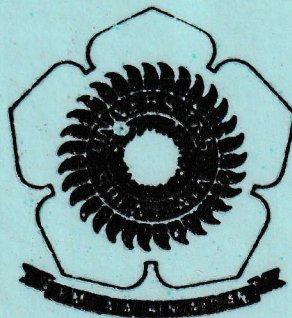


SKRIPSI

**PENAMBAHAN UREA DAN EM-4 PADA ECENG  
GONDOK (*Eichornia crassipes*) TERHADAP  
KUALITAS FISIK, DERAJAT KEASAMAN  
(pH), KEHILANGAN BAHAN  
KERING DAN BAHAN  
ORGANIK**

***THE ADDITION OF UREA AND EM-4 HYACINTH  
(*Eichornia crassipes*) ON THE PHYSICAL  
QUALITY, ACIDITY (pH), LOSS OF  
DRY MATTER AND ORGANIC  
MATTER***



**Rizki Wulandari  
05111004024**

**PROGRAM STUDI PETERNAKAN  
FAKULTAS PERTANIAN  
UNIVERSITAS SRIWIJAYA  
2015**

## LEMBAR PENGESAHAN

### **PENAMBAHAN UREA DAN EM-4 PADA ECENG GONDOK (*Eichornia crassipes*) TERHADAP KUALITAS FISIK, DERAJAT KEASAMAN (pH), KEHILANGAN BAHAN KERING DAN BAHAN ORGANIK**

#### **SKRIPSI**

Sebagai Salah Satu Syarat Untuk  
Memperoleh Gelar Sarjana Peternakan

Oleh:

**Rizki Wulandari**  
**05111004024**

Indralaya, Mei 2015

**Pembimbing I**



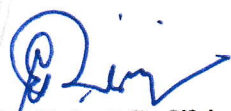
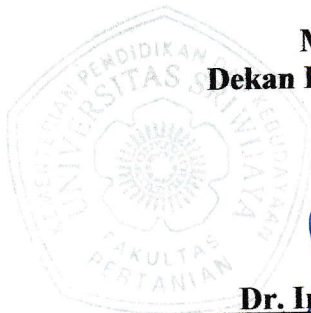
**Riswandi, S.Pt., M.Si**  
**NIP. 196910312001121001**

**Pembimbing II**



**Dr. Sofia Sandi, S.Pt., M.Si**  
**NIP. 197011231998032005**

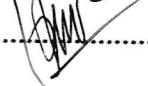


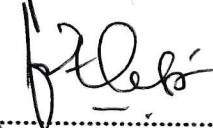
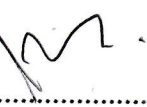
**Mengetahui,**  
**Dekan Fakultas Pertanian**



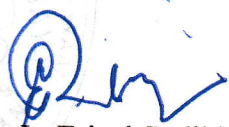
**Dr. Ir. Erizal Sodikin**  
**NIP. 196002111985031002**

Skripsi dengan judul "Penambahan Urea dan EM-4 pada Eceng Gondok (*Eichornia crassipes*) Terhadap Kualitas Fisik, Derajat Keasaman (pH), Kehilangan Bahan Kering dan Bahan Organik" Oleh Rizki Wulandari telah dipertahankan di hadapan Komisi Penguji Skripsi Fakultas Pertanian Universitas Sriwijaya pada 4 Mei 2015 dan telah diperbaiki sesuai saran dan masukan dari tim penguji.

Komisi Penguji


- |                                                                 |            |                                                                                           |
|-----------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------|
| 1. Riswandi, S. Pt, M. Si<br>NIP. 196910312001121001            | Ketua      | (  )   |
| 2. Dr. Sofia Sandi, S.Pt, M.Si<br>NIP. 197011231998032005       | Sekretaris | (  )   |
| 3. Asep Indra M. Ali, S. Pt, M. Si<br>NIP. 197605262002121003   | Anggota    | (  )   |
| 4. Fitri Nova Liya Lubis, S.Pt, M.Si<br>NIP. 198012052008122001 | Anggota    | (  )  |
| 5. Gatot Muslim, S.Pt., M.Si<br>NIP. 197801042008011007         | Anggota    | (  ) |

Mengetahui,  
Dekan Fakultas Pertanian  
Universitas Sriwijaya

  
Dr. Ir. Erizal Sodikin  
NIP. 196002111985031002

Indralaya, Mei 2015

Ketua Program Studi  
Peternakan

  
Dr. Sofia Sandi, S.Pt., M.Si  
NIP. 197011231998032005

## PERNYATAAN INTEGRITAS

Yang bertanda tangan dibawah ini :

Nama : Rizki Wulandari  
NIM : 05111004024  
Judul : Penambahan Urea dan EM-4 Pada Eceng Gondok (*Eichornia Crassipes*) Terhadap Kualitas Fisik, Derajat Keasaman (pH), Kehilangan Bahan Kering Dan Bahan Organik

Menyatakan dengan sesungguhnya bahwa seluruh data dan informasi yang disajikan dalam Skripsi ini adalah benar merupakan hasil penelitian saya sendiri di bawah supervisi pembimbing, kecuali yang disebutkan dengan jelas sumbernya. Apabila di kemudian hari ditemukan unsur plagiasi dalam Skripsi ini, maka saya bersedia menerima sanksi akademik dari Universitas Sriwijaya.

Demikian pernyataan ini saya buat dalam keadaan sadar dan tidak mendapat paksaan dari pihak manapun.



Indralaya, Mei 2015



RIZKI WULANDARI

## SUMMARY

**RIZKI WULANDARI.** The Addition Of Urea and EM-4 Water Hyacinth (*Eichornia Crassipes*) On The Physical Quality, Acidity (pH), Loss Of Dry Matter And Organic Matter (supervised by **RISWANDI** and **SOFIA SANDI**).

Water Hyacinth is a wild plant in the surrounding waters. Water hyacinth is considered as harmful for aquatic weeds can cause silting waters, but the water hyacinth can be used as fodder by treatment first. The purpose of this study was to determined the effect of addition urea and EM-4 of the physical quality, pH, loss of dry matter and organic matter hyacinth. This research was held in June to August 2014, at the Laboratory of food and animal nutrition Studies Program Faculty of Agriculture, Sriwijaya University Inderalaya, Ogan Ilir, South Sumatra. Research conducted by the experimental method. The research design used was a completely randomized design (CRD), which consists of 4 treatments and 4 replications. The treatment in this study are as follows: A = WH without treatment (control), B = WH + 2% Urea (ammoniation), C = WH + 2% Urea + 8% EM-4 (ammoniation and silage) , D = WH + 8% EM-4 (Silage). The parameters observed physical quality, the degree of acidity (pH), loss of dry matter and organic matter . The results of this study concluded that the treatment of silage with 8% EM-4 is the best treatment to improve the physical quality of the water hyacinth and can maintain a stable pH ( 3.65 ) and the resulting loss of dry matter ( 7.27% ) and organic matter ( 6.20% ) were the lowest.

Keywords : *hyacinth , loss of dry matter, loss of organic matter, pH, physical quality.*

