

**BALANCE DOSE OF FERTILIZER N, P, K AND COMPOST FARM  
MANURE IN THE FORM OF NATURAL AND NON NATURAL  
GROWTH OF CORN ( *Zea mays* L. ) IN THE LAND REGOSOL**

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**ABSTRACT**

*The study, entitled balance dose of fertilizer N, P, K and farm manure in pelet form to the growth of maize ( *Zea mays* L. ) in soil regosol which aims to determine the effect and the best balance of compost manure on the growth of the corn crop in the ground has regosol conducted between February and June 2016 in the Green House and the Faculty of Agriculture UMY .*

*This research was conducted with the experimental method with single factor experimental design were arranged in a completely randomized design ( CRD ). Factors that were tested, namely the balance of cow dung compost fertilizers and NPK were pelletized consists of 6 treatments are P1 : Fertilizer N 60 kg / ha ; P 30 kg / hectare ; K 15 kg / hectare + composted farm manure 15 t / ha form of pellets . P2 : Fertilizer N 80 kg / ha ; P 40 kg / hectare ; K 20 kg / hectare + composted farm manure 20 t / ha form of pellets . P3 : Fertilizer N 100 kg / ha ; C 50 kg / hectare ; K 25 kg / hectare + composted farm manure 25 t / ha form of pellets . P4 : Fertilizer N 60 kg / ha ; P 30 kg / hectare ; K 15 kg / hectare + composted farm manure 15 t / ha grain forms . P5 : Fertilizer N 80 kg / ha ; P 40 kg / hectare ; K 20 kg / hectare + composted farm manure 20 t / ha granular form . P6 : Fertilizer N 60 kg / ha ; P 30 kg / hectare ; K 15 kg / hectare + composted farm manure 25 t / ha of grain shape.*

*Balance of fertilizer N, P, K and composted farm manure granular form affect the growth of corn plants in regosol soil and fertilizer N 60, P 30, K 15 kg / hectare + composted farm manure 15 t / ha of grain shape is best counterweight .*

*Keywords : N,P,K, farm fertilizer, corn, soil regosol.*