

High-standard Farmland Project Area Arable Land Quality Level Evaluation

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Abstract

The main task of the other evaluation is: according to the selected division leveling factors, the relevant map data combined with the field investigation, according to the division level line line, the boundary of the level must be determined in accordance with the principle of obvious disagreement on the spot to determine the space of each unit. Distribution position and boundary.

Keywords

Farmland; Quality Level; Land Engineering.

1. Introduction

Strictly follow the basic ideas, technical routes, and methods of "GB/T28407-2012) and" Annual Update and Evaluation of the County-level Work Manual "(GB/T28407-2012) and" Shaanxi Provincial arable Land Quality and other annual renewal evaluations of county-level workbooks "to carry out the land of Shaanxi Province Engineering Construction Group's 2022 central budget high -standard farmland demonstration construction project (Qishan area) has been evaluated.

1.1. Inheritance Principle

Make full use of Qishan County's existing cultivated land quality and other renewal evaluation results. The basic parameters, division and other factors such as the indicator system and hierarchical standards of cultivated land, etc. Ensure the comparability of results.

1.2. Comprehensive Principles

Based on the effects of light temperature, climate, terrain landforms, soil, human activities and other factors on the quality of cultivated land.

1.3. Principles of Stability

Considering the characteristics of high -standard farmland projects, the quality of high -standard farmland project areas and the quality of farmland projects should be evaluated according to the conditions of long -term cultivation and relatively stable fertility cultivation to ensure the scientific, current and comparability of the results.

2. Evaluation Route

Based on the "GB/T28407-2012) and" GB/T33469-2016) standards in accordance with the "GB/T28407-2012) standards, based on the results of the 2020 land use status change survey,

the arable land within the scope of the project construction area is As an assessment unit, the plot is carried out by high -standard farmland project arable land. First, the basic situation of analysis and research project area, finding the county points of the project area and other factors, as well as the standard farming system and designated crops, determine the production potential index of light temperature (climate), maximum output, output ratio coefficient, and maximum "output -output - Cost "index and other factors and its weights," designated crops -division and other factors -natural quality division "score rules table. Second, according to the basic data such as the collection of project implementation plans, the quality of cultivated land quality, and repair projects collected, combined with field surveys, calculate the natural quality division of cultivated land in the project area, combined with the land use coefficient and economic coefficient, calculate the index of nature, use and other indexes, utilization and other indexes, and use Economy and other indexes, dividing nature in the province, utilization, etc., and economy. Third, the use of the exponential conversion coefficients of Shaanxi Province, determine indexes such as nature and other indexes, and other indexes, and divide national nature and other, national utilization, etc., and national economy. Fourth, the weighted average method is used to calculate the average use of the country arable land in the project area. Fifth, check and verify the results of the project area arable land, etc., and finally determine the results of project cultivated land. Preparation of project area arable land and other evaluation reports, establish a database such as cultivated land, and compile a cultivated land. The detailed work steps are as follows:

- (1) According to the indicator area where the project area is, determine the relevant parameters and division and other factors such as the quality of the project area;
- (2) Surveys on the field of foreign industry, collect information;
- (3) Dividement and other units;
- (4) Determine the index value of each division of the division;
- (5) Calculate the natural quality division of the crops of each division;
- (6) Calculate the index of natural quality and other units;
- (7) Determine the use of land utilization coefficients, calculate points and other units and other indexes;
- (8) Determine the economic coefficient of land, calculate points and other units economic index;
- (9) Adopt equal pitch methods, divide points such as division and other units of cultivated land at the provincial level (three equal);
- (10) Calculate the national index (three indexes) of the unit (three indexes);
- (11) Calculate the national level of the unit (three waiting);
- (12) Calculating the area of the project area with an area of the average use of the index and other unifications;
- (13) Achievement test;
- (14) Establish a database such as the quality of cultivated land;
- (15) Production and other pictures;
- (16) Information report;
- (17) Submission of results.

3. Evaluation Method

According to the results of the existing cultivated land quality of the county -level administrative region where the high -standard farmland project is located, combined with relevant information such as the project area implementation plan, determine the basic parameters, evaluation factors, factors, factors, factors, factors, and factors such as the quality

of arable land construction. The graded standards and corresponding weights, in accordance with the "GB/T28407-2012) in accordance with the" Agricultural Land Quality Fortune Regulations "(GB/T28407-2012), use the" factor method "to evaluate the quality of new arable land and construction projects in high standard farmland.

The so -called "factor method" refers to the main factors of agricultural land itself and the level of land productivity and operating factors. Through the calculation of the parameters of various divisions, the agricultural land is determined. Relevant information involved in the "Factors" and other information such as soil, terrain, cultivated land production, production costs, etc. are easy to obtain. The calculation procedures are simple and the method is easy to master. It is a method that is usually used in agricultural land division.

4. Achievement Application Suggestions

Through the evaluation of the quality of the project area, the quality of the project area, and the formation of quality and other systems, so as to be able to intuitively reflected in the current map of the land use of agricultural land, and in general to control the comprehensive quality distribution of cultivated land. The district provides scientific and reasonable technical support.

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