

**OKLAHOMA**

Stillwater, Payne County Agronomy Research Station Irrigated, Sown September 2000

**FORAGE GENETICS**

Entry	2002						2001	2-Yr.	
	5/15	6/24	7/19	8/30	10/11	Total	Total	Total	NN*
Tons Dry Matter/Acre									
40M162	1.90	2.61	1.88	2.24	1.52	10.15	12.10	22.24	22.30
40M159A	2.00	2.51	1.79	2.23	1.42	9.95	12.05	22.00	22.09
40M156	2.24	2.64	1.84	2.17	1.39	10.29	12.15	22.44	22.07
40M152	1.75	2.46	1.90	2.29	1.47	9.86	11.62	21.48	22.01
50M172	1.79	2.38	1.87	2.18	1.35	9.56	11.88	21.44	21.66
40M157	1.99	2.65	1.81	2.27	1.45	10.16	11.68	21.84	21.60
50M167	1.70	2.66	1.97	2.27	1.40	9.99	11.94	21.94	21.54
50M171	1.62	2.30	1.78	2.23	1.41	9.34	11.46	20.80	21.45
40M155	1.89	2.58	1.82	2.06	1.32	9.66	11.72	21.37	21.42
40M148	1.73	2.34	1.81	2.08	1.42	9.38	10.93	20.31	21.38
50M170	1.57	2.35	1.86	2.22	1.34	9.34	11.39	20.73	21.36
40M160	1.85	2.55	1.79	2.28	1.49	9.95	11.24	21.18	21.15
40M165	1.77	2.40	1.85	2.23	1.36	9.62	11.55	21.17	21.12
40M161	1.58	2.36	1.86	2.18	1.38	9.36	11.71	21.07	21.11
50M169	1.54	2.19	1.81	2.19	1.36	9.08	11.61	20.69	20.73
40M150	1.69	2.41	1.87	2.17	1.43	9.57	11.69	21.26	20.71
4A83	1.81	2.41	1.73	2.15	1.38	9.49	11.32	20.80	20.61
50M173	1.60	2.24	1.81	2.24	1.41	9.29	11.81	21.09	20.59
40M151	1.82	2.39	1.65	2.03	1.36	9.25	11.43	20.68	20.58
40M158	1.95	2.49	1.71	2.06	1.25	9.46	11.41	20.87	20.48
50M166	1.64	2.33	1.79	2.12	1.26	9.14	10.77	19.91	20.45
40M154	1.78	2.29	1.74	2.05	1.28	9.13	10.99	20.12	20.37
40M163	1.77	2.35	1.81	2.21	1.36	9.50	11.16	20.66	20.20
40M149	1.80	2.40	1.71	2.06	1.36	9.32	10.99	20.31	20.02
Abilene + Z	1.67	2.24	1.55	2.00	1.27	8.73	11.07	19.80	19.75
WL 325 HQ	1.67	2.33	1.72	1.97	1.32	9.01	10.63	19.63	19.43
Cimarron VR	1.84	2.20	1.45	1.82	1.14	8.45	9.50	17.95	17.59
Mean	1.78	2.41	1.78	2.15	1.36	9.48	11.40	20.88	
5% LSD	0.15	0.16	0.14	0.14	0.11	0.47	0.58	0.90	
CV (%)	7.4	5.9	7.0	5.8	7.0	4.3	4.5	3.8	

\* NN = total yield from nearest neighbor analysis  
Design: Randomized Complete Block

