

Peanut, Irrigated
4-Row Combine, 6-Row Equipment
South Georgia, 2011

Estimated Costs and Returns

Expected Yield: **2.0** Ton

Yield on your farm: _____

Variable Costs	Unit	Amount	\$/Unit	Cost/Acre	\$/Ton	Your Farm
Seed	pound	130	\$ 0.75	\$ 97.50	\$ 48.75	_____
Inoculant	pound	5	\$ 1.40	\$ 7.00	\$ 3.50	_____
Lime/Gypsum ^a	ton	0.5	\$ 98.50	\$ 49.25	\$ 24.63	_____
Fertilizer						
<i>Phosphate</i>	pound	0	\$ 0.45	\$ -	\$ -	_____
<i>Potash</i>	pound	0	\$ 0.50	\$ -	\$ -	_____
<i>Boron</i>	pound	0.5	\$ 6.25	\$ 3.13	\$ 1.56	_____
Weed Control	acre	1	\$ 39.70	\$ 39.70	\$ 19.85	_____
Insect Control	acre	1	\$ 54.50	\$ 54.50	\$ 27.25	_____
Disease Control ^b	acre	1	\$ 83.45	\$ 83.45	\$ 41.73	_____
Preharvest Machinery						
<i>Fuel</i>	gallon	9.2	\$ 2.85	\$ 26.31	\$ 13.16	_____
<i>Repairs and Maintenance</i>	acre	1	\$ 15.46	\$ 15.46	\$ 7.73	_____
Harvest Machinery						
<i>Fuel</i>	gallon	12.0	\$ 2.85	\$ 34.29	\$ 17.15	_____
<i>Repairs and Maintenance</i>	acre	1	\$ 26.56	\$ 26.56	\$ 13.28	_____
Labor	hour	3.0	\$ 11.25	\$ 34.23	\$ 17.12	_____
Irrigation ^c	acre	6	\$ 10.00	\$ 60.00	\$ 30.00	_____
Crop Insurance ^d	acre	1	\$ 27.50	\$ 27.50	\$ 13.75	_____
Land Rent	acre	1	\$ -	\$ -	\$ -	_____
Interest on Operating Capital	percent	\$ 279.44	6.5%	\$ 18.16	\$ 9.08	_____
Cleaning	ton	0.7	\$ 12.00	\$ 8.00	\$ 4.00	_____
Drying	ton	1.3	\$ 30.00	\$ 40.00	\$ 20.00	_____
GPC & GPPA State	ton	2.0	\$ 3.00	\$ 6.00	\$ 3.00	_____
NPB Checkoff	dollars	\$ 0.01	710	\$ 7.10	\$ 3.55	_____
Total Variable Costs:				\$ 638.14	\$ 319.07	
Fixed Costs						
Machinery Depreciation, Taxes, Insurance and Housing						
<i>Preharvest Machinery</i>	acre	1	\$ 44.57	\$ 44.57	\$ 22.29	_____
<i>Harvest Machinery</i>	acre	1	\$ 82.93	\$ 82.93	\$ 41.47	_____
<i>Irrigation</i> ^c	acre	1	\$ 110.00	\$ 110.00	\$ 55.00	_____
General Overhead	% of VC	\$ 638.14	5%	\$ 31.91	\$ 15.95	_____
Management	% of VC	\$ 638.14	5%	\$ 31.91	\$ 15.95	_____
Owned Land Cost, Taxes, Cash Payment, etc.	acre	1	\$ -	\$ -	\$ -	_____
Other _____	acre	1	\$ -	\$ -	\$ -	_____
Total Fixed Costs				\$ 301.32	\$ 150.66	
Total Costs Excluding Land				\$ 939.46	\$ 469.73	
Your Profit Goal				\$ _____	/Ton	
Price Needed for Profit				\$ _____	/Ton	

^a Lime/gypsum application is prorated at 0.5 ton to equal 1.5 ton application every 3 years.

^b If soilborne disease threatens to be severe, additional application of soilborne fungicide may be recommended, add \$15-20/spray. If leafspot threatens to be severe, additional application of chlorothalonil may be recommended at 3/4 pint (\$3-5/ac). A nematicide (where needed) = \$50-75/ac.

^c Average of diesel and electric irrigation application costs. Electric is estimated at \$7/appl and diesel is estimated at \$13/appl when diesel costs \$2.85/gal.

^d Assumes Yield Protection at 70% coverage. Revenue Protection at 70% coverage adds \$4-9/ac.

Sensitivity Analysis of Peanut, Irrigated

Net Returns Above Variable Costs Per Acre						
Varying Prices and Yields (Ton)						
		-25%	-10%	Expected	+10%	+25%
		3,000	3,600	4,000	4,400	5,000
Price	Pounds/Acre					
	Ton/Acre	1.5	1.8	2.0	2.2	2.5
\$375		-\$75.64	\$36.86	\$111.86	\$186.86	\$299.36
\$425		-\$0.64	\$126.86	\$211.86	\$296.86	\$424.36
\$475		\$74.36	\$216.86	\$311.86	\$406.86	\$549.36
\$525		\$149.36	\$306.86	\$411.86	\$516.86	\$674.36
\$575		\$224.36	\$396.86	\$511.86	\$626.86	\$799.36

Estimated Labor and Machinery Costs per Acre

Preharvest Operations

Operation	Acres/ Hour	Number		Labor Use ^e (hrs/ac)	Fuel Use (gal/ac)	Repairs (\$/ac)	Fixed Costs (\$/ac)
		of Times Over					
Heavy Disk 27' with Tractor (180-199 hp) MFWD 190	13.2	2		0.19	1.48	\$ 2.89	\$ 8.40
Plow 4 Bottom Switch with Tractor (180-199 hp) MFWD 190	2.3	1		0.54	4.20	\$ 5.60	\$ 16.90
Disk & Incorporate 32' with Tractor (180-199 hp) MFWD 190	15.3	1		0.08	0.64	\$ 1.57	\$ 4.10
Field Cultivate Fld 32' with Tractor (180-199 hp) MFWD 190	21.4	1		0.06	0.46	\$ 0.82	\$ 3.50
Plant & Pre-Rigid 6R-36 with Tractor (120-139 hp) 2WD 130	8.9	1		0.14	0.75	\$ 1.89	\$ 5.26
Spray (Broadcast) 60' with Tractor (120-139 hp) 2WD 130	35.5	9		0.32	1.70	\$ 2.69	\$ 6.42
Total Preharvest Values				1.32	9.23	\$ 15.46	\$ 44.57

Harvest Operations

Operation	Acres/ Hour	Number		Labor Use ^e (hrs/ac)	Fuel Use (gal/ac)	Repairs (\$/ac)	Fixed Costs (\$/ac)
		of Times Over					
Peanut Dig/Inverter 4R-36 with Tractor (180- 199 hp) MFWD 190	2.2	1		0.57	4.48	\$ 6.56	\$ 16.13
Pull-type Peanut Combine 4R-36 with Tractor (180-199 hp) MFWD 190	2.2	1		0.57	4.48	\$ 16.04	\$ 56.27
Peanut Wagon 21' with Tractor (120-139 hp) 2WD 130	2.2	1		0.57	3.07	\$ 3.95	\$ 10.53
Total Harvest Values				1.72	12.03	\$ 26.56	\$ 82.93

^e 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.

Developed by Nathan Smith and Amanda Smith. The authors would like to acknowledge the contributions by John Beasley, David Adams, Glen Harris, Eric Prostko, Scott Tubbs, Bob Kemeraitt and the Georgia County Extension Agents.