

**SOYBEANS, STRIP-TILLAGE, IRRIGATED  
ROUNDUP READY  
SOUTH GEORGIA, 2009**

**ESTIMATED COSTS AND RETURNS**

Expected Yield                      **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	_____
Cover Seed	Bu.	1.50	\$ 11.00	\$ 16.50	\$ 0.30	_____
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	\$ 30.44	\$ 30.44	\$ 0.55	_____
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	3.06	\$ 2.85	\$ 8.72	\$ 0.16	_____
Repairs & Maintenance	Acre	1.00	\$ 5.62	\$ 5.62	\$ 0.10	_____
<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	4.00	\$ 9.55	\$ 38.20	\$ 0.69	_____
Labor	Hrs	0.75	\$ 11.00	\$ 8.22	\$ 0.15	_____
Crop Insurance	Acre	1.00	\$ 14.00	\$ 14.00	\$ 0.25	_____
Land Rental	Acre	1.00	\$ -	\$ -	\$ -	_____
Interest on Operating capital	Percent	\$ 159.82	7.50%	\$ 11.99	\$ 0.22	_____
Drying - 8 points	Bushel	60.36	\$ -	\$ -	\$ -	_____
<b>Total Variable Costs</b>				<b>\$ 331.62</b>	<b>\$ 6.03</b>	

Fixed Costs:						
<i>Machinery: Depreciation, Taxes, Insurance, and Housing</i>						
Preharvest	Acre	1.00	\$ 16.03	\$ 16.03	\$ 0.29	_____
Harvest	Acre	1.00	\$ 25.68	\$ 25.68	\$ 0.47	_____
Irrigation	Acre	1.00	\$ 100.00	\$ 100.00	\$ 1.82	_____
General Overhead	% of VC	\$ 331.62	5.00%	\$ 16.58	\$ 0.30	_____
Management	% of VC	\$ 331.62	5.00%	\$ 16.58	\$ 0.30	_____
Owned Land Costs; Taxes, Cash Payment, Etc.	Acre	1.00	\$ -	\$ -	\$ -	_____
Other _____						_____
<b>Total Fixed Costs</b>				<b>\$ 174.87</b>	<b>\$ 3.18</b>	

TOTAL COSTS AND PROFIT GOAL		
<b>Total Costs Excluding Land</b>		<b>\$ 506.50    \$ 9.21</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, STRIP-TILLAGE, 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	\$ (22.25)	\$ 39.63	\$ 80.88	\$ 122.13	\$ 184.00	
\$8.00	\$ (1.62)	\$ 64.38	\$ 108.38	\$ 152.38	\$ 218.38	
\$8.50	\$ 19.00	\$ 89.13	\$ 135.88	\$ 182.63	\$ 252.75	
\$9.00	\$ 39.63	\$ 113.88	\$ 163.38	\$ 212.88	\$ 287.13	
\$9.50	\$ 60.25	\$ 138.63	\$ 190.88	\$ 243.13	\$ 321.50	

**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)	
Spin Spreader5 ton with Tractor (120-139 hp)-2WD 130	23.758	1.00	0.04	0.28	0.50	1.42	
Disk Harrow32' with Tractor (180-199 hp)-MFWD 190	16.291	1.00	0.06	0.60	1.30	3.78	
Spray (Broadcast)60' with Tractor (120-139 hp)-2WD 130	35.455	1.00	0.03	0.19	0.25	0.61	
ST Plant-Rigid6R-36 with Tractor (180-199 hp)-MFWD 190	6.873	1.00	0.15	1.42	2.80	8.38	
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>0.362</b>	<b>3.06</b>	<b>\$ 5.62</b>	<b>\$ 16.03</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>	

Prepared By: Amanda R Smith and Nathan B Smith, UGA Extension Economists, Department of Agricultural & Applied Economics

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