

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

**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	\$ 2.50	\$ 50.00	\$ 0.59	_____
Cover Crop Seed	Bushel	1.50	\$ 11.00	\$ 16.50	\$ 0.19	_____
Lime	Tons	0.25	\$ 40.00	\$ 10.00	\$ 0.12	_____
Fertilizer						
Nitrogen	Lbs	100.00	\$ 0.60	\$ 60.00	\$ 0.71	_____
Phosphate (P2O5)	Lbs	40.00	\$ 0.30	\$ 12.00	\$ 0.14	_____
Potash (K2O)	Lbs	60.00	\$ 0.70	\$ 42.00	\$ 0.49	_____
Weed Control	Acre	1.00	\$ 40.11	\$ 40.11	\$ 0.47	_____
Insect Control	Acre	1.00	\$ -	\$ -	\$ -	_____
<i>Machinery: Preharvest*</i>						
Fuel	Gallon	3.05	\$ 2.25	\$ 6.86	\$ 0.08	_____
Repairs & Maintenance	Acre	1.00	\$ 6.04	\$ 6.04	\$ 0.07	_____
<i>Machinery: Harvest</i>						
Fuel	Gallon	2.65	\$ 2.25	\$ 5.96	\$ 0.07	_____
Repairs & Maintenance	Acre	1.00	\$ 3.66	\$ 3.66	\$ 0.04	_____
Labor	Hrs	0.77	\$ 11.00	\$ 8.49	\$ 0.10	_____
Crop Insurance	Acre	1.00	\$ 13.50	\$ 13.50	\$ 0.16	_____
Land Rental	Acre	1.00	\$ -	\$ -	\$ -	_____
Interest on Operating capital	Percent	\$ 137.56	7.50%	\$ 10.32	\$ 0.12	_____
Drying - 8 points	Bushel	93.28	\$ 0.28	\$ 26.12	\$ 0.31	_____
<b>Total Variable Costs</b>				<b>\$ 311.56</b>	<b>\$ 3.67</b>	
<b>Fixed Costs:</b>						
<i>Machinery: Depreciation, Taxes, Insurance, and Housing</i>						
Preharvest*	Acre	1.00	\$ 16.65	\$ 16.65	\$ 0.20	_____
Harvest	Acre	1.00	\$ 23.75	\$ 23.75	\$ 0.28	_____
General Overhead	% of VC	\$ 311.56	5.00%	\$ 15.58	\$ 0.18	_____
Management	% of VC	\$ 311.56	5.00%	\$ 15.58	\$ 0.18	_____
Owned Land Costs; Taxes, Cash Payment, Etc.	Acre	1.00	\$ -	\$ -	\$ -	_____
Other _____						_____
<b>Total Fixed Costs</b>				<b>\$ 71.56</b>	<b>\$ 0.84</b>	
<b>TOTAL COSTS AND PROFIT GOAL</b>						
<b>Total Costs Excluding Land</b>				<b>\$ 383.11</b>	<b>\$ 4.51</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 (\$1.18 per acre) and repairs & maintenance costs by \$0.44 per acre. Fixed costs for preharvest machinery would be increased by \$0.99 per acre.

**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	\$ (120.31)	\$ (82.06)	\$ (56.56)	\$ (31.06)	\$ 7.19
\$3.25	\$ (104.37)	\$ (62.93)	\$ (35.31)	\$ (7.68)	\$ 33.75
\$3.50	\$ (88.43)	\$ (43.81)	\$ (14.06)	\$ 15.69	\$ 60.32
\$3.75	\$ (72.50)	\$ (24.68)	\$ 7.19	\$ 39.07	\$ 86.88
\$4.00	\$ (56.56)	\$ (5.56)	\$ 28.44	\$ 62.44	\$ 113.44

**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	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
<b>Total Preharvest Fuel, Repairs, Fixed Costs, &amp; Labor</b>			<b>0.360</b>	<b>3.048</b>	<b>\$ 6.04</b>	<b>\$ 16.65</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	\$ 3.06	\$ 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
<b>Total Harvest Fuel, Repairs, Fixed Costs, and Labor</b>			<b>0.258</b>	<b>2.65</b>	<b>\$ 3.66</b>	<b>\$ 23.75</b>

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