Corn, High Yield Threshold*- 2023

NC STATE UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2023 170 BUSHEL AVERAGE YIELD HISTORY

			PRICE OR	TOTAL	YOUR
	UNIT	QUANTITY	COST/UNIT	PER ACRE	FARM
. GROSS RECEIPTS					
CORN***	BU.	170.00	\$6.75	\$1,147.50	
CONN	60.	170.00	ψ0.75	ψι, ι τι .50	
TOTAL RECEIPTS:				\$1,147.50	
2. VARIABLE COSTS					
SEED	THOU.	33.00	\$3.000	\$99.00	
FERTILIZER					
18-46-0	LBS	160.00	\$0.56		
NITROGEN 30%	LBS	425.00	\$0.36	\$153.00	
PHOSPHATE (0-46-0)	LBS	0.00	\$0.46	\$0.00	
POTASH (0-0-60	LBS	75.00	\$0.51		
LIME (PRORATED)	TON	0.33	\$57.00	\$18.81	
HERBICIDES**	ACRE	1.00	\$53.40	\$53.40	
FUNGICIDES**	ACRE	1.00	\$17.11		
DRYING (3 POINTS)	BU.	170.00	\$0.20	\$34.00	
HAULING	BU.	170.00	\$0.60	\$102.00	
TRACTOR/MACHINERY	ACRE	1.00	\$84.70	\$84.70	
SCOUT	ACRE	1.00	\$16.00	\$16.00	
LABOR	HRS	1.67	\$14.16	\$23.65	
INTEREST ON OP. CAP.	DOL.	\$268.38	8.0%	\$21.47	
TOTAL VARIABLE COSTS:			=	\$750.99	
3. INCOME ABOVE VARIABLE COSTS:				\$396.51	
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$106.84	\$106.84	
TOTAL FIXED COSTS:			=	\$106.84	
5. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$750.99	7.0%	\$52.57	
TOTAL OTHER COSTS:			=	\$52.57	
6. TOTAL COSTS:				\$910.40	
				\$310. 1 0	
	NAGEMENT:			\$237.10	

-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 MAINTENECE PRACTICES

BU.

VARIABLE COSTS

TOTAL COSTS

\$4.42

\$5.36

111 BU.

135

VARIABLE COSTS

TOTAL COSTS

- FERTILIZER AMOUNTS ARE BASED ON HISTORICAL DATA OF REMOVAL RATES FOR N, P2O5, K20 AND YEILD. GROWERS SHOULD SOIL SAMPLE TO DETERMINE RATES OF APPLICATION FOR NUTRIENTS IN CORN

MONTH	OPERATION	TIMES	LABOR	MACHINE	VARIABLE	FIXED
		OVER	HOURS	HOURS	COSTS	COSTS
2	HEAVY DISK 20'	1.00	0.12	0.10	\$4.61	\$8.00
2	TANDOM LIGHT DISK 30'	1.00	0.08	0.07	\$4.95	\$6.84
5	PLANTER 16-ROW	1.00	0.14	0.12	\$7.13	\$21.50
5	HIBOY 90'	4.00	0.14	0.12	\$24.44	\$28.80
5	COMBINE LARGE W/ HEADER 30'	1.00	0.14	0.12	\$38.47	\$36.88
5	GRAIN CART 2000	1.00	0.12	0.10	\$5.10	\$4.82
PER AC	RE TOTALS FOR					
SELECTED OPERATIONS			0.74	0.63	\$84.70	\$106.84
UNALLOCATED LABOR(HRS./AC.)			0.93			

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

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES									
YIELD	PRICE (\$/bu.)								
BU.		\$6.08		\$6.41	\$6.75	\$7.09	\$7.43		
143		\$138.38		\$185.57	\$234.19	\$282.81	\$331.43		
156		\$206.87		\$258.35	\$311.39	\$364.43	\$417.47		
170		\$280.63		\$336.73	\$394.53	\$452.33	\$510.13		
184		\$354.38		\$415.10	\$477.66	\$540.22	\$602.78		
197		\$422.87		\$487.88	\$554.86	\$621.84	\$688.82		

*THE YEILD 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 YEILD HISTORY. **HERBICIDE COST ASSUME NO RESISTANCE MANAGEMENT, GROWERS SHOULD ONLY APPLY PESTICIDES AS NEEDED, SOME GROWER

MAY APPLY AN INSECTICIDE ON SOME YEARS AT A COST OF \$3-5\$ PER ACRE

***CORN PRICES IN THIS BUDGET ARE BASED ON FUTURES PRICES + .80 BASIS FOR LOCAL CONTRACTS AS OF 12-15-2022 Prepared by:Derek Washburn, NC State Department of Agricultural and Resource Economics

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