

## 2010-2011 Dryland Winter Wheat Variety Trial at Yellow Jacket, CO<sup>1</sup>

Variety	Type	Grain Yield <sup>2</sup> bu/acre	Grain Moisture %	Grain Test Weight lb/bu	Plant Height in.	50% Heading date
CO050173	HRW <sup>3</sup>	62.7	10.3	55.8	30.2	6/4
CO06052	HRW-C	61.8	10.1	56.5	29.3	6/3
Hatcher	HRW	58.3	9.3	52.3	26.5	6/4
TAM 112	HRW	57.5	10.1	55.3	27.8	6/3
Ripper	HRW	56.8	9.5	53.3	26.8	6/3
Winterhawk	HRW	56.3	10.3	55.7	27.8	6/6
Snowmass	HWW	55.6	10.1	54.2	28.7	6/4
Above	HRW-C	55.4	10.0	54.2	27.5	6/3
CO050303-2	HRW	54.4	9.9	53.9	28.3	6/8
CO050233-2	HRW	54.1	9.3	52.3	28.0	6/8
CO050322	HRW	53.3	10.0	52.9	25.5	6/8
Thunder CL	HWW-C	52.9	9.5	55.2	26.3	6/10
UI Darwin	HWW	52.7	10.2	56.0	30.5	6/10
CO05W111	HWW	52.0	10.1	55.0	28.5	6/8
Bill Brown	HRW	51.5	10.1	52.2	26.7	6/4
IDO658	HWW	50.4	10.1	54.8	28.2	6/14
IDO656	HRW	50.1	9.2	50.2	31.2	6/10
Curlew	HRW	49.0	9.3	51.1	29.7	6/10
IDO835	HWW	48.9	10.5	52.3	26.3	6/15
IDO816	HRW	48.4	11.5	51.2	28.0	6/17
CO06424	HRW	48.3	10.3	53.0	27.7	6/3
CO050337-2	HRW	47.0	9.8	52.4	26.8	6/8
Deloris	HWW	46.3	9.6	53.0	29.3	6/10
Fairview	HRW	46.0	9.6	51.8	28.2	6/10
JC108	HWW	45.9	9.8	52.6	26.5	6/10
IDO821	HRW	44.7	9.6	54.1	26.8	6/13
Bond CL	HRW-C	44.2	9.7	52.2	29.8	6/3
Lucin CL	HRW-C	42.1	10.2	52.9	32.3	6/10
JC109	HRW	35.4	10.3	45.5	23.7	6/17
Average		51.1	9.9	53.2	28.0	6/8
CV (%)		11.2	5.9	2.5	4.1	
LSD <sub>.05</sub>		9.4	1.0	2.2	1.9	

<sup>1</sup> The trial was conducted at CSU's Southwestern Colorado Research Center.

<sup>2</sup> Grain yield adjusted to 12% moisture and 60 lb/bu test weight

<sup>3</sup> HRW: Hard Red Wheat; HWW: Hard White Wheat; C: Clearfield (resistant to 'Beyond' herbicide)

### Trial information

Seeded on 9/30/10 and harvested on 7/20/11

Fertilizer: 15 lb N + 73 lb P<sub>2</sub>O<sub>5</sub>/acre on 9/2/10

Previous crop: Fallow in 2009 & 2010

Rainfall (Oct. - June): 9.4 in. (Precipitation from snow may not be accurate)

### Comments

Soil moisture at wheat seeding was adequate. Fall precipitation was above average. January through March precipitation was well below average. Wheat stand and vegetative growth were excellent. However, dry conditions (0.1" from 21 May through 10 July) during the reproductive growth stages, especially flowering and grain filling, reduced seed size, test weight, and yield. Still, the mean yield of 51 bu/acre was above the area's average. Several experimental lines from Colorado State University's wheat breeding program performed in the top tier as did Hatcher, TAM 112, Ripper, Winterhawk, Snowmass (HWW) and above. Summer fallowing for two years (2009 & 2010) and fertilizer application in early September 2011 probably contributed to the above average grain yields.

