

**WHEAT FOR GRAIN, INTENSIVE MANAGEMENT
GEORGIA, 2019/20**

Estimated Costs and Returns

Expected Yield: **75 bushel** Your Yield _____

Variable Costs	Unit	Amount	\$/Unit	Cost/Acre	\$/bushel	Your Farm
Treated Seed	pounds	125	\$ 0.30	\$ 38.00	\$ 0.51	
Lime	ton	0.25	\$ 45.00	\$ 11.25	\$ 0.15	
Fertilizer						
<i>Nitrogen</i>	pounds	120	\$ 0.50	\$ 60.00	\$ 0.80	
<i>Phosphate</i>	pounds	50	\$ 0.38	\$ 19.00	\$ 0.25	
<i>Potash</i>	pounds	60	\$ 0.33	\$ 19.80	\$ 0.26	
Weed Control	acre	1	\$ 44.08	\$ 44.08	\$ 0.59	
Insect Control	acre	1	\$ 2.25	\$ 2.25	\$ 0.03	
Disease Control**	acre	1	\$ 7.80	\$ 7.80	\$ 0.10	
Preharvest Machinery						
<i>Fuel</i>	gallon	8.0	\$ 2.35	\$ 18.83	\$ 0.25	
<i>Repairs and Maintenance</i>	acre	1	\$ 16.96	\$ 16.96	\$ 0.23	
Harvest Machinery						
<i>Fuel</i>	gallon	3.0	\$ 2.35	\$ 7.12	\$ 0.09	
<i>Repairs and Maintenance</i>	acre	1	\$ 5.62	\$ 5.62	\$ 0.07	
Labor	hours	1.3	\$ 13.25	\$ 17.21	\$ 0.23	
Irrigation*	applications	1	\$ 9.00	\$ 9.00	\$ 0.12	
Crop Insurance	acre	1	\$ 11.00	\$ 11.00	\$ 0.15	
Land Rent	acre	1	\$ -	\$ -	\$ -	
Interest on Operating Capital	percent	\$ 143.96	6.25%	\$ 9.00	\$ 0.12	
Drying - 2 Points	bushel	82	\$ 0.09	\$ 7.41	\$ 0.10	
Total Variable Costs:				\$ 304.32	\$ 4.06	
Fixed Costs						
Machinery Depreciation, Taxes, Insurance and Housing						
<i>Preharvest Machinery</i>	acre	1	\$ 48.55	\$ 48.55	\$ 0.65	
<i>Harvest Machinery</i>	acre	1	\$ 26.47	\$ 26.47	\$ 0.35	
<i>Irrigation</i>	acre	1	\$ 130.00	\$ 130.00	\$ 1.73	
General Overhead	% of VC	\$ 304.32	5%	\$ 15.22	\$ 0.20	
Management	% of VC	\$ 304.32	5%	\$ 15.22	\$ 0.20	
Owned Land Cost, Taxes, Cash Payment, etc.	acre	1	\$ -	\$ -	\$ -	
Other _____	acre	1	\$ -	\$ -	\$ -	
Total Fixed Costs				\$ 235.45	\$ 3.14	
Total Costs Excluding Land				\$ 539.77	\$ 7.20	
Your Profit Goal				\$ _____	/bushel	
Price Needed for Profit				\$ _____	/bushel	

*Average of diesel and electric irrigation application costs. Electric is estimated at \$7/appl and diesel is estimated at \$12.50/appl when diesel costs \$2.35/gal.

** If disease is expected to be a problem, add an additional \$12-15/acre for chemical and application costs.

.....
Developed by Amanda Smith.

Sensitivity Analysis of WHEAT FOR GRAIN, INTENSIVE MANAGEMENT

Net Returns Above Variable Costs Per Acre

Varying Prices and Yields (bushel)

Price \ bushel/Acre	-25%	-10%	Expected	+10%	+25%
	56	68	75	83	94
\$3.75	-\$93.38	-\$51.20	-\$23.07	\$5.05	\$47.24
\$4.00	-\$79.32	-\$34.32	-\$4.32	\$25.68	\$70.68
\$4.25	-\$65.26	-\$17.45	\$14.43	\$46.30	\$94.12
\$4.50	-\$51.20	-\$0.57	\$33.18	\$66.93	\$117.55
\$4.75	-\$37.13	\$16.30	\$51.93	\$87.55	\$140.99
\$5.00	-\$23.07	\$33.18	\$70.68	\$108.18	\$164.43
\$5.25	-\$9.01	\$50.05	\$89.43	\$128.80	\$187.87

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)
Plow 4 Bottom Switch with Tractor (180-199 hp) MFWD 190	2.3	1	0.54	4.20	\$ 7.52	\$ 22.68
Disk Harrow 32' with Tractor (180-199 hp) MFWD 190	16.3	2	0.15	1.20	\$ 3.54	\$ 10.26
Grain Drill 15' with Tractor (180-199 hp) MFWD 190	8.0	1	0.16	1.23	\$ 3.11	\$ 8.74
Spray (Broadcast) 60' with Tractor (180-199 hp) MFWD 190	35.5	5	0.18	1.38	\$ 2.79	\$ 6.87
					\$ -	\$ -
					\$ -	\$ -
Total Preharvest Values			1.02	8.01	\$ 16.96	\$ 48.55

Harvest Operations

Operation	Acres/Hour	Number of Times Over	Labor Use** (hrs/ac)	Fuel Use (gal/ac)	Repairs (\$/ac)	Fixed Costs (\$/ac)
Header Wheat/Sorghum 22' Rigid with Combine (300-349 hp) 325 hp	7.9	1	0.16	2.11	\$ 3.79	\$ 21.43
Grain Cart Wht/Sor 500 bu with Tractor (180-199 hp) MFWD 190	10.6	1	0.12	0.92	\$ 1.83	\$ 5.04
Total Harvest Values			0.28	3.03	\$ 5.62	\$ 26.47

** 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 Amanda Smith.