

**NC STATE UNIVERSITY**  
**CORN - NO TILL., Piedmont**

Department of Agricultural and Resource Economics

ESTIMATED COSTS AND RETURNS PER ACRE  
 100 BUSHEL YIELD, 2008

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
<b>1. GROSS RECEIPTS</b>					
CORN	BU.	100.00	\$3.50	\$350.00	_____
TOTAL RECEIPTS:				<b>\$350.00</b>	_____
<b>2. VARIABLE COSTS</b>					
SEED	THOU.	20.00	\$1.49	\$29.80	_____
FERTILIZER					
NITROGEN	LBS	120.00	\$0.46	\$55.20	_____
PHOSPHATE	LBS	30.00	\$0.50	\$15.00	_____
POTASH	LBS	30.00	\$0.23	\$6.90	_____
LIME (PRORATED)	TON	0.33	\$42.50	\$14.03	_____
HERBICIDES	ACRE	1.00	\$39.79	\$39.79	_____
Drying (3 pints)	BU.	100.00	\$0.00	\$0.00	_____
HAULING	BU.	100.00	\$0.00	\$0.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$31.31	\$31.31	_____
LABOR	HRS	1.18	\$9.02	\$10.64	_____
INTEREST ON OP. CAP.	DOL.	\$96.02	9.25%	\$8.88	_____
TOTAL VARIABLE COSTS:				<b>\$211.55</b>	_____
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				<b>\$138.45</b>	_____
<b>4. FIXED COSTS</b>					
TRACTOR/MACHINERY	ACRE	1.00	\$42.26	\$42.26	_____
TOTAL FIXED COSTS:				<b>\$42.26</b>	_____
<b>6. TOTAL COSTS:</b>				<b>\$253.81</b>	_____
<b>7. NET RETURNS TO LAND, RISK AND MANAGEMENT:</b>				<b>\$96.19</b>	_____

<b><u>BREAK-EVEN YIELD</u></b>		<b><u>BREAK-EVEN PRICE</u></b>	
VARIABLE COSTS	60 BU.	VARIABLE COSTS	\$2.12
TOTAL COSTS	73 BU.	TOTAL COSTS	\$2.54

CORN FOR GRAIN - NO TILL - Piedmont region NC						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 100 BUSHEL CORN						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
4	PLANTER 4-ROW	1.00	0.20	0.18	\$4.03	\$4.05
3,4,5	HIBOY (30 FT BOOM)	4.00	0.40	0.36	\$12.52	\$12.28
8	COMBINE W/ HEADER	1.00	0.33	0.30	\$13.32	\$23.65
8	TRUCK 1.5 TON	1.00	0.25	0.23	\$1.44	\$2.28
PER ACRE TOTALS FOR SELECTED OPERATIONS			1.18	1.07	\$31.31	\$42.26
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	
90	\$71.95	\$87.70	\$103.45	\$119.20	\$134.95	
95	\$87.70	\$104.33	\$120.95	\$137.58	\$154.20	
100	\$103.45	\$120.95	\$138.45	\$155.95	\$173.45	
105	\$119.20	\$137.58	\$155.95	\$174.33	\$192.70	
110	\$134.95	\$154.20	\$173.45	\$192.70	\$211.95	

CHEMICAL USE ASSUMPTIONS FOR 100 BUSHEL CORN						
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH	
HERBICIDES:						
metolachlor+atrazine (Bicep)	QT	2.00	\$8.24	\$16.49	MARCH	
paraquat (Gramoxone Extra)	PT	1.50	\$3.57	\$5.35	MARCH	
nicosulfuron+rimsulfuron+atrazine (EQT)		12.00	\$1.19	\$14.32	APRIL	
glyphosate (generic)	QT	32.00	\$0.11	\$3.63	APRIL	
INSECTICIDES:						
TOTAL:				\$39.79		

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