

2009 dryland winter wheat performance trial at Yellow Jacket, CO.¹

Entry	Market Class²	Source	Grain yield³ bu/acre	Protein⁴ %	Plant Height (in)	Test weight lb/bu	Grain Moisture (%)	50% Heading Date⁵
Ripper	Hard red	CSU	70.9	14.1	27.4	55.7	7.1	27-May
Thunder CL	Hard white/CL	CSU	69.2	12.8	28.1	59.9	7.4	28-May
NuDakota	Hard white	Agripro	69.1	13.8	25.9	56.5	7.0	29-May
Winterhawk	Hard red	Westbred	66.2	13.7	27.5	59.5	7.5	29-May
Keota	Hard red	Westbred	65.8	13.5	30.4	59.9	7.7	30-May
Bill Brown	Hard red	CSU	64.3	13.9	27.8	57.4	7.5	30-May
Above	Hard red/CL	CSU	64.2	13.5	27.0	56.7	7.2	29-May
Fairview	Hard red	CSU/Idaho	63.9	14.4	30.1	56.3	7.0	4-Jun
Jagalene	Hard red	Agripro	63.7	14.7	28.6	61.2	7.6	1-Jun
TAM 112	Hard red	Watley Seed	62.9	14.5	27.6	56.9	6.9	29-May
UT9325-55	Hard red	Utah	62.5	14.6	31.6	58.3	7.1	2-Jun
Hawken	Hard red	Agripro	61.5	14.6	25.8	57.5	7.1	26-May
Avalanche	Hard white	CSU	60.7	13.6	28.9	59.3	7.5	30-May
Deloris	Hard red	Utah	60.7	14.9	31.5	57.2	7.4	4-Jun
IDO656	Hard red	Idaho	60.2	14.8	32.0	55.3	7.0	5-Jun
CO03W054-2	Hard white	CSU	60.2	13.9	30.5	56.7	7.4	30-May
IDO658	Hard white	Idaho	60.0	14.4	28.6	58.5	7.4	4-Jun
Hatcher	Hard red	CSU	59.9	13.5	25.3	57.4	7.5	29-May
Danby	Hard white	KSU	59.8	14.7	27.4	60.7	7.6	1-Jun
IDO660	Hard white	Idaho	57.9	15.4	24.9	57.5	6.8	2-Jun
UI Darwin	Hard white	Idaho	57.0	15.3	33.5	59.2	7.6	4-Jun
Golden Spike	Hard white	Utah	56.3	15.1	28.4	56.7	7.0	6-Jun
CO03064-2	Hard red	CSU	56.1	14.6	29.0	53.8	6.9	2-Jun
IDO653	Hard red CL	Idaho	55.7	15.7	36.4	57.4	7.8	5-Jun
IDO651	Hard white CL	Idaho	55.3	14.9	37.5	55.1	7.3	4-Jun
Bond CL	Hard red/CL	CSU	54.6	13.6	27.9	57.0	7.3	27-May
Gary	Hard white	Idaho	51.5	15.6	28.6	56.9	7.5	6-Jun
Hayden	Hard red	CSU/Idaho	48.8	16.0	34.4	59.1	7.7	5-Jun
		Average	60.7	14.4	29.4	57.6	7.3	-
		CV (%)	5.1	3.5	5.1	1.3	3.2	-
		LSD.05	4.3	1.1	2.1	1.1	0.3	-

¹Trial conducted at the Southwestern Colorado Research Center; seeded 9/22/08 and harvested 7/23/09.

²CL = Clearfield wheat (resistant to 'Beyond' herbicide).

³Bushel yield based on 60 lb/bu and adjusted to 12% moisture.

⁴Grain protein at 12% moisture. Data from replications 1 & 2 only

⁵Date 50% of plants headed.

Site information:

Soil type:	Wetherill clay loam
Previous crop:	2008: Camelina (was disked due to residual herbicide); Alfalfa prior to that
Seeding rate:	600,000 seeds/ac (50 lb/ac on 12-in. row spacing)
Fertilizer:	20 lb N/ac broadcast preplant
Herbicide:	None
Insecticide:	None
Precipitation:	Planting to harvest: 7.6 in.

Comments:

The 2009 dryland winter wheat trial produced some of the highest dryland seed yields ever obtained at the research center. Ripper, Thunder CL, and NuDakota outperformed Fairview. Grain protein averaged 14.4% (12.8-16.0). There was good rainfall prior (i.e., 2.2 inches in August) to planting and in the spring of 2009. There was no noticeable RWA or dwarf bunt infestation in 2009. Grasshoppers were present in significant numbers late in the season but did not seem to cause much damage to the wheat. In addition to timely precipitation, the 2009 winter wheat crop may have benefited from residual nitrogen due to the fallow period in 2008 and especially alfalfa prior to that.