

Gis Based Crop Suitability And Climate Change

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The approach proposed, the spatial distribution of land based on suitability, is founded on the multiple-criteria decision-making method of four parameters; soil texture, temperature, land use, and slope. The duration of the length of crop season was simulated using the concept of growing degree days.

GIS-Based Land Suitability and Crop Vulnerability ...

productivity of the land is limited. Several GIS-based land suitability analyses have been developed, such as fuzzy evaluation and the Boolean overlay [5,6]; however, climate suitability has not been su ciently addressed. Temperature is a main climatic driver that a ects the crop growth rate. The warmer temperatures

GIS-Based Land Suitability and Crop Vulnerability ...

Physical land suitability maps were generated for the major cereal crops. The optimum vector overlay analysis results revealed that from the total area, 15,298 ha (20.34%) and 12,494 ha (16.8%) is highly suitable and moderately suitable for all teff, wheat, barley, and maize crop production, respectively. The remaining area has

GIS and remote sensing-based physical land suitability ...

Geographic Information Systems and fuzzy inference systems hold great promises for improving convenience and accuracy of using spatial data, more productive analysis, and enhanced data access. It is highly essential to find an optimal land for individual crop production to increase yield and achieve optimum productivity of the area, ensure sustainable environment and output, and improve resource management.

GIS-based agro-ecological zoning for crop suitability ...

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Gis Based Crop Suitability And Climate Change ...

Gis Based Crop Suitability And The methodology used for land suitability evaluation was the MCE based on FAO (1976) guidelines involving matching of diagnostic land quality against crop requirements and assigning suitability rates for each land quality factors. Each thematic layer in MCE represents a criterion for the land

Gis Based Crop Suitability And Climate Change

Crop-land suitability analysis is a prerequisite to achieve optimum utilization of the available land resources for sustainable agricultural production. Land evaluation and crop suitability...

(PDF) CROP/LAND SUITABILITY ANALYSIS BY ARCGIS TOOLS

of the crop and the quality and characteristics of land. The methodology combined climate, land quality attri-butes that most influence crop suitability (long term), and topographical data (slope and altitude). It presented a GIS-based land suitability model based on the Simple Limitation Approach. In order to determine an optimum land use type for

Multi-criteria land evaluation for suitability analysis of ...

The major objectives of the present study are: A] To develop a GIS based approach for land suitability assessment of two food crops namely rice and wheat, which will assist land managers and land use planners to identify the areas with pedological constraints for rice

Land Suitability Assessment for Crop Cultivation by Using ...

The methodology used for land suitability evaluation was GIS-based multi-criteria evaluation following FAO (1976) guidelines involving matching diagnostic land qualities against crop requirements and assigning suitability rates for each land qualities.

A GIS based land suitability analysis for sustainable ...

This paper based on GIS land suitable assessment principle and method, use supermap to analysis suitability of crop land of liao city. The suitability of comprehensive analysis was conducted in Study area for three crops .First, choosing representative and having the same impact the suitability of natural factors and social economic factors of the three kinds of crops; Then, interpolation and empowerment of overlap and analysis in supermap, and the appropriate level of land were classified ...

Research in Crop Land Suitability Analysis Based on GIS ...

In this paper, we report on a GIS-based multi-criteria approach to land suitability evaluation for pineapple production in the Akwapim South Municipality of Ghana. The crop is an important export earner, having contributed significantly to foreign exchange receipts of the counfly since the 1980s, although its cultivation has also increased land use conflicts and aggravated land degradation.

Land Suitability Assessment for Pineapple Production in ...

Land suitability evaluation for sustained crop production involves the interpreta-tion of data relating to soils, vegetation, topography, climate, etc., during an e[ffort to match the land characteristics with crop requirements (Wang et al., 1990). Based on the suitability of land characteristics to di[fferent crops, the Food and Agricultural

GIS-based fuzzy membership model for crop-land suitability ...

methodology was demonstrated using GIS-based multi-criteria land suitability evaluation for rainfed cropland in Ibb Governorate, Republic of Yemen. 2.3 Spatial modelling with GIS According to Burrough & McDonnell (1998), value of using GIS is recognized through its providence of a

GIS -Based Sensitivity Analysis of MultiCriteria Weights ...

In this research, the GIS-based spatial MCA among the Analytical Hierarchy Process (AHP) method has employed. The approach was enhanced for each criterion which as soil, topography and vegetation. The opinions of agronomist experts and a literature review helped in identifying criteria (soil data, topography, water and vegetation data) that are necessary to determine areas suitable for crops.

ISPRS-Archives - A GIS-BASED MULTI-CRITERIA ANALYSIS ON ...

GIS-based agro-ecological zoning for crop suitability using fuzzy inference system in semi-arid regions Jafar Nabatia,*, Ahmad Nezamib, Ehsan Neamatollahia, Morteza Akbaric a Legume Department, Research Center for Plant Sciences, Ferdowsi University of Mashhad, Mashhad, Iran

GIS-based agro-ecological zoning for crop suitability ...

Malczewski J: GIS-based land-use suitability analysis: a critical overview. Pro Plann 2004, 62 (1):3-65. 10.1016/j.progress.2003.09.002 Article Google Scholar

GIS-based multi-criteria analysis for land use suitability ...

GIS-based land suitability evaluation for rapeseed oil crop Abdollah Ghasemi Pirbalouti Researches Centre of Medicinal Plants & Ethnoveterinary , Islamic Azad University, Shahrekord Branch, POBox ...

Computer and Computing Technologies in Agriculture Multicriteria Decision Analysis in Geographic Information Science Guidelines: Land Evaluation for Irrigated Agriculture Sustainability of Irrigated Agriculture Sustainable Urbanization Gis & Rs Based Fertilizer Suitability Mapping for Wheat,Ethiopia Multi-purposeful Application of Geospatial Data Computer and Computing Technologies in Agriculture IV Trends in Civil Engineering and Challenges for Sustainability Sustainable Management of Land Resources Land Evaluation Guidelines Sustainable Development Practices Using Geoinformatics GIS and Multicriteria Decision Analysis The Souss-Massa River Basin, Morocco Ecosystem Services and Carbon Sequestration in the Biosphere Fuzzy Mathematical Approach to Pattern Recognition Integrated Nutrient Management (INM) in a Sustainable Rice-Wheat Cropping System Ecosystem Services and Tropical Soils of India African Handbook of Climate Change Adaptation Copyright code : c24b76c08f5d1ddf151103d96f4f7cf3