

2013-2014 Dryland Winter Wheat Variety Trials at Yellow Jacket, CO¹

Entry	Type ²	Grain Yield (bu/acre) ³	Grain moisture (%)	Test weight (lb/bu)	Plant height (in.)	50% Heading Date
CO11D446	HRW	29.9	9.9	57.8	19.3	5/31
CO11D174	HRW	27.2	9.7	54.9	20.5	6/2
CO09W009	HWW	26.4	10.1	58.5	17.9	6/2
Denali	HRW	26.3	10.1	58.3	20.3	6/2
Snowmass	HWW	25.7	9.5	54.9	20.8	6/2
Brawl CL Plus	HRW CL2	24.8	9.7	59.5	20.9	5/30
CO11D346	HRW	24.8	9.8	55.2	21.9	6/2
Byrd	HRW	24.5	9.9	56.0	20.6	6/2
Antero	HWW	24.4	9.7	57.2	20.3	6/2
Ripper	HRW	24.0	9.4	56.2	15.9	5/29
Curlew	HRW	23.9	9.5	55.4	22.9	6/2
Hatcher	HRW	22.8	9.6	55.0	18.0	6/2
CO09W040-F1	HWW	22.5	9.7	53.7	20.5	5/30
UI SRG	HRW	22.5	9.5	52.1	20.8	6/5
Fairview	HRW	20.3	9.3	51.7	22.6	6/7
IDO1215	HWW	19.7	8.5	51.0	17.5	6/11 ⁴
Juniper	HWW	19.5	9.1	55.1	23.9	6/5
IDO1213	HWW	19.2	8.8	50.7	16.5	6/9
Deloris	HRW	18.9	9.3	53.4	21.1	6/4
Farnum	HRW	16.3	9.4	52.9	18.1	6/16 ⁴
IDO1103	HRW	16.1	9.2	50.3	16.4	6/9
Mean		22.9	9.5	54.7	19.8	
CV (%)		14.8	2.2	1.5	9.2	
LSD_{.05}		4.7	0.3	1.2	2.6	
LSD_{.3}		2.5	0.2	0.6	1.4	

¹ The trial was conducted at CSU's Southwestern Colorado Research Center in a RCB design with four replications. Plot size 6 ft x 40 ft.

² HRW: Hard Red Wheat; HWW: Hard White Wheat; CL: Clearfield (resistant to 'Beyond' herbicide)

³ Adjusted to 12 % moisture and 60 lb/bu

⁴ Most of the heads never completely emerged from the flag leaf.

Trial information

Previous crop	Summer fallow
Planting date	10/01/13
Seeding rate	700,000 seeds/ac
Harvest date	7/18/13
Fertilizer applied	None
Pesticide applied	None
Precipitation (planting to harvest)	8.1 inches
Comments	<p>Moisture at and following planting was adequate resulting in a good stand. December through April precipitation was below normal (2.7 vs. 6.1 in.). Above normal precipitation in May helped head setting but grain filling and seed size were negatively affected by the lack of precipitation in June. Consequently, the trial only averaged 22.9 bu/acre. Three Colorado experimental lines and Colorado varieties Denali and Snowmass performing the best. Test weights were generally in the low to mid 50s. Wheat yields were surprisingly lower in 2013-2014 than in 2012-2013 (22.9 vs 30.5 bu/acre on average) despite greater precipitation in the fall of 2013 and in February, April and May 2014. Only December and January had greater precipitation (2.80 vs 0.36 in) In 2012-2013 than in 2013-2014.</p>

2012-2014 Results Summary

Entry	Type ²	2014	2013	2012	Average
CO11D446	HRW	29.9			
CO11D174	HRW	27.2			
CO09W009	HWW	26.4			
Denali	HRW	26.3	30.2	29.4	28.6
Snowmass	HWW	25.7	30.9	27.8	28.1
CO11D346	HRW CL2	24.8			
Brawl CL Plus	HRW	24.8	32.2	30.6	29.2
Byrd	HRW	24.5	33.3	28.2	28.7
Antero	HWW	24.4			
Ripper	HRW	24.0	33.3	24.3	27.2
Curlew	HRW	23.9	28.9	29.9	27.6
Hatcher	HRW	22.8	30.9	25.1	26.3
UI SRG	HWW	22.5	31.2	26.5	26.7
CO09W040-F1	HRW	22.5			
Fairview	HRW	20.3	24.7	26.0	23.7
IDO1215	HWW	19.7			
Juniper	HWW	19.5	31.9		
IDO1213	HWW	19.2			
Deloris	HRW	18.9		25.7	
Farnum	HRW	16.3			
IDO1103	HRW	16.1	24.5		

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³ Adjusted to 12 % moisture and 60 lb/bu