

New Mexico State University

2007 Alfalfa Forage Yield Trials

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Table 1. Results from the 2004 Artesia Alfalfa Forage Yield Trial for the 2005, 2006, and 2007 growing seasons.†

Variety Name	Company or Brand Name	Fall Dormancy	Yield (dry tons/acre)							Total Yield 2007	Three Year Average
			Total Yield 2005	Total Yield 2006	April 24 2007	June 1 2007	July 5 2007	August 9 2007	September 17 2007		
SW 6330	S & W Seed Co.	6	10.85	11.23	1.84	2.08	2.12	2.36	2.07	10.47	10.85
60M1053	Forage Genetics Int'l	6	11.13	11.00	2.00	2.04	2.19	1.99	1.63	9.84	10.66
SW 7410	S & W Seed Co.	7	10.88	10.51	1.81	1.57	2.34	2.04	2.10	9.85	10.41
57Q75	Pioneer Hi-Bred Int'l	7	10.32	10.86	1.75	2.22	2.34	1.77	1.88	9.95	10.38
AmeriLeaf 721	America's Alfalfa	7	10.97	10.60	1.98	1.82	2.43	1.75	1.58	9.56	10.37
NM0313	New Mexico State University	NA	10.56	10.41	1.85	2.03	2.20	1.96	2.08	10.12	10.36
NM0307	New Mexico State University	NA	9.56	11.04	1.73	1.87	2.40	2.04	2.45	10.48	10.36
SW 8718	S & W Seed Co.	8	11.10	10.35	1.58	1.85	2.18	1.75	1.96	9.32	10.25
Dona Ana	New Mexico State University	7	10.61	9.63	1.86	2.02	2.59	1.93	2.11	10.51	10.25
WL 530HQ	W-L Research	8	10.37	10.43	1.71	2.07	2.25	1.90	1.91	9.83	10.21
WL 625HQ	W-L Research	9	10.29	10.52	1.35	1.82	2.04	2.14	2.34	9.69	10.17
African Common	Roswell Seed Co.	NA	10.04	10.67	1.54	1.92	2.20	1.96	1.98	9.59	10.10
NM0311	New Mexico State University	NA	10.26	9.77	1.86	2.22	2.28	1.83	1.64	9.83	9.95
NM0306	New Mexico State University	NA	9.25	10.64	1.83	2.07	2.33	1.82	1.88	9.93	9.94
NM0310	New Mexico State University	NA	9.20	10.28	1.89	1.67	2.16	2.31	2.07	10.10	9.86
56S82	Pioneer Hi-Bred Int'l	6	10.36	9.67	1.87	1.79	2.15	2.05	1.52	9.38	9.80
ZS0300	America's Alfalfa	9	10.28	9.91	1.54	1.55	2.22	1.76	2.10	9.15	9.78
Expedition	Syngenta	5	9.90	9.52	1.82	1.77	2.39	2.15	1.62	9.75	9.72
Wilson	New Mexico State University	6	9.24	9.32	1.63	1.81	2.55	2.23	2.18	10.39	9.65
NM Common	Roswell Seed Co.	NA	8.55	9.95	1.50	2.12	2.43	2.12	2.19	10.36	9.62
NM0303	New Mexico State University	NA	9.32	9.58	1.68	1.94	2.35	1.83	2.06	9.85	9.58
D 93-70	America's Alfalfa	7	10.00	9.56	1.98	1.48	2.05	1.68	1.82	9.01	9.52
WL 357HQ	W-L Research	5	9.67	9.44	1.84	1.66	2.09	2.08	1.68	9.35	9.49
NM0312	New Mexico State University	NA	9.03	9.60	1.50	1.76	2.17	1.90	1.84	9.17	9.26
Mean			10.07	10.19	1.75	1.88	2.27	1.97	1.94	9.81	10.02
LSD (0.05)			1.05	1.03	0.19	NS	NS	NS	0.50	1.02	0.97
CV%			7.38	7.16	7.67	20.31	11.78	16.71	18.34	7.40	11.80

†Data were detrended using nearest neighbor analysis, and analyzed using analysis of variance.

Additional Information

Date of establishment: 9/8/2004
Irrigation method: Flood irrigated
Total irrigation amount = 42.0 inches. Total rainfall 13.4 inches
Number of reps: 4
Harvest dates: 2005: 5/9, 6/8, 7/5, 8/2, 9/2, 10/13
2006: 5/1, 5/31, 7/5, 8/3, 9/18, 10/24
2007: See harvest dates in table header.

