



### 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
\$	3.00	\$ (16.00)	\$ 8.75	\$ 25.25	\$ 41.75	\$ 66.50
\$	3.25	\$ (5.68)	\$ 21.13	\$ 39.00	\$ 56.88	\$ 83.69
\$	3.50	\$ 4.63	\$ 33.50	\$ 52.75	\$ 72.00	\$ 100.88
\$	3.75	\$ 14.94	\$ 45.88	\$ 66.50	\$ 87.13	\$ 118.07
\$	4.00	\$ 25.25	\$ 58.25	\$ 80.25	\$ 102.25	\$ 135.25

### 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	1.08	3.14	
Chisel Plow (Rigid) 24' with Tractor (180-199 hp)-MFWD 190	12.982	1.00	0.08	0.75	0.91	2.54	
Grain Drill 15' with Tractor (180-199 hp)-MFWD 190	7.955	1.00	0.13	1.23	2.24	6.28	
Spray (Broadcast) 60' with Tractor (120-139 hp)-2WD 130	35.455	1.00	0.03	0.19	0.24	0.59	
<b>Total Preharvest Fuel, Repairs, Fixed Costs, &amp; Labor</b>				<b>0.292 \$</b>	<b>2.77 \$</b>	<b>4.47 \$</b>	<b>12.55</b>

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 (200-249 hp) 240hp	9.015	1.000	0.111	1.37	2.08	13.16	
Corn Grain Cart 8R36500 bu with Tractor (120-139 hp)-2WD 130	10.642	1.000	0.094	0.63	0.56	2.34	
<b>Total Harvest Fuel, Repairs, Fixed Costs, and Labor</b>				<b>0.205 \$</b>	<b>2.00 \$</b>	<b>2.64 \$</b>	<b>15.50</b>

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