Plot Size: 1x5m planted  
Plot Size: 1x5m harvested

Experiment: 002

**OKLAHOMA**  
 Tipton, Tillman County  
 Southwest Agronomy Research Station  
 Rain-fed, Sown September 2001

Entry (Generation)	2002				Total	NN*
	5/1	5/30	7/10	8/13		
Tons Dry Matter/Acre						
OK 169 (Syn 4)	1.98	0.77	1.19	0.69	4.62	4.53
OK 49 (Syn 3)	1.88	0.77	1.18	0.66	4.49	4.45
OK 201 (Syn 4)	1.80	0.72	1.11	0.59	4.22	4.37
OK 200 (Syn 4)	1.78	0.66	1.13	0.56	4.12	4.33
631	1.91	0.72	1.15	0.56	4.34	4.29
HayGrazer	1.86	0.52	1.00	0.38	3.76	4.19
Key	1.84	0.71	1.16	0.56	4.27	4.18
WL 327	1.82	0.67	1.15	0.46	4.10	4.15
AmeriGraze 401+Z	1.90	0.58	1.13	0.46	4.06	4.12
Pawnee	1.84	0.67	1.18	0.59	4.28	4.11
Dagger+EV	1.82	0.71	1.19	0.66	4.39	4.08
OK 199 (Syn 3)	1.66	0.75	1.17	0.68	4.26	4.04
OK 49 (C)	1.55	0.64	1.17	0.56	3.91	3.98
Cimarron 3i	1.81	0.61	1.05	0.50	3.97	3.97
Mean	1.82	0.68	1.14	0.57	4.20	
5% LSD	0.29ns	0.13	0.10	0.21ns	0.53ns	
CV (%)	14.0	17.2	7.7	32.1	11.0	
MCV (%)	16.1	19.8	8.9	37.0	12.6	
LSR (%)	68.2	54.0	51.8	68.9	61.3	

Generation = (C) = from commercial bags  
 ns = F value is not significant at p = 0.05  
 Design: Randomized Complete Block  
 No. of Reps: 6  
 Experiment: 161

MCV = LSD/Mean x 100  
 LSR = LSD/Range x 100  
 Plot Size: 1x5m planted  
 Plot Size: 1x5m harvested

\*NN Total = Means adjusted by nearest neighbor analysis

1.98	0.77	1.19	0.69	4.62
1.55	0.52	1.00	0.38	3.76
0.43	0.25	0.20	0.31	0.87
68.23529	53.96825	51.79487	68.85246	61.27168

**OKLAHOMA**  
 Perkins, Payne County  
 Agronomy Research Station  
 Rainfed, Sown September 2001

Entry (Generation)	2002			Total	NN*
	5/21	6/26	10/1		
Tons Dry Matter/Acre					
OK 199 (Syn 3)	1.87	1.83	1.34	5.04	5.10
OK 169 (Syn 4)	1.87	1.77	1.37	5.00	5.07
631	1.88	1.84	1.33	5.05	5.06
WL 342	1.88	1.87	1.28	5.03	5.00
OK 49 ( C)	1.84	1.75	1.32	4.91	4.97
Key	1.92	1.75	1.28	4.95	4.93
Pawnee	1.81	1.81	1.24	4.86	4.88
OK 49 (Syn 3)	1.79	1.73	1.31	4.82	4.82
OK 201 (Syn 4)	1.74	1.77	1.34	4.85	4.79
OK 200 (Syn 4)	1.73	1.67	1.27	4.66	4.77
Ameristand 403T	1.91	1.78	1.21	4.91	4.77
Dagger+EV	1.82	1.74	1.24	4.80	4.74
Mean	1.84	1.78	1.29	4.91	
5% LSD	0.12	0.15ns	0.12ns	0.28ns	
CV (%)	5.6	7.2	8.0	4.9	
MCV (%)	6.5	8.3	9.3	5.7	
LSR (%)	61.7	72.2	77.9	72.4	

