Non-Irrigated Corn, Strip Tillage South Georgia, 2013

Estimated Costs and Returns

Expected Yield: 85 bushel Your Yield _____

Variable Costs	Unit	Amount	\$ 5/Unit	Co	st/Acre	\$/	bushel	Your Farm
Seed	thousand	20	\$ 2.50	\$	50.00	\$	0.59	
Cover Crop Seed	bushel	1.5	\$ 15.00	\$	22.50	\$	0.26	
Lime	ton	0.25	\$ 42.00	\$	10.50	\$	0.12	
Fertilizer								
Nitrogen	pounds	100	\$ 0.70	\$	70.00	\$	0.82	
Phosphate	pounds	40	\$ 0.55	\$	22.00	\$	0.26	
Potash	pounds	60	\$ 0.50	\$	30.00	\$	0.35	
Weed Control	acre	1	\$ 18.50	\$	18.50	\$	0.22	
Insect Control	acre	1	\$ -	\$	-	\$	- '	
Disease Control	acre	1	\$ -	\$	-	\$	-	
Preharvest Machinery *							•	
Fuel .	gallon	3.4	\$ 3.75	\$	12.80	\$	0.15	
Repairs and Maintenance	acre	1	\$ 7.74	\$	7.74	\$	0.09	
Harvest Machinery							•	
Fuel	gallon	2.5	\$ 3.75	\$	9.49	\$	0.11	
Repairs and Maintenance	acre	1	\$ 6.77	\$	6.77	\$	0.08	
Labor	hours	0.8	\$ 12.00	\$	9.94	\$	0.12	
Crop Insurance	acre	1	\$ 28.00	\$	28.00	\$	0.33	
Land Rent	acre	1	\$ -	\$	-	\$	-	
Interest on Operating Capital	percent	\$ 149.12	6.5%	\$	9.69	\$	0.11	
Drying - 8 Points	bushel	93	\$ 0.28	\$	26.12	\$	0.31	
Total Variable Costs:				\$ 334.05		\$	3.93	
Fixed Costs								
Machinery Depreciation, Taxes, Insurance and	Housing							
Preharvest Machinery *	acre	1	\$ 20.83	\$	20.83	\$	0.25	
Harvest Machinery	acre	1	\$ 32.22	\$	32.22	\$	0.38	
General Overhead	% of VC	\$ 334.05	5%	\$	16.70	\$	0.20	
Management	% of VC	\$ 334.05	5%	\$	16.70	\$	0.20	
Owned Land Cost, Taxes, Cash Payment, etc.	acre	1	\$ _	\$	_	\$	_	
Other	acre		\$ _	\$	-	\$		
Total Fixed Costs				\$	86.45	\$	1.02	
Total Costs Excluding Land				\$	420.51	\$	4.95	
Your Profit Goal			\$				ushel	
Price Needed for Profit			\$				ushel	

^{*} Rip, strip and plant in one pass. Performing rip, strip and plant as separate operations increases preharvest fuel use by 0.6 gal (\$2.13/ac), labor costs by \$0.77/ac, and repairs by \$0.80/ac. Fixed costs would increase by \$2.30/ac.

Developed by Amanda Smith and Nathan Smith. Data may be modified by the user to more closely reflect their operation. UGA estimates are available online at http://www.ces.uga.edu/Agriculture/agecon/agecon.html.

Sensitivity Analysis of Non-Irrigated Corn, Strip Tillage

Net Returns Above Variable Costs Per Acre Varying Prices and Yields (bushel) -10% +10% -25% Expected +25% Price \ bushel/Acre 64 77 85 94 106 \$5.00 -\$15.30 \$48.45 \$90.95 \$133.45 \$197.20 \$16.57 \$86.70 \$133.45 \$180.20 \$250.32 \$5.50 \$303.45 \$6.00 \$48.45 \$124.95 \$175.95 \$226.95 \$6.50 \$80.32 \$163.20 \$218.45 \$273.70 \$356.57 \$7.00 \$112.20 \$201.45 \$260.95 \$320.45 \$409.70

Estimated Labor and Machinery Costs per Acre Preharvest Operations

		Number	Labor					
		of Times	Use**	Fuel Use	Repairs (\$/ac)		Fixed Costs (\$/ac)	
Operation	Acres/Hour	Over	(hrs/ac)	(gal/ac)				
Spin Spreader 5 ton with Tractor (120-139 hp) 2WD 130	23.8	1	0.05	0.28	\$	0.59	\$	1.67
Disk Harrow 32' with Tractor (180-199 hp) MFWD 190	16.3	1	0.08	0.60	\$	1.48	\$	4.29
Spray (Broadcast) 60' with Tractor (120-139 hp) 2WD 130	35.5	1	0.04	0.19	\$	0.36	\$	0.86
ST Plant Rigid 6R-36 with Tractor (180-199 hp) MFWD 190	6.9	1	0.18	1.42	\$	3.03	\$	9.07
Fert Appl (Liquid) 6R-36 with Tractor (120-139 hp) 2WD 130	9.2	1	0.14	0.73	\$	1.92	\$	4.08
Spray (Broadcast) 60' with Tractor (120-139 hp) 2WD 130	35.5	1	0.04	0.19	\$	0.36	\$	0.86
Total Preharvest Values			0.52	3.41	\$	7.74	\$	20.83

Harvest Operations

Operation	Acres/Hour	Number of Times Over	Labor Use** (hrs/ac)	Fuel Use (gal/ac)	Repairs (\$/ac)		Fixed Costs (\$/ac)	
Header - Corn 6R-36 with Combine (200-249 hp) 240 hp	6.5	1	0.19	1.90	\$	5.49	\$	28.77
Grain Cart Corn 500 bu with Tractor (120-139 hp) 2WD 130	10.6	1	0.12	0.63	\$	1.28	\$	3.46
Total Harvest Values			0.31	2.53	\$	6.77	\$	32.22

^{**} 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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