

Silage Test Results

Summary of Evaluations of Corn Hybrids for Silage Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2009

Company or Brand Name	Hybrid Name	Quality Factors ¹			Dry Matter Yield				
		Milk Production ²		Grain Portion %	Statewide Average	Blairsville	Calhoun	Griffin	Tifton
		lbs/ton DM	lbs/acre							----- tons/acre -----
<u>Short -Season</u>									
AgraTech	1777	2994	32672	49	.	.	.	.	10.9
DeKalb	DKC61-69(VT3)	3145	25134	56	9.8	10.7	10.8	.	8.0
DynaGro	V5373VT3	3212	28434	52	9.2	10.6	8.2	.	8.8
Pioneer	33V16(YGCB/RR2)	3325	24357	50	9.7	11.3	10.4	.	7.4
<i>Average</i>		<i>3169</i>	<i>27649</i>	<i>52</i>	<i>9.6</i>	<i>10.9</i>	<i>9.8</i>	<i>.</i>	<i>8.8</i>
<u>Mid-Season</u>									
AgraTech	1801	3184	25740	49	10.8	13.6	10.7	.	8.1
AgraTech	1021RR	3017	34733	39	.	.	.	.	11.5
AgraTech	999aHx	3383	35082	40	.	.	.	.	10.4
AgraTech	999aRR	3466	32981	39	11.1	10.2	13.4	.	9.5
AgraTech	x9910	3179	35771	43	10.3	10.0	9.7	.	11.3
Croplan Genetics	8221VT3	3232	32974	47	10.2	10.3	10.1	.	10.2
DeKalb	DKC67-23(RR2/YGCB)	3336	27188	49	10.0	12.6	9.3	.	8.1
DeKalb	DKC67-87(RR2/YGCB)	2739	33827	48	.	.	.	.	12.4
DeKalb	DKC68-06(RR2/YGCB)	2630	28320	54	9.7	8.5	10.0	.	10.8
DynaGro	58V24	3225	21536	46	9.8	13.0	9.6	.	6.7
DynaGro	58V50	3218	32016	47	.	.	.	.	9.9
DynaGro	58V69	3441	36130	44	10.7	13.1	8.6	.	10.5
DynaGro	V6263VT3	3135	25776	45	10.5	11.4	11.9	.	8.2
Golden Acres	28Z89	3319	29465	43	11.1	12.7	11.7	.	8.9
Greenwood	EX3103RR	3226	29222	46	9.9	9.6	11.0	.	9.0
Greenwood	EX3113RR	3469	33839	48	10.1	11.2	9.4	.	9.8
Greenwood	EX3280RR	3388	30583	48	10.0	12.0	8.9	.	9.1
MC	MC590	3162	31435	49	9.9	10.0	9.6	.	10.0
Mycogen	TMF2H917RR	3325	35085	43	11.2	12.6	10.3	.	10.6
Mycogen	TMF2L844RR	2900	41146	40	11.1	10.8	8.4	.	14.2
Pioneer	31D58	3218	25507	46	.	.	.	.	7.9
Pioneer	31P41	3341	26551	47	10.0	12.2	9.9	.	8.0
Pioneer	31Y42(RR2)	3526	32701	43	10.1	11.6	9.5	.	9.3
USDA	USDA A	2946	39284	45	.	.	.	.	13.3
USDA	USDA B	3606	27832	41	.	.	.	.	7.7
<i>Average</i>		<i>3224</i>	<i>31389</i>	<i>45</i>	<i>10.4</i>	<i>44.4</i>	<i>10.1</i>	<i>.</i>	<i>9.8</i>
<i>Overall test averages and statistics:</i>									
<i>Average</i>		<i>3217</i> ³	<i>30873</i> ⁴	<i>46</i>	<i>10.2</i> ⁵	<i>11.3</i>	<i>10.1</i>	<i>.</i>	<i>9.7</i>
<i>LSD at 10% Level</i>		<i>223</i>	<i>4343</i>	<i>3</i>	<i>N.S.</i> ⁶	<i>1.3</i>	<i>1.6</i>	<i>.</i>	<i>1.3</i>
<i>Std. Err. of Entry Mean</i>		<i>93</i>	<i>1811</i>	<i>1</i>	<i>0.3</i>	<i>1.5</i>	<i>0.7</i>	<i>.</i>	<i>0.6</i>

Summary of Evaluations of Corn Hybrids for Silage Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2009 (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 2000 and reported at lbs milk/ton of dry matter (DM) and lbs milk/acre.
3. CV = 4.1%, and df for EMS = 28.
4. CV = 8.3%, and df for EMS = 28.
5. CV = 11.5%, and df for EMS = 180.
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 ($P = 0.10$).

