

2005 WSHGA & WSU
ALFALFA VARIETY
YIELD TRIALS
(Revised September 2007)

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Washington State Hay Growers Association/Washington State University Alfalfa Variety Trials

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Six alfalfa trials were harvested for yield in irrigated central Washington State in 2005. The Washington State Hay Growers Association (WSHGA) with cooperation by WSU conducted three trials near Othello, WA and three trials near Pasco, WA.

The Othello site is located on the WSU Othello research farm 6 miles ESE of Othello, WA at Lat: 46.7 Lng: 119.0 and at an elevation of 1154 feet. The Pasco sites are located on Glade Road and Columbia Basin College (CBC) at the north edge of Pasco, WA with the CBC site at Lat: 46.2 Lng: 119.1 and an elevation of 339 feet.

The soils were a Shano silt loam (coarse-silty, mixed-mesic Xerollic Camborthids) at Othello and sand to loamy sand (series undetermined) at Pasco. All trials were sprinkler irrigated throughout the April-October growing season. The frost-free day's (32°F) period extended 140 days from 6 June to 24 October at Othello, and 206 days from 4 April to 25 October at Pasco.

Each trial was arranged in a randomized complete block (RCB) design with 4 replications. All were seeded at about 15lbs/A in rows spaced 6 inches apart with a 1-foot interplot separation. Plot size is 4 x 14 feet. Some trials contained experimental entries, which are not available for commercial planting.

Forage yields for each harvest in 2004, the total yield in 2004, and the total for all years of the trials to date are reported in Tables 4 through 9. Yields were determined from whole plot fresh weights converted to a dry matter basis using a constant dry matter fraction.

Tables 1 and 2 are a summary of yields for alfalfa varieties currently on the market for the Pasco and Othello location. Yields are presented in percent of mean of the test for ease of comparison. Table 3 provides information on dormancy, pest resistance, and seed marketers for the same varieties.

¹ Extension Agronomist –WSU Pasco, Extension Agronomist – WSU Ephrata, Agricultural Research Technician – WSU Prosser, respectively.

Table 1: 2005 Summary of Alfalfa Yield Trials -- Pasco, Washington (varieties on the market)

Yield in % of mean of test

Entry	Pasco, Washington Seeded April 4, 1997					Pasco, Washington Seeded Sept. 4, 1997				Pasco, Washington Seeded September, 1998				Pasco, Washington Seeded August, 1999				Pasco, Washington Seeded August, 2000				Pasco, Washington Seeded August, 2001				Pasco, Washington Seeded August, 2002			
	1997 % of mean	1998 % of mean	1999 % of mean	2000 % of mean	4 yr. Percent of mean	1998 % of mean	1999 % of mean	2000 % of mean	3 yr. Percent of mean	1999 % of mean	2000 % of mean	2001 % of mean	3 yr. Percent of mean	2000 % of mean	2001 % of mean	2002 % of mean	3 yr. Percent of mean	2001 % of mean	2002 % of mean	2003 % of mean	3 yr. Percent of mean	2002 % of mean	2003 % of mean	2004 % of mean	3 yr. Percent of mean	2003 % of mean	2004 % of mean	2005 % of mean	3 yr. Percent of mean
512																													
6420						101.9%	97.2%	91.1%	97.0%																				
9429																													
5 Star																													
53V08	100.0%	103.4%	100.0%	96.7%	100.3%	101.0%	106.5%	112.2%	106.3%	102.5%	103.3%	109.2%	104.8%	103.5%	107.2%	111.3%	106.9%	103.4%	101.0%	110.6%	104.7%	94.3%	103.5%	104.9%	100.7%				
54Q25														101.7%	110.8%	116.3%	108.8%					101.2%	104.5%	111.0%	105.1%				
54Q53						99.0%	104.7%	111.1%	104.7%	105.1%	107.4%	106.1%	106.3%																
55H05																													
Abundance						111.5%	98.1%	97.8%	102.7%																				
Affinity+Z	97.8%	99.1%	103.0%	105.5%	101.7%																								
Alliant																													
Ameristand 403T																													
Archer II										101.7%	102.5%	101.0%	101.8%																
Attention																													
Baralfa 53 HR																													
Blazer XL																													
Cimarron SR																		99.1%	102.5%	98.5%	100.0%								
DKA42-15																						105.5%	107.4%	117.2%	109.3%				
Dynamic																													
Imperial																													
Innovator-Z										99.2%	99.2%	103.1%	100.3%																
Key																													
LeafMaster	104.3%	106.9%	110.0%	106.6%	107.4%																								
Lobo	104.3%	96.6%	90.0%	93.4%	94.9%																								
Magnum III																													
Magnum IV	108.7%	99.1%	88.0%	97.8%	96.9%	95.2%	97.2%	91.1%	94.7%																				
Magnum V										100.8%	95.9%	90.8%	96.2%									100.4%	101.3%	93.6%	98.7%				
Masterpiece																													
Millennia										103.4%	103.3%	108.2%	104.8%																
MP2000	104.3%	100.0%	101.0%	100.0%	100.8%																								
Perfect																													
Plumas	108.7%	103.4%	109.0%	113.2%	108.2%																								
Radiant																													
Rainier	97.8%	100.0%	105.0%	102.2%	101.7%																								
Rebound 4.2																													
Recover																													
Reward II																													
Samurai																													
Select																													
Stellar						101.0%	104.7%	110.0%	105.0%																				
Tango																													
Vernal						87.5%	81.3%	82.2%	83.7%	87.3%	85.1%	79.6%	84.3%	87.8%	83.8%	81.3%	84.6%	89.9%	90.9%	78.8%	87.0%	91.3%	79.7%	64.5%	79.7%	87.1%	73.2%	75.5%	79.8%
Vernema						98.1%	98.1%	92.2%	96.4%	99.2%	91.7%	82.7%	91.7%	102.6%	91.0%	88.8%	94.8%	94.5%	92.0%	87.5%	91.7%	100.5%	90.4%	76.8%	90.3%				
WinterGold																													
WL 327																													
WL 342																													
WL325HQ																													
XTRA-3	104.3%	100.0%	103.0%	103.3%	102.3%	104.8%	105.6%	107.8%	106.0%																				
AV-TIAC	4.6	11.6	10.0	9.1	8.8	10.4	10.7	9.0	10.0	11.8	12.1	9.8	11.2	11.5	11.1	8.0	10.2	10.4	8.7	7.7	9.0	8.1	9.3	8.7	8.7	9.9	8.1	4.6	7.5
LSD(0.05)	13.0%	7.8%	9.0%	11.0%	7.9%	7.7%	5.6%	8.9%	6.3%	3.4%	5.8%	8.2%	2.7%	6.1%	6.3%	6.3%	4.6%	9.15%	7.7%	7.2%	5.9%	8.59%	7.8%	7.18%	7.18%	5.50%	8.03%	6.51%	5.18%
CV(%)	9.4	5.3	6.5	7.9	5.1	5.5	3.7	6.3	4.7	2.5	4	5.7	2.4	4.5	4.5	4.8	3.3	6.4	5.4	5.0	4.1	6.3	5.4	5.0	5.0	3.8	5.6	4.5	3.6

