

# CLEMSON COOPERATIVE EXTENSION

Last revised: 1/15/2016

<b>CORN FOR GRAIN - IRRIGATED</b>						
ESTIMATED COSTS AND RETURNS PER ACRE, 2010/2011						
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>\$0.00</b>	
<b>2. VARIABLE COSTS</b>						
SEED	THOU.	28.00	\$2.50	\$70.00	_____	
FERTILIZER						
NITROGEN	LBS	190.00	\$0.77	\$146.30	_____	
PHOSPHATE	LBS	60.00	\$0.49	\$29.40	_____	
POTASH	LBS	60.00	\$0.33	\$19.80	_____	
LIME (PRORATED)	TON	0.50	\$45.00	\$22.50	_____	
HERBICIDES	ACRE	1.00	\$24.19	\$24.19	_____	
INSECTICIDES	ACRE	1.00	\$18.00	\$18.00	_____	
IRRIG., MACH & LABOR	ACRE	1.00	\$96.32	\$96.32	_____	
DRYING (3 POINTS)	BU.	169.33	\$0.25	\$42.33	_____	
HAULING	BU.	160.00	\$0.70	\$112.00	_____	
TRACTOR/MACHINERY	ACRE	1.00	\$28.27	\$28.27	_____	
LABOR	HRS	2.54	\$9.50	\$24.13	_____	
INTEREST ON OP. CAP.	DOL.	\$316.62	5.0%	\$15.83	_____	
TOTAL VARIABLE COSTS:				<b>\$649.07</b>	<b>\$0.00</b>	
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				<b>-\$9.07</b>	<b>\$0.00</b>	
<b>4. FIXED COSTS</b>						
TRACTOR/MACHINERY	ACRE	1.00	\$44.02	\$44.02	_____	
IRRIGATION	ACRE	1.00	\$79.89	\$79.89	_____	
TOTAL FIXED COSTS:				<b>\$123.91</b>	<b>\$0.00</b>	
<b>5. OTHER COSTS</b>						
LAND RENT	ACRE	1.00	\$60.00	\$60.00	_____	
GENERAL OVERHEAD	DOL.	\$649.07	7.0%	\$45.43	_____	
TOTAL OTHER COSTS:				<b>\$105.43</b>	<b>\$0.00</b>	
<b>6. TOTAL COSTS:</b>				<b>\$878.41</b>	<b>\$0.00</b>	
<b>7. NET RETURNS TO RISK AND MANAGEMENT:</b>				<b>-\$238.41</b>	<b>\$0.00</b>	
<b><u>BREAK-EVEN YIELD</u></b>						
VARIABLE COSTS	163	BU.	<b><u>BREAK-EVEN PRICE</u></b>			
TOTAL COSTS	240	BU.	VARIABLE COSTS		\$4.06	
			TOTAL COSTS		\$5.49	

\* 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	\$2.97	\$3.69
3	SUBSOILER-PLANTER W/SPRAYER 6-ROW	1.00	0.20	0.18	\$6.56	\$8.36
4	HERBICIDE APPLICATOR 16'	1.00	0.12	0.11	\$1.24	\$1.16
5	FERTILIZER SPREADER	1.00	0.13	0.12	\$1.62	\$4.03
5	CULTIVATOR 6-ROW	1.00	0.19	0.17	\$1.85	\$1.72
9	COMBINE W/ HEADER	1.00	0.36	0.33	\$14.03	\$25.06
PER ACRE TOTALS FOR SELECTED OPERATIONS			1.13	1.03	28.27	44.02
UNALLOCATED LABOR(HRS./AC.)			1.41			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES					
YIELD	PRICE (\$/bu.)				
BU.	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40
144	-\$115.24	-\$86.44	-\$57.64	-\$28.84	-\$0.04
152	-\$94.16	-\$63.76	-\$33.36	-\$2.96	\$27.44
160	-\$73.07	-\$41.07	-\$9.07	\$22.93	\$54.93
168	-\$51.99	-\$18.39	\$15.21	\$48.81	\$82.41
176	-\$30.91	\$4.29	\$39.49	\$74.69	\$109.89

CHEMICAL USE ASSUMPTIONS FOR 160 BUSHEL IRRIGATED CORN					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES:					
carfentrazone (Aim)	OZ	1.00	\$5.91	\$5.91	MAY
s-metolachlor+atrazine (Bicep)	QT	1.30	\$10.63	\$13.81	MAR
atrazine (Aatrex)	QT	1.00	\$4.47	\$4.47	APR
INSECTICIDES:					
terbufos (Counter)	LB	5.00	\$3.60	\$18.00	MAR
TOTAL:				\$42.19	

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 David H Gunter, Extension Specialist, 843-662-3526, dgunter@clemson.edu

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