

2006 Irrigated Spring Wheat Variety Performance Trial at Yellow Jacket, CO¹

Entry	Market Class	Grain Yield ² bu/ac	Moisture %	Test Weight lb/bu	Grain Protein ³ %	Plant Height in	Heading Date ⁴ days
Lolo	Hard white	112.1	10.0	61.4	11.8	31	195
IDO645	Soft white	110.3	10.4	60.3	11.3	27	195
Alturas	Soft white	108.1	10.1	58.9	10.9	27	198
ID377s	Hard white	107.0	9.8	61.2	12.3	29	195
Sylvan	Hard red	104.3	10.3	61.3	10.9	35	202
IDO632	Soft white	102.7	10.5	57.5	11.1	26	186
IDO629 WXY	Waxy	99.3	9.4	59.2	10.8	34	202
IDO630 WXY	Waxy	99.2	9.3	57.5	11.4	30	202
UI Lochsa	Hard white	97.1	9.9	58.1	12.3	28	186
Blanca Grande	Hard white	87.1	9.7	59.9	12.6	22	186
Jerome	Hard red	87.1	9.9	58.8	13.3	26	186
Plata	Hard white	82.1	10.0	59.6	12.8	21	186
IDO578	Hard red	77.7	9.8	59.4	13.6	25	191
Average		98.0	9.9	59.5	11.9	28	
CV%		7.6					
LSD _(0.05)		10.7					

¹Trial conducted at the Southwestern Colorado Research Center; seeded 5/12/06 and harvested 10/2/06.

²Yield based on 60 lb/bu and 12% moisture.

³Protein based on 12 % moisture.

⁴Number of days after January 1.

Site Information:

Soil type: Wetherill silty clay loam
 Previous crop: Dry beans; two-years ago: winter wheat
 Seeding rate: 1,200,000 seeds/ac (8-inch row spacing)
 Fertilizer: 50 lb N/ac broadcast preplant (May 10, 2006)
 Herbicide: Curtail M 2 pt/ac (June 17, 2006)
 Insecticide: Lorsban 1 pt/ac (June 19, 2006)
 Irrigation: 17.6 inches (7 sprinkler wheel-line passes)
 Precipitation: January 1, 2006 thru August 31, 2006: 6.9 inches
 (long-term average 9.7 inches)

Comments:

The trial averaged 98.0 bu/ac with a test weight average of 59.5 lb/bu. The hard white wheat Lolo performed very well (112.1 bu/ac yield with a 61.4 lb/bu test weight). Three soft white wheat entries (IDO645, Alturas, and IDO632) yielded above the trial average. Sylvan continues to be the best yielding hard red spring wheat for southwestern Colorado.

Lodging was very minor in the trial. IDO629 WXY with 20% lodging and ID377s with 15% lodging were the only entries with lodging above 10%. IDO645 and Lolo had lodging rated at 7.5%. None of the other entries lodged. IDO578 exhibited poor straw strength but was not lodged. The variety trial was treated with Lorsban insecticide to control Russian wheat aphid (RWA).