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## Winter Wheat Variety Test

Ronald Skrdla  
*Iowa State University*

Jean-Luc Jannink  
*Iowa State University*

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# Winter Wheat Variety Test

**Abstract**

Twenty-two varieties were included in the 2005 winter wheat variety test at Crawfordsville. Each variety was sown in three different plots to average the effects of soil variability. The varieties were planted September 21, 2004, at a rate of 1 1/2 bushels/acre. The wheat plots were harvested on July 7.

**Keywords**

Agronomy

**Disciplines**

Agricultural Science | Agriculture | Agronomy and Crop Sciences

## Winter Wheat Variety Test

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

### Materials and Methods

Twenty-two varieties were included in the 2005 winter wheat variety test at Crawfordsville. Each variety was sown in three different plots to average the effects of soil variability. The varieties were planted September 21, 2004, at a rate of 1 1/2 bushels/acre. The wheat plots were harvested on July 7.

### Results and Discussion

Average winter wheat grain yield at Crawfordsville in 2005 was 73.9 bushels/acre, 1.2 bushels/acre more than the long-term

average yield (Table 1). Based on the long-term data, 2145 was the highest-yielding variety among the hard red winter wheat class, Nuplains in the hard white wheat class, and Kaskaskia in the soft red winter wheat class. Infinity had the highest test weight in 2005 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, 2005," which is available from county extension offices (AG-6) and at [www.public.iastate.edu/~jjannink/](http://www.public.iastate.edu/~jjannink/).

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

Variety	Class <sup>1</sup>	Grain yields <sup>1</sup>		Head date (May) <sup>2</sup>	Lodging score <sup>3</sup>	Plant height (in.) <sup>2</sup>	Test weight (lb/bu) <sup>4</sup>
		2005 (bu/acre)	Long Term				
2137	HR	71.6	75.8	20	.	34.0	57.4
2145	HR	75.2	77.7	22	.	33.7	57.8
2174	HR	71.4	.	21	.	34.9	58.9
Jagger	HR	59.0	65.5	18	.	32.9	56.9
Karl92	HR	70.6	71.4	18	.	34.1	58.6
Overley	HR	74.1	.	18	.	33.5	58.9
Arapahoe	HR	63.5	67.8	22	.	35.7	56.5
Culver	HR	58.5	65.2	23	.	36.8	57.1
Hallam	HR	79.6	.	21	.	38.6	56.2
Infinity	HR	82.4	.	24	.	37.0	59.1
Millenium	HR	70.2	71.2	25	.	37.5	58.6
Wahoo	HR	65.6	73.6	23	.	37.7	56.7
Wesley	HR	65.3	68.7	23	.	35.2	57.2
Custer	HR	82.3	77.3	20	.	35.8	58.2
Expedition	HR	69.0	.	19	.	35.4	58.6
Wendy	HW	87.9	.	18	.	32.2	59.2
Heyne	HW	63.4	67.7	22	.	34.2	58.2
Nuplains	HW	69.6	70.9	27	.	34.1	58.7
Kaskaskia	SR	90.2	81.3	23	.	37.5	58.6
Truman	SR	81.0	.	25	.	35.3	57.4
Cardinal	SR	68.0	70.0	24	.	36.5	56.3
Mean	-	73.9	72.7	22	.	35.2	57.9
LSD <sup>5</sup>	-	10.4	14.1	2	.	2.7	1.5

<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, 2005.

<sup>3</sup>Lodging–no lodging data recorded in 2005; all plots were standing at harvest.

<sup>4</sup>Test weight–2005 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.