

Irrigated Alfalfa Variety Trial, University of Wyoming Research and Extension Center, Powell, WY. (Established 2007)

Variety Name	Source	6/21/10 1 st cutting	8/12/10 2 nd cutting	10/22/10 3 rd cutting	2010 DM Yield ton/acre	2009 DM Yield ton/acre	2008 DM Yield ton/acre	2007 DM Yield ton/acre	4-yr total DM Yield ton/acre	4-yr Avg. Yield	4-yr % of Ranger
Magnum VI	Dairyland	2.14	2.84	1.59	6.56	5.62	7.56	1.68	21.42	5.35	113
PGI 459	Producer's Choice	2.32	2.39	1.44	6.16	5.41	7.63	1.28	20.47	5.12	108
Impressive	UAP	2.08	2.44	1.03	5.55	5.74	7.71	1.46	20.46	5.12	108
Vernal	Public	2.18	2.27	1.21	5.66	5.30	7.92	1.48	20.36	5.09	108
Robin	Blue River Organic	2.20	2.88	1.41	6.49	5.38	7.19	1.26	20.32	5.08	108
Medalist	Intermountain Farmers	2.45	2.12	1.25	5.82	5.33	7.71	1.43	20.30	5.08	107
Integra 8300	Wilbur-Ellis Co	2.14	2.31	1.14	5.58	5.07	7.71	1.26	19.62	4.90	104
Integra 8400	Wilbur-Ellis Co	2.14	2.31	1.29	5.74	5.08	7.41	1.33	19.56	4.89	104
Masterpiece	JR Simplot Co	2.03	2.35	1.36	5.74	5.13	6.95	1.43	19.24	4.81	102
X101	Vance Vanderploeg	2.01	2.21	1.03	5.25	5.33	7.12	1.54	19.23	4.81	102
Melton	Public	1.87	2.21	1.06	5.14	5.37	7.14	1.51	19.16	4.79	101
Lander	Allied Seed	1.99	2.00	1.03	5.02	5.45	7.39	1.17	19.03	4.76	101
Ranger	Public	1.99	2.16	1.02	5.18	4.99	7.31	1.43	18.90	4.73	100
407TQ	America's Alfalfa	1.95	2.12	1.22	5.29	5.06	7.07	1.30	18.72	4.68	99
Lariat	JR Simplot Co	2.05	2.29	1.24	5.59	4.66	6.73	1.46	18.44	4.61	98
Ave for Trial		2.10	2.33	1.22	5.65	5.26	7.37	1.40	19.68		
LSD (0.05)					0.42	0.29	0.57	0.30			
CV (%)					9.65	13.36	8.00	2.33			

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 6-4-07 @ 18 lbs pure live seed per acre after 200lbs/A of 11-52-0 were soil incorporated.

Borders were seeded to Lander. Trial is gravity-flow, flood irrigated.

Elevation: 4365 ft above sea level; 145 days above 28 degrees F.

Soil Type: Clay loam

Exp Design : Completely randomized, Four Replications, Yields differing by more than the LSD are different at odds of at least 19 to 1.

An LSD designation of N.S. indicates yield differences were not significant.

2007 Management: Establishment year, did take one harvest stand is in excellent condition.

2008 management: Spring burned to remove litter from previous year to assist in irrigating. Applied 200lbs/A of 11-52-0 April 1, 2008. Irrigated with 13" of water, precipitation received was 4.64" for a total of 17.64" of water for entire growing season.

2009 management: Spring burned to remove litter from previous year to assist in irrigating. Applied 200lbs/A of 11-52-0 April 6, 2009. Irrigated with 12" of water, precipitation received was 4.02" for a total of 16.02" of water for entire growing season.

Conducted only two harvests because of sever early October freeze.

2010 management: Spring burned to remove litter from previous year to assist in irrigating. Harvested three times. Irrigated with 13" of water, precipitation received was 3.99" for a total of 16.99" of water for entire growing season.

Cooperators: Randall Violett & Mike Killen (307)754-2223