Fertilizer: 11 lbs/acre of Nitrogen and 54 lbs/acre of P₂O₅ were applied in 2007.
Herbicide: No herbicide applied in 2007
Insecticide: No Insecticide applied in 2007

Table 2. Results from the 2004 Clovis Alfalfa Forage Yield Trial for the 2005, 2006, and 2007 growing seasons.†

Variety Name	Company or Brand Name	Fall Dormancy	Yield (dry tons/acre)									Total Yield 2007	Three Year Average
			Total Yield 2005	Total Yield 2006	May 29 2007	June 25 2007	July 24 2007	August 16 2007	September 12 2007	November 9 2007			
NC+605	NC+Hybrids	6	9.69	8.39	2.04	1.92	1.63	1.15	1.46	0.63	8.83	8.97	
Expedition	Syngenta	5	10.17	7.93	2.13	1.99	1.61	1.01	1.51	0.49	8.73	8.94	
WL 530HQ	W-L Research	8	10.21	8.01	1.90	1.98	1.59	1.20	1.29	0.62	8.58	8.93	
AmeriLeaf 721	America's Alfalfa	7	10.16	8.08	2.06	1.84	1.57	1.06	1.35	0.58	8.45	8.89	
Medallion	Seed Resource	7	9.89	7.87	1.92	1.90	1.59	1.12	1.32	0.56	8.41	8.72	
WL 357HQ	W-L Research	5	9.56	8.12	1.80	1.90	1.49	1.11	1.45	0.52	8.27	8.65	
FGI 4S42	Forage Genetics Int'l	4	9.40	8.19	2.08	1.97	1.43	1.05	1.32	0.50	8.34	8.64	
Cimmaron VL400	Great Plains	4	9.47	8.10	2.14	1.78	1.35	0.90	1.29	0.47	7.93	8.50	
SW 6330	S & W Seed Co.	6	9.71	7.59	1.87	1.90	1.49	1.03	1.28	0.53	8.09	8.46	
55H05	Pioneer Hi-Bred Int'l	5	9.18	7.99	2.01	1.95	1.41	1.01	1.28	0.50	8.16	8.44	
Dona Ana	New Mexico State University	7	9.54	7.76	1.97	1.80	1.43	1.03	1.19	0.61	8.02	8.44	
56S82	Pioneer Hi-Bred Int'l	6	9.59	7.67	1.93	1.86	1.42	1.01	1.33	0.50	8.06	8.44	
NM0307	New Mexico State University	NA	8.85	8.08	1.89	1.90	1.53	1.12	1.25	0.69	8.38	8.44	
African Common	Roswell Seed Co.	NA	9.43	7.46	1.79	1.76	1.62	1.22	1.41	0.48	8.28	8.39	
NM0306	New Mexico State University	NA	8.95	8.15	1.89	1.74	1.55	1.04	1.26	0.58	8.06	8.38	
SW 7410	S & W Seed Co.	7	9.25	7.56	1.81	1.88	1.50	1.14	1.34	0.57	8.23	8.34	
5-Star	Croplan Genetics	5	8.96	7.58	1.96	1.93	1.49	1.02	1.40	0.55	8.34	8.29	
NM0312	New Mexico State University	NA	9.40	7.48	2.04	1.77	1.31	0.98	1.31	0.56	7.96	8.28	
SW 8718	S & W Seed Co.	8	9.44	7.36	1.82	1.61	1.51	1.16	1.41	0.45	7.95	8.25	
NM Common	Roswell Seed Co.	NA	8.74	7.71	1.78	1.67	1.54	1.08	1.36	0.49	7.91	8.12	
Wilson	New Mexico State University	6	9.07	7.40	1.77	1.67	1.44	1.08	1.29	0.48	7.73	8.07	
NM0311	New Mexico State University	NA	8.71	7.47	1.81	1.84	1.48	1.05	1.30	0.56	8.02	8.06	
NM0314	New Mexico State University	NA	8.14	7.42	1.85	1.81	1.42	0.99	1.23	0.58	7.87	7.81	
NM0310	New Mexico State University	NA	8.23	7.28	1.71	1.78	1.43	0.99	1.16	0.64	7.69	7.73	
Mean			9.32	7.78	1.91	1.84	1.49	1.06	1.32	0.55	8.18	8.42	
LSD (0.05)			0.91	0.71	0.24	0.18	0.20	0.17	NS	NS	0.75	0.76	
CV%			6.90	6.47	9.04	6.94	9.28	11.56	11.93	21.65	6.50	11.15	

†Data were detrended using nearest neighbor analysis, and analyzed using analysis of variance.

