

2006 Soft White Spring Wheat Variety Performance Trial at Center¹.

Merlin A. Dillon, Area Extension Agronomist.

Variety	Grain Yield ²	Bushel Weight	Heading Date ³	Grain Moisture	Plant Height	Grain Protein
	bu/ac	lbs/bu	(June)	%	in.	%
IDO 599	139.7	59.0	20.3	13.3	36.9	9.0
IDO 632	139.0	57.7	17.0	14.1	30.9	9.6
Alturas	131.1	60.4	23.5	12.3	33.9	9.8
IDO 645	121.4	60.6	23.0	12.4	35.4	11.3
IDO 629wxy	119.3	59.7	26.5	12.9	35.4	10.0
IDO 630wxy	114.5	59.1	25.0	13.2	32.4	10.7
Centennial	113.2	61.0	20.3	11.8	30.9	9.8
IDO 563	107.5	59.8	15.5	13.4	31.2	10.5
Trial Average	123.2	59.7	21.4	12.9	33.4	10.1
LSD _(0.10)	9.8	0.81	1.28	1.93	2.86	1.06
CV%	6.56	1.12	4.9	7.0	4.0	8.65

¹San Luis Valley Research Center, Center, CO.

²Grain yield based on 60 lbs/bushel and 12 % moisture.

³Days after June 1.

Site Information:

Date Planted: April 5

Date Harvested: August 29

Irrigation: center pivot

Seed Rate: 120 lbs/acre

Herbicide: Bronate, 1 pt/acre

Row Spacing: 8-inch

Nitrogen: 100 lb/ac + 30 lb/ac fertigation

Plot Size: 6 ft. x 35'; 9 rows planted 8 inches apart

Comments:

Vegetative growth this year was fairly good; but without the usual plant lodging. A soil problem carried over from this same area in 2004. In spite of this, yields were good and the yield variability was low (CV=6.56%). Grain yield was less than it has been for several years; it averaged only 123.2 bu/acre. The LSD_{.10} was 9.8 bu/acre.

Wet weather caused some Xanthomonas (bacterial) leaf blight; however, the bushel weight still averaged almost 60 lbs/bu. Plant height was good; heading dates were a little earlier than usual. Grain moisture was high at harvest for some varieties.

With more vigorous vegetative growth; however, some of these lines may show weaker straw and lodge more than Centennial. Lodging would reduce the harvested yield of lodged varieties since these trials are harvested standing. Centennial is still the recommended soft white variety.

IDO599, IDO632 and Alturas comprised the top yield group this year. IDO 599 and Alturas were also in the top yield group last year. In the only trial that has had some lodging, Alturas lodged more than Centennial. We need some larger scale trials on these new varieties from Idaho.