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Studies on Direct Sowing Culture of Rice in Northern Kyushu : I. Evaluation of lodging tolerance

Takefumi OGATA and Yuji MATSUE

1) Fukuoka Agricultural Research Center

2) Fukuoka Agricultural Research Center

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Abstract:

This study was undertaken to find the evaluation method of lodging tolerance under direct sowing culture in flooded paddy field for the selecting of good eating quality rice cultivar well adapted to direct sowing culture in Northern Kyushu. Under direct sowing culture, lodging degree showed a significant ($P<0.01$) positive correlation with pushing resistance. This result indicates that it is possible to use pushing resistance as an indicator of lodging tolerance under direct sowing. Pushing resistance under transplanting culture showed a significant ($P<0.01$) position correlation with the pushing resistance under direct sowing culture, and further showed a significant ($P<0.01$) positive correlation with the lodging tolerance under direct sowing culture. Therefore, the lodging degree under direct sowing culture could be evaluated by pushing resistance under transplanting culture. These results lead to the conclusion that selecting high lodging tolerance cultivar adapted to direct sowing culture is possible without direct sowing by taking an accurate measurement of pushing resistance under transplanting culture.

Keywords:

Direct sowing culture, Lodging tolerance, Northern Kyushu, Pushing resistance, Rice, Transplanting culture, Varietal difference

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