

# CLEMSON COOPERATIVE EXTENSION

Last revised: 1/15/2016

## SMALL GRAIN FOR SILAGE

ESTIMATED COSTS AND RETURNS PER ACRE  
10 TON YIELD

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
<b>1. GROSS RECEIPTS</b>					
SMALL GRAIN	TON	10.00	\$35.00	\$350.00	_____
TOTAL RECEIPTS:				<b>\$350.00</b>	<b>\$0.00</b>
<b>2. VARIABLE COSTS</b>					
SEED (WHEAT)	BU.	2.00	\$17.25	\$34.50	_____
FERTILIZER					
NITROGEN	LBS	30.00	\$0.77	\$23.10	_____
PHOSPHATE	LBS	60.00	\$0.49	\$29.40	_____
POTASH	LBS	90.00	\$0.33	\$29.70	_____
LIQ. NITROGEN (SPREAD)	LBS	60.00	\$0.40	\$24.00	_____
LIME (PRORATED)	TON	0.33	\$45.00	\$14.85	_____
HERBICIDES	ACRE	1.00	\$8.88	\$8.88	_____
CUSTOM SPREAD	ACRE	1.00	\$10.00	\$10.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$45.63	\$45.63	_____
LABOR	HRS	6.50	\$9.50	\$61.75	_____
INTEREST ON OP. CAP.	DOL.	\$140.91	5.0%	\$7.05	_____
TOTAL VARIABLE COSTS:				<b>\$288.86</b>	<b>\$0.00</b>
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				<b>\$61.14</b>	<b>\$0.00</b>
<b>4. FIXED COSTS</b>					
TRACTOR/MACHINERY	ACRE	1.00	\$56.14	\$56.14	_____
TOTAL FIXED COSTS:				<b>\$56.14</b>	<b>\$0.00</b>
<b>5. OTHER COSTS</b>					
LAND RENT	ACRE	1.00	\$40.00	\$40.00	_____
GENERAL OVERHEAD	DOL.	\$288.86	7.0%	\$20.22	_____
TOTAL OTHER COSTS:				<b>\$60.22</b>	<b>\$0.00</b>
<b>6. TOTAL COSTS:</b>				<b>\$405.22</b>	<b>\$0.00</b>
<b>7. NET RETURNS TO RISK AND MANAGEMENT:</b>				<b>-\$55.22</b>	<b>\$0.00</b>

<b>BREAK-EVEN YIELD</b>		<b>BREAK-EVEN PRICE</b>	
VARIABLE COSTS	8.25 TON	VARIABLE COSTS	\$28.89
TOTAL COSTS	11.58 TON	TOTAL COSTS	\$40.52

\* 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.

SMALL GRAIN FOR SILAGE						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR SMALL GRAIN SILAGE						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
9	HEAVY DISK 16'	2.00	0.26	0.24	\$5.94	\$7.38
9	GRAIN DRILL 16'	1.00	0.14	0.13	\$2.62	\$3.40
1&2	HERBICIDE APPLICATOR 16'	2.00	0.24	0.22	\$2.48	\$2.32
5	FORAGE HARVESTER	1.00	0.62	0.56	\$17.10	\$21.36
5	SILAGE WAGON	1.00	0.63	0.57	\$9.46	\$11.42
5	SILAGE BLOWER	1.00	0.52	0.47	\$3.86	\$4.22
5	DUMP TRUCK 12 TON	1.00	0.48	0.44	\$4.17	\$6.04
PER ACRE TOTALS FOR SELECTED OPERATIONS			2.89	2.63	\$45.63	\$56.14
UNALLOCATED LABOR(HRS./AC.)			3.61			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES					
YIELD	PRICE (\$/ton)				
TON	\$31.50	\$33.25	\$35.00	\$36.75	\$38.50
9.00	-\$5.36	\$10.39	\$26.14	\$41.89	\$57.64
9.50	\$10.39	\$27.02	\$43.64	\$60.27	\$76.89
10.00	\$26.14	\$43.64	\$61.14	\$78.64	\$96.14
10.50	\$41.89	\$60.27	\$78.64	\$97.02	\$115.39
11.00	\$57.64	\$76.89	\$96.14	\$115.39	\$134.64

CHEMICAL USE ASSUMPTIONS FOR SMALL GRAIN SILAGE					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES					
thifensulfuron+tribenuron (Harmony GT 75DF)	OZ	0.50	\$13.50	\$6.75	JAN
2,4-D	PT	1.00	\$2.13	\$2.13	FEB
TOTAL:				\$8.88	

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 ay Crouch, Extension Agent, 803-276-1091 ext. 113, alfredc@clemson.edu.

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