

ABSTRACT

To test "Effect of Chicken Bone Ash as a Source of P-SP-36 Fertilizer Substitute for Shallot Cultivation", determine the most effective balance between chicken bone ash with SP-36 on the production of Shallots. This research has been carried out at the Green House of the Faculty of Agriculture, University of Muhammadiyah Yogyakarta, Tamantirto, Kasihan, Bantul, D.I.Y.

The study was conducted using an experimental method, arranged in RAL (Completely Randomized Design) single factor with 5 treatments, namely: 100% SP-36 + 0% chicken bone ash, 75% SP-36 + 25% chicken bone ash, 50% SP-36 + 50% chicken bone ash, 25% SP-36 + 75% chicken bone ash, 0% SP-36 + 100% chicken bone ash. Each treatment was repeated 3 times so that 15 experimental units were obtained. Each pilot unit used 5 plants, including 5 sample plants, so that there were 75 units of polybags.

*Chicken Bone Ash as P source can replace SP-36 fertilizer in Tiron (*Allium Cepa* Var *Ascalonicum* (L)) cultivation, in all treatment dosages the application of Chicken Bone Ash can effectively replace the role of P element in SP-36 fertilizer as P source on the cultivation of Tiron Shallots.*

Keywords: Tiron Shallot, SP-36 Fertilizer, Chicken Bone Ash.