Additional Information

Date of establishment: 9/17/2004
Irrigation method: Flood irrigated
4 inches every week after 6/1/2007
Number of reps: 4
Harvest dates: 2005: 5/27, 6/23, 7/19, 8/19, 9/13, 11/2
2006: 5/11, 6/6, 6/27, 7/19, 8/25, 10/31
2007: See harvest dates in table header.

Fertilizer: 175 lbs/acre of 11-52-0; 50 lbs/acre or Sulfur; and 10 lbs/acre or Chelated EDTA were applied on 3/19/2007
Herbicide: 1.44 ounces/acre of Pursuit DG were applied on 3/19/2007 for weed control.
4 pints/acre of Treflan HFP were applied on 3/20/2007 for weed prevention.
Insecticide: 2 pints/acre of Lorsban 4E were applied on 4/27/2007 for insect control.

Table 3. Results from the 2004 Farmington Alfalfa Forage Yield Trial for the 2004, 2005, 2006, and 2007 growing seasons.†

Variety Name	Company or Brand Name	Fall Dormancy	Yield (dry tons/acre)								Four Year Average
			Total Yield 2004	Total Yield 2005	Total Yield 2006	June 4 2007	July 11 2007	August 15 2007	October 2 2007	Total Yield 2007	
Mountaineer 2.0	Croplan Genetics	5	4.56	9.54	10.63	3.53	2.90	2.52	2.15	11.09	8.95
Ranger	Public	3	3.83	10.28	10.57	4.03	2.94	2.32	1.82	11.10	8.94
HybriForce 420Wet	Dairyland Seed Co.	4	3.70	9.50	10.67	3.60	3.03	2.49	2.01	11.12	8.74
Boulder	Syngenta	4	4.06	9.80	9.99	3.78	3.03	2.30	1.94	11.05	8.72
Archer II	America's Alfalfa	5	4.26	9.52	10.28	3.82	2.56	2.41	1.97	10.75	8.70
54Q25	Pioneer Hi-Bred Int'l	4	4.05	9.19	10.77	3.64	2.60	2.56	1.88	10.67	8.67
Legend	Arkansas Valley Seed	4	4.13	9.46	9.77	3.69	2.83	2.36	1.89	10.77	8.53
Wilson	New Mexico State University	6	4.12	9.37	10.04	3.24	2.58	2.49	1.95	10.26	8.44
XTRA-3	Union Seed	4	3.86	9.07	9.76	3.55	2.57	2.53	1.93	10.58	8.32
Reward II	PGI Alfalfa	4	4.25	8.79	10.06	3.51	2.40	2.34	1.81	10.05	8.29
6530	Garst Seed Co.	5	3.73	8.56	10.38	3.19	2.76	2.21	1.74	9.90	8.14
ZL 9981	America's Alfalfa	7	4.36	8.60	9.64	3.19	2.42	2.35	1.87	9.82	8.10
6400 HT	Garst Seed Co.	4	3.49	8.95	9.69	3.47	2.67	2.14	1.68	9.96	8.02
WL 357HQ	W-L Research	5	3.40	8.86	9.66	3.33	2.78	2.23	1.58	9.91	7.96
AmeriStand 403T	America's Alfalfa	4	3.46	8.40	9.60	3.38	2.47	2.40	1.67	9.92	7.85
Dona Ana	New Mexico State University	7	4.58	8.66	7.71	2.95	2.37	2.36	1.57	9.26	7.55
NM Common	Roswell Seed Co.	NA	4.04	7.54	7.58	2.87	2.04	2.14	1.43	8.49	6.91
African Common	Roswell Seed Co.	NA	4.30	7.87	6.72	2.79	2.04	2.06	1.31	8.20	6.77
Mean			4.01	9.00	9.64	3.42	2.61	2.34	1.79	10.16	8.20
LSD (0.05)			0.51	0.93	1.67	0.58	0.49	NS	0.21	1.19	0.99
CV%			9.01	7.27	12.19	12.10	13.36	13.51	8.60	8.26	17.13

†Data were detrended using nearest neighbor analysis, and analyzed using analysis of variance.

Additional Information

Date of establishment: 5/4/2004
 Irrigation method: Solid set sprinkler lines with irrigation starting 4/18/2007
 Irrigation frequency: Three times per week for 3 to 4 hours at a rate of 0.3 inches per hour
 Number of reps: 4
 Harvest dates: 2004: 7/13, 8/30, 10/21
 2005: 6/1, 7/6, 8/18, 10/14
 2006: 5/31, 7/11, 8/15, 10/18
 2007: See harvest dates in table header.