Generation = (C) = from commercial bags

ns = F value is not significant at p = 0.05

Design: Randomized Complete Block

No. of Reps: 6

Experiment: 121

\* NN = total yield from nearest neighbor analysis

MCV = LSD/Mean x 100

LSR = LSD/Range x 100

Plot Size: 1x5m planted

Plot Size: 1x5m harvested

**OKLAHOMA**  
 Chickasha, Grady County  
 Central Oklahoma Research Station  
 Irrigated, Sown September 2001

Entry (Generation)	2002					Total	NN*
	5/20	6/20	7/23	8/19	9/18		
Tons Dry Matter/Acre							
HybriForce-400	2.16	1.80	1.20	1.29	1.44	7.88	7.60
OK 200 (Syn 4)	1.74	1.74	1.22	1.19	1.42	7.30	7.33
OK 199 (Syn 3)	1.80	1.64	1.05	1.09	1.39	6.97	7.13
OK 169 (Syn 4)	1.71	1.68	1.03	1.13	1.44	6.98	7.11
Good As Gold II	1.92	1.65	1.04	1.21	1.41	7.22	7.07
OK 49 (Syn 3)	1.78	1.62	1.12	1.14	1.41	7.05	7.00
631	1.81	1.69	0.98	1.03	1.38	6.89	6.92
Cimarron 3i	1.85	1.71	1.01	0.93	1.37	6.86	6.78
OK 201 (Syn 4)	1.52	1.61	1.16	1.17	1.35	6.81	6.77
Reward II	1.77	1.78	1.03	0.97	1.40	6.94	6.77
OK 49	1.61	1.57	0.89	1.10	1.42	6.60	6.77
54Q53	1.79	1.57	1.06	1.05	1.39	6.85	6.67
Pawnee	1.57	1.64	1.00	1.13	1.32	6.66	6.64
Dagger+EV	1.63	1.62	0.79	0.89	1.35	6.27	6.54
WL 342	1.58	1.64	0.96	0.88	1.34	6.40	6.52
Key	1.61	1.63	0.89	0.94	1.34	6.40	6.46
Mean	1.74	1.66	1.03	1.07	1.39	6.88	
5% LSD	0.16	0.13	0.17	0.19	0.08ns	0.49	
CV (%)	8.1	6.6	14.4	15.2	5.3	6.2	
MCV (%)	9.3	7.7	16.6	17.5	6.1	7.1	
LSR (%)	25.4	54.7	39.1	45.4	73.3	30.3	

Generation = (C) = from commercial bags  
 ns = F value is not significant at p = 0.05

MCV = LSD/Mean x 100

Design: Randomized Complete Block

No. of Reps: 6

Experiment: 131

\*NN Total = Means adjusted by nearest neighbor analysis

LSR = LSD/Range x 100

Plot Size: 1x5m planted

Plot Size: 1x5m harvested

**OKLAHOMA**  
 Stillwater, Payne County  
 Agronomy Research Station  
 Irrigated, Sown September 2001  
**FORAGE GENETICS**

Entry	2002						Total	NN*
	5/14	6/25	7/25	9/5	10/17			
	Dry Tons/Acre							
41M130	2.77	2.49	1.69	1.94	1.29	10.18	10.25	
51M143	2.65	2.44	1.77	1.90	1.27	10.03	10.08	
4S125	2.72	2.58	1.62	1.85	1.26	10.03	10.04	
4M76	2.50	2.40	1.65	1.89	1.22	9.65	10.04	
41M123	2.66	2.56	1.77	1.95	1.35	10.28	10.02	
4M74	2.50	2.30	1.70	1.82	1.27	9.60	10.01	
41M131	2.54	2.36	1.71	1.87	1.24	9.72	9.97	
4S42	2.74	2.43	1.63	1.86	1.29	9.95	9.90	
Magnum V	2.67	2.54	1.71	1.86	1.28	10.05	9.81	
51M138	2.44	2.41	1.75	1.96	1.34	9.90	9.81	
41M121	2.43	2.34	1.72	1.87	1.22	9.59	9.80	
51M142	2.38	2.53	1.69	1.85	1.33	9.79	9.78	
51M135	2.46	2.38	1.65	1.94	1.31	9.74	9.77	
41M127	2.59	2.42	1.59	1.88	1.24	9.71	9.74	
51M133	2.46	2.37	1.66	1.90	1.31	9.70	9.72	
41M128	2.56	2.46	1.65	1.85	1.25	9.77	9.71	
4S130	2.43	2.36	1.57	1.80	1.23	9.38	9.68	
OK 49	2.64	2.46	1.56	1.83	1.22	9.72	9.67	
4S40	2.73	2.38	1.63	1.86	1.25	9.85	9.66	
41M124	2.49	2.44	1.66	1.87	1.19	9.64	9.64	
40M154	2.60	2.32	1.66	1.82	1.26	9.67	9.60	
6M92	2.27	2.34	1.73	1.92	1.28	9.53	9.58	
40M159A	2.49	2.30	1.66	1.89	1.30	9.63	9.57	
51M139	2.27	2.41	1.62	1.87	1.26	9.42	9.46	
51M140	2.30	2.28	1.60	1.80	1.19	9.16	9.45	
OK 01	2.52	2.32	1.56	1.84	1.23	9.47	9.39	
51T144	2.34	2.24	1.64	1.76	1.27	9.24	9.39	
FG 5M 87	2.44	2.44	1.71	1.91	1.26	9.75	9.37	
WI 342	2.57	2.37	1.56	1.80	1.13	9.42	9.36	
3S11	2.56	2.34	1.49	1.81	1.20	9.39	9.36	
41M122	2.76	2.30	1.56	1.79	1.17	9.58	9.36	
GH 750	2.58	2.32	1.60	1.74	1.18	9.41	9.19	
Abilene	2.36	2.37	1.57	1.82	1.25	9.36	9.08	
Mean	2.53	2.39	1.65	1.86	1.25	9.67		
5% LSD	0.22	0.25	0.14	0.15	0.13	0.61		
CV (%)	6.2	7.4	6.1	5.9	7.4	4.5		

