250, 500, and 1000 kg TS/ha/wk, respectively, were applied. Net total production was regressed against rate of chicken litter application yielding the equation: $\hat{Y} = 933.5 + 1.09X$, $r = 0.87$. There was a positive relationship ($P < 0.05$) between rate of chicken litter application and net total fish production.

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