

Silage Test Results

Summary of Evaluations of Corn Hybrids for Silage Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2010

Company or Brand Name	Hybrid Name	Quality Factors ¹		Grain Portion %	Dry Matter Yield				
		Milk Production ²			Statewide	Blairsville	Calhoun	Griffin	Tifton
		lbs/ton DM	lbs/acre		Average	tons/acre -----			
<u>Short -Season</u>									
AgraTech	1777	2350	34367	46	.	.	.	.	15.1
Dyna-Gro	57N73	2499	35984	45	12.0	10.6	8.9	13.7	14.8
Dyna-Gro	V5373VT3	2368	30781	48	11.0	10.2	9.1	11.8	12.7
Pioneer	33F87(HX1,LL,RR2)	2324	36857	48	11.1	10.7	8.0	9.8	15.9
<i>Average</i>		2385	34497	47	11.4	10.5	8.7	11.8	14.6
<u>Mid-Season</u>									
AgraTech	1021RR	2207	29676	38	11.0	8.6	9.4	11.7	14.4
AgraTech	825RR	2161	28157	48	.	.	.	.	13.0
AgraTech	999aRR	2133	30395	40	11.8	11.5	9.7	11.6	14.3
Croplan Genetics	8221 VT3	2123	27495	44	10.9	10.0	8.8	11.5	13.2
Croplan Genetics	8756 VT3	1992	26429	46	.	.	.	.	13.3
Croplan Genetics	9009 RH	2040	26243	39	11.4	12.0	8.1	12.8	12.7
DeKalb	DKC67-88(GENVT3P)	2241	33203	43	12.3	11.6	9.8	13.0	14.8
Dyna-Gro	58K02	2235	31073	50	.	.	.	.	14.1
Dyna-Gro	58V69	1965	30494	43	11.8	10.8	9.4	12.7	14.5
Dyna-Gro	58VP99	1986	24919	51	10.8	10.1	8.3	12.4	12.3
Golden Acres	27V01	2169	26854	48	10.8	10.1	8.5	12.5	12.2
Golden Acres	28V71	2346	33777	42	11.7	10.4	10.1	12.2	14.2
Golden Acres	X-6022GTGB	2038	25868	49	.	.	.	.	14.2
Greenwood	GW 3280 RR	2070	28614	44	10.5	10.4	8.7	10.0	12.8
Greenwood	GW 3451 RR	2082	25306	46	10.3	8.7	8.2	12.2	12.2
Greenwood	GW 3515 RR	2402	33752	48	10.2	9.0	7.0	11.2	13.7
MC	MC-590	2343	32889	45	11.6	10.1	8.8	13.1	14.3
Mycogen	TMF2H918RR	2152	26715	38	11.9	11.9	10.6	12.8	12.4
Mycogen	TMF2L831	2403	32468	46	12.6	11.7	12.1	12.4	14.3
Pioneer	31P42(HX1,LL,RR2)	2193	31130	46	11.5	11.0	9.6	11.5	13.7
Pioneer	31Y42(RR2)	2362	34002	45	.	.	.	.	15.1
Pioneer	P2023HR	2241	33673	47	12.3	12.5	10.5	12.5	13.9
<i>Average</i>		2176	29688	45	11.4	10.6	9.3	12.1	13.6
<i>Overall test averages and statistics:</i>									
<i>Average</i>		2208 ³	30427 ⁴	45	11.4 ⁵	10.6	9.2	12.1	13.8
<i>LSD at 10% Level</i>		238	4549	4	0.7	1.3	1.7	1.5	1.5
<i>Std. Err. of Entry Mean</i>		99	1889	2	0.3	0.6	0.7	1.3	0.6

1. Quality factors taken from the replicated silage trial at Tifton.

2. 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.