Fertilizer: 200 lbs. of 5-23-27 were applied on 3/20/2007
 Herbicide: No herbicide applied in 2007
 Insecticide: No Insecticide applied in 2007

Table 4. Results from the 2005 Farmington Alfalfa Forage Yield Trial for the 2006 and 2007 growing seasons.†

Variety Name	Company or Brand Name	Fall Dormancy	Yield (dry tons/acre)					Total Yield 2007	Two Year Average
			Total Yield 2006	May 31 2007	July 10 2007	August 14 2007	October 3 2007		
FSG505	Allied Seed L.L.C.	5	6.64	1.40	2.44	2.35	1.76	7.95	7.30
FSG408DP	Allied Seed L.L.C.	4	6.29	1.71	2.59	2.22	1.73	8.25	7.27
NM0307	New Mexico State University	NA	6.02	1.65	2.22	2.56	1.84	8.27	7.14
FSG351	Allied Seed L.L.C.	3	5.99	1.75	2.48	2.30	1.70	8.23	7.11
55H05	Pioneer Hi-Bred Int'l	5	5.96	1.57	2.36	2.50	1.81	8.23	7.10
AA204W	America's Alfalfa	7	6.12	1.67	2.40	2.26	1.73	8.05	7.09
Escalade	Allied Seed L.L.C.	5	5.84	1.73	2.64	2.25	1.69	8.31	7.07
Legend	Arkansas Valley Seed	4	5.91	1.93	2.48	2.14	1.68	8.22	7.07
56S82	Pioneer Hi-Bred Int'l	6	5.53	1.61	2.55	2.41	2.05	8.60	7.06
Archer II	America's Alfalfa	5	6.33	1.44	2.16	2.15	1.72	7.47	6.90
WL 357HQ	W-L Research	5	6.10	1.45	2.12	2.25	1.56	7.38	6.74
AA206W	America's Alfalfa	5	6.24	1.34	1.86	2.16	1.77	7.12	6.68
AA205W	America's Alfalfa	5	5.81	1.50	2.16	1.96	1.78	7.40	6.61
NM0314	New Mexico State University	NA	5.64	1.34	2.21	2.12	1.76	7.42	6.53
NM Common	Roswell Seed Co.	NA	5.84	1.19	2.12	1.97	1.80	7.08	6.46
Ranger	Public	3	5.22	1.43	2.22	2.26	1.62	7.53	6.38
FGI-41W206	Forage Genetics Int'l		5.34	1.13	2.26	2.20	1.71	7.30	6.32
FSG406	Allied Seed L.L.C.	4	4.90	1.58	2.50	2.04	1.45	7.57	6.23
Genoa	Syngenta	4	5.35	1.49	2.07	1.85	1.48	6.88	6.12
Dona Ana	New Mexico State University	7	5.61	1.08	1.95	1.84	1.30	6.18	5.89
Wilson	New Mexico State University	6	4.76	1.33	2.00	2.05	1.61	6.99	5.88
African Common	Roswell Seed Co.	NA	5.20	1.31	1.67	2.00	1.40	6.39	5.79
Mean			5.76	1.48	2.25	2.17	1.68	7.58	6.67
LSD (0.05)			0.67	0.39	0.48	0.32	0.33	1.20	0.89
CV%			8.29	19.03	15.19	10.52	14.05	11.20	13.36

†Data were detrended using nearest neighbor analysis, and analyzed using analysis of variance.

Additional Information

Date of establishment: 8/24/2005
 Irrigation method: Solid set sprinkler lines with irrigation starting 4/18/2007
 Irrigation frequency: Three times per week for 3 to 4 hours at a rate of 0.3 inches per hour
 Number of reps: 4
 Harvest dates: 2006: 6/28, 8/8, 10/19
 2007: See harvest dates in table header.

