

CLEMSON

EXTENSION

Department of Applied Economics and Statistics

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COTTON - STRIP-TILL

ESTIMATED COSTS AND RETURNS PER ACRE, 2009/2010
750 POUND YIELD

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
COTTON LINT	LBS	750.00	\$0.6300	\$472.50	_____
COTTON SEED	LBS	1253.00	\$0.0900	\$112.77	_____
TOTAL RECEIPTS:				\$585.27	_____
2. VARIABLE COSTS					
SEED	LBS	10.00	\$1.60	\$16.00	_____
FERTILIZER					
NITROGEN	LBS	80.00	\$0.95	\$76.00	_____
PHOSPHATE	LBS	60.00	\$1.28	\$76.80	_____
POTASH	LBS	60.00	\$0.90	\$54.00	_____
BORON	LBS	0.50	\$1.25	\$0.63	_____
SULFUR	LBS	10.00	\$1.00	\$3.00	_____
LIME (PRORATED)	TON	0.33	\$51.00	\$16.83	_____
HERBICIDES	ACRE	1.00	\$31.97	\$31.97	_____
INSECTICIDES	ACRE	1.00	\$44.81	\$44.81	_____
GROWTH REG. & DEFOLIANTS	ACRE	1.00	\$15.53	\$15.53	_____
SCOUTING	ACRE	1.00	\$8.50	\$8.50	_____
AERIAL APPLICATION	APPL	3.00	\$6.00	\$18.00	_____
GINNING	LBS	750.00	\$0.12	\$90.00	_____
HAULING	ACRE	1.00	\$6.50	\$6.50	_____
CHECK-OFF FEE	ACRE	1.00	\$5.50	\$5.50	_____
BOLL WEEVIL ERADICATION	BALE	1.56	\$2.56	\$4.00	_____
CROP INSURANCE	ACRE	1.00	\$20.00	\$20.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$73.06	\$73.06	_____
LABOR	HRS	6.10	\$6.50	\$39.65	_____
INTEREST ON OP. CAP.	DOL.	\$217.57	9.0%	\$19.58	_____
TOTAL VARIABLE COSTS:				\$620.36	_____
3. INCOME ABOVE VARIABLE COSTS:				-\$35.09	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$86.39	\$86.39	_____
TOTAL FIXED COSTS:				\$86.39	_____
5. OTHER COSTS					
LAND RENT	ACRE	1.00	\$25.00	\$25.00	_____
GENERAL OVERHEAD	DOL.	\$620.36	9.0%	\$55.83	_____
TOTAL OTHER COSTS:				\$80.83	_____
6. TOTAL COSTS:				\$787.58	_____
7. NET RETURNS TO RISK AND MANAGEMENT:				-\$202.31	_____

BREAK-EVEN YIELD		BREAK-EVEN PRICE	
VARIABLE COSTS	804 LBS	VARIABLE COSTS	\$0.6768
TOTAL COSTS	1064 LBS	TOTAL COSTS	\$0.8997

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

COTTON - STRIP-TILL						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 750 LBS COTTON - STRIP-TILL						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
5	STRIP TILL RIG	1.00	0.34	0.31	\$5.92	\$9.87
5	TRACTOR MTD SPRAYER	5.00	0.88	0.80	\$8.55	\$9.05
6,7&9	HIBOY	4.00	0.26	0.24	\$7.96	\$15.20
10	COTTON PICKER 4-ROW	1.00	0.42	0.38	\$39.03	\$40.46
10	COTTON MODULE BUILDER	1.00	0.12	0.11	\$2.79	\$2.43
10	BOLL BUGGY	1.00	0.37	0.34	\$6.06	\$6.83
11	ROTARY MOWER 7'	1.00	0.32	0.29	\$2.75	\$2.55
PER ACRE TOTALS FOR SELECTED OPERATIONS			2.71	2.47	\$73.06	\$86.39
UNALLOCATED LABOR(HRS./AC.)			3.39			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD (LBS)		PRICE (\$/lbs.)				
LINT	SEED	\$0.5040	\$0.5670	\$0.6300	\$0.6930	\$0.7560
		\$0.0720	\$0.0810	\$0.0900	\$0.0990	\$0.1080
600	1002	-\$227.02	-\$180.20	-\$133.38	-\$86.56	-\$39.74
675	1127	-\$189.62	-\$136.94	-\$84.28	-\$31.61	\$21.06
750	1253	-\$152.14	-\$93.62	-\$35.09	\$23.44	\$81.96
825	1378	-\$114.74	-\$50.36	\$14.01	\$78.39	\$142.76
900	1503	-\$77.34	-\$7.12	\$63.11	\$133.34	\$203.56

CHEMICAL USE ASSUMPTIONS FOR 750 LBS COTTON - STRIP-TILL						
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH	
HERBICIDES						
pendimethalin (Prowl)	PT	2.40	\$2.54	\$6.11	MAR	
fluometuron (Cotoran)	QT	1.00	\$9.07	\$9.07	MAY	
pyrithiobac (Staple)	OZ	0.60	\$6.75	\$4.05	MAY	
MSMA	GAL	0.32	\$15.00	\$4.80	2X JUN	
prometryn (Caparol)	PT	2.40	\$3.31	\$7.94	2X JUN	
INSECTICIDES						
aldicarb (Temik)	LB	5.00	\$3.10	\$15.50	MAY	
acephate (Orthene)	OZ	3.00	\$0.61	\$1.82	MAY/JUN	
cyfluthrin (Baythroid)	OZ	10.00	\$1.74	\$17.38	4X JUL/AUG	
spinosad (Tracer)	OZ	2.00	\$5.05	\$10.11	JUL	
GROWTH REGULATOR & DEFOLIANTS						
mepiquat chloride (Pix)	OZ	16.00	\$0.22	\$3.56	2X JUN/JUL	
ethephon (Prep)	PT	1.33	\$4.34	\$5.78	SEP	
tribufos (Folex)	PT	1.00	\$6.19	\$6.19	SEP	
TOTAL:				\$92.31		

The above listed chemicals are examples and do not imply exclusive recommendations by Clemson University. The "Pest Management Handbook" must be consulted. Production assumptions by Michael A. Jones, Extension Specialist, (843) 669-1912, majones@clemson.edu.

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