

Corn, Conventional-2021

**NC STATE
UNIVERSITY**

ESTIMATED COSTS AND RETURNS PER ACRE, 2021
140 BUSHEL YIELD

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
CORN	BU.	140.00	\$4.49	\$628.60	_____
TOTAL RECEIPTS:				\$628.60	_____
2. VARIABLE COSTS					
SEED	THOU.	30.00	\$2.66	\$79.68	_____
FERTILIZER					
18-46-0	LBS	135.00	\$0.25	\$33.75	_____
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	\$0.21	\$12.60	_____
LIME (PRORATED)	TON	0.33	\$54.50	\$17.99	_____
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	\$21.44	\$21.44	_____
SCOUTING	ACRE	1.00	\$12.00	\$12.00	_____
LABOR	HRS	1.82	\$12.67	\$23.06	_____
INTEREST ON OP. CAP.	DOL.	\$133.96	2.7%	\$3.64	_____
TOTAL VARIABLE COSTS:				\$395.55	_____
3. INCOME ABOVE VARIABLE COSTS:				\$233.05	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$49.75	\$49.75	_____
TOTAL FIXED COSTS:				\$49.75	_____
5. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$395.55	7.0%	\$27.69	_____
TOTAL OTHER COSTS:				\$27.69	_____
6. TOTAL COSTS:				\$472.99	_____
7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:				\$155.61	_____

BREAK-EVEN YIELD

VARIABLE COSTS
TOTAL COSTS

88 BU.
105 BU.

BREAK-EVEN PRICE

VARIABLE COSTS
TOTAL COSTS

\$2.83
\$3.38

*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	\$2.66	\$4.42
3, 4, or 5	TANDOM LIGHT DISK 20'	1.00	0.08	0.07	\$3.26	\$4.56
3, 4, or 5	PLANTER 12-ROW	1.00	0.11	0.10	\$4.54	\$14.53
3,4 or 4,5	HIBOY 90'	2.00	0.07	0.06	\$1.02	\$13.62
9 thru 11	COMBINE W/ HEADER 24'	1.00	0.17	0.15	\$3.69	\$9.48
9 thru 11	GRAIN CART 1100	1.00	0.14	0.13	\$6.27	\$3.14
PER ACRE TOTALS FOR SELECTED OPERATIONS			0.81	0.66	\$21.44	\$49.75
UNALLOCATED LABOR(HRS./AC.)			1.01			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES					
YIELD	----- PRICE (\$/bu.) -----				
BU.	\$4.04	\$4.27	\$4.49	\$4.71	\$4.94
126	\$122.49	\$151.47	\$179.19	\$206.91	\$235.89
133	\$145.04	\$175.63	\$204.89	\$234.15	\$264.74
140	\$167.60	\$199.80	\$230.60	\$261.40	\$293.60
147	\$190.16	\$223.97	\$256.31	\$288.65	\$322.46
154	\$212.72	\$248.14	\$282.02	\$315.90	\$351.32

*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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