

**Corn, Non Irrigated, Strip Tillage
South Georgia, 2011**

Estimated Costs and Returns

Expected Yield: **85 Bushel**

Yield on your farm: _____

Variable Costs	Unit	Amount	\$/Unit	Cost/Acre	\$/Bushel	Your Farm
Seed	thousand	20	\$ 2.65	\$ 53.00	\$ 0.62	_____
Cover Crop Seed	bushel	1.5	\$ 16.50	\$ 24.75	\$ 0.29	_____
Lime	ton	0.25	\$ 32.00	\$ 8.00	\$ 0.09	_____
Fertilizer						
<i>Nitrogen</i>	pounds	100	\$ 0.60	\$ 60.00	\$ 0.71	_____
<i>Phosphate</i>	pounds	40	\$ 0.45	\$ 18.00	\$ 0.21	_____
<i>Potash</i>	pounds	60	\$ 0.50	\$ 30.00	\$ 0.35	_____
Weed Control	acre	1	\$ 36.60	\$ 36.60	\$ 0.43	_____
Insect Control	acre	1	\$ -	\$ -	\$ -	_____
Disease Control	acre	1	\$ -	\$ -	\$ -	_____
Preharvest Machinery ^a						
<i>Fuel</i>	gallon	3.4	\$ 2.85	\$ 9.73	\$ 0.11	_____
<i>Repairs and Maintenance</i>	acre	1	\$ 6.73	\$ 6.73	\$ 0.08	_____
Harvest Machinery						
<i>Fuel</i>	gallon	2.4	\$ 2.85	\$ 6.79	\$ 0.08	_____
<i>Repairs and Maintenance</i>	acre	1	\$ 5.55	\$ 5.55	\$ 0.07	_____
Labor	hours	0.8	\$ 11.25	\$ 9.14	\$ 0.11	_____
Crop Insurance ^b	acre	1	\$ 18.50	\$ 18.50	\$ 0.22	_____
Land Rent	acre	1	\$ -	\$ -	\$ -	_____
Interest on Operating Capital	percent	\$143.40	6.5%	\$ 9.32	\$ 0.11	_____
Drying - 8 points	bushel	93	\$ 0.28	\$ 26.12	\$ 0.31	_____
Total Variable Costs:				\$ 322.23	\$ 3.79	
Fixed Costs						
Machinery Depreciation, Taxes, Insurance and Housing						
<i>Preharvest Machinery</i> ^a	acre	1	\$ 18.04	\$ 18.04	\$ 0.21	_____
<i>Harvest Machinery</i>	acre	1	\$ 25.36	\$ 25.36	\$ 0.30	_____
General Overhead	% of VC	\$322.23	5%	\$ 16.11	\$ 0.19	_____
Management	% of VC	\$322.23	5%	\$ 16.11	\$ 0.19	_____
Owned Land Cost, Taxes, Cash Payment, etc.	acre	1	\$ -	\$ -	\$ -	_____
Other _____	acre	1	\$ -	\$ -	\$ -	_____
Total Fixed Costs				\$ 75.62	\$ 0.89	
Total Costs Excluding Land				\$ 397.85	\$ 4.68	
Your Profit Goal				\$ _____	/Bushel	
Price Needed for Profit				\$ _____	/Bushel	

^a Rip-strip and plant in one pass. Performing rip-strip and plant as separate operations increases preharvest fuel use by 0.6 gal (\$1.71/ac), labor costs by \$0.77/ac, and repairs by \$0.73/ac. Fixed costs would increase by \$2.10/ac.

^b Assumes Yield Protection at 70% coverage. Revenue Protection at 70% coverage adds \$4-9/ac.

Sensitivity Analysis of Corn, Non Irrigated, Strip Tillage

Net Returns Above Variable Costs Per Acre					
Varying Prices and Yields (Bushel)					
	-25%	-10%	Expected	+10%	+25%
Price \ Bushel/Acre	64	77	85	94	106
\$3.50	-\$99.10	-\$54.48	-\$24.73	\$5.02	\$49.65
\$4.00	-\$67.23	-\$16.23	\$17.77	\$51.77	\$102.77
\$4.50	-\$35.35	\$22.02	\$60.27	\$98.52	\$155.90
\$5.00	-\$3.48	\$60.27	\$102.77	\$145.27	\$209.02
\$5.50	\$28.40	\$98.52	\$145.27	\$192.02	\$262.15

Estimated Labor and Machinery Costs per Acre

Preharvest Operations

Operation	Acres/ Hour	Number of Times Over	Labor Use ^c (hrs/ac)	Fuel Use (gal/ac)	Repairs (\$/ac)	Fixed Costs (\$/ac)
Spin Spreader 5 ton with Tractor (120-139 hp) 2WD 130	23.8	1	0.05	0.28	\$ 0.51	\$ 1.44
Disk Harrow 32' with Tractor (180-199 hp) MFWD 190	16.3	1	0.08	0.60	\$ 1.32	\$ 3.84
Spray (Broadcast) 60' with Tractor (120-139 hp) 2WD 130	35.5	1	0.04	0.19	\$ 0.30	\$ 0.71
ST Plant Rigid 6R-36 with Tractor (180-199 hp) MFWD 190	6.9	1	0.18	1.42	\$ 2.60	\$ 7.77
Fert Appl (Liquid) 6R-36 with Tractor (120-139 hp) 2WD 130	9.2	1	0.14	0.73	\$ 1.71	\$ 3.56
Spray (Broadcast) 60' with Tractor (120-139 hp) 2WD 130	35.5	1	0.04	0.19	\$ 0.30	\$ 0.71
Total Preharvest Values			0.52	3.41	\$ 6.73	\$ 18.04

Harvest Operations

Operation	Acres/ Hour	Number of Times Over	Labor Use ^c (hrs/ac)	Fuel Use (gal/ac)	Repairs (\$/ac)	Fixed Costs (\$/ac)
Header - Corn 6R-36 with Combine (200-249 hp) 240 hp	7.0	1	0.18	1.75	\$ 4.44	\$ 22.35
Grain Cart Corn 500 bu with Tractor (120-139 hp) 2WD 130	10.6	1	0.12	0.63	\$ 1.12	\$ 3.01
Total Harvest Values			0.29	2.38	\$ 5.55	\$ 25.36

^c Includes unallocated labor factor of 0.25. Unallocated labor factor is percentage allowance for additional labor required to move equipment and hook/unhook implements, etc.

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