Fertilizer: 200 lbs. of 5-23-27 were applied on 3/20/2007
 Herbicide: No herbicide was applied in 2007
 Insecticide: No insecticide was applied in 2007

Table 5. Results from the 2003 Las Cruces Alfalfa Forage Yield Trial for the 2004, 2005, 2006, and 2007 growing seasons.†

Variety Name	Company or Brand Name	Fall Dormancy	Yield (dry tons/acre)								Total Yield 2007	Four Year Average
			Total Yield 2004	Total Yield 2005	Total Yield 2006	May 8 2007	June 4 2007	July 10 2007	August 7 2007			
NM0306	New Mexico State University	NA	9.80	10.77	11.35	2.61	1.90	1.87	1.62	7.99	9.98	
NM0307	New Mexico State University	NA	10.02	9.40	10.93	2.55	1.85	1.83	1.55	7.78	9.53	
DS 266HYB	Dairyland Seed Co.	6	10.12	9.66	10.48	2.68	1.74	1.77	1.55	7.74	9.50	
NM0310	New Mexico State University	NA	9.46	9.87	11.08	2.48	1.80	1.75	1.54	7.56	9.49	
WL 530HQ	W-L Research	8	10.04	10.09	10.46	2.37	1.77	1.59	1.42	7.15	9.44	
58N57	Pioneer Hi-Bred Int'l	8	9.89	9.73	10.68	2.28	1.78	1.76	1.55	7.37	9.42	
DS 8181	Dairyland Seed Co.	8	9.85	9.75	10.81	2.18	1.71	1.72	1.56	7.17	9.39	
NM0309	New Mexico State University	NA	9.78	9.63	10.66	2.56	1.76	1.62	1.53	7.46	9.38	
AmeriStand 802	America's Alfalfa	8	9.28	9.76	10.74	2.43	1.89	1.83	1.54	7.68	9.37	
ZS9898	America's Alfalfa	8	9.57	9.24	10.86	2.43	1.69	1.69	1.47	7.28	9.24	
NM0311	New Mexico State University	NA	9.11	9.59	10.53	2.34	1.75	1.75	1.61	7.44	9.17	
DS 218HYB	Dairyland Seed Co.	6	9.54	9.44	10.44	2.51	1.62	1.60	1.46	7.19	9.15	
NM0308	New Mexico State University	NA	9.11	9.16	10.61	2.60	1.82	1.78	1.48	7.68	9.14	
NM0302	New Mexico State University	NA	9.71	9.38	10.05	2.34	1.63	1.65	1.47	7.08	9.05	
WI 643	Univ. Wisconsin	NA	10.04	9.31	9.39	2.45	1.68	1.63	1.43	7.19	8.98	
56S82	Pioneer Hi-Bred Int'l	6	9.77	8.81	9.19	2.37	1.69	1.47	1.34	6.86	8.66	
Dona Ana	New Mexico State University	7	8.59	8.75	10.01	2.19	1.73	1.74	1.47	7.13	8.62	
Magna 801FQ	Dairyland Seed Co.	8	9.13	8.78	9.72	2.06	1.50	1.64	1.38	6.59	8.55	
ZL9981	America's Alfalfa	7	8.75	8.77	10.00	2.08	1.59	1.58	1.41	6.66	8.54	
NM0303	New Mexico State University	NA	8.94	8.47	9.77	2.28	1.58	1.61	1.51	6.97	8.54	
AmeriLeaf 721	America's Alfalfa	7	9.08	8.84	9.57	2.20	1.53	1.51	1.38	6.61	8.53	
59N49	Pioneer Hi-Bred Int'l	9	9.04	9.03	9.47	2.00	1.49	1.55	1.32	6.35	8.47	
ZG9898A	America's Alfalfa	7	9.14	9.04	9.43	2.14	1.41	1.45	1.28	6.27	8.47	
Cimarron VL400	Great Plains	4	8.85	8.20	9.84	2.47	1.55	1.46	1.23	6.72	8.40	
57Q75	Pioneer Hi-Bred Int'l	7	9.01	9.13	8.95	2.06	1.50	1.50	1.32	6.37	8.36	
NM0305	New Mexico State University	NA	8.87	8.68	9.48	2.17	1.59	1.32	1.32	6.39	8.36	
ZX9898B	America's Alfalfa	9	8.77	8.63	9.10	1.82	1.32	1.45	1.22	5.81	8.08	
NM0304	New Mexico State University	NA	9.10	8.29	8.67	2.15	1.35	1.34	1.25	6.09	8.04	
Wilson	New Mexico State University	6	8.91	8.04	8.74	2.17	1.54	1.42	1.21	6.33	8.01	
13-R Supreme	America's Alfalfa	8	8.86	8.77	8.74	1.77	1.26	1.36	1.20	5.58	7.99	
AmeriStand 801S	America's Alfalfa	8	8.95	8.40	8.61	1.94	1.33	1.44	1.27	5.98	7.98	
Mesa	PGI Alfalfa	8	8.67	7.99	8.85	1.82	1.38	1.39	1.27	5.86	7.84	
NM0316	New Mexico State University	NA	9.81	7.98	8.15	1.92	1.16	1.19	1.05	5.32	7.81	
5715	Pioneer Hi-Bred Int'l	8	8.75	8.22	8.35	1.89	1.38	1.36	1.23	5.85	7.79	
NM0312	New Mexico State University	NA	8.51	7.02	8.71	2.22	1.51	1.48	1.14	6.34	7.65	
NM0315	New Mexico State University	NA	8.99	7.76	8.49	1.96	1.12	1.07	0.85	5.00	7.56	
Mean			9.27	8.95	9.75	2.23	1.58	1.56	1.37	6.74	8.68	
LSD (0.05)			0.64	1.07	1.07	0.32	0.21	0.18	0.17	0.73	0.85	
CV%			4.91	8.50	7.83	10.11	9.24	8.20	8.59	7.73	13.96	

