

Silage Test Results

Summary of Evaluations of Corn Hybrids for Silage Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2005

Company or Brand Name	Hybrid Name	Quality Factors ¹			Dry Matter Yield				
		Milk Production ²		Quality Portion	Statewide Average	Blairsville	Calhoun	Griffin	Tifton
		lbs/ton DM	lbs/acre							----- tons/acre -----
<u>Short -Season</u>									
AgraTech	717RR	2571	24685	48	8.8	9.3	8.8	7.5	9.6
AgraTech	9814	2530	28339	43	.	.	.	.	11.2
DeKalb	DKC61-72(RR2)	3013	28923	54	.	.	.	8.6	9.6
DeKalb	DKC63-62(RR2)	2571	25709	48	.	.	.	8.8	10.0
Hyttest	7799Bt	2594	23861	55	9.4	10.9	8.5	9.1	9.2
Mycogen	2D835	2460	25340	48	.	.	.	.	10.3
Mycogen	2J787	2420	23234	51	9.7	9.6	10.5	9.0	9.6
Mycogen	2T780	2657	24445	54	9.4	10.4	9.5	8.4	9.1
NK	1851W	2428	25983	44	9.8	10.0	10.8	7.7	10.7
Pioneer	33D63	2740	28765	48	9.5	9.2	8.5	9.5	10.5
Pioneer	33V15	2494	25683	49	10.1	12.1	9.0	9.0	10.3
SS	692BT	2829	26309	49	9.1	8.9	8.8	9.4	9.3
Terral	TV2140nRR	2465	29337	47	11.0	10.6	12.2	9.4	11.9
<i>Average</i>		2598 ³	26201 ⁵	49	9.6	10.1	9.6	8.8	10.1
<i>LSD at 10% Level</i>		N.S. ⁴	N.S.	4	0.6	1.0	1.6	1.1	1.5
<i>Std. Err. of Entry Mean</i>		204	2167	2	0.3	0.4	0.7	0.5	0.6

Summary of Evaluations of Corn Hybrids for Silage Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2005 (Continued)

Company or Brand Name	Hybrid Name	Quality Factors ¹			Dry Matter Yield					
		Milk Production ²		Quality Portion	Statewide Average	Blairsville	Calhoun	Griffin	Tifton	
		lbs/ton DM	lbs/acre							----- tons/acre -----
<u>Mid-Season</u>										
AgraTech	1021RR	2535	29410	39	.	.	.	.	11.6
AgraTech	855RR	2715	28238	45	.	.	.	.	10.4
AgraTech	919RR	2514	24640	48	.	.	.	.	9.7
AgraTech	9505	2069	22340	28	.	.	.	.	10.8
AgraTech	999Bt	2852	31937	45	10.6	10.2	11.0	10.1	11.1	
AgraTech	999aRR	2844	32993	44	.	.	.	.	11.6
Croplan Genetics	822RR2/BT	2689	27157	48	10.1	10.3	9.8	10.2	10.1	
DeKalb	DKC66-21(YGCB)	2372	23717	54	.	.	.	8.4	10.0	
DeKalb	DKC67-60(RR2)	2808	28918	43	.	.	.	9.4	10.3	
DeKalb	DKC69-71(RR2/YGCB)	2437	27538	45	.	.	.	10.7	11.2	
DeKalb	DKC69-72(RR2)	2030	21310	46	.	.	.	10.8	10.5	
DynaGro	58K22	2689	29574	50	.	.	.	.	10.9
DynaGro	58K40	2647	29119	45	.	.	.	.	11.0
Golden Acres	2295RR	2582	24532	45	9.2	8.2	9.4	9.6	9.5	
Greenwood	775	2670	28835	49	.	.	.	.	10.8
Greenwood	780	2739	27117	48	11.1	11.3	11.5	11.6	9.9	
Hytest	7891RR2/BT	2669	30158	54	.	.	.	.	11.3
Hytest	7924RR2/BT	2525	24999	48	9.9	10.7	9.6	9.4	9.9	
Monsanto	NC6702	2701	27008	47	.	.	.	10.8	10.0	
Monsanto	NC6704NRR1	2791	28463	51	.	.	.	10.7	10.2	
Monsanto	NC6901	2836	35731	46	.	.	.	11.1	12.6	
NK	N91-R9	2335	23813	47	10.9	13.1	10.7	9.6	10.2	
NK	NX8363	2554	26053	49	.	.	.	.	10.2
NK	NX8513	2414	28240	47	.	.	.	.	11.7
Pioneer	31R87(RR2)	2690	28247	49	11.1	11.6	11.1	11.2	10.5	
Pioneer	31Y43	3345	33786	47	10.3	10.4	10.7	9.8	10.1	
Pioneer	32D99	2734	27618	50	10.7	11.3	10.8	10.7	10.1	
SS	804	2515	27670	47	10.1	10.6	9.8	8.8	10.9	
SS	842RR2/YGCB	2693	24504	47	9.8	10.5	9.5	10.2	9.1	
Vigoro	V58YR2	2617	24334	53	8.5	8.3	8.6	7.9	9.3	
<i>Average</i>		2620 ⁶	27600 ⁷	47	10.2	10.5	10.2	10.1	10.5	
<i>LSD at 10% Level</i>		276	2921	3	0.7	1.7	1.2	1.4	1.3	
<i>Std. Err. of Entry Mean</i>		115	1219	1	0.3	0.7	0.5	0.6	0.6	

