

**WHEAT FOR GRAIN, CONVENTIONAL
GEORGIA, 2019/20**

Estimated Costs and Returns

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

Variable Costs	Unit	Amount	\$/Unit	Cost/Acre	\$/bushel	Your Farm
Seed	pounds	90	\$ 0.28	\$ 24.75	\$ 0.45	_____
Lime	ton	0.25	\$ 45.00	\$ 11.25	\$ 0.20	_____
Fertilizer						
<i>Nitrogen</i>	pounds	80	\$ 0.50	\$ 40.00	\$ 0.73	_____
<i>Phosphate</i>	pounds	40	\$ 0.38	\$ 15.20	\$ 0.28	_____
<i>Potash</i>	pounds	40	\$ 0.33	\$ 13.20	\$ 0.24	_____
Weed Control	acre	1	\$ 44.08	\$ 44.08	\$ 0.80	_____
Insect Control	acre	1	\$ 2.25	\$ 2.25	\$ 0.04	_____
Disease Control	acre	1	\$ 4.20	\$ 4.20	\$ 0.08	_____
Preharvest Machinery						
<i>Fuel</i>	gallon	3.7	\$ 2.35	\$ 8.66	\$ 0.16	_____
<i>Repairs and Maintenance</i>	acre	1	\$ 8.40	\$ 8.40	\$ 0.15	_____
Harvest Machinery						
<i>Fuel</i>	gallon	3.0	\$ 2.35	\$ 7.12	\$ 0.13	_____
<i>Repairs and Maintenance</i>	acre	1	\$ 5.62	\$ 5.62	\$ 0.10	_____
Labor	hours	0.7	\$ 13.25	\$ 9.89	\$ 0.18	_____
Irrigation*	applications		\$ 9.00	\$ -	\$ -	_____
Crop Insurance	acre	1	\$ 12.00	\$ 12.00	\$ 0.22	_____
Land Rent	acre	1	\$ -	\$ -	\$ -	_____
Interest on Operating Capital	percent	\$ 103.31	6.25%	\$ 6.46	\$ 0.12	_____
Drying - 2 Points	bushel	60	\$ 0.09	\$ 5.43	\$ 0.10	_____
Total Variable Costs:				\$ 218.51	\$ 3.97	
Fixed Costs						
Machinery Depreciation, Taxes, Insurance and Housing						
<i>Preharvest Machinery</i>	acre	1	\$ 22.98	\$ 22.98	\$ 0.42	_____
<i>Harvest Machinery</i>	acre	1	\$ 26.47	\$ 26.47	\$ 0.48	_____
<i>Irrigation</i>	acre	0	\$ 130.00	\$ -	\$ -	_____
General Overhead	% of VC	\$ 218.51	5%	\$ 10.93	\$ 0.20	_____
Management	% of VC	\$ 218.51	5%	\$ 10.93	\$ 0.20	_____
Owned Land Cost, Taxes, Cash Payment, etc.	acre	1	\$ -	\$ -	\$ -	_____
Other _____	acre	1	\$ -	\$ -	\$ -	_____
Total Fixed Costs				\$ 71.31	\$ 1.30	
Total Costs Excluding Land				\$ 289.81	\$ 5.27	
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.

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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
\$3.75	-\$63.82	-\$32.88	-\$12.26	\$8.37	\$39.30
\$4.00	-\$53.51	-\$20.51	\$1.49	\$23.49	\$56.49
\$4.25	-\$43.20	-\$8.13	\$15.24	\$38.62	\$73.68
\$4.50	-\$32.88	\$4.24	\$28.99	\$53.74	\$90.87
\$4.75	-\$22.57	\$16.62	\$42.74	\$68.87	\$108.05
\$5.00	-\$12.26	\$28.99	\$56.49	\$83.99	\$125.24
\$5.25	-\$1.95	\$41.37	\$70.24	\$99.12	\$142.43

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	\$ 1.77	\$ 5.13
Chisel Plow-Rigid 24' with Tractor (180-199 hp) MFWD 190	13.0	1	0.10	0.75	\$ 1.29	\$ 3.62
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	4	0.14	1.10	\$ 2.24	\$ 5.49
					\$ -	\$ -
					\$ -	\$ -
Total Preharvest Values			0.47	3.69	\$ 8.40	\$ 22.98

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.

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