

**SOYBEANS, NON-IRRIGATED  
ROUNDUP READY  
SOUTH GEORGIA, 2006**

**ESTIMATED COSTS AND RETURNS**

Expected Yield

**30 Bushels**

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

VARIABLE COSTS	Unit	Number of		\$/Unit	Cost/Acre	\$/Bushels	Your Farm
		Units					
Seed	Lbs	1.00	\$	30.00	\$ 30.00	\$ 1.00	_____
Lime	Tons	0.33	\$	30.00	\$ 9.90	\$ 0.33	_____
Fertilizer							
Nitrogen	Lbs	0.00	\$	0.48	\$ -	\$ -	_____
Phosphate (P2O5)	Lbs	40.00	\$	0.32	\$ 12.80	\$ 0.43	_____
Potash (K2O)	Lbs	80.00	\$	0.24	\$ 19.20	\$ 0.64	_____
Boron	Lbs	0.50	\$	2.50	\$ 1.25	\$ 0.04	_____
Weed Control	Acre	1.00	\$	11.96	\$ 11.96	\$ 0.40	_____
Insect Control	Acre	1.00	\$	6.18	\$ 6.18	\$ 0.21	_____
*Disease Control	Acre	1.00	\$	-	\$ -	\$ -	_____
<i>Machinery: Preharvest</i>							
Fuel	Gallon	3.62	\$	2.25	\$ 8.15	\$ 0.27	_____
Repairs & Maintenance	Acre	1.00	\$	4.78	\$ 4.78	\$ 0.16	_____
<i>Machinery: Harvest</i>							
Fuel	Gallon	1.89	\$	2.25	\$ 4.25	\$ 0.14	_____
Repairs & Maintenance	Acre	1.00	\$	4.18	\$ 4.18	\$ 0.14	_____
Labor	Hrs	0.78	\$	9.80	\$ 7.67	\$ 0.26	_____
Crop Insurance	Acre	1.00	\$	6.00	\$ 6.00	\$ 0.20	_____
Land Rental	Acre	1.00	\$	-	\$ -	\$ -	_____
Interest on Operating capital	Percent	\$ 63.16		7.50%	\$ 4.74	\$ 0.16	_____
Drying - 8 points	Bushel				\$ -	\$ -	_____
<b>Total Variable Costs</b>					<b>\$ 131.07</b>	<b>\$ 4.37</b>	

**Fixed Costs:**

Machinery: Depreciation, Taxes, Insurance, and Housing

Preharvest	Acre	1.00	\$	13.08	\$ 13.08	\$ 0.44	_____
Harvest	Acre	1.00	\$	24.12	\$ 24.12	\$ 0.80	_____
General Overhead	% of VC	131.07		5.00%	\$ 6.55	\$ 0.22	_____
Management	% of VC	131.07		5.00%	\$ 6.55	\$ 0.22	_____
Owned Land Costs; Taxes, Cash Payment, Etc.	Acre	1.00	\$	-	\$ -	\$ -	_____
Other _____							

**Total Fixed Costs** **\$ 50.31** **\$ 1.68**

**TOTAL COSTS AND PROFIT GOAL**

**Total Costs Excluding Land** **\$ 181.38** **\$ 6.05**

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

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

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

**Sensitivity Analysis of SOYBEANS, NON-IRRIGATED**

NET RETURNS ABOVE VARIABLE COSTS PER ACRE						
Varying Prices and Yield (Bushels)						
		-25%	-10%	Average	+10%	+25%
		22.5	27	30	33	37.5
\$	5.00	\$ (18.57)	\$ 3.93	\$ 18.93	\$ 33.93	\$ 56.43
\$	5.25	\$ (12.94)	\$ 10.68	\$ 26.43	\$ 42.18	\$ 65.81
\$	5.50	\$ (7.32)	\$ 17.43	\$ 33.93	\$ 50.43	\$ 75.18
\$	5.75	\$ (1.69)	\$ 24.18	\$ 41.43	\$ 58.68	\$ 84.56
\$	6.00	\$ 3.93	\$ 30.93	\$ 48.93	\$ 66.93	\$ 93.93

**ESTIMATED LABOR AND MACHINERY COSTS PER ACRE**

PREHARVEST OPERATIONS						
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
Spray (Band)40' with Tractor (120-139 hp)-2WD 130	23.636	2.00	0.08	0.57	0.59	1.41
<b>Total Preharvest Fuel, Repairs, Fixed Costs, &amp; Labor</b>			<b>0.430</b>	<b>\$ 3.62</b>	<b>\$ 4.78</b>	<b>\$ 13.08</b>

HARVEST OPERATIONS						
Header - Soybean18' Flex with Combine (200-249 hp)	9.788	1.000	0.102	1.26	\$ 3.67	\$ 22.12
Grain Cart500 bu with Tractor (120-139 hp)-2WD 130	10.642	1.000	0.094	0.63	\$ 0.51	\$ 2.01
					\$ -	
					\$ -	
					\$ -	
					\$ -	
					\$ -	
<b>Total Harvest Fuel, Repairs, Fixed Costs, and Labor</b>			<b>0.196</b>	<b>\$ 1.89</b>	<b>\$ 4.18</b>	<b>\$ 24.12</b>

Prepared By:

Nathan B. Smith, UGA Extension Economist, Department of Agricultural & Applied Economics

Philip H. Jost, UGA Extension Agronomist, Department of Crop Soil Sciences.

