

Silage Test Results

Summary of Evaluations of Corn Hybrids for Silage Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2007

Company or Brand Name	Hybrid Name	Quality Factors ¹			Dry Matter Yield				
		Milk Production ²		Grain Portion %	Statewide				
		lbs/ton DM	lbs/acre			Average	Blairsville	Calhoun	Griffin	Tifton
----- tons/acre -----									
<u>Short -Season</u>									
AgraTech	7711RR	3577	49898	50	11.5	9.4	.	11.1	13.9
Mycogen	2T783	3562	44364	53	.	.	.	11.3	12.5
Mycogen	F2F797	3797	47078	49	.	.	.	9.5	12.3
Mycogen	TMF2Q731	3454	43494	50	.	.	.	9.3	12.6
Pioneer	33V16(YGCB/RR2)	3683	42551	51	10.7	9.6	.	11.1	11.5
SS	731CL	3761	44394	47	10.4	9.1	.	10.3	11.9
Vigoro	V53YR72	3713	47704	52	.	.	.	.	12.8
<i>Average</i>		<i>3650</i>	<i>45640</i>	<i>50</i>	<i>10.9</i>	<i>9.4</i>	.	<i>10.4</i>	<i>12.5</i>
<u>Mid-Season</u>									
AgraTech	1021RR	3829	44899	45	.	.	.	.	11.7
AgraTech	897RR	3641	44925	47	.	.	.	.	12.3
AgraTech	999aRR	3806	46026	47	10.4	8.8	.	10.4	12.1
Croplan Genetics	823 HX/LL	3821	47760	46	.	.	.	.	12.5
Croplan Genetics	851TS	3528	44968	51	10.2	7.5	.	10.3	12.8
Croplan Genetics	8950 RR2/Bt	3603	44952	49	11.2	11.2	.	10.0	12.5
Croplan Genetics	DS 822 RR2/BT	3496	40592	52	.	.	.	.	11.7
DeKalb	RX940RR2	3793	46638	46	10.6	8.5	.	11.1	12.3
DynaGro	58K40	3764	47977	46	11.6	11.3	.	10.9	12.8
Dyna-Gro	58P59	3760	48701	52	.	.	.	.	12.9
DynaGro	58P60	3612	42255	51	.	.	.	.	11.7
DynaGro	CX07916	3629	47278	50	.	.	.	.	13.0
Garst	8248RR	3406	44616	51	.	.	.	.	13.2
NK	N91-J1	3717	46456	50	.	.	.	.	12.5
Pioneer	31D58	3649	45953	50	11.5	11.0	.	11.0	12.6
Pioneer	31P41	3891	47463	49	11.0	11.2	.	9.7	12.2
Pioneer	31R87RR2	3700	40335	48	10.5	10.8	.	9.9	10.7
Pioneer	31Y42(RR2)	3716	45439	47	10.8	10.2	.	10.1	12.2
SS	791CL	3803	44870	49	.	.	.	10.8	11.8
SS	SS842RR2	3611	44192	52	10.9	9.7	.	10.8	12.2
Vigoro	V56YR52	3610	46916	51	.	.	.	.	12.9
Vigoro	V62R66	3832	51127	46	.	.	.	.	13.3
Wabash Valley	GW780	3536	45431	53	10.1	8.2	.	9.3	12.8
Wabash Valley	TL3450RR	3682	41788	53	.	.	.	.	11.4
<i>Average</i>		<i>3685</i>	<i>45482</i>	<i>49</i>	<i>10.8</i>	<i>9.8</i>	.	<i>10.4</i>	<i>12.3</i>
<i>Overall test averages and statistics:</i>									
<i>Average</i>		<i>3677</i> ³	<i>45517</i> ⁴	<i>49</i>	<i>10.8</i> ⁵	<i>9.7</i>	.	<i>10.4</i>	<i>12.4</i>
<i>LSD at 10% Level</i>		<i>188</i>	<i>3677</i>	<i>2</i>	<i>N.S.</i> ⁶	<i>1.3</i>	.	<i>1.2</i>	<i>1.3</i>
<i>Std. Err. of Entry Mean</i>		<i>78</i>	<i>1537</i>	<i>1</i>	<i>0.3</i>	<i>0.6</i>	.	<i>0.5</i>	<i>0.5</i>

