

**OKLAHOMA**  
 Goodwell, Texas County  
 Oklahoma Panhandle Research & Extension Center  
 Irrigated, Sown September 1999

Entry (Generation)	2001					2000 Total	2-Yr. Total	2-Yr. NN*
	5/16	6/22	7/24	9/25	Total			
Tons Dry Matter/Acre								
<b>Released Cultivars</b>								
Pawnee	2.32	1.85	2.65	1.90	8.72	4.99	13.70	13.42
Garst 631	2.39	1.94	2.61	1.91	8.85	4.93	13.78	13.37
NC+Jade II	2.48	1.90	2.55	1.92	8.86	4.71	13.57	13.33
Garst 630	2.19	1.76	2.54	1.95	8.43	4.55	12.98	13.32
Abilene+Z	2.35	1.85	2.67	1.97	8.83	4.92	13.75	13.25
Garst 6420	2.54	1.85	2.48	1.89	8.76	4.73	13.49	13.19
Cimarron SR	2.38	1.78	2.51	1.83	8.49	4.83	13.32	13.17
Garst 6410	2.31	1.88	2.37	1.76	8.32	4.83	13.15	13.14
OK 49	2.16	1.87	2.55	1.90	8.48	4.56	13.04	13.12
DK 142	2.19	1.71	2.25	1.76	7.91	4.63	12.54	13.07
Key	2.33	1.81	2.57	1.84	8.55	5.00	13.55	13.02
Stamina	2.24	1.73	2.27	1.78	8.02	4.65	12.67	12.92
Garst 6550	2.01	1.73	2.28	1.69	7.71	4.45	12.15	12.44
Buffalo	2.09	1.82	2.44	2.00	8.35	4.00	12.35	12.29
<b>Experimental Strains</b>								
OK 161 (syn 2)	2.19	lol	2.50	1.97	8.49	4.46	12.95	13.39
OK 207 (syn 3)	2.31	1.85	2.37	1.83	8.35	4.62	12.97	13.37
OK 206 (syn 3)	2.25	1.71	2.55	1.87	8.37	4.89	13.26	13.34
OK 169 (syn 3)	2.24	1.86	2.58	2.01	8.69	4.68	13.37	13.30
OK 200 (syn 3)	2.21	1.84	2.43	1.94	8.41	4.45	12.86	12.91
OK 201 (syn 3)	2.21	1.83	2.56	1.94	8.54	4.23	12.77	12.88
Mean	2.27	1.82	2.49	1.88	8.46	4.66	13.11	
5% LSD	0.20	0.20ns	0.31ns	0.15	0.60	0.46	0.92	
CV (%)	8	9	11	7	6	9	6	
MCV (%)	9	11	13	8	7	10	7	
LSR (%)	39	84	75	48	52	46	57	

\*NN Total = Means adjusted by nearest neighbor analysis  
 ns = F value is not significant at p = 0.05  
 Design: Randomized Complete Block  
 No. of Reps: 6  
 Experiment: 991

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

# OKLAHOMA

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

Entry (Generation)	2001					Total	NN*
	4/30	6/4	7/2	8/3	9/12		
Tons Dry Matter/Acre							
<b>Released Cultivars</b>							
OK 49	1.39	1.64	0.48	1.55	1.32	6.38	6.48
Garst 631	1.50	1.66	0.41	1.59	1.36	6.52	6.35
Buffalo	1.33	1.56	0.53	1.50	1.39	6.30	6.32
Garst 6420	1.34	1.64	0.47	1.54	1.42	6.41	6.27
Magnum IV	1.44	1.61	0.42	1.47	1.31	6.24	6.18
Dagger +EV	1.38	1.60	0.43	1.34	1.32	6.06	6.14
54V54	1.43	1.60	0.37	1.56	1.31	6.27	6.09
54H55	1.33	1.59	0.45	1.32	1.33	6.02	5.87
<b>Experimental Strains</b>							
OK 213 Syn 3	1.33	1.56	0.53	1.37	1.35	6.13	6.37
OK 199 Syn 3	1.37	1.68	0.51	1.51	1.33	6.39	6.33
OK 201 Syn 4	1.29	1.60	0.56	1.35	1.45	6.24	6.30
OK 187 Syn 2	1.28	1.58	0.49	1.49	1.42	6.26	6.26
OK 200 Syn 4	1.35	1.58	0.56	1.60	1.30	6.38	6.22
OK 161 Syn 4	1.31	1.59	0.43	1.35	1.29	5.97	6.16
OK 215 Syn 2	1.37	1.59	0.45	1.39	1.26	6.05	6.10
OK 169 Syn 4	1.33	1.56	0.48	1.26	1.28	5.90	5.94
OK 216 Syn 2	1.21	1.58	0.49	1.32	1.29	5.88	5.93
OK 189 Syn 3	1.30	1.48	0.46	1.32	1.31	5.86	5.78
OK 163 Syn 2	1.21	1.53	0.44	1.11	1.23	5.53	5.64
OK 212 Syn 2	1.11	1.39	0.48	1.29	1.17	5.44	5.51
Mean	1.33	1.58	0.47	1.41	1.32	6.11	
5% LSD	0.16	0.09	0.10	0.32ns	0.15ns	0.44	
CV (%)	10	5	18	20	10	6	
MCV (%)	12	6	21	23	11	7	
LSR (%)	40	31	54	65	54	40	

