635.65 P15

INFLUENCE OF COMPLETE FERTILIZER (14-14-14) ON THE GROWTH AND YIELD OF CADIOS

THESIS

Proceso B Patton

Don Severino Azricultural College Indang, Cavite April, 1980

INFLUENCE OF COMPLETE FERTILIZER (14-14-14) ON THE GROWTH AND YIELD OF CADIOS

A Thesis

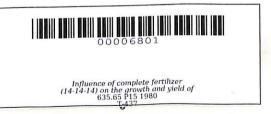
Presented to the Faculty of the Don Severino Agricultural College Indang, Cavite

In Partial Fulfillment of the Requirements

for the Degree of Bachelor of Science

in Agriculture (BSA) Major in

Agronomy



Proceso B. Paiton April, 1980

ABSTRACT

The study, "Influence of Complete Fertilizer (14-14-14) on the Growth and Yield of Cadios" was conducted from June 8, 1979 to January 1980 in General Emilio Aguinaldo, Cavite. The purpose of the study was to determine the rate of complete fertilizer that will influence the growth and yield of cadios.

Seeds were planted in rows at a distance of 100 x 100 centimeters at the rate of two to three seeds per hill having a depth of three to five centimeters.

The different treatments used were as follows: for Tl,plants were applied with 400 kilograms of complete fertilizer (14-14-14) per hectare; T2, 350 kilograms of complete fertilizer per hectare; T4, 250 kilograms of complete fertilizer per hectare. For T5,plants were not applied with complete fertilizer which served as control.

Based on the result of this experiment the application of complete fertilizer at a rate of 300 kilograms per hectare produced the highest yield and best growth as compared to that of other treatments included in the study.

TABLE OF CONTENTS

													Page
BIOGRAPHICAL DA	TA .		•		•	•		•	•	•	•	•	iii
ACKNOWLEDGMENT	• •		•		•	•	• •	•	•	•	•	•	iv
ABSTRACT	• •		•		•	•	• •	•	•	•	•	•	v
LIST OF TABLES			•		•	•		•	•	•	•	•	viii
LIST OF FIGURES			•		•	•		•	•	•	•	•	ix
INTRODUCTIO	N .	• •	•	• •	•	•	• •	•	•	•	•	•	1
Importance	e of	the	St	udy	•	•	•	•	•	•	•	•	2
Objective	of t	he	Stu	d y	•	•		•	•	•	•	•	2
Time and	Place	of	th	e S	tud	ly .	• •	•	•	•	•	•	2
REVIEW OF R	ELATE	D L	ITE	RAT	URE	c,	• •	•	•	•	•	•	3
MATERIALS A	ND ME	THO!	DS	•	•	•	•	•	•	•	•	•	6
Materials		•		•	•	•	•	•	•	•	•	•	6
Methods .		•	• •	•	•		•	•	•	•	•	•	6
Soil sar	nplin	g .		•	•		•	•	•	•	•	•	6
Land pre	epara	tion	1	•	•		•	•	•	•	•	•	6
Field la	ayout	•		•	•		•	•	•	•	•	•	6
Fertiliz	zatio	n .		•	•		•	•	•	•	•	•	7
Planting	s				•		•	•	•	•	•	•	7
Thinning	g and	rep	plai	ntir	ıg	• •	•	•	•	•		•	7
Weeding	and	cult	iva	atio	n		•	•	•	•	•	•	7
Control	of p	ests	a a	nd d	lis	eas	es	•	•	•	•	•	7
Harvesti gather											•	_	8

DISCUSSION OF RESULTS
Number of Days from Planting to Flowering
Number of Days from Planting to Maturity ,
Number of Days from Flowering to Maturity
Average Number of Pods per Plant 11
Average Fresh Weight in Grams of Pods . 15
Average Dried Weight in Grams of Pods . 15
Computed Yield per Hectare 19
SUMMARY, CONCLUSION AND RECOMMENDATION
Summary
Conclusion
Recommendation
BIBLIOGRAPHY
APPENDICES

LIST OF TABLES

Table			Page
	1.	Number of Days from Planting to Flowering	10
	2.	Number of Days from Planting to Maturity	10
	3.	Number of Days from Flowering to Maturity	13
	4.	Average Number of Pods per Plant .	14
	5•	Average Fresh Weight of Pods in Grams	17
	6.	Average Dried Weight of Pods in Grams	18
	7.	Computed Yield in Kilograms per Hectare	20

LIST OF FIGURES

Figure		Pag	е
	1.	Field Layout 24	
	2.	General View of the Experiment . 25	
	3.	a. Pods Harvested in Treatment 1 . 26	
		b. Pods Harvested in Treatment 2 27	
		c. Pods Harvested in Treatment 3 28	
		d. Pods Harvested in Treatment 4 29	
		e. Pods Harvested in Treatment 5 30 (control)	

INFLUENCE OF COMPLETE FERTILIZER (14-14-14) ON THE GROWTH AND YIELD OF CADIOS 1/

by

Proceso B. Paiton

INTRODUCTION

Cadios, (<u>Cajanus cajan</u>(L) Millep) is a leguminous plant and grows on as much as two meters high. It thrives for a number of years and produces fruit in small pods. Young seeds are generally used as food and matured seeds may be dried and placed in an airtight container for food and seed purposes.

Cadios was not so popular among backyard vegetable gardeners and commercial growers alike; but if we will plant this on a large scale, we could produce this crop in quantities and there will be a great promise for