†Data were detrended using nearest neighbor analysis, and analyzed using analysis of variance.

Additional Information:

Date of establishment: 9/18/2003
 Irrigation method: Flood Irrigation approximately every 14 days
 Number of reps: 4
 Harvest dates: 2004: 4/28, 6/2, 7/7, 8/4, 9/16, 11/4
 2005: 5/12, 6/14, 7/19, 8/26, 9/28, 11/8
 2006: 5/2, 6/6, 7/13, 9/22, 11/10
 2007: See harvest dates in table header.

Comment: Only 4 harvests were taken in 2007
 Fertilizer: No fertilizer applied in 2007
 Herbicide: No Herbicide applied in 2007
 Insecticide: 4 ounces/acre of Warrior were applied on 3/20/2007 to control for alfalfa weevil.

Table 6. Results from the 2003 Los Lunas Forage Yield Trial for the 2004, 2005, 2006, and 2007 growing seasons.†

Variety Name	Company or Brand Name	Fall Dormancy	Yield (dry tons/acre)								Total Yield 2007	Four Year Average
			Total Yield 2004	Total Yield 2005	Total Yield 2006	May 25 2007	July 6 2007	August 20 2007	October 9 2007			
Reward II 6530	PGI Alfalfa Garst Seed Co.	4	6.06	7.77	6.37	2.58	2.37	1.97	1.15	8.07	7.07	
HybriForce 600	Dairyland Seed Co.	6	5.61	7.64	6.40	2.59	2.38	1.86	1.35	8.19	6.96	
Archer II	America's Alfalfa	5	5.70	6.81	5.75	2.46	2.11	1.90	1.32	7.79	6.51	
T1F02	Great Plains	7	5.24	6.86	5.89	2.78	2.19	1.77	1.05	7.79	6.44	
WL 357HQ	W-L Research	5	4.90	6.97	5.75	2.48	2.38	1.93	1.12	7.91	6.38	
HybriForce 620	Dairyland Seed Co.	7	5.38	6.95	5.70	2.08	2.20	1.76	1.16	7.20	6.31	
AmeriStand 403T	America's Alfalfa	4	4.96	6.50	5.80	2.44	2.35	1.91	1.11	7.80	6.27	
African Common	Roswell Seed Co.	NA	5.01	6.92	5.61	2.35	2.26	1.77	1.13	7.51	6.26	
HybriForce 420Wet	Dairyland Seed Co.	4	5.36	6.27	5.55	2.37	2.32	1.94	1.20	7.83	6.25	
DS 266HYB	Dairyland Seed Co.	6	5.23	6.32	5.18	2.18	1.96	1.56	1.06	6.75	5.87	
Wilson	New Mexico State University	6	4.90	6.00	5.04	1.96	1.96	1.57	0.94	6.43	5.59	
Mean			5.35	6.88	5.78	2.39	2.24	1.83	1.15	7.61	6.12	
LSD (0.05)			NS	NS	NS	NS	NS	NS	NS	NS	0.99	
CV%			18.49	13.49	15.44	14.77	13.80	15.82	17.38	13.37	22.63	

†Analyzed using analysis of variance.

Additional Information

Date of establishment: 9/22/2003
 Irrigation method: Flood irrigation: Approximately twice per cutting
 Irrigation totals: 30 inches total irrigation with 6.3 inches precipitation during the growing season
 Number of reps: 4
 Harvest dates: 2004: 5/17, 6/28, 8/10, 10/25
 2005: 5/23, 7/5, 8/2, 9/12, 10/24
 2006: 5/16, 6/22, 8/10, 10/2
 2007: See harvest dates in table header.

