

**Non-Irrigated Peanut  
4-Row Combine, 6-Row Equipment  
South Georgia, 2012**

**Estimated Costs and Returns**

Expected Yield: **1.45 ton**      Yield Your Farm: \_\_\_\_\_

Variable Costs	Unit	Amount	\$/Unit	Cost/Acre	\$/ton	Your Farm
Seed	pounds	130	\$ 1.40	\$ 182.00	\$ 125.52	_____
Inoculant	pounds	5	\$ 1.45	\$ 7.25	\$ 5.00	_____
Lime/Gypsum *	ton	0.5	\$ 101.00	\$ 50.50	\$ 34.83	_____
Fertilizer						
<i>Boron</i>	pounds	0.5	\$ 5.25	\$ 2.63	\$ 1.81	_____
<i>Phosphate</i>	pounds	0	\$ 0.50	\$ -	\$ -	_____
<i>Potash</i>	pounds	0	\$ 0.58	\$ -	\$ -	_____
Weed Control	acre	1	\$ 55.55	\$ 55.55	\$ 38.31	_____
Insect Control	acre	1	\$ 45.40	\$ 45.40	\$ 31.31	_____
Disease Control **	acre	1	\$ 39.58	\$ 39.58	\$ 27.30	_____
Preharvest Machinery						
<i>Fuel</i>	gallon	9.2	\$ 3.55	\$ 32.78	\$ 22.60	_____
<i>Repairs and Maintenance</i>	acre	1	\$ 17.06	\$ 17.06	\$ 11.77	_____
Harvest Machinery						
<i>Fuel</i>	gallon	10.3	\$ 3.55	\$ 36.54	\$ 25.20	_____
<i>Repairs and Maintenance</i>	acre	1	\$ 29.06	\$ 29.06	\$ 20.04	_____
Labor	hours	2.8	\$ 11.25	\$ 31.74	\$ 21.89	_____
Crop Insurance	acre	1	\$ 51.00	\$ 51.00	\$ 35.17	_____
Land Rent	acre	1	\$ -	\$ -	\$ -	_____
Interest on Operating Capital	percent	\$ 290.54	6.5%	\$ 18.89	\$ 13.02	_____
Cleaning	ton	0.5	\$ 12.00	\$ 5.74	\$ 3.96	_____
Drying	ton	1.0	\$ 30.00	\$ 29.15	\$ 20.10	_____
Marketing	ton	1.5	\$ 3.00	\$ 4.35	\$ 3.00	_____
NPB Checkoff	dollars	\$ 0.01	515	\$ 5.15	\$ 3.55	_____
<b>Total Variable Costs:</b>				<b>\$ 644.35</b>	<b>\$ 444.38</b>	
<b>Fixed Costs</b>						
Machinery Depreciation, Taxes, Insurance and Housing						
<i>Preharvest Machinery</i>	acre	1	\$ 49.04	\$ 49.04	\$ 33.82	_____
<i>Harvest Machinery</i>	acre	1	\$ 90.44	\$ 90.44	\$ 62.37	_____
General Overhead	% of VC	\$ 644.35	5%	\$ 32.22	\$ 22.22	_____
Management	% of VC	\$ 644.35	5%	\$ 32.22	\$ 22.22	_____
Owned Land Cost, Taxes, Cash Payment, etc.	acre	1	\$ -	\$ -	\$ -	_____
Other _____	acre	1	\$ -	\$ -	\$ -	_____
<b>Total Fixed Costs</b>				<b>\$ 203.92</b>	<b>\$ 140.63</b>	
<b>Total Costs Excluding Land</b>				<b>\$ 848.27</b>	<b>\$ 585.01</b>	
<b>Your Profit Goal</b>			\$ _____	/ton		
<b>Price Needed for Profit</b>			\$ _____	/ton		

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

\*\* 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.

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

### Sensitivity Analysis of 4-Row Combine, 6-Row Equipment

Net Returns Above Variable Costs Per Acre					
Varying Prices and Yields (ton)					
Price \ ton/Acre	-25%	-10%	Expected	+10%	+25%
	1.09	1.31	1.45	1.60	1.81
\$400	-\$209.35	-\$122.35	-\$64.35	-\$6.35	\$80.65
\$500	-\$100.60	\$8.15	\$80.65	\$153.15	\$261.90
\$600	\$8.15	\$138.65	\$225.65	\$312.65	\$443.15
\$700	\$116.90	\$269.15	\$370.65	\$472.15	\$624.40
\$800	\$225.65	\$399.65	\$515.65	\$631.65	\$805.65

### 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	2	0.19	1.48	\$ 3.19	\$ 9.27
Plow 4 Bottom Switch with Tractor (180-199 hp) MFWD 190	2.3	1	0.54	4.20	\$ 6.25	\$ 18.87
Disk & Incorporate 32' with Tractor (180-199 hp) MFWD 190	15.3	1	0.08	0.64	\$ 1.67	\$ 4.36
Field Cultivate Fld 32' with Tractor (180-199 hp) MFWD 190	21.4	1	0.06	0.46	\$ 0.86	\$ 3.59
Plant & Pre-Rigid 6R-36 with Tractor (120-139 hp) 2WD 130	8.9	1	0.14	0.75	\$ 2.01	\$ 5.59
Spray (Broadcast) 60' with Tractor (120-139 hp) 2WD 130	35.5	9	0.32	1.70	\$ 3.09	\$ 7.36
<b>Total Preharvest Values</b>			<b>1.32</b>	<b>9.23</b>	<b>\$ 17.06</b>	<b>\$ 49.04</b>

#### Harvest Operations

Operation	Acres/Hour	Number of Times Over	Labor Use*** (hrs/ac)	Fuel Use (gal/ac)	Repairs (\$/ac)	Fixed Costs (\$/ac)
Peanut Dig/Inverter 4R-36 with Tractor (180-199 hp) MFWD 190	3.6	1	0.35	2.74	\$ 6.83	\$ 16.27
Pull-type Peanut Combine 4R-36 with Tractor (180-199 hp) MFWD 190	2.2	1	0.57	4.48	\$ 17.76	\$ 62.23
Peanut Wagon 21' with Tractor (120-139 hp) 2WD 130	2.2	1	0.57	3.07	\$ 4.47	\$ 11.93
<b>Total Harvest Values</b>			<b>1.50</b>	<b>10.29</b>	<b>\$ 29.06</b>	<b>\$ 90.44</b>

\*\*\* 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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