

**CORN, STRIP TILLAGE, NON-IRRIGATED  
SOUTH GEORGIA, 2010**

**ESTIMATED COSTS AND RETURNS**

Expected Yield

85 Bushels

YIELD: YOUR FARM \_\_\_\_\_

<b>Variable Costs:</b>	<b>Unit</b>	<b>Number of Units</b>	<b>\$/Unit</b>	<b>Cost/Acre</b>	<b>\$/Bushels</b>	<b>Your Farm</b>
Seed	Thous.	20.00	\$ 2.65	\$ 53.00	\$ 0.62	_____
Cover Crop Seed	Bushel	1.50	\$ 11.00	\$ 16.50	\$ 0.19	_____
Lime	Tons	0.25	\$ 33.30	\$ 8.33	\$ 0.10	_____
<b>Fertilizer</b>						
Nitrogen	Lbs	100.00	\$ 0.45	\$ 45.00	\$ 0.53	_____
Phosphate (P2O5)	Lbs	40.00	\$ 0.25	\$ 10.00	\$ 0.12	_____
Potash (K2O)	Lbs	60.00	\$ 0.50	\$ 30.00	\$ 0.35	_____
Weed Control	Acre	1.00	\$ 38.05	\$ 38.05	\$ 0.45	_____
Insect Control	Acre	1.00	\$ -	\$ -	\$ -	_____
<i>Machinery: Preharvest*</i>						
Fuel	Gallon	3.41	\$ 2.50	\$ 8.53	\$ 0.10	_____
Repairs & Maintenance	Acre	1.00	\$ 6.60	\$ 6.60	\$ 0.08	_____
<i>Machinery: Harvest</i>						
Fuel	Gallon	2.65	\$ 2.50	\$ 6.63	\$ 0.08	_____
Repairs & Maintenance	Acre	1.00	\$ 4.13	\$ 4.13	\$ 0.05	_____
Labor	Hrs	0.84	\$ 11.00	\$ 9.24	\$ 0.11	_____
Crop Insurance	Acre	1.00	\$ 13.00	\$ 13.00	\$ 0.15	_____
Land Rental	Acre	1.00	\$ -	\$ -	\$ -	_____
Interest on Operating capital	Percent	\$ 124.51	7.25%	\$ 9.03	\$ 0.11	_____
Drying - 8 points	Bushel	93.28	\$ 0.28	\$ 26.12	\$ 0.31	_____
<b>Total Variable Costs</b>				<b>\$ 284.16</b>	<b>\$ 3.34</b>	
<b>Fixed Costs:</b>						
<i>Machinery: Depreciation, Taxes, Insurance, and Housing</i>						
Preharvest*	Acre	1.00	\$ 17.93	\$ 17.93	\$ 0.21	_____
Harvest	Acre	1.00	\$ 26.73	\$ 26.73	\$ 0.31	_____
General Overhead	% of VC	\$ 284.16	5.00%	\$ 14.21	\$ 0.17	_____
Management	% of VC	\$ 284.16	5.00%	\$ 14.21	\$ 0.17	_____
Owned Land Costs; Taxes, Cash Payment, Etc.	Acre	1.00	\$ -	\$ -	\$ -	_____
Other _____						_____
<b>Total Fixed Costs</b>				<b>\$ 73.07</b>	<b>\$ 0.86</b>	
<b>TOTAL COSTS AND PROFIT GOAL</b>						
<b>Total Costs Excluding Land</b>				<b>\$ 357.23</b>	<b>\$ 4.20</b>	
**** 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 gal (\$1.03 per acre) and repairs & maintenance costs by \$0.44 per acre. Fixed costs for preharvest machinery would be increased by \$0.99 per acre.

**Sensitivity Analysis of CORN, STRIP TILLAGE, NON-IRRIGATED**

NET RETURNS ABOVE VARIABLE COSTS PER ACRE					
Varying Prices and Yield (Bushels)					
Bu/Acre	-25%	-10%	Average	+10%	+25%
	63.75	76.5	85	93.5	106.25
\$3.00	\$ (92.91)	\$ (54.66)	\$ (29.16)	\$ (3.66)	\$ 34.59
\$3.25	\$ (76.97)	\$ (35.53)	\$ (7.91)	\$ 19.72	\$ 61.16
\$3.50	\$ (61.03)	\$ (16.41)	\$ 13.34	\$ 43.09	\$ 87.72
\$3.75	\$ (45.09)	\$ 2.72	\$ 34.59	\$ 66.47	\$ 114.28
\$4.00	\$ (29.16)	\$ 21.84	\$ 55.84	\$ 89.84	\$ 140.84

**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 Spreader 5 ton with Tractor (120-139 hp) 2WD 130	23.758	1.00	0.04	0.28	0.50	1.42
Disk Harrow 32' 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-Rigid 6R-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	9.164	1.00	0.11	0.73	1.49	3.13
Spray (Broadcast) 60' with Tractor (120-139 hp)-2WD 130	35.455	1.00	0.03	0.19	0.25	0.61
<b>Total Preharvest Fuel, Repairs, Fixed Costs, &amp; Labor</b>			<b>0.415</b>	<b>3.413</b>	<b>\$ 6.60</b>	<b>\$ 17.93</b>

HARVEST OPERATIONS						
Operation	Acres/Hour	Number Times Over	Labor Use (Hr.)	Fuel Use (Gal./Ac)	Machinery Repairs (\$/Ac)	Fixed Costs (\$/Ac)
Header - Corn 6R 36" with Combine (200-249 hp)-240hp	6.109	1.000	0.164	2.022	\$ 3.53	\$ 24.18
Corn Grain Cart 8R36500 bu with Tractor (120-139 hp)-2WD 130	10.642	1.000	0.094	0.629	\$ 0.60	\$ 2.55
<b>Total Harvest Fuel, Repairs, Fixed Costs, and Labor</b>			<b>0.258</b>	<b>2.65</b>	<b>\$ 4.13</b>	<b>\$ 26.73</b>

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