

# Cotton, No-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
<b>1. GROSS RECEIPTS</b>					
COTTON LINT	LBS	900.00	\$0.79	\$711.00	_____
COTTON SEED*****	LBS	1503.00	\$0.09	\$135.27	_____
TOTAL RECEIPTS:				<b>\$846.27</b>	_____
<b>2. VARIABLE COSTS</b>					
SEED	LBS	46.00	\$2.77	\$127.42	_____
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	\$145.29	\$145.29	_____
LABOR	HRS	2.59	\$14.91	\$38.62	_____
INTEREST ON OP. CAP.	DOL.	286.00	8.5%	\$24.31	_____
TOTAL VARIABLE COSTS:				<b>\$781.30</b>	_____
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				<b>\$64.97</b>	_____
<b>4. FIXED COSTS</b>					
TRACTOR/MACHINERY	ACRE	1.00	\$248.78	\$248.78	_____
TOTAL FIXED COSTS:				<b>\$248.78</b>	_____
<b>5. OTHER COSTS</b>					
GENERAL OVERHEAD	DOL.	781.30	7.0%	\$54.69	_____
TOTAL OTHER COSTS:				<b>\$54.69</b>	_____
<b>6. TOTAL COSTS:</b>				<b>\$1,084.77</b>	_____
<b>7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:</b>				<b>-\$238.50</b>	_____

**BREAK-EVEN YIELD**

VARIABLE COSTS	818	LBS
TOTAL COSTS	1206	LBS

**BREAK-EVEN PRICE**

VARIABLE COSTS	\$0.72
TOTAL COSTS	\$1.06

\* 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 - NO-TILL**

**PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 900 LBS COTTON - NO TILLAGE**

MONTH	OPERATION	TIMES	LABOR	MACHINE	VARIABLE	FIXED
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	OVER	HOURS	HOURS	COSTS	COSTS
4 PLANTER NO-TILL 8-ROW	1.00	0.11	0.09	\$6.31	\$20.30
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		0.95	0.79	\$145.29	\$248.78
UNALLOCATED LABOR(HRS./AC.)		1.19			

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	-\$305.92	-\$262.72	-\$219.52	-\$176.32	-\$133.12
720	1202	-\$192.52	-\$134.92	-\$77.32	-\$19.72	\$37.88
900	1503	-\$79.03	-\$7.03	\$64.97	\$136.97	\$208.97
1080	1804	\$34.46	\$120.86	\$207.26	\$293.66	\$380.06
1260	2104	\$147.86	\$248.66	\$349.46	\$450.26	\$551.06

\*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 - NO TILLAGE						
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH	
<b>**HERBICIDES</b>						
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	
<b>**INSECTICIDES</b>						
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	
<b>**GROWTH REGULATOR &amp; DEFOLIANTS</b>						
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		



FERT:

<https://www.extension.org/sites/default/files/fertilization.pdf>

<http://content.ces.ncsu.edu/20688.pdf>

R.Y.E. - realistic yield expectations, best 3 of 5 year yield <http://yiel>

RATE: .09 X lbs of lint

lbs of N	needed	lbs of P
	54	81
	11.7	
	65.7	

NUM
7.0
34.0
38.0
36.0
44.0
37.1
40.0

EQUIP NUM
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65
7
6
124

CHEM NUM
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187
1
109
210
109
161
48
109
69
140
197
197
91
95
177
55
47

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<http://extension.uga.edu/publications/detail.cfm?number=C952>

