Corn, High Yield History*- 2024

NC STATE UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2024
180 BUSHEL AVERAGE VIELD HISTORY

			PRICE OR	TOTAL	YOUR
	UNIT	QUANTITY	COST/UNIT	PER ACRE	FARM
. GROSS RECEIPTS					
CORN***	BU	180.00	\$5.95	\$1,071.00	
OOM	ВО	100.00	ψ5.55	Ψ1,071.00_	
TOTAL RECEIPTS:				\$1,071.00 _	
. VARIABLE COSTS					
CORN SEED	THOU.	31.00	\$2.35	\$72.85 _	
FERTILIZER					
18-46-0 DAP	LBS	173.00	\$0.56	\$96.88 _	
UAN-32	LBS	410.00	\$0.64	\$262.40	
46% SUPERPHOSPHATE	LBS	0.00	\$0.46	\$0.00	
0-0-60 MURATE OF POTASH	LBS	78.00	\$0.51		
LIME SPREAD	TON	0.33	\$85.00		
HERBICIDES**	ACRE	1.00	\$39.32		
INSECTICIDES**	ACRE	1.00	\$6.56	\$6.56	
FUNGICIDES**	ACRE	1.00	\$23.20		
DRYING (3 POINTS)	BU.	180.00	\$0.20		
HAULING	BU.	180.00	\$0.60	\$108.00 _	
FERTILIZER SPREADING	ACRE	1.00	\$12.00	\$12.00 _	
TRACTOR/MACHINERY	ACRE	1.00	\$84.83	\$84.83 <u> </u>	
CONSULTING SERVICES****	ACRE	1.00	\$26.00		
LABOR	HRS	1.58	\$14.91		
INTEREST ON OP. CAP.	DOL.	\$323.84	8.5%	\$27.53 _	
TOTAL VARIABLE COSTS:				\$886.96 _	
. INCOME ABOVE VARIABLE COSTS:				\$184.04 _	
. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$166.53	\$166.53	
TOOTONWAOTIINEE	AORE	1.00	ψ100.00	Ψ100.00 _	
TOTAL FIXED COSTS:			=	\$166.53 _	
. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$886.96	7.0%	\$62.09	
			=		
TOTAL OTHER COSTS:				\$62.09 _	
S. TOTAL COSTS:				\$1,115.58 _	
7. NET RETURNS TO LAND, RISK, AND MA	NAGEMEN [*]	Γ:		-\$44.58 _	
BREAK-EVEN YIELD		BR	REAK-EVEN PR	ICE	
VARIABLE COSTS	149	BU.	VARIABLE (\$4.93	
			TOTAL COSTS		\$6.20
TOTAL COSTS	187 BU.		TOTAL COS	\$6.2	

⁻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, K20 AND YIELD. GROWERS SHOULD SOIL SAMPLE TO DETERMINE RATES OF APPLICATION FOR NUTRIENTS IN CORN

⁻IT IS ASSUMED GROWERS ARE PRACTICING REFUGE PLANTING

CORN FOR GRAIN - HIGH YIELD								
PER ACRE MACHINERY AND LABOR REQUIREMENTS								
FIXED	VARIABLE	MACHINE	LABOR	TIMES	OPERATION	MONTH		
COSTS	COSTS	HOURS	HOURS	OVER				
\$14.38	\$5.39	0.10	0.12	1.00	HEAVY DISK 20'	2		
\$12.25	\$5.43	0.07	0.08	1.00	TANDOM LIGHT DISK 30'	2		
\$36.38	\$7.75	0.12	0.14	1.00	PLANTER 16-ROW	5		
\$32.00	\$17.76	0.08	0.10	4.00	HIBOY 90'	5		
\$62.94	\$42.80	0.12	0.14	1.00	COMBINE LARGE W/ HEADER 30'	5		
\$8.58	\$5.70	0.10	0.12	1.00	GRAIN CART 2000	5		
¢166 E3	#94 92	0.50	0.70		RE TOTALS FOR			
\$166.53	φ04.03	0.59	0.70		ED OPERATIONS	SELECTI		
			0.88		CATED LABOR(HRS./AC.)	UNALLO		
	\$84.83	0.59	0.70 0.88		ED OPERATIONS	SELECTI		

⁻EQUIPMENT SELECTION IN THESE BUDGETS VARY FOR COST REPRESENTATION OF VARIATION IN PRACTICES, ACTUAL EQUIPM 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		
151	-\$56.16		-\$12.37	\$32.93	\$78.23	\$123.53		
166	\$12.06		\$60.20	\$110.00	\$159.80	\$209.60		
180	\$75.74		\$127.94	\$181.94	\$235.94	\$289.94		
194	\$139.42		\$195.68	\$253.88	\$312.08	\$370.28		
209	\$207.64		\$268.25	\$330.95	\$393.65	\$456.35		

^{*}THE YIELD REPRESENTED IN THIS BUDGET IS NOT A FUNCTION OF THE MAINTENANCE PRACTICES LISTED. IT IS ASSUMED FARM WILL ADJUST THEIR MAINTENANCE PRACTICES BASED ON THEIR ABILITY TO MAXIMIZE PROFIT WITH THEIR GIVEN YIELD HISTOR **HERBICIDE COST ASSUMED NO RESISTANCE MANAGEMENT, GROWERS SHOULD ONLY APPLY PESTICIDES AS NEEDED

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

^{****}CONSULTING SERVICES INCLUDE SOIL SAMPLING WITH ANALYSIS AND IN SEASON SCOUTING