Summary of Evaluations of Corn Hybrids for Silage Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2007 (Continued)

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 2006 and reported at lbs milk/ton of dry matter (DM) and lbs milk/acre.
3. CV = 3.0%, and df for EMS = 30.
4. CV = 4.8%, and df for EMS = 30.
5. CV = 10.4%, and df for EMS = 117.
6. The F-test indicated no statistical differences at the $\alpha = .10$ probability level; therefore an LSD value was not calculated.

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, 2007

Company or Brand Name	Hybrid Name	Quality Factors ¹						Dry Matter Yield	
		Milk Production ²		Protein %	NDF %	ADF %	TDN %	Grain	
		DM lbs/ton	lbs/acre					Portion %	Tifton tons/acre
Short -Season									
AgraTech	7711RR	3577	49898	8.4	36.5	19.6	74.0	50	13.9
Mycogen	2T783	3562	44364	8.1	35.5	19.4	74.1	53	12.5
Mycogen	F2F797	3797	47078	8.5	36.3	19.1	74.3	49	12.3
Mycogen	TMF2Q731	3454	43494	8.3	33.6	18.1	74.9	50	12.6
Pioneer	33V16(YGCB/RR2)	3683	42551	8.0	38.5	21.3	72.8	51	11.5
SS	731CL	3761	44394	8.2	38.0	21.3	72.8	47	11.9
Vigoro	V53YR72	3713	47704	8.4	34.0	18.8	74.4	52	12.8
<i>Average</i>		3650	45640	8.3	36.0	19.6	73.9	50	12.5
Mid-Season									
AgraTech	1021RR	3829	44899	8.5	40.2	21.9	72.4	45	11.7
AgraTech	897RR	3641	44925	8.5	34.0	17.5	75.3	47	12.3
AgraTech	999aRR	3806	46026	8.0	37.1	20.0	73.6	47	12.1
Croplan Genetics	823 HX/LL	3821	47760	8.0	39.4	21.7	72.5	46	12.5
Croplan Genetics	851TS	3528	44968	8.5	32.4	15.8	76.4	51	12.8
Croplan Genetics	8950 RR2/Bt	3603	44952	8.7	34.5	20.5	73.4	49	12.5
Croplan Genetics	DS 822 RR2/BT	3496	40592	8.5	31.8	15.6	76.6	52	11.7
DeKalb	RX940RR2	3793	46638	8.8	37.9	20.5	73.3	46	12.3
DynaGro	58K40	3764	47977	8.3	39.8	23.0	71.7	46	12.8
Dyna-Gro	58P59	3760	48701	8.5	36.3	21.3	72.8	52	12.9
DynaGro	58P60	3612	42255	8.5	31.9	17.2	75.5	51	11.7
DynaGro	CX07916	3629	47278	8.7	36.4	18.8	74.4	50	13.0
Garst	8248RR	3406	44616	8.4	30.6	17.0	75.6	51	13.2
NK	N91-J1	3717	46456	8.2	40.1	19.7	73.8	50	12.5
Pioneer	31D58	3649	45953	8.2	34.5	19.8	73.8	50	12.6
Pioneer	31P41	3891	47463	8.2	41.6	24.2	70.9	49	12.2
Pioneer	31R87RR2	3700	40335	8.1	36.4	21.7	72.5	48	10.7
Pioneer	31Y42(RR2)	3716	45439	9.0	36.7	17.9	75.1	47	12.2
SS	791CL	3803	44870	9.0	35.7	20.0	73.7	49	11.8
SS	SS842RR2	3611	44192	8.3	34.5	16.9	75.7	52	12.2
Vigoro	V56YR52	3610	46916	8.3	30.5	16.8	75.8	51	12.9
Vigoro	V62R66	3832	51127	8.4	40.5	22.4	72.1	46	13.3
Wabash Valley	GW780	3536	45431	8.3	33.1	17.1	75.6	53	12.8
Wabash Valley	TL3450RR	3682	41788	8.1	36.5	21.6	72.6	53	11.4
<i>Average</i>		3685	45482	8.4	35.9	19.5	74.0	49	12.3
<i>Overall test averages and statistics:</i>									
<i>Average</i>		3677	45517	8.4	36.0	19.6	74.0	49	12.4
<i>LSD at 10% Level</i>		188	3677	N.S. ³	4.5	4.3	N.S.	2	1.3
<i>Std. Err. of Entry Mean</i>		78	1537	0.2	1.9	1.8	1.1	1	0.5

