

**SOYBEANS, IRRIGATED  
ROUNDUP READY  
SOUTH GEORGIA, 2008**

**ESTIMATED COSTS AND RETURNS**

Expected Yield per Acre

**55 Bushels**

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

Variable Costs:	Unit	Number of Units	\$/Unit	Cost/Acre	\$/Bushels	Your Farm
Seed	Lbs	1.00	\$ 35.00	\$ 35.00	\$ 0.64	_____
Lime	Tons	0.33	\$ 40.00	\$ 13.20	\$ 0.24	_____
Fertilizer						
Nitrogen	Lbs	0.00	\$ 0.53	\$ -	\$ -	_____
Phosphate (P2O5)	Lbs	40.00	\$ 0.40	\$ 16.00	\$ 0.29	_____
Potash (K2O)	Lbs	80.00	\$ 0.30	\$ 24.00	\$ 0.44	_____
Boron	Lbs	0.50	\$ 4.00	\$ 2.00	\$ 0.04	_____
Weed Control	Acre	1.00	\$ 17.09	\$ 17.09	\$ 0.31	_____
Insect Control	Acre	1.00	\$ 5.90	\$ 5.90	\$ 0.11	_____
Disease Control*	Acre	1.00	\$ -	\$ -	\$ -	_____
<i>Machinery: Preharvest</i>						
Fuel	Gallon	3.62	\$ 3.00	\$ 10.87	\$ 0.20	_____
Repairs & Maintenance	Acre	1.00	\$ 5.86	\$ 5.86	\$ 0.11	_____
<i>Machinery: Harvest</i>						
Fuel	Gallon	2.38	\$ 3.00	\$ 7.14	\$ 0.13	_____
Repairs & Maintenance	Acre	1.00	\$ 3.90	\$ 3.90	\$ 0.07	_____
Irrigation** (diesel power unit)	Inch	5.00	\$ 13.50	\$ 67.50	\$ 1.23	_____
Labor	Hrs	0.83	\$ 10.50	\$ 8.74	\$ 0.16	_____
Crop Insurance	Acre	1.00	\$ 8.50	\$ 8.50	\$ 0.15	_____
Land Rental	Acre	1.00	\$ -	\$ -	\$ -	_____
Interest on Operating capital	Percent	\$ 112.85	8.50%	\$ 9.59	\$ 0.17	_____
Drying - 8 points	Bushel	60.36	\$ 0.28	\$ 16.90	\$ 0.31	_____
<b>Total Variable Costs</b>				<b>\$ 252.20</b>	<b>\$ 4.59</b>	

**Fixed Costs:**

Machinery: Depreciation, Taxes, Insurance, and Housing

Preharvest	Acre	1.00	\$ 16.70	\$ 16.70	\$ 0.30	_____
Harvest	Acre	1.00	\$ 25.19	\$ 25.19	\$ 0.46	_____
Irrigation	Acre	1.00	\$ 90.00	\$ 90.00	\$ 1.64	_____
General Overhead	% of VC	\$ 252.20	5.00%	\$ 12.61	\$ 0.23	_____
Management	% of VC	\$ 252.20	5.00%	\$ 12.61	\$ 0.23	_____
Owned Land Costs; Taxes, Cash Payment, Etc.	Acre	1.00	\$ -	\$ -	\$ -	_____
Other _____		1.00	\$ -	\$ -	\$ -	_____
<b>Total Fixed Costs</b>				<b>\$ 157.11</b>	<b>\$ 2.86</b>	

**TOTAL COSTS AND PROFIT GOAL**

<b>Total Costs Excluding Land</b>	<b>\$ 409.31</b>	<b>\$ 7.44</b>
**** YOUR PROFIT GOAL ****	\$ _____/Bu.	
\$\$-PRICE NEEDED FOR PROFIT-\$\$	\$ _____/Bu.	

\* Note: In the case of Asian Soybean Rust infection, add \$10-\$25 for fungicide sprays.

\*\*Irrigation application assumes use of diesel power unit. Electric power unit is estimated to be 50% of the cost of \$3.00 per gal diesel.

### Sensitivity Analysis of SOYBEANS, IRRIGATED

NET RETURNS ABOVE VARIABLE COSTS PER ACRE					
Varying Prices and Yield (Bushels)					
Bu/Acre	-25%	-10%	Average	+10%	+25%
	41.25	49.5	55	60.5	68.75
\$6.00	\$ (4.70)	\$ 44.80	\$ 77.80	\$ 110.80	\$ 160.30
\$6.50	\$ 15.93	\$ 69.55	\$ 105.30	\$ 141.05	\$ 194.68
\$7.00	\$ 36.55	\$ 94.30	\$ 132.80	\$ 171.30	\$ 229.05
\$7.50	\$ 57.18	\$ 119.05	\$ 160.30	\$ 201.55	\$ 263.43
\$8.00	\$ 77.80	\$ 143.80	\$ 187.80	\$ 231.80	\$ 297.80

### 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)	
Heavy Disk27' with Tractor (180-199 hp)-MFWD 190	13.214	1.00	0.08	0.74	1.38	4.02	
Disk Harrow32' with Tractor (180-199 hp)-MFWD 190	16.291	1.00	0.06	0.60	1.12	3.26	
Disk Bed (Hipper)6R-36 with Tractor (180-199 hp)-MFWD 190	9.600	1.00	0.10	1.02	1.17	3.63	
Plant - Rigid6R-36 with Tractor (120-139 hp)-2WD 130	9.573	1.00	0.10	0.70	1.40	3.90	
Spray (Broadcast)60' with Tractor (120-139 hp)-2WD 130	35.455	3.00	0.08	0.57	0.78	1.89	
<b>Total Preharvest Fuel, Repairs, Fixed Costs, &amp; Labor</b>			<b>0.430</b>	<b>3.62</b>	<b>\$ 5.86</b>	<b>\$ 16.70</b>	

HARVEST OPERATIONS							
Operation	Acres/Hour	Number Times Over	Labor Use (Hr.)	Fuel Use (Gal./Ac)	Machinery Repairs (\$/Ac)	Fixed Costs (\$/Ac)	
Header - Soybean18' Flex with Combine (200-249 hp)240hp	7.047	1.000	0.142	1.75	\$ 3.30	\$ 22.73	
Grain Cart500 bu with Tractor (120-139 hp)-2WD 130	10.642	1.000	0.094	0.63	\$ 0.60	\$ 2.46	
<b>Total Harvest Fuel, Repairs, Fixed Costs, and Labor</b>			<b>0.236</b>	<b>2.38</b>	<b>\$ 3.90</b>	<b>\$ 25.19</b>	

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