

**WHEAT FOR GRAIN, CONVENTIONAL
GEORGIA, 2015**

ESTIMATED COSTS AND RETURNS

Expected Yield **55 Bushels** YIELD: YOUR FARM _____

Variable Costs:*	Unit	Number of Units	\$/Unit	Cost/Acre	\$/Bushels	Your Farm
Seed	Bushel	1.50	\$ 20.00	\$ 30.00	\$ 0.55	_____
Lime	Tons	0.25	\$ 40.00	\$ 10.00	\$ 0.18	_____
Fertilizer						
Nitrogen	Lbs	80.00	\$ 0.72	\$ 48.00	\$ 0.87	_____
Phosphate (P2O5)	Lbs	40.00	\$ 0.50	\$ 16.00	\$ 0.29	_____
Potash (K2O)	Lbs	40.00	\$ 0.50	\$ 18.00	\$ 0.33	_____
Weed Control	Acre	1.00	\$ 18.65	\$ 18.65	\$ 0.34	_____
Insect Control	Acre	1.00	\$ -	\$ -	\$ -	_____
Disease Control	Acre	1.00	\$ 1.60	\$ 1.60	\$ 0.03	_____
<i>Machinery: Preharvest</i>						
Fuel	Gallon	2.77	\$ 3.50	\$ 9.70	\$ 0.18	_____
Repairs & Maintenance	Acre	1.00	\$ 5.75	\$ 5.75	\$ 0.10	_____
<i>Machinery: Harvest</i>						
Fuel	Gallon	2.77	\$ 3.50	\$ 9.71	\$ 0.18	_____
Repairs & Maintenance	Acre	1.00	\$ 4.42	\$ 4.42	\$ 0.08	_____
Labor	Hrs	0.62	\$ 12.50	\$ 7.77	\$ 0.14	_____
Crop Insurance	Acre	1.00	\$ 15.00	\$ 15.00	\$ 0.27	_____
Land Rental	Acre	1.00	\$ -	\$ -	\$ -	_____
Interest on Operating capital	Percent	\$ 97.30	6.50%	\$ 6.32	\$ 0.11	_____
Drying - 2 points	Bushel	56.65	\$ 0.09	\$ 5.10	\$ 0.09	_____
Total Variable Costs				\$ 206.03	\$ 3.75	
Fixed Costs:						
Machinery: Depreciation, Taxes, Insurance, and Housing						
Preharvest	Acre	1.00	\$ 16.25	\$ 16.25	\$ 0.30	_____
Harvest	Acre	1.00	\$ 21.11	\$ 21.11	\$ 0.38	_____
General Overhead	% of VC	\$ 206.03	5.00%	\$ 10.30	\$ 0.19	_____
Management	% of VC	\$ 206.03	5.00%	\$ 10.30	\$ 0.19	_____
Owned Land Costs; Taxes, Cash Payment, Etc.	Acre	1.00	\$ -	\$ -	\$ -	_____
Other _____						_____
Total Fixed Costs				\$ 57.97	\$ 1.05	
TOTAL COSTS AND PROFIT GOAL						
Total Costs Excluding Land				\$ 264.00	\$ 4.80	
**** YOUR PROFIT GOAL ****				\$ _____	/Bu.	
\$\$-PRICE NEEDED FOR PROFIT-\$\$				\$ _____	/Bu.	

FOOTNOTES

*Seed, fertilizer, chemical and fuel costs could vary as much as +/- 15 to 20% from estimates shown. The estimates are based on "normal" or typical growing conditions and pest pressure. Abnormal weather, weed/grass problems, insects, and diseases would alter the estimates shown above.



Sensitivity Analysis of WHEAT FOR GRAIN, CONVENTIONAL

NET RETURNS ABOVE VARIABLE COSTS PER ACRE						
Varying Prices and Yield (Bushels)						
		-25%	-10%	Average	+10%	+25%
		41.25	49.5	55	60.5	68.75
\$	4.75	\$ (10.09)	\$ 29.10	\$ 55.22	\$ 81.35	\$ 120.54
\$	5.25	\$ 10.54	\$ 53.85	\$ 82.72	\$ 111.60	\$ 154.91
\$	5.75	\$ 31.16	\$ 78.60	\$ 110.22	\$ 141.85	\$ 189.29
\$	6.25	\$ 51.79	\$ 103.35	\$ 137.72	\$ 172.10	\$ 223.66
\$	6.75	\$ 72.41	\$ 128.10	\$ 165.22	\$ 202.35	\$ 258.04

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)	
Disk Harrow 32' with Tractor (180-199 hp)-MFWD 190	16.291	1.00	0.06	0.60	1.52	4.42	
Chisel Plow (Rigid) 24' with Tractor (180-199 hp)-MFWD 190	12.982	1.00	0.08	0.75	1.21	3.41	
Grain Drill 15' with Tractor (180-199 hp)-MFWD 190	7.955	1.00	0.13	1.23	2.73	7.72	
Spray (Broadcast) 60' with Tractor (120-139 hp)-2WD 130	35.455	1.00	0.03	0.19	0.29	0.71	
Total Preharvest Fuel, Repairs, Fixed Costs, & Labor				0.292	2.77	\$ 5.75	\$ 16.25

HARVEST OPERATIONS							
Operation	Acres/Hour	Number Times Over	Labor Use (Hr.)	Fuel Use (Gal./Ac)	Machinery Repairs (\$/Ac)	Fixed Costs (\$/Ac)	
Header Wheat/Sorghum 22' Rigid with Combine (300-349 hp)-325hp	9.015	1.000	0.111	1.86	\$ 3.16	\$ 16.52	
Corn Grain Cart 8R36500 bu with Tractor (180-199 hp)-MFWD 190	10.642	1.000	0.094	0.92	\$ 1.26	\$ 4.59	
Total Harvest Fuel, Repairs, Fixed Costs, and Labor				0.205	2.77	\$ 4.42	\$ 21.11

Prepared and Reviewed By: Nathan B Smith and Amanda R Smith, UGA Extension Economists, Department of Agricultural & Applied Economics, Dewey Lee, UGA Extension Agronomist, Department of Crop and Soil Sciences.