- Quality factors taken from the replicated silage trial at Tifton.
 - This variable is calculated using University of Wisconsin Corn Silage Evaluation System - Milk 2000 and reported at lbs milk/ton of dry matter (DM) and lbs milk/acre.
 - CV = 11.1%, and df for EMS = 12.
 - The F-test indicated no statistical differences at the alpha = .10 probability level; therefore an LSD value was not calculated.
 - CV = 11.7%, and df for EMS = 12.
 - CV = 6.2%, and df for EMS = 29.
 - CV = 6.2%, and df for EMS = 29.
- Bolding** indicates entries performing equally to highest performing entry within a column based on Fisher's protected LSD (P = 0.10).

Tifton, Georgia: Evaluation of Corn Hybrids for Silage, 2005, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter %	Grain Portion %	Plant Population no.	2-Yr Avg Dry Forage Yield tons/acre
		Dry tons/acre	Green tons/acre				
<u>Short-Season</u>							
Terral	TV2140nRR	11.9	26.5	45.2	47	30275	12.7
AgraTech	9814	11.2	27.5	40.9	43	29403	.
NK	1851W	10.7	28.5	37.5	44	31145	12.6
Pioneer	33D63	10.5	26.1	40.5	48	30274	.
Pioneer	33V15	10.3	24.9	41.5	49	30057	11.6
Mycogen	2D835	10.3	24.9	41.3	48	31145	.
DeKalb	DKC63-62(RR2)	10.0	23.6	42.6	48	29185	.
DeKalb	DKC61-72(RR2)	9.6	24.5	39.4	54	29403	.
Mycogen	2J787	9.6	21.1	45.6	51	30928	.
AgraTech	717RR	9.6	23.5	40.7	48	30928	10.9
SS	692BT	9.3	25.5	36.6	49	28096	.
Hyttest	7799Bt	9.2	22.0	42.2	55	29621	10.6
Mycogen	2T780	9.2	21.9	42.4	54	28750	.
<i>Average</i>		10.1 ¹	24.6 ²	41.3	49	29939	11.7
<i>LSD at 10% Level</i>		1.5	3.7	3.5	4	N.S. ³	1.3
<i>Std. Err. of Entry Mean</i>		0.6	1.5	1.5	2	901	0.5
<u>Mid-Season</u>							
Monsanto	NC6901	12.6	31.4	40.1	46	32235	.
NK	NX8513	11.7	29.6	39.5	47	28750	.
AgraTech	999aRR	11.6	30.4	38.4	44	25918	.
AgraTech	1021RR	11.6	31.3	37.1	39	26790	.
Hyttest	7891RR2/BT	11.3	28.3	39.9	54	29621	.
DeKalb	DKC69-71(RR2/YGCB)	11.3	28.0	40.1	45	30492	12.7
AgraTech	999Bt	11.2	28.9	38.6	45	28532	11.8
DynaGro	58K40	11.0	28.3	38.9	45	30057	.
SS	804	11.0	27.1	40.5	47	30275	.
DynaGro	58K22	10.9	26.9	40.7	50	30057	12.1
AgraTech	9505	10.8	32.5	33.4	28	21345	.
Greenwood	775	10.8	25.2	42.7	49	32017	.
DeKalb	DKC69-72(RR2)	10.5	26.1	40.4	46	29185	12.7
Pioneer	31R87(RR2)	10.5	26.3	40.0	49	30274	.
AgraTech	855RR	10.4	28.7	36.4	45	28096	.
DeKalb	DKC67-60(RR2)	10.3	27.1	37.9	43	30056	11.9
NK	N91-R9	10.2	26.0	39.5	47	28750	12.4
Monsanto	NC6704NRR1	10.2	27.5	37.2	51	29403	.
NK	NX8363	10.2	23.4	43.6	49	29621	11.8
Pioneer	32D99	10.1	26.8	38.0	50	29621	12.2

