

Sorghum - Conventional 2021

ESTIMATED COSTS AND RETURNS PER ACRE, 2021
60 BUSHEL YIELD

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
SORGHUM	Soybean BU.	60.00	\$4.07	\$244.20	_____
TOTAL RECEIPTS:				\$244.20	_____
2. VARIABLE COSTS					
SEED	THOU.	100.00	\$0.150	\$15.00	_____
FERTILIZER					
NITROGEN 30%	LBS	166	\$0.14	\$23.24	_____
PHOSPHATE (0-46-0)	LBS	70	\$0.26	\$18.31	_____
POTASH (0-0-60)	LBS	30	\$0.21	\$6.30	_____
LIME (PRORATED)	TON	0.33	\$54.50	\$17.99	_____
HERBICIDES	ACRE	1.00	\$19.43	\$19.43	_____
INSECTICIDES	ACRE	1.00	\$5.17	\$5.17	_____
DRYING (3 POINTS)	BU.	60.00	\$0.30	\$18.00	_____
HAULING	BU.	60.00	\$0.26	\$15.60	_____
TRACTOR/MACHINERY	ACRE	1.00	\$26.08	\$26.08	_____
LABOR	HRS	1.73	\$12.67	\$21.92	_____
INTEREST ON OP. CAP.	DOL.	\$63.18	2.7%	\$1.72	_____
TOTAL VARIABLE COSTS:				\$188.76	_____
3. INCOME ABOVE VARIABLE COSTS:				\$55.44	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$61.85	\$61.85	_____
TOTAL FIXED COSTS:				\$61.85	_____
5. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$188.76	7.0%	\$13.21	_____
TOTAL OTHER COSTS:				\$13.21	_____
6. TOTAL COSTS:				\$263.82	_____
7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:				-\$19.62	_____

<u>BREAK-EVEN YIELD</u>		<u>BREAK-EVEN PRICE</u>	
VARIABLE COSTS	44 BU.	VARIABLE COSTS	\$3.15
TOTAL COSTS	66 BU.	TOTAL COSTS	\$4.40

* PLEASE NOTE: THIS BUDGET IS FOR PLANNING PURPOSES ONLY AND DOES NOT FACTOR IN THE COST OF LAND RENT

SORGHUM FOR GRAIN - CONVENTIONAL TILLAGE						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 85 BUSHEL CORN NO-TILL						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
3,4,5	HEAVY DISK 14'	1.00	0.17	0.15	\$3.68	\$4.97
3,4,5	TANDOM LIGHT DISK 20'	1.00	0.08	0.07	\$3.81	\$5.15
4	PLANTER 12-ROW	1.00	0.11	0.10	\$5.13	\$16.25
4	HIBOY 90'	3.00	0.10	0.09	\$2.01	\$21.54
9	COMBINE W/ HEADER 24'	1.00	0.17	0.15	\$4.54	\$10.38
9	GRAIN CART 1100	1.00	0.14	0.13	\$6.91	\$3.56
PER ACRE TOTALS FOR SELECTED OPERATIONS			0.77	0.69	\$26.08	\$61.85
UNALLOCATED LABOR(HRS./AC.)			0.96			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES					
YIELD	----- PRICE (\$/bu.) -----				
BU.	\$3.66	\$3.87	\$4.07	\$4.27	\$4.48
48	-\$7.20	\$2.88	\$12.48	\$22.08	\$32.16
54	\$11.30	\$22.64	\$33.44	\$44.24	\$55.58
60	\$29.79	\$42.39	\$54.39	\$66.39	\$78.99
66	\$48.29	\$62.15	\$75.35	\$88.55	\$102.41
72	\$66.78	\$81.90	\$96.30	\$110.70	\$125.82

CHEMICAL USE ASSUMPTIONS FOR SORGHUM					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES:					
s-metolachlor+atrazine (Bicep)	QT	1.60	\$8.06	\$12.89	MAY
2,4-D	PT	0.75	\$1.82	\$1.37	JUN
INSECTICIDES:					
lambda-cyhalothrin (Warrior T)	OZ	1.50	\$3.45	\$5.17	JUL
TOTAL:				\$19.43	

Prepared by: Derek Washburn, Ashley Wollett North Carolina State University, Dept. Agricultural and Resource Economics