## Corn, Low Yield Threshold\*- 2023

NC STATE UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2023 120 BUSHEL AVERAGE YIELD HISTORY

120 BUSHEL AVERAGE YIELD HIS	-		PRICE OR	TOTAL	YOUR
	UNIT	QUANTITY	COST/UNIT	PER ACRE	FARM
GROSS RECEIPTS					
CORN***	BU.	120.00	\$6.75	\$810.00	
CONN	во.	120.00	\$0.75	\$010.00 _	
TOTAL RECEIPTS:				\$810.00 _	
2. VARIABLE COSTS					
SEED	THOU.	28.00	\$3.000	\$84.00	
FERTILIZER					
18-46-0	LBS	130.00	\$0.56	\$72.80	
NITROGEN 30%	LBS	275.00	\$0.36	\$99.00	
PHOSPHATE (0-46-0)	LBS	0.00	\$0.46	\$0.00	
POTASH (0-0-60	LBS	50.00	\$0.51	\$25.50 _	
LIME (PRORATED)	TON	0.33	\$57.00	\$18.81	
HERBICIDES**	ACRE	1.00	\$22.97		
FUNGICIDES**	ACRE	1.00	\$0.00		
DRYING (3 POINTS)	BU.	120.00	\$0.20		
HAULING	BU.	120.00	\$0.60		
TRACTOR/MACHINERY	ACRE	1.00	\$70.37		
SCOUT	ACRE	0.00	\$16.00	\$0.00 _	
LABOR	HRS	2.09	\$14.16	\$29.59 _	
INTEREST ON OP. CAP.	DOL.	\$196.73	8.0%		
TOTAL VARIABLE COSTS:			_	\$534.78 _	
. INCOME ABOVE VARIABLE COSTS:				\$275.22 _	
I. FIXED COSTS TRACTOR/MACHINERY	ACRE	1.00	\$85.17	\$85.17	
			=		
TOTAL FIXED COSTS:				\$85.17 _	
. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$534.78	7.0%	\$37.43 _	
TOTAL OTHER COSTS:			=	\$37.43 _	
S. TOTAL COSTS:				\$657.38 _	
. NET RETURNS TO LAND, RISK, AND MA				\$152.62	
. HET RETORNS TO LAND, RISK, AND MA				φτο2.02 _	
BREAK-EVEN YIELD		RF	REAK-EVEN PRI	CF	
VARIABLE COSTS	79	BU.	VARIABLE (		\$4.46
	79	BU.			Φ <b>-</b> 40

-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.

TOTAL COSTS

\$5.48

97

TOTAL COSTS

- FERTILIZER AMOUNTS ARE BASED ON HISTORICAL DATA OF REMOVAL RATES FOR N, P2O5, K20 AND YEILD. GROWERS SHOULD SC 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 16'	1.00	0.14	0.12	\$4.56	\$7.08
2	TANDOM LIGHT DISK 20'	1.00	0.14	0.12	\$3.80	\$5.02
5	PLANTER 8-ROW	1.00	0.17	0.14	\$6.21	\$17.71
5	TRACTOR MTD SPRAYER 60 FT	2.00	0.10	0.08	\$3.08	\$7.72
5	COMBINE W/ HEADER 20'	1.00	0.22	0.18	\$45.65	\$43.76
5	GRAIN CART 1100	1.00	0.16	0.13	\$7.07	\$3.88
PER AC	RE TOTALS FOR					
SELECT	ED OPERATIONS		0.93	0.77	\$70.37	\$85.17
UNALLC	CATED LABOR(HRS./AC.)		1.16			

-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			
101	\$93.32		\$126.65	\$160.99	\$195.33	\$229.67			
110	\$140.74		\$177.04	\$214.44	\$251.84	\$289.24			
120	\$193.42		\$233.02	\$273.82	\$314.62	\$355.42			
130	\$246.10	I	\$289.00	\$333.20	\$377.40	\$421.60			
139	\$293.52		\$339.39	\$386.65	\$433.91	\$481.17			

\*THE YEILD REPRESENTED IN THIS BUDGET IS NOT A FUNCTION OF THE MAINTENANCE PRACICES 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 \*\*\*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 Edited by: Ron Heiniger, Ryan Heiniger, Jenny Carleo, and Charles Cahoon, NC State Department of Crop and Soil Science