Comment: Severe soil heterogeneity was evident in this study in 2004 and 2005
 Fertilizer: 250 lbs/acre of 5-25-21-10 were applied on 3/15/2007
 Herbicides: 4 ounces/acre of Pursuit and 4 pints/acre of Treflan were applied on 3/19/2007 for weed control
 Insecticide: 3 ounces/acre of Warrior were applied on 4/22/2007 for insect control

Table 7. Results from the 2005 Los Lunas Alfalfa Forage Yield Trial for the 2006 and 2007 growing seasons. †

Variety Name	Company or Brand Name	Fall Dormancy	Yield (dry tons/acre)					Total Yield 2007	Two Year Average
			Total Yield 2006	May 24 2007	July 9 2007	August 20 2007	October 9 2007		
AA206W	America's Alfalfa	5	3.48	2.22	2.44	1.70	0.98	7.34	5.41
WL 357HQ	W-L Research	5	3.48	2.32	2.36	1.62	1.01	7.30	5.39
Wilson	New Mexico State University	6	3.82	2.03	2.38	1.44	1.00	6.85	5.33
Cimarron VL400	Great Plains	4	3.28	2.41	2.30	1.50	0.88	7.08	5.18
Mountaineer 2.0	Croplan Genetics	5	3.26	2.22	2.33	1.53	0.89	6.98	5.12
MP04	Great Plains	5	3.32	2.33	2.19	1.50	0.79	6.81	5.07
AA205W	America's Alfalfa	5	3.53	2.00	2.14	1.45	0.95	6.54	5.03
AA204W	America's Alfalfa	7	3.51	1.79	2.17	1.53	0.95	6.43	4.97
NM Common	Roswell Seed Co.	NA	3.54	1.88	2.08	1.46	0.94	6.34	4.94
African Common	Roswell Seed Co.	NA	3.19	1.92	2.14	1.50	0.91	6.47	4.83
Mean			3.77	2.11	2.25	1.52	0.93	6.81	5.13
LSD (0.05)			NS	0.27	NS	NS	NS	0.66	NS
CV%			13.58	8.80	11.25	7.80	10.77	6.71	16.34

†Analyzed using analysis of variance.

Additional Information

Date of establishment: 9/27/2005
 Irrigation method: Flood irrigation: Approximately twice per cutting
 Irrigation totals: 30 inches total irrigation with 6.3 inches precipitation during the growing season
 Number of reps: 4
 Harvest dates: 2006: 6/9, 7/21, 8/7, 10/18
 2007: See harvest dates in table header.

Comment: Stand failure occurred primarily because of Sandhill Crane and Canadian Geese grazing after plant emergence.
 The stand was interseeded successfully on 3/21/2006
 Fertilizer: 250 lbs/acre of 5-25-21-10 were applied on 3/15/2007
 Herbicide: 4 ounces/acre of Pursuit and 4 pints/acre of Treflan were applied on 3/19/2007
 Insecticide: 3 ounces/acre of Warrior were applied on 4/22/2007 for insect control

Table 8. Results from the 2005 Tucumcari Alfalfa Forage Yield Trial for the 2006 and 2007 growing seasons.†