Tifton, Georgia:
Evaluation of Corn Hybrids for Silage, 2005, Irrigated (Continued)

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter	Grain Portion	Plant Population	2-Yr Avg Dry Forage Yield
		Dry	Green				
		tons/acre		%	%	no.	tons/acre
<u>Mid-Season</u> - continued							
Pioneer	31Y43	10.1	29.0	34.9	47	30056	.
Croplan Genetics	822RR2/BT	10.1	26.4	38.2	48	30275	.
DeKalb	DKC66-21(YGCB)	10.0	23.0	43.4	54	32017	.
Monsanto	NC6702	10.0	25.6	39.0	47	30492	.
Hytest	7924RR2/BT	9.9	25.5	38.8	48	29403	.
Greenwood	780	9.9	24.2	41.2	48	28750	12.3
AgraTech	919RR	9.8	23.9	40.9	48	27878	11.3
Golden Acres	2295RR	9.5	26.0	36.9	45	27661	.
Vigoro	V58YR2	9.3	23.0	40.8	53	26572	11.5
SS	842RR2/YGCB	9.1	23.6	38.7	47	30492	.
<i>Average</i>		10.5 ⁴	27.0 ⁵	39.2	47	29156	12.0
<i>LSD at 10% Level</i>		1.3	3.8	2.3	3	3528	N.S.
<i>Std. Err. of Entry Mean</i>		0.6	1.6	1.0	1	1500	0.5

1. CV = 12.2%, and df for EMS = 36.
2. CV = 12.5%, and df for EMS = 36.
3. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore an LSD value was not calculated.
4. CV = 10.6%, and df for EMS = 87.
5. CV = 11.9%, and df for EMS = 87.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: April 13, 2005.

Harvested: August 2, 2005.

Seeding Rate: Short-Season: 31,500 seeds/acre in 30" rows.
 Mid-Season: 32,500 seeds/acre in 30" rows.

Soil Type: Tifton loamy sand.

Soil Test: P = High, K = Medium, and pH = 5.1.

Fertilization: 95 lb N, 140 lb P₂O₅, and 210 lb K₂O/acre as preplant; 150 lb N/acre as sidedress.

Previous Crop: Soybean.

Management: Subsoiled, bedded, and rototilled; Sutan +, Prowl, and Atrazine used for weed control; Lorsban used for insect control; Telone II used for nematode control; irrigated 3.0 inches.

