

UNIVERSITY TEKNOLOGI MARA

**DISTRIBUTION ANALYSIS OF FARMER
ENTREPRENEUR (MADA) IN KEDAH AND PERLIS**

MUHAMMAD ADHWA SYAHMI BIN MD TAIB

Thesis submitted in fulfilment of the requirements for the degree of

Bachelor in Surveying Science and

Geomatics (Hons)

Faculty of Architecture, Planning and Surveying

JANUARY 2020

AUTHOR'S DECLARATION

I declare that the work in this thesis was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work unless otherwise indicated or acknowledged as referenced work. This thesis has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for Under Graduate, Universiti Teknologi MARA, regulating the conduct of my study and research.

Name of Student : Muhammad Adhwa Syahmi Bin Md Taib
Student's ID No : 2015263768
Programme : Bachelor of Surveying Science and Geomatics
(Hons)
Project/Dissertation Title : Distribution Analysis of Farmer Entrepreneur
(MADA) in Kedah and Perlis
Signature and Date :

Approved by:

I certify that I have examined the student's work and found that they are in accordance with the rules and regulation of Department and University and fulfills the requirement for the award of the degree of Bachelor of Surveying Science and Geomatics (Honour's)

Name of Supervisor : Madam Nazirah Md. Tarmizi
Signature and Date :

ABSTRACT

Muda Agricultural Development Authority (MADA) is the organization that manage and store the data files that involve with the name of the farmer that register under MADA, address of the agricultural activity that been undertaken by the farmer, and others. MADA requires database that integrate with spatial data as well. But, MADA lack of spatial data in terms of locating the farmer activities that register under MADA in Kedah and Perlis. This research was conducted at Perlis and Kedah within the region of MADA. This project aim is to show the distribution of farmers activities in Kedah and Perlis by utilizing of GIS. To achieve the aim, several objectives included which is to plot the activities of farmer entrepreneur of Agro-based and identify the distribution of farmer activities in Kedah and Perlis. Database of Agro Based Entrepreneur Activities and Agro Based Industry Entrepreneur is collected. This study method was used the Hotspot Analysis were made to determine the density of farmer activities either high or low activities in particular area of Kedah and Perlis. Buffer Analysis also been utilized by buffering the main town of Kedah and Perlis within 8 km of radius. Total activities that fall inside of the buffer of main town has been count in order to know which town has the highest or lowest farmer activities. Geographic Information System application was used to utilizing the hotspot map. In conclusion, this study will contribute to the improvement data management for MADA in term of locating the farmer activities using maps.

TABLE OF CONTENT

	Page
CONFIRMATION BY PANEL OF EXAMINERS	i
AUTHOR'S DECLARATION	ii
SUPERVISOR'S DECLARATION	iii
ABSTRACT	iv
ABSTRAK	v
ACKNOWLEDGEMENT	vi
TABLE OF CONTENT	vii
LIST OF TABLES	x
LIST OF ABBREVIATIONS/ NOMENCLATURE	xii
CHAPTER 1: INTRODUCTION	1
1.1 Research Background	1
1.2 Problem Statement	2
1.3 Aim and Objectives	3
1.4 Significant of study	3
1.5 Scope and Limitation Study	3
1.6 Study Area	5
1.7 Chapter Outline	6
CHAPTER 2: LITERATURE REVIEW	8
2.1 Introduction	8

CHAPTER 4: RESULT AND ANALYSIS	35
4.1 Introduction	35
4.2 Create the database	35
4.3 Hotspot analysis of Agro based Entrepreneur and Agro based Industry Entrepreneur activities in Kedah and Perlis	39
4.4 Buffer Analysis of Agro based Entrepreneur and Agro based Industry Entrepreneur activities in Kedah and Perlis to town center	42
4.5 Summary	45
CHAPTER 5: CONCLUSION	46
5.1 Introduction	46
5.2 Conclusion	46
5.3 Recommendations	46
5.4 Summary	47
REFERENCES	48
APPENDICES	50