Revised February 11, 2010.

Summary of Quality Factors of Corn Hybrids for Silage Tifton, Georgia, 2009

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	2994	32672	10.9	41.2	24.4	64.5	3.8	49	10.9
DeKalb	DKC61-69(VT3)	3145	25134	10.8	38.0	23.0	66.5	3.9	56	8.0
DynaGro	V5373VT3	3212	28434	10.9	38.7	23.6	65.5	3.5	52	8.8
Pioneer	33V16(YGCB/RR2)	3325	24357	10.4	41.3	24.7	64.9	3.9	50	7.4
<i>Average</i>		<i>3169</i>	<i>27649</i>	<i>10.8</i>	<i>39.8</i>	<i>23.9</i>	<i>65.4</i>	<i>3.8</i>	<i>52</i>	<i>8.8</i>
<u>Mid-Season</u>										
AgraTech	1801	3184	25740	10.9	42.1	25.3	63.4	4.0	49	8.1
AgraTech	1021RR	3017	34733	10.9	46.3	26.8	61.9	3.6	39	11.5
AgraTech	999aHx	3383	35082	12.9	40.0	23.2	65.2	3.0	40	10.4
AgraTech	999aRR	3466	32981	10.9	40.1	23.5	65.5	3.3	39	9.5
AgraTech	x9910	3179	35771	12.5	42.4	24.5	63.8	3.4	43	11.3
Croplan Genetics	8221VT3	3232	32974	12.0	36.3	22.1	66.6	2.9	47	10.2
DeKalb	DKC67-23(RR2/YGCB)	3336	27188	11.3	39.8	24.1	65.0	3.7	49	8.1
DeKalb	DKC67-87(RR2/YGCB)	2739	33827	12.3	42.5	25.2	63.4	3.6	48	12.4
DeKalb	DKC68-06(RR2/YGCB)	2630	28320	9.8	38.8	23.7	65.8	3.5	54	10.8
DynaGro	58V24	3225	21536	11.1	39.8	23.7	65.6	3.5	46	6.7
DynaGro	58V50	3218	32016	11.1	36.8	22.0	67.0	3.5	47	9.9
DynaGro	58V69	3441	36130	12.6	39.0	22.9	65.7	3.4	44	10.5
DynaGro	V6263VT3	3135	25776	11.4	43.2	25.7	63.0	3.7	45	8.2
Golden Acres	28Z89	3319	29465	12.4	39.0	23.3	65.0	3.7	43	8.9
Greenwood	EX3103RR	3226	29222	12.3	42.4	25.2	63.4	3.3	46	9.0
Greenwood	EX3113RR	3469	33839	13.7	38.3	21.6	67.3	2.8	48	9.8
Greenwood	EX3280RR	3388	30583	12.0	39.2	23.8	64.7	3.1	48	9.1
MC	MC590	3162	31435	12.2	38.1	22.8	66.2	3.5	49	10.0
Mycogen	TMF2H917RR	3325	35085	12.4	35.3	22.2	66.5	3.1	43	10.6
Mycogen	TMF2L844RR	2900	41146	10.9	39.1	24.2	65.0	3.3	40	14.2
Pioneer	31D58	3218	25507	12.4	40.0	24.6	63.9	4.0	46	7.9
Pioneer	31P41	3341	26551	11.8	40.2	23.3	65.6	3.4	47	8.0
Pioneer	31Y42(RR2)	3526	32701	12.6	40.5	23.1	65.2	3.5	43	9.3
USDA	USDA A	2946	39284	11.2	41.1	24.6	64.1	3.8	45	13.3
USDA	USDA B	3606	27832	12.8	40.0	23.4	64.9	3.3	41	7.7
<i>Average</i>		<i>3224</i>	<i>31389</i>	<i>11.9</i>	<i>40.0</i>	<i>23.8</i>	<i>65.0</i>	<i>3.4</i>	<i>45</i>	<i>9.8</i>
<i>Overall test averages and statistics:</i>										
<i>Average</i>		3217 ³	30873 ⁴	11.7	40.0	23.8	65.0	3.5	46	9.7
<i>LSD at 10% Level</i>		223	4343	1.4	3.8	1.9	2.2	N.S. ^b	3	1.3
<i>Std. Err. of Entry Mean</i>		93	1811	0.6	1.6	0.8	0.9	0.3	1	0.6

