

Cotton, Strip-Till -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.	44.00	\$2.41	\$106.04	_____
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	\$76.40	\$76.40	_____
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	\$82.99	\$82.99	_____
LABOR	HRS	3.71	\$14.16	\$52.53	_____
INTEREST ON OP. CAP.	DOL.	\$264.54	8.0%	\$21.16	_____
TOTAL VARIABLE COSTS:				\$825.68	_____
3. INCOME ABOVE VARIABLE COSTS:				\$128.77	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$125.13	\$125.13	_____
TOTAL FIXED COSTS:				\$125.13	_____
5. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$825.68	7.0%	\$57.80	_____
TOTAL OTHER COSTS:				\$57.80	_____
6. TOTAL COSTS:				\$1,008.61	_____
7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:				-\$54.16	_____

BREAK-EVEN YIELD

VARIABLE COSTS	741	LBS	<u>BREAK-EVEN PRICE</u>	VARIABLE COSTS	\$0.67
TOTAL COSTS	968	LBS		TOTAL COSTS	\$0.87

* 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 A LOCAL BASE PRICE PLUS FUTURES AT THE TIME OF PUBLICATION

****FERTILIZATION RATES ARE AN ASSUMPTION OF REALIZED COST BASED ON REMOVAL RATES AND NC RECOMMENDATIONS OF .09 LBS N/LB LINT

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

COTTON - CONSERVATION/STRIP TILLAGE						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 830 LBS COTTON - CONV. TILLAGE						
MONTH	OPERATION	TIMES	LABOR	MACHINE	VARIABLE	FIXED
		OVER	HOURS	HOURS	COSTS	COSTS
4	8 ROW STRIP TILL RIG W/ PLANTER	1.00	0.22	0.18	\$12.97	\$21.38
3 thru 9	TRACTOR MTD SPRAYER 90FT	10.00	0.36	0.30	\$13.60	\$41.60
10	COTTON PICKER 4-ROW W/ MODULE BL	1.00	0.46	0.38	\$30.23	\$30.54
10	BALE HAULER	1.00	0.83	0.69	\$26.19	\$31.61
PER ACRE TOTALS FOR SELECTED OPERATIONS			1.65	1.37	\$82.99	\$125.13
UNALLOCATED LABOR(HRS./AC.)			2.06			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD	PRICE (\$/lbs.)					
LINT ----->>	\$0.65	\$0.73	\$0.81	\$0.89	\$0.97	
SEED ----->>	\$0.150	\$0.150	\$0.150	\$0.150	\$0.150	
540	902	-\$249.20	-\$206.00	-\$162.80	-\$119.60	-\$76.40
720	1202	-\$132.29	-\$74.69	-\$17.09	\$40.51	\$98.11
900	1503	-\$15.23	\$56.77	\$128.77	\$200.77	\$272.77
1080	1804	\$101.83	\$188.23	\$274.63	\$361.03	\$447.43
1260	2104	\$218.74	\$319.54	\$420.34	\$521.14	\$621.94

*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 REPRESENT MID RANGE COST IN NC PER ACRE

CHEMICAL USE ASSUMPTIONS FOR 830 LBS COTTON - CONV. TILLAGE						
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH	
**HERBICIDES						
flumioxazin (Valor)	OZ	1.00	\$5.86	\$5.86		APR
2,4-D	PT	1.00	\$2.83	\$2.83		MAY
glyphosate (Roundup ultra)	QT	3.00	\$5.63	\$16.88		3X APR, MAY, JUN
s-metolachlor (Dual Magnum EC)	PT	1.00	\$10.78	\$10.78		MAY
dicamba (Banvel)	PT	2.00	\$12.23	\$24.47		JUN
glufosinate	OZ	29.00	\$0.54	\$15.58		JUN
**INSECTICIDES						
imidacloprid (Admire Pro)	OZ	1.70	\$1.31	\$2.23		MAY
Transform (sulfoxaflor)	OZ	2.25	\$5.50	\$12.38		JUL
bifenthrin	OZ	2.50	\$1.03	\$2.58		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:				\$134.70		

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