

CLEMSON COOPERATIVE EXTENSION

Last revised: 02/06/2017

CORN FOR GRAIN - IRRIGATED - CONSERVATION TILLAGE					
ESTIMATED COSTS AND RETURNS PER ACRE					
200 BUSHEL YIELD, 80 ACRE CENTER PIVOT - 6" OF WATER					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
CORN	BU.	200.00	\$4.25	\$850.00	_____
TOTAL RECEIPTS:				\$850.00	=====
2. VARIABLE COSTS					
SEED	THOU.	32.00	\$3.70	\$118.40	_____
FERTILIZER					
NITROGEN	LBS	210.00	\$0.52	\$109.20	_____
PHOSPHATE	LBS	80.00	\$0.51	\$40.80	_____
POTASH	LBS	60.00	\$0.40	\$24.00	_____
LIME (PRORATED)	TON	0.50	\$47.50	\$23.75	_____
HERBICIDES	ACRE	1.00	\$31.79	\$31.79	_____
FUNGICIDES	ACRE	1.00	\$45.19	\$45.19	_____
INSECTICIDES	ACRE	1.00	\$18.00	\$18.00	_____
IRRIG., MACH & LABOR	ACRE	1.00	\$30.00	\$30.00	_____
DRYING (3 POINTS)	BU.	211.66	\$0.25	\$52.92	_____
HAULING	BU.	200.00	\$0.35	\$70.00	_____
CROP INSURANCE	ACRE	1.00	\$15.00	\$15.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$37.85	\$37.85	_____
LABOR	HRS	1.33	\$11.25	\$14.96	_____
CROP SCOUTING	ACRE	1.00	\$10.00	\$10.00	_____
INTEREST ON OP. CAP.	DOL.	\$315.93	5.0%	\$15.80	_____
TOTAL VARIABLE COSTS:				\$657.66	=====
3. INCOME ABOVE VARIABLE COSTS:				\$192.34	=====
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$77.04	\$77.04	_____
IRRIGATION	ACRE	1.00	\$100.00	\$100.00	_____
TOTAL FIXED COSTS:				\$177.04	=====
5. OTHER COSTS					
LAND RENT	ACRE	1.00	\$60.00	\$60.00	_____
GENERAL OVERHEAD	DOL.	\$657.66	7.0%	\$46.04	_____
TOTAL OTHER COSTS:				\$106.04	=====
6. TOTAL COSTS:				\$940.74	=====
7. NET RETURNS TO RISK AND MANAGEMENT:				-\$90.74	=====

BREAK-EVEN YIELD		BREAK-EVEN PRICE	
VARIABLE COSTS	147 BU.	VARIABLE COSTS	\$3.29
TOTAL COSTS	225 BU.	TOTAL COSTS	\$4.70

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

CORN FOR GRAIN - IRRIGATED - CONSERVATION TILLAGE (ROUNDUP READY)						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 200 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	SELF PROPELLED SPRAYER 90'	3.00	0.03	0.03	\$2.37	\$2.94
9	COMBINE W/ HEADER	1.00	0.36	0.33	\$29.13	\$66.18
PER ACRE TOTALS FOR SELECTED OPERATIONS			0.59	0.54	37.85	77.04
UNALLOCATED LABOR(HRS./AC.)			0.74			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD	PRICE (\$/bu.)					
BU.	\$3.83	\$4.04	\$4.25	\$4.46	\$4.68	
180	\$44.04	\$81.84	\$119.64	\$157.44	\$197.04	
190	\$76.19	\$116.09	\$155.99	\$195.89	\$237.69	
200	\$108.35	\$150.35	\$192.35	\$234.35	\$278.35	
210	\$140.50	\$184.60	\$228.70	\$272.80	\$319.00	
220	\$172.65	\$218.85	\$265.05	\$311.25	\$359.65	

CHEMICAL USE ASSUMPTIONS FOR 200 BUSHEL IRRIGATED CORN						
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH	
HERBICIDES:						
glyphosate (Roundup ultra)	QT	2.00	\$5.69	\$11.38	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	
2,4-D	PT	1.00	\$2.13	\$2.13	MAR	
FUNGICIDES:						
pyraclostrobin (Headline)	OZ	12.00	\$3.77	\$45.19		
INSECTICIDES:						
terbufos (Counter)	LB	5.00	\$3.60	\$18.00	MAR	
TOTAL:				\$94.98		

The above listed chemicals are examples and do not imply exclusive recommendations by Clemson University. Contact your local Extension Agent and consult the South Carolina Pest Management Handbook for more information.

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