

研究报告

作物品种试验数据预处理系统的设计与实现

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摘要:

以作物品种区域试验为代表的品种性能测试,是决定品种利用价值和适宜推广区域的重要依据。每年都有大量新数据产生,然而大量的人工操作常常造成录入错误,加之某些育种人员急功近利的心态,不时篡改数据,使得数据质量难以保障;而且传统的试验数据往往基于Excel进行管理和分析,无法对数量庞大的试验数据进行批量校正和逻辑判断等预处理工作,这给后期的品种评价与决策的准确性带来极大隐患。基于此,利用现代信息化处理手段,开发了作物品种试验数据预处理系统,最大限度的排除错误数据,甚至假数据,为进一步的试验评价、品种评价等分析决策提供优质、可靠的数据支持。该系统现已在北京金色农华、北京德农等大型种子企业运行试用,收到很好的应用效果。

关键词: 作物品种试验;数据预处理;品种评价

Design and Realization of Pre-treatment System for Crop Variety Experimental Data

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Abstract:

Trial, represented by regional crop variety performance test, is one of the most important bases to determine the species value and suitable extension areas for crop variety. Large scale data are produced each year, but a mass of manual operation often causes input errors. In order to get reward in a short period of time, some breeders tamper with the data at times, making it difficult to protect the data quality. Further more, the traditional experimental data are managed and analyzed through Excel. It is unable to correct and logically judge the data by big amount. This brings about a great deal of hidden danger to variety evaluation at late stage and accuracy of policy decision. In order to introduce a change, this paper adopts modern information processing means to develop a pre-processing system for crop varieties and their test data, so as to eliminate wrong or even false data with maximum. Thus, superior and reliable data can be provided for further experimental and varietal evaluation, analysis and decision making. This system is being run in trial at some large scale seed companies, such as Jinsenonghua and Beijing Denong. Good application results have been achieved.

Keywords: crop varietal trial pre-treatment of data varietal evaluation

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