Summary of Quality Factors of Corn Hybrids for Silage Tifton, Georgia, 2009 (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 2000 and reported at lbs milk/ton of dry matter (DM) and lbs milk/acre.
3. CV = 4.1%, and df for EMS = 28.
4. CV = 8.3%, and df for EMS = 28.
5. 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).

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Tifton, Georgia: Evaluation of Corn Hybrids for Silage, 2009, 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	1777	11.0	27.8	39.4	49	31799	.
DynaGro	V5373VT3	8.9	29.4	30.0	52	33324	9.1
DeKalb	DKC61-69(VT3)	8.0	25.5	31.3	56	32017	8.5
Pioneer	33V16(YGCB/RR2)	7.3	28.1	26.2	50	30928	8.8
<i>Average</i>		8.8	27.7	31.7	52	32017	8.8
<u>Mid-Season</u>							
Mycogen	TMF2L844RR	14.2	35.3	40.2	40	32017	12.4
USDA	USDA A	13.3	28.9	46.1	45	32670	.
DeKalb	DKC67-87(RR2/YGCB)	12.4	27.8	44.5	48	33106	11.2
AgraTech	1021RR	11.5	30.9	37.2	39	32235	11.2
AgraTech	x9910	11.3	28.8	39.1	43	29621	.
DeKalb	DKC68-06(RR2/YGCB)	10.8	22.6	47.8	54	29403	.
Mycogen	TMF2H917RR	10.6	30.2	35.0	43	30057	10.2
DynaGro	58V69	10.5	32.2	32.7	44	31581	.
AgraTech	999aHx	10.4	30.1	34.7	40	30056	.
Croplan Genetics	8221VT3	10.2	30.4	33.6	47	32452	10.1
MC	MC590	10.0	25.1	39.6	49	29839	.
DynaGro	58V50	9.9	27.8	36.0	47	30710	.
Greenwood	EX3113RR	9.8	26.3	37.1	48	30492	.
AgraTech	999aRR	9.6	29.4	32.4	39	29839	10.1
Pioneer	31Y42(RR2)	9.3	31.9	29.0	43	31581	10.0
Greenwood	EX3280RR	9.1	26.5	34.3	48	30710	9.9
Greenwood	EX3103RR	9.1	29.6	30.8	46	31581	.
Golden Acres	28Z89	8.9	29.4	30.2	43	32452	.
DynaGro	V6263VT3	8.2	29.7	27.8	45	31363	.
DeKalb	DKC67-23(RR2/YGCB)	8.2	26.5	30.9	49	32452	9.2
AgraTech	1801	8.1	25.0	32.4	49	33541	.
Pioneer	31P41	8.0	27.3	29.1	47	31145	9.0
Pioneer	31D58	7.9	27.6	28.7	46	31364	9.1
USDA	USDA B	7.7	28.0	27.5	41	30927	.
DynaGro	58V24	6.7	28.2	23.7	46	28532	.
<i>Average</i>		9.8	28.6	34.4	45	31189	10.2
<i>Overall test averages and statistics:</i>							
<i>Average</i>		9.7 ¹	28.5 ²	34.0	46	31303	9.9
<i>LSD at 10% Level</i>		1.3	2.8	3.3	3	1636	1.1
<i>Std. Err. of Entry Mean</i>		0.6	1.2	1.4	1	696	0.5

Tifton, Georgia:
Evaluation of Corn Hybrids for Silage, 2009, Irrigated (Continued)

1. CV = 11.6%, and df for EMS = 84.

2. CV = 8.4%, and df for EMS = 84.

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

Planted: April 10, 2009.

Harvested: July 28, 2009.

Seeding Rate: 34,000 seeds/acre in 30" rows.

Soil Type: Tifton loamy sand.

Soil Test: P = High, K = Medium, and pH = 6.9.

