

Cotton, Conventional-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	42.00	\$2.77	\$116.34	_____
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	\$70.87	\$70.87	_____
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	\$150.67	\$150.67	_____
LABOR	HRS	2.99	\$14.91	\$44.58	_____
INTEREST ON OP. CAP.	DOL.	\$277.79	8.5%	\$23.61	_____
TOTAL VARIABLE COSTS:				\$764.19	_____
3. INCOME ABOVE VARIABLE COSTS:				\$82.08	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$272.77	\$272.77	_____
TOTAL FIXED COSTS:				\$272.77	_____
5. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$764.19	7.0%	\$53.49	_____
TOTAL OTHER COSTS:				\$53.49	_____
6. TOTAL COSTS:				\$1,090.45	_____
7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:				-\$244.18	_____

BREAK-EVEN YIELD

VARIABLE COSTS	796	LBS
TOTAL COSTS	1213	LBS

BREAK-EVEN PRICE

VARIABLE COSTS	\$0.70
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 NOT A RECOMMENDATION BUT AN ASSUMPTION OF REALIZED COST BASED ON REMOVAL RATES

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

COTTON - CONVENTIONAL TILLAGE

PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 900 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	\$10.78	\$28.76
4	PLANTER 8-ROW	1.00	0.13	0.11	\$5.35	\$23.53
3 thru 9	HIBOY 90'	9.00	0.22	0.18	\$39.96	\$72.00
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			1.19	0.99	\$150.67	\$272.77
UNALLOCATED LABOR(HRS./AC.)			1.49			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD		PRICE (\$/lbs.)				
LINT	SEED	\$0.63	\$0.71	\$0.79	\$0.87	\$0.95
		\$0.090	\$0.090	\$0.090	\$0.090	\$0.090
540	902	-\$288.81	-\$245.61	-\$202.41	-\$159.21	-\$116.01
720	1202	-\$175.41	-\$117.81	-\$60.21	-\$2.61	\$54.99
900	1503	-\$61.92	\$10.08	\$82.08	\$154.08	\$226.08
1080	1804	\$51.57	\$137.97	\$224.37	\$310.77	\$397.17
1260	2104	\$164.97	\$265.77	\$366.57	\$467.37	\$568.17

*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 900 LBS COTTON - CONV. TILLAGE					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
**HERBICIDES					
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
bifenthrin	OZ	2.50	\$0.94	\$2.34	JUL
sulfoxaflor (Transform)	OZ	2.25	\$9.38	\$21.09	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:				\$129.24	