Test conducted by A. E. Coy, R. Bennett, R. Brooke, and R. Burton.

Griffin, Georgia: Evaluation of Corn Hybrids for Silage, 2005, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter	Grain Portion	Plant Population	2-Yr Avg Dry Forage Yield
		Dry tons/acre	Green tons/acre				
<u>Short-Season</u>							
Pioneer	33D63	9.5	30.1	31.6	45	27346	.
Terral	TV2140nRR	9.4	32.3	29.3	40	31944	9.6
SS	692BT	9.4	30.5	30.7	48	29766	.
Hyttest	7799Bt	9.1	28.3	32.1	48	30250	9.7
Pioneer	33V15	9.0	29.0	31.2	44	27104	9.6
Mycogen	2J787	9.0	27.7	32.6	47	30008	.
DeKalb	DKC63-62(RR2)	8.9	28.1	31.4	45	29524	.
DeKalb	DKC61-72(RR2)	8.7	28.8	30.0	45	27104	.
Mycogen	2T780	8.4	27.1	31.0	46	28556	.
NK	1851W	7.7	29.4	26.3	44	29766	8.7
AgraTech	717RR	7.5	23.4	32.2	43	27104	8.0
<i>Average</i>		8.8 ¹	28.6 ²	30.8	45	28952	9.1
<i>LSD at 10% Level</i>		1.1	3.1	2.1	4	N.S. ³	0.8
<i>Std. Err. of Entry Mean</i>		0.5	1.3	0.9	2	1936	0.3
<u>Mid-Season</u>							
Greenwood	780	11.6	34.1	34.0	38	27104	11.7
Pioneer	31R87(RR2)	11.2	35.4	31.5	43	30250	.
Monsanto	NC6901	11.1	32.5	34.3	42	30734	.
Monsanto	NC6702	10.8	34.3	31.5	44	31702	.
DeKalb	DKC69-72(RR2)	10.8	32.1	33.5	42	30008	.
Monsanto	NC6704NRR1	10.7	31.5	34.1	43	30734	.
Pioneer	32D99	10.7	30.4	35.1	40	31460	10.7
DeKalb	DKC69-71(RR2/YGCB)	10.7	30.8	34.6	38	31460	11.2
SS	842RR2/YGCB	10.2	33.3	30.6	40	31460	.
Croplan Genetics	822RR2/BT	10.2	35.1	29.1	40	29766	.
AgraTech	999Bt	10.1	34.6	29.1	32	31702	.
Pioneer	31Y43	9.9	32.1	30.7	36	30250	.
NK	N91-R9	9.6	32.3	29.7	38	27588	10.4
Golden Acres	2295RR	9.6	34.2	27.8	38	29040	9.3
DeKalb	DKC67-60(RR2)	9.4	31.8	29.8	41	30976	9.7
Hyttest	7924RR2/BT	9.4	29.4	31.8	41	31702	.
SS	804	8.9	29.7	29.9	44	28314	.
DeKalb	DKC66-21(YGCB)	8.4	25.8	32.8	46	28798	.
Vigoro	V58YR2	7.9	23.9	33.0	49	22506	8.4
<i>Average</i>		10.1 ⁴	31.7 ⁵	31.7	41	29766	10.2
<i>LSD at 10% Level</i>		1.4	3.0	2.4	4	3574	N.S.
<i>Std. Err. of Entry Mean</i>		0.6	1.3	1.0	2	1510	0.5

Griffin, Georgia: Evaluation of Corn Hybrids for Silage, 2005, Irrigated (Continued)

1. CV = 10.3%, and df for EMS = 30.
2. CV = 9.1%, and df for EMS = 30.
3. The F-test indicated no statistical differences at the $\alpha = .10$ probability level; therefore an LSD value was not calculated.
4. CV = 11.4%, and df for EMS = 54.
5. CV = 8.1%, and df for EMS = 54.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD ($P = 0.10$).

