

**WHEAT FOR GRAIN, CONVENTIONAL
GEORGIA, 2021-22**

Estimated Costs and Returns

Expected Yield: **55** bushel Your Yield _____

Variable Costs**	Unit	Amount	\$/Unit	Cost/Acre	\$/bushel	Your Farm
Seed	pounds	90	\$ 0.48	\$ 43.20	\$ 0.79	_____
Lime	ton	0.25	\$ 50.00	\$ 12.50	\$ 0.23	_____
Fertilizer						
<i>Nitrogen</i>	pounds	80	\$ 0.90	\$ 72.00	\$ 1.31	_____
<i>Phosphate</i>	pounds	40	\$ 0.70	\$ 28.00	\$ 0.51	_____
<i>Potash</i>	pounds	40	\$ 0.70	\$ 28.00	\$ 0.51	_____
Weed Control	acre	1	\$ 27.82	\$ 27.82	\$ 0.51	_____
Insect Control	acre	1	\$ 1.43	\$ 1.43	\$ 0.03	_____
Disease Control	acre	1	\$ 12.30	\$ 12.30	\$ 0.22	_____
Disease Spray by Air	acre	1	\$ 8.00	\$ 8.00	\$ 0.15	_____
Preharvest Machinery						
<i>Fuel</i>	gallon	3.3	\$ 3.10	\$ 10.35	\$ 0.19	_____
<i>Repairs and Maintenance</i>	acre	1	\$ 8.72	\$ 8.72	\$ 0.16	_____
Harvest Machinery						
<i>Fuel</i>	gallon	3.0	\$ 3.10	\$ 9.39	\$ 0.17	_____
<i>Repairs and Maintenance</i>	acre	1	\$ 6.37	\$ 6.37	\$ 0.12	_____
Labor	hours	0.7	\$ 13.50	\$ 10.07	\$ 0.18	_____
Irrigation*	applications		\$ 9.25	\$ -	\$ -	_____
Crop Insurance	acre	1	\$ 13.00	\$ 13.00	\$ 0.24	_____
Land Rent	acre	1	\$ -	\$ -	\$ -	_____
Interest on Operating Capital	percent	\$ 145.57	5.50%	\$ 8.01	\$ 0.15	_____
Drying - 2 Points	bushel	60	\$ 0.09	\$ 5.43	\$ 0.10	_____
Total Variable Costs:				\$ 304.58	\$ 5.54	
Fixed Costs						
Machinery Depreciation, Taxes, Insurance and Housing						
<i>Preharvest Machinery</i>	acre	1	\$ 23.90	\$ 23.90	\$ 0.43	_____
<i>Harvest Machinery</i>	acre	1	\$ 30.17	\$ 30.17	\$ 0.55	_____
<i>Irrigation</i>	acre	0	\$ 135.00	\$ -	\$ -	_____
General Overhead	% of VC	\$ 304.58	5%	\$ 15.23	\$ 0.28	_____
Management	% of VC	\$ 304.58	5%	\$ 15.23	\$ 0.28	_____
Owned Land Cost, Taxes, Cash Payment, etc.	acre	1	\$ -	\$ -	\$ -	_____
Other _____	acre	1	\$ -	\$ -	\$ -	_____
Total Fixed Costs				\$ 84.53	\$ 1.54	
Total Costs Excluding Land				\$ 389.11	\$ 7.07	
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 \$13/appl when diesel costs \$3/gal.

**There is much volatility and uncertainty in the markets. Prices may change 10% or more in a matter of days. These costs are relevant as of Nov 1, 2021

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Developed by Amanda Smith.

Sensitivity Analysis of WHEAT FOR GRAIN, CONVENTIONAL

Net Returns Above Variable Costs Per Acre					
Varying Prices and Yields (bushel)					
Price \ bushel/Acre	-25%	-10%	Expected	+10%	+25%
	41	50	55	61	69
\$6.00	-\$57.08	-\$7.58	\$25.42	\$58.42	\$107.92
\$6.25	-\$46.77	\$4.80	\$39.17	\$73.55	\$125.11
\$6.50	-\$36.45	\$17.17	\$52.92	\$88.67	\$142.30
\$6.75	-\$26.14	\$29.55	\$66.67	\$103.80	\$159.48
\$7.00	-\$15.83	\$41.92	\$80.42	\$118.92	\$176.67
\$7.25	-\$5.52	\$54.30	\$94.17	\$134.05	\$193.86
\$7.50	\$4.80	\$66.67	\$107.92	\$149.17	\$211.05

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)
Disk Harrow 32' with Tractor (180-199 hp) MFWD 190	16.3	1	0.08	0.60	\$ 1.97	\$ 5.72
Chisel Plow-Rigid 24' with Tractor (180-199 hp) MFWD 190	13.0	1	0.10	0.75	\$ 1.55	\$ 4.34
Grain Drill 15' with Tractor (180-199 hp) MFWD 190	8.0	1	0.16	1.23	\$ 3.47	\$ 9.78
Spray (Broadcast) 60' with Tractor (120-139 hp) 2WD 130	35.5	4	0.14	0.75	\$ 1.72	\$ 4.06
					\$ -	\$ -
					\$ -	\$ -
Total Preharvest Values			0.47	3.34	\$ 8.72	\$ 23.90

****Add ~\$3.70/ac in variable costs if you seed with spin spreader and disking it into the field as opposed to using a grain drill. Fixed costs would decrease by ~\$2/ac.

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	\$ 4.25	\$ 24.31
Grain Cart Wht/Sor 500 bu with Tractor (180-199 hp) MFWD 190	10.6	1	0.12	0.92	\$ 2.12	\$ 5.86
Total Harvest Values			0.28	3.03	\$ 6.37	\$ 30.17

*** 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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