

2010 Dryland Winter Wheat Variety Trial at Yellow Jacket, CO¹

Entry ²	Type ³	Grain yield ⁴	Grain protein ⁵	Test weight	50% Heading	Plant Height
		bu/acre	%	lb/bu	date	in.
IDO656 (SRG) ⁶	HR	24.6	13.5	58.3	22-Jun	26.0
Curlew	HR	24.3	12.6	58.9	19-Jun	25.3
Ripper	HR	22.9	11.1	56.5	13-Jun	21.7
IDO658 (UI Silver)	HW	22.1	11.7	60.3	22-Jun	24.7
Jagalene	HR	21.4	13.2	58.3	19-Jun	23.0
IDO651 ⁷ CL (UICF Grace)	HW	21.3	12.5	58.6	20-Jun	29.7
IDO871	HW	21.2	11.2	60.1	22-Jun	24.0
Deloris	HR	21.1	12.6	60.1	21-Jun	26.3
UI Darwin	HW	20.5	12.8	60.3	21-Jun	25.0
Winterhawk	HR	20.0	11.4	58.8	14-Jun	22.0
Snowmass	HW	19.5	11.3	57.3	17-Jun	22.0
Hatcher	HR	18.9	11.6	57.1	16-Jun	18.7
Hayden	HR	18.0	13.1	60.8	22-Jun	28.0
Gary	HW	17.9	11.3	59.7	24-Jun	22.7
Fairview	HR	17.6	12.0	59.3	22-Jun	24.0
IDO660	HW	17.6	13.1	56.6	20-Jun	21.3
Keota	HR	17.6	12.0	58.4	14-Jun	21.3
Hawken	HR	17.5	12.9	58.0	14-Jun	19.3
TAM 112	HR	17.5	12.3	58.5	17-Jun	19.7
NuDakota	HW	17.5	11.7	55.4	18-Jun	17.7
Thunder CL	HW	17.5	11.7	56.7	15-Jun	20.7
Bond CL	HR	17.5	11.5	57.0	15-Jun	21.3
Golden Spike	HW	17.4	12.1	58.7	24-Jun	24.7
Above CL	HR	17.0	11.2	56.8	14-Jun	20.3
Bill Brown	HR	16.7	11.3	58.1	13-Jun	18.7
IDO870	HW	16.3	12.2	56.9	24-Jun	21.7
Danby	HW	15.0	13.1	60.6	20-Jun	23.0
Avalanche	HW	14.9	12.3	57.5	16-Jun	18.3
IDO9120	HW	11.4	13.8	57.5	20-Jun	21.3
Average		18.7	12.2	58.3	-	22.5
CV (%)		17.1	3.9	-	-	5.7
LSD _{.05}		4.5	1.0	0.7	-	2.1

¹ The trial was conducted at CSU's Southwestern Colorado Research Center.

² CL: Clearfield (resistant to 'Beyond' herbicide)

³ HR: Hard Red; HW: Hard White

⁴ Grain yield adjusted to 12% moisture and 60 lb/bu test weight

⁵ Protein at 12% moisture

⁶ 'SRG' has good dwarf bunt resistance.

Trial information:

Seeded on 9/22/09 and harvested on 8/17/10

Fertilizer: 41 lb N + 21 lb P₂O₅/acre on 9/1/09

Previous crop: Fallow

Rainfall (seeding - harvest): ~ 9.5 in. Winter precipitation measurement may not be accurate.

Comments: Summer and fall 2009 precipitation was substantially below average resulting in poor wheat stand. Winter precipitation was above average but the spring of 2010 was unusually dry and cool, which negatively impacted grain formation. Seed yields were further depressed by competition from volunteer sunflower, Russian thistle, pigweed, and other weeds whose growth was favored by the poor wheat stand. Hand weeding was performed late in the season.

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Multi-year averages

Variety ²	Type ³	Grain yield ⁴		Test weight	
		2008-2010	2009-2010	2008-2010	2009-2010
		bu/acre	bu/acre	lb/bu	lb/bu
Ripper	HR	48.2	47.0	55.8	56.1
NuDakota	HW	44.5	43.4	55.3	55.9
Thunder CL	HW	NA	43.4	NA	58.3
Winterhawk	HR	NA	43.1	NA	59.2
SRG	HR	NA	42.4	NA	56.8
Keota	HR	43.0	41.7	58.8	59.2
UI Silver	HW	NA	41.0	NA	59.4
Bill Brown	HR	42.6	40.5	57.2	57.7
TAM 112	HR	42.0	40.2	57.7	57.7
Jagalene	HR	42.0	42.6	59.1	59.8
Deloris	HR	41.7	40.9	57.7	58.7
Fairview	HR	41.5	40.8	56.8	57.8
Above CL	HR	41.0	40.6	56.5	56.7
Snowmass	HW	NA	39.9	NA	57.0
Hawken	HR	40.6	39.6	56.9	57.7
Hatcher	HR	40.2	39.4	56.8	57.2
UI Darwin	HW	40.1	38.8	59.6	59.7
Golden Spike	HW	NA	36.9	NA	57.7
Bond CL	HR	39.5	36.0	56.0	57.0
UICF Grace	HW	39.0	38.3	55.3	56.9
Danby	HW	38.9	37.4	60.0	60.6
Avalanche	HW	37.3	37.8	57.7	58.4
Gary	HW	34.7	34.7	58.0	58.3
Hayden	HR	NA	33.4	NA	59.9
Mean		41.2	40.1	57.4	58.1
CV (%)		8.8	7.9	1.8	1.1
LSD _{.05}		2.9	3.2	0.8	0.6

¹ Trials conducted at CSU's Southwestern Colorado Research Center.

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⁴ Grain yield adjusted to 12% moisture and 60 lb/bu test weight

⁵ Protein at 12% moisture