

**CORN, STRIP TILLAGE, IRRIGATED
SOUTH GEORGIA, 2009**

ESTIMATED COSTS AND RETURNS

Expected Yield

185 Bushels

YIELD: YOUR FARM _____

Variable Costs:	Unit	Number of Units	\$/Unit	Cost/Acre	\$/Bushels	Your Farm
Seed	Thous.	30.00	\$ 2.81	\$ 84.38	\$ 0.46	_____
Cover Crop Seed	Bushel	1.50	\$ 11.00	\$ 16.50	\$ 0.09	_____
Lime	Tons	0.50	\$ 43.00	\$ 21.50	\$ 0.12	_____
Fertilizer						
Nitrogen	Lbs	225.00	\$ 0.82	\$ 184.50	\$ 1.00	_____
Phosphate (P2O5)	Lbs	90.00	\$ 0.74	\$ 66.60	\$ 0.36	_____
Potash (K2O)	Lbs	125.00	\$ 0.80	\$ 100.00	\$ 0.54	_____
Weed Control	Acre	1.00	\$ 40.11	\$ 40.11	\$ 0.22	_____
Insect Control	Acre	1.00	\$ -	\$ -	\$ -	_____
<i>Machinery: Preharvest*</i>						
Fuel	Gallon	3.05	\$ 2.85	\$ 8.69	\$ 0.05	_____
Repairs & Maintenance	Acre	1.00	\$ 6.04	\$ 6.04	\$ 0.03	_____
<i>Machinery: Harvest</i>						
Fuel	Gallon	2.65	\$ 2.85	\$ 7.55	\$ 0.04	_____
Repairs & Maintenance	Acre	1.00	\$ 3.66	\$ 3.66	\$ 0.02	_____
Irrigation**	Inch	7.00	\$ 9.55	\$ 66.85	\$ 0.36	_____
Labor	Hrs	0.77	\$ 11.00	\$ 8.49	\$ 0.05	_____
Crop Insurance	Acre	1.00	\$ 20.00	\$ 20.00	\$ 0.11	_____
Land Rental	Acre	1.00	\$ -	\$ -	\$ -	_____
Interest on Operating capital	Percent	\$ 317.43	7.50%	\$ 23.81	\$ 0.13	_____
Drying - 8 points	Bushel	203.02	\$ 0.28	\$ 56.85	\$ 0.31	_____
Total Variable Costs				\$ 715.52	\$ 3.87	

Fixed Costs:

Machinery: Depreciation, Taxes, Insurance, and Housing						
Preharvest*	Acre	1.00	\$ 16.65	\$ 16.65	\$ 0.09	_____
Harvest	Acre	1.00	\$ 23.75	\$ 23.75	\$ 0.13	_____
General Overhead	% of VC	\$ 715.52	5.00%	\$ 35.78	\$ 0.19	_____
Management	% of VC	\$ 715.52	5.00%	\$ 35.78	\$ 0.19	_____
Irrigation	Acre	1.00	\$ 100.00	\$ 100.00	\$ 0.54	_____
Owned Land Costs; Taxes, Cash Payment, Etc.	Acre	1.00	\$ -	\$ -	\$ -	_____
Other _____						
Total Fixed Costs				\$ 211.95	\$ 1.15	

TOTAL COSTS AND PROFIT GOAL

Total Costs Excluding Land	\$ 927.47	\$ 5.01
**** YOUR PROFIT GOAL ****	\$ _____/Bu.	
\$\$-PRICE NEEDED FOR PROFIT-\$\$	\$ _____/Bu.	

* Rip-strip and plant in one pass. Performing rip, strip and plant as separate operations increases preharvest fuel use by 0.413 ga (\$1.18 per acre) and repairs & maintenance costs by \$0.44 per acre. Fixed costs for preharvest machinery would be increased by \$0.99 per acre.

**Average of diesel and electric irrigation application costs. Electric is estimated to be \$6/application and diesel is estimated to be \$13.10/application at \$2.85/gallon diesel.

Sensitivity Analysis of CORN, STRIP TILLAGE, IRRIGATED

NET RETURNS ABOVE VARIABLE COSTS PER ACRE					
Varying Prices and Yield (Bushels)					
Bu/Acre	-25%	-10%	Average	+10%	+25%
	138.75	166.5	185	203.5	231.25
\$3.00	\$ (299.27)	\$ (216.02)	\$ (160.52)	\$ (105.02)	\$ (21.77)
\$3.25	\$ (264.58)	\$ (174.39)	\$ (114.27)	\$ (54.14)	\$ 36.04
\$3.50	\$ (229.89)	\$ (132.77)	\$ (68.02)	\$ (3.27)	\$ 93.86
\$3.75	\$ (195.21)	\$ (91.14)	\$ (21.77)	\$ 47.61	\$ 151.67
\$4.00	\$ (160.52)	\$ (49.52)	\$ 24.48	\$ 98.48	\$ 209.48

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)
Spin Spreader5 ton with Tractor (120-139 hp)-2WD 130	23.758	1.00	0.04	0.28	0.50	1.42
Disk Harrow32' with Tractor (180-199 hp)-MFWD 190	16.291	1.00	0.06	0.60	1.30	3.78
Spray (Broadcast)60' with Tractor (120-139 hp)-2WD 130	35.455	1.00	0.03	0.19	0.25	0.61
ST Plant-Rigid6R-36 with Tractor (180-199 hp)-MFWD 190	6.873	1.00	0.15	1.42	2.80	8.38
Fert Appl (Liquid)6R-36 with Tractor (120-139 hp)-2WD 130	18.327	1.00	0.05	0.37	0.93	1.84
Spray (Broadcast)60' with Tractor (120-139 hp)-2WD 130	35.455	1.00	0.03	0.19	0.25	0.61
Total Preharvest Fuel, Repairs, Fixed Costs, & Labor			0.360	3.05	\$ 6.04	\$ 16.65

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	\$ 3.06	\$ 21.20
Corn Grain Cart 8R36500 bu with Tractor (120-139 hp)-2WD 130	10.642	1.000	0.094	0.629	\$ 0.60	\$ 2.55
Total Harvest Fuel, Repairs, Fixed Costs, and Labor			0.258	\$ 2.65	\$ 3.66	\$ 23.75

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