

**NC STATE UNIVERSITY**  
**CORN - NO TILL.,Tide Water**

Department of Agricultural and Resource Economics

ESTIMATED COSTS AND RETURNS PER ACRE  
 130 BUSHEL YIELD, 2008

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
<b>1. GROSS RECEIPTS</b>					
CORN	BU.	130.00	\$3.50	\$455.00	_____
TOTAL RECEIPTS:				<b>\$455.00</b>	_____
<b>2. VARIABLE COSTS</b>					
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	\$57.00	\$57.00	_____
INSECTICIDES	ACRE	1.00	\$0.00	\$0.00	_____
HAULING	BU.	130.00	\$0.10	\$13.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$31.74	\$31.74	_____
LABOR	HRS	1.39	\$9.02	\$12.54	_____
INTEREST ON OP. CAP.	DOL.	\$139.51	9.25%	\$12.90	_____
TOTAL VARIABLE COSTS:				<b>\$317.46</b>	_____
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				<b>\$137.54</b>	_____
<b>4. FIXED COSTS</b>					
TRACTOR/MACHINERY	ACRE	1.00	\$47.37	\$47.37	_____
TOTAL FIXED COSTS:				<b>\$47.37</b>	_____
<b>6. TOTAL COSTS:</b>				<b>\$364.83</b>	_____
<b>7. NET RETURNS TO LAND, RISK AND MANAGEMENT:</b>				<b>\$90.17</b>	_____

<u><b>BREAK-EVEN YIELD</b></u>		<u><b>BREAK-EVEN PRICE</b></u>	
VARIABLE COSTS	91 BU.	VARIABLE COSTS	\$2.44
TOTAL COSTS	104 BU.	TOTAL COSTS	\$2.81

Gary Bullen-Extension Specialist  
 Ron Heiniger-Crop Specialist  
 Emily Weddington-Budget Processor

**CORN FOR GRAIN - NO TILL - Tide Water region NC**

<b>PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 130 BUSHEL CORN</b>						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
4	PLANTER NO-TILL 8R30	1.00	0.10	0.09	\$4.35	\$4.74
3,5,5	PULL TYPE SPRAYER	3.00	0.59	0.54	\$6.42	\$8.43
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			1.39	1.27	\$31.74	\$47.37
UNALLOCATED LABOR(HRS./AC.)						

<b>INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES</b>						
YIELD	PRICE (\$/bu.)					
BU.	\$3.15	\$3.33	\$3.50	\$3.68	\$3.85	
117	\$51.09	\$71.57	\$92.04	\$112.52	\$132.99	
124	\$71.57	\$93.18	\$114.79	\$136.40	\$158.02	
130	\$92.04	\$114.79	\$137.54	\$160.29	\$183.04	
137	\$112.52	\$136.40	\$160.29	\$184.18	\$208.07	
143	\$132.99	\$158.02	\$183.04	\$208.07	\$233.09	

<b>CHEMICAL USE ASSUMPTIONS FOR 130 BUSHEL CORN</b>					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
<b>HERBICIDES:</b>					
metolachlor+atrazine (Bicep)	QT	1.50	\$8.24	\$12.36	MAR
ametryn (Evik)	LB	2.00	\$6.78	\$13.56	MAR
glyphosate (generic)	OZ	32.00	\$0.11	\$3.63	APR
atrazine (Aatrex)	QT	1.00	\$2.32	\$2.32	APR
nicosulfuron (Accent)	OZ	0.75	\$33.50	\$25.13	APR
<b>INSECTICIDES:</b>					
TOTAL:				\$57.00	