Table 2: 2005 Summary of Alfalfa Yield Trials -- Othello, Washington (varieties on the market)

Yield in % of mean of test

Entry	Othello, Washington Seeded Aug. 20, 1996				Othello, Washington Seeded August 22, 1997				Othello, Washington Seeded March 31, 1999				Othello, Washington Seeded April, 2001				Othello, Washington Seeded August, 2001				Othello, Washington Seeded August, 2002				
	1997 % of mean	1998 % of mean	1999 % of mean	3 yr. Percent of mean	1998 % of mean	1999 % of mean	2000 % of mean	3 yr. Percent of mean	1999 % of mean	2000 % of mean	2001 % of mean	3 yr. Percent of Mean	2001 % of mean	2002 % of mean	2003 % of mean	3 Yr. Percent of mean	2002 % of mean	2003 % of mean	2004 % of mean	3 Yr. Percent of mean	2003 % of mean	2004 % of mean	2005 % of mean	3 Yr. Percent of mean	
512																									
6420					107.1%	109.0%	104.2%	106.9%					98.5%	104.3%	107.5%	105.2%	101.0%	101.9%	106.9%	102.6%					
9429																						101.3%	96.3%	93.7%	97.5%
53V08					103.5%	110.3%	108.3%	107.3%	95.2%	109.1%	112.9%	106.7%	101.5%	101.1%	106.2%	102.8%	102.2%	105.1%	112.9%	105.7%					
54Q25																	104.3%	106.2%	107.7%	105.7%	102.6%	108.2%	108.6%	106.1%	
54Q53					101.2%	103.8%	105.6%	103.4%	103.2%	102.3%	101.2%	102.1%													
55H05																					102.0%	110.2%	101.0%	104.0%	
A30-06																	98.6%	97.7%	90.7%	96.3%					
Abundance					104.7%	109.0%	105.6%	106.4%																	
Affinity+Z	103.3%	93.5%	101.4%	98.7%																					
Alliant																	105.2%	100.2%	103.5%	102.8%					
Ameristand 403T																	94.9%	95.8%	95.8%	95.3%					
Archer II	108.2%	105.4%	112.2%	108.3%					101.6%	105.7%	110.6%	106.3%													
Baralfa 42 IQ													96.2%	96.3%	97.5%	96.7%									
Blazer XL	100.0%	94.6%	90.5%	94.7%																					
Cimarron SR													100.0%	101.1%	98.2%	99.3%									
Dakota													100.0%	96.8%	94.8%	97.4%									
DK127	106.6%	104.3%	105.4%	105.3%																					
DK134								104.8%	100.0%	96.5%	100.0%														
DKA42-15																	103.7%	113.1%	113.8%	108.5%					
Dynamic																					107.0%	101.4%	94.9%	101.6%	
Emperor								96.8%	96.6%	96.5%	96.6%														
Evermore																					108.2%	106.3%	112.3%	108.9%	
Forecast 1001								103.2%	103.4%	105.9%	104.2%	104.4%	104.3%	102.6%	103.3%										
Forecast 3001												100.0%	100.0%	104.1%	101.4%										
Goliath												101.5%	100.0%	97.4%	99.8%										
Imperial	103.3%	100.0%	105.4%	102.6%																					
Innovator+Z								96.8%	97.7%	91.8%	95.3%														
Key	104.9%	98.9%	100.0%	100.9%																					
LeafMaster	100.0%	97.8%	100.0%	99.1%																					
LegenDairy 2.0	100.0%	92.5%	98.6%	96.5%																					
Maana 601																	98.1%	103.4%	109.9%	102.7%					
Maanum III	100.0%	98.9%	100.0%	99.6%																					
Maanum IV	106.6%	104.3%	112.2%	107.5%	95.3%	100.0%	98.6%	97.9%																	
Maanum V								101.6%	102.3%	101.2%	101.7%	104.4%	100.0%	102.4%	102.0%	103.2%	105.4%	108.6%	105.2%						
Millennia					100.0%	100.0%	102.4%	100.8%																	
MP2000	100.0%	103.2%	104.1%	102.6%																					
Perfect								98.4%	102.3%	100.0%	100.4%	102.7%	99.8%	102.8%	101.6%										
Plumas	104.9%	103.2%	102.7%	103.5%								97.1%	100.0%	99.6%	98.6%	97.6%	94.9%	93.3%	95.5%						
Radiant												100.0%	97.9%	98.0%	98.2%										
Rebel																99.9%	97.7%	92.3%	97.2%						
Rebound 4.2								106.3%	103.4%	105.9%	105.0%														
Reward II																	101.3%	102.0%	107.1%	102.8%	97.5%	91.2%	95.2%	95.0%	
Ruccus																									
Select								104.8%	102.3%	102.4%	102.9%					101.3%	102.0%	107.1%	102.8%						
Stellar					92.9%	105.1%	105.6%	100.9%																	
Tango																	104.6%	97.0%	102.6%	101.2%					
Vernal	85.2%	83.9%	81.1%	83.3%	87.1%	89.7%	91.7%	89.4%	95.2%	93.2%	89.4%	92.3%	86.8%	88.3%	82.2%	85.5%	85.8%	87.8%	80.4%	85.2%	82.2%	79.7%	80.4%	80.9%	
Vernema	96.7%	100.0%	97.3%	96.2%	97.6%	92.3%	93.1%	94.5%	98.4%	100.0%	98.8%	99.1%	100.0%	101.1%	93.8%	98.4%	96.6%	93.6%	89.5%	93.7%					
Vitro																					104.5%	100.0%	97.0%	100.9%	
WinterGold	108.2%	105.4%	120.3%	111.0%									102.9%	102.1%	100.8%	101.6%									
WL 319HQ																					107.2%	102.9%	103.8%	104.9%	
WL 327																	101.6%	100.6%	98.1%	100.3%					
WL 342																	108.9%	106.7%	107.0%	107.5%					
WL325HQ	109.8%	107.5%	116.2%	111.0%	97.6%	105.1%	108.3%	103.4%																	
AV-17AC	6.1	9.3	7.4	7.6	8.5	7.8	7.2	7.8	6.3	8.8	8.5	7.9	6.8	9.4	8.6	8.3	8.1	7.7	4.9	6.9	9.0	6.3	7.1	7.5	
LSD(0.05)	13.1%	8.6%	5.4%	6.6%	8.2%	5.1%	8.3%	8.9%	6.3%	4.5%	9.4%	6.8%	8.8%	5.3%	7.8%	3.4%	7.7%	7.9%	15.0%	8.0%	6.3%	11.0%	6.2%	6.1%	
CV(%)	9.3	6.1	10	4.7	5.9	3.7	5.4	3.4	4.4	3.2	6.5	4.7	5.9	3.8	5.4	3.6	5.4	5.6	10.4	5.6	4.4	7.7	4.4	4.2	