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 2006 and reported at lbs milk/ton of dry matter (DM) and lbs milk/acre.

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

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, 2007, Irrigated

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>							
AgraTech	7711RR	13.9	29.9	46.5	50	29561	.
Vigoro	V53YR72	12.9	31.7	40.5	52	28096	.
Mycogen	TMF2Q731	12.6	26.7	47.3	50	28968	12.6
Mycogen	2T783	12.5	28.4	44.0	53	30057	13.1
Mycogen	F2F797	12.4	29.1	42.4	49	27008	.
SS	731CL	11.8	28.2	42.0	47	26572	.
Pioneer	33V16(YGCB/RR2)	11.6	25.4	45.5	51	28314	.
<i>Average</i>		<i>12.5</i>	<i>28.5</i>	<i>44.0</i>	<i>50</i>	<i>28368</i>	<i>12.8</i>
<u>Mid-Season</u>							
Vigoro	V62R66	13.3	30.8	43.3	46	27225	.
Garst	8248RR	13.2	29.3	44.9	51	29185	13.1
Vigoro	V56YR52	13.0	30.6	42.3	51	29403	.
DynaGro	CX07916	13.0	27.8	46.6	50	28096	.
Dyna-Gro	58P59	12.9	30.6	42.3	52	27879	.
Wabash Valley	GW780	12.9	28.8	44.6	53	25047	13.5
DynaGro	58K40	12.8	29.4	43.5	46	27443	13.8
Croplan Genetics	851TS	12.8	28.8	44.4	51	28532	13.6
Pioneer	31D58	12.6	29.7	42.3	50	28750	.
Croplan Genetics	823 HX/LL	12.5	30.3	41.2	46	30002	12.8
Croplan Genetics	8950 RR2/Bt	12.5	27.4	45.7	49	29839	.
NK	N91-J1	12.5	29.5	42.4	50	28096	.
DeKalb	RX940RR2	12.3	28.0	43.8	46	25918	.
AgraTech	897RR	12.3	29.1	42.3	47	28690	.
SS	SS842RR2	12.3	28.6	43.0	52	29185	.
Pioneer	31P41	12.2	29.3	41.4	49	28314	.
Pioneer	31Y42(RR2)	12.2	30.6	39.9	47	29403	.
AgraTech	999aRR	12.1	29.9	40.6	47	28314	13.4
SS	791CL	11.8	28.0	42.3	49	27879	.
AgraTech	1021RR	11.8	28.3	41.5	45	27879	13.5
DynaGro	58P60	11.7	27.7	42.1	51	26572	.
Croplan Genetics	DS 822 RR2/BT	11.7	27.0	43.5	52	28314	12.6
Wabash Valley	TL3450RR	11.4	26.5	42.9	53	27661	.
Pioneer	31R87RR2	10.7	25.5	42.1	48	29403	12.8
<i>Average</i>		<i>12.4</i>	<i>28.8</i>	<i>42.9</i>	<i>49</i>	<i>28210</i>	<i>13.2</i>
<i>Overall test averages and statistics:</i>							
<i>Average</i>		12.4 ¹	28.7 ²	43.1	49	28245	13.2
<i>LSD at 10% Level</i>		1.3	2.6	2.2	2	1931	N.S. ³
<i>Std. Err. of Entry Mean</i>		0.5	1.1	0.9	1	821	0.4

Tifton, Georgia:
Evaluation of Corn Hybrids for Silage, 2007, Irrigated (Continued)

1. CV = 8.7%, and df for EMS = 90.
2. CV = 7.8%, and df for EMS = 90.
3. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a 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 23, 2007.

