

**WHEAT FOR GRAIN, INTENSIVE MANAGEMENT
GEORGIA, 2020/21**

Estimated Costs and Returns

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

Variable Costs	Unit	Amount	\$/Unit	Cost/Acre	\$/bushel	Your Farm
Treated Seed	pounds	125	\$ 0.52	\$ 65.00	\$ 0.87	_____
Lime	ton	0.25	\$ 50.00	\$ 12.50	\$ 0.17	_____
Fertilizer						
<i>Nitrogen</i>	pounds	120	\$ 0.90	\$ 108.00	\$ 1.44	_____
<i>Phosphate</i>	pounds	50	\$ 0.70	\$ 35.00	\$ 0.47	_____
<i>Potash</i>	pounds	60	\$ 0.70	\$ 42.00	\$ 0.56	_____
Weed Control	acre	1	\$ 27.82	\$ 27.82	\$ 0.37	_____
Insect Control	acre	1	\$ 1.43	\$ 1.43	\$ 0.02	_____
Disease Control***	acre	1	\$ 12.30	\$ 12.30	\$ 0.16	_____
Disease Spray by Air	acre	1	\$ 8.00	\$ 8.00	\$ 0.11	_____
Preharvest Machinery						
<i>Fuel</i>	gallon	7.0	\$ 3.10	\$ 21.62	\$ 0.29	_____
<i>Repairs and Maintenance</i>	acre	1	\$ 16.21	\$ 16.21	\$ 0.22	_____
Harvest Machinery						
<i>Fuel</i>	gallon	3.0	\$ 3.10	\$ 9.39	\$ 0.13	_____
<i>Repairs and Maintenance</i>	acre	1	\$ 6.37	\$ 6.37	\$ 0.08	_____
Labor	hours	1.2	\$ 13.50	\$ 16.50	\$ 0.22	_____
Irrigation*	applications		\$ 9.25	\$ -	\$ -	_____
Crop Insurance	acre	1	\$ 17.00	\$ 17.00	\$ 0.23	_____
Land Rent	acre	1	\$ -	\$ -	\$ -	_____
Interest on Operating Capital	percent	\$ 199.57	5.50%	\$ 10.98	\$ 0.15	_____
Drying - 2 Points	bushel	82	\$ 0.09	\$ 7.41	\$ 0.10	_____
Total Variable Costs:				\$ 417.52	\$ 5.57	_____
Fixed Costs						
Machinery Depreciation, Taxes, Insurance and Housing						
<i>Preharvest Machinery</i>	acre	1	\$ 46.50	\$ 46.50	\$ 0.62	_____
<i>Harvest Machinery</i>	acre	1	\$ 30.17	\$ 30.17	\$ 0.40	_____
<i>Irrigation</i>	acre	1	\$ 135.00	\$ 135.00	\$ 1.80	_____
General Overhead	% of VC	\$ 417.52	5%	\$ 20.88	\$ 0.28	_____
Management	% of VC	\$ 417.52	5%	\$ 20.88	\$ 0.28	_____
Owned Land Cost, Taxes, Cash Payment, etc.	acre	1	\$ -	\$ -	\$ -	_____
Other _____	acre	1	\$ -	\$ -	\$ -	_____
Total Fixed Costs				\$ 253.43	\$ 3.38	_____
Total Costs Excluding Land				\$ 670.95	\$ 8.95	_____
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 \$9/appl when diesel costs \$2/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

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

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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
\$6.00	-\$80.02	-\$12.52	\$32.48	\$77.48	\$144.98
\$6.25	-\$65.96	\$4.35	\$51.23	\$98.10	\$168.41
\$6.50	-\$51.90	\$21.23	\$69.98	\$118.73	\$191.85
\$6.75	-\$37.84	\$38.10	\$88.73	\$139.35	\$215.29
\$7.00	-\$23.77	\$54.98	\$107.48	\$159.98	\$238.73
\$7.25	-\$9.71	\$71.85	\$126.23	\$180.60	\$262.16
\$7.50	\$4.35	\$88.73	\$144.98	\$201.23	\$285.60

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	\$ 8.61	\$ 25.93
Disk Harrow 32' with Tractor (180-199 hp) MFWD 190	16.3	1	0.08	0.60	\$ 1.97	\$ 5.72
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	5	0.18	0.94	\$ 2.15	\$ 5.07
					\$ -	\$ -
					\$ -	\$ -
Total Preharvest Values			0.95	6.98	\$ 16.21	\$ 46.50

****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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