\* NN = total yield from nearest neighbor analysis  
 Design: Randomized Complete Block  
 No. of Reps: 4  
 Experiment: 102

Plot Size: 1x5m planted  
 Plot Size: 1x5m harvested

**OKLAHOMA**  
 Stillwater, Payne County  
 Agronomy Research Station  
 Irrigated, Sown September 2001

Entry (Generation)	2002						Total	NN*
	5/14	6/24	7/24	9/3	10/18	TonsDryMatter/Acre		
HybriForce-400	3.03	2.35	1.70	1.94	1.13	10.13	9.86	
OK 49 (Syn 3)	2.71	2.28	1.71	2.04	1.15	9.88	9.96	
Reward II	2.77	2.27	1.60	1.98	1.13	9.76	9.61	
54Q53	2.63	2.34	1.64	1.96	1.13	9.69	9.39	
Good As Gold II	2.57	2.35	1.59	2.00	1.17	9.68	9.74	
OK 49 ( C)	2.75	2.17	1.56	1.98	1.15	9.61	9.79	
OK 200 (Syn 4)	2.59	2.22	1.64	2.00	1.14	9.58	9.78	
OK 169 (Syn 4)	2.47	2.34	1.62	1.99	1.15	9.57	9.74	
Ameristand 403T	2.58	2.33	1.59	1.95	1.06	9.50	9.54	
OK 199 (Syn 3)	2.56	2.25	1.59	1.97	1.14	9.50	9.79	
Cimarron 3i	2.72	2.26	1.52	1.94	1.06	9.48	9.57	
631	2.52	2.26	1.57	1.95	1.15	9.45	9.44	
WL 342	2.51	2.33	1.51	2.00	1.09	9.44	9.53	
AmeriGraze 401+Z	2.50	2.33	1.48	1.94	1.06	9.32	9.24	
Cimarron	2.49	2.24	1.59	1.89	1.09	9.31	9.06	
OK 201 (Syn 4)	2.20	2.10	1.67	1.96	1.10	9.03	8.96	
Pawnee	2.28	2.11	1.53	1.99	1.11	9.02	9.06	
Dagger+EV	2.05	2.16	1.47	1.85	1.04	8.57	8.44	
Mean	2.55	2.26	1.59	1.96	1.11	9.47		
5% LSD	0.23	0.18ns	0.16ns	0.14ns	0.08	0.55		
CV (%)	8.0	6.8	9.1	6.2	6.1	5.1		
MCV (%)	9.1	8.0	10.1	7.1	7.0	5.8		
LSR (%)	23.7	70.7	68.8	73.2	60.0	35.3		

