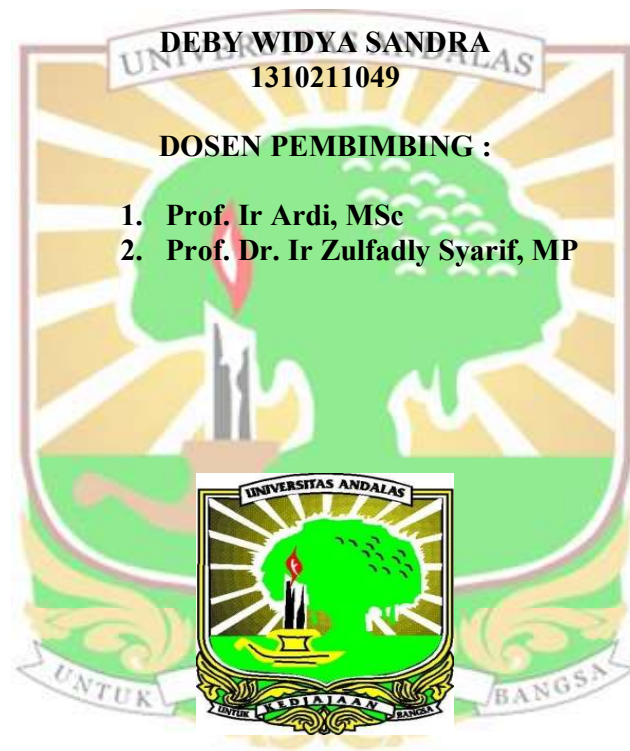



**PENGARUH MEDIA TANAM BAHAN ORGANIK PAKIS DAN TAKARAN PUPUK
NPKMg TERHADAP PERTUMBUHAN BIBIT AREN (*Arenga pinnata* Merr.)**

SKRIPSI

Oleh



**FAKULTAS PERTANIAN
UNIVERSITAS ANDALAS
PADANG
2017**

	University Graduate Number	DEBI WIDYA SANDRA	Faculty Graduate Number
	<p>a). Place/Date of Birth: Padang /April, 5th 1995 b). Name of Parents: Zulkarnaini and Idati SPd c). Faculty: Agriculture d). Department: Agrotechnology e). Reg Number: 1310211049 f). Examined on: September, 29th 2017 g). Distinction: Very satisfactory h). GPA: 3,23 i). Length of Study: 4 years and 3 months j). Parent's Address : housing padang sarai permai, Blok j, No.3, Kecamatan Koto Tangah, Kota Padang.</p>		

THE EFFECT OF FERN ORGANIC MATERIAL AS PLANTING MEDIA AND NPKMG FERTILIZER DOSE ON THE GROWTH OF AREN (*ARENCA PINNATA MERR*)

SI Thesisby: Debi Widya Sandra Lecturer: 1. Prof. Ir. Ardi MSc ; 2. Prof. Dr. Ir. Zulfadly Syarif, MP

ABSTRACT

This research was conducted from October 2016 to April 2017 in experimental garden, Faculty agriculture, University of Andalas. The objectives of research are to study the interaction between fern organic materials with NPKMg fertilizer and to determine the best dose and the composition of fern organic materials and NPKMg fertilizer for the growth of aren (*Arenga pinnata* Merr.). This study used a completely randomized design (CRD) pattern in factorial with two-factors. The first factor was composition of soil and fern organic materials with five levels of treatment 10%, 20%, 30%, 40% and 50%. Then the second factor is NPKMG fertilizer dose with four levels of treatment 2,5 gram/plant, 5 gram/plant, 7,5 gram/plant, and 10 gram/plant, each with four replications so there were 80 experimental units. The observed variable is the height of plants, number of leaves, the diameter of the widest leaves, the width and the length of the longest leaves. The data were analyzed by F-test and continued by Duncan New Multiple Range Test (DNMRT) at 5% level of confidence. Results of study showed that dose 10% BO fern with 5 g of NPKMg fertilizer provide the best growth in diameter plant of aren.

