



2007

# Washington State Hay Growers Association

## ALFALFA VARIETY

## YIELD TRIALS

# Conducted by Washington State University Extension

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November 26, 2007





# Washington State Hay Growers Association Alfalfa Variety Trials

## Conducted by Washington State University Extension

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Six alfalfa trials were harvested for yield in irrigated central Washington State in 2007. The Washington State Hay Growers Association (WSHGA) sanctions the trials and contracts with Washington State University (WSU) Extension to conduct and report the research. Three trials are conducted 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: N46°47'41 Lng: W119°02'33 and at an elevation of 1154 feet. The Pasco site is located on Selph Landing Road about 8 miles North of Pasco, WA at Lat: N46°.19'75, Lng: W119°09'94 at an elevation of 457 feet.

The soils are 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 (32°F) period at Othello averages 180 days and 209 days at Pasco.

Each trial is arranged in a randomized complete block (RCB) design with 4 replications. All are seeded at about 15lbs/ac in rows spaced 6 inches apart with a 1-foot inter-plot separation. Plot size is 4 x 15 feet. The trials contain some experimental entries that are not available for commercial planting. Forage yields are taken for three years on each planting.

Forage yields for each harvest and total season yield for 2007 and the totals for all years of the trials to date are reported in Tables 4 through 9. Yields are determined from whole plot fresh weights converted to a dry matter basis using a constant dry matter fraction.

Tables 1 and 2 contain a summary of yields for alfalfa varieties that have been tested for three years at the Pasco and Othello locations. 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.

<sup>1</sup>.WSU Extension Educator, Franklin-Benton Counties, and WSU Extension Educator, Grant-Adams Counties, respectively.



**Table 1: 2007 Summary of Alfalfa Yield Trials -- Pasco, Washington (released varieties)**

Entry	Pasco, Washington				Pasco, Washington				Pasco, Washington				Pasco, Washington				Pasco, Washington				Pasco, Washington Seeded August									
	1999	2000	2001	3 Yr.	2000	2001	2002	3 Yr.	2001	2002	2003	3 Yr.	2002	2003	2004	3 Yr.	2003	2004	2005	3 Yr.	2004	2005	2006	3 Yr.	2005	2006	2007	3 Yr.		
512									99.3%	100.1%	105.5%	101.3%	106.1%	104.9%	108.7%	106.3%						98.1%	97.5%	94.0%	96.5%	98.5%	94.3%	90.9%	94.3%	
9429																	99.5%	105.7%	101.3%	102.1%	99.1%	95.6%	94.2%	96.3%						
5 Star																														
50W210																									98.9%	103.3%	114.8%	105.9%		
53V08	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%														
54H11																										89.6%	93.8%	97.5%	93.9%	
54Q25					101.7%	110.8%	116.3%	108.8%					101.2%	104.5%	111.0%	105.1%	101.2%	103.9%	107.6%	103.4%	105.8%	104.0%	101.1%	103.5%	99.0%	102.4%	99.9%	100.6%		
54Q53	105.1%	107.4%	106.1%	106.3%																										
55H05																			100.4%	101.1%										
Alliant													102.6%	99.7%	108.0%	102.9%														
Ameristand 403T													104.0%	102.3%	107.6%	104.3%						101.9%	98.2%	95.3%	98.4%					
Ameristand 444NT																										103.8%	102.6%	95.9%	100.7%	
Archer II	101.7%	102.5%	101.0%	101.8%																		97.3%	101.6%	97.0%	98.5%					
Baralfa 53 HR																						99.9%	101.4%	102.9%	101.0%					
Boulder																														
Bullseye																														
Cimarron SR									99.1%	102.5%	98.5%	100.0%																		
DKA42-15													105.5%	107.4%	117.2%	109.3%														
DKA50-18																														
Dynamic																														
Expedition																														
Innovator+Z	99.2%	99.2%	103.1%	100.3%																										
LegenDairy 5.0																														
Lobo	101.7%	96.7%	94.9%	98.0%	99.1%	96.4%	102.5%	99.0%	99.5%	99.9%	101.9%	100.4%																		
Magnum V	100.8%	95.9%	90.8%	96.2%					100.4%	101.3%	93.6%	98.7%																		
Masterpiece					105.2%	113.5%	122.5%	112.7%																			105.7%	99.9%	101.8%	102.2%
Millennia	103.4%	103.3%	108.2%	104.8%																										
Mountaineer 2.0																														
Perfect	104.2%	105.8%	116.3%	108.3%																										
Plumas					103.5%	108.1%	115.0%	108.2%	103.4%	102.4%	109.4%	104.8%	103.3%	105.1%	112.8%	106.5%	103.9%	101.4%	99.2%	102.1%	104.1%	98.7%	92.7%	98.3%						
Radiant									106.3%	100.1%	101.5%	102.9%																		
Rebound 4.2	101.7%	109.9%	116.3%	108.9%																										
Rebound 5.0																														
Recover																														
Reward II														103.4%	95.9%	93.2%	97.8%													
Robust T&N																														
Samurai					92.2%	98.2%	106.3%	98.0%																						
Select	104.2%	105.8%	105.1%	105.1%																										
SW3304																											102.0%	102.0%	100.9%	101.7%
SW4310																														
SW 4328																														
SW 435																														
Tango	101.7%	101.7%	101.0%	101.5%	103.5%	100.9%	102.5%	102.3%						100.3%	101.0%	100.9%	100.7%													
Vernal	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%	85.3%	92.1%	88.7%	88.7%	97.3%	89.6%	84.5%	90.1%		
Vernema	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%														
Whitney																														
WinterGold									106.9%	106.1%	107.6%	106.8%																		
WL 327					102.6%	104.5%	105.0%	103.9%						106.9%	101.6%	105.1%	104.3%													
WL 342														98.7%	107.9%	110.2%	105.3%													
WL 357HQ																														
XTRA-3									104.2%	104.8%	107.2%	105.3%																		
AV-TIAC	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	6.8	6.6	7.6	7.0	6.1	8.4	7.2	7.2		
LSD(0.05)	3.4%	5.8%	8.2%	2.7%	6.1%	6.3%	6.3%	4.6%	9.20%	7.7%	7.2%	5.9%	8.6%	7.8%	7.18%	7.2%	5.5%	8.0%	6.5%	5.2%	NS	NS	9.6%	5.8%	7.4%	5.9%	9.8%	5.7%		
CV(%)	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	8.1	6.0	6.7	4.0	5.1	4.1	6.8	4.0		