3. CV = 6.3%, and df for EMS = 25.

4. CV = 8.8%, and df for EMS = 25.

5. CV = 6.8%, and df for EMS = 228.

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

Summary of Quality Factors of Corn Hybrids for Silage Tifton, Georgia, 2010

Company or Brand Name	Hybrid Name	Quality Factors ¹							Dry Matter Yield	
		Milk Production ²		Protein %	NDF %	ADF %	TDN %	Ash %	Grain	
		DM lbs/ton	lbs/acre						Portion %	Tifton tons/acre
<u>Short -Season</u>										
AgraTech	1777	2350	34367	11.7	43.5	27.6	71.0	5.9	46	15.1
Dyna-Gro	57N73	2499	35984	11.6	40.5	26.6	72.2	5.7	45	14.8
Dyna-Gro	V5373VT3	2368	30781	11.2	43.2	27.1	71.7	5.3	48	12.7
Pioneer	33F87(HX1,LL,RR2)	2324	36857	11.6	43.1	27.2	71.5	5.9	48	15.9
<i>Average</i>		2385	34497	11.5	42.6	27.1	71.6	5.7	47	14.6
<u>Mid-Season</u>										
AgraTech	1021RR	2207	29676	11.3	48.3	31.4	66.8	5.6	38	14.4
AgraTech	825RR	2161	28157	10.5	45.6	29.3	69.2	5.4	48	13.0
AgraTech	999aRR	2133	30395	10.4	48.3	30.3	68.0	5.5	40	14.3
Croplan Genetics	8221 VT3	2123	27495	11.2	43.4	28.2	70.4	5.4	44	13.2
Croplan Genetics	8756 VT3	1992	26429	10.2	47.0	29.4	69.1	5.8	46	13.3
Croplan Genetics	9009 RH	2040	26243	10.2	53.2	32.1	66.0	5.8	39	12.7
DeKalb	DKC67-88(GENVT3P)	2241	33203	10.2	44.4	28.5	70.0	5.0	43	14.8
Dyna-Gro	58K02	2235	31073	11.2	43.8	28.1	70.5	6.0	50	14.1
Dyna-Gro	58V69	1965	30494	11.6	50.7	30.6	67.7	5.7	43	14.5
Dyna-Gro	58VP99	1986	24919	10.8	47.1	30.0	68.4	5.5	51	12.3
Golden Acres	27V01	2169	26854	10.9	41.9	25.7	73.2	5.6	48	12.2
Golden Acres	28V71	2346	33777	12.1	43.1	27.1	71.7	6.0	42	14.2
Golden Acres	X-6022GTCB	2038	25868	10.6	44.3	28.5	70.0	6.4	49	14.2
Greenwood	GW 3280 RR	2070	28614	10.6	49.3	29.8	68.5	5.9	44	12.8
Greenwood	GW 3451 RR	2082	25306	11.0	46.8	29.8	68.5	6.4	46	12.2
Greenwood	GW 3515 RR	2402	33752	12.0	39.4	25.4	73.6	5.7	48	13.7
MC	MC-590	2343	32889	11.4	44.1	28.6	70.0	5.6	45	14.3
Mycogen	TMF2H918RR	2152	26715	9.9	50.7	31.6	66.5	6.3	38	12.4
Mycogen	TMF2L831	2403	32468	13.1	41.0	25.7	73.2	5.9	46	14.3
Pioneer	31P42(HX1,LL,RR2)	2193	31130	11.3	47.7	29.7	68.7	4.6	46	13.7
Pioneer	31Y42(RR2)	2362	34002	11.3	45.3	29.1	69.3	6.0	45	15.1
Pioneer	P2023HR	2241	33673	12.3	42.7	28.1	70.5	6.5	47	13.9
<i>Average</i>		2176	29688	11.1	45.8	29.0	69.5	5.8	45	13.6
<i>Overall test averages and statistics:</i>										
<i>Average</i>		2208 ³	30427 ⁴	11.1	45.3	28.7	69.9	5.7	45	13.8
<i>LSD at 10% Level</i>		238	4549	1.3	4.7	2.8	3.2	0.7	4	1.5
<i>Std. Err. of Entry Mean</i>		99	1889	0.6	2.0	0.9	1.3	0.3	2	0.6

1. Quality factors taken from the replicated silage trial at Tifton.

2. 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.

