

New Hard White Wheat Cultivar Released from Colorado State University

In early August 2009, the Colorado State University (CSU) Agricultural Experiment Station approved the release of a new hard white winter wheat variety from the CSU Wheat Breeding and Genetics Program. This new variety is the most recent addition to the group of wheat varieties developed by CSU and marketed by the Colorado Wheat Research Foundation.

The new variety, named '**Snowmass**', is a hard white winter wheat that combines high dryland yield, good test weight, an excellent disease resistance package, good sprouting tolerance, and exceptional milling and bread baking quality. In two years of statewide testing in the dryland Colorado Uniform Variety Performance Trial (UVPT, 2008-09), '**Snowmass**' had grain yields equivalent to the high yielding wheat variety 'Ripper' and superior to other popular varieties in Colorado. In three years of statewide testing in the Colorado Irrigated Variety Performance Trial (IVPT, 2007-09), '**Snowmass**' showed good yield at moderately high yield levels but inadequate straw strength for high-yield conditions.

Detailed information on '**Snowmass**' and other wheat varieties may be found at the home page of the CSU Wheat Breeding and Genetics Program (<http://wheat.colostate.edu>).

Important Characteristics of 'Snowmass'

- Top dryland yields, comparable to the popular varieties Ripper and Hatcher
- Good yield under moderate or limited-irrigation conditions, straw strength less than Hatcher
- Taller plant stature, about 2-3 inches taller than Hatcher and Ripper
- Heading date similar to Hatcher, 2 days later than Ripper
- Medium coleoptile, good fall stand establishment, good test weight
- Excellent overall disease resistance package - stripe and stem rust, wheat streak mosaic virus
- Sprout tolerance better than Platte, similar to Trego, less than Danby
- Exceptional milling and bread baking quality characteristics

2008-09 CSU Dryland Variety Trials (UVPT) (Ranked by Two-Year Average Grain Yield)				
Entry	2008	2009	Avg Yield	Avg TestWt
Ripper	48.8	57.3	54.1	59.7
Snowmass	47.9	57.6	54.0	60.7
Settler CL	48.8	56.9	53.9	60.0
NuDakota	47.3	56.4	53.0	59.0
Above	45.4	57.1	52.7	60.0
TAM 112	44.5	57.1	52.4	61.3
Bill Brown	45.7	56.2	52.3	60.8
Bond CL	42.5	57.8	52.1	59.3
Winterhawk	46.1	55.7	52.1	61.2
TAM 111	42.8	57.3	51.9	61.2
Hatcher	44.8	56.1	51.9	60.4
Infinity CL	44.3	55.3	51.2	60.0
Prairie Red	42.7	56.2	51.2	59.8
Smoky Hill	44.4	55.2	51.1	60.5
Trego	45.1	53.7	50.5	60.8
Camelot	43.6	54.2	50.2	60.2
Hawken	44.7	53.4	50.2	60.4
Danby	40.8	55.0	49.7	61.2
Fuller	43.4	52.1	48.9	59.6
Keota	42.5	52.3	48.7	59.0
Thunder CL	39.3	53.8	48.3	59.9
Jagger	42.5	51.2	47.9	59.7
Jagalene	41.1	51.7	47.7	60.4
Average	43.7	54.8	50.6	60.2
Locations	6	10	16	16

2007-09 CSU Irrigated Variety Trials (IVPT) (Ranked by Three-Year Average Grain Yield)					
Entry	2007	2008	2009	Avg Yield	Avg TestWt
NuDakota	94.8	99.5	83.0	92.4	58.4
Thunder CL	91.5	97.3	87.9	92.2	59.1
Bond CL	95.4	93.1	86.7	91.7	58.9
TAM 111	87.1	91.0	92.5	90.2	60.1
Jagalene	85.7	94.8	87.3	89.3	60.1
Snowmass	95.3	88.6	81.4	88.4	59.6
TAM 112	99.4	82.5	83.0	88.3	61.0
Bill Brown	95.6	86.9	80.9	87.8	59.7
Yuma	94.1	91.7	75.7	87.2	58.8
Keota	85.5	91.4	82.4	86.4	59.3
Hatcher	89.4	91.3	76.2	85.6	59.3
Prairie Red	77.0	91.1	87.9	85.3	59.3
Aspen	81.1	82.6	92.0	85.2	58.1
Hawken	85.9	90.6	74.9	83.8	59.5
Average	89.8	90.9	83.7	88.1	59.4
Locations	3	3	3	9	9