

CLEMSON COOPERATIVE EXTENSION

Last revised: 1/15/2016

SMALL GRAIN FOR HAY					
ESTIMATED COSTS AND RETURNS PER ACRE					
2 TON YIELD (800 LB - ROUND BALE)					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
SMALL GRAIN	TON	2.00	\$120.00	\$240.00	_____
TOTAL RECEIPTS:				\$240.00	\$0.00
2. VARIABLE COSTS					
SEED (OATS)	BU.	3.00	\$9.75	\$29.25	_____
FERTILIZER					
NITROGEN	LBS	40.00	\$0.77	\$30.80	_____
PHOSPHATE	LBS	60.00	\$0.49	\$29.40	_____
POTASH	LBS	60.00	\$0.33	\$19.80	_____
LIQ. NITROGEN (SPREAD)	LBS	80.00	\$0.40	\$32.00	_____
LIME (PRORATED)	TON	0.33	\$45.00	\$14.85	_____
CUSTOM SPREAD	ACRE	1.00	\$10.00	\$10.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$25.36	\$25.36	_____
LABOR	HRS	5.04	\$9.50	\$47.88	_____
INTEREST ON OP. CAP.	DOL.	\$119.67	5.0%	\$5.98	_____
TOTAL VARIABLE COSTS:				\$245.32	\$0.00
3. INCOME ABOVE VARIABLE COSTS:				-\$5.32	\$0.00
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$35.82	\$35.82	_____
TOTAL FIXED COSTS:				\$35.82	\$0.00
5. OTHER COSTS					
LAND RENT	ACRE	1.00	\$40.00	\$40.00	_____
GENERAL OVERHEAD	DOL.	\$245.32	7.0%	\$17.17	_____
TOTAL OTHER COSTS:				\$57.17	\$0.00
6. TOTAL COSTS:				\$338.31	\$0.00
7. NET RETURNS TO RISK AND MANAGEMENT:				-\$98.31	\$0.00

<u>BREAK-EVEN YIELD</u>		<u>BREAK-EVEN PRICE</u>	
VARIABLE COSTS	2.04 TON	VARIABLE COSTS	\$122.66
TOTAL COSTS	2.82 TON	TOTAL COSTS	\$169.16

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

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

SMALL GRAIN FOR HAY						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR SMALL GRAIN HAY						
MONTH	OPERATION	TIMES	LABOR	MACHINE	VARIABLE	FIXED
		OVER	HOURS	HOURS	COSTS	COSTS
9	HEAVY DISK 14'	1.00	0.17	0.15	\$3.17	\$3.78
9	GRAIN DRILL 8'	1.00	0.32	0.29	\$3.73	\$4.47
4	MOWER-CONDITIONER	1.00	0.40	0.36	\$4.97	\$9.34
4	WINDROWER	1.00	0.19	0.17	\$1.33	\$1.60
4	TEDDER	1.00	0.28	0.25	\$2.00	\$3.23
4	ROUND BALER	1.00	0.42	0.38	\$6.86	\$8.98
4	FRONT-END LOADER	1.00	0.21	0.19	\$1.63	\$2.19
4	TRUCK 1.5 TON	1.00	0.25	0.23	\$1.67	\$2.23
PER ACRE TOTALS FOR SELECTED OPERATIONS			2.24	2.02	\$25.36	\$35.82
UNALLOCATED LABOR(HRS./AC.)			2.80			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD	PRICE (\$/ton.)					
	TON	\$108.00	\$114.00	\$120.00	\$126.00	\$132.00
1.80		-\$50.92	-\$40.12	-\$29.32	-\$18.52	-\$7.72
1.90		-\$40.12	-\$28.72	-\$17.32	-\$5.92	\$5.48
2.00		-\$29.32	-\$17.32	-\$5.32	\$6.68	\$18.68
2.10		-\$18.52	-\$5.92	\$6.68	\$19.28	\$31.88
2.20		-\$7.72	\$5.48	\$18.68	\$31.88	\$45.08

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