3. CV = 6.3%, and df for EMS = 25.

4. CV = 8.8%, and df for EMS = 25.

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, 2010, 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>							
Pioneer	33F87 (HX1,LL,RR2)	15.9	31.9	50.0	48	33541	.
AgraTech	1777	15.1	33.8	44.7	46	31955	13.0
Dyna-Gro	57N73	14.8	33.8	43.9	45	32789	.
Dyna-Gro	V5373VT3	12.8	29.3	43.5	48	34061	10.8
<i>Average</i>		14.7	32.2	45.5	47	33086	11.9
<u>Mid-Season</u>							
Pioneer	31Y42(RR2)	15.1	35.0	43.3	45	32318	12.2
DeKalb	DKC67-88(GENVT3P)	14.8	33.0	45.2	43	31442	.
Dyna-Gro	58V69	14.5	31.3	46.7	43	32017	12.5
AgraTech	1021RR	14.4	35.1	41.1	38	31581	13.0
AgraTech	999aRR	14.4	33.5	42.9	40	30928	12.0
Mycogen	TMF2L831	14.3	32.8	43.6	46	32693	.
Golden Acres	28V71	14.2	31.9	44.7	42	31955	.
MC	MC-590	14.2	34.6	41.3	45	33106	12.1
Golden Acres	X-6022GTGB	14.2	28.2	50.3	49	33542	.
Dyna-Gro	58K02	14.1	31.8	44.3	50	30710	.
Pioneer	P2023HR	13.9	30.1	46.1	47	33324	.
Greenwood	GW 3515 RR	13.7	32.3	42.6	48	30928	.
Pioneer	31P42 (HX1,LL,RR2)	13.7	31.8	43.1	46	32206	.
Croplan Genetics	8756 VT3	13.3	31.0	42.8	46	30794	.
Croplan Genetics	8221 VT3	13.2	28.4	46.9	44	33698	11.7
AgraTech	825RR	13.0	29.2	44.7	48	31799	.
Greenwood	EX 3280 RR	12.8	29.1	43.8	44	32017	10.9
Croplan Genetics	9009 RH	12.7	30.5	41.9	39	32826	.
Mycogen	TMF2H918RR	12.4	29.9	41.6	38	33083	.
Dyna-Gro	58VP99	12.3	25.7	48.2	51	32888	.
Golden Acres	27V01	12.2	29.2	42.1	48	33187	.
Greenwood	GW 3451 RR	12.2	27.5	44.6	46	30274	.
<i>Average</i>		13.6	31.0	44.2	44.8	32151	12.1
<i>Overall test averages and statistics:</i>							
Average		13.8 ¹	31.2 ²	44.4	45	32295	12
LSD at 10% Level		1.5	3.0	3.9	4	1371	N.S. ³
Std. Err. of Entry Mean		0.6	1.3	1.7	2	582	0.6

Tifton, Georgia:
Evaluation of Corn Hybrids for Silage, 2010, Irrigated (Continued)

1. CV = 9.4%, and df for EMS = 75.
2. CV = 8.4%, and df for EMS = 75.
3. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore an LSD value was not calculated.

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

Planted: March 29, 2010.

Harvested: July 21, 2010.

Seeding Rate: 34,900 seeds/acre in 30" rows.

Soil Type: Tifton loamy sand.

Soil Test: P = High, K = Medium, and pH = 6.4.

Fertilization: 87 lb N, 126 lb P₂O₅, and 213 lb K₂O/acre as preplant; 274 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Subsoiled, bedded and rototilled; Atrazine, Prowl, Accent, and Basagran used for weed control; Telone II used for nematode control; irrigated 8.0 inches.

Test conducted by A. Coy, R. Brooke and D. Dunn.

