

Winter Wheat Variety Test

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Materials and Methods

Twenty-nine varieties were included in the 2000 winter wheat test at Lewis. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted September 29, 1999, at a rate of 1.5 bushels/acre. The winter wheat plots were harvested on June 29, 2000.

Results

Average winter wheat grain yield at Lewis in 2000 was 68.9 bushels/acre, 19 bushels/acre more than the average yield in 1999 (Table 1). Based on two years of data (1999 - 2000), Custer was the highest yielding variety. Crimson had the highest test weight among the varieties tested for two years.

Additional information on winter wheat variety tests in the state can be found in the publication, "Iowa Crop Performance Tests – Winter Wheat, 1998-2000," which is available from county extension offices (AG-6).

Table 1. Performance of winter wheat entries at Lewis in 1999 and 2000.

Entry	Yield			Heading date ^a	Lodging score ^b	Straw Yield ^c	Test wt. ^d	Height ^e
	1999	2000	2-yr avg					
	Bu/Acre					T/acre	Lbs/Bu	Inches
2137	57.4	84.5	70.9	18	7	4.4	56.2	31
Alliance	31.5	75.9	53.7	16	50	4.0	56.0	33
Arapahoe	62.3	55.4	58.9	15	8	4.2	55.1	34
Cardinal	58.5	66.1	62.3	19	7	3.6	54.4	35
Catoctin	48.5	64.6	56.5	18	17	3.9	54.8	31
Centura	36.7	66.8	51.7	19	7	3.7	57.0	33
Cimarron	68.4	78.5	73.5	14	33	3.8	57.3	28
Crimson	27.1	59.6	43.4	22	23	3.7	58.6	33
Culver	48.1	80.2	64.1	20	33	3.6	56.0	32
Custer	84.7	88.1	86.4	15	7	4.0	57.8	31
Ernie	62.1	82.1	72.1	15	67	5.0	54.9	28
Glacier	43.1	53.6	48.4	20	13	5.8	54.6	35
Goldfield	57.1	50.6	53.9	13	13	3.9	54.8	35
Hopewell	57.1	39.6	48.3	16	7	4.1	52.7	31
Howell	50.6	70.6	60.6	19	18	3.9	57.2	33
Jagger	46.7	64.8	55.8	12	33	3.9	55.4	30
Karl92	55.5	84.0	69.7	14	37	2.9	56.3	31
Kaskaksia	83.7	85.7	84.7	16	10	4.5	56.5	35
Nekota	47.5	69.3	58.4	17	27	3.5	57.0	32
Patterson	60.2	63.2	61.7	13	13	4.6	54.7	32
Prowers	23.5	53.3	38.4	17	43	4.0	58.0	35
Rawhide	47.6	68.9	58.4	17	13	3.4	56.7	33
Siouxland	35.5	62.7	49.1	18	0	3.6	56.9	36
Tandem	15.7	67.0	41.4	19	53	4.0	57.9	33
Tonkawah	76.1	85.9	81.0	18	0	3.9	57.8	29
Vista	32.9	70.7	51.8	17	50	3.6	55.7	29
Wesley	44.7	69.8	57.3	17	7	3.8	56.3	32
Winstar	33.0	66.3	49.7	19	20	4.3	56.7	34
Yuma	53.2	71.3	62.2	15	17	3.8	56.5	33
Mean	50.0	68.9	59.5	17	21	1.3	56.2	32
LSD(0.05) ^f	10.0	10.1	22.8	3	22	4.0	1.2	3

^a Heading date at Ames, 2000.

^b Lodging - 1999 average from 3 sites.

^c Straw yield - 2000 average from 3 sites.

^d Test weight – 2000 average from 3 sites.

^e Height – taken at Ames, 2000.

^f 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.