Fertilization: 70 lb N, 70 lb P_2O_5 , and 210 lb K_2O /acre as preplant; 162 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Subsoiled, bedded, and rototilled; Atrazine, Prowl, Basagran and one cultivation used for weed control; irrigated 4.5 inches.

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

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Griffin, Georgia: Evaluation of Corn Hybrids for Silage, 2009, 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>					
DynaGro	V5373VT3	19.2	16	31944	.
DeKalb	DKC61-69(VT3)	17.5	33	31218	.
Pioneer	33V16(YGCB/RR2)	17.4	38	31702	.
<i>Average</i>		18.0	29	31621	.
<u>Mid-Season</u>					
DynaGro	V6263VT3	22.3	37	30250	.
DynaGro	58V69	21.4	31	30492	.
Mycogen	TMF2L844RR	20.9	30	30250	.
AgraTech	825RR	20.9	33	31218	.
Croplan Genetics	8221VT3	20.5	33	31218	.
AgraTech	999aRR	20.4	26	30492	.
DynaGro	58V24	19.8	36	31218	.
Mycogen	TMF2H917RR	19.6	23	31944	.
DeKalb	DKC67-23(RR2/YGCB)	19.5	32	31702	.
Golden Acres	28Z89	19.5	32	30976	.
Greenwood	EX3103RR	19.1	34	30492	.
AgraTech	x9910	18.5	32	29282	.
DeKalb	DKC68-06(RR2/YGCB)	18.2	40	31460	.
Greenwood	EX3113RR	17.6	34	29040	.
Pioneer	31P41	17.0	26	31460	.
Greenwood	EX3280RR	16.8	33	29282	.
AgraTech	1801	16.1	27	31702	.
MC	MC590	15.8	18	30250	.
Pioneer	31Y42(RR2)	15.0	26	30250	.
<i>Average</i>		18.9	31	30683	.
<i>Overall test averages and statistics:</i>					
<i>Average</i>		18.8 ¹	31	30811	.
<i>LSD at 10% Level</i>		2.4	8	N.S. ²	
<i>Std. Err. of Entry Mean</i>		1.0	3	735	

1. CV = 11.1%, and df for EMS = 63.

2. 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, 2009.

Harvested: September 9, 2009.

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

Soil Type: Pacolet coarse sandy loam.

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

Fertilization: 75 lb N, 150 lb P₂O₅, and 225 lb K₂O/acre as preplant; 100 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, 2009, 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
Short-Season							
DeKalb	DKC61-69(VT3)	10.8	25.7	42.3	53	27661	10.3
Pioneer	33V16(YGCB/RR2)	10.4	23.9	43.1	54	24612	10.4
DynaGro	V5373VT3	8.2	20.8	39.3	50	23958	.
<i>Average</i>		9.8	23.5	41.6	52	25410	10.4
Mid-Season							
AgraTech	999aRR	13.4	28.0	47.9	49	26354	10.6
DynaGro	V6263VT3	11.9	25.8	46.2	59	26572	.
Golden Acres	28Z89	11.7	27.1	43.2	55	23522	.
Greenwood	EX3103RR	11.1	26.2	42.8	52	24829	.
AgraTech	1801	10.7	26.4	40.7	50	26572	.
Mycogen	TMF2H917RR	10.4	27.0	38.2	47	25265	.
Croplan Genetics	8221VT3	10.1	21.8	46.2	54	26572	9.9
DeKalb	DKC68-06(RR2/YGCB)	10.0	23.6	42.0	51	24176	.
Pioneer	31P41	9.9	24.5	40.7	52	25918	9.9
AgraTech	x9910	9.7	26.6	37.1	53	27661	.
AgraTech	825RR	9.7	23.1	42.1	56	25483	.
DynaGro	58V24	9.6	25.4	37.7	53	26790	.
MC	MC590	9.6	24.3	39.7	53	24829	.
Pioneer	31Y42(RR2)	9.6	25.2	37.9	52	23740	10.1
Greenwood	EX3113RR	9.4	25.5	36.9	52	26354	.
DeKalb	DKC67-23(RR2/YGCB)	9.3	24.4	37.9	54	26789	.
Greenwood	EX3280RR	8.9	21.3	41.5	54	26136	.
DynaGro	58V69	8.6	23.8	36.3	52	26136	.
Mycogen	TMF2L844RR	8.4	25.1	34.0	53	24611	.
<i>Average</i>		10.1	25.0	40.5	53	25700	10.1
<i>Overall test averages and statistics:</i>							
<i>Average</i>		10.0 ¹	24.8 ²	40.6	53	25661	10.2
<i>LSD at 10% Level</i>		1.6	N.S. ³	3.9	5	N.S.	N.S.
<i>Std. Err. of Entry Mean</i>		0.7	2.3	1.6	2	1406	0.5