**Table 3: 2005 Fall Dormancy & Pest Resistance Ratings for Alfalfa Varieties
Commerically Available in Washington**

Variety	Contact for Marketing Information	FD	BW	VW	FW	AN	PRR	SAA	PA	BAA	SN	APH	SRKN	NRKN
Dynamic	Grassland Central/Grassland West	2	HR	HR	HR	HR	HR		R			HR		R
Vernal	Public	2	R	S	MR	S	S				SN	S		
53V08	Pioneer Hi-Bred International, Inc.	3	HR	HR	HR	HR	HR	R	HR	MR	HR	LR		HR
A30-06	PGI Alfalfa, Inc.	3	HR	HR	HR	HR	HR		R			HR		
Blazer XL	CROPLAN GENETICS	3	R	R	HR	HR	HR	HR	R		R	R		
Class	Union Seed Co.	3	HR	R	R	HR	HR	R	R	MR	R			
DKA33-16	Monsanto	3	HR	HR	HR	HR	HR	R	R			HR		R
Forecast 3001	Dairyland Seed Co., Inc.	3	HR	R	HR	R	HR		R		R	R		R
Innovator+Z	America's Alfalfa	3	HR	HR	HR	HR	HR	MR	R	S	R	R		
LeafMaster	Union Seed Co.	3	R	HR	HR	HR	HR	R	R		HR	MR		MR
LegenDairy 5.0	CROPLAN GENETICS	3	HR	HR	HR	HR	HR	R	R		MR	HR		R
MP2000	CROPLAN GENETICS	3	HR	R	HR	HR	HR	R	HR		R	HR		R
Rainier	Synqenta	3	HR	R	HR	HR	HR	HR	HR		R	HR		R
Samurai	ABI Alfalfa, Inc.	3	HR	R	HR	HR	HR	MR	R			R		
Somerset	Synqenta	3	HR	HR	HR	HR	HR	R			R	HR		
Vitro	Eureka Seeds, Inc.	3	HR	HR	HR	HR	HR	R	R		R	R		
WL 319HQ	W-L Research, Inc.	3	HR	HR	HR	HR	HR	R	HR		MR	HR		
WL 325HQ	W-L Research, Inc.	3	HR	R	HR	HR	HR	R	R	MR	R	R		
6420	Garst Seed Co.	4	HR	R	HR	R	HR	R	R		R	R		HR
9429	Eureka Seeds, Inc.	4	HR	R	HR	HR	HR	R	R	HR	R	HR		
54Q25	Pioneer Hi-Bred International, Inc.	4	HR	HR	HR	HR	HR	R	R		HR	R		HR
54Q53	Pioneer Hi-Bred International, Inc.	4	HR	HR	R	R	HR	MR	MR		HR	MR		HR
Abundance	BioPlantResearch/Ziller Seed Co.	4	HR	MR	HR	R	HR	R	R	MR		R		
Affinity+Z	America's Alfalfa	4	HR	HR	HR	HR	HR		R		R	R		
AmeriStand 403T	America's Alfalfa	4	HR	HR	HR	HR	HR	MR	R		MR	HR		
Baralfa 42 IQ	Barenbrug USA	4	HR	HR	HR	HR	HR	HR	R			HR		
Boulder	Synqenta	4	HR	HR	HR	HR	HR	HR	HR		HR	R		R
Bullseye	Target Seed, LLC	4	HR	HR	HR	HR	HR	MR	LR	MR	R	MR		HR
Cimarron SR	Great Plains Research Co., Inc.	4	HR	HR	HR	HR	HR	R	HR	MR	R	MR		R
DKA42-15	Monsanto	4	HR	HR	HR	HR	HR	R	HR		R	HR		
Emperor	ABI Alfalfa, Inc.	4	HR	HR	HR	HR	HR	MR	R			HR		
