

**CORN, IRRIGATED  
SOUTH GEORGIA, 2006**

**ESTIMATED COSTS AND RETURNS**

Expected Yield

185 Bushels

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

VARIABLE COSTS	Unit	Number of Units	\$/Unit	Cost/Acre	\$/Bushels	Your Farm
Seed	Thous.	30.00	\$ 1.25	\$ 37.50	\$ 0.20	_____
Lime	Tons	0.50	\$ 30.00	\$ 15.00	\$ 0.08	_____
Fertilizer						_____
Nitrogen	Lbs	225.00	\$ 0.48	\$ 108.00	\$ 0.58	_____
Phospate (P2O5)	Lbs	90.00	\$ 0.32	\$ 28.80	\$ 0.16	_____
Potash (K2O)	Lbs	125.00	\$ 0.24	\$ 30.00	\$ 0.16	_____
Weed Control	Acre	1.00	\$ 25.19	\$ 25.19	\$ 0.14	_____
Insect Control	Acre	1.00	\$ 6.50	\$ 6.50	\$ 0.04	_____
<i>Machinery: Preharvest</i>						_____
Fuel	Gallon	4.80	\$ 2.25	\$ 10.80	\$ 0.06	_____
Repairs & Maintenance	Acre	1.00	\$ 6.39	\$ 6.39	\$ 0.03	_____
<i>Machinery: Harvest</i>						_____
Fuel	Gallon	3.32	\$ 2.25	\$ 7.48	\$ 0.04	_____
Repairs & Maintenance	Acre	1.00	\$ 8.52	\$ 8.52	\$ 0.05	_____
Irrigation	Inch	8.00	\$ 10.50	\$ 84.00	\$ 0.45	_____
Labor	Hrs	1.15	\$ 9.80	\$ 11.25	\$ 0.06	_____
Crop Insurance	Acre	1.00	\$ 9.00	\$ 9.00	\$ 0.05	_____
Land Rental	Acre	1.00		\$ -	\$ -	_____
Interest on Operating capital	Percent	\$ 194.22	7.50%	\$ 14.57	\$ 0.08	_____
Drying - 8 points	Bushel	205.35	\$ 0.27	\$ 55.44	\$ 0.30	_____
<b>Total Variable Costs</b>				<b>\$ 458.44</b>	<b>\$ 2.48</b>	_____

**Fixed Costs:**

Machinery: Depreciation, Taxes, Insurance,  
and Housing

Preharvest	Acre	1.00	\$ 16.54	\$ 16.54	\$ 0.09	_____
Harvest	Acre	1.00	\$ 50.28	\$ 50.28	\$ 0.27	_____
General Overhead	% of VC	458.44	5.00%	\$ 22.92	\$ 0.12	_____
Management	% of VC	458.44	5.00%	\$ 22.92	\$ 0.12	_____
Irrigation	Acre	1.00	85.00	\$ 85.00	\$ 0.46	_____
Owned Land Costs; Taxes, Cash Payment, Etc.	Acre	1.00	\$ -	\$ -	\$ -	_____
Other _____						_____

**Total Fixed Costs** **\$ 197.66** **\$ 1.07**

TOTAL COSTS AND PROFIT GOAL

**Total Costs Excluding Land** **\$ 656.10** **\$ 3.55**

\*\*\*\* YOUR PROFIT GOAL \*\*\*\* \$ \_\_\_\_\_/Bu.

\$\$-PRICE NEEDED FOR PROFIT-\$\$ \$ \_\_\_\_\_/Bu.

**Sensitivity Analysis of CORN, IRRIGATED**

NET RETURNS ABOVE VARIABLE COSTS PER ACRE						
Varying Prices and Yield (Bushels)						
		-25%	-10%	Average	+10%	+25%
		138.75	166.5	185	203.5	231.25
\$	2.00	\$ (180.94)	\$ (125.44)	\$ (88.44)	\$ (51.44)	\$ 4.06
\$	2.25	\$ (146.26)	\$ (83.82)	\$ (42.19)	\$ (0.57)	\$ 61.87
\$	2.50	\$ (111.57)	\$ (42.19)	\$ 4.06	\$ 50.31	\$ 119.68
\$	2.75	\$ (76.88)	\$ (0.57)	\$ 50.31	\$ 101.18	\$ 177.49
\$	3.00	\$ (42.19)	\$ 41.06	\$ 96.56	\$ 152.06	\$ 235.31

**ESTIMATED LABOR AND MACHINERY COSTS PER ACRE**

Operation	Acres/Hour	Number Times Over	Labor Use (Hr.)	Fuel Use (Gal./Ac)	Machinery Repairs (\$/Ac)	Fixed Costs (\$/Ac)
<b>PREHARVEST OPERATIONS</b>						
Heavy Disk27' with Tractor (180-199 hp)-MFWD 190	13.214	1.00	0.08	0.74	1.13	3.12
Disk Harrow32' with Tractor (180-199 hp)-MFWD 190	16.291	1.00	0.06	0.60	0.91	2.51
Disk Bed (Hipper)6R-36 with Tractor (180-199 hp)-MFWD 190	9.600	1.00	0.10	1.02	1.02	3.01
Plant - Rigid6R-36 with Tractor (120-139 hp)-2WD 130	9.573	1.00	0.10	0.70	1.13	3.02
Fert Appl (Liquid)6R-36 with Tractor (120-139 hp)-2WD 130	9.164	2.00	0.22	1.46	1.90	4.17
Spray (Broadcast)40' with Tractor (120-139 hp)-2WD 130	23.636	1.00	0.04	0.28	0.30	0.71
<b>Total Preharvest Fuel, Repairs, Fixed Costs, &amp; Labor</b>			<b>0.606</b>	<b>\$ 4.80</b>	<b>\$ 6.39</b>	<b>\$ 16.54</b>

<b>HARVEST OPERATIONS</b>						
Header - Corn6R 36" with Combine (200-249 hp)-	4.582	1.000	0.218	2.69543651	\$ 8.01	\$ 48.27
Corn Grain Cart 8R36500 bu with Tractor (120-139 hp)-2WD 130	10.642	1.000	0.094	0.62874828	\$ 0.51	\$ 2.01
					\$ -	
<b>Total Harvest Fuel, Repairs, Fixed Costs, and Labor</b>			<b>0.312</b>	<b>\$ 3.32</b>	<b>\$ 8.52</b>	<b>\$ 50.28</b>

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