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# RESEARCH REPORT

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FARM SCIENCE

FROM THE MICHIGAN STATE UNIVERSITY  
AGRICULTURAL EXPERIMENT STATION EAST LANSING

## Lakeland: A New Winter Barley For Michigan

*By Cecil D. Nickell, John E. Grafius and Dimon Wolfe<sup>1</sup>*

**L**AKELAND IS A NEW feed barley developed for the northern fringe of the winter barley area of Michigan on the approximate latitudes of Ingham and Gratiot counties.

Winter barley is not as hardy as winter wheat, and although Lakeland appears to be a superior winter barley in this respect, it may still suffer winter injury in the absence of snow cover.

The five year yield average at East Lansing shows a 12 bushel yield advantage for Lakeland over Hudson (Table 1). This same difference was not found in southwestern Michigan (Table 2). Presumably spring recovery is not as important in this area. Consequently, we recommend Lakeland only for the

northern edge of the winter barley area of Michigan.

Lakeland originated from a recurrent selection program and has a complex parentage C1 9574 [NY563a-26-7 x KYCC10-68-5 x Dicktoo]. It has been grown in the Uniform Winter Barley Nursery under the number 57-410-1-3-1 and has been assigned the number C1 13734. It has a semi-compact head (less compact than Hudson) which remains upright until ripe and then tends to nod. Other identifying characteristics are rough awns which are more than twice as long as the head, glume awns which are larger than the lemma, lemma which is sparsely toothed and rachilla which has long hairs.

Lakeland is more resistant to lodging than Hudson but slightly inferior in test weight. It does not have good malting quality pattern and will be used as feed.

<sup>1</sup>Former Graduate Assistant, Professor and Technician, respectively, Department of Crop Sciences, Michigan State University.

*TABLE 1 —Yield and other agronomic data for Lakeland vs. check varieties, East Lansing, 1963-67*

Variety	Lodging %	Yield Bu.	Test Weight Lbs.	Height In.	Survival %
Hudson	14	70	52	32	76
Wong	11	51	48	34	49
Lakeland	0	82	51	33	79
L. S. D. <sup>5</sup>		5			

<sup>5</sup> Difference required to be of significance.

*TABLE 2 —Yield and test weight for Lakeland vs. check varieties, southwestern Michigan, 1965-67*

Variety	Yield Bu.	Test Weight Lbs.
Hudson	62	48
Wong	53	44
Lakeland	53	48
L. S. D. <sup>5</sup>	7	

<sup>5</sup> Difference required to be of significance.