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微信公众号：大豆科学

基于ArcGIS Desktop的大豆田间处方图生成方法的研究

Title:	Research on Prescription Generation Method of Soybean Production Based on ArcGIS Desktop

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摘要： ?通过对比国内外相关研究，研究了基于GIS平台建立大豆田间处方生成方法。选取采集于黑龙江红星农场120个采样点的土壤养分数据，利用Kriging插值法绘制土壤养分分布图。在此基础上，利用ArcGIS Desktop平台的内嵌空间分析模块进行插值分析获取处方图。通过实验证明，基于GIS平台建立的大豆处方图能够有效分析土壤养分与产量的相关性，并在短期决策上实现增产的目的。

Abstract: ?By comparing relative research, this paper studied soybean prescription generation method in the field based on the GIS platform.The experiment chose 120 soil samples data from Hongxing Farm in Heilongjiang province.Then made soil nutrient distribution map by Kriging interpolation method.On this basis, established prescription map based on embedded spatial analysis module of interpolation analysis in ArcGIS Desktop platform.This method could analysis the relationship between soil nutrient and soybean yield, which showed that soy prescription map based on GIS platform could achieve production goals in short term decisions.