

ABSTRACT

Restarini, Megan. 2013. **Effect of addition of type and dose of Mediterranean Soil Manure On Growth Of Seeds of Jatropha (*Jatropha curcas* L)**

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Jatropha (*Jatropha curcas* L.) is a plant that has functions as a hedge plants, medicinal plants, oil producer for biodiesel which cultivated in tropical countries. Productivity is greatly influenced by genetic and environmental factors. The one important step in the cultivation of *Jatropha* nursery is the appropriate conditioning them with improved planting medium, in order to get the optimal growth. During this time *Jatropha* planted on marginal land. Mediterranean soil is marginal soils that have low soil N content. This marginal land with a right treatment is expected to provide the expected results. The addition of manure N is expected to increase the content of soil for plant growth. The purpose of this study was to determine the effect of type and dose of manure to the land of mediterranean on seedling growth of *Jatropha* (*Jatropha curcas* L)

Research compiled in a completely randomized design which consisting of 2 factors. First factor is the type of manure consists of 3 types is cow dung, goat dung, chicken dung. The second factor is the dose of manure include 10 tons / ha, 20 tons / ha, 30 tons / ha. Each factors repeated three times.

The results showed that both the type and dose of manure significantly affect seedling growth of *Jatropha* (*Jatropha curcas* L) are indicated by variable plant height, total of leafs, and dry weight. Gift of chicken manure at a dose of 20 tons / ha give the highest growth in seedlings of *Jatropha* (*Jatropha curcas* L.).

Keywords: Manure, *Jatropha* seeds (*Jatropha curcas* L).