Forecast 1001	Dairyland Seed Co., Inc.	4	R	HR	R	R	R	MR	R	MR	R	R		HR
Key	Great Plains Research Co., Inc.	4	HR	HR	HR	HR	HR	HR	HR	MR	MR	MR	MR	
Magnum III	Dairyland Seed Co., Inc.	4	R	MR	R	MR	R	MR	R	MR	MR	LR		
Magnum IV	Dairyland Seed Co., Inc.	4	HR	R	HR	R	HR	MR		MR	R	MR		MR
Magnum V	Dairyland Seed Co., Inc.	4	HR	R	HR	R	HR	R	R	MR	R	MR		MR
Masterpiece	J. R. Simplot Company	4	HR	R	HR	HR	HR	HR		R	HR	R		R
Millennia	Union Seed Co.	4	HR	R	HR	HR	HR	R	R		HR	R		MR
Perfect	Grassland Central/Grassland West	4	HR	HR	HR	HR	HR	R	R		R	HR		
Plumas	Eureka Seeds, Inc.	4	HR	R	HR	HR	HR	R	R		HR	R		MR
Radiant	Ampac Seed Co.	4	HR	HR	HR	HR	HR	R	R		R	HR		
Rebound 4.2	CROPLAN GENETICS	4	HR	HR	HR	HR	HR	R	R		MR	HR		
Rebel	Target Seed, LLC	4	HR	HR	HR	HR	HR		HR	MR		HR		
Reward II	PGI Alfalfa, Inc.	4	HR	R	HR	R	HR	R	R	R	R	R		HR
Robust T&N	Gooding Seed Co., Inc.	4	R	HR	HR	HR	HR	R	HR	MR	HR	MR		R
Select	Union Seed Co.	4	HR	R	HR	HR	HR	R	R	MR	HR	R		R
Stellar	Chemgro Seeds	4	HR	HR	HR	HR	HR	R	R			LR		
Vernema	Public	4	MR	MR		LR	LR	MR			HR			
WinterGold	L&H Seeds/Renk Seed/Tri-West Seed	4		HR	HR	HR	R	R	R	HR	R	HR		
WL 327	W-L Research, Inc.	4	HR	R	HR	HR	HR	R	R	HR	R	HR		
WL 342	W-L Research, Inc.	4	HR	HR	HR	HR	HR	HR	HR		R	HR		
XTRA-3	Union Seed Co.	4	HR	R	HR	HR	HR	R	HR	R	HR	R		
512	Farm Valley Brand	5	HR	R	HR	HR	HR	R	R	HR	R	R		
55H05	Pioneer Hi-Bred International, Inc.	5	R	HR	R	HR	HR	HR	HR	HR	HR	R		HR
5-Star	CROPLAN GENETICS	5	R	R	HR	R	R	R	R	R	R	R		
Archer II	America's Alfalfa	5	R	HR	HR	HR	R	HR	MR	HR	HR			R
Baralfa 53HR	Barenbrug USA	5	HR	R	HR	HR	HR		R		R	HR		
DKA50-18	Monsanto	5	HR	HR	HR	HR	HR	R	R		R	HR		
Expedition	Synqenta	5	R	HR	HR	HR	HR	R			R	HR		R
Mountaineer 2.0	CROPLAN GENETICS	5	HR	R	HR	HR	HR	R	HR		HR	R		
Recover	Union Seed Co.	5	R	R	HR	R	R	R	R	R	R	R		
Ruccus	Target Seed, LLC	5	R	R	HR	MR	HR	R	R	LR	R			MR
WL 357HQ	W-L Research, Inc.	5	HR	HR	HR	HR	HR		HR			HR		
Lobo	Eureka Seeds, Inc.	6	MR	R	HR	R	R	R	R	R	R			R
Maqna 601	Dairyland SeedCo., Inc.	6	R	MR	HR	R	HR	HR	R		R	MR		R
Tango	Eureka Seeds, Inc.	6	MR	HR	HR	HR	HR	HR	HR	R	MR			R