Planted: April 21, 2005.

Harvested: Short-Season: August 11, 2005.

Mid-Season: August 12, 2005.

Seeding Rate: 32,000 seeds/acre in 30" rows.

Soil Type: Cecil clay loam.

Soil Test: P = Medium, K = High, and pH = 6.3.

Fertilization: 49 lb N, 98 lb P_2O_5 , and 147 lb K_2O /acre as preplant; 200 lb N/acre as sidedress.

Previous Crop: Wheat.

Management: Moldboard plowed, disked, and rototilled; Atrazine and Lasso used for weed control; irrigated 1.0 inch.

Test conducted by P. A. Rose.

Calhoun, Georgia: Evaluation of Corn Hybrids for Silage, 2005, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter %	Grain Portion %	Plant Population no.	2-Yr Avg Dry Forage Yield tons/acre
		Dry tons/acre	Green tons/acre				
<u>Short-Season</u>							
Terral	TV2140nRR	12.2	34.6	35.1	45	25483	9.2
NK	1851W	10.8	33.4	32.3	43	25701	8.7
Mycogen	2J787	10.5	27.2	38.7	52	27661	.
Mycogen	2T780	9.5	28.6	33.6	46	24829	.
Pioneer	33V15	9.1	28.5	32.0	48	26790	7.3
AgraTech	717RR	8.8	24.6	35.9	44	24611	7.4
SS	692BT	8.8	28.7	30.4	51	28314	.
Hyttest	7799Bt	8.6	24.6	34.7	53	23740	8.0
Pioneer	33D63	8.5	26.5	32.3	45	24394	.
<i>Average</i>		9.6 ¹	28.5 ²	33.9	48	25725	8.1
<i>LSD at 10% Level</i>		1.6	3.9	4.2	5	N.S. ³	N.S.
<i>Std. Err. of Entry Mean</i>		0.7	1.6	1.7	2	1605	0.6
<u>Mid-Season</u>							
Greenwood	780	11.5	30.2	38.0	49	27225	9.9
Pioneer	31R87(RR2)	11.1	31.6	35.3	41	27879	.
AgraTech	999Bt	11.0	33.7	32.7	38	29185	.
Pioneer	32D99	10.8	33.5	32.1	43	28750	9.7
Pioneer	31Y43	10.7	33.1	32.4	42	26136	.
NK	N91-R9	10.7	35.7	29.8	41	27879	9.4
SS	804	9.8	31.1	31.7	42	28750	.
Croplan Genetics	822RR2/BT	9.8	27.2	35.8	45	26572	.
Hyttest	7924RR2/BT	9.6	27.6	34.8	43	28096	.
SS	842RR2/YGCB	9.6	30.4	31.5	45	27225	.
Golden Acres	2295RR	9.4	28.0	33.6	36	25265	8.2
Vigoro	V58YR2	8.6	26.6	32.2	47	24176	7.7
<i>Average</i>		10.2 ⁴	30.7 ⁵	33.3	43	27261	9.0
<i>LSD at 10% Level</i>		1.2	2.7	2.8	5	N.S.	1.7
<i>Std. Err. of Entry Mean</i>		0.5	1.1	1.2	2	1442	0.6

Calhoun, Georgia: Evaluation of Corn Hybrids for Silage, 2005, Irrigated (Continued)

1. CV = 14.0%, and df for EMS = 24.
2. CV = 11.4%, and df for EMS = 24.
3. The F-test indicated no statistical differences at the $\alpha = .10$ probability level; therefore an LSD value was not calculated.
4. CV = 10.0%, and df for EMS = 33.
5. CV = 7.4%, and df for EMS = 33.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD ($P = 0.10$).

Planted: April 20, 1995.

Harvested: Short-Season: August 15, 2005.

Mid-Season: August 17, 2005.

Seeding Rate: 32,500 seeds/acre in 30" rows.

Soil Type: Rome gravelly clay loam.

