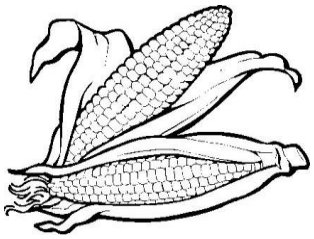
Georgia High Yield Corn and Production Efficiency Program



The Georgia Corn Yield Contest has been conducted in the state for many years which has promoted high yield practices. But it has sometimes been viewed as encouraging practices that are not economically viable. For this reason the corn production program includes an efficiency component. Identifying your cost per bushel helps you determine just how efficient you are with your crop as you price your crop for 2016 and 2017. Reaching high yields on your farm is exciting and very satisfying but making a profit each year will sustain your farm.

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 27, 2016. 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 2017, at the Tifton Campus Conference 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, 2360 Rainwater Rd., Tifton, Georgia 31793-5766.

Other details are available from your local county Extension office.

Acres Entered _____

Yield (bu./acre)

@ 15.5% moisture_____

Production Efficiency

(Cost per Bushel) $_____

1. Grower Identification:

a. Name _____

b. Street or Box No. _____

c. City, Zip _____

d. County _____

2. Conventional or No-Till (circle one)

3. Irrigated or Dry Land (circle one)

4. Variety Information:

a. Hybrid _____

b. Plants per 50 ft. row _____

5. Dates:

a. Planting date _____

b. Harvest date _____

6. Harvest Area Information:

a. Length (ft.) _____

b. Width (ft.) _____

c. Row width (in.)_____

7. Previous Crops (indicate if fallow):

a. Winter _____

b. Summer _____

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_____

Date _____

Agent _____

Date _____

SUMMARY OF CORN INPUTS

List Costs Here from Pages 3 & 4

VARIABLE COSTS	COST PER ACRE
1. Seed and Fertilizer -(From Page 3)	$_____
2. Chemicals -(From Page 3)	$_____
3. Machinery Custom Hire -(From Page 3)	$_____
4. Other Expenses -(From Page 3)	$_____
5. Labor -(From Page 4) _____ Hrs. @ $ _____ ($7.55 min) =	$_____
6. Fuel -(From Page 4) _____gal. @ $_____ =	$_____
7. Equipment Repair Costs - (From Page 4)	$_____
8. Land Rental Cost for This Field	$_____ List rent paid including items such as irrigation. If owned, list rental value.
9. Irrigation: Cash Costs of Applying Water Cable Tow: _____Appl. @ $14.00, or Center Pivot:_____ Appl. @ $10.00, or Actual Cost:_____Appl. @ _____	$_____
10. Interest on Operating Capital $ (_____) @_____ % - (for 6 months) Sums of lines 1-9 Interest Rate	$_____ If owed funds are used, this is the opportunity cost for money.
Sub-Total of Variable Costs	**$**_____

FIXED COSTS	
11. Equipment Fixed Costs -(From Page 4)	$_____
12. General Overhead ($_____ x 5%) Variable costs	$_____ Farm costs not specifically allocated to the Crop.
13. Irrigation Overhead For **Owned** Irrigation Equipment Cable Tow: _____$75.00 per acre, or Center Pivot: _____$60.00 per acre	$_____
Sub-Total of Fixed Costs	$_____

TOTAL COSTS
(Variable plus Fixed Costs)

Per Acre ----------$_____

Per Bushel: (Total Cost $_____ ÷ Bushels Yield _____) = $_____

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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
Seed & Fertilizer						
Seed	_____	K(Bag)	x	$_____	=	$_____
Lime-See Notes, (Bottom Pg.4)	_____	Ton	x	_____	=	_____
Fertilizer-See Notes, (Bottom Pg.4)						
Starter (Analysis)_____	_____	Lb./gal	x	_____	=	_____
Nitrogen	_____	Lb./gal	x	_____	=	_____
Phosphorus ($P_2$05)	_____	Lb.	x	_____	=	_____
Potash ($K_2$0)	_____	Lb.	x	_____	=	_____
Manure	_____	Ton	x	_____	=	_____
Other_____	_____	Lb.	x	_____	=	_____
TOTAL SEED & FERTILIZER COSTS		**Enter on Page 2, Line 1**				$_____
Chemicals						
HERBICIDES (list)	_____	Appl.	x	$_____	=	$_____
1._____	_____	Appl.	x	_____	=	_____
2. _____	_____	Appl.	x	_____	=	_____
INSECTICIDES(Material Only)		Appl.	x		=	
1._____	_____	Appl.	x	_____	=	_____
2._____	_____	Appl.	x	_____	=	_____
NEMATICIDES	_____	Appl.	x	_____	=	_____
OTHERS(seed treatment)						
TOTAL CHEMICAL COSTS		**Enter on Page 2, Line 2**				$_____
Custom Machinery Hire						
Custom Spraying						
indicate if cost includes spray material	_____	Acre	x	$_____	=	$_____
Combine	_____		x	$_____	=	$_____
Other (List)						
1._____	_____		x	$_____	=	$_____
2._____	_____		x	$_____	=	$_____
TOTAL CUSTOM HIRE		**Enter on Page 2, Line 3**				$_____
Other Expenses						
Crop Insurance	_____	Acre	x	$_____	x	$_____
Drying	_____	Bu	x	$_____	x	$_____
TOTAL OTHER EXPENSES		Enter on Page 2, Line 4				**$**_____

(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.

		Labor Used		Fuel Used		Equipment Repair Costs Per Time Over				Equipment Fixed Costs Per Time Over		
						Equipment Age				Equipment Age		
Field Operation	**Times Over**	**Per Time Over**	**Total**	**Per Time Over**	**Total**	**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	_____	$6.00	$2.00	$_____
Heavy Disk	_____	10		1.00	_____	.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	_____	10	_____	.50	_____	.50	.96	1.10	_____	1.65	.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	_____	8	_____	.20	_____	.48	.70	1.40	_____	1.30	.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 _____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
TOTALS		min	_____		_____				$_____			$_____
		÷60= ____hrs.										
ENTER ON:		**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.