POT GULTURE OF AFRICAN DAISY AS AFFECTED BY DEFERENT SOIL MEDIA

RESEARCE

Agri - Science Carrionium

THINKS WARRY M. AUSTRIA

DON SEVERAND ACRICULTURAL COLLEGE

laday taybe

March 1988

POT CULTURE OF AFRICAN DAISY AS AFFECTED BY DIFFERENT SOIL MEDIA

A Research Paper Submitted to the Faculty
of Agricultural Science Department
of the Don Severino Agricultural
College, Indang, Cavite

In Partial Fulfillment of the Requirements in Applied Research IV



b**y**

March 1989

ABSTRACT

AUSTRIA, TRISHA MARIE N., Applied Research IV (Agri-Science Curriculum), Don Severino Agricultural College, Indang, Cavite, March, 1989, "Pot Culture of African Daisy as Affected by Different Soil Media."

Adviser: Mr. Alejandro C. Mojica

The study "Pot Culture of African Daisy as Affected by Different Soil Media" was conducted at Barangay IV, Indang, Cavite from July to October 1988 to evaluate the effectiveness of different soil media on the growth and flowering of African daisy.

A total of 300 African daisy suckers purchased from Tagaytay City were arranged in an experimental lot using a Randomized Complete Block Design (RCBD) with ten treatments and three replications. Treatments include: T₁ pure garden soil; T₂ 50% garden soil + 50% chicken manure; T₃ 50% garden soil + 50% cow manure; T₄ 50% garden soil + 50% hog manure; T₅ Tagaytay loam soil; T₆ 50% TLS + 50% chicken manure; T₇ 50% TLS + 50% cow manure; T₈ 50% TLS + 50% hog manure; T₉ 50% garden soil + 50% compost.

Highly significant results were obtained on the average number of days from planting to flowering, average length of flower stalk and average diameter of flower heads. Significant results was also obtained on the average number of flowers per treatment.

It was found out in this experiment that 50% garden soil + 50% compost (Treatment 9) was the best soil medium for growing African daisy. This is due to the nutrients present in the compost, porosity of the soil medium and its greater water holding capacity that makes the African daisies matured earlier, and produced longer stalk and bigger flowers. Plants in 50% garden soil + 50% chicken manure (Treatment 2) exhibited the poorest performance in all of the plant characteristics. Chicken manure contains lot of ammonia which rendered the medium too hot for the plant causing them poor growth.

TABLE OF CONTENTS

ra paga a sa	₃e
BIOGRAPHICAL DATA ii	Li
ACKNOWLEDGEMENT	Ĺν
ABSTRACT	vi
LIST OF TABLES	x
LIST OF APPENDIX TABLES	хi
LIST OF FIGURES	ii
INTRODUCTION	1
Importance of the Study	1
Statement of the Problem	2
Objective of the Study	3
Time and Place of the Study	3
REVIEW OF RELATED LITERATURE	4
MATERIALS AND METHODS	6
Materials	6
Methods	6
Soil Preparation	6
Procurement of Planting Materials	7
Planting	7
Weeding and Cultivation	7
Watering	7
Control of Pests and Diseases	7
Experimental Design	8
Gathering of Data	8

	Page
GENERAL OBSERVATION	10
Percentage Survival	10
Occurrence of Pests and Diseases	10
DISCUSSION OF RESULTS	11
Average Number of Days from Planting to Flowering	11
Average Length of Flower Stalk	13
Average Diameter of Flower Heads	15
Average Number of Flowers per Treatment .	17
SUMMARY, CONCLUSION AND RECOMMENDATION	19
LITERATURE CITED	23
APPENDICES	24
TATIONAG	29

LIST OF TABLES

Table	F	Page
1	Average Number of Days from Planting to Flowering	12
2	Average Length of Flower Stalk	14
3	Average Diameter of Flower Heads	16
4	Average Number of Flowers per Treatment	18

LIST OF APPENDIX TABLES

Table		Page
1a	Analysis of Variance on the Average Number of Days from Planting to Flowering	25
2a	Analysis of Variance on the Average Length of Flower Stalk	26
3b	Analysis of Variance on the Average Diameter of Flower Heads	27
hр	Analysis of Variance on the Average Number of Flowers per Treatment	28

LIST OF FIGURES

Figure	e	Page
1	Experimental Field Lay-out	30
2	General View of the Experiment	. 31
3	View of the Treatments in Replication 1	32
ነ ተ	View of the Treatments in Replication 2	33
5	View of the Treatments in Replication 3	34

POT CULTURE OF AFRICAN DAISY AS AFFECTED BY DIFFERENT SOIL MEDIA 1/

bу

TRISHA MARIE N. AUSTRIA

A research paper presented to the faculty of Agricultural Science Department of the Don Severino Agricultural College, Indang, Cavite, in partial fulfillment of the requirements in Applied Research IV. Prepared under the supervision of Mr. Alejandro C. Mojica, adviser.

INTRODUCTION

Importance of the Study

African daisy (Gerbera jamesonii Hook) is a typical plant extensively grown in Cavite, Batangas, Laguna and other provinces in Region IV. They are perennial herbs with numerous leaves in a rosette at the base of the stem. The flowers are solitary and occur in hairy stalks. The rays are showy yellow, pink, orange and red and they are 5 to 12 cm across. Stem length ranges from 25 to 65 cms. Gerberas are may be in single or double forms.

Gerberas have gained its importance as an