Corn, Non Irrigated 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 thousand 20 \$ \$ Seed 2.65 53.00 \$ 0.62 0.25 \$ \$ Lime 32.00 8.00 \$ 0.09 ton Fertilizer 100 \$ Nitrogen pounds 0.60 \$ 60.00 \$ 0.71 Phosphate 40 \$ 0.45 \$ 18.00 \$ 0.21 pounds Potash pounds 60 \$ 0.50 \$ 30.00 \$ 0.35 1 \$ \$ \$ Weed Control acre 31.60 31.60 0.37 \$ **Insect Control** acre 1 \$ \$ \$ 1 \$ \$ **Disease Control** acre Preharvest Machinery 4.7 \$ Fuel gallon 2.85 \$ 13.45 \$ 0.16 \$ Repairs and Maintenance 1 \$ 9.02 9.02 \$ acre 0.11 **Harvest Machinery** 2.4 \$ Fuel gallon 2.85 \$ 6.79 \$ 0.08 1 \$ 5.55 \$ 5.55 \$ Repairs and Maintenance acre 0.07 Labor 1.0 \$ 11.25 \$ \$ 0.13 hours 11.18 Crop Insurance ^a 1 \$ \$ 18.50 18.50 0.22 acre Land Rent acre 1 \$ \$ Interest on Operating Capital \$132.54 6.5% \$ 8.62 \$ 0.10 percent \$ Drying - 8 points bushel 93 \$ 0.28 26.12 0.31 **Total Variable Costs:** \$ 299.82 3.53 **Fixed Costs** Machinery Depreciation, Taxes, Insurance and Housing **Preharvest Machinery** 1 \$ \$ \$ 0.29 acre 24.70 24.70 \$ Harvest Machinery acre 1 \$ 25.36 25.36 \$ 0.30 **General Overhead** % of VC \$299.82 5% \$ 14.99 \$ 0.18 14.99 \$299.82 5% \$ \$ Management % of VC 0.18 Owned Land Cost, Taxes, Cash Payment, etc. acre 1 \$ \$

Total Costs Excluding Land	\$ 379.80	5 \$ 4.47
Your Profit Goal	\$	/Bushel
Price Needed for Profit	\$	/Bushel

1 \$

\$

80.04

acre

0.94

Other

Total Fixed Costs

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

Sensitivity Analysis of Corn, Non Irrigated

Net Returns Above Variable Costs Per Acre	,
Varing Prices and Violds (Pushel)	

Varying Prices and Yields (Bushel)									
	-25%	-10%	Expected	+10%	+25%				
Price \ Bushel/Acre	64	77	85	94	106				
\$3.50	-\$76.70	-\$32.07	-\$2.32	\$27.43	\$72.05				
\$4.00	-\$44.82	\$6.18	\$40.18	\$74.18	\$125.18				
\$4.50	-\$12.95	\$44.43	\$82.68	\$120.93	\$178.30				
\$5.00	\$18.93	\$82.68	\$125.18	\$167.68	\$231.43				
\$5.50	\$50.80	\$120.93	\$167.68	\$214.43	\$284.55				

Estimated Labor and Machinery Costs per Acre

Preharvest Operations

·	Number						F	ixed
	Acres/	of Times	Labor Use ^b	Fuel Use	Repairs		Costs	
Operation	Hour	Over (hrs/ac) (gal/ac) (\$/ac)		S/ac)	(\$/ac)			
Heavy Disk 27' with Tractor (180-199 hp) MFWD 190	13.2	2	0.19	1.48	\$	2.89	\$	8.40
Disk Harrow 32' with Tractor (180-199 hp) MFWD 190	16.3	1	0.08	0.60	\$	1.32	\$	3.84
Disk Bed (Hipper) 6R-36 with Tractor (180- 199 hp) MFWD 190	9.6	1	0.13	1.02	\$	1.24	\$	3.83
Plant - Rigid 6R-36 with Tractor (120-139 hp) 2WD 130	9.5	1	0.13	0.70	\$	1.56	\$	4.36
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			0.70	4.72	\$	9.02	\$	24.70

Harvest Operations

	Number					Fixed		
	Acres/	of Times	Labor Use ^b	Fuel Use	Repairs		Costs	
Operation	Hour	Over	(hrs/ac)	(gal/ac)	(\$	S/ac)	(\$/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

^b 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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