

## Winter Wheat Variety Test

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### Materials and Methods

Twenty-three varieties were included in the 2007 winter wheat variety at Crawfordsville. Each variety was sown in three different plots to average the effects of soil variability. The varieties were planted October 2, 2006 at a rate of 1½ bushels/acre. The wheat plots were harvested on July 11.

### Results

Average winter wheat grain yield at Crawfordsville in 2007 was 59 bushels/acre, 27 bushels/acre less than the long-term average

yield shown in Table 1. Based on the long-term data, Custer, Hallam, and Overland were the highest yielding varieties among the hard red winter wheat class; Wendy in the hard white winter wheat class; and Kaskaskia in the soft red winter wheat class. Variety 2137 had the highest test weight in 2007 in the hard red winter wheat class, Wendy in the hard white winter wheat class, and INW0412 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, 2007,” which is available from county extension offices (AG-6) and at [www.croptesting.iastate.edu/](http://www.croptesting.iastate.edu/).

**Table 1. Performance of winter wheat varieties tested at Crawfordsville.**

Variety	Origin	Class <sup>1</sup>	Grain yields		Head date (May) <sup>2</sup>	Lodging score <sup>3</sup>	Plant height in <sup>2</sup>	Test weight lb/bu <sup>4</sup>
			2007 bu/acre	Long term				
2137	KS	HR	63	78	22	.	25.3	62.3
2145	KS	HR	51	78	23	.	25.8	60.0
Arapahoe	NE	HR	57	75	24	.	28.0	60.3
Custer	OK	HR	58	82	23	.	27.8	60.5
Darrell	SD	HR	58	79	27	.	29.2	61.0
Expedition	SD	HR	61	76	22	.	27.5	60.7
Fuller	KS	HR	50	81	22	.	23.4	60.6
Goodstreak	NE	HR	63	79	26	.	31.7	60.9
Hallam	NE	HR	64	82	26	.	28.5	59.7
Infinity	NE	HR	60	72	27	.	28.7	60.6
Jagger	KS	HR	49	78	21	.	27.0	56.9
Karl92	KS	HR	58	76	21	.	24.4	60.5
OK102	OK	HR	59	74	23	.	21.3	60.7
Overland	NE	HR	66	82	26	.	29.7	60.6
Overley	KS	HR	55	75	21	.	24.1	60.9
Wahoo	NE	HR	72	77	26	.	30.0	60.0
Wesley	NE	HR	62	76	26	.	28.7	60.4
Alice	SD	HW	60	81	22	.	24.4	60.1
Wendy	SD	HW	60	82	20	.	23.4	60.7
INW0411	IN	SR	52	76	22	.	23.9	59.0
INW0412	IN	SR	67	82	24	.	26.1	60.9
Kaskaskia	IL	SR	70	92	23	.	28.2	60.7
Truman	MO	SR	59	79	30	.	29.8	59.8
Mean			59	76	24	.	27.0	60.4
LSD (0.05) <sup>5</sup>			9	11	3	.	3.1	2.8

<sup>1</sup>Class: HR = hard red, HW = hard white, and SR = soft red.

<sup>2</sup>Heading date and plant height data from Ames, 2007.

<sup>3</sup>Lodging—no lodging data recorded in 2007; all plots were standing at harvest.

<sup>4</sup>Test weight—2007 average from three sites.

<sup>5</sup>LSD = 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.