

Corn, Conventional-2020

ESTIMATED COSTS AND RETURNS PER ACRE, 2020
140 BUSHEL YIELD

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
CORN	BU.	140.00	\$4.70	\$658.00	_____
TOTAL RECEIPTS:				\$658.00	_____
2. VARIABLE COSTS					
SEED	THOU.	30.00	\$2.66	\$79.68	_____
FERTILIZER					
18-46-0	LBS	135.00	\$0.27	\$36.45	_____
NITROGEN (30% solution)	LBS	310.00	\$0.14	\$43.40	_____
PHOSPHATE (0-46-0)	LBS	0.00	\$0.26	\$0.00	_____
POTASH (0-0-60)	LBS	60.00	\$0.23	\$13.80	_____
LIME (PRORATED)	TON	0.33	\$51.00	\$16.83	_____
HERBICIDES	ACRE	1.00	\$32.72	\$32.72	_____
INSECTICIDES	ACRE	1.00	\$0.00	\$0.00	_____
FUNGICIDES	ACRE	1.00	\$0.00	\$0.00	_____
SURFACTANT	ACRE	1.00	\$3.27	\$3.27	_____
DRYING (3 POINTS)	BU.	140.00	\$0.30	\$42.00	_____
HAULING	BU.	140.00	\$0.50	\$70.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$25.41	\$25.41	_____
SCOUTING	ACRE	1.00	\$12.00	\$12.00	_____
LABOR	HRS	1.82	\$12.23	\$22.26	_____
INTEREST ON OP. CAP.	DOL.	\$136.91	5.0%	\$6.85	_____
TOTAL VARIABLE COSTS:				\$404.67	_____
3. INCOME ABOVE VARIABLE COSTS:				\$253.33	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$54.67	\$54.67	_____
TOTAL FIXED COSTS:				\$54.67	_____
5. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$404.67	7.0%	\$28.33	_____
TOTAL OTHER COSTS:				\$28.33	_____
6. TOTAL COSTS:				\$487.67	_____
7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:				\$170.33	_____

<u>BREAK-EVEN YIELD</u>	<u>BREAK-EVEN PRICE</u>		
VARIABLE COSTS	86	BU.	VARIABLE COSTS \$2.89
TOTAL COSTS	104	BU.	TOTAL COSTS \$3.48

*FERTILIZER COST IS A PRICE PER LB OF FERTILIZER LISTED, FARMERS SHOULD USE SOIL TEST TO DETERMINE NUTRIENT RATES

*FERTILIZER AMOUNTS ARE BASED ON REMOVAL RATES, NUTRIENT REMOVAL RATES CAN BE FOUND [HERE](#)

* THIS BUDGET WAS DEVELOPED FOR PLANNING PURPOSES ONLY AND DOES NOT INCLUDE LAND RENT

*EACH GROWER SHOULD CALCULATE THEIR COST BASED ON THEIR AVERAGE PRICE OF INPUTS AND LOCATION

*SCOUTING COST REPRESENT CUSTOM SOIL TESTING BUT NOT MONITORING CROPS FOR INSECTS OR DISEASE

CORN FOR GRAIN - CONVENTIONAL TILLAGE						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 128 BUSHEL CORN						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
11 thru 3	HEAVY DISK 14'	1.00	0.17	0.15	\$3.68	\$4.97
3, 4, or 5	TANDOM LIGHT DISK 20'	1.00	0.08	0.07	\$3.81	\$5.15
3, 4, or 5	PLANTER 12-ROW	1.00	0.11	0.10	\$5.13	\$16.25
3,4 or 4,5	HIBOY 90'	2.00	0.07	0.06	\$1.34	\$14.36
9 thru 11	COMBINE W/ HEADER 24'	1.00	0.17	0.15	\$4.54	\$10.38
9 thru 11	GRAIN CART 1100	1.00	0.14	0.13	\$6.91	\$3.56
PER ACRE TOTALS FOR SELECTED OPERATIONS			0.81	0.66	\$25.41	\$54.67
UNALLOCATED LABOR(HRS./AC.)			1.01			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD	PRICE (\$/bu.)					
	BU.	\$4.23	\$4.47	\$4.70	\$4.94	\$5.17
126		\$137.31	\$167.55	\$196.53	\$226.77	\$255.75
133		\$161.19	\$193.11	\$223.70	\$255.62	\$286.21
140		\$185.08	\$218.68	\$250.88	\$284.48	\$316.68
147		\$208.97	\$244.25	\$278.06	\$313.34	\$347.15
154		\$232.86	\$269.82	\$305.24	\$342.20	\$377.62

*NC STATE DOES NOT ENDORSE ANY COMPANY OR CHEMICAL NAMES ASSOCIATED TO ACTIVE INGREDIENTS

*COST ASSUME NO RESISTANCE MANAGEMENT AND LOW WEED PRESSURE

*FARMERS SHOULD CONSULT THE NC CHEMICAL MANUALS FOR RATES AND RESTRICTIONS BEFORE APPLICATIN. [CLICK HERE](#)

**CHEMICALS LISTED ARE NOT A RECOMMENDATION FOR CHEMICAL USE BUT A REPRESENTATION OF COST ASSUMPTIONS ONLY

CHEMICAL USE ASSUMPTIONS FOR 140 BUSHEL CORN CONVENTIONAL						
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH	
**HERBICIDES:						
s-metolachlor+atrazine (Bicep)	QT	2.10	\$8.06	\$16.92	APR	
glyphosate (Roundup ultra)	QT	1.00	\$4.19	\$4.19	MAR	
2,4-D	PT	1.00	\$1.82	\$1.82	MAR	
dicamba (Banvel)	PT	1.00	\$9.79	\$9.79	APR	
**INSECTICIDES:						
**FUNGICIDES						
TOTAL:				\$32.72		

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