Hard spring wheat variety performance trial at Center[1] in 2005.

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Variety	Wheat Type[2]	Grain Yield	Bushel Weight	Heading Date[3]	Grain Moisture	Plant Height	Grain Protein
		bu/ac	lbs/bu	(June)	%	in.	%
Plata	HWS	156.4	63.3	32.3	11.0	30.9	10.1
Lolo	HWS	155.5	60.2	32.5	16.0	36.0	10.6
IDO593	HRS	153.7	61.1	28.3	13.1	32.4	11.1
ID 377s	HWS	150.2	62.0	31.0	14.3	35.1	10.8
Jerome	HRS	146.0	60.9	28.3	14.1	35.1	11.5
Blanca Grande	HWS	144.1	64.2	27.3	10.7	30.0	11.4
Lochsa	HWS	142.9	60.8	31.5	12.4	35.1	10.9
Pristine	HWS	142.1	63.1	26.8	12.8	34.2	12.0
Oslo	HRS	140.4	61.0	29.0	12.1	34.2	10.7
Centennial	SWS	134.8	62.1	30.3	13.7	32.7	10.2
Matt	Durum	133.8	60.5	27.8	12.6	32.7	11.3
Snowcrest	HWS	133.0	62.4	27.3	10.3	27.6	10.7
Cavalier	HRS	130.7	61.9	27.5	10.4	27.9	12.0
98S0113-20	HRS	123.6	63.1	29.8	11.4	33.0	13.0
Yecora Rojo	HRS	117.1	62.7	25.5	10.7	24.3	12.0
WB881	Durum	111.1	59.8	29.5	14.8	29.7	11.7
Trial Average		**138.5**	**61.8**	**29.0**	**12.5**	**31.9**	**11.2**
$LSD_{(0.10)}$		10.7	0.83	0.90	1.02	1.79	0.93
CV%		6.5	1.1	2.6	6.9	4.7	7.0

[1]San Luis Valley Research Center, Center, CO. Grain yield based on 60 lbs/bushel and 12 % moisture.
[2]Wheat Types: SWS is soft white spring; HWS is hard white spring; HRS is hard red spring wheat.
[3]Tukey's Test: yields followed by the same letters are not statistically different.
[4]Days after June 1.

Site Information:

Previous Crop: potatoes
Date Planted: April 21
Irrigation: center pivot
Herbicide: MCP + Express
Nitrogen: 100preplant + 30 lbs/acre fertigation
Date Harvested: September 6
Seed Rate: 120 lbs/acre except durum at 150 lbs/acre
Row Spacing: 8-inch
Plot Size: 6 ft. x 35'; 9 rows planted 8 inches apart

Comments:

Vegetative growth was slow; this trial did not look good in the early season but came on strong later in the season and produced great yields. Variability was low; it was a good trial.

The top yield group this year included five hard red spring or hard white spring varieties: Plata a HWS from Resource Seeds, Lolo an Idaho HWS, IDO593 an experimental HRS, ID377s HWS from Idaho, and a new HRS release from Idaho named Jerome.

Six of the top eight varieties were hard white spring wheats. This kind of yield potential in hard white wheats provides an opportunity for SLV growers to produce this new wheat class. Growers should always make sure they have a market before planting hard white spring and make sure the product is segregated from all other wheat classes.

Grain protein content was low. It would have been higher if nitrogen were added at heading as intended. A combination of good yields with limited nitrogen and a lack of late nitrogen did not allow for high protein. However, all varieties were treated the same and the comparison should be viable.