

## 黑龙江省大豆生产管理决策支持系统 (SPMDSS) 的研制

### DESIGNING A SOYBEAN PRODUCTION MANAGEMENT DECISION SUPPORT SYSTEM (SPMDSS) FOR HEILONGJIANG PROVINCE, P. R. C.

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中文摘要:

本文扼要地论述了研制黑龙江省大豆生产管理决策支持系统 (SPMDSS) 的必要性和可能性。SPMDSS 的主要步骤和内容: (1) 根据 92 个气象站资料和 80 个县的生产数据, 分别建立自然资源和农业生产的数据库; (2) 建立相应的模型库 (方法库); (3) 用多级菜单驱动程序, 建立用户接口。本研究用模糊聚类方法建立了大豆区划模型, 把全省的大豆生产分为最适宜、较适宜、适宜 (东南片)、适宜 (西北片)、不适宜和最不适宜六个地区, 用柯布-道格拉斯生产函数按各区条件分别算出各区的大豆生产模型。最后展望了 DSS 应用前景。

英文摘要:

This paper discusses briefly the necessity and feasibility of designing a Soybean Production Management Decision Support System (SPMDSS) in Heilongjiang province, PRC. The main steps and contents in designing SPM DSS are formulated as follows: (1) According to the data collected from 92 meteorological stations and the productivity factors in 80 counties of Heilongjiang Province, the DB of natural resources and agricultural production are built respectively. (2) The MB is built with the computer program combined. (3) A multi-level menu driven user interface is then performed, six soybean production regions are divided for Heilongjiang province using Fuzzy division method, The six regions are as follows: most suitable, more suitable, suitable (southeast district) - suitable (northwest district), unsuitable and most unsuitable regions. Six soybean production models are made according to the different regional conditions using Cobble-Douglas production functions. Finally, the paper concludes with the application trend of DSS in Heilongjiang province.

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