

## Winter Wheat Variety Test

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### Materials and Methods

Twenty-four varieties were included in the 2003 winter wheat test at Crawfordsville. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted September 25, 2002, at a rate of 1.5 bushels/acre. The wheat plots were harvested on July 14.

### Results

Average winter wheat grain yield at Crawfordsville in 2003 was 97.4 bushels/acre, which is 15.0 bushels/acre more than the average yield in 2002 (Table 1). There were no data in 2001 because the nursery winterkilled. Based on two years of data (2002 and 2003), Kaskaskia was the highest yielding variety. Karl92 had the highest test weight in 2003.

Additional information on oat and barley variety tests in the state can be found in the publication, "Iowa Crop Performance Tests—Winter Wheat, 2000–2003, and Winter Triticale, 2003," which is available from county extension offices (AG-6) and at [www.public.iastate.edu/~jjannink/](http://www.public.iastate.edu/~jjannink/).

## Triticale Variety Test

Nineteen winter triticale lines were tested at Crawfordsville in 2003. Only one year of data is available; thus, no table is presented. Triticale is being evaluated as a possible feed grain crop. Additional information on the triticale tests grown in the state can be found in the publication, "Iowa Crop Performance Tests—Winter Wheat, 2000-2003 and Winter Triticale, 2003," 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 from 2001 and 2003.**

Variety	Grain yields			3yr avg	Head date (May) <sup>1</sup>	Lodging score <sup>2</sup>	Plant height in. <sup>3</sup>	Test weight lbs/bu <sup>4</sup>
	2001	2002	2003 bu/A					
2137	-	85.6	95.5	90.5	25	7	42	58.0
2145	-	87.5	107.4	97.5	26	-	40	58.0
ARAPAHOE	-	92.1	88.4	90.2	25	8	42	58.0
CARDINAL	-	92.2	99.3	95.7	28	7	42	55.2
CULVER	-	68.2	95.3	81.7	26	33	44	56.2
CUSTER	-	86.0	98.2	92.1	24	7	43	58.4
EMPIRE	-	-	106.5	99.5	28	-	45	55.7
ERNIE	-	85.2	82.6	83.9	24	67	41	56.4
GOLDFIELD	-	93.7	84.1	88.9	25	13	43	57.3
GOODSTREAK	-	-	107.0	100.1	27	-	51	59.9
HARRY	-	-	102.8	95.8	27	-	41	53.3
HEYNE	-	67.5	92.9	80.2	26	-	39	58.8
HOWELL	-	72.0	101.4	86.7	27	7	40	56.3
JAGGER	-	80.8	93.2	87.0	23	33	40	56.3
KARL92	-	77.1	106.1	91.6	23	37	42	59.9
KASKASKIA	-	106.0	113.5	109.6	26	10	45	58.1
MILLENIUM	-	87.1	114.8	100.9	29	-	47	59.1
NEKOTA	-	76.8	87.9	82.4	26	27	42	57.5
NUPLAINS	-	84.3	71.3	77.8	31	-	40	56.6
PATTERSON	-	88.6	96.5	92.6	23	13	42	56.8
SIOUXLAND	-	65.5	89.4	77.4	27	0	47	56.7
WAHOO	-	76.6	100.6	88.6	28	-	44	54.6
WESLEY	-	82.1	105.1	93.6	27	7	39	56.3
WINSTAR	-	76.8	99.1	88.0	28	20	43	56.8
Mean	-	82.4	97.4	90.5	26	21	43	57.0
LSD <sup>5</sup>	-	6.8	12.3	19.1	1	22	2	2.3

<sup>1</sup> Heading date at Ames, 2003.<sup>2</sup> Lodging – 1999 average from 5 sites.<sup>3</sup> Plant height from Ames, 2003.<sup>4</sup> Test weight – 2003 average from 5 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.