

研究论文

# 土壤生态条件与水稻秧苗抗寒能力的关系研究

蒋彭炎, 洪晓富, 丁茂千, 聂志斌, 黄祖祥, 卓三头

浙江省农业科学院, 浙江杭州, 310021

收稿日期 1998-9-25 修回日期 1999-5-6 网络版发布日期 接受日期

**摘要** 以早杂89A-华联2号供试, 利用山区不同海拔高度的农业气候条件, 研究了在苗床不同生态条件(床土、氮肥、水分)下育成的秧苗抗寒能力。结果表明:早育秧的抗寒能力普遍增强。在五天平均日均温13.6℃的情况下, 死叶率比湿育秧减少15.7%~16.9%;在五天平均日均温15.4℃的情况下, 栽后新出叶的生长障碍比湿育秧明显减轻;分蘖发生的起始温度为17.0-17.5℃, 比湿育秧低1℃。在相同早育条件下, 适当追施化学氮肥, 控制苗床水分, 也有利于提高秧苗素质, 增强抗寒能力。最后就增强秧苗抗寒能力的适宜生态条件作了某些探讨。

**关键词** [土壤生态条件](#) [水稻](#) [早育秧](#) [抗寒能力](#)

分类号

## Studied on the Relationship of Soil Ecological Condition and Anti-cold Ability of Rice Seedlings

Jiang Pengyan, Hong Xiaofu, Din Maogan, Nie Zibing, Huang Zhuqiang, Jue Shantou

Zhejiang Academy of Agricultural Sciences, Hangzhou, 310021

**Abstract** With early hybrid rice 89A-hualian 2 as test variety. the anti-cold ability of rice seedlings that were raised on the seedling bed with different ecological conditions (soil, nutrient water) was studied under conditions of agricultural climate with different height above sealevel Results showed that anti-cold ability of dry-raised seedlings were stronger than that of wet-raised seedlings. When average dairy temperature of five days was 13.6℃, the rate of dead leaves of dry-raised seedlings was reduced by 15.7%-16.9% than that of wet-raised seedlings. When the temperature was 15.4℃, the new leaves growth obstruction of dry-raised seedlings after transplanting was obvious lightened than that of wet-raised seedlings. The range of temperature was 17.0-17.5℃ for dry-raised seedlings to begin tillering. This temperature was lower 1℃ than for wet-raised seedlings to begin tillering. The quality and anti-cold ability of seedlings were enhanced by applying nutrient fertilizer and controlling water in the period of seedling dry-raised.

**Key words** [Ecological condition of soil](#):[Rice dry-raised seedlings](#):[Anti-cold ability](#)

DOI:

通讯作者 蒋彭炎

### 扩展功能

#### 本文信息

▶ [Supporting info](#)

▶ [PDF\(465KB\)](#)

▶ [\[HTML全文\]\(0KB\)](#)

▶ [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](#)

▶ [复制索引](#)

▶ [Email Alert](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

#### 相关信息

▶ [本刊中 包含“土壤生态条件” 的相关文章](#)

▶ 本文作者相关文章

- [蒋彭炎](#)
- [洪晓富](#)
- [丁茂千](#)
- [聂志斌](#)
- [黄祖祥](#)
- [卓三头](#)