

农田墒情监测预报和抗旱信息系统设计与实现

Monitoring and forecasting of farmland soil moisture regime and development of drought-relief information system

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中文摘要:

为提高农业生产的抗旱减灾信息化水平, 减少农作物因干旱和灌水不及时所造成的经济损失, 该文把墒情预报技术与信息技术结合起来, 采用WebGIS、动态交互网页、网络数据库技术, 设计并开发了安徽淮东北地区墒情监控和抗旱信息系统, 实现了墒情、雨水情、农工情信息的网络化存储、发布、查询及统计图表自动生成。系统界面直观, 实用性和操作性强。

英文摘要:

To improve the drought-relief information level of agricultural production and reduce the economic loss of crops caused by drought and delayed irrigation, the technique of monitoring-forecasting and information technology, the technique of WebGIS, Web interaction and internet database were comprehensively employed to develop the soil moisture content monitoring and predicting and information system for fighting drought to reduce natural disasters for Huaibei Area of Anhui Province. The information operations of the internet storage, release, inquiry and the automatic printing of statistical graphs of moisture and drought regime, rainfall regime and laboring regime in North Huai River of Anhui were realized. The system interface is friendly and it has more practicability and maneuverability.

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