**Table 2: 2007 Summary of Alfalfa Yield Trials -- Othello, Washington (released varieties)**

Entry	Othello, Washington				Othello, Washington				Othello, Washington				Othello, Washington				Othello, Washington				Othello, Washington				Seeded	
	1999	2000	2001	3 Yr.	2001	2002	2003	3 Yr.	2002	2003	2004	3 Yr.	2003	2004	2005	3 Yr.	2004	2005	2006	3 Yr.	2005	2006	2007	3 Yr.		
512					98.5%	104.3%	107.5%	105.2%	101.0%	101.9%	106.9%	102.6%					93.5%	99.1%	99.2%	97.3%	99.70%	96.30%	94.70%	97.00%		
6420																										
9429													101.3%	96.3%	93.7%	97.5%	97.4%	89.3%	90.8%	92.4%						
53V08	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%	100.5%	102.3%	106.5%	103.1%	101.00%	102.30%	100.50%	101.30%		
55H05													102.0%	110.2%	101.0%	104.0%										
A30-06									98.6%	97.7%	90.7%	96.3%														
Abundance																										
Alliant									105.2%	100.2%	103.5%	102.8%														
AmeriStand 403T									94.9%	95.8%	95.8%	95.3%					98.5%	95.7%	96.4%	96.8%						
AmeriStand 444NT																					98.30%	95.90%	92.80%	95.80%		
Archer II	101.6%	105.7%	110.6%	106.3%													99.9%	103.5%	96.0%	100.0%						
Baralfa 321 Q																	102.2%	98.3%	97.9%	99.4%						
Baralfa 42 IQ					96.2%	96.3%	97.5%	96.7%																		
Baralfa 53HR																	101.0%	95.4%	94.7%	97.0%						
Baralfa 54																	92.9%	91.8%	86.4%	90.4%						
Boulder																	107.0%	106.3%	107.6%	106.9%						
Cimarron SR					100.0%	101.1%	98.2%	99.3%																		
Dakota					100.0%	96.8%	94.8%	97.4%																		
DK134	104.8%	100.0%	96.5%	100.0%																						
DKA33-16																	111.1%	108.6%	117.8%	112.3%						
DKA42-15									103.7%	113.1%	113.8%	108.5%					108.7%	106.9%	110.8%	108.7%						
DS218																					98.10%	99.80%	105.10%	100.90%		
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%										
FG41W204																					98.80%	107.00%	108.80%	104.70%		
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%																		
Hybri Force 400																	89.0%	96.3%	92.3%	92.7%						
Hybri Force 420																	96.4%	99.1%	100.3%	98.6%	99.60%	106.30%	107.20%	104.20%		
Innovator+Z	96.8%	97.7%	91.8%	95.3%																						
LegenDairy 5.0																	111.1%	107.7%	111.3%	109.9%						
Magna 601									98.1%	103.4%	109.9%	102.7%														
Magnum 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%																						
Mountaineer 2.0																	100.4%	106.3%	110.1%	105.6%						
Perfect	98.4%	102.3%	100.0%	100.4%	102.7%	99.8%	102.8%	101.6%																		
Phirst																	93.7%	99.0%	105.3%	99.3%						
Plumas					97.1%	100.0%	99.6%	98.6%	97.6%	94.9%	93.3%	95.5%				102.3%	97.8%	95.7%	98.6%							
Rebel									99.9%	97.7%	92.3%	97.2%														
Rebound 4.2	106.3%	103.4%	105.9%	105.0%																						
Rebound 5.0																					103.4%	113.5%	117.2%	111.1%		
Reward II													97.5%	91.2%	95.2%	95.0%										
Robust T & N																	99.3%	105.7%	104.7%	103.3%						
Ruccus									101.3%	102.0%	107.1%	102.8%														
Select	104.8%	102.3%	102.4%	102.9%																						
Somerset																	103.4%	96.9%	100.6%	100.1%						
SW3304																					102.80%	97.70%	93.90%	98.30%		
Tango									104.6%	97.0%	102.6%	101.2%														
Vernal	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%	87.3%	84.1%	67.9%	80.0%	88.20%	79.50%	71.00%	79.90%		
Vernema	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%										
Whitney																					102.60%	101.10%	107.90%	103.80%		
WinterGold					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%														
W L 342									108.9%	106.7%	107.0%	107.5%														
WL 357HQ																	108.2%	102.2%	104.3%	104.8%						
AV-TIAC	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	6.8	7.6	6.7	7.0	7.6	7.5	6.9	7.3		
LSD(0.05)	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%	9.3%	8.3%	8.6%	7.2%	7.7%	10.2%	12.1%	8.2%		
CV(%)	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	6.6	5.9	6.2	5.1	4	7.1	8.4	5.7		

