



### **Stafford Silo King corn-treated**

The harvest on Mr. Stafford's corn crop averaged 254.47 bushels per acre on 71 units of nitrogen and a total input cost of \$189.02, or \$.74 per bushel. The testing occurred on 10-07-09 and 10-09-09 with an Agriculture Extension Agent from the University of Georgia. The growing conditions were not favorable as little rainfall occurred during the prime growing season, and there were flooding rains at the critical end-of-crop maturity stage. This resulted in a moisture penalty of 14 bushels per acre, and there were 15 bushels not harvestable due to the floods.



(706) 629-8122  
2050 Roland Hayes Pkwy. ( Hwy 156W)  
CALHOUN, GA 30701

No. **17115**  
DATE 10-9-09

DRIVER ( ) ON ( ) OFF \_\_\_\_\_ LOAD OF Corn ( ) IN ( ) OUT \_\_\_\_\_  
(Spot, Stg, Cont, D. P. - Other)

24700 lb 09:47AM 10/09/2009  
**GROSS**  
24700

NAME Baxter, David Stafford

9660 lb 10:02AM 10/09/2009  
**TARE**  
9660

FARM ID# Baxter Time In \_\_\_\_\_ Out \_\_\_\_\_

**NET**  
15040

Grade \_\_\_\_\_ Truck ID # \_\_\_\_\_

Wt. Dkg. or F.M. \_\_\_\_\_ % \_\_\_\_\_ Lbs.

DISCOUNTS		
Mois.	<u>19.0</u> %	c
T.W.	<u>SUP</u> #	c
Dmg.	%	c
F.M.	%	c
Dkg.	%	c
Splits	%	c
Other		

Driver \_\_\_\_\_

Moisture Disc. 5.25 % 789.6 Lbs.

Freight \_\_\_\_\_

Clean Grain 14250.4

Base Price \_\_\_\_\_

Total Disc. \_\_\_\_\_

NET PRICE \$ \_\_\_\_\_

WEIGHER BK

WHITE & YELLOW / OFFICE - PINK / DRIVER - BUFF / ACCTNG 254.47 Bu. @ \_\_\_\_\_ \$ \_\_\_\_\_

Stafford Farms, Crandal Georgia 2009  
254.47 BPA after a 5.25% moisture penalty  
70 units of N  
4 oz. per acre of Accele-Grow-M in furrow  
1 eight oz. per acre foliar treatment @ 11 leaf stage

University of Georgia Yield Certification  
Total production cost 0.74 cents per bushel

# DISCOVER YOUR CORN PRODUCTION EFFICIENCY



## WHY PRODUCTION EFFICIENCY?

If you grow corn, make sure your production costs are less than your selling price.

The Georgia Corn Yield Contest has been conducted in the state for many years, and has promoted high yield practices. But it has sometimes been viewed as encouraging practices that are not economically viable. For this reason and as corn production is frequently considered unprofitable, the corn production program this year also includes an efficiency component.

To participate, obtain a measured yield from a minimum of one acre in one field. List your variable crop inputs on page 3 of this form, and your labor, fuel and machinery costs on page 4. Page 2 is designed to summarize the costs.

If actual costs are less than those assigned some specific items in this form, a statement of justification for changes should accompany the entry.

Entries must be submitted on Production Efficiency forms, and postmarked by October 23, 2009. Recognition of efficiency winners in each Extension district and at the state level will be made at the Annual Corn Growers Association Meeting in January 2010, at the Rural Development Center in Tifton Georgia.

But most important, you can evaluate your own corn program. Each entrant will receive a summary of the program so you can compare your program with others. This way you can have your own information to help with future corn production.

Mail your entry to: Dr. Dewey Lee, Horticulture Building, P. O. Box 748, Tifton, Georgia 31793.

Other details are available from your local county Extension office.

Acres Entered 1

Yield (bu./acre)

@ 15.5% moisture 2-254.47

Production Efficiency

(Cost per Bushel) \$ \_\_\_\_\_

**1. Grower Identification:**

a. Name David Stafford

b. Street or Box No. 1750 Temple Grove Rd.

c. City, Zip Crandall, GA 30711

d. County Murray

2.  Conventional or  No-Till (circle one)

3. Irrigated or  Dry Land (circle one)

**4. Variety Information:**

a. Hybrid Anderson Silo King

b. Plants per 50 ft. row 72

**5. Dates:**

a. Planting date April 23, 2009

b. Harvest date October 7, 2009

**6. Harvest Area Information:**

a. Length (ft.) 871.2

b. Width (ft.) 50

c. Row width (in.) 30"

**7. Previous Crops (indicate if fallow):**

a. Winter \_\_\_\_\_

b. Summer Soybeans

Supply the following inputs and compute your Production Efficiency on Page 2.

