

**SOYBEANS, IRRIGATED  
ROUNDUP READY  
SOUTH GEORGIA, 2009**

**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	Bag	1.00	\$ 45.00	\$ 45.00	\$ 0.82	_____
Inoculant	Acre	1.00	\$ 3.00	\$ 3.00	\$ 0.05	_____
Lime	Tons	0.33	\$ 43.00	\$ 14.19	\$ 0.26	_____
Fertilizer						
Nitrogen	Lbs	0.00	\$ 0.82	\$ -	\$ -	_____
Phosphate (P2O5)	Lbs	40.00	\$ 0.74	\$ 29.60	\$ 0.54	_____
Potash (K2O)	Lbs	80.00	\$ 0.80	\$ 64.00	\$ 1.16	_____
Boron	Lbs	0.50	\$ 3.90	\$ 1.95	\$ 0.04	_____
Weed Control	Acre	1.00	\$ 22.39	\$ 22.39	\$ 0.41	_____
Insect Control	Acre	1.00	\$ 4.55	\$ 4.55	\$ 0.08	_____
Disease Control*	Acre	1.00	\$ 24.94	\$ 24.94	\$ 0.45	_____
<i>Machinery: Preharvest</i>						
Fuel	Gallon	3.86	\$ 2.85	\$ 10.99	\$ 0.20	_____
Repairs & Maintenance	Acre	1.00	\$ 7.39	\$ 7.39	\$ 0.13	_____
<i>Machinery: Harvest</i>						
Fuel	Gallon	2.38	\$ 2.85	\$ 6.79	\$ 0.12	_____
Repairs & Maintenance	Acre	1.00	\$ 3.93	\$ 3.93	\$ 0.07	_____
Irrigation**	Inch	5.00	\$ 9.55	\$ 47.75	\$ 0.87	_____
Labor	Hrs	0.86	\$ 11.00	\$ 9.48	\$ 0.17	_____
Crop Insurance	Acre	1.00	\$ 14.00	\$ 14.00	\$ 0.25	_____
Land Rental	Acre	1.00	\$ -	\$ -	\$ -	_____
Interest on Operating capital	Percent	\$ 154.97	7.50%	\$ 11.62	\$ 0.21	_____
Drying - 8 points	Bushel	60.36	\$ -	\$ -	\$ -	_____
<b>Total Variable Costs</b>				<b>\$ 321.57</b>	<b>\$ 5.85</b>	_____

**Fixed Costs:**

<i>Machinery: Depreciation, Taxes, Insurance, and Housing</i>						
Preharvest	Acre	1.00	\$ 21.18	\$ 21.18	\$ 0.39	_____
Harvest	Acre	1.00	\$ 25.68	\$ 25.68	\$ 0.47	_____
Irrigation	Acre	1.00	\$ 100.00	\$ 100.00	\$ 1.82	_____
General Overhead	% of VC	\$ 321.57	5.00%	\$ 16.08	\$ 0.29	_____
Management	% of VC	\$ 321.57	5.00%	\$ 16.08	\$ 0.29	_____
Owned Land Costs; Taxes, Cash Payment, Etc.	Acre	1.00	\$ -	\$ -	\$ -	_____
Other _____		1.00	\$ -	\$ -	\$ -	_____
<b>Total Fixed Costs</b>				<b>\$ 179.01</b>	<b>\$ 3.25</b>	_____

**TOTAL COSTS AND PROFIT GOAL**

<b>Total Costs Excluding Land</b>	<b>\$ 500.58</b>	<b>\$ 9.10</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.

\*\*Average of diesel and electric irrigation application costs. Electric is estimated to be \$6/application and diesel is estimated to be \$13.10/application at \$2.85/gallon 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	
\$7.50	\$ (12.20)	\$ 49.68	\$ 90.93	\$ 132.18	\$ 194.05	
\$8.00	\$ 8.43	\$ 74.43	\$ 118.43	\$ 162.43	\$ 228.43	
\$8.50	\$ 29.05	\$ 99.18	\$ 145.93	\$ 192.68	\$ 262.80	
\$9.00	\$ 49.68	\$ 123.93	\$ 173.43	\$ 222.93	\$ 297.18	
\$9.50	\$ 70.30	\$ 148.68	\$ 200.93	\$ 253.18	\$ 331.55	

**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	2.00	0.15	1.48	3.03	8.81	
Disk Harrow32' with Tractor (180-199 hp)-MFWD 190	16.291	1.00	0.06	0.60	1.30	3.78	
Disk Bed (Hipper)6R-36 with Tractor (180-199 hp)-MFWD 190	19.200	1.00	0.05	0.51	0.87	2.77	
Plant - Rigid6R-36 with Tractor (120-139 hp)-2WD 130	9.573	1.00	0.10	0.70	1.43	3.98	
Spray (Broadcast)60' with Tractor (120-139 hp)-2WD 130	35.455	3.00	0.08	0.57	0.76	1.84	
<b>Total Preharvest Fuel, Repairs, Fixed Costs, &amp; Labor</b>			<b>0.454</b>	<b>3.86</b>	<b>\$ 7.39</b>	<b>\$ 21.18</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	\$ 0.63	\$ 2.95	
<b>Total Harvest Fuel, Repairs, Fixed Costs, and Labor</b>			<b>0.236</b>	<b>2.38</b>	<b>\$ 3.93</b>	<b>\$ 25.68</b>	

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