**Dryland Winter Wheat Variety Trials at Yellow Jacket, CO**

**Multi-year averages**

Entry	Grain yield (bu/acre)	Grain protein (%)	Test weight (lb/bu)	Plant Height (in.)	Ending year	#years
CO050173	62.7		55.8	30.2	2011	1.0
CO06052	61.8		56.5	29.3	2011	1.0
CO03064-2	56.1	14.6	53.8	29.0	2009	1.0
CO050303-2	54.4		53.9	28.3	2011	1.0
CO050233-2	54.1		52.3	28.0	2011	1.0
CO050322	53.3		52.9	25.5	2011	1.0
CO05W111	52.0		55.0	28.5	2011	1.0
Ripper	49.9	12.6	55.3	25.5	2008-2011	4.0
IDO653	49.1	15.7	56.2	34.6	2008-2009	2.0
IDO835	48.9		52.3	26.3	2011	1.0
IDO816	48.4		51.2	28.0	2011	1.0
CO06424	48.3		53.0	27.7	2011	1.0
CO050337-2	47.0		52.4	26.8	2011	1.0
Winterhawk	46.7	12.5	58.2	26.0	2009-2011	3.0
Thunder CL	46.0	12.2	57.4	25.4	2009-2011	3.0
JC108	45.9		52.6	26.5	2011	1.0
Curlew	45.7	13.6	56.2	29.0	2008-2011	4.0
TAM 112	45.1	13.4	57.2	25.2	2008-2011	4.0
IDO821	44.7		54.1	26.8	2011	1.0
SRG	44.5	14.2	55.0	30.0	2009-2011	3.0
NuDakota	44.5	12.7	55.3	23.0	2008-2010	3.0
Bill Brown	44.4	12.6	56.2	24.6	2008-2011	4.0
Snowmass	44.1	12.6	56.2	27.4	2009-2011	3.0
Above	43.9	12.3	56.0	25.3	2008-2011	4.0
Hatcher	43.8	12.6	55.9	23.6	2008-2011	4.0
UI Silver	43.6	13.0	58.1	27.3	2009-2011	3.0

Entry	Grain yield (bu/acre)	Grain protein (%)	Test weight (lb/bu)	Plant Height (in.)	Ending year	#years
Keota	43.0	12.7	58.8	27.0	2008-2010	3.0
UI Darwin	42.6	14.1	58.9	29.4	2008-2011	4.0
Deloris	42.6	13.7	56.7	29.2	2008-2011	4.0
Fairview	42.4	13.2	55.8	27.7	2008-2011	4.0
Lucin CL	42.1		52.9	32.3	2011	1.0
Jagalene	42.0	14.0	59.1	25.8	2008-2010	3.0
Hawken	40.6	13.7	56.9	23.5	2008-2010	3.0
Bond CL	40.4	12.6	55.3	26.7	2008-2011	4.0
IDO641	39.8		57.6	25.3	2008	1.0
UICF Grace	39.0	13.7	55.3	33.5	2008-2010	3.0
Danby	38.9	13.9	60.0	25.0	2008-2010	3.0
IDO660	37.8	14.3	57.0	23.4	2009-2010	2.0
Avalanche	37.3	12.9	57.7	25.0	2008-2010	3.0
Golden Spike	36.9	13.6	57.7	26.8	2009-2010	2.0
JC109	35.4		45.5	23.7	2011	2.0
Gary	34.7	13.4	58.0	26.3	2008-2010	3.0
Hayden	33.4	14.5	59.9	31.6	2009-2010	2.0
IDO871	21.3	11.2	60.1	24.0	2010	1.0
IDO870	16.3	12.2	56.9	21.7	2010	1.0
IDO9120	11.4	13.7	57.5	21.3	2010	1.0
<b>Grand Total</b>	<b>42.7</b>	<b>13.3</b>	<b>56.5</b>	<b>26.8</b>		