634-44 D37 1994

OVE-SEASON WANCO PRODUCTION USING POTASSIUM NYTRATE

VARM PRACTICE

EDEN C. DEL ROSARIO

Department of Crop Science

DON SEVERINO GRIGUITURAL COLLEGE

Indang, Cavite

April 1994

OFF-SEASON HANGO PRODUCTION USING POTASSIUM NITRATE

A Farm Practice Report
Submitted 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
(Major in Horticulture)

bу

EDEN C. DEL ROSARIO April 1994

ABSTRACT

DEL ROSARIO, EDEN C., DON SEVERINO AGRICULTURAL COLLEGE, Indang, Cavite. "Off-season Mango Production Using Potassium Nitrate." Mrs. Analita M. Magsino (Adviser).

This farm practice project was conducted at Bo. Aguado, Trece Martires City from September 28,1993 to February 12, 1994. It aimed to provide the student with first-hand experience in the off-season production of mango using potassium nitrate and to determine the cost and profitability of the technology.

Three thirty year-old mango trees were sprayed with potassium nitrate at a rate of 10 grams per liter of water. Proper pest and disease prevention and control measures were implemented throughout the duration of the project. Flower development and subsequent fruit set, however, were affected by the occurrence of typhoons and strong winds which prevailed during the second and third month of project implementation.

Twenty (20) royal sized crates (appoximately 42 kilos each) of mature green mangoes were harvested from each tree or a total of sixty (60) crates from the three trees. The harvest was sold at a total price of P 56,350.00.

After deducting the total investment in the project amounting to P 34,167.14 from the gross income, a net income of P 22,182.86 was obtained. A value of 64.92% was computed as the measure of project worth.

TABLE OF CONTENTS

	Page
BIOGRAPHICAL DATA	iii
ACKNOWLEDGMENT	iv
ABSTRACT	vi
INTRODUCTION	
Importance of the Project	2
Objectives of the Project	2
Time and Place of the Project	2
EXPECTED OUTPUT	3
STRATEGY OF IMPLEMENTATION	
Pre-Internship Training	4
Site Selection	4
Tree Selection	4
Weeding/Underbrushing	4
Preparation of Flower Inducer	4
Spraying of Flower Inducer	5
Control of Pests and Diseases	5
Harvesting	5
Sorting/Grading	6
Packing	6
Marketing	6
COST ESTIMATE OF THE PROJECT	7
TIMETABLE OF ACTIVITIES	10

DISCUSSION OF THE PROJECT OUTCOME	11
Actual Cost and Return Analysis	13
SUMMARY, CONCLUSION AND RECOMMENDATION	
Summary	16
Conclusion	17
Recommendation	17
APPENDICES	18

LIST OF FIGURES

Figure		Page
. 1a	Selected 'Pico' mango tree #1	19
1b	Selected 'Pico' mango tree #2	19
1c	Selected 'Pico' mango tree #3	20
2	Samples of Class A and Class B mangoes	21
3	Samples of Class C and Class D mangoes	22

OFF-SEASON MANGO PRODUCTION USING POTASSIUM NITRATE

bv

EDEN C. DEL ROSARIO

Farm Practice Report presented to the faculty of Crop Science, Don Severino Agricultural Department of in partial fulfillment of the College. Indang, Cavite the degree of Bachelor of Science requirements for (BSA), major in Horticulture, under the direct Agriculture (Adviser). Magsino supervision of Mrs. Analita Μ. 94 - 009 Contribution No. _

INTRODUCTION

One of the most important breakthroughs in Philippine early 1970's that discovery in the agriculture the is certain chemicals can effectively induce the flowering mango. Potassium nitrate (KNO3) was discovered an inducing agent for mango in 1970 and 1971, although event paved the of way 1974. The in reported eliminating the irregular, sparse seasonal bearing and habits of Philippine mangoes. Introduction of nitrate based sprays, loosely referred to as "flower inducers" the main stimulus to the growth of the local mango industry.

Spraying with KNO3 is a more reliable method of inducing off-season trees to flower more uniformly and is much cheaper and easier to use. The spray solution is