

**RE-DELINEATION, RE-CLASSIFICATION AND MAPPING THE SOIL SERIES
OF BARANGAY FRANZA, SCIENCE CITY OF MUÑOZ, NUEVA ECIJA**

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ACCEPTANCE SHEET

This undergraduate thesis entitled "RE-DELINEATION, RE-CLASSIFICATION AND MAPPING THE SOIL SERIES OF BARANGAY FRANZA, SCIENCE CITY OF MUÑOZ, NUEVA ECIJA," prepared and submitted by MARJURY HAZEL AQUINO ALFONSO, in partial fulfillment of the requirements for the degree of BACHELOR OF SCIENCE IN AGRICULTURE (SOIL SCIENCE), is hereby accepted:


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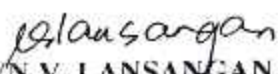

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TABLE OF CONTENTS

	PAGES
LIST OF TABLES	vii
LIST OF FIGURES	viii
LIST OF APPENDICES	ix
LIST OF APPENDIX TABLES	x
ABSTRACT	xi
INTRODUCTION	1
Statement of the Problem	2
Significance of the Study	3
Objectives of the Study	3
Scope and Limitation of the Study	4
Time and Place of the Study	4
REVIEW OF RELATED LITERATURE	5
Soil Survey	5
Soil Series	5
Soil Taxonomy and Classification	6
Soil Map Scale	7
Soil Mapping	7
Digital Soil Mapping	8
Soil Sampling	8
Factors that Control the Distribution of Soils	8
Soil Color	9
Soil Texture	9
Science City of Munoz	10
Barangay Franza	10
Land-Use Planning	11
METHODOLOGY	12
Methodological Framework	13
Map Digitization of Barangay Franza	14
Delineating Boundary of Barangay Franza	14
Identification of Sample Points	14

Plotting of Sample Points	14
Collection of Sample	15
Soil Series Identification	15
Re-delineation of Soil Series and Soil Texture	15
Soil Type Map of Munoz	16
Land Suitability Assessment	17
Production of Map	17
Data to be Gathered	18
RESULTS AND DISCUSSION	20
The Study Area	20
Sampling Points	21
Soil Series of Barangay Franza	22
Soil Type of Barangay Franza	24
Crop Suitability Evaluation	25
SUMMARY, CONCLUSION AND RECOMMENDATION	31
LITERATURE CITED	33
APPENDICES	36

LIST OF TABLES

TABLE		PAGE
1	Data gathered for Soil Series Validation and their respective analysis	18
2	Data gathered for Crop Suitability Evaluation and their respective analysis	19
3	Identified Soil Series in Barangay Franza	23
4	Soil types identified in Barangay Franza	24
5	Suitability Rating for Rice in Barangay Franza	26
6	Suitability Rating of Rice to various Soil Types	26
7	Suitability Rating for Corn in Barangay Franza	29
8	Suitability Rating of Corn to various Soil Types	29

LIST OF FIGURES

FIGURE		PAGE
1	Methodological Framework	13
2	Soil Type Map of Science City of Munoz	16
3	Satellite imagery of barangay Franza previously identified by CPDO	20
4	Identified of the Study Area	21
5	Sampling Points of Barangay Franza	22
6	Soil Series Map of Barangay Franza	23
7	Soil Type Map of Barangay Franza	24
8	Crop Suitability Map for Rice	27
9	Crop Suitability Map for Corn	30

LIST OF APPENDICES

APPENDIX		PAGE
I	Soil Series Identification	36
II	Soil Sampling For Soil Series Identification	37
III	Soil Color Determination	38
IV	Soil pH Determination	39
V	Soil Texture Determination: Hydrometer Method	40
VI	Land Suitability Descriptions	42
VII	Textural Triangle	43
VIII	Crop Suitability Classification	44
IX	Computation for Actual Sampling Points	45

LIST OF APPENDIX TABLES

APPENDIX TABLE		PAGE
1	Soil Sampling Coordinates in each sampling point in agricultural area of Barangay Franza	46
2	Color of the soil at 30-50 cm in every agricultural areas	48
3	Surface Texture	50
4	Soil Series	52
5	Soil Types	54
6	Suitability ratings of existing crops in agricultural areas	56

ABSTRACT

ALFONSO, MARJURY HAZEL A., Department of Soil Science, College of Agriculture, Central Luzon State University, Science City of Muñoz, Nueva Ecija Philippines, **June 2019, RE-DELINEATION, RE-CLASSIFICATION AND MAPPING THE SOIL SERIES OF BARANGAY FRANZA, SCIENCE CITY OF MUÑOZ, NUEVA ECIJA**

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Soil samples from a total of 50 sample points were collected covering an area of 297.83 hectares devoted for agriculture within Barangay Franza Science City of Muñoz. This was done in order to re-delineate the soil series in Science City of Muñoz particularly in barangay Franza; to assess the suitability of crops that are most important in Nueva Ecija and in adjacent provinces; and to produce soil series and soil surface texture maps in a scale of 1:25,000.

It was found that there are three soil series and five soil types within the agricultural areas in barangay Franza namely; Sibul Clay, Sibul Clay Loam, Umingan Clay Loam, San Fabian Clay and San Fabian Clay Loam. These areas were previously identified and declared as Maligaya clay loam. Also, it was found that the rice suitability of the agricultural areas in the barangay Franza is marginally suitable in San Fabian clay, San Fabian clay loam Umingan clay loam, Sibul clay, and Sibul clay loam with major limitation in rooting condition. Limitation in rooting condition may be addressed through addition of Organic Matter to improve soil fertility.

Corn is marginally suitable in Umingan clay loam, San Fabian clay loam, Sibul clay loam, Sibul clay, and San Fabian clay due to its limitation in nutrient availability and rooting condition.

No Maligaya Clay Loam was found in barangay Franza as previously published by BSWM using a map at a reconnaissance level of survey.

Keywords: Soil Types, Soil Series, Crop Suitability

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