FD Fall Dormancy
 BW Bacterial Wilt
 VW Verticillium Wilt
 FW Fusarium Wilt
 AN Anthracnose Race 1
 PRR Phytophthora Root Rot
 SAA Spotted Alfalfa Aphid

PA Pea Aphid
 BAA Blue Alfalfa Aphid
 SN Stem Nematode
 APH Aphanomyces
 SRKN Southern Root Knot Nematode
 NRKN Northern Root Knot Nematode

Blank spaces indicate variety is susceptible or has not been adequately tested.

Table 4: Three-Year Forage Yield: 2002 Alfalfa Variety Trial, Pasco, Franklin Co., WA.

Seeded 8/23/02 Entry	2005 Harvests				2004		2003		3-Year Total	Yield 3-Yr % mean	2003		2004	2005
	6-May Cut 1	7-Jun Cut 2	2005 Total	2005% mean	Total	mean	Total	mean			06/03/03 Rearowth	10/17/03 Rearowth	05/20/04 Rearowth	05/23/05 Rearowth
*FG 4A 135	3.0	1.9	4.9	106.5%	8.8	109.1%	9.9	100.5%	23.6	104.8%	6.3	7.0	6.5	8.8
54Q25	3.0	1.9	4.9	107.6%	8.4	103.9%	10.0	101.2%	23.3	103.4%	5.8	4.5	5.5	6.5
WL357HQ (FG5S43)	3.0	1.9	4.9	106.6%	8.5	105.2%	9.8	99.7%	23.2	103.1%	7.8	6.8	9.0	9.0
9429	2.9	1.8	4.7	101.3%	8.5	105.7%	9.8	99.5%	23.0	102.1%	5.5	5.5	5.8	6.8
Plumas	2.9	1.7	4.6	99.2%	8.2	101.4%	10.3	103.9%	23.0	102.1%	5.3	4.3	4.5	4.3
AL 366	2.9	1.8	4.7	102.2%	8.2	102.4%	10.0	100.9%	22.9	101.7%	5.0	5.0	5.3	6.8
55H05	2.9	1.8	4.6	100.4%	8.1	100.8%	10.0	101.6%	22.8	101.1%	7.8	8.8	7.3	7.8
Baralfa 53HR	2.9	1.8	4.7	102.9%	8.2	101.4%	9.9	99.9%	22.7	101.0%	6.8	8.0	8.0	7.5
Attention	3.0	1.8	4.8	104.1%	7.9	98.6%	10.0	101.1%	22.7	100.8%	7.0	7.3	7.8	9.0
Recover	2.7	1.6	4.3	94.6%	8.0	99.4%	10.2	103.4%	22.6	100.2%	6.8	7.0	7.8	7.5
Dynamic	2.9	1.7	4.5	98.9%	8.0	98.9%	10.0	101.1%	22.5	99.9%	5.5	3.8	4.0	4.8
Vernal	2.5	1.0	3.5	75.5%	5.9	73.2%	8.6	87.1%	18.0	79.8%	3.3	2.3	2.5	2.3
Mean	2.9	1.7	4.6	100.0%	8.1	100.0%	9.9	100.0%	22.5	100.0%	6.0	5.8	6.1	6.7
LSD 5%	0.22	0.13	0.30	6.51	0.65	8.03	0.54	5.50	1.17	5.18	1.32	1.10	1.23	1.31
CV %	5.2	5.3	4.5	4.5	5.6	5.6	3.8	3.8	3.6	3.61	15.2	13.1	13.8	13.5

*Planted as experimental

Regrowth ratings=9 tallest, 1 shortest

Table 5: Three-Year Forage Yield: 2002 Alfalfa Variety Trial, Othello, Grant Co., WA.

