

Winter Wheat Variety Test

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Materials and Methods

Twenty varieties were included in the 2006 winter wheat variety test at Crawfordsville. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted September 27, 2005 at a rate of 1½ bushels/acre. The wheat plots were harvested on July 10.

Results and Discussion

Average winter wheat grain yield at Crawfordsville in 2006 was 116.1 bushels/acre, 38.1 bushels/acre more than the long-term

average yield shown in (Table 1). Based on the long-term data, Infinity was the highest yielding variety among the hard red winter wheat class, Wendy in the hard white wheat class, and Kaskaskia in the soft red winter wheat class. Infinity had the highest test weight in 2006 in the hard red winter wheat class, Nuplains in the hard white winter wheat class, and Kaskaskia in the soft red winter wheat class.

Additional information on winter wheat 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 Crawfordsville.

Variety	Origin	Class ¹	Grain Yields		Head date (May) ²	Lodging score ³	Plant height in. ²	Test weight lb/bu ⁴
			2006	Long term				
2137	KS	HR	113.0	80.4	24	.	34.8	60.2
2145	KS	HR	115.2	82.1	24	.	34.8	60.2
Arapahoe	NE	HR	115.7	75.1	23	.	34.5	59.4
Custer	OK	HR	120.2	83.5	21	.	36.4	60.5
Darrell	SD	HR	121.5	82.4	26	.	35.8	60.5
Expedition	SD	HR	113.7	76.0	20	.	36.9	60.3
Fuller	KS	HR	122.3	84.5	24	.	37.0	60.6
Goodstreak	NE	HR	116.3	81.1	25	.	40.9	61.5
Hallam	NE	HR	119.7	82.4	24	.	36.8	58.1
Infinity	NE	HR	123.7	88.7	25	.	34.8	59.2
Jagger	KS	HR	118.4	80.3	22	.	32.7	57.9
Karl92	KS	HR	120.4	81.7	23	.	37.1	61.1
Millenium	NE	HR	108.8	70.4	20	.	33.9	59.3
Overley	KS	HR	123.0	87.5	24	.	37.8	59.9
Wahoo	NE	HR	117.0	82.8	24	.	32.7	60.9
Wesley	NE	HR	107.8	75.0	19	.	35.2	60.3
Alice	SD	HW	109.6	74.5	27	.	39.4	60.4
Wendy	SD	HW	113.0	76.7	22	.	33.8	59.8
Kaskaskia	IL	SR	114.4	82.8	21	.	33.3	60.9
Truman	MO	SR	114.1	74.9	25	.	33.2	59.9
Mean			116.1	78.0	23	.	35.3	60.0
LSD ⁵			8.6	12.0	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.