

# CLEMSON

## EXTENSION

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### SORGHUM FOR SILAGE

ESTIMATED COSTS AND RETURNS PER ACRE, 2008/2009  
12 TON YIELD

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
<b>1. GROSS RECEIPTS</b>					
SORGHUM	TON	12.00	\$35.00	\$420.00	_____
TOTAL RECEIPTS:				<b>\$420.00</b>	_____
<b>2. VARIABLE COSTS</b>					
SEED	BU.	8.00	\$16.76	\$134.08	_____
FERTILIZER					
NITROGEN	LBS	25.00	\$0.59	\$14.75	_____
PHOSPHATE	LBS	50.00	\$0.52	\$26.00	_____
POTASH	LBS	50.00	\$0.26	\$13.00	_____
LIQ. NITROGEN (SPREAD)	LBS	100.00	\$0.49	\$49.00	_____
LIME (PRORATED)	TON	0.33	\$52.50	\$17.33	_____
HERBICIDES	ACRE	1.00	\$1.69	\$1.69	_____
CUSTOM SPREAD	ACRE	1.00	\$8.00	\$8.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$52.08	\$52.08	_____
LABOR	HRS	5.24	\$6.50	\$34.06	_____
INTEREST ON OP. CAP.	DOL.	\$157.97	9.0%	\$14.22	_____
TOTAL VARIABLE COSTS:				<b>\$364.21</b>	_____
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				<b>\$55.79</b>	_____
<b>4. FIXED COSTS</b>					
TRACTOR/MACHINERY	ACRE	1.00	\$69.56	\$69.56	_____
TOTAL FIXED COSTS:				<b>\$69.56</b>	_____
<b>5. OTHER COSTS</b>					
LAND RENT	ACRE	1.00	\$25.00	\$25.00	_____
GENERAL OVERHEAD	DOL.	\$364.21	9.0%	\$32.78	_____
TOTAL OTHER COSTS:				<b>\$57.78</b>	_____
<b>6. TOTAL COSTS:</b>				<b>\$491.55</b>	_____
<b>7. NET RETURNS TO RISK AND MANAGEMENT:</b>				<b>-\$71.55</b>	_____

#### BREAK-EVEN YIELD

VARIABLE COSTS 10.41 TON  
TOTAL COSTS 14.04 TON

#### BREAK-EVEN PRICE

VARIABLE COSTS \$30.35  
TOTAL COSTS \$40.96

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

\*\* THIS BUDGET DOES NOT INCLUDE THE COST OF STORAGE AND HANDLING REQUIRED TO MAKE SILAGE.

\*\*\* LIME, PHOSPHATE AND POTASH RATES SHOULD BE BASED ON A SOIL TEST.

SORGHUM FOR SILAGE						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR SORGHUM SILAGE						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
2	HEAVY DISK 14'	1.00	0.17	0.15	\$3.98	\$4.14
3	SUBSOILER-PLANTER 6-ROW	1.00	0.20	0.18	\$7.20	\$8.54
3	TRACTOR MTD SPRAYER	1.00	0.18	0.16	\$1.69	\$1.74
8	SILAGE CHOPPER & WAGON	1.00	0.63	0.57	\$22.89	\$38.42
8	SILAGE WAGON	1.00	0.63	0.57	\$11.46	\$12.08
8	SILAGE BLOWER	1.00	0.52	0.47	\$4.86	\$4.64
PER ACRE TOTALS FOR SELECTED OPERATIONS			2.33	2.10	\$52.08	\$69.56
UNALLOCATED LABOR(HRS./AC.)			2.91			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES					
YIELD	PRICE (\$/ton)				
TON	\$31.50	\$33.25	\$35.00	\$36.75	\$38.50
10.80	-\$24.01	-\$5.11	\$13.79	\$32.69	\$51.59
11.40	-\$5.11	\$14.84	\$34.79	\$54.74	\$74.69
12.00	\$13.79	\$34.79	\$55.79	\$76.79	\$97.79
12.60	\$32.69	\$54.74	\$76.79	\$98.84	\$120.89
13.20	\$51.59	\$74.69	\$97.79	\$120.89	\$143.99

CHEMICAL USE ASSUMPTIONS FOR SORGHUM SILAGE					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES:					
2,4-D	PT	1.00	\$1.69	\$1.69	MAR
TOTAL:				\$1.69	

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 John Andrae, Extension Specialist, 864-656-3504, jandrae@clemson.edu.

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