Seeded 8/23/02 Entry	Forage Yield (Tons DM/AC)										2003		Final %Stand		
	2005 Harvests				2005 Total	Percent mean	2004 Total	Percent mean	2003 Total	Percent mean	3-Year Total	3-Yr % mean		06/04/03 Regrowth	09/23/03 Regrowth
	12-May Cut 1	20-Jun Cut 2	26-Jul Cut 3	8-Sep Cut 4											
Evermore (4M76)	2.8	1.9	1.8	1.4	8.0	112.3%	6.7	106.3%	9.7	108.2%	24.3	108.9%	8.3	7.8	98
54Q25	2.7	1.9	1.8	1.4	7.7	108.6%	6.8	108.2%	9.2	102.6%	23.7	106.1%	8.3	7.8	94
WL 319HQ	2.6	1.8	1.7	1.3	7.4	103.8%	6.5	102.9%	9.6	107.2%	23.4	104.9%	8.3	7.8	96
55H05	2.5	1.8	1.6	1.2	7.2	101.0%	6.9	110.2%	9.2	102.0%	23.2	104.0%	8.5	7.5	96
Dynamic	2.3	1.6	1.6	1.2	6.7	94.9%	6.4	101.4%	9.6	107.0%	22.7	101.6%	8.0	7.3	96
*DS 201	2.6	2.0	1.8	1.4	7.8	109.5%	6.7	106.3%	8.2	91.0%	22.6	101.2%	7.0	7.3	96
Vitro	2.3	1.8	1.6	1.2	6.9	97.0%	6.3	100.0%	9.4	104.5%	22.5	100.9%	8.0	7.0	90
AL 366	2.3	1.7	1.5	1.3	6.8	96.1%	6.5	103.6%	9.1	101.1%	22.4	100.2%	7.8	7.0	94
Hybri Force 400	2.6	1.9	1.6	1.3	7.4	103.6%	6.1	96.8%	8.9	99.4%	22.4	100.0%	7.5	7.0	95
*DS 108	2.6	1.9	1.7	1.2	7.3	103.4%	6.2	99.2%	8.7	96.7%	22.2	99.5%	7.5	7.3	95
*DS 9809	2.5	1.8	1.6	1.2	7.1	100.7%	6.1	97.9%	8.9	99.6%	22.2	99.4%	7.8	7.3	96
9429	2.1	1.7	1.6	1.2	6.6	93.7%	6.1	96.3%	9.1	101.3%	21.8	97.5%	7.8	7.5	95
Reward II	2.4	1.7	1.5	1.1	6.8	95.2%	5.7	91.2%	8.7	97.5%	21.2	95.0%	7.5	7.0	89
Vernal	2.3	1.3	1.2	0.9	5.7	80.4%	5.0	79.7%	7.4	82.2%	18.1	80.9%	6.0	7.0	71
Mean	2.5	1.8	1.6	1.2	7.1	100.0%	6.3	100.0%	9.0	100.0%	22.4	100.0%	7.7	7.3	92.9
LSD 5%	0.3	0.2	0.2	0.1	0.4	6.2%	0.69	11.0%	0.57	6.3%	1.36	6.1%	0.7	1.1	6.44
CV %	8.5	7.0	6.8	8.3	4.4	4.4	7.7	7.7	4.4	4.4	4.2	4.2	6.8	10.9	4.8

*Planted as experimental

Table 6: Two-Year Forage Yield: 2003 Alfalfa Variety Trial, Pasco, Franklin Co., WA.

