



1998 Colorado Spring Barley and Oats Variety Trial Results

Spring Oats Trial Results, SLV Research Center, Center, CO in 1998				
Cultivar	Grain Yield*	Bushel Weight	Heading Date	Plant Height
	bu/ac	lbs/bu	**	inches
Absp 19-9	216.5	41.8	31.8	45.3
Ab 1322	205.1	41.6	30.8	40.8
Powell	203.9	39.9	31.0	39.9
Monida	198.0	41.5	31.3	57.4
Ab 406	197.9	40.5	28.3	37.2
Absp 9-2	197.5	42.7	28.3	44.4
Ab 825	195.4	39.7	31.3	41.4
Ab 12743	191.5	40.7	28.5	40.5
Rio Grande	186.7	40.9	24.5	40.2
Ab 5125	182.1	41.5	30.5	41.4
Ajay	180.2	40.4	28.8	33.3
Ab 4983	175.8	41.4	22.3	33.3
Ab 502	165.3	41.5	22.5	37.5
Ab 3073	124.6	49.0	31.3	40.5
Average	187.2	41.6	28.6	40.2
CV%	7.99			
LSD _(.05)	21.4			

*Bushel yield based on 38 lbs/bushel and 12% moisture.

**Date 50% of the plants headed; days after June 1.

Site Information:

Location: Tom Myers Farm, 11 North & 4 East

Planting Date: April 6, 1998

Harvest Date: August 31, 1998

Previous Crop: potatoes

Fertilizer: Nitrogen @ 11 lbs. acre⁻¹; Phosphorus @ 52 lbs. acre⁻¹

Seeding Rate: @ 100 lbs. acre⁻¹

Soil Type: sandy loam

Irrigation: center pivot

Note: Lodging is usually a problem; however, no lodging this year may have made for very high yields. Harvest was unusually early; usually it is in September. Several experimental lines from USDA-ARS, Aberdeen, Idaho, look promising. Powell is a new release from ARS-Aberdeen and looks to perform really well here.

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Irrigated Feed and Malt Barley Variety Trial Results, SLV Research Center, Center, CO in 1998

Cultivar	Source	Grain Yield*	Test Weight	Grain Moisture	Heading Date	Grain Protein	Grain Screening
		bu/ac	lbs/bu	%	**	%	%
Ab 688	Aberdeen	184.2	48.6	10.9	19.5	8.3	9.0
Nebula	Westbred	178.9	46.2	12.2	29.0	8.9	5.4
Colter	Aberdeen	176.2	48.1	10.9	20.0	8.4	6.2
Ab 5189	Aberdeen	165.7	47.2	11.2	20.5	8.8	6.0
C28	Coors	161.9	51.6	11.0	25.5	9.4	3.5
6B93-2978	Aberdeen	161.3	49.9	11.0	21.0	9.2	2.6
Ab 1368	Aberdeen	160.7	49.0	10.8	18.5	9.1	1.6
Ab 3148	Aberdeen	160.1	51.4	11.2	19.8	9.8	1.6
Merit	Busch	158.6	50.1	12.5	26.5	7.9	3.7
Comarque	Colorado Seeds	158.5	51.9	11.2	27.0	8.9	3.2
Triumph	Colorado Seeds	157.9	51.4	12.3	28.5	9.0	4.5
Ab 3203	Aberdeen	154.9	52.6	11.7	23.5	9.5	1.3
Alexis	Rio Grande Commodities	153.7	51.9	11.9	29.0	8.8	2.4
Moravian 14	Coors	153.6	52.8	10.9	22.0	8.2	5.1

C19	Coors	153.4	52.3	11.8	26.8	8.7	2.7
Alexis	Rio Grande Commodities	152.5	51.8	11.7	28.8	8.8	3.8
C37	Coors	152.4	52.8	11.0	26.2	8.9	1.5
B1202	Busch	151.1	51.2	11.3	23.8	10.0	1.0
Ab 2323	Aberdeen	147.7	52.4	11.1	23.2	9.2	1.2
Harrington	Canada	146.3	52.0	11.2	23.8	9.0	1.6
Payette	Aberdeen	143.3	47.4	16.2	29.0	10.1	5.9
Garnet		141.2	52.6	11.5	25.2	9.4	1.0
Crystal II	Aberdeen	134.1	53.0	11.1	25.0	9.3	1.2
Ab 241	Aberdeen	130.3	51.5	11.3	23.8	9.8	1.6
Average		155.8	50.8	11.6	24.4	9.1	3.2
LSD _(.05)		12.8					

*Bushel yield based on 48 lbs/bushel and 12% moisture.

**Date 50% of the plants headed; days after June 1.

Site Information:

Planting Date: April 13, 1998

Harvest Date: August 13, 1998

Herbicide: Bronate @ 2 pt. acre⁻¹ on May 23

Fertilizer: Nitrogen @ 36 lbs. acre⁻¹

Irrigation: center pivot

Seeding Rate: @ 100 lbs. acre⁻¹

Harvested: 4' x 30'

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**Irrigated Feed and Hulless Barley Variety Trial Results,
Southwestern Colorado Research Center, Yellow Jacket,
CO in 1998**

Variety	Type	Source	Grain Yield*	Test Weight	Plant Height	Heading Date
			bu/ac	lbs/bu	inches	**
Baronesse	Feed	Western Plant Breeders	105.4	53.5	22	Jul 3

Stephoe	Feed	Washington State Univ.	98.5	48.0	25	Jun 29
Nebula	Feed	Western Plant Breeders	94.1	47.0	19	Jul 6
Westford	Forage	Western Plant Breeders	89.2	43.0	35	Jul 19
Stanwax	Hulless	Western Plant Breeders	80.3	58.5	28	Jun 29
Washford	Forage	Washington State Univ.	79.6	40.0	33	Jul 9
Bear	Hulless	Washington State Univ.	79.4	61.0	29	Jul 6
Merlin	Hulless	Western Plant Breeders	76.3	59.0	18	Jul 5
Average			87.9			
CV%			4.7			
LSD (.05)			293.0			

*Grain yield was not adjusted for moisture (all varieties <10% moisture at harvest)

**50% of the plants headed

Site Information:

Planting Date: May 4, 1998

Seeding Rate: @ 90 lbs. acre⁻¹

Threshing Date: August 31, 1998

Soil Type: Wetherill silty clay loam

Fertilizer: Nitrogen @ 120 lbs. acre⁻¹ + Phosphorus @ 40 lbs. acre⁻¹
(urea + 11-52-0) broadcast on April 21, 1998

Herbicide: Harmony Extra @ 1/2 oz. acre⁻¹ + 2,4-D amine @ 4 oz.
acre⁻¹ on June 18, 1998

Insecticide: Lorsban @ 1 pt. acre⁻¹ on June 18, 1998

Precipitation: 3.0 inches (May 4 - August 25)

Irrigation: 21 inches gross (7 sprinkler applications)

Previous Crop: Dry beans (fall chisel plowed)

Comments:

The 1998 growing season was drier than normal, however, temperatures were not unusually hot (highest recorded temperature was 95 F with only six days above 90 F). The trial was sprayed for Russian wheat aphid on June 18. None of the entries lodged. Nebulas' seed is yellow colored with awns that are difficult to remove with our plot combine. Washford and Westford are hooded barleys grown for forage. Westford threshed easier than Washford, although Westford had some green sucker heads at harvest. Loose smut was noted in Washford. The hulless barleys are grown for niche markets.

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