

# **WYOMING ALFALFA VARIETY YIELD TRIALS 2006**

Alan Gray

Variety Trial Coordinator/Extension Forage Specialist  
307-754-2223, (alangray@uwyo.edu).

Mike Killen

Farm Manager-Powell R & E Center

Kathy Parsons

Office Associate-Powell R & E Center

Randall Violet

Research Associate II-Powell R & E Center

Brad May

Assistant Farm Manager-Powell R & E Center

This is a summary of alfalfa variety yield trials harvested and reported in 2006 by the University of Wyoming Department of Plant Sciences. Yields within columns that differ by the least significant difference (LSD) or more are different at a probability level of 0.05. Percent coefficient of variability (CV) is a measure of the degree of experimental accuracy. To convert dry tons per acre to hay at 12% moisture, multiply tonnages by 1.136.

**Table 1. 2003 Irrigated Alfalfa Variety Trial, University of Wyoming Research and Extension Center, Powell, WY.**

Brand/Variety (Exp. Designation)	Source and contact info.	6/9/06	7/26/06	Yield in Tons/Acre Dry Matter					3-yr. Avg.	% of Ranger
				9/5/06	2006	2005	2004	3-yr.		
					Total	Total	Total	Total		
Mountaineer 2.0 (4M124)	Croplan Genetics-Curt Droogsma (406)860-1330	2.60	2.50	3.40	8.53	8.55	6.65	23.73	7.91	132
Boulder (4M125)	NK Brand- Joe Waldo (800)445-0956	2.70	2.30	3.10	8.14	8.25	6.64	23.03	7.68	129
54Q25	<a href="http://www.pioneer.com">www.pioneer.com</a>	2.80	2.30	3.00	8.16	7.81	6.12	22.09	7.36	123
Somerset	NK Brand- Joe Waldo (800)445-0956	2.60	2.20	2.90	7.75	7.99	6.30	22.04	7.35	123
6400 HT	<a href="http://www.garstseed.com">www.garstseed.com</a>	2.60	2.20	2.70	7.55	7.90	6.23	21.68	7.23	121
WL 319 HQ	<a href="http://www.wlresearch.com">www.wlresearch.com</a>	2.50	2.10	2.60	7.22	8.05	6.28	21.55	7.18	120
HybriForce 420	<a href="http://www.dairylandseed.com">www.dairylandseed.com</a>	2.40	2.00	2.80	7.21	7.40	6.17	20.78	6.93	116
Lander (WBRR)	Allied Seed- Gary White (877)574-7150	2.50	2.00	2.50	7.09	7.29	5.85	20.23	6.74	113
Fremont	Public	2.40	1.80	2.30	6.60	7.28	5.85	19.73	6.58	110
Wrangler	Public	2.10	1.80	2.40	6.30	6.68	5.69	18.67	6.22	104
Ranger	Public	2.30	1.90	2.40	6.58	6.19	5.15	17.92	5.97	100
Vernal	Public	2.00	1.70	2.00	5.83	6.51	5.56	17.90	5.97	100
Heinrichs	Public	2.40	1.70	2.00	6.14	5.82	5.11	17.07	5.69	95
Average		2.45	2.04	2.62	7.16	7.36	5.97	20.49	6.83	
LSD (0.05)		0.29	0.32	0.32	0.57	0.85	0.68			
CV (%)		13.36	18.06	16.88	13.15	8.00	7.90			

Dried for 48 hours at 60 degrees C. To convert dry ton per acre to hay at 12% moisture, multiply by 1.136.

**Establishment Procedure:** Seeded on 6-05-03 @ 24 lbs pure live seed per acre after 600lbs/A of 11-52-0 were soil incorporated.

Borders were seeded to Ranger. Trial was gravity-flow, flood irrigated.

**Elevation:** 4365 ft above sea level; 155 days above 28 degrees F.

**Soil Type:** Clay loam

**Exp. Design:** Randomized Complete Block, Four Replications, Yields differing by more than the LSD are different at odds of at least 19 to 1 but an LSD designation of N.S. indicates yield differences were not significant.

**Cooperators:** Alan Gray, Mike Killen, Randall Violett (307) 754-2223

