

NOTICE OF PUBLICATION

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Title: The Effect of Manures and Chemical Fertilizers on the Production of *Oreochromis niloticus* in Earthen Ponds

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Abstract: The effect of weekly applications of similar quantities of nitrogen and phosphorus from three different sources on the production of *Oreochromis niloticus* (10 000/ha) was studied in 0.1-ha earthen ponds. Layer chicken litter (500 kg total solids (TS)/ha), dairy cow manure (1020 kg TS/ha) and chemical fertilizer (46-0-0 at 30.6 kg/ha and 0-46-0 at 62.6 kg/ha) were applied weekly. Mean total net production after 150 days was greater with chicken litter (1759 kg/ha). Differences in fish production were explained in terms of net and gross primary productivity and community respiration.

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