

Ali Agustiana, 2017. EFFECTIVENESS OF USE OF ECONOMIC COMPOSTED FERTILIZER (Eichornia crassipes Solm) ON GROWTH CROPS

ABSTRACT

Cirata Reservoir is one of three reservoirs in West Java Province. It is located between Saguling Reservoir (upstream) and Ir.H. Djuanda (the downstream part). Cirata Reservoir was built in 1987 with an area of 6200 ha. The construction of Cirata Reservoir is intended as a Hydro Power Plant (PLTA) to meet the electricity needs of Java-Bali. Cirata reservoir is already in the stage of worrying because in tumbuhi many water hyacinth. To provide alternative solutions for water hyacinth, namely dijadika raw material for compost fertilizer. Compound fertilizer hyacinth that has been tested on the pepper plant within a period of three weeks of research. The method used in this study using Experimental Method with research design using Random Design Complete (RAL) consisting of 7 treatments and 22 repetitions. Parameters measured in this study were stem height and number of leaves on chili plants. The concentration of compost fertilizer given to chili plants varies, ie from 0% as control, 5% = 0.25 kg, 10% = 0.5 kg, 15% = 0.75%, 20% = 1 kg, 25% = 1.25 kg and 30% = 1.5 kg. The data showed one of seven treatments on chili, the fastest growing plant in the chili plants with concentrations of 30% water hyacinth compost fertilizer.

Keywords: *Compost Fertilizer, water hyacinth and pepper plant*