

CLEMSON COOPERATIVE EXTENSION

Last revised: 02/06/2017

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	\$3.83	\$306.00	_____
TOTAL RECEIPTS:				\$306.00	=====
2. VARIABLE COSTS					
SEED	LBS	8.00	\$1.80	\$14.40	_____
FERTILIZER					
NITROGEN	LBS	100.00	\$0.52	\$52.00	_____
PHOSPHATE	LBS	35.00	\$0.51	\$17.85	_____
POTASH	LBS	50.00	\$0.40	\$20.00	_____
LIME (PRORATED)	TON	0.50	\$47.50	\$23.75	_____
HERBICIDES	ACRE	1.00	\$24.19	\$24.19	_____
INSECTICIDES	ACRE	1.00	\$22.98	\$22.98	_____
DRYING (3 POINTS)	BU.	84.66	\$0.25	\$21.17	_____
HAULING	BU.	80.00	\$0.35	\$28.00	_____
CROP INSURANCE	ACRE	1.00	\$15.00	\$15.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$44.00	\$44.00	_____
LABOR	HRS	1.91	\$11.25	\$21.49	_____
INTEREST ON OP. CAP.	DOL.	\$152.42	5.0%	\$7.62	_____
TOTAL VARIABLE COSTS:				\$312.45	=====
3. INCOME ABOVE VARIABLE COSTS:				-\$6.45	=====
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$84.86	\$84.86	_____
TOTAL FIXED COSTS:				\$84.86	=====
5. OTHER COSTS					
LAND RENT	ACRE	1.00	\$60.00	\$60.00	_____
GENERAL OVERHEAD	DOL.	\$312.45	7.0%	\$21.87	_____
TOTAL OTHER COSTS:				\$81.87	=====
6. TOTAL COSTS:				\$479.18	=====
7. NET RETURNS TO RISK AND MANAGEMENT:				-\$173.18	=====
<u>BREAK-EVEN YIELD</u>					
VARIABLE COSTS	82	BU.	<u>BREAK-EVEN PRICE</u>		
TOTAL COSTS	135	BU.	VARIABLE COSTS		\$3.91
			TOTAL COSTS		\$5.99

* 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	SELF PROPELLED SPRAYER 90'	3.00	0.03	0.03	\$2.37	\$2.94
9	COMBINE W/ HEADER	1.00	0.36	0.33	\$29.13	\$66.18
PER ACRE TOTALS FOR SELECTED OPERATIONS			0.85	0.78	\$44.00	\$84.86
UNALLOCATED LABOR(HRS./AC.)			1.06			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD	PRICE (\$/bu.)					
BU.	\$3.44	\$3.63	\$3.83	\$4.02	\$4.21	
72	-\$59.85	-\$46.17	-\$32.13	-\$18.09	-\$4.41	
76	-\$48.55	-\$34.11	-\$19.29	-\$4.47	\$9.97	
80	-\$37.25	-\$22.05	-\$6.45	\$9.15	\$24.35	
84	-\$25.94	-\$9.98	\$6.40	\$22.78	\$38.74	
88	-\$14.64	\$2.08	\$19.24	\$36.40	\$53.12	

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
Sivanto	OZ	7.00	\$2.53	\$17.71	JUL
TOTAL:				\$47.17	

The above listed chemicals are examples and do not imply exclusive recommendations by Clemson University. Contact your local Extension Agent and consult the South Carolina Pest Management Handbook for more information.

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