

Winter Wheat Variety Test

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Materials and Methods

Twenty-one varieties were included in the 2002 winter wheat test at Lewis, Iowa. Each variety was sown in three different plots in order to average the effects of soil variability. The varieties were planted September 24, 2001, at a rate of 1 1/2 bushels/acre. The wheat plots were harvested on July 3.

Results

Average winter wheat grain yield at Lewis in 2002 was 80.6 bushels/acre, 16.7 bushels/acre more than 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), Karl92 and Custer were the highest yielding varieties. 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 and 13 spring triticale lines were tested at Lewis, 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 Lewis 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 bu/a	2002					
2137	84.5	-	78.5	81.5	29	7	36	61.3
2145	-	-	99.0	99.0	29	-	34	62.1
ARAPAHOE	55.4	-	67.0	61.2	28	8	35	60.3
CARDINAL	66.1	-	83.4	74.8	30	7	40	58.8
CULVER	80.2	-	84.1	82.2	30	33	37	60.3
CUSTER	88.1	-	82.2	85.2	27	7	36	61.5
ERNIE	82.1	-	78.4	80.3	27	67	33	60.0
GOLDFIELD	50.6	-	73.9	62.2	28	13	37	60.6
HEYNE	-	-	62.4	62.4	30	-	33	61.7
HOWELL	70.6	-	75.9	73.3	31	7	33	58.7
JAGGER	64.8	-	62.3	64.8	25	33	36	60.6
KARL92	84.0	-	87.7	85.8	27	37	33	61.5
KASKASKIA	85.7	-	92.7	89.2	29	10	39	61.3
MILLENIUM	-	-	94.3	94.3	31	-	40	60.9
NEKOTA	69.3	-	74.6	72.0	29	27	37	61.1
NUPLAINS	-	-	92.6	92.6	33	-	34	62.9
PATTERSON	63.2	-	80.2	71.7	27	13	37	60.4
SIOUXLAND	62.7	-	72.3	67.5	29	0	40	60.2
WAHOO	-	-	72.3	72.3	31	-	39	59.7
WESLEY	69.8	-	87.8	78.8	30	7	32	60.7
WINSTAR	66.3	-	73.7	70.0	6/1	20	38	60.3
mean	68.9	-	78.3	76.5	30	21	36	60.5
LSD ⁵	10.1	-	9.2	13.4	1	22	2	0.8

¹Heading date at Ames, 2002.²Lodging – 1999 average from five sites.³Straw yield – 2002 average from five sites.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.