

**Non-Irrigated Soybeans
South Georgia, 2012**

Estimated Costs and Returns

Expected Yield: **30 bushel** Yield Your Farm: _____

Variable Costs	Unit	Amount	\$/Unit	Cost/Acre	\$/bushel	Your Farm
Seed	bag	1	\$ 50.00	\$ 50.00	\$ 1.67	_____
Inoculant	acre	1	\$ 3.50	\$ 3.50	\$ 0.12	_____
Lime	ton	0.33	\$ 35.00	\$ 11.55	\$ 0.39	_____
Fertilizer						
<i>Phosphate</i>	pounds	40	\$ 0.50	\$ 20.00	\$ 0.67	_____
<i>Potash</i>	pounds	80	\$ 0.58	\$ 46.40	\$ 1.55	_____
<i>Boron</i>	pounds	0.5	\$ 5.25	\$ 2.63	\$ 0.09	_____
Weed Control *	acre	1	\$ 30.96	\$ 30.96	\$ 1.03	_____
Insect Control	acre	1	\$ 4.70	\$ 4.70	\$ 0.16	_____
Disease Control **	acre	1	\$ -	\$ -	\$ -	_____
Preharvest Machinery						
<i>Fuel</i>	gallon	3.6	\$ 3.55	\$ 12.87	\$ 0.43	_____
<i>Repairs and Maintenance</i>	acre	1	\$ 7.09	\$ 7.09	\$ 0.24	_____
Harvest Machinery						
<i>Fuel</i>	gallon	2.4	\$ 3.55	\$ 8.45	\$ 0.28	_____
<i>Repairs and Maintenance</i>	acre	1	\$ 5.79	\$ 5.79	\$ 0.19	_____
Labor	hours	0.8	\$ 11.25	\$ 9.37	\$ 0.31	_____
Crop Insurance	acre	1	\$ 18.00	\$ 18.00	\$ 0.60	_____
Land Rent	acre	1	\$ -	\$ -	\$ -	_____
Interest on Operating Capital	percent	\$ 115.66	6.5%	\$ 7.52	\$ 0.25	_____
Total Variable Costs:				\$ 238.83	\$ 7.96	
Fixed Costs						
Machinery Depreciation, Taxes, Insurance and Housing						
<i>Preharvest Machinery</i>	acre	1	\$ 20.13	\$ 20.13	\$ 0.67	_____
<i>Harvest Machinery</i>	acre	1	\$ 27.89	\$ 27.89	\$ 0.93	_____
General Overhead	% of VC	\$ 238.83	5%	\$ 11.94	\$ 0.40	_____
Management	% of VC	\$ 238.83	5%	\$ 11.94	\$ 0.40	_____
Owned Land Cost, Taxes, Cash Payment, etc.	acre	1	\$ -	\$ -	\$ -	_____
Other	acre	1	\$ -	\$ -	\$ -	_____
Total Fixed Costs				\$ 71.90	\$ 2.40	
Total Costs Excluding Land				\$ 310.74	\$ 10.36	
Your Profit Goal				\$ _____	/bushel	
Price Needed for Profit				\$ _____	/bushel	

* In the case of Liberty Link Soybeans, add \$4/ac for additional herbicide cost.

** In the case of Asian Soybean Rust or other disease, add \$15-\$30 for additional fungicide sprays.

Budget developed by Nathan Smith and Amanda Smith. The authors would like to acknowledge contributions by Jared Whitaker, Eric Prostko, Bob Kemerait, Glen Harris and the Georgia County Extension Agents.

Sensitivity Analysis of Non-Irrigated Soybeans

Net Returns Above Variable Costs Per Acre					
Varying Prices and Yields (bushel)					
Price \ bushel/Acre	-25%	-10%	Expected	+10%	+25%
	23	27	30	33	38
\$9.00	-\$36.33	\$4.17	\$31.17	\$58.17	\$98.67
\$10.00	-\$13.83	\$31.17	\$61.17	\$91.17	\$136.17
\$11.00	\$8.67	\$58.17	\$91.17	\$124.17	\$173.67
\$12.00	\$31.17	\$85.17	\$121.17	\$157.17	\$211.17
\$13.00	\$53.67	\$112.17	\$151.17	\$190.17	\$248.67

Estimated Labor and Machinery Costs per Acre

Preharvest Operations

Operation	Acres/Hour	Number of Times Over	Labor Use*** (hrs/ac)	Fuel Use (gal/ac)	Repairs (\$/ac)	Fixed Costs (\$/ac)
Heavy Disk 27' with Tractor (180-199 hp) MFWD 190	13.2	1	0.09	0.74	\$ 1.59	\$ 4.63
Disk Harrow 32' with Tractor (180-199 hp) MFWD 190	16.3	1	0.08	0.60	\$ 1.41	\$ 4.08
Bed-Disk (Hipper) 6R-36 with Tractor (180-199 hp) MFWD 190	9.6	1	0.13	1.02	\$ 1.39	\$ 4.30
Plant - Rigid 6R-36 with Tractor (120-139 hp) 2WD 130	9.5	1	0.13	0.70	\$ 1.67	\$ 4.66
Spray (Broadcast) 60' with Tractor (120-139 hp) 2WD 130	35.5	3	0.11	0.57	\$ 1.03	\$ 2.45
Total Preharvest Values			0.54	3.63	\$ 7.09	\$ 20.13

Harvest Operations

Operation	Acres/Hour	Number of Times Over	Labor Use*** (hrs/ac)	Fuel Use (gal/ac)	Repairs (\$/ac)	Fixed Costs (\$/ac)
Header -Soybean 18' Flex with Combine (200-249 hp) 240 hp	7.0	1	0.18	1.75	\$ 4.57	\$ 24.59
Grain Cart Corn 500 bu with Tractor (120-139 hp) 2WD 130	10.6	1	0.12	0.63	\$ 1.22	\$ 3.29
Total Harvest Values			0.29	2.38	\$ 5.79	\$ 27.89

*** Includes unallocated labor factor of 0.25. Unallocated labor factor is percentage allowance for additional labor required to move equipment and hook/unhook implements, etc.

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