

# CLEMSON COOPERATIVE EXTENSION

Last revised: 1/15/2016

## CORN FOR GRAIN - IRRIGATED - CONSERVATION TILLAGE (ROUNDUP READY)

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	\$3.70	\$103.60	_____
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	\$23.97	\$23.97	_____
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	\$23.24	\$23.24	_____
LABOR	HRS	1.82	\$9.50	\$17.29	_____
INTEREST ON OP. CAP.	DOL.	\$327.38	5.0%	\$16.37	_____
TOTAL VARIABLE COSTS:				<b>\$671.12</b>	<b>\$0.00</b>
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				<b>-\$31.12</b>	<b>\$0.00</b>
<b>4. FIXED COSTS</b>					
TRACTOR/MACHINERY	ACRE	1.00	\$38.17	\$38.17	_____
IRRIGATION	ACRE	1.00	\$79.89	\$79.89	_____
TOTAL FIXED COSTS:				<b>\$118.06</b>	<b>\$0.00</b>
<b>5. OTHER COSTS</b>					
LAND RENT	ACRE	1.00	\$60.00	\$60.00	_____
GENERAL OVERHEAD	DOL.	\$671.12	7.0%	\$46.98	_____
TOTAL OTHER COSTS:				<b>\$106.98</b>	<b>\$0.00</b>
<b>6. TOTAL COSTS:</b>				<b>\$896.16</b>	<b>\$0.00</b>
<b>7. NET RETURNS TO RISK AND MANAGEMENT:</b>				<b>-\$256.16</b>	<b>\$0.00</b>

<u>BREAK-EVEN YIELD</u>		<u>BREAK-EVEN PRICE</u>	
VARIABLE COSTS	170 BU.	VARIABLE COSTS	\$4.19
TOTAL COSTS	246 BU.	TOTAL COSTS	\$5.60

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

CORN FOR GRAIN - IRRIGATED - CONSERVATION TILLAGE (ROUNDUP READY)						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 160 BUSHEL IRRIGATED CORN						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
3	SUBSOILER-PLANTER 6-ROW	1.00	0.20	0.18	\$6.35	\$7.92
4	HERBICIDE APPLICATOR 16'	1.00	0.12	0.11	\$1.24	\$1.16
4	FERTILIZER SPREADER	1.00	0.13	0.12	\$1.62	\$4.03
9	COMBINE W/ HEADER	1.00	0.36	0.33	\$14.03	\$25.06
PER ACRE TOTALS FOR SELECTED OPERATIONS			0.81	0.74	23.24	38.17
UNALLOCATED LABOR(HRS./AC.)			1.01			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD	PRICE (\$/bu.)					
BU.	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40	
144	-\$137.29	-\$108.49	-\$79.69	-\$50.89	-\$22.09	
152	-\$116.21	-\$85.81	-\$55.41	-\$25.01	\$5.39	
160	-\$95.12	-\$63.12	-\$31.12	\$0.88	\$32.88	
168	-\$74.04	-\$40.44	-\$6.84	\$26.76	\$60.36	
176	-\$52.96	-\$17.76	\$17.44	\$52.64	\$87.84	

CHEMICAL USE ASSUMPTIONS FOR 160 BUSHEL IRRIGATED CORN						
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH	
HERBICIDES:						
glyphosate (Roundup ultra)	QT	1.00	\$5.69	\$5.69		X MAR, 1X APR
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:				\$41.97		

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

THE CLEMSON UNIVERSITY COOPERATIVE EXTENSION SERVICE OFFERS ITS PROGRAMS TO PEOPLE OF ALL AGES, REGARDLESS OF RACE, COLOR, SEX, RELIGION, NATIONAL ORIGIN, OR HANDICAP AND IS AN EQUAL OPPORTUNITY EMPLOYER. COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS-- STATE OF SOUTH CAROLINA, CLEMSON UNIVERSITY, U.S. DEPARTMENT OF AGRICULTURE, AND SOUTH CAROLINA COUNTIES COOPERATING.