Remote Sensing Crop Yield Estimation And Agricultural

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Remote Sensing Crop Yield Estimation

Abstract. Spatial variability of energy fluxes calls for remote sensing-based approaches for mapping of fluxes, especially for larger areas. Cumulative consumptive use of water by crops can be related to crop yield with the help of remotely sensed data and surface energy balance models.

Crop Yield Estimation Using Remote Sensing and Surface ...

Two methods for estimating the yield of different crops in Hungary from satellite remote sensing data are presented. The steps of preprocessing the remote sensing data (for geometric, radiometric ...

(PDF) Crop yield estimation by satellite remote sensing

The prestigious journal Agricultural and Forest Meteorology (IF 4.651)(ISSN 0168-1923) is currently running a special issue entitled "Advances in Remote Sensing for Crop Yield Estimation". As we are acting as guest editors for this issue, we would like to welcome contributions from various disciplines.

Call for Papers on Special Issue: Advances in Remote ...

The introduction of remote sensing in agricultural monitoring makes accurate estimation of regional crop yields possible. However, remote sensing images and crop distribution maps with coarse ...

(PDF) Maize crop yield estimation with remote sensing and ...

Numerous efforts have been made to develop various indices using remote sensing data such as normalized difference vegetation index (NDVI), vegetation condition index (VCI) and temperature condition index (TCI) for mapping and monitoring of drought and assessment of vegetation health and productivity. NDVI, soil moisture, surface temperature and rainfall are valuable sources of information for the estimation and prediction of crop conditions.

Crop yield estimation model for Iowa using remote sensing ...

Within the STARS project, high resolution soil surveys coupled with hyperspectral remote sensing data were combined to estimate the spatial variability of grain yield prior to harvest period. Rodrigues et al. (2015) mapped the within-field yield variability in a wheat field in Mexico using high resolution proximal soil sensing and hyperspectral RS data.

Yield estimation - STARS Project

Remote sensing satellite data can also be used for improving the crop yield estimation through crop

cutting experiments and also for developing models for crop yield using historical data, meteorological data, and remotely sensed satellite data. This may lead to the development of an efficient integrated system for crop statistics like crop acreage estimation, crop yield estimation and crop yield forecasting.

USE OF REMOTE SENSING SATELLITE DATA IN CROP SURVEYS ABSTRACT

Remote-sensing based rice yield estimation system involves two key modules: (1) MAPscape-Rice and (2) ORYZA2000 (Fig. 1). MAPscape-Rice is the interface from satellite- based observation data into SAR products such as rice area estimates, start of season (SoS), phenological field status, and leaf area index (LAI).

Remote Sensing based Crop Yield Monitoring and Forecasting

Reflectance modeling: Remote sensing technology is just about the only technology that can provide data on crop reflectance. Crop reflectance will depend on the amount of moisture in the soil and the nutrients in the crop which may also have a significant impact on the overall crop yield. 18.

Remote Sensing Applications in Agriculture – Grind GIS-GIS ...

and Remote Sensing, a section of the journal Frontiers in Environmental Science Received: 25 February 2020 Accepted: 26 May 2020 Published: 18 June 2020 Citation: Karlson M, Ostwald M, Bayala J, Bazié HR, Ouedraogo AS, Soro B, Sanou J and Reese H (2020) The Potential of Sentinel-2 for Crop Production Estimation in a Smallholder Agroforestry ...

The Potential of Sentinel-2 for Crop Production Estimation ...

In turn, grain yield was the most complex agronomic parameter for modeling, with correlations of 0.70 and 0.92 for training/testing, and excellent results in other statistical tests, reinforce the great combining capacity between remote sensing via RPAS and machine learning (ML) in applications

aimed at precision agriculture.

Estimation of soybean yield from machine learning ...

The agricultural application of satellite Remote Sensing technology requires a quantitative processing of satellite Remote Sensing data with high accuracy and reliability. For yield prediction and estimation of crops it is necessary to achieve a very high accuracy and reliability.

Crop Yield Estimation by Satellite Remote Sensing ...

Staple crops are grown by millions of smallholder farmers yet estimating field-level yields over broad regions can be challenging. Furthermore, agricultural productivity can be impacted by nearby forests and trees. In an agricultural-forest mosaic in Southern Ethiopia, we used remote sensing imagery to identify and differentiate among dominant crops and assess the impact of nearby forest ...

Frontiers | Forest Edges Near Farms Enhance Wheat ...

Pakistan started developing crop area estimation procedures and crop yield models, based on the application of satellite remote sensing, GIS technology, agronomy, agro-meteorology, statistics and other allied disciplines. Conventionally, Crops area estimation system traditionally is based on Village

Satellite Remote Sensing and GIS based Crops Forecasting ...

The vegetation index (VI) has been successfully used to monitor the growth and to predict the yield of agricultural crops. In this paper, a long-term observation was conducted for the yield prediction of maize using an unmanned aerial vehicle (UAV) and estimations of chlorophyll contents using SPAD-502. A new vegetation index termed as modified red blue VI (MRBVI) was developed to monitor the ...

Sensors | Free Full-Text | Modified Red Blue Vegetation ...

Our objective was to determine the validity of using in-season estimates of grain yield (INSEY) and a response index (RI) to modulate N at 1-m 2 spatial resolution. Four winter wheat field experiments were conducted that evaluated prescribed midseason N applications compared with uniform rates that simulated farmer practices.

Improving Nitrogen Use Efficiency in Cereal Grain ...

of high spatial resolution remote sensing images due to climate conditions, a new optimization model. was created. Crop yield estimation is improved and its precision is increased based on the new model. that includes the use of the energy balance equation. To verify the results of the crop yield estimation.

Toward Precision in Crop Yield Estimation Using Remote ...

Two methods for estimating the yield of different crops in Hungary from satellite remote sensing data are presented. The steps of preprocessing the remote sensing data (for geometric, radiometric, atmospheric and cloud scattering correction) are described. In the first method developed for field level estimation, reference crop fields were selected by using Landsat Thematic Mapper (TM) data for classification.