We certify to the best of our knowledge the information supplied herein is accurate.

Grower David Stafford

Date \_\_\_\_\_

Agent Kenneth G. Dwyer

Date \_\_\_\_\_

**SUMMARY OF CORN INPUTS**  
List Costs Here from Pages 3 & 4

VARIABLE COSTS	COST PER ACRE	
1. Seed and Fertilizer -(From Page 3)	\$ 66.51	
2. Chemicals -(From Page 3)	\$ 28.00	
3. Machinery Custom Hire -(From Page 3)	\$ 5.00	
4. Other Expenses -(From Page 3)	\$ .81	
5. Labor -(From Page 4) _____ Hrs. @ \$ 7.00 =	\$ 1.54	
6. Fuel -(From Page 4) _____ gal. @ \$ _____ =	\$ 2.10	
7. Equipment Repair Costs - (From Page 4)	\$ 6.96	
8. Land Rental Cost for This Field	\$ 75.00	<small>List rent paid including items such as irrigation. If owned, list rental value.</small>
9. Irrigation: Cash Costs of Applying Water Cable Tow: _____ Appl. @ \$14.00, or Center Pivot: _____ Appl. @ \$10.00, or Actual Cost: _____ Appl. @ _____	\$ 0	
10. Interest on Operating Capital \$ ( _____ ) @ _____ % - (for 6 months) <small>Sums of lines 1-9 Interest Rate</small>	\$ 0	<small>If owed funds are used, this is the opportunity cost for money.</small>

<b>Sub-Total of Variable Costs</b>	<b>\$ 185.92</b>
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**FIXED COSTS**

11. Equipment Fixed Costs -(From Page 4)	\$ 3.10	
12. General Overhead (\$ _____ x 5%) <small>Variable costs</small>	\$ 0	<small>Farm costs not specifically allocated to the Crop.</small>
13. Irrigation Overhead For <b>Owned</b> Irrigation Equipment Cable Tow: _____ \$75.00 per acre, or Center Pivot: _____ \$60.00 per acre	\$ 0	

<b>Sub-Total of Fixed Costs</b>	<b>\$ 3.10</b>
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<b>TOTAL COSTS</b> (Variable plus Fixed Costs)	
Per Acre -----	\$ 189.02
Per Bushel: (Total Cost \$ _____ ÷ Bushels Yield _____)	= \$ .74

Prepared by: Dewey Lee, Extension Agronomist

The Cooperative Extension Service, The University of Georgia College of Agricultural and Environmental Sciences, offers educational programs to all people without regard to race, color, national origin, age, sex, or disability.  
AN EQUAL OPPORTUNITY EMPLOYER

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Extension Agriculture Economics - 8

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Robert Isaac, Associate Dean for Extension



(Start Listing Inputs Here ←)

VARIABLE CROP INPUTS PER ACRE						
Input Item	No. Units		Price Per Unit		Cost Per Acre	
<b>Seed &amp; Fertilizer</b>						
Seed	80,000 Seed	K(Bag)	x	\$ 58.00	= \$ 18.13	
Lime-See Notes, (Bottom Pg.4)	0	Ton	x		= 0	
Fertilizer-See Notes, (Bottom Pg.4)						
Starter (Analysis) 12-28-0	5 gal.	Lb./gal	x	4.50 gal.	= 22.50	
Nitrogen	68	Lb./gal	x	.20	= 13.60	
Phosphorus (P <sub>2</sub> O <sub>5</sub> )		Lb.	x		=	
Potash (K <sub>2</sub> O)		Lb.	x		=	
Manure		Ton	x		=	
Other Acela Grow	12 oz	Lb.	x	131 gal	= 12.28	
<b>TOTAL SEED &amp; FERTILIZER COSTS</b>					<b>Enter on Page 2, Line 1</b>	<b>\$ 66.51</b>