Generation = C = from commercial bags

Design: Randomized Complete Block

No. of Reps: 6

Experiment: 101

\*NN Total = Means adjusted by nearest neighbor analysis

ns = F value is not significant at p = 0.05

MCV = LSD/Meanx100

LSR = LSD/Rangex100

Plot Size: 1 x 5m planted

Plot Size: 1 x 5m harvested

**OKLAHOMA**  
Chickasha, Grady County  
Central Oklahoma Research Station  
Irrigated, Sown September 2000

Entry (Generation)	2002						2001 Total	2-Yr.	
	5/20	6/20	7/23	8/19	9/18	Total		Total	NN*
Tons Dry Matter/Acre									
<b>Released Cultivars</b>									
Buffalo	1.91	1.96	1.68	1.62	1.59	8.76	6.30	15.06	15.24
OK 201 (Syn 4)	1.88	1.92	1.62	1.56	1.61	8.59	6.24	14.82	15.02
OK 200 (Syn 4)	1.84	1.91	1.52	1.44	1.52	8.22	6.38	14.60	14.59
OK 199 (Syn 3)	1.84	1.92	1.47	1.46	1.54	8.22	6.39	14.61	14.58
OK 49 ( C )	1.76	1.90	1.37	1.41	1.53	7.97	6.38	14.35	14.49
Garst 6420	1.95	1.96	1.46	1.44	1.50	8.31	6.41	14.71	14.35
OK 169 (Syn 4)	1.96	1.95	1.53	1.46	1.48	8.37	5.90	14.26	14.25
Magnum IV	2.00	1.99	1.36	1.31	1.45	8.11	6.24	14.35	14.15
Garst 631	1.90	1.96	1.36	1.29	1.47	7.98	6.52	14.50	14.05
54V54	1.81	1.83	1.31	1.35	1.48	7.78	6.27	14.04	13.82
54H55	1.86	1.97	1.42	1.38	1.44	8.06	6.02	14.08	13.67
Dagger +EV	1.83	1.84	1.18	1.23	1.49	7.57	6.06	13.63	13.54
<b>Experimental Strains</b>									
OK 213 (Syn 3)	1.91	1.98	1.54	1.51	1.54	8.48	6.13	14.60	14.96
OK 215 (Syn 2)	1.86	1.89	1.51	1.44	1.53	8.22	6.05	14.27	14.58
OK 187 (Syn 2)	2.01	1.93	1.55	1.41	1.47	8.37	6.26	14.63	14.51
OK 161 (Syn 4)	1.87	1.85	1.47	1.30	1.55	8.05	5.97	14.02	14.36
OK 216 (Syn 2)	1.87	1.90	1.34	1.36	1.56	8.03	5.88	13.91	14.00
OK 189 (Syn 3)	1.94	1.89	1.43	1.36	1.46	8.07	5.86	13.93	13.73
OK 163 (Syn 2)	1.89	1.81	1.27	1.23	1.41	7.61	5.53	13.14	13.42
OK 212 (Syn 2)	1.51	1.65	1.10	1.25	1.38	6.89	5.44	12.33	12.55
Mean	1.87	1.90	1.42	1.39	1.50	8.08	6.11	14.19	
5% LSD	0.18	0.14	0.16	0.19	0.10	0.51	0.44	0.77	
CV (%)	8.3	6.5	9.6	12.2	5.6	5.5	6.2	4.7	
MCV (%)	9.5	7.5	11.0	14.0	6.4	6.3	7.2	5.4	



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LSR (%)	35.8	41.8	27.1	49.2	41.7	27.2	40.4	28.1
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Generation = (C) = from commercial bags

