

# CLEMSON

## EXTENSION

Department of Applied Economics and Statistics

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### CORN FOR GRAIN - IRRIGATED

ESTIMATED COSTS AND RETURNS PER ACRE, 2009/2010  
160 BUSHEL YIELD, 100 ACRE CENTER PIVOT - 6" OF WATER

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
<b>1. GROSS RECEIPTS</b>					
CORN	BU.	160.00	\$4.00	\$640.00	_____
TOTAL RECEIPTS:				<b>\$640.00</b>	_____
<b>2. VARIABLE COSTS</b>					
SEED	THOU.	28.00	\$2.08	\$58.10	_____
FERTILIZER					
NITROGEN	LBS	190.00	\$0.95	\$180.50	_____
PHOSPHATE	LBS	60.00	\$1.28	\$76.80	_____
POTASH	LBS	60.00	\$0.90	\$54.00	_____
LIME (PRORATED)	TON	0.50	\$51.00	\$25.50	_____
HERBICIDES	ACRE	1.00	\$19.82	\$19.82	_____
INSECTICIDES	ACRE	1.00	\$11.75	\$11.75	_____
IRRIG., MACH & LABOR	ACRE	1.00	\$48.16	\$48.16	_____
DRYING (3 POINTS)	BU.	169.33	\$0.15	\$25.40	_____
HAULING	BU.	160.00	\$0.40	\$64.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$31.86	\$31.86	_____
LABOR	HRS	2.54	\$6.50	\$16.51	_____
INTEREST ON OP. CAP.	DOL.	\$253.25	9.0%	\$22.79	_____
TOTAL VARIABLE COSTS:				<b>\$635.19</b>	_____
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				<b>\$4.81</b>	_____
<b>4. FIXED COSTS</b>					
TRACTOR/MACHINERY	ACRE	1.00	\$49.17	\$49.17	_____
IRRIGATION	ACRE	1.00	\$99.37	\$99.37	_____
TOTAL FIXED COSTS:				<b>\$148.54</b>	_____
<b>5. OTHER COSTS</b>					
LAND RENT	ACRE	1.00	\$25.00	\$25.00	_____
GENERAL OVERHEAD	DOL.	\$635.19	9.0%	\$57.17	_____
TOTAL OTHER COSTS:				<b>\$82.17</b>	_____
<b>6. TOTAL COSTS:</b>				<b>\$865.90</b>	_____
<b>7. NET RETURNS TO RISK AND MANAGEMENT:</b>				<b>-\$225.90</b>	_____

#### BREAK-EVEN YIELD

VARIABLE COSTS  
TOTAL COSTS

159 BU.  
227 BU.

#### BREAK-EVEN PRICE

VARIABLE COSTS  
TOTAL COSTS

\$3.97  
\$5.41

\* PLEASE NOTE: THIS BUDGET IS FOR PLANNING PURPOSES ONLY.

CORN FOR GRAIN - IRRIGATED						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 160 BUSHEL IRRIGATED CORN						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
2	HEAVY DISK 16'	1.00	0.13	0.12	\$3.71	\$4.14
3	SUBSOILER-PLANTER W/SPRAYER 6-ROW	1.00	0.20	0.18	\$7.54	\$9.43
4	HERBICIDE APPLICATOR 16'	1.00	0.12	0.11	\$1.58	\$1.32
5	FERTILIZER SPREADER	1.00	0.13	0.12	\$1.85	\$4.54
5	CULTIVATOR 6-ROW	1.00	0.19	0.17	\$2.37	\$1.98
9	COMBINE W/ HEADER	1.00	0.36	0.33	\$14.81	\$27.76
PER ACRE TOTALS FOR SELECTED OPERATIONS			1.13	1.03	31.86	49.17
UNALLOCATED LABOR(HRS./AC.)			1.41			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES					
YIELD	PRICE (\$/bu.)				
	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40
144	-\$107.85	-\$79.05	-\$50.25	-\$21.45	\$7.35
152	-\$83.52	-\$53.12	-\$22.72	\$7.68	\$38.08
160	-\$59.19	-\$27.19	\$4.81	\$36.81	\$68.81
168	-\$34.86	-\$1.26	\$32.34	\$65.94	\$99.54
176	-\$10.53	\$24.67	\$59.87	\$95.07	\$130.27

CHEMICAL USE ASSUMPTIONS FOR 160 BUSHEL IRRIGATED CORN					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES:					
carfentrazone (Aim)	OZ	1.00	\$5.59	\$5.59	MAY
s-metolachlor+atrazine (Bicep)	QT	1.30	\$9.39	\$12.20	MAR
atrazine (Aatrex)	QT	1.00	\$2.03	\$2.03	APR
INSECTICIDES:					
terbufos (Counter)	LB	5.00	\$2.35	\$11.75	MAR
TOTAL:				\$31.57	

The above listed chemicals are examples and do not imply exclusive recommendations by Clemson University. The "Pest Management Handbook" must be consulted. Production assumptions provided by Pawel Wiatrak, (803) 284-3343, pwiatra@clemson.edu.

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