Griffin, Georgia: Evaluation of Corn Hybrids for Silage, 2010, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter	Grain Portion	Plant Population	2-Yr Avg
		Dry	Green				Dry Forage Yield
		tons/acre		%	%	no.	tons/acre
<u>Short-Season</u>							
Dyna-Gro	57N73	13.7	27.5	50.4	48	31218	.
Dyna-Gro	V5373VT3	11.8	25.9	45.3	52	31702	.
Pioneer	33F87 (HX1,LL,RR2)	9.8	25.6	38.7	48	29524	.
<i>Average</i>		11.8	26.3	<i>44.i</i>	49	30815	.
<u>Mid-Season</u>							
MC	MC-590	13.2	28.3	46.5	52	30734	.
DeKalb	DKC67-88(GENV3P)	13.0	30.1	43.1	46	28556	.
Mycogen	TMF2H918RR	12.9	31.5	40.8	41	31944	.
Croplan Genetics	9009 RH	12.8	31.0	41.2	40	31218	.
Dyna-Gro	58V69	12.7	34.6	36.6	45	31460	.
Pioneer	P2023HR	12.5	27.0	46.7	52	30976	.
Golden Acres	27V01	12.5	24.0	53.6	51	30976	.
Dyna-Gro	58VP99	12.4	23.9	52.5	50	31460	.
Mycogen	TMF2L831	12.4	26.7	46.4	48	31218	.
Greenwood	GW 3451 RR	12.2	29.4	41.6	50	30008	.
Golden Acres	28V71	12.2	27.8	43.9	45	30734	.
AgraTech	1021RR	11.7	30.8	38.2	40	31702	.
AgraTech	999aRR	11.6	28.0	41.5	40	30734	.
Pioneer	31P42 (HX1,LL,RR2)	11.6	25.6	45.2	49	30976	.
Croplan Genetics	8221 VT3	11.5	26.3	44.4	47	30008	.
Greenwood	GW 3515 RR	11.2	25.5	44.1	52	32186	.
Greenwood	EX 3280 RR	10.0	25.9	38.7	49	31218	.
<i>Average</i>		12.1	28.0	43.8	47	30948	.
<i>Overall test averages and statistics:</i>							
<i>Average</i>		12.1 ¹	27.8 ²	44.0	47	30928	.
<i>LSD at 10% Level</i>		1.5	3.2	5.9	3	N.S. ³	.
<i>Std. Err. of Entry Mean</i>		0.6	1.3	2.5	1	780	.

1. CV = 10.5%, and df for EMS = 57.

2. CV = 9.7%, and df for EMS = 57.

3. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore an LSD value was not calculated.

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

Planted: April 1, 2010.

Harvested: August 8, 2010.

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

Soil Type: Pacolet sandy loam.

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

Fertilization: 75 lb N, 150 lb P₂O₅, and 225 lb K₂O/acre as preplant; 175 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed, disked and rototilled; Lasso, Atrazine and one cultivation used for weed control; irrigated 11.0 inches.

Test conducted by J. Gassett and G. Ware.

Calhoun, Georgia: Evaluation of Corn Hybrids for Silage, 2010, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter	Grain Portion	Plant Population	2-Yr Avg
		Dry	Green				Dry Forage Yield
		tons/acre		%	%	no.	tons/acre
<u>Short-Season</u>							
Dyna-Gro	V5373VT3	9.1	19.8	46.4	46	29403	8.6
Dyna-Gro	57N73	8.9	20.2	44.0	45	30274	.
Pioneer	33F87 (HX1,LL,RR2)	8.0	19.2	42.1	44	28314	.
<i>Average</i>		8.7	19.7	44.2	45	29330	8.6
<u>Mid-Season</u>							
Mycogen	TMF2L831	12.1	22.2	54.1	45	29899	.
Mycogen	TMF2H918RR	10.6	23.5	45.4	35	30911	.
Pioneer	P2023HR	10.5	19.6	53.8	46	30492	.
Golden Acres	28V71	10.1	20.5	49.7	41	28750	.
DeKalb	DKC67-88(GENVT3P)	9.8	22.4	44.2	45	29621	.
AgraTech	999aRR	9.8	18.3	53.6	43	27879	11.6
Pioneer	31P42 (HX1,LL,RR2)	9.6	18.4	52.0	41	30274	.
Dyna-Gro	58V69	9.4	21.1	44.5	40	29839	9.0
AgraTech	1021RR	9.3	22.2	42.2	35	27661	.
MC	MC-590	8.8	22.3	39.7	46	29185	9.2
Croplan Genetics	8221 VT3	8.8	20.6	42.8	42	28314	9.5
Greenwood	EX 3280 RR	8.7	16.7	52.9	47	26789	8.8
Golden Acres	27V01	8.5	19.5	43.5	47	30057	.
Dyna-Gro	58VP99	8.3	17.5	47.7	42	28968	.
Greenwood	GW 3451 RR	8.2	17.9	45.7	45	26572	.
Croplan Genetics	9009 RH	8.2	19.8	41.7	38	28968	.
Greenwood	GW 3515 RR	7.1	16.0	44.7	48	28126	.
<i>Average</i>		9.3	19.9	47.0	43	28959	9.6
<i>Overall test averages and statistics:</i>							
<i>Average</i>		9.2 ¹	19.9 ²	46.5	43	29015	9.4
<i>LSD at 10% Level</i>		1.7	3.3	5.1	5	2314	N.S. ³
<i>Std. Err. of Entry Mean</i>		0.7	1.4	2.2	2	978	0.4

1. CV = 15.7%, and df for EMS = 57.

2. CV = 14.1%, and df for EMS = 57.

3. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore an LSD value was not calculated.

