

Corn, No-Till- 2024

NC STATE
UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2024
170 BUSHEL AVERAGE YIELD HISTORY*

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
CORN***	BU.	170.00	\$5.95	\$1,011.50	_____
TOTAL RECEIPTS:				\$1,011.50	_____
2. VARIABLE COSTS					
CORN SEED	THOU.	30.00	\$2.03	\$60.90	_____
FERTILIZER					
18-46-0 DAP	LBS	163.00	\$0.56	\$91.28	_____
UAN-32	LBS	388.00	\$0.64	\$248.32	_____
46% SUPERPHOSPHATE	LBS	0.00	\$0.46	\$0.00	_____
0-0-60 MURATE OF POTASH	LBS	74.00	\$0.51	\$37.74	_____
LIME SPREAD	TON	0.33	\$85.00	\$28.05	_____
HERBICIDES**	ACRE	1.00	\$39.27	\$39.27	_____
FUNGICIDES**	ACRE	1.00	\$0.00	\$0.00	_____
DRYING (3 POINTS)	BU.	170.00	\$0.20	\$34.00	_____
HAULING	BU.	170.00	\$0.60	\$102.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$82.72	\$82.72	_____
SOIL SAMPLE	ACRE	1.00	\$16.00	\$16.00	_____
LABOR	HRS	1.58	\$14.91	\$23.56	_____
INTEREST ON OP. CAP.	DOL.	\$305.92	8.5%	\$26.00	_____
TOTAL VARIABLE COSTS:				\$789.84	_____
3. INCOME ABOVE VARIABLE COSTS:				\$221.66	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$143.27	\$143.27	_____
TOTAL FIXED COSTS:				\$143.27	_____
5. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$789.84	7.0%	\$55.29	_____
TOTAL OTHER COSTS:				\$55.29	_____
6. TOTAL COSTS:				\$988.40	_____
7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:				\$23.10	_____

BREAK-EVEN YIELD

VARIABLE COSTS	133	BU.	<u>BREAK-EVEN PRICE</u>	VARIABLE COSTS	\$4.65
TOTAL COSTS	166	BU.		TOTAL COSTS	\$5.81

-THIS BUDGET WAS DEVELOPED FOR PLANNING PURPOSES ONLY AND DOES NOT INCLUDE LAND RENT, EACH GROWER SHOULD CALCULATE THEIR COST BASED ON THEIR PRICE OF INPUTS, LOCATION, AND MAINTENANCE PRACTICES

- FERTILIZER AMOUNTS ARE BASED ON HISTORICAL DATA OF REMOVAL RATES FOR N, P2O5, K2O AND YEILD. GROWERS SHOULD SOI SAMPLE TO DETERMINE RATES OF APPLICATION FOR NUTRIENTS IN CORN

-IT IS ASSUMED THAT GROWERS ARE PRACTICING REFUGE PLANTING

CORN FOR GRAIN - NO TILL**PER ACRE MACHINERY AND LABOR REQUIREMENTS**

MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
2	PLANTER NO-TILL 12-ROW	1.00	0.11	0.09	\$8.72	\$30.46
2	HIBOY 90'	3.00	0.07	0.06	\$13.32	\$24.00
5	COMBINE W/ HEADER 20'	1.00	0.22	0.18	\$50.78	\$74.69
5	FERTILIZER SPREADER	1.00	0.14	0.12	\$2.27	\$7.22
5	GRAIN CART 1100	1.00	0.16	0.13	\$7.63	\$6.90
PER ACRE TOTALS FOR SELECTED OPERATIONS			0.70	0.58	\$82.72	\$143.27
UNALLOCATED LABOR(HRS./AC.)			0.88			

-EQUIPMENT SELECTION IN THESE BUDGETS VARY FOR COST REPRESENTATION OF VARIATION IN PRACTICES, ACTUAL EQUIPMENT SELECTION WILL VARY FROM FARM TO FARM AND REGION TO REGION

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES

YIELD	PRICE (\$/bu.)				
BU.	\$5.36	\$5.65	\$5.95	\$6.25	\$6.55
143	-\$3.43	\$38.04	\$80.94	\$123.84	\$166.74
156	\$55.70	\$100.94	\$147.74	\$194.54	\$241.34
170	\$119.38	\$168.68	\$219.68	\$270.68	\$321.68
184	\$183.05	\$236.41	\$291.61	\$346.81	\$402.01
197	\$242.18	\$299.31	\$358.41	\$417.51	\$476.61

*THE YIELD REPRESENTED IN THIS BUDGET IS NOT A FUNCTION OF THE MAINTENANCE PRACTICES LISTED. IT IS ASSUMED FARMERS WILL ADJUST THEIR MAINTENANCE PRACTICES BASED ON THEIR ABILITY TO MAXIMIZE PROFIT WITH THEIR GIVEN YIELD HISTORY .

**HERBICIDE COST ASSUMED NO RESISTANCE MANAGEMENT, GROWERS SHOULD ONLY APPLY PESTICIDES AS NEEDED

***CORN PRICES IN THIS BUDGET ARE BASED ON FUTURES PRICES + .85 BASIS FOR LOCAL CONTRACTS AS OF 12-5-2023

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