Harvested: July 24, 2007.

Seeding Rate: 31,500 seeds/acre in 30" rows.

Soil Type: Tifton loamy sand.

Soil Test: P = High, K = Medium, and pH = 6.0.

Fertilization: 62 lb N, 125 lb P₂O₅, and 187 lb K₂O/acre as preplant; 203 lb N/acre as sidedress.

Previous Crop: Soybean.

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

Test conducted by A. E. Coy, R. Brooke, and R. Jackson.

Griffin, Georgia: Evaluation of Corn Hybrids for Silage, 2007, Irrigated

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
Short-Season							
Mycogen	2T783	11.4	22.4	50.9	49	.	9.7
AgraTech	7711RR	11.1	20.7	53.8	47	.	.
Pioneer	33V16(YGCB/RR2)	11.1	18.7	59.2	46	.	.
SS	731CL	10.4	20.2	51.3	44	.	.
Mycogen	F2F797	9.5	19.5	49.4	46	.	.
Mycogen	TMF2Q731	9.4	17.7	52.9	43	.	9.2
	<i>Average</i>	<i>10.5</i>	<i>19.9</i>	<i>52.9</i>	<i>46</i>	.	<i>9.4</i>
Mid-Season							
DeKalb	RX940RR2	11.1	21.5	51.5	43	.	.
Pioneer	31D58	11.0	19.6	56.3	47	.	.
DynaGro	58K40	10.9	21.9	50.2	43	.	9.9
SS	791CL	10.8	20.4	53.0	41	.	.
SS	SS842RR2	10.8	19.4	56.0	47	.	.
AgraTech	999aRR	10.4	20.1	51.8	33	.	.
Croplan Genetics	851TS	10.3	20.8	49.9	47	.	.
Pioneer	31Y42(RR2)	10.1	19.9	50.9	44	.	.
Croplan Genetics	8950 RR2/Bt	10.0	19.4	52.1	45	.	.
Pioneer	31R87RR2	9.9	21.1	46.9	43	.	9.2
Pioneer	31P41	9.7	17.1	56.2	38	.	.
Greenwood	GW780	9.3	18.4	50.7	44	.	7.5
	<i>Average</i>	<i>10.4</i>	<i>20.0</i>	<i>52.1</i>	<i>42.9</i>	.	<i>8.9</i>
<i>Overall test averages and statistics:</i>							
	<i>Average</i>	10.4 ¹	19.9 ²	52.4	44	.	9.1
	<i>LSD at 10% Level</i>	1.2	2.5	3.5	6	.	N.S. ³
	<i>Std. Err. of Entry Mean</i>	0.5	1.1	1.5	3	.	0.4

1. CV = 10.0%, and df for EMS = 51.

2. CV = 10.8%, and df for EMS = 51.

3. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a 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 3, 2007.

Harvested: August 23, 2007.

Seeding Rate: 31,500 seeds/acre in 30" rows.

Soil Type: Cecil sandy loam.

Soil Test: P = High, K = High, and pH = 6.0.

Fertilization: 75 lb N, 100 lb P₂O₅, and 150 lb K₂O/acre as preplant; 100 lb N/acre as sidedress.

Previous Crop: Soybean.

Management: Moldboard plowed, disked, and rototilled; Atrazine and Lasso used for weed control; irrigated 15.0 inches.

Test conducted by J. Gasset and G. Ware.

