

研究报告

一种非光敏特早熟小麦品种光温特性之初探

巴特尔·巴克^{1, 2} 郑大玮¹ Herman van Keulen² Jan Verhagen² 吴富宁¹ 曾晓光³

¹中国农业大学资源与环境学院, 北京 100094; ²荷兰国际植物研究所, 瓦和宁根 166700 AA; ³北京市农林科学院, 北京 100087

收稿日期 2004-9-2 修回日期 2005-1-26 网络版发布日期 接受日期

摘要

以强冬性小麦品种京冬8号为对照, 采用分期播种试验, 分析了非光敏特早熟小麦新品种冬早5号的生长发育进程和光温特性, 并探讨了播期对两种小麦品种生育期和产量的影响. 结果表明, 冬早5号小麦品种比对照品种京冬8号早熟3~4 d, 标准播期增产43.4%. 冬早5号小麦品种在低温、短光照条件下也能完成正常的穗分化进程, 其每经历一个穗分化期Z所用的天文日照时数、有效积温和光温积明显少于京冬8号. 该品种在穗分化阶段对光照不敏感, 无需经过严格的春化阶段和光照阶段, 品种类型介于冬性和春性之间, 冬前适播期较广, 适合秋播也可以春播, 这在小麦育种领域是个突破.

关键词 [非光敏, 特早熟, 冬早5号小麦品种, 光温特性](#)

分类号

Photo-thermal characteristics of a non-photosensitive and extra-premature winter wheat variety

Batur Bake^{1, 2}, ZHENG Dawei¹, Herman van Keulen², Jan Verhagen², WU Funing¹, ZENG Xiaoguang³

¹Collage of Resources and Environmental Science, China Agricultural University, Beijing 100094, China; ²Plant Research International, Business Unit Agrosystems Research, P.O.Box 16, 6700 AA, Wageningen, Netherlands; ³Beijing Academy of Agricultural and Forestry Sciences, Beijing 100087, China

Abstract

In a sowing by stages test with winter wheat variety Jingdong 8 (JD8) as reference, this paper studied the photo-thermal characteristics of a non-photosensitive and extra-premature winter wheat variety Dongzao 5 (DZ5), and the effects of sowing stages on its growth and yield. The results showed that the harvest date of DZ5 was 4~5 days earlier than that of JD8, and its yield with standard sowing date increased by 43.4%. In addition, DZ5 had a shorter thermoperiod for ear differentiation, and didn't need strict vernalization process and photoperiod, which could be sown either before or after winter.

Key words

[Non-photosensitivity](#) [Extra-prematurity](#) [Winter wheat variety Dongzao 5](#) [Photo-thermal characteristics](#)

DOI:

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(454KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [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“非光敏, 特早熟, 冬早5号小麦品种, 光温特性”的 相关文章](#)
- ▶ [本文作者相关文章](#)

- [巴特尔巴克](#)
- [郑大玮 Herman van Keulen Jan Verhagen 吴富宁 曾晓光](#)

