

Winter Wheat Variety Test

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Materials and Methods

Twenty-one varieties were included in the 2002 winter wheat test at Crawfordsville, Iowa. Each variety was sown in three different plots in order to average the effects of soil variability. The varieties were planted September 28, 2001, at a rate of 1 1/2 bushels/acre. The wheat plots were harvested July 8.

Results

Average winter wheat grain yield at Crawfordsville in 2002 was 82.4 bushels/acre,

which is nearly the same as the average yield in 2000 (Table 1). There were no data in 2001 because the nursery winterkilled. Based on two years of data (2000 and 2002), Kaskaskia was the highest yielding variety. Nuplains had the highest test weight in 2002.

Additional information on oat and barley variety tests in the state can be found in the publication, "Iowa Crop Performance Tests—Winter Wheat, 1999–2002, and Winter Triticale, 2002," which is available from county extension offices (AG-6) and at www.public.iastate.edu/~jjannink.

Triticale Variety Test

Twenty-four winter triticale lines were tested at Crawfordsville, Iowa, in 2002. Only one year of data are 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, 1999–2002, and Winter Triticale, 2002," 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 from 2000 and 2002.

Variety	Grain yields			3yr avg	Head date (May) ¹	Lodging score ²	Plant height in. ³	Test weight lbs/bu ⁴
	2000	2001	2002 bu/A					
2137	92.6	-	85.6	89.1	29	7	36	61.3
2145	-	-	87.5	89.8	29	-	34	62.1
ARAPAHOE	82.9	-	92.1	87.5	28	8	35	60.3
CARDINAL	83.4	-	92.2	87.8	30	7	40	58.8
CULVER	84.0	-	68.2	76.1	30	33	37	60.3
CUSTER	102.0	-	86.0	94.2	27	7	36	61.5
ERNIE	86.7	-	85.2	86.0	27	67	33	60.0
GOLDFIELD	79.9	-	93.7	86.8	28	13	37	60.6
HEYNE	-	-	67.5	69.8	30	-	33	61.7
HOWELL	85.1	-	72.0	78.5	31	7	33	58.7
JAGGER	83.1	-	80.8	81.9	25	33	36	60.6
KARL92	92.6	-	77.1	84.9	27	37	33	61.5
KASKASKIA	116.0	-	105.7	110.7	29	10	39	61.3
MILLENIUM	-	-	87.1	89.4	31	-	40	60.9
NEKOTA	85.5	-	76.8	81.2	29	27	37	61.1
NUPLAINS	-	-	84.3	86.6	33	-	34	62.9
PATTERSON	84.9	-	88.6	86.8	27	13	37	60.4
SIOUXLAND	75.7	-	65.5	70.6	29	0	40	60.2
WAHOO	.	-	76.6	78.9	31	-	39	59.7
WESLEY	89.0	-	82.1	85.5	30	7	32	60.7
WINSTAR	79.0	-	76.8	77.9	6/1	20	38	60.3
mean	82.6	-	82.4	84.8	30	21	36	60.5
LSD ⁵	9.8	-	6.8	14.3	1	22	2	0.8

¹Heading date at Ames, 2002.²Lodging–1999 average from five sites.³Plant height data from Ames, 2002.⁴Test weight – 2002 average from five 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.