Table 3: 2007 Fall Dormancy & Pest Resistance Ratings for Alfalfa Varieties in these Trials

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		MR
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	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
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	Syngenta	3	HR	R	HR	HR	HR	HR	HR		R	HR		R
Somerset	Syngenta	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		
9429	Eureka Seeds, Inc.	4	HR	R	HR	HR	HR	R	R	HR	R	HR		
54H11	Pioneer Hi-Bred International, Inc.	4	R	HR	HR	HR	R	R	R		R	HR		R
54Q25	Pioneer Hi-Bred International, Inc.	4	HR	HR	HR	HR	HR	R	R		HR	R		HR
Affinity+Z	America's Alfalfa	4	HR	HR	HR	HR	HR		R	R	R	R		
AmeriStand 403T	America's Alfalfa	4	HR	HR	HR	HR	HR	MR	R		MR	HR		
AmeriStand 444NT	America's Alfalfa	4	R	HR	HR	HR	HR	R	HR		HR	HR		HR
Baralfa 42 IQ	Barenbrug USA	4	HR	HR	HR	HR	HR	HR	R			HR		
Boulder	Syngenta	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	
Dakota	Grassland Central/Northstar Seed Ltd.	4	R	MR	R	MR	HR		R		MR		MR	MR
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
HybridForce 420/wet	Dairyland Seed Co., Inc.	4	HR	R	HR	R	HR	R	R		HR	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 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		
Phirst	Cascade Hybrid/Proseed Inc.	4	HR	R	HR	HR	HR	R	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		
Rebel	Target Seed, LLC	4	HR	HR	HR	HR	HR		HR	MR		HR		
Rebound 4.2	CROPLAN GENETICS	4	HR	HR	HR	HR	HR	R	R		MR	HR		
Rebound 5.0	CROPLAN GENETICS	4	HR	HR	HR	HR	HR	R	R		R	HR		R
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
SW 435	S&W Seed Co.	4	HR	R	HR	HR	HR	R	HR		HR	HR		R
Vernema	Public	4	MR	MR		LR	LR	MR			HR			
Whitney (FG40W203)	Eureka Seeds, Inc.	4	HR	HR	HR	HR	HR	R	HR		HR			HR
WinterGold	L&H Seeds/Renk Seed/Tri-West Seed	4	HR	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		
Evermore	Allied Seed/Southern States	5	HR	HR	HR	HR	HR	HR	R		R	HR		MR
Expedition	Syngenta	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
Magna 601	Dairyland SeedCo., Inc.	6	R	MR	HR	R	HR	HR	R		R	MR	R	R
Tango	Eureka Seeds, Inc.	6	MR	HR	HR	HR	HR	HR	HR	R	MR			R

