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Abstract

Twenty-one varieties were included in the 2004 winter wheat at Lewis. Each variety was sown in three different plots, to average the effects of soil variability. The varieties were planted September 25, 2003, at a rate of 1.5 bushels/acre. The wheat plots were harvested on July 8.

Keywords

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Disciplines

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Winter Wheat Variety Test

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Materials and Methods

Twenty-one varieties were included in the 2004 winter wheat at Lewis. Each variety was sown in three different plots, to average the effects of soil variability. The varieties were planted September 25, 2003, at a rate of 1.5 bushels/acre. The wheat plots were harvested on July 8.

Results

Average winter wheat grain yield at Lewis in 2004 was 92.8 bushels/acre, 25.7 bushels/acre more than the long-term average yield shown in (Table 1). Based on the long-term data, Kaskaskia was the highest yielding variety. Goodstreak had the highest test weight in 2004.

Additional information on oat and barley variety tests in the state can be found in the publication, "Iowa Crop Performance Tests—Winter Wheat, 1998–2004; and Winter Triticale, 2002–2004," 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.

Variety	Class ¹	Grain yields ¹ (bu/A)		Head date (May) ²	Lodging score ³	Plant height (in.)	Test weight (lbs/bu ⁴)
		2004	Long term				
2137	HR	98.2	73.9	22	21.6	27.2	54.4
2145	HR	104.4	78.8	25	26.9	26.2	53.8
Arapahoe	HR	95.3	67.4	24	23.1	27.6	56.0
Culver	HR	88.7	66.6	26	33.2	28.3	53.6
Custer	HR	97.2	79.0	23	22.8	25.3	53.9
Goodstreak	HR	109.0	74.8	27	28.8	32.0	57.4
Jagger	HR	82.0	62.3	21	33.7	26.0	52.9
Karl92	HR	97.8	78.5	23	36.0	27.7	55.0
Millenium	HR	109.3	76.3	29	28.2	29.2	55.6
Nekota	HR	73.8	60.3	24	25.9	26.9	53.7
Wahoo	HR	92.9	60.6	27	26.2	29.0	52.9
Wesley	HR	84.9	67.5	27	21.2	26.4	52.4
Winstar	HR	102.5	63.8	30	27.6	29.2	55.0
Heyne	HW	86.0	67.8	24	30.4	25.8	54.5
Nuplains	HW	56.7	53.2	32	39.9	27.0	53.2
Cardinal	SR	84.8	67.6	24	23.8	28.7	52.0
Ernie	SR	86.6	72.1	24	46.7	24.0	54.0
Goldfield	SR	89.9	65.4	25	26.6	27.1	55.9
Howell	SR	90.8	70.7	27	27.6	27.2	52.0
Kaskaskia	SR	110.7	84.3	24	27.9	28.7	55.3
Patterson	SR	97.5	68.8	22	27.1	25.8	54.8
Mean	-	92.8	67.1	25	28.8	27.3	54.2
LSD ⁵	-	10.3	13.7	3	16	2	1.8

¹ Class – HR=hard red, HW=hard white, and SR=soft red.

² Heading date and plant height data from Ames, 2004.

³ Lodging – 1999 average from five sites.

⁴ Test weight – 2004 average from five sites.

⁵ 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.