Variety Name	Company or Brand Name	Fall Dormancy	Yield (dry tons/acre)							Total Yield 2007	Two Year Average
			Total Yield 2006	May 29 2007	June 25 2007	July 24 2007	August 21 2007	September 18 2007	October 29 2007		
RSC751, Lot N536-5A	Roth Seed Co.	7	3.23	1.05	1.44	1.33	0.99	0.40	0.73	4.88	4.06
Wilson	New Mexico State University	6	3.37	0.86	1.30	1.21	0.95	0.49	0.72	4.67	4.02
55H05	Pioneer Hi-Bred Int'l	5	3.22	0.95	1.22	1.30	0.94	0.46	0.66	4.57	3.89
56S82	Pioneer Hi-Bred Int'l	6	2.89	0.82	1.28	1.43	0.85	0.49	0.76	4.82	3.86
Cimarron VL400	Cimarron USA	4	3.07	1.07	1.34	1.23	0.91	0.53	0.57	4.56	3.82
Tango	Curtis Seed	6	2.89	1.02	1.49	1.34	0.83	0.43	0.66	4.75	3.82
FSG505	Allied Seed, L.L.C.	5	2.89	0.92	1.27	1.33	0.75	0.54	0.71	4.59	3.74
DS 204HYB	Dairyland Seed Co.	4	2.50	0.80	1.35	1.54	0.91	0.56	0.59	4.95	3.72
NC+605	NC+ Hybrids	6	2.63	0.72	1.32	1.29	0.85	0.49	0.63	4.59	3.61
NM Common	Roswell Seed Co.	NA	2.85	0.73	1.18	1.20	0.85	0.45	0.64	4.32	3.58
Rebound 5.0	Croplan Genetics	4	2.43	0.71	1.39	1.39	0.84	0.47	0.59	4.68	3.55
Select	Curtis Seed	4	3.05	1.02	1.30	1.09	0.68	0.41	0.58	4.06	3.55
Dona Ana	New Mexico State University	7	2.69	0.74	1.12	1.30	0.91	0.45	0.58	4.36	3.52
msSunstra-507	Dairyland Seed Co.	4	2.44	1.08	1.42	1.32	0.88	0.42	0.56	4.59	3.52
Mountaineer 2.0	Croplan Genetics	5	2.84	0.90	1.25	1.14	0.79	0.38	0.60	4.16	3.50
African Common	Roswell Seed Co.	NA	2.62	0.65	1.09	1.26	0.79	0.45	0.64	4.24	3.43
WL357HQ	W-L Research	5	2.60	0.76	1.25	1.19	0.81	0.38	0.58	4.21	3.40
CW704	Producers' Choice/PGI Alfalfa	7	2.67	0.86	1.26	1.08	0.64	0.45	0.64	4.06	3.37
WL335HQ	W-L Research	4	2.55	0.82	1.33	1.13	0.77	0.38	0.56	4.17	3.36
Phoenix	Allied Seed, L.L.C.	5	2.50	0.83	1.27	1.22	0.75	0.42	0.53	4.19	3.35
RSC751, Lot N342-5A	Roth Seed Co.	7	2.66	0.99	1.19	1.13	0.71	0.37	0.60	4.01	3.33
HybriForce-600	Dairyland Seed Co.	6	2.43	0.71	1.24	1.20	0.82	0.39	0.51	4.16	3.29
DKA50-18	Monsanto	5	2.42	0.72	1.33	1.14	0.84	0.35	0.48	4.13	3.28
DKA41-18RR	Monsanto	4	2.40	0.59	1.09	1.21	0.73	0.40	0.55	3.98	3.19
Escalade	Allied Seed, L.L.C.	5	2.42	0.72	1.10	1.13	0.65	0.40	0.60	3.89	3.16
Ruccus	Target Seed	5	2.46	0.77	1.11	1.08	0.66	0.44	0.55	3.85	3.15
6530	Garst Seed Co.	5	2.32	0.69	1.24	1.13	0.70	0.38	0.40	3.86	3.09
Cutmor	Curtis Seed	8	2.39	0.66	1.06	1.09	0.59	0.42	0.61	3.77	3.08
RSC751-II	Roth Seed Co.	7	2.52	0.97	1.03	1.05	0.60	0.38	0.55	3.61	3.07
6420	Garst Seed Co.	4	2.24	0.76	1.10	1.02	0.74	0.43	0.47	3.77	3.00
Reward II	Producers' Choice/PGI Alfalfa	4	2.36	0.85	1.19	0.92	0.71	0.34	0.42	3.57	2.97
BPR387	Dairyland Seed Co.	4	2.10	0.59	1.17	1.18	0.64	0.35	0.42	3.76	2.93
Renograzer	Curtis Seed	3	2.01	0.82	1.24	1.04	0.74	0.36	0.31	3.68	2.85
Mean			2.63	0.82	1.24	1.20	0.78	0.43	0.58	4.23	3.43
LSD (0.05)			0.62	0.22	NS	NS	NS	NS	0.17	0.93	0.72
CV%			16.84	19.15	15.87	16.90	22.45	22.29	20.65	15.73	15.04

†Analyzed using analysis of variance.

Additional Information

Date of establishment: 9/22/05
 Irrigation method: Furrow-irrigated once in mid-April and immediately after each harvest except the final harvest.
 Number of reps: 4
 Harvest dates: 2006: 6/13, 7/11, 8/10, 9/13, 10/30
 2007: See harvest dates in table header.

Comment: Yield data for the 10/30/2006 harvest was inadvertently left out of the 2006 yield total in the 2006 summary. This has been corrected and the 10/30/2006 data is included in the 2007 summary.

Fertilizer: 200 lbs/acre of 11-52-00 were applied 3/2/2007

Herbicide: Volunteer (Clethodim) was applied on 8/31/2007 at 1/2 pint/acre along with 2 quarts/acre Butyrac 200 (2,4-DB) and 1 quart/acre crop oil concentrate.

Insecticide: No insecticides applied in 2007.