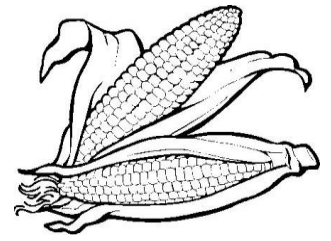


Georgia High Yield Corn and Production Efficiency Program



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 | \$ _____ | If owed funds are used, this is the opportunity cost for money. |
| \$ (_____) @ _____ % - (for 6 months)
Sums of lines 1-9 Interest Rate | | |

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	\$ _____
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TOTAL COSTS (Variable plus Fixed Costs)	
Per Acre -----	\$ _____
Per Bushel: (Total Cost \$ _____ ÷ Bushels Yield _____)	= \$ _____

Prepared by: Nathan Smith, Extension Agronomist

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(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 O ₅)	_____	Lb.	x _____	=	_____
Potash (K ₂ O)	_____	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	\$ _____
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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	\$ _____
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Other Expenses

Crop Insurance	_____	Acre	x \$ _____	x	\$ _____
Drying	_____	Bu	x \$ _____	x	\$ _____

TOTAL OTHER EXPENSES	Enter on Page 2, Line 4	\$ _____
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(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	_____	\$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.