

**CORN, IRRIGATED
SOUTH GEORGIA, 2007**

ESTIMATED COSTS AND RETURNS

Expected Yield

185 Bushels

YIELD: YOUR FARM _____

VARIABLE COSTS	Unit	Number of		\$/Unit	Cost/Acre	\$/Bushels	Your Farm
		Units					
Seed	Thous.	30.00	\$	1.40	\$ 42.00	\$ 0.23	_____
Lime	Tons	0.50	\$	28.00	\$ 14.00	\$ 0.08	_____
Fertilizer							
Nitrogen	Lbs	225.00	\$	0.43	\$ 96.75	\$ 0.52	_____
Phosphate (P2O5)	Lbs	90.00	\$	0.31	\$ 27.90	\$ 0.15	_____
Potash (K2O)	Lbs	125.00	\$	0.23	\$ 28.75	\$ 0.16	_____
Weed Control	Acre	1.00	\$	24.82	\$ 24.82	\$ 0.13	_____
Insect Control	Acre	1.00	\$	7.00	\$ 7.00	\$ 0.04	_____
<i>Machinery: Preharvest</i>							
Fuel	Gallon	3.98	\$	2.25	\$ 8.95	\$ 0.05	_____
Repairs & Maintenance	Acre	1.00	\$	6.59	\$ 6.59	\$ 0.04	_____
<i>Machinery: Harvest</i>							
Fuel	Gallon	2.65	\$	2.25	\$ 5.96	\$ 0.03	_____
Repairs & Maintenance	Acre	1.00	\$	3.66	\$ 3.66	\$ 0.02	_____
Irrigation*	Inch	8.00	\$	10.50	\$ 84.00	\$ 0.45	_____
Labor	Hrs	0.93	\$	10.00	\$ 9.26	\$ 0.05	_____
Crop Insurance	Acre	1.00	\$	9.00	\$ 9.00	\$ 0.05	_____
Land Rental	Acre	1.00	\$	-	\$ -	\$ -	_____
Interest on Operating capital	Percent	\$ 184.32		8.00%	\$ 14.75	\$ 0.08	_____
Drying - 8 points	Bushel	203.44	\$	0.28	\$ 56.96	\$ 0.31	_____
Total Variable Costs					\$ 440.35	\$ 2.38	

Fixed Costs:

Machinery: Depreciation, Taxes, Insurance, and Housing							
Preharvest	Acre	1.00	\$	17.93	\$ 17.93	\$ 0.10	_____
Harvest	Acre	1.00	\$	23.66	\$ 23.66	\$ 0.13	_____
General Overhead	% of VC	\$ 440.35		5.00%	\$ 22.02	\$ 0.12	_____
Management	% of VC	\$ 440.35		5.00%	\$ 22.02	\$ 0.12	_____
Irrigation	Acre	1.00		90.00	\$ 90.00	\$ 0.49	_____
Owned Land Costs; Taxes, Cash Payment, Etc.	Acre	1.00	\$	-	\$ -	\$ -	_____
Other _____							
Total Fixed Costs					\$ 175.63	\$ 0.95	

TOTAL COSTS AND PROFIT GOAL

Total Costs Excluding Land	\$ 615.98	\$ 3.33
**** YOUR PROFIT GOAL ****	\$ _____/Bu.	
\$\$-PRICE NEEDED FOR PROFIT-\$\$	\$ _____/Bu.	

*Irrigation application assumes use of diesel power unit. Electric power unit is estimated to be 60% of the cost of \$2.25 per gal diesel.

Sensitivity Analysis of CORN, IRRIGATED

NET RETURNS ABOVE VARIABLE COSTS PER ACRE						
Varying Prices and Yield (Bushels)						
		-25%	-10%	Average	+10%	+25%
		138.75	166.5	185	203.5	231.25
\$	3.00	\$ (24.10)	\$ 59.15	\$ 114.65	\$ 170.15	\$ 253.40
\$	3.25	\$ 10.59	\$ 100.77	\$ 160.90	\$ 221.02	\$ 311.21
\$	3.50	\$ 45.27	\$ 142.40	\$ 207.15	\$ 271.90	\$ 369.02
\$	3.75	\$ 79.96	\$ 184.02	\$ 253.40	\$ 322.77	\$ 426.84
\$	4.00	\$ 114.65	\$ 225.65	\$ 299.65	\$ 373.65	\$ 484.65

ESTIMATED LABOR AND MACHINERY COSTS PER ACRE

PREHARVEST OPERATIONS							
Operation	Acres/Hour	Number Times Over	Labor Use (Hr.)	Fuel Use (Gal./Ac)	Machinery Repairs (\$/Ac)	Fixed Costs (\$/Ac)	
Heavy Disk27' with Tractor (180-199 hp)-MFWD 190	13.214	1.00	0.08	0.74	1.41	4.08	
Disk Harrow32' with Tractor (180-199 hp)-MFWD 190	16.291	1.00	0.06	0.60	1.08	3.14	
Disk Bed (Hipper)6R-36 with Tractor (180-199 hp)-MFWD 190	9.600	1.00	0.10	1.02	1.17	3.61	
Plant - Rigid6R-36 with Tractor (120-139 hp)-2WD 130	9.573	1.00	0.10	0.70	1.25	3.51	
Fert Appl (Liquid)6R-36 with Tractor (120-139 hp)-2WD 130	9.164	1.00	0.11	0.73	1.44	3.01	
Spray (Broadcast)60' with Tractor (120-139 hp)-2WD 130	35.455	1.00	0.03	0.19	0.24	0.59	
Total Preharvest Fuel, Repairs, Fixed Costs, & Labor			0.483	\$ 3.98	\$ 6.59	\$ 17.93	

HARVEST OPERATIONS							
Operation	Acres/Hour	Number Times Over	Labor Use (Hr.)	Fuel Use (Gal./Ac)	Machinery Repairs (\$/Ac)	Fixed Costs (\$/Ac)	
Header - Corn6R 36" with Combine (200-249 hp)-240hp	6.109	1.000	0.164	2.022	\$ 3.10	\$ 21.32	
Corn Grain Cart 8R36500 bu with Tractor (120-139 hp)-2WD 130	10.642	1.000	0.094	0.629	\$ 0.56	\$ 2.34	
Total Harvest Fuel, Repairs, Fixed Costs, and Labor			0.258	\$ 2.65	\$ 3.66	\$ 23.66	

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Acknowledgements: The authors gratefully acknowledge the contributions of Dewey Lee, Steve L. Brown, David Buntin, Eric Prostko and Georgia County Extension Agents in the construction of the 2007 corn budgets.

