CLEMSON COOPERATIVE EXTENSION

Last revised: 1/15/2016

GRAIN SORGHUM - CONVENTIONAL TILLAGE

ESTIMATED COSTS AND RETURNS PER ACRE
80 BUSHEL YIELD, HIGH LEVEL OF MANAGEMENT

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
GRAIN SORGHUM	BU.	80.00	$4.20	$336.00	
TOTAL RECEIPTS:				**$336.00**	**$0.00**
2. VARIABLE COSTS					
SEED	LBS	8.00	$1.80	$14.40	
FERTILIZER					
NITROGEN	LBS	100.00	$0.77	$77.00	
PHOSPHATE	LBS	35.00	$0.49	$17.15	
POTASH	LBS	50.00	$0.33	$16.50	
LIME (PRORATED)	TON	0.50	$45.00	$22.50	
HERBICIDES	ACRE	1.00	$24.19	$24.19	
INSECTICIDES	ACRE	1.00	$5.27	$5.27	
DRYING (3 POINTS)	BU.	84.66	$0.25	$21.17	
HAULING	BU.	80.00	$0.70	$56.00	
TRACTOR/MACHINERY	ACRE	1.00	$32.48	$32.48	
LABOR	HRS	3.11	$9.50	$29.55	
INTEREST ON OP. CAP.	DOL.	$158.11	5.0%	$7.91	
TOTAL VARIABLE COSTS:				**$324.12**	**$0.00**
3. INCOME ABOVE VARIABLE COSTS:				**$11.88**	**$0.00**
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	$48.87	$48.87	
TOTAL FIXED COSTS:				**$48.87**	**$0.00**
5. OTHER COSTS					
LAND RENT	ACRE	1.00	$60.00	$60.00	
GENERAL OVERHEAD	DOL.	$324.12	7.0%	$22.69	
TOTAL OTHER COSTS:				**$82.69**	**$0.00**
6. TOTAL COSTS:				**$455.68**	**$0.00**
7. NET RETURNS TO RISK AND MANAGEMENT:				**-$119.68**	**$0.00**

BREAK-EVEN YIELD			**BREAK-EVEN PRICE**	
VARIABLE COSTS	76	BU.	VARIABLE COSTS	$4.05
TOTAL COSTS	118	BU.	TOTAL COSTS	$5.70

* PLEASE NOTE: THIS BUDGET IS FOR PLANNING PURPOSES ONLY.

GRAIN SORGHUM - CONVENTIONAL TILLAGE

PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 80 BUSHEL GRAIN SORGHUM

MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
2	HEAVY DISK 16'	2.00	0.26	0.24	$5.94	$7.38
3	SUBSOILER-PLANTER W/SPRAYER 6-F	1.00	0.20	0.18	$6.56	$8.36
4&5	HERBICIDE APPLICATOR 16'	2.00	0.24	0.22	$2.48	$2.32
5	FERTILIZER SPREADER	1.00	0.13	0.12	$1.62	$4.03
5	CULTIVATOR 6-ROW	1.00	0.19	0.17	$1.85	$1.72
9	COMBINE W/ HEADER	1.00	0.36	0.33	$14.03	$25.06
PER ACRE TOTALS FOR SELECTED OPERATIONS			1.38	1.26	$32.48	$48.87
UNALLOCATED LABOR(HRS./AC.)			1.73			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES

YIELD	PRICE ($/bu.)				
BU.	$3.78	$3.99	$4.20	$4.41	$4.62
72	-$44.24	-$29.12	-$14.00	$1.12	$16.24
76	-$32.98	-$17.02	-$1.06	$14.90	$30.86
80	-$21.72	-$4.92	$11.88	$28.68	$45.48
84	-$10.45	$7.19	$24.83	$42.47	$60.11
88	$0.81	$19.29	$37.77	$56.25	$74.73

CHEMICAL USE ASSUMPTIONS FOR 100 BUSHEL GRAIN SORGHUM

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES:					
carfentrazone (Aim)	OZ	1.00	$5.91	$5.91	MAY
s-metolachlor+atrazine (Bicep)	QT	1.30	$10.63	$13.81	MAR
atrazine (Aatrex)	QT	1.00	$4.47	$4.47	APR
INSECTICIDES:					
lambda-cyhalothrin (Karate-Z)	OZ	1.90	$2.77	$5.27	MAR
TOTAL:				$29.46	

The above listed chemicals are examples and do not imply exclusive recommendations by Clemson University. The "Pest Management Handbook" must be consulted. Production assumptions provided by David H Gunter, Extension Specialist, 843-662-3526, dgunter@clemson.edu

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