Keywords: *Planting Media, Fern, NPKMg Fertilizers, Aren*

This thesis has been defended and was passed on Sept, 29th 2017

Abstract Editor

Peter Parley, Ph.D

Abstracts have been approved by the examiners :

Examiners :


Signature	1.	2.	3.	4.	5.
Name	Prof. Dr. Ir. Auzar Syarif, MS	Dr. Yusniwati, SP. MP	Dr. Ir Benni Satria, MP	Prof. Ir. Ardi MSc	Prof. Dr. Ir. Zulfadly Syarif, MP

Departemental Chair : Dr. Yusniwati, SP. MP
NIP: 197012172000122001

Signature

This graduate has registered with the Faculty of Agriculture/University of Andalas and was given to following graduation number:

	Official of Faculty/University	
Faculty Graduate Number :	Name :	Signature :
University Graduate Number :	Name :	Signature :

	No. Alumni Universitas	DEBI WIDYA SANDRA	No. Alumni Fakultas
	a). Tempat/tgl lahir: Padang/5 April 1995 b). Nama orang tua : Zulkarnaini dan Idati SPd c). Fakultas: Pertanian d). Program studi: Agroteknologi e). No.BP : 1310211049 f). Tgl. Lulus: 29 September 2017 g). Predikat lulus: Sangat memuaskan h). IPK: 3,23 i). Lama studi: 4 tahun dan 3 bulan j). Alamat orang tua: komplek Padang sarai Permai, Blok J, No. 3, Kecamatan Koto Tengah, Kota Padang.		

PENGARUH MEDIA TANAM BAHAN ORGANIK PAKIS DAN TAKARAN PUPUK NPKMg TERHADAP PERTUMBUHAN BIBIT AREN (*Arenga pinnata* Merr.)

Skripsi SI oleh : Debi Widya Sandra Pembimbing: 1. Prof. Ir. Ardi MSc ; 2. Prof. Dr. Ir. Zulfadly Syarif, MP

ABSTRAK

Percobaan ini dilaksanakan di Kebun Percobaan Fakultas Pertanian Universitas Andalas dari bulan Oktober 2016 sampai April 2017. Penelitian ini bertujuan untuk mendapatkan interaksi antara bahan organik pakis dengan pupuk NPKMg serta mendapatkan dosis maupun komposisi terbaik dari bahan organik pakis dan pupuk NPKMg terhadap pertumbuhan tanaman aren (*Arenga pinnata* Merr.). Percobaan ini menggunakan Rancangan Acak Lengkap (RAL) pola faktorial dua faktor dengan faktor pertama lima taraf perlakuan yaitu media tanam bahan organik pakis 10%, 20%, 30%, 40% dan 50%, faktor kedua empat taraf perlakuan yaitu takaran pupuk NPKMg 2,5 g, 5 g, 7,5 g, dan 10 g, dan empat ulangan sehingga terdapat 80 satuan percobaan. Hasil pengamatan di analisis secara statistik dengan uji F dan sebagai uji lanjutan dipakai Duncan New Multiple Range Test (DNMRT) pada taraf 5%. Variabel yang diamati adalah tinggi bibit, jumlah daun bibit, diameter bonggol bibit, panjang helaian daun bibit dan lebar helaian daun bibit aren. Hasil percobaan menunjukkan bahwa pemberian dosis 10% BO pakis dengan 5g takaran pupuk NPKMg memberikan pertumbuhan terbaik pada diameter bonggol bibit tanaman aren.

Kata kunci : *Media Tanam, Bahan Organik Pakis, Pupuk NPKMg, Aren.*

Skripsi ini telah dipertahankan di depan sidang penguji dan dinyatakan lulus tanggal 29 September 2017

Abstrak telah disetujui oleh penguji :

Penguji :

Signature	1.	2.	3.	4.	5.
Name	Prof. Dr. Ir. Auzar Syarif, MS	Dr. Yusniwati, SP., MP	Dr. Ir Benni Satria, MP	Prof. Ir. Ardi MSc	Prof. Dr. Ir. Zulfadly Syarif, MP

Koordinator Program Studi : Dr. Yusniwati, SP., MP

NIP: 197012172000122001

Tanda Tangan

Alumnus telah mendaftar ke Fakultas/Universitas Andalas dan mendapat Nomor Alumnus:

	Petugas Fakultas/Universitas	
No. Alumni Fakultas :	Nama :	Tanda Tangan :
No. Alumni Universitas :	Nama :	Tanda Tangan :