

Use of Geo-Informational Systems for the Russian Agriculture Census

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Abstract: The paper discusses the difficulties in introducing geo-informational system technologies in agriculture in the Russian Federation. Monitoring of farmlands based on remote sensing data taken from space satellites is reviewed as a tool to estimate and forecast the impact of weather and climate conditions on crops performance. This approach has been confirmed by long-term positive practical experience of using remote sensing in the United States and other countries. These technologies were used to prepare and carry out the Agricultural Census in Russia in 2006 as well as to publish the census data. The paper describes the results of the work aimed at GIS introduction and adaptation to the farming industry carried out by the Main Computing Centre of the Russian Ministry of Agriculture in 2003-2007.