1. CV = 13.8%, and df for EMS = 63.

2. CV = 17.9%, and df for EMS = 63.

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: May 13, 2009.

Harvested: September 14, 2009.

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

Soil Type: Etowah loam.

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

Fertilization: 98 lb N, 72 lb P₂O₅, and 144 lb K₂O/acre as preplant; 134 lb N/acre as sidedress.

Previous Crop: Fallow.

Management: Moldboard plowed, disked and rototilled; Lasso, Accent, Atrazine and one cultivation used for weed control; Warrior used for insect control; irrigated 12.0 inches.

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

Blairsville, Georgia: Evaluation of Corn Hybrids for Silage, 2009, 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				
Short-Season							
Pioneer	33V16(YGCB/RR2)	11.3	31.4	36.4	53	27346	11.2
DeKalb	DKC61-69(VT3)	10.7	31.7	34.1	54	26378	10.7
DynaGro	V5373VT3	10.6	30.9	34.3	59	27588	.
<i>Average</i>		<i>10.9</i>	<i>31.3</i>	<i>34.9</i>	<i>55</i>	<i>27104</i>	<i>11.0</i>
Mid-Season							
AgraTech	1801	13.6	35.0	38.9	57	27588	.
DynaGro	58V24	13.1	36.5	35.9	58	28072	.
DynaGro	58V69	13.1	41.8	31.4	52	28072	.
Golden Acres	28Z89	12.8	38.8	33.0	50	28072	.
DeKalb	DKC67-23(RR2/YGCB)	12.6	35.9	35.4	56	27830	.
Mycogen	TMF2H917RR	12.6	40.7	31.0	47	28072	.
AgraTech	825RR	12.5	35.7	35.0	56	28072	.
Pioneer	31P41	12.2	33.5	36.5	56	27104	11.3
Greenwood	EX3280RR	12.0	33.0	36.4	51	26620	.
Pioneer	31Y42(RR2)	11.6	44.9	26.1	50	27104	11.0
DynaGro	V6263VT3	11.4	38.2	29.9	51	27830	.
Greenwood	EX3113RR	11.2	27.3	41.1	54	27588	.
Mycogen	TMF2L844RR	10.8	38.0	28.5	46	25894	.
Croplan Genetics	8221VT3	10.3	36.6	28.2	56	28072	10.7
AgraTech	999aRR	10.2	38.1	26.9	45	27830	10.1
MC	MC590	10.0	31.6	31.6	58	23232	.
AgraTech	x9910	10.0	32.3	31.1	54	25894	.
Greenwood	EX3103RR	9.6	29.5	32.9	53	25652	.
DeKalb	DKC68-06(RR2/YGCB)	8.5	26.7	31.7	59	25410	.
<i>Average</i>		<i>11.5</i>	<i>35.5</i>	<i>32.7</i>	<i>53</i>	<i>27053</i>	<i>10.8</i>
<i>Overall test averages and statistics:</i>							
<i>Average</i>		11.4 ¹	34.9 ²	33.0	53	27060	10.8
<i>LSD at 10% Level</i>		1.3	3.5	3.7	3	1373	N.S. ³
<i>Std. Err. of Entry Mean</i>		0.5	1.5	1.6	2	582	0.4

1. CV = 9.5%, and df for EMS = 63.

2. CV = 8.4%, and df for EMS = 63.

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 30, 2009.

Harvested: September 9, 2009.

Seeding Rate: 29,500 seeds/acre in 30" rows.

Soil Type: Suches loam.

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

Fertilization: 83 lb N, 64 lb P₂O₅, and 32 lb K₂O/acre as preplant; 119 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed, disked and rototilled; Atrex, Simazine, Banville and two cultivations used for weed control.

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