Entry	05 Harvests				2005 Total	2005% mean	2004 Total	2004% mean	2- Year Total	2-Yr % mean	7/30/04 Regrowth	6/21/05 Regrowth	10/18/05 Regrowth**
	7-Jun Cut 1	12- Jul Cut 2	9- Aug Cut 3	20- Sep Cut 4									
54Q25	2.1	2.0	1.7	1.1	6.9	104.0%	7.2	105.8%	14.1	104.9%	6.5	7.3	4.0
Boulder	1.9	2.1	1.7	1.2	6.8	103.2%	7.2	106.2%	14.1	104.7%	8.3	8.5	8.0
DKA50-18	1.9	2.1	1.7	1.2	6.9	103.3%	7.1	104.9%	14.0	104.1%	7.3	8.5	5.8
*Mountaineer 2.0 (FG4M124)	2.1	2.0	1.7	1.2	7.1	106.4%	6.9	101.4%	13.9	103.8%	7.5	6.3	7.8
SW 435	1.9	2.0	1.6	1.2	6.8	102.6%	6.8	100.5%	13.6	101.5%	8.0	7.8	7.3
Plumas	1.9	2.1	1.6	1.0	6.5	98.7%	7.1	104.1%	13.6	101.4%	5.8	5.5	3.0
Expedition	1.7	2.0	1.6	1.2	6.6	99.4%	6.9	101.2%	13.5	100.3%	7.8	9.0	6.0
DKA42-15	1.7	2.0	1.6	1.1	6.5	97.7%	7.0	102.7%	13.5	100.2%	6.8	8.5	6.0
AmeriStand 403T	2.0	2.0	1.5	1.0	6.5	98.2%	6.9	101.9%	13.4	100.1%	5.8	5.8	3.3
Bullseye	1.9	2.0	1.6	1.1	6.6	99.7%	6.8	100.2%	13.4	99.9%	5.3	5.5	3.5
Archer II	1.8	2.1	1.6	1.2	6.7	101.6%	6.6	97.3%	13.4	99.4%	6.3	6.5	7.0
Robust T&N	1.9	2.0	1.7	1.2	6.8	102.9%	6.3	93.1%	13.2	97.9%	7.0	5.8	8.5
512	1.8	2.0	1.6	1.1	6.5	97.5%	6.7	98.1%	13.1	97.9%	5.3	6.8	5.0
LegenDairy 5.0	1.8	2.0	1.6	1.1	6.5	97.2%	6.7	98.3%	13.1	97.8%	7.0	8.3	4.8
9429	1.7	2.0	1.6	1.0	6.3	95.6%	6.7	99.1%	13.1	97.4%	6.0	6.5	4.5
Vernal	1.9	1.8	1.4	0.9	6.1	92.1%	5.8	85.3%	11.9	88.6%	3.5	3.5	1.0
Mean	1.9	2.0	1.6	1.1	6.6	100.0%	6.8	100.0%	13.4	100.0%	6.5	6.9	5.3
LSD 5%	0.24	NS	NS	0.16	NS	NS	NS	NS	1.02	7.61	1.16	1.31	1.12
CV %	8.8	7.6	6.6	10.3	6.0	6.0	8.1	8.1	5.3	5.3	12.5	13.4	14.7

*Planted as experimental

** 9=12 inches, 1=4 inches

**Table 7: Two-Year Forage Yield: 2003 Alfalfa Variety Trial,
Othello, Grant Co., WA**

Entry	05 Harvests				2005 Total	2005% mean	2004 Total	2004% mean	2- Year Total	2-Yr % mean
	12- May Cut 1	20- Jun Cut 2	26- Jul Cut 3	8-Sep Cut 4						
DKA33-16	2.7	2.3	1.9	1.4	8.2	108.6%	7.5	111.1%	15.8	109.8%
LegenDairy 5.0	2.5	2.3	1.9	1.4	8.2	107.7%	7.6	111.1%	15.7	109.3%
DKA42-15	2.7	2.2	1.9	1.4	8.1	106.9%	7.4	108.7%	15.5	107.7%
Boulder	2.6	2.2	1.8	1.4	8.1	106.3%	7.3	107.0%	15.3	106.6%
WL 357HQ	2.4	2.2	1.8	1.3	7.8	102.2%	7.4	108.2%	15.1	105.0%
*Robust T & N	2.6	2.2	1.8	1.5	8.1	106.8%	6.9	101.1%	15.0	104.1%
Mountaineer 2.0 (FG4M124)	2.7	2.1	1.8	1.5	8.1	106.3%	6.8	100.4%	14.9	103.5%
Robust T & N	2.5	2.2	1.9	1.4	8.0	105.7%	6.7	99.3%	14.8	102.7%
Archer II	2.6	2.2	1.8	1.3	7.9	103.5%	6.8	99.9%	14.7	101.8%
**ML 05 - 3773	2.4	2.2	1.8	1.4	7.9	103.3%	6.8	100.0%	14.7	101.8%
54Q25	2.6	2.2	1.8	1.2	7.8	102.3%	6.8	100.5%	14.6	101.4%
Baralfa 321Q	2.5	2.1	1.7	1.1	7.5	98.3%	6.9	102.2%	14.4	100.1%
Somerset	2.5	1.9	1.7	1.3	7.4	96.9%	7.0	103.4%	14.4	99.9%
Plumas	2.5	1.9	1.6	1.4	7.4	97.8%	7.0	102.3%	14.4	99.9%
Baralfa 53HR	2.3	2.0	1.7	1.2	7.2	95.4%	6.9	101.0%	14.1	98.0%
HybriForce 420	2.4	2.1	1.7	1.3	7.5	99.1%	6.6	96.4%	14.1	97.8%
AmeriStand 403T	2.5	1.9	1.6	1.3	7.3	95.7%	6.7	98.5%	14.0	97.0%
Ranger	2.5	1.9	1.6	1.3	7.4	97.8%	6.5	95.2%	13.9	96.6%
Phirst	2.6	2.1	1.7	1.2	7.5	99.0%	6.4	93.7%	13.9	96.5%
512	2.5	2.1	1.7	1.3	7.5	99.1%	6.4	93.5%	13.9	96.5%
9429	2.3	1.8	1.6	1.1	6.8	89.3%	6.6	97.4%	13.4	93.1%
HybriForce 400	2.5	2.0	1.6	1.2	7.3	96.3%	6.0	89.0%	13.4	92.9%
Baralfa 54	2.3	1.8	1.6	1.3	7.0	91.8%	6.3	92.9%	13.3	92.3%
Vernal	2.1	1.7	1.4	1.2	6.4	84.1%	5.9	87.3%	12.3	85.6%
Mean	2.5	2.1	1.7	1.3	7.6	100.0%	6.8	100.0%	14.4	100.0%
LSD 5%	0.27	0.22	0.17	0.23	0.63	8.30	0.63	9.31	1.13	7.87
CV %	7.6	7.6	7.0	12.6	5.9	5.9	6.6	6.6	5.6	5.6

