

Cotton, Strip-Till -2024

NC STATE
UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2024
900 POUND YIELD

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
COTTON LINT	LBS	900.00	\$0.79	\$711.00	_____
COTTON SEED*****	LBS	1503.00	\$0.09	\$135.27	_____
TOTAL RECEIPTS:				\$846.27	_____
2. VARIABLE COSTS					
SEED	LBS	44.00	\$2.77	\$121.88	_____
FERTILIZER****					
NITROGEN (30% solution)	LBS	180.00	\$0.15	\$27.00	_____
PHOSPHATE (DAP 18-46-0)	LBS	65.00	\$0.36	\$23.40	_____
POTASH (0-0-60)	LBS	50.00	\$0.46	\$23.00	_____
BORON	LBS	3.00	\$2.00	\$6.00	_____
SULFUR	LBS	10.00	\$0.40	\$4.00	_____
LIME (PRORATED)	TON	0.33	\$95.00	\$31.35	_____
HERBICIDES	ACRE	1.00	\$87.54	\$87.54	_____
INSECTICIDES	ACRE	1.00	\$31.32	\$31.32	_____
GROWTH REG. & DEFOLIANTS	ACRE	1.00	\$27.05	\$27.05	_____
SCOUTING	ACRE	1.00	\$20.00	\$20.00	_____
GINNING*****	LBS	900.00	\$0.150	\$135.00	_____
CROP INSURANCE	ACRE	1.00	\$30.00	\$30.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$146.76	\$146.76	_____
LABOR	HRS	3.71	\$14.91	\$55.32	_____
INTEREST ON OP. CAP.	DOL.	\$292.31	8.5%	\$24.85	_____
TOTAL VARIABLE COSTS:				\$794.47	_____
3. INCOME ABOVE VARIABLE COSTS:				\$51.80	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$249.48	\$249.48	_____
TOTAL FIXED COSTS:				\$249.48	_____
5. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$794.47	7.0%	\$55.61	_____
TOTAL OTHER COSTS:				\$55.61	_____
6. TOTAL COSTS:				\$1,099.56	_____
7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:				-\$253.29	_____

BREAK-EVEN YIELD

			<u>BREAK-EVEN PRICE</u>	
VARIABLE COSTS	834	LBS	VARIABLE COSTS	\$0.73
TOTAL COSTS	1225	LBS	TOTAL COSTS	\$1.07

* 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 FUTURE PRICES IN DECEMBER OF THE FOLLOWING YEAR

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

*****GINNING COSTS ARE ASSUMED TO BE EQUIVALENT TO PAID MARKET PRICE FOR COTTON SEED

COTTON - CONSERVATION/STRIP TILLAGE						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 900 LBS COTTON - STRIP TILLAGE						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
4	STRIP TILL RIG	1.00	0.11	0.09	\$7.78	\$21.00
3 thru 9	HIBOY 90'	10.00	0.24	0.20	\$44.40	\$80.00
10	COTTON PICKER 6-ROW	1.00	0.19	0.16	\$79.62	\$120.61
10	BALE HAULER	1.00	0.41	0.34	\$14.96	\$27.87
PER ACRE TOTALS FOR SELECTED OPERATIONS			0.84	0.70	\$146.76	\$249.48
UNALLOCATED LABOR(HRS./AC.)			1.05			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD		PRICE (\$/lbs.)				
LINT ----->>		\$0.63	\$0.71	\$0.79	\$0.87	\$0.95
SEED ----->>		\$0.090	\$0.090	\$0.090	\$0.090	\$0.090
540	902	-\$319.09	-\$275.89	-\$232.69	-\$189.49	-\$146.29
720	1202	-\$205.69	-\$148.09	-\$90.49	-\$32.89	\$24.71
900	1503	-\$92.20	-\$20.20	\$51.80	\$123.80	\$195.80
1080	1804	\$21.29	\$107.69	\$194.09	\$280.49	\$366.89
1260	2104	\$134.69	\$235.49	\$336.29	\$437.09	\$537.89

*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 900 LBS COTTON - STRIP TILLAGE						
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH	
**HERBICIDES						
flumioxazin (Valor)	OZ	1.00	\$3.85	\$3.85	APR	
2,4-D	PT	1.00	\$4.32	\$4.32	APR	
glyphosate (Roundup ultra)	QT	1.00	\$8.50	\$8.50	APR	
Fomasafen (Reflex)	PT	2.00	\$7.34	\$14.67	MAY	
glyphosate (Roundup ultra)	QT	1.00	\$8.50	\$8.50	MAY	
s-metolachlor (Dual Magnum EC)	PT	1.00	\$10.75	\$10.75	MAY	
dicamba (Xtendimax)	OZ	22.00	\$0.43	\$9.45	MAY	
glyphosate (Roundup ultra)	QT	1.00	\$8.50	\$8.50	JUN	
glufosinate (Liberty)	OZ	32.00	\$0.59	\$19.00	JUN	
**INSECTICIDES						
imidacloprid (Admire Pro)	OZ	1.70	\$2.29	\$3.89	MAY	
sulfoxaflor (Transform)	OZ	2.25	\$9.38	\$21.09	JUL	
bifenthrin	OZ	2.50	\$0.94	\$2.34	AUG	
acephate (Orthene)	OZ	8.00	\$0.50	\$4.00	AUG	
**GROWTH REGULATOR & DEFOLIANTS						
mepiquat chloride (Pix)	OZ	16.00	\$0.19	\$3.00	2X JUN, JUL	
ethephon+cyclanilide (Finish6)	QT	0.75	\$17.00	\$12.75	SEP	
tribufos (Folex)	OZ	12.00	\$0.68	\$8.20	SEP	
thidiazuron (FreeFall)	OZ	3.20	\$0.97	\$3.10	SEP	
TOTAL:				\$145.91		

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