Chemicals						
HERBICIDES (list)		Appl.	x	\$	= \$	
1. Lexor	3 qt.	Appl.	x		= 28.00	
2.		Appl.	x		=	
INSECTICIDES (Material Only)		Appl.	x		=	
1.		Appl.	x		=	
2.		Appl.	x		=	
NEMATICIDES		Appl.	x		=	
OTHERS (seed treatment)						
<b>TOTAL CHEMICAL COSTS</b>					<b>Enter on Page 2, Line 2</b>	<b>\$ 28.00</b>

Custom Machinery Hire						
Custom Spraying		Acre	x	\$	= \$	
<small>indicate if cost includes spray material</small>						
Combine	1		x	\$	= \$ 5	
Other (List)						
1.			x	\$	= \$	
2.			x	\$	= \$	
<b>TOTAL CUSTOM HIRE</b>					<b>Enter on Page 2, Line 3</b>	<b>\$ 5</b>

Other Expenses						
Crop Insurance		Acre	x	\$	x \$ .60	
Drying			x	\$	x \$ .21	
<b>TOTAL OTHER EXPENSES</b>					<b>Enter on Page 2, Line 4</b>	<b>\$ .81</b>

(Now go to Page 4 ←)

**VARIABLE AND FIXED COSTS OF OPERATING MACHINERY**

Use these guides to estimate your per acre labor, fuel and equipment costs. Indicate the number of times each field operation was performed and calculate the time, and costs for each job. These estimates are calculated in accordance with Agricultural Engineering procedures, and are based on a 10-year machinery life.

Field Operation	Times Over	Labor Used		Fuel Used		Equipment Repair Costs Per Time Over				Equipment Fixed Costs Per Time Over		
		Per Time Over	Total	Per Time Over	Total	Equipment Age			Equipment Age			
						0-5 Yrs	6-10 Yrs	>10 Yrs	Total	0-10 Yrs	>10 Yrs	Total
		Minutes		Gallons								
Plow		24		1.40		\$1.48	\$2.80	\$4.46	4.46	\$6.00	\$2.00	\$ 2.00
Heavy Disk	1	10	6	1.00	.75	.77	1.66	2.77		3.65	1.33	
Light Disk		8		.70		.52	1.08	2.00		2.40	.80	
In-Row Subsoil and Bed		15		1.70		.83	1.50	2.30		3.50	1.20	
Disk and Apply Herbicide		10		.70		.80	1.45	2.25		3.10	1.10	
In-Row Subsoil and Plant		15		1.70		1.20	2.25	3.50		5.50	1.81	
Strip Till		12		.75		.86	2.53	4.23		3.75	1.20	
Strip Till, Plant and Apply Herbicide		15		1.60		1.75	3.40	5.50		5.50	1.80	
Chisel Plow		15		1.30		.60	1.30	1.95		2.70	.90	
Plant		10		.50		.70	1.50	2.30		3.00	1.00	
Cultivate Cult Pack	1	10	4	.50	.23	.50	.96	1.10	1.10	1.65	.60	.60
No Till, Plant		10		.55		1.40	2.95	4.70		3.40	1.15	
Sidedress		8		.20		.49	.75	1.55		1.15	.38	
Apply Herbicide: Pre-emerge		8		.20		.48	.70	1.40		1.30	.50	
Post-emerge	1	8	3	.20	.06	.48	.70	1.40	1.40	1.30	.50	.50
Directed		8		.20		.48	.70	1.40		1.30	.50	
Spray:												
Tractor Mounted		8		.20		.48	.70	1.40		1.30	.50	
High Clearance		6		.12		.80	1.70	2.60		2.80	1.00	
Combine		20		1.70		4.25	8.50	14.00		28.00	10.00	
Haul		20		1.00		.50	1.10	2.25		1.15	.35	
OTHER												
<b>TOTALS</b>		min	13 min.		1.06				\$ 6.96			\$ 3.10
<b>ENTER ON:</b>		+60 = 2 hrs.										
		Page 2, Line 5		Page 2, Line 6		Page 2, Line 7			Page 2, Line 11			

**NOTES FOR SPECIFIC COST ITEMS -For Page 3**

Lime- If lime is not applied this year assign a cost for lime based on the number of years lime is utilized (One ton of lime applied every three years would result in an annual cost of 1/3 of a ton).

Manure- If manure is applied, indicate analysis, amount applied per acre and cost per ton on Page 3, Seed and Fertilizer Section, Line Manure.