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وزارة التعليم العالي والبحث العلمي
جامعة بابل
كلية التربية صفي الدين الحلي
قسم الجغرافية

التمثيل الكارتوكرافي لاستعمالات الأرض الزراعية في قضاء المسيب باستعمال نظم المعلومات الجغرافية (GIS)

رسالة تقدم بها

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الى

مجلس كلية التربية صفي الدين الحلي – جامعة بابل وهي جزء من متطلبات
نيل درجة الماجستير في الجغرافية

باشراف

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Abstract

The cartographic representation of the agricultural land uses in Al-Musayab District by using Geographical Information Systems (GIS)

No doubt, cartography is of a great importance in the geographical scientific studies. It is a science, an art and a technique of structuring maps and all things related to it. The concept of the map is regarded as a scientific and artistic development of the human experience along centuries.

The geographical distributions are represented by the qualitative distribution maps and the quantitative distribution maps (statistic). It is represented by symbols (dot, hyphenic and areal). These ways differ in representation and the ways followed in their designs.

The study deals with the uses of the agricultural land areas and its applications in Al-Musayab District by using a group of Geographical Information Systems (GIS). The study depends on the following predicaments:

The first predicament: (A map can take a data of place in the form of symbols). They are: (dot, linear and areal) a place pattern expressing the position of the phenomenon (quantitative and qualitative) represented by distributive maps).

The second predicament: (The tremendous quantities of information and its natural and human variety requires an efficient technique helping in constructing them in a form of maps).

The third predicament: (Geography studies both the natural and human factors).

To answer these questions and performing the target of the study. The study has passed many stages starting with collecting information, statistic data about the region under study represented by: reference books, researches, studies, reports, the formal statistic data, maps and special photos.

This study includes two parts: The first part represents the theoretical aspects. It includes an introduction, three chapters, conclusions and recommendations. The introduction consists of: the problem, the hypothesis and the limits of the study region.

The first chapter deals with theoretical frame. The second chapter is devoted to study the natural and human factors and their display in maps and its effects in using the agricultural land areas. The third chapter studies the geographical distribution maps in using the agricultural land areas and the applications in Al-Musayab District. It has about (71) maps representing the natural and human aspects and the use of the agricultural land areas and the applications in Al-Musayab District including the distribution of the statistic data of the use of the agricultural land areas.

The study concentrates on the importance of using the Geographical Information Systems (GIS) in converting statistic data into maps to know rapidly the quantitative aspects of these data and to compare among the planted land areas of crops of different in the region understudy, and finding the causes that led to this difference and associate them with the natural and human factors.

The study also concentrates on the importance of using the Geographical Information Systems (GIS) in preparing and constructing the general maps of using land areas and the private maps of using the agricultural land areas.