Calhoun, Georgia: Evaluation of Corn Hybrids for Silage, 2007, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield 35% Moisture tons/acre	Grain Portion %	Plant Population no.	2-Yr Avg Dry Forage Yield tons/acre
<u>Short-Season</u>					
SS	731CL	19.2	41	23523	.
AgraTech	7711RR	17.8	41	28314	.
Pioneer	33V16(YGCB/RR2)	17.2	47	25265	.
<i>Average</i>		<i>18.1</i>	<i>43</i>	<i>25701</i>	.
<u>Mid-Season</u>					
Pioneer	31Y42(RR2)	19.0	38	27661	.
Croplan Genetics	851TS	18.2	42	27007	.
SS	791CL	18.2	38	25047	.
Pioneer	31R87RR2	18.0	43	26136	.
Pioneer	31D58	17.1	43	26136	.
DeKalb	RX940RR2	16.6	41	25918	.
AgraTech	999aRR	16.4	41	28096	.
Pioneer	31P41	16.1	42	26136	.
SS	SS842RR2	15.5	41	22434	.
DynaGro	58K40	14.0	41	26789	.
Greenwood	GW780	13.1	37	21780	.
Croplan Genetics	8950 RR2/Bt	11.8	39	25047	.
<i>Average</i>		<i>16.2</i>	<i>40</i>	<i>25682</i>	.
<i>Overall test averages and statistics:</i>					
<i>Average</i>		16.5 ¹	41	25686	.
<i>LSD at 10% Level</i>		3.8	N.S. ²	2880	
<i>Std. Err. of Entry Mean</i>		1.6	3	1211	

1. CV = 19.2%, and df for EMS = 42.

2. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a 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 19, 2007; replanted May 11, 2007.

Harvested: September 12, 2007.

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

Soil Type: Waynesboro loam.

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

Fertilization: 25 lb N, 60 lb P₂O₅, and 160 lb K₂O/acre as preplant; 175 lb N/acre as sidedress.

Previous Crop: Soybean.

Management: Chisel plowed, disked, and rototilled; Atrazine, Lasso, and one cultivation used for weed control; irrigated 15.0 inches.

Test conducted by J. Gasset, G. Ware, and J. Stubbs.

Blairsville, Georgia: Evaluation of Corn Hybrids for Silage, 2007, Irrigated

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
Short-Season							
Pioneer	33V16(YGCB/RR2)	9.6	25.7	37.4	50	29079	.
AgraTech	7711RR	9.4	19.3	49.0	47	28798	.
SS	731CL	9.2	28.1	32.7	51	26821	.
<i>Average</i>		9.4	24.4	39.7	49	28233	.
Mid-Season							
DynaGro	58K40	11.3	27.8	40.7	48	27104	11.1
Croplan Genetics	8950 RR2/Bt	11.2	24.8	45.4	57	27588	.
Pioneer	31P41	11.2	25.4	43.9	54	25168	.
Pioneer	31D58	11.0	24.1	45.6	52	29282	.
Pioneer	31R87RR2	10.8	26.2	41.2	52	27346	12.2
Pioneer	31Y42(RR2)	10.2	26.0	39.2	53	27830	.
SS	SS842RR2	9.7	21.2	45.9	60	24200	.
AgraTech	999aRR	8.8	27.4	32.1	43	27104	.
DeKalb	RX940RR2	8.5	29.3	29.0	46	28072	.
Wabash Valley	GW780	8.2	23.1	35.5	51	21187	9.3
Croplan Genetics	851TS	7.5	12.9	58.4	58	25314	.
<i>Average</i>		9.8	24.4	41.5	52	26381	10.9
<i>Overall test averages and statistics:</i>							
<i>Average</i>		9.7 ¹	24.4 ²	41.1	52	26778	10.9
<i>LSD at 10% Level</i>		1.3	2.3	4.9	6	3260	N.S. ³
<i>Std. Err. of Entry Mean</i>		0.6	1.0	2.0	3	1368	0.7

1. CV = 11.6%, and df for EMS = 39.

2. CV = 7.9%, and df for EMS = 39.

3. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a 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: May 7, 2007.

Harvested: September 26, 2007.

Seeding Rate: 30,100 seeds/acre in 30" rows.

Soil Type: Arkaqua loam.

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

Fertilization: 55 lb N, 110 lb P₂O₅, and 165 lb K₂O/acre as preplant; 153 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed and disked; Aatrex, Imazine, Banvil and two cultivations used for weed control.

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