<b>Variety</b>	<b>Contact for Marketing Information</b>	<b>FD</b>	<b>BW</b>	<b>VW</b>	<b>FW</b>	<b>AN</b>	<b>PRR</b>	<b>SAA</b>	<b>PA</b>	<b>BAA</b>	<b>SN</b>	<b>APH</b>	<b>SRKN</b>	<b>NRKN</b>
FD Fall Dormancy		PA	Pea Aphid	Blank spaces indicate variety is susceptible or has not been adequately tested										
BW Bacterial Wilt		BAA	Blue Alfalfa Aphid											
VW Verticillium Wilt		SN	Stem Nematode											
FW Fusarium Wilt		APH	Aphanomyces											
AN Anthracnose Race 1		SRKN	Southern Root Knot Nematode											
PRR Phytophthora Root Rot		NRKN	Northern Root Knot Nematode											
SAA Spotted Alfalfa Aphid														







**Table 5: Three-Year Forage Yield: 2004 Alfalfa Variety Trial, Othello, Grant Co., WA.**

Forage Yield (Tons DM/ac)														
Seeded 8/10/04	2005 Harvests		2006 Harvests		2007 Harvests				2007		3-year		2005	
	Total	2005% mean	Total	2006% mean	1-May Cut 1	26-Jun Cut 2	31-Jul Cut 3	18-Sep Cut 4	Total	2007 mean	Total	3-yr % Mean	5-Oct Regrowth	Final % Stand
Rebound 5.0	7.9	103.4%	8.5	113.5%	2.6	2.2	2.0	1.3	8.0	117.2%	24.4	111.1%	8.8	93.3
FG41W204	7.5	98.8%	8.0	107.0%	2.3	1.9	1.8	1.4	7.5	108.8%	23.0	104.7%	12.3	96.5
HybriForce 420/wet	7.6	99.6%	7.9	106.3%	2.4	2.0	1.7	1.3	7.4	107.2%	22.9	104.2%	6.5	93.5
Whitney (FG40W203)	7.8	102.6%	7.5	101.1%	2.3	1.9	1.7	1.4	7.4	107.9%	22.8	103.8%	13.0	92.8
54Q25	7.7	101.0%	7.6	102.3%	2.3	1.8	1.5	1.2	6.9	100.5%	22.2	101.3%	7.5	91.3
DS218	7.5	98.1%	7.4	99.8%	2.5	1.8	1.7	1.3	7.2	105.1%	22.1	100.9%	8.3	92.5
SW3304	7.8	102.8%	7.3	97.7%	2.0	1.7	1.5	1.2	6.4	93.9%	21.6	98.3%	9.3	94.8
Boulder	7.8	102.2%	7.3	97.9%	2.1	1.7	1.6	1.1	6.5	94.3%	21.6	98.3%	10.5	86.3
512	7.6	99.7%	7.2	96.3%	2.1	1.7	1.6	1.2	6.5	94.7%	21.3	97.0%	7.5	92.8
AmeriStand 444NT	7.5	98.3%	7.2	95.9%	2.1	1.6	1.4	1.2	6.4	92.8%	21.0	95.8%	8.8	88.0
Vernal	6.7	88.2%	5.9	79.5%	1.8	1.1	1.2	0.8	4.9	71.0%	17.5	79.9%	4.0	38.8
<b>Mean</b>	<b>7.6</b>	<b>100.0%</b>	<b>7.5</b>	<b>100.0%</b>	<b>2.2</b>	<b>1.8</b>	<b>1.6</b>	<b>1.2</b>	<b>6.9</b>	<b>100.0%</b>	<b>21.9</b>	<b>100.0%</b>	<b>8.9</b>	<b>80.0</b>
<b>LSD 5%</b>	<b>0.4</b>	<b>7.7</b>	<b>0.8</b>	<b>10.2</b>	<b>NS</b>	<b>0.3</b>	<b>0.2</b>	<b>0.2</b>	<b>0.8</b>	<b>12.1</b>	<b>1.8</b>	<b>8.2</b>	<b>1.2</b>	<b>12.7</b>
<b>CV %</b>	<b>4.0</b>	<b>4.0</b>	<b>7.1</b>	<b>7.1</b>	<b>9.0</b>	<b>11.0</b>	<b>9.0</b>	<b>11.9</b>	<b>8.4</b>	<b>8.4</b>	<b>5.7</b>	<b>5.7</b>	<b>9.1</b>	<b>11.1</b>