Soil Test: P = High, K = High, and pH = 6.1.

Fertilization: 75 lb N, 90 lb P₂O₅, and 180 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.

Previous Crop: Soybean.

Management: Chisel plowed, disked, and rototilled; Atrazine, Lasso, Accent, and one cultivation used for weed control; irrigated 0 inches.

Test conducted by P. A. Rose and J. Stubbs.

Blairsville, Georgia: Evaluation of Corn Hybrids for Silage, 2005, Nonirrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter %	Grain Portion %	Plant Population no.	2-Yr Avg Dry Forage Yield tons/acre
		Dry tons/acre	Green tons/acre				
<u>Short-Season</u>							
Pioneer	33V15	12.0	28.5	42.2	52	29282	12.1
Hyttest	7799Bt	10.9	25.6	42.8	51	28372	10.9
Terral	TV2140nRR	10.6	26.8	39.5	45	28694	11.6
Mycogen	2T780	10.4	27.6	37.8	52	29349	.
NK	1851W	10.0	29.6	33.9	48	28847	11.4
Mycogen	2J787	9.6	24.6	38.9	50	28694	.
AgraTech	717RR	9.3	23.5	39.4	51	27726	10.5
Pioneer	33D63	9.2	27.1	34.1	53	26136	.
SS	692BT	8.9	23.2	38.4	54	28059	.
<i>Average</i>		10.1 ¹	26.3 ²	38.6	51	28351	11.3
<i>LSD at 10% Level</i>		1.0	1.8	3.2	N.S. ³	1526	N.S.
<i>Std. Err. of Entry Mean</i>		0.4	0.7	1.3	3	630	0.5
<u>Mid-Season</u>							
NK	N91-R9	13.1	39.3	33.4	55	27104	13.1
Pioneer	31R87(RR2)	11.6	34.4	33.7	48	28314	.
Greenwood	780	11.4	31.5	36.0	52	25410	12.1
Pioneer	32D99	11.3	32.3	34.9	50	28072	12.3
Hyttest	7924RR2/BT	10.7	31.3	34.1	50	24880	.
SS	804	10.6	27.0	39.3	48	29598	.
SS	842RR2/YGCB	10.6	30.9	34.3	54	27830	.
Pioneer	31Y43	10.4	33.6	30.8	51	28556	.
Croplan Genetics	822RR2/BT	10.3	32.2	31.8	49	29276	.
AgraTech	999Bt	10.2	29.4	34.8	43	28072	.
Vigoro	V58YR2	8.3	24.4	34.2	49	25168	10.8
Golden Acres	2295RR	8.2	26.3	31.5	55	24442	8.5
<i>Average</i>		10.5 ⁴	31.0 ⁵	34.1	50	27227	11.4
<i>LSD at 10% Level</i>		1.7	4.0	3.5	N.S.	2667	1.5
<i>Std. Err. of Entry Mean</i>		0.7	1.7	1.4	3	1114	0.6

Blairsville, Georgia:
Evaluation of Corn Hybrids for Silage, 2005, Nonirrigated
(Continued)

1. CV = 8.4%, and df for EMS = 24.
2. CV = 5.6%, and df for EMS = 24.
3. The F-test indicated no statistical differences at the $\alpha = .10$ probability level; therefore an LSD value was not calculated.
4. CV = 13.2%, and df for EMS = 33.
5. CV = 10.8%, and df for EMS = 33.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD ($P = 0.10$).

Planted: May 9, 2005.

Harvested: September 13, 2005.

Seeding Rate: 30,000 seeds/acre in 30" rows.

Soil Type: Bradson clay loam.

Soil Test: P = High, K = High, and pH = 6.2.

Fertilization: 30 lb N, 60 lb P_2O_5 , and 90 lb K_2O /acre as preplant; 170 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed and disked; Atrazine, Bicep, and one cultivation used for weed control.

Test conducted by P. A. Rose and H. D. Garrett.