\*NN Total = Means adjusted by nearest neighbor analysis  
 ns = F value is not significant at p = 0.05  
 Design: Randomized Complete Block  
 No. of Reps: 6  
 Experiment: 031

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

# OKLAHOMA

Perkins, Agronomy Research Station, Payne County  
Rainfed, Sown September 2000

Entry (Generation)	2001			NN*
	5/3	6/17	Total	
Tons Dry Matter/Acre				
<b>Released Cultivars</b>				
Garst 6420	0.84	1.54	2.38	2.41
Magnum IV	0.83	1.45	2.28	2.31
OK 49	0.85	1.40	2.24	2.27
Garst 631	0.75	1.48	2.22	2.17
Dagger +EV	0.78	1.42	2.19	2.16
Buffalo	0.67	1.20	1.87	1.93
<b>Experimental Strains</b>				
OK 169 Syn 4	0.97	1.46	2.43	2.41
OK 161 Syn 4	0.77	1.43	2.20	2.28
OK 200 Syn 4	0.81	1.45	2.26	2.27
OK 163 Syn 2	0.78	1.42	2.19	2.19
OK 213 Syn 3	0.84	1.42	2.26	2.19
OK 189 Syn 3	0.82	1.37	2.19	2.17
OK 216 Syn 2	0.85	1.40	2.25	2.17
OK 199 Syn 3	0.76	1.40	2.16	2.16
OK 215 Syn 2	0.80	1.37	2.16	2.14
OK 187 Syn 2	0.84	1.36	2.19	2.12
OK 201 Syn 4	0.75	1.30	2.05	2.08
OK 212 Syn 2	0.59	1.19	1.77	1.87
Mean	0.79	1.39	2.18	
5% LSD	0.17ns	0.12	0.24	
CV (%)	19	8	9	
MCV (%)	21	9	11	
LSR (%)	45	34	36	

\*NN Total = Means adjusted by nearest neighbor analysis

ns = F value is not significant at p = 0.05

MCV = LSD/Mean x 100

Design: Randomized Complete Block

LSR = LSD/Range x 100

No. of Reps: 6

Plot Size: 1x5m planted

Experiment: 021

Plot Size: 1x5m harvested

Plowed up October 2001 due to poor stand, low yield, high variability

## OKLAHOMA

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

Entry (Generation)	2001					Total	NN *
	4/27	6/5	7/6	10/11			
Tons Dry Matter/Acre							
<b>Released Cultivars</b>							
Y54V03	1.39	2.41	3.17	1.87	8.83	9.07	
54V54	1.50	2.40	3.10	1.69	8.69	8.94	
Garst 6420	1.39	2.40	3.02	1.80	8.60	8.47	
54H55	1.26	2.23	2.86	1.64	7.98	8.44	
Dagger +EV	1.33	2.36	3.06	1.79	8.53	8.36	
Garst 631	1.03	2.29	2.91	1.75	7.97	8.30	
Magnum IV	1.14	2.34	2.83	1.72	8.03	7.95	
OK 49	0.99	2.06	2.74	1.75	7.53	7.29	
HG 2000	1.04	2.13	2.52	1.67	7.36	7.24	
Buffalo	0.71	1.73	2.26	1.59	6.28	6.09	
<b>Experimental Strains</b>							
96N07PP1	1.42	2.27	3.23	1.84	8.76	8.63	
96N05PL1	1.33	2.34	3.17	1.83	8.66	8.62	
ZC 9950A	1.36	2.37	2.98	1.62	8.34	8.60	
OK 213 Syn 3	1.17	2.30	3.16	1.90	8.54	8.50	
OK 199 Syn 3	1.24	2.36	3.11	1.83	8.54	8.48	
ZC 9853A	1.44	2.44	3.15	1.66	8.69	8.47	
ZC 9940A	1.40	2.33	2.99	1.72	8.44	8.45	
OK 200 Syn 4	1.06	2.22	3.08	1.80	8.16	8.39	
ZC 9941A	1.44	2.35	2.96	1.61	8.35	8.34	
OK 169 Syn 4	0.99	2.16	2.83	1.76	7.74	8.02	
OK 161 Syn 4	1.14	2.21	3.09	1.82	8.26	7.90	
OK 201 Syn 4	0.86	2.04	2.81	1.75	7.47	7.30	
OK 189 Syn 3	0.85	1.93	2.49	1.66	6.93	6.90	
OK 163 Syn 2	0.84	2.10	2.43	1.52	6.89	6.83	
Mean	1.18	2.24	2.91	1.73	8.07		
5% LSD	0.21	0.17	0.25	0.11	0.61		
CV (%)	16	7	8	6	7		
MCV (%)	18	8	9	7	8		
LSR (%)	27	24	26	30	24		

\*NN Total = Means adjusted by nearest neighbor analysis

Design: Randomized Complete Block

No. of Reps: 6

Experiment: 001

MCV = LSD/Mean x 100

LSR = LSD/Range x 100

Plot Size: 1x5m planted

Plot Size: 1x5m harvested