<b>Table 9: One-Year Forage Yield-2006 Alfalfa Variety Trial, Othello, Grant Co., WA</b>								
Forage Yield (DM Ton/ac)								
Seeded 8/26/03	2007 Harvests						Regrowth	
	5/13	6/17	7/20	8/27	2007	2007%	6/6/2007	9/25/2007
Entry	Cut 1	Cut 2	Cut 3	Cut 4	Total	mean	inches	inches
AmeriStand 407TQ	3.0	2.3	2.0	1.3	8.6	111.6%	13.8	7.8
CW34029	2.8	2.3	2.0	1.5	8.5	110.3%	14.8	7.5
Marvel	2.8	2.2	1.8	1.3	8.2	106.5%	13.5	6.8
SummerGold	2.9	2.2	1.7	1.4	8.2	106.5%	13.5	7.0
PGI 459	2.8	2.1	1.9	1.4	8.2	106.0%	15.8	7.3
Genoa	2.8	2.2	1.7	1.3	8.0	104.0%	14.5	6.8
Perform	2.8	2.1	1.7	1.3	8.0	103.2%	12.5	5.5
Whitney	2.7	2.3	1.6	1.3	7.9	102.0%	14.0	8.3
GrandStand	2.8	2.1	1.7	1.2	7.9	101.8%	13.8	5.5
DKA 41-18 RR	2.5	2.2	1.8	1.4	7.8	101.7%	15.3	7.0
WL 343 HQ	2.7	2.1	1.7	1.2	7.8	101.0%	15.3	6.5
Consistency 4.10 RR	2.6	2.2	1.8	1.3	7.8	100.6%	14.5	6.0
Rebound 5.0	2.8	2.1	1.7	1.2	7.8	100.6%	13.8	6.0
54V09	2.7	2.1	1.7	1.3	7.8	100.5%	13.8	5.8
Lariat	2.8	2.1	1.6	1.2	7.7	100.4%	14.0	5.5
Integra 8300	2.7	2.1	1.7	1.2	7.7	100.3%	14.5	5.3
PGI 424	2.7	2.0	1.7	1.3	7.7	100.2%	13.3	6.8
Maxi-Pro 3.10 RR	2.5	2.2	1.8	1.2	7.7	100.1%	12.5	4.8
DKA 34-17 RR	2.5	2.2	1.7	1.3	7.7	100.0%	14.3	6.0
DS417	2.7	2.1	1.7	1.2	7.7	99.7%	12.5	5.3
TS5010	2.6	2.1	1.6	1.3	7.7	99.5%	13.8	6.5
FSG 408 DP	2.7	2.0	1.7	1.3	7.6	98.6%	11.5	4.5
425 RR	2.4	2.1	1.8	1.2	7.5	97.8%	14.8	6.5
Everlast	2.7	2.0	1.6	1.1	7.5	97.0%	12.8	5.3
Vernema	2.7	1.9	1.6	1.3	7.5	96.9%	12.8	4.5
WL 355 RR	2.4	1.9	1.7	1.3	7.3	94.9%	13.8	6.8
USDA PMC Syn B	2.5	1.9	1.5	1.2	7.1	92.2%	11.3	3.8
4 R 200	2.4	1.9	1.6	1.2	7.1	91.7%	13.8	6.8
AmeriStand 405T RR	2.4	2.0	1.5	1.1	7.0	91.4%	13.5	4.0
Vernal	2.5	1.7	1.2	1.0	6.4	82.9%	9.3	3.8
<b>Mean</b>	<b>2.7</b>	<b>2.1</b>	<b>1.7</b>	<b>1.3</b>	<b>7.7</b>	<b>100.0%</b>	<b>13.6</b>	<b>6.0</b>
<b>LSD 5%</b>	<b>0.4</b>	<b>0.3</b>	<b>0.2</b>	<b>0.2</b>	<b>0.8</b>	<b>10.4%</b>	<b>0.6</b>	<b>1.3</b>
<b>CV 5%</b>	<b>8.5</b>	<b>8.8</b>	<b>7.7</b>	<b>8.7</b>	<b>6.4</b>	<b>6.4</b>	<b>10.1</b>	<b>13.9</b>