

Cotton, Conventional-2023

NC STATE
UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2023
900 POUND YIELD

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
COTTON LINT	LBS	900.00	\$0.81	\$729.00	_____
COTTON SEED*****	LBS	1503.00	\$0.15	\$225.45	_____
TOTAL RECEIPTS:				\$954.45	_____
2. VARIABLE COSTS					
SEED	THOU.	42.00	\$2.41	\$101.22	_____
FERTILIZER****					
NITROGEN (30% solution)	LBS	180.00	\$0.36	\$64.80	_____
PHOSPHATE (DAP 18-46-0)	LBS	65.00	\$0.56	\$36.40	_____
POTASH (0-0-60)	LBS	50.00	\$0.51	\$25.50	_____
BORON	LBS	3.00	\$1.50	\$4.50	_____
SULFUR	LBS	10.00	\$0.28	\$2.80	_____
LIME (PRORATED)	TON	0.33	\$57.00	\$18.81	_____
HERBICIDES	ACRE	1.00	\$62.08	\$62.08	_____
INSECTICIDES	ACRE	1.00	\$21.23	\$21.23	_____
GROWTH REG. & DEFOLIANTS	ACRE	1.00	\$37.07	\$37.07	_____
SCOUTING	ACRE	1.00	\$20.00	\$20.00	_____
GINNING*****	LBS	900.00	\$0.251	\$225.45	_____
CROP INSURANCE	ACRE	1.00	\$30.00	\$30.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$173.47	\$173.47	_____
LABOR	HRS	2.99	\$14.16	\$42.34	_____
INTEREST ON OP. CAP.	DOL.	\$295.11	8.0%	\$23.61	_____
TOTAL VARIABLE COSTS:				\$889.28	_____
3. INCOME ABOVE VARIABLE COSTS:				\$65.17	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$204.02	\$204.02	_____
TOTAL FIXED COSTS:				\$204.02	_____
5. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$889.28	7.0%	\$62.25	_____
TOTAL OTHER COSTS:				\$62.25	_____
6. TOTAL COSTS:				\$1,155.55	_____
7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:				-\$201.10	_____

<u>BREAK-EVEN YIELD</u>		<u>BREAK-EVEN PRICE</u>	
VARIABLE COSTS	820 LBS	VARIABLE COSTS	\$0.74
TOTAL COSTS	1154 LBS	TOTAL COSTS	\$1.03

* THIS BUDGET WAS DEVELOPED FOR PLANNING PURPOSES ONLY AND DOES NOT INCLUDE LAND RENT

**PRICES PAID TO FARMERS ARE SUBJECT TO CHANGE BASED ON MARKET CONDITIONS

*** LINT PRICE ASSUMES \$.55 CASH PRICE PLUS AN \$.11 LOAN DEFICIENCY PAYMENT.

****FERTILIZATION RATES ARE NOT A RECOMMENDATION BUT AN ASSUMPTION OF REALIZED COST BASED ON REMOVAL RATES

*****MOST GROWERS ARE GIVEN GINNING IN EXCHANGE FOR COTTON SEED, THIS BUDGET SHOWS SEED PRICE AND GINNING COST AS OFFSETTING

COTTON - CONVENTIONAL TILLAGE						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 830 LBS COTTON - CONV. TILLAGE						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
3	HEAVY DISK 20'	2.00	0.24	0.20	\$9.22	\$16.00
4	PLANTER 12-ROW	1.00	0.12	0.10	\$5.44	\$15.80
3 thru 9	HIBOY 90'	9.00	0.32	0.27	\$54.99	\$64.80
10	COTTON PICKER 6-ROW	1.00	0.24	0.20	\$90.91	\$91.84
10	BALE HAULER	1.00	0.41	0.34	\$12.91	\$15.58
PER ACRE TOTALS FOR SELECTED OPERATIONS			1.33	1.11	\$173.47	\$204.02
UNALLOCATED LABOR(HRS./AC.)			1.66			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD		PRICE (\$/bs.)				
LINT ----->>		\$0.65	\$0.73	\$0.81	\$0.89	\$0.97
SEED ----->>		\$0.150	\$0.150	\$0.150	\$0.150	\$0.150
540	902	-\$312.80	-\$269.60	-\$226.40	-\$183.20	-\$140.00
720	1202	-\$195.89	-\$138.29	-\$80.69	-\$23.09	\$34.51
900	1503	-\$78.83	-\$6.83	\$65.17	\$137.17	\$209.17
1080	1804	\$38.23	\$124.63	\$211.03	\$297.43	\$383.83
1260	2104	\$155.14	\$255.94	\$356.74	\$457.54	\$558.34

*NC STATE DOES NOT ENDORSE ANY COMPANY OR CHEMICAL NAMES ASSOCIATED TO ACTIVE INGREDIENTS
 **CHEMICALS LISTED ARE NOT A RECOMMENDATION FOR CHEMICAL USE BUT A REPRESENTATION OF COST ASSUMPTIONS ONLY

CHEMICAL USE ASSUMPTIONS FOR 830 LBS COTTON - CONV. TILLAGE						
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH	
**HERBICIDES						
glyphosate (Roundup ultra)	QT	2.00	\$5.63	\$11.25	2 X MAY, JUN	
s-metolachlor (Dual Magnum EC)	PT	1.00	\$10.78	\$10.78	MAY	
dicamba (Banvel)	PT	2.00	\$12.23	\$24.47	2 X MAY, JUN	
glufosinate	OZ	29.00	\$0.54	\$15.58	JUN	
**INSECTICIDES						
imidacloprid (Admire Pro)	OZ	1.70	\$1.31	\$2.23	MAY	
bifenthrin	OZ	2.50	\$1.03	\$2.58	JUL	
Transform (sulfoxaflor)	OZ	2.25	\$5.50	\$12.38	AUG	
acephate (Orthene)	OZ	8.00	\$0.51	\$4.04	AUG	
**GROWTH REGULATOR & DEFOLIANTS						
mepiquat chloride (Pix)	OZ	16.00	\$0.34	\$5.47	2X JUN, JUL	
ethephon+cyclanilide (Finish6)	QT	0.75	\$17.19	\$12.89	SEP	
tribufos (Folex)	OZ	12.00	\$0.53	\$6.33	SEP	
thidiazuron (FreeFall)	OZ	3.20	\$3.87	\$12.38	SEP	
TOTAL:				\$120.38		

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