

## **Remote sensing applications for predicting crop yields (On example of the municipal district of the Republic of Tatarstan)**

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### **Abstract**

© 2016, International Journal of Pharmacy and Technology. All rights reserved. Result of developed methodology is a forecasting of yield of grain crops on the basis of space monitoring and modeling of bioproductivity. To perform this task, it is recommended to use space scanner images of medium resolution data and daily defined weather stations. Based on space images processing site observations of Earth's natural resources by Glovis parameters of plants such as biomass, leaf area index, monitoring the condition of crops from planting to harvesting is carried out, an advanced estimation of the yield and determination of optimum time of harvesting of grain crops is given.

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### **Keywords**

Biomass, Crop, Remote sensing, Satellite Images, Satellite system, Software, Spring wheat, Yield