

PENGESAHAN

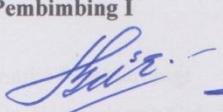
EFEKTIVITAS MIKROORGANISME LOKAL (MOL) DAN PUPUK  
ORGANIK CAIR TERHADAP PERTUMBUHAN DAN HASIL  
TANAMAN SORGUM (*Sorghum bicolor* L.)

Oleh :

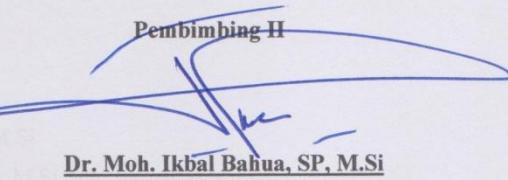
Saiman Lamangida  
NIM. 613 412 090

Telah Diperiksa dan Disetujui oleh Komisi Pembimbing

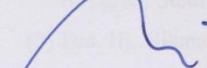
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Tanggal ujian : 22 Juli 2016

Tanggal lulus : Juli 2016

## **DAFTAR PENGUJI**

### **EFEKTIVITAS MIKROORGANISME LOKAL (MOL) DAN PUPUK ORGANIK CAIR TERHADAP PERTUMBUHAN DAN HASIL TANAMAN SORGUM (*Sorghum bicolor* L.)**

**OLEH**

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## **ABSTRAK**

**Saiman Lamangida. NIM. 613 412 090:** Efektifitas Mikroorganisme Lokal (MOL) Dan Pupuk Organik Cair terhadap Pertumbuhan Dan Hasil Tanaman Sorgum (*Sorghum bicolor L*) . Hayatingsih Gubali selaku pembimbing I dan Mohamad Ikbal Bahua selaku pembimbing II.

Penelitian ini bertujuan untuk mengetahui efektifitas mikroorganisme lokal (MOL) dan pupuk organik cair terhadap pertumbuhan dan hasil tanaman sorgum (*Sorghum bicolor L*). Penelitian ini dilaksanakan di Desa Tamboo, Kecamatan Tilongkabila, Kabupaten Bone Bolango pada Bulan Maret sampai Bulan Juni 2016 Penelitian ini menggunakan Rancangan Acak Kelompok (RAK) Faktorial yang terdiri atas dua faktor yaitu faktor pertama menggunakan mikroorganisme lokal (MOL) yang terdiri atas tiga taraf yaitu tanpa mol, dosis 60 liter/14 liter air dan 85 liter/14 liter air, faktor kedua menggunakan pupuk organik cair (POC) yang terdiri atas tiga taraf yaitu tanpa pupuk, dosis 20 liter/ha dan 30 liter/ha. Parameter yang diamati adalah tinggi tanaman, jumlah daun, panjang malai, indeks luas daun, produksi perpetak dan berat 1000 butir sorgum. Hasil penelitian menunjukkan bahwa Mikroorganisme lokal (MOL) dan pupuk organik cair (POC) berpengaruh terhadap pertumbuhan dan hasil tanaman sorgum. Interaksi antara mikroorganisme lokal dan pupuk organik cair terhadap pertumbuhan dan hasil tanaman sorgum dengan dosis terbaik MOL 85 ml/14 liter air + POC 30 liter/ha.

**Kata kunci:** *Mikroorganisme lokal, Pupuk organik cair, Sorgum.*

## **ABSTRACT**

Saiman Lamangida. STUDENT ID. 613 412 090. Effectiveness of Local Microorganism and Bio Urine toward the Growth and Product of Sorghum (*Sorghum bicolor* L.). Principal supervisor is Hayatiningsih Gubali and Co-Supervisor is Mohamad Ikbal Bahua.

The research aims at understanding effectiveness of local microorganism and bio urine toward the growth and product of sorghum (*Sorghum bicolor* L.). It is conducted at Tamboo Village, Tilongkabila Sub-district, Bone Bolango District, from March to June 2016. It uses randomized factorial design group which consists of two factors, they are; first factor local microorganism which consists of three stages that are; without mol, dose of 60 liters/14 liters water and 85 liters/14 liters water, second factor uses bio urine which consists of three stages that are : without bio urine,dose of 20 liters/ha dan 30 liters/ha. The observed parameter is plant height, number of leaf, panicle length, leaf area index, production per plot and weight of 1000 sorghum grain. The result shows that local microorganism and bio urine influence toward the growth and product of sorghum. There is interaction between local microorganism and bio urine toward the growth and product of sorghum with the best dose of 85 ml/14 liters of water + POC 30 liters/ha.

*Keywords : Local microorganism, Bio urine, Sorghum*

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