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

Planted: April 15, 2010.

Harvested: August 24, 2010.

Seeding Rate: 31,000 seeds/acre in 30" rows.

Soil Type: Etowah loam.

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

Fertilization: 98 lb N, 120 lb P₂O₅, and 320 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed, disked and rototilled; Lasso, Basagran, Accent, Atrazine and one cultivation used for weed control; Lorsban used for insect control; irrigated 14.0 inches.

Test conducted by J. Gasset and G. Ware.

Blairsville, Georgia: Evaluation of Corn Hybrids for Silage, 2010, Nonirrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter %	Grain Portion %	Plant Population no.	2-Yr Avg
		Dry tons/acre	Green tons/acre				Dry Forage Yield tons/acre
<u>Short-Season</u>							
Pioneer	33F87(HX1,LL,RR2)	10.7	20.9	51.3	51	30250	.
Dyna-Gro	57N73	10.6	19.6	54.6	53	30250	.
Dyna-Gro	V5373VT3	10.3	23.2	44.2	51	30008	10.4
<i>Average</i>		10.5	21.2	50	52	30169	10.4
<u>Mid-Season</u>							
Pioneer	P2023HR	12.5	23.5	53.5	54	30008	.
Croplan Genetics	9009 RH	12.0	34.1	35.7	42	30008	.
Mycogen	TMF2H918RR	11.9	31.6	37.6	44	29524	.
Mycogen	TMF2L831	11.8	18.5	64.4	50	30250	.
DeKalb	DKC67-88(GENVT3P)	11.6	24.2	48.3	53	29766	.
AgraTech	999aRR	11.5	29.8	39.1	43	30250	10.9
Pioneer	31P42(HX1,LL,RR2)	11.0	21.1	52.4	51	30250	.
Dyna-Gro	58V69	10.8	29.2	37.3	47	29766	11.9
Greenwood	GW 3280 RR	10.4	21.0	49.8	48	30008	11.2
Golden Acres	28V71	10.4	18.2	57.5	52	30008	.
Golden Acres	27V01	10.1	17.2	59.3	53	29766	.
Dyna-Gro	58VP99	10.1	18.8	53.7	52	29766	.
MC	MC-590	10.1	16.0	63.2	53	29282	10.0
Croplan Genetics	8221 VT3	10.0	24.3	41.4	50	30250	10.2
Greenwood	GW 3515 RR	9.0	15.4	59.2	53	30008	.
Greenwood	GW 3451 RR	8.8	20.8	42.8	53	29524	.
AgraTech	1021RR	8.7	23.2	37.6	36	29766	.
<i>Average</i>		10.6	22.8	49.0	49	29894	10.8
<i>Overall test averages and statistics:</i>							
<i>Average</i>		10.6 ¹	22.5 ²	49.1	49	29935	10.8
<i>LSD at 10% Level</i>		1.3	2.9	6.6	3	N.S. ³	N.S.
<i>Std. Err. of Entry Mean</i>		0.6	1.2	2.8	1	529	0.3

1. CV = 10.5%, and df for EMS = 57.

2. CV = 11.0%, and df for EMS = 57.

3. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore an LSD value was not calculated.

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

Planted: April 29, 2010.

Harvested: September 7, 2010.

Seeding Rate: 31,000 seeds/acre in 30" rows.

Soil Type: Suches loam.

Soil Test: P = Low, K = Very High, and pH = 6.6.

Fertilization: 96 lb N, 56 lb P₂O₅, and 73 lb K₂O/acre as preplant; 90 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed, disked and rototilled; Eradicane, Accent, Callisto and two cultivations used for weed control.

Test conducted by J. Gassett, G. Ware and H. Garrett.