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GenotypexEnvironment Interaction for Early-maturing Rice cultivars with High Palatability in Northern Kyushu : I. Yield

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Abstract:

Genotypexenvironment interactions of grain yield in rice were estimated for early-maturing cultivars with high palatability. Genotypexyear and genotypexlocation interaction of yield were significant. On the other hand, genotypexcropping season and genotypexamount of fertilizer interaction of yield were not significant. Regression coefficients obtained by Finlay-Wilkinson's method for evaluation of adaptability were the same for newly bred cultivars as check cultivars. There was only a slight difference found between newly bred cultivars and check cultivars in yield. No significant correlation was found between yield and palatability. These results show that varietal differences in yield differ under different environmental conditions as year and location and yield tests conducted under different years and locations were essential. Newly bred cultivars had the same adaptability and yield ability as high palatability check cultivars.

Keywords:

Adaptability, Breeding, Finlay-Wilkinson's method, Genotypexenvironment interaction, Palatability, Rice, Stability, Yield

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