

NC STATE UNIVERSITY

Department of Agricultural and Resource Economics

CORN - CONVENTIONAL TILLAGE, Tide WaterESTIMATED COSTS AND RETURNS PER ACRE
130 BUSHEL YIELD, 2008

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
CORN	BU.	130.00	\$3.50	\$455.00	_____
TOTAL RECEIPTS:				\$455.00	_____
2. VARIABLE COSTS					
SEED	THOU.	30.00	\$2.00	\$60.00	_____
FERTILIZER					
NITROGEN	LBS	150.00	\$0.46	\$69.00	_____
PHOSPHATE	LBS	60.00	\$0.50	\$30.00	_____
POTASH	LBS	75.00	\$0.23	\$17.25	_____
LIME (PRORATED)	TON	0.33	\$42.50	\$14.03	_____
HERBICIDES	ACRE	1.00	\$53.37	\$53.37	_____
HAULING	BU.	130.00	\$0.10	\$13.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$43.32	\$43.32	_____
LABOR	HRS	1.86	\$9.02	\$16.78	_____
INTEREST ON OP. CAP.	DOL.	\$143.49	9.25%	\$13.27	_____
TOTAL VARIABLE COSTS:				\$330.02	_____
3. INCOME ABOVE VARIABLE COSTS:				\$124.98	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$55.94	\$55.94	_____
TOTAL FIXED COSTS:				\$55.94	_____
6. TOTAL COSTS:				\$385.96	_____
7. NET RETURNS TO LAND, RISK AND MANAGEMENT:				\$69.04	_____

<u>BREAK-EVEN YIELD</u>		<u>BREAK-EVEN PRICE</u>	
VARIABLE COSTS	94 BU.	VARIABLE COSTS	\$2.54
TOTAL COSTS	110 BU.	TOTAL COSTS	\$2.97

CORN FOR GRAIN - CONVENTIONAL TILL - Tide Water region NC						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 130 BUSHEL CORN						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
4	TANDEM DISK	3.00	0.99	0.90	\$13.89	\$12.12
4	PLANTER 8R30	1.00	0.10	0.09	\$3.60	\$4.86
5	HIBOY (90 FT BOOM)	2.00	0.07	0.06	\$4.86	\$4.76
8	GRAIN CART	1.00	0.46	0.42	\$8.35	\$11.80
8	COMBINE LARGE W/ HEADER	1.00	0.24	0.22	\$12.62	\$22.40
PER ACRE TOTALS FOR SELECTED OPERATIONS			1.86	1.69	\$43.32	\$55.94
ADDITIONAL LABOR(HRS./AC.)						

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD		PRICE (\$/bu.)				
BU.		\$3.15	\$3.33	\$3.50	\$3.68	\$3.85
117		\$38.53	\$59.01	\$79.48	\$99.96	\$120.43
124		\$59.01	\$80.62	\$102.23	\$123.84	\$145.46
130		\$79.48	\$102.23	\$124.98	\$147.73	\$170.48
137		\$99.96	\$123.84	\$147.73	\$171.62	\$195.51
143		\$120.43	\$145.46	\$170.48	\$195.51	\$220.53

CHEMICAL USE ASSUMPTIONS FOR 130 BUSHEL CORN						
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH	
HERBICIDES:						
metolachlor+atrazine (Bicep)	QT	1.50	\$8.24	\$12.36		MAR
ametryn (Evik)	LB	2.00	\$6.78	\$13.56		MAR
atrazine (Aatrex)	QT	1.00	\$2.32	\$2.32		APR
nicosulfuron (Accent)	QT	0.75	\$33.50	\$25.13		APR
INSECTICIDES:						
TOTAL:				\$53.37		

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