

**GRAIN SORGHUM, NON-IRRIGATED, STRIP-TILLAGE
SOUTH GEORGIA, 2009**

ESTIMATED COSTS AND RETURNS

Expected Yield **65 Bushels** YIELD: YOUR FARM _____

Variable Costs:	Unit	Number of Units	\$/Unit	Cost/Acre	\$/Bushels	Your Farm
Seed with Treatment	Thous.	50.00	\$ 0.145	\$ 7.27	\$ 0.11	_____
Cover Crop Seed	Bushel	1.50	\$ 11.00	\$ 16.50	\$ 0.25	_____
Lime	Tons	0.25	\$ 43.00	\$ 10.75	\$ 0.17	_____
Fertilizer						
Nitrogen	Lbs	80.00	\$ 0.82	\$ 65.60	\$ 1.01	_____
Phosphate (P2O5)	Lbs	60.00	\$ 0.74	\$ 44.40	\$ 0.68	_____
Potash (K2O)	Lbs	60.00	\$ 0.80	\$ 48.00	\$ 0.74	_____
Weed Control						
Pre-emerge ¹ - Dual Magnum	Acre	1.00	\$ 11.13	\$ 11.13	\$ 0.17	_____
Post -emerge - Atrazine	Acre	1.00	\$ 6.00	\$ 6.00	\$ 0.09	_____
Insect Control	Acre	1.00	\$ -	\$ -	\$ -	_____
<i>Machinery: Preharvest²</i>						
Fuel	Gallon	3.05	\$ 2.85	\$ 8.69	\$ 0.13	_____
Repairs & Maintenance	Acre	1.00	\$ 6.04	\$ 6.04	\$ 0.09	_____
<i>Machinery: Harvest</i>						
Fuel	Gallon	2.65	\$ 2.85	\$ 7.55	\$ 0.12	_____
Repairs & Maintenance	Acre	1.00	\$ 3.66	\$ 3.66	\$ 0.06	_____
Labor	Hrs	0.77	\$ 11.00	\$ 8.49	\$ 0.13	_____
Crop Insurance	Acre	1.00	\$ 10.00	\$ 10.00	\$ 0.15	_____
Land Rental	Acre	1.00	\$ -	\$ -	\$ -	_____
Interest on Operating capital	Percent	\$ 127.04	7.50%	\$ 9.53	\$ 0.15	_____
Drying - 8 points	Bushel	71.33	\$ 0.28	\$ 19.97	\$ 0.31	_____
Total Variable Costs				\$ 283.58	\$ 4.36	

Fixed Costs:						
Machinery: Depreciation, Taxes, Insurance, and Housing						
Preharvest	Acre	1.00	\$ 16.65	\$ 16.65	\$ 0.26	_____
Harvest	Acre	1.00	\$ 23.75	\$ 23.75	\$ 0.37	_____
General Overhead	% of VC	\$ 283.58	5.00%	\$ 14.18	\$ 0.22	_____
Management	% of VC	\$ 283.58	5.00%	\$ 14.18	\$ 0.22	_____
Owned Land Costs; Taxes, Cash Payment, Etc.						
Other _____	Acre	1.00	\$ -	\$ -	\$ -	_____
Total Fixed Costs				\$ 68.76	\$ 1.06	

TOTAL COSTS AND PROFIT GOAL		
Total Costs Excluding Land	\$ 352.33	\$ 5.42
**** YOUR PROFIT GOAL ****	\$ _____/Bu.	
\$\$-PRICE NEEDED FOR PROFIT-\$\$	\$ _____/Bu.	

(1) Substituting mechanical cultivation for pre-emerge herbicide application would lower variable cost by \$10 per acre and in fixed costs by \$1.75 per acre.

(2) Planting may also be done with a grain drill in place of row crop planter. Substitution of a planter and rip and bed operation with field cultivation and 20' grain drill would lower variable cost by \$2.65 per acre and lower fixed cost by \$1.60 per acre.

Sensitivity Analysis of GRAIN SORGHUM, NON-IRRIGATED, STRIP-TILLAGE

NET RETURNS ABOVE VARIABLE COSTS PER ACRE						
Varying Prices and Yield (Bushels)						
Bu/Acre	-25%	-10%	Average	+10%	+25%	
	48.75	58.5	65	71.5	81.25	
\$3.00	\$ (137.33)	\$ (108.08)	\$ (88.58)	\$ (69.08)	\$ (39.83)	
\$3.25	\$ (125.14)	\$ (93.45)	\$ (72.33)	\$ (51.20)	\$ (19.51)	
\$3.50	\$ (112.95)	\$ (78.83)	\$ (56.08)	\$ (33.33)	\$ 0.80	
\$3.75	\$ (100.76)	\$ (64.20)	\$ (39.83)	\$ (15.45)	\$ 21.11	
\$4.00	\$ (88.58)	\$ (49.58)	\$ (23.58)	\$ 2.42	\$ 41.42	

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
Fert Appl (Liquid)6R-36 with Tractor (120-139 hp)-2WD 130	18.327	1.00	0.05	0.37	0.93	1.84
Spray (Broadcast)60' with Tractor (120-139 hp)-2WD 130	35.455	1.00	0.03	0.19	0.25	0.61
Total Preharvest Fuel, Repairs, Fixed Costs, & Labor			0.36	3.05	\$ 6.04	\$ 16.65

HARVEST OPERATIONS						
Operation	Acres/Hour	Number Times Over	Labor Use (Hr.)	Fuel Use (Gal./Ac)	Machinery Repairs (\$/Ac)	Fixed Costs (\$/Ac)
Header - Corn6R 36" with Combine (200-249 hp)240hp	6.109	1.000	0.164	2.02	\$ 3.06	\$ 21.20
Corn Grain Cart 8R36500 bu with Tractor (120-139 hp)-2WD 130	10.642	1.000	0.094	0.63	\$ 0.60	\$ 2.55
Total Harvest Fuel, Repairs, Fixed Costs, and Labor			0.26	2.65	\$ 3.66	\$ 23.75

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