

Winter Wheat Variety Test

Ron Skrdla, ag research specialist
Jean-Luc Jannink, assistant professor
Department of Agronomy

Materials and Methods

Twenty varieties were included in the 2006 winter wheat test at Lewis. Each variety was sown in three different plots to average the effects of soil variability. The varieties were planted September 21, 2005 at a rate of 1½ bushels/acre. The wheat plots were harvested on July 6.

Results and Discussion

Average winter wheat grain yield at Lewis in 2006 was 69.4 bushels/acre, 11.6 bushels/acre more than the long-term average yield shown in

(Table 1). Based on the long-term data, 2145 was the highest-yielding variety among the hard red winter wheat class, Wendy in the hard white wheat class, and Kaskaskia along with Truman in the soft red winter wheat class. Goodstreak had the highest test weight in 2006 in the hard red winter wheat class, Wendy in the hard white winter wheat class, and Kaskaskia in the soft red winter wheat class.

Additional information on oat and barley variety tests in the state can be found in the publication, “Iowa Crop Performance Tests—Winter Wheat and Winter Triticale, 2006,” which is available from county extension offices (AG-6) and at www.public.iastate.edu/~jjannink/.

Table 1. Performance of winter wheat varieties tested at Lewis.

Variety	Origin	Class ¹	Grain Yields			Lodging score ³	Plant height in. ²	Test weight lb/bu ⁴
			2006 bu/A	Long term	Head Date (May) ²			
2137	KS	HR	81.2	72.7	24	.	34.8	60.2
2145	KS	HR	78.2	76.6	24	.	34.8	60.2
Arapahoe	NE	HR	80.1	65.0	23	.	34.5	59.4
Custer	OK	HR	81.8	69.8	21	.	36.4	60.5
Darrell	SD	HR	86.5	72.0	26	.	35.8	60.5
Expedition	SD	HR	76.5	69.3	20	.	36.9	60.3
Fuller	KS	HR	81.2	72.7	24	.	37.0	60.6
Goodstreak	NE	HR	83.0	72.8	25	.	40.9	61.5
Hallam	NE	HR	84.0	72.4	24	.	36.8	58.1
Infinity	NE	HR	82.8	74.3	25	.	34.8	59.2
Jagger	KS	HR	84.1	70.9	22	.	32.7	57.9
Karl92	KS	HR	84.9	71.3	23	.	37.1	61.1
Millenium	NE	HR	77.2	65.3	20	.	33.9	59.3
Overley	KS	HR	83.2	70.6	24	.	37.8	59.9
Wahoo	NE	HR	77.5	68.2	24	.	32.7	60.9
Wesley	NE	HR	81.9	73.5	19	.	35.2	60.3
Alice	SD	HW	75.6	67.2	27	.	39.4	60.4
Wendy	SD	HW	82.2	70.1	22	.	33.8	59.8
Kaskaskia	IL	SR	79.3	70.3	21	.	33.3	60.9
Truman	MO	SR	79.2	72.2	25	.	33.2	59.9
Mean			81.0	69.4	23	.	35.3	60.0
Lsd ⁵			7.1	14.4	2	.	2.2	0.8

¹Class—HR=hard red, HW=hard white, and SR=soft red.

²Heading date and plant height data from Ames, 2006.

³Lodging—no lodging data recorded in 2006—all plots were standing at harvest.

⁴Test weight—2006 average from three sites.

⁵LSD=Least significant difference. When entries differ by an amount equal to one LSD or more, they are considered to be in different classes with 95% certainty.