* treated with ryzocoat

** Experimental

Table 8: One-Year Forage Yield: 2004 Alfalfa Variety Trial, Pasco, Franklin Co., WA (Revised)

Entry	Forage Yield (Tons DM/Ac)				2005 Total	2005% mean	06/21/05 Regrowth	10/18/05 Regrowth*
	7-Jun Cut 1	12-Jul Cut 2	9-Aug Cut 3	20-Sep Cut 4				
Masterpiece	2.2	2.0	1.6	1.3	6.5	105.8%	7.3	5.3
AmeriStand 444NT	2.0	1.9	1.6	1.3	6.3	103.9%	7.5	6.8
*SW4328	2.0	2.0	1.6	1.2	6.3	103.1%	8.8	9.0
Perfect	2.0	2.0	1.6	1.2	6.2	102.2%	7.3	3.0
*SW3304	1.9	2.0	1.6	1.2	6.2	102.0%	8.0	7.0
*40W203	1.9	1.9	1.5	1.2	6.1	100.1%	8.0	6.8
Boulder	1.9	2.0	1.6	1.2	6.1	100.0%	8.0	6.0
54Q25	2.0	2.0	1.5	1.1	6.0	99.1%	6.5	3.8
*50W210	1.9	1.9	1.6	1.2	6.0	98.9%	9.0	7.0
512	2.0	1.9	1.5	1.1	6.0	98.5%	6.8	4.0
*SW4310	1.8	1.9	1.5	1.2	6.0	98.0%	8.3	8.5
WL 357HQ	1.8	1.9	1.5	1.2	6.0	97.7%	9.0	3.3
Vernal	2.1	1.9	1.4	1.1	5.9	97.4%	4.0	1.0
Rebound 5.0	1.9	1.8	1.5	1.1	5.9	96.3%	8.0	3.8
54H11	1.8	1.8	1.4	1.0	5.5	89.6%	6.8	1.8
Mean	1.9	1.9	1.5	1.2	6.1	100.0%	7.5	5.1
LSD 5%	0.17	NS	0.16	0.16	0.44	7.32	1.03	1.26
CV %	6.2	6.5	7.4	9.3	5.1	5.1	9.6	17.3

* 9=12 inches
1= 4 inches

**Table 9: One-Year Forage Yield: 2004 Alfalfa
Variety Trial, Othello, Grant Co., WA (Revised)**

Entry	05 Harvests						
	12- May	Date	Date	8-Sep	2005	2005%	10/05/05
	Cut 1	Cut 2	Cut 3	Cut 4	Total	mean	Regrowth**
Rebound 5.0	2.4	2.3	1.7	1.5	7.9	103.5%	8.8
*SW3304	2.5	2.0	1.8	1.5	7.8	103.0%	9.3
*40W203	2.5	2.1	1.8	1.4	7.8	102.8%	13.0
Boulder	2.5	2.1	1.8	1.4	7.8	102.4%	10.5
54Q25	2.5	2.1	1.7	1.4	7.7	101.2%	7.5
512	2.5	2.0	1.7	1.3	7.6	99.9%	7.5
HybriForce	2.4	2.0	1.8	1.4	7.6	99.7%	6.5
*41W204	2.3	2.1	1.7	1.4	7.5	99.0%	12.3
AmeriStand 444NT	2.4	2.0	1.7	1.4	7.5	98.5%	8.8
*DS218	2.3	1.9	1.7	1.5	7.5	98.3%	8.3
Vernal	2.4	1.7	1.4	1.2	6.7	88.4%	4.0
Mean	2.5	2.0	1.7	1.4	7.6	100.0%	8.8
LSD 5%	0.20	0.19	0.15	0.16	0.43	5.70%	1.2
CV %	5.6	6.6	6.1	8.1	4.0	4.0	9.3

* experimental

** Regrowth measured in inches