Japanese journal of crop science

The Crop Science Society of Japan Info Link



ONLINE ISSN: 1349-0990
PRINT ISSN: 0011-1848

**Japanese journal of crop science**
**Vol.66** , No.4(1997)pp.545-550

[ Full-text PDF (850K) ] [ References ]

# Genotype×Environment Interaction for Early-maturing Rice Cultivars with High Palatability in Northern Kyushu : II. Heading date and culm length

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[Published: 1997/12/05]
[Released: 2008/02/14]

**Abstract:**
Genotype×environment interactions of heading date and culm length in rice were estimated for cultivars with high palatability. Genotype×year, genotype×location, genotype×amount of fertilizer and genotype×cropping season interaction of heading date were significant. Though it was significant owing to small experimental error, the change of Varietal difference in heading date under different amounts of fertilizer was very small. Genotype×year and genotype×location interaction of culm length were significant. Genotype×cropping season and genotype×amount of fertilizer interaction of culm length were not significant. Regression coefficients obtained by Finlay-Wilkinson's method for evaluating the stability of heading date and culm length were the same for newly bred cultivars as check cultivars. These results show that new cultivars with high palatability can be recommended by assuming that the difference in heading date from check cultivars may not differ according to the amount of fertilizer or in culm length according to the amount of fertilizer or cropping season.

**Keywords:**
Breeding, Culm length, Finlay-Wilkinson's method, Genotype×environment interaction, Heading date, High palatability, Rice, Stability

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