

# CLEMSON

EXTENSION

Department of Applied Economics and Statistics

Phone: 864-656-3475



## COTTON - CONVENTIONAL TILLAGE, IRRIGATED

ESTIMATED COSTS AND RETURNS PER ACRE, 2009/2010  
1000 POUND YIELD, 100 ACRE CENTER PIVOT -- 6" OF WATER

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
<b>1. GROSS RECEIPTS</b>					
COTTON LINT	LBS	1000.00	\$0.6300	\$630.00	_____
COTTON SEED	LBS	1670.00	\$0.0900	\$150.30	_____
TOTAL RECEIPTS:				<b>\$780.30</b>	_____
<b>2. VARIABLE COSTS</b>					
SEED	LBS	10.00	\$1.60	\$16.00	_____
FERTILIZER					
NITROGEN	LBS	100.00	\$0.95	\$95.00	_____
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	\$10.00	_____
LIME (PRORATED)	TON	0.33	\$51.00	\$16.83	_____
HERBICIDES	ACRE	1.00	\$28.77	\$28.77	_____
INSECTICIDES	ACRE	1.00	\$44.81	\$44.81	_____
DEFOL. & GROWTH REGULATOR	ACRE	1.00	\$15.53	\$15.53	_____
SCOUTING	ACRE	1.00	\$8.50	\$8.50	_____
IRRIGATION, MACHINERY & LABOR	ACRE	1.00	\$55.15	\$55.15	_____
AERIAL APPLICATION	APPL	3.00	\$6.00	\$18.00	_____
GINNING	LBS	1000.00	\$0.12	\$120.00	_____
HAULING	ACRE	1.00	\$6.50	\$6.50	_____
CHECK-OFF FEE	ACRE	1.00	\$5.50	\$5.50	_____
BOLL WEEVIL ERADICATION	BALE	2.08	\$1.92	\$4.00	_____
CROP INSURANCE	ACRE	1.00	\$20.00	\$20.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$81.10	\$81.10	_____
LABOR	HRS	5.69	\$6.50	\$36.99	_____
INTEREST ON OP. CAP.	DOL.	\$260.56	9.0%	\$23.45	_____
TOTAL VARIABLE COSTS:				<b>\$737.56</b>	_____
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				<b>\$42.74</b>	_____
<b>4. FIXED COSTS</b>					
TRACTOR/MACHINERY	ACRE	1.00	\$91.78	\$91.78	_____
IRRIGATION	ACRE	1.00	\$105.66	\$105.66	_____
TOTAL FIXED COSTS:				<b>\$197.44</b>	_____
<b>5. OTHER COSTS</b>					
LAND RENT	ACRE	1.00	\$25.00	\$25.00	_____
GENERAL OVERHEAD	DOL.	\$737.56	9.0%	\$66.38	_____
TOTAL OTHER COSTS:				<b>\$91.38</b>	_____
<b>6. TOTAL COSTS:</b>				<b>\$1,026.38</b>	_____
<b>7. NET RETURNS TO RISK AND MANAGEMENT:</b>				<b>-\$246.08</b>	_____

### BREAK-EVEN YIELD

VARIABLE COSTS	935	LBS	<u>BREAK-EVEN PRICE</u>	VARIABLE COSTS	\$0.5873
TOTAL COSTS	1381	LBS	TOTAL COSTS		\$0.8761

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

COTTON - CONVENTIONAL TILLAGE, IRRIGATED						
PER ACRE MACHINERY AND LABOR REQUIREMENTS 1000 LBS COTTON - CONV. TILLAGE - IRR						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
3	LIGHT DISKING W/ HERBICIDE	1.00	0.17	0.15	\$3.37	\$3.47
3	SUBSOILER-BEDDER 8-ROW	1.00	0.13	0.12	\$5.32	\$5.49
5	DO-ALL FIELD CONDITIONER 8-ROW	1.00	0.10	0.09	\$2.47	\$2.08
5	PLANTER W/ SPRAYER 8-ROW	1.00	0.13	0.12	\$3.76	\$5.28
5&6	CULTIVATOR W/ HERBICIDE 8-ROW	3.00	0.33	0.30	\$5.88	\$6.18
5	TRACTOR MTD SPRAYER	1.00	0.18	0.16	\$1.71	\$1.81
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			2.53	2.30	\$81.10	\$91.78
UNALLOCATED LABOR(HRS./AC.)			3.16			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD (LBS)		PRICE (\$/lbs.)				
LINT ----->>		\$0.5040	\$0.5670	\$0.6300	\$0.6930	\$0.7560
SEED ----->>		\$0.0720	\$0.0810	\$0.0900	\$0.0990	\$0.1080
800	1336	-\$213.37	-\$150.94	-\$88.52	-\$26.10	\$36.33
900	1503	-\$163.34	-\$93.12	-\$22.89	\$47.34	\$117.56
1000	1670	-\$113.32	-\$35.29	\$42.74	\$120.77	\$198.80
1100	1837	-\$63.30	\$22.54	\$108.37	\$194.20	\$280.04
1200	2004	-\$13.27	\$80.36	\$174.00	\$267.64	\$361.27

CHEMICAL USE ASSUMPTIONS FOR 1000 LBS COTTON - CONV. TILLAGE - IRR						
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH	
<b>HERBICIDES</b>						
trifluralin (Treflan EC)	PT	1.50	\$1.94	\$2.91	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	
<b>INSECTICIDES</b>						
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	
<b>GROWTH REGULATOR &amp; DEFOLIANTS</b>						
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:				\$89.11		

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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