中国农学通报 2011, 27(第5期3月) 1-5 DOI: ISSN: 1000-6850 CN: 11-1984/S

本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

农学-研究讲展

两系杂交稻现代安全繁殖制种技术研究进展

唐文帮1王建龙2陈立云2

1. 湖南农业大学水稻科学研究所

2.

摘要:

此文论述了两系杂交稻现代安全繁殖制种的重要意义,提出两系不育系育性转换起点温度偏高及其"遗传漂 变"、制种基地选择和季节安排不合理、不育系繁殖产量不稳定等是目前两系安全繁殖制种中存在的主要问题, 指明选育实用光温敏核不育系、加强"核心种子"生产、利用"低温繁殖有效积温原理"进行安全高产繁殖、基 于种子生产基地气象决策支持系统有效地选择制种基地和时段等是解决问题的主要技术措施。

关键词: 两系杂交稻; 安全; 繁殖制种; 技术

Advances in Induced Technology of Modern Safe Seed Breeding and Hybrid Seed Production of Two-line Hybrid Rice

Abstract:

The significance of modern safe seed breeding and hybrid seed production of two-line hybrid rice were discussed, the high fertility conversion temperature, "genetic drift", the selection of seed production bases, the unreasonable arrangements of seed production seasons and the unstable output of TGMS line reproduction were the major problems existed in the safe seed breeding and production of two-line 🕨陈立云 hybrid rice which were proposed in this paper. The selection of practical TGMS line, the strengthen of "core seed" production and using the principle of "low temperature breeding and effective temperature accumulation" were specified, which were used to security high-yield breeding of two-line hybrid rice. The weather decision support system of hybrid seed production base was based for effective chosen the hybrid seed production base and the production time which was the main technical measurements for solving the problems above.

Keywords: two-line hybrid rice security seed breeding technology

收稿日期 2010-07-17 修回日期 2010-09-06 网络版发布日期 2011-03-25

DOI:

基金项目:

国家863计划项目:农业科技成果转化资金项目

通讯作者: 唐文帮 1湖南农业大学,长沙410128; 2湖南金健种业有限责任公司,湖南常德15000

作者简介:

作者Email: tangwenbang@yahoo.com.cn

参考文献:

本刊中的类似文章

Copyright by 中国农学通报

扩展功能

本文信息

- Supporting info
- PDF(655KB)
- [HTML全文]
- ▶参考文献[PDF]
- 参考文献

服务与反馈

- ▶ 把本文推荐给朋友
- 加入我的书架
- ▶加入引用管理器
- ▶ 引用本文
- Email Alert
- ▶ 文章反馈
- ▶浏览反馈信息

本文关键词相关文章

两系杂交稻;安全;繁殖制 种: 技术

- 唐文帮
- ▶王建龙

PubMed

- Article by Tang, W.B
- Article by Yu,J.L
- Article by Chen, L.Y