Design: Randomized Complete Block

No. of Reps: 6

Experiment: 031

\*NN Total = Means adjusted by nearest neighbor analysis

MCV =  $LSD/Mean \times 100$

LSR =  $LSD/Range \times 100$

Plot Size: 1x5m planted

Plot Size: 1x5m harvested

**OKLAHOMA**  
 Stillwater, Payne County  
 Agronomy Research Station  
 Irrigated, Sown September 2000

Entry (Generation)	2002						2001	2-Yr.	
	5/16	6/21	7/23	8/30	10/15	Total	Total	Total	NN*
Tons Dry Matter/Acre									
<b>Released Cultivars</b>									
Y54V03	1.75	2.45	2.00	1.96	1.52	9.69	8.83	18.52	19.02
54V54	1.82	2.46	1.90	1.77	1.30	9.26	8.69	17.95	18.30
OK 200 (Syn 4)	1.79	2.41	2.05	1.88	1.40	9.51	8.16	17.67	18.11
OK 199 (Syn 3)	1.79	2.37	1.91	1.86	1.39	9.32	8.54	17.86	17.83
6420	1.90	2.41	1.88	1.80	1.30	9.28	8.60	17.89	17.80
54H55	1.62	2.36	1.82	1.71	1.42	8.94	7.98	16.92	17.50
OK 169 (Syn 4)	1.77	2.40	1.88	1.82	1.35	9.22	7.74	16.96	17.39
631	1.78	2.30	1.80	1.66	1.30	8.84	7.97	16.81	17.35
Dagger +EV	1.65	2.29	1.80	1.81	1.28	8.82	8.53	17.35	17.17
Magnum IV	1.85	2.37	1.81	1.70	1.23	8.97	8.03	16.99	16.64
OK 201 (Syn 4)	1.72	2.35	1.93	1.87	1.37	9.25	7.47	16.71	16.46
OK 49 ( C)	1.68	2.30	1.94	1.86	1.35	9.12	7.53	16.65	16.24
HG 2000	1.99	2.38	1.76	1.66	1.18	8.97	7.36	16.32	16.07
Buffalo	1.53	2.01	1.89	1.77	1.28	8.47	6.28	14.75	14.55
<b>Experimental Strains</b>									
OK 163 (Syn 2)	1.69	2.44	1.99	1.83	1.35	9.29	8.66	17.95	18.02
OK 189 (Syn 3)	1.82	2.43	2.09	1.99	1.36	9.69	8.54	18.23	18.00
OK 161 (Syn 4)	1.84	2.29	1.76	1.66	1.20	8.76	8.34	17.09	17.49
ZC 9853A	1.39	2.13	1.95	1.92	1.48	8.87	8.76	17.63	17.39
ZC 9940A	1.76	2.31	1.75	1.84	1.33	8.98	8.35	17.33	17.28
ZC 9941A	1.78	2.28	1.81	1.80	1.32	8.99	8.44	17.43	17.22
96N07PP1	1.78	2.36	1.79	1.78	1.28	8.98	8.69	17.67	17.16
ZC 9950A	1.70	2.17	1.91	1.77	1.35	8.90	8.26	17.16	16.86
OK 213 (Syn 3)	1.73	2.24	1.82	1.77	1.26	8.82	6.93	15.75	15.67

96N05PL1	1.74	2.15	1.72	1.56	1.15	8.32	6.89	15.21	15.31
Mean	1.75	2.32	1.87	1.79	1.32	9.05	8.07	17.12	
5% LSD	0.12	0.16	0.12	0.13	0.12	0.45	0.61	0.89	
CV (%)	5.8	6.2	5.8	6.2	8.1	4.3	6.6	4.6	
MCV (%)	6.6	7.1	6.6	7.1	9.3	4.9	7.5	5.2	
LSR (%)	19.3	36.0	33.5	29.6	32.7	32.6	23.8	23.7	

Generation = (C) = from commercial bags  
 Design: Randomized Complete Block  
 No. of Reps: 6  
 Experiment: 001

$MCV = LSD/Mean \times 100$   
 $LSR = LSD/Range \times 100$   
 Plot Size: 1x5m planted  
 Plot Size: 1x5m harvested

\*NN Total = Means adjusted by nearest neighbor analysis