

CLEMSON

EXTENSION

Department of Applied Economics and Statistics

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CORN FOR GRAIN - IRRIGATED

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
1. GROSS RECEIPTS					
CORN	BU.	160.00	\$4.00	\$640.00	_____
TOTAL RECEIPTS:				\$640.00	_____
2. VARIABLE COSTS					
SEED	THOU.	28.00	\$2.80	\$78.26	_____
FERTILIZER					
NITROGEN	LBS	190.00	\$0.71	\$134.90	_____
PHOSPHATE	LBS	60.00	\$0.61	\$36.60	_____
POTASH	LBS	60.00	\$0.55	\$33.00	_____
LIME (PRORATED)	TON	0.50	\$51.50	\$25.75	_____
HERBICIDES	ACRE	1.00	\$16.95	\$16.95	_____
INSECTICIDES	ACRE	1.00	\$11.15	\$11.15	_____
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.	\$208.32	9.0%	\$18.75	_____
TOTAL VARIABLE COSTS:				\$541.29	_____
3. INCOME ABOVE VARIABLE COSTS:				\$98.71	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$49.17	\$49.17	_____
IRRIGATION	ACRE	1.00	\$99.37	\$99.37	_____
TOTAL FIXED COSTS:				\$148.54	_____
5. OTHER COSTS					
LAND RENT	ACRE	1.00	\$25.00	\$25.00	_____
GENERAL OVERHEAD	DOL.	\$541.29	9.0%	\$48.72	_____
TOTAL OTHER COSTS:				\$73.72	_____
6. TOTAL COSTS:				\$763.55	_____
7. NET RETURNS TO RISK AND MANAGEMENT:				-\$123.55	_____

BREAK-EVEN YIELD		BREAK-EVEN PRICE	
VARIABLE COSTS	131 BU.	VARIABLE COSTS	\$3.38
TOTAL COSTS	196 BU.	TOTAL COSTS	\$4.77

* 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.)				
BU.	\$3.60	\$3.80	\$4.00	\$4.20	\$4.40
144	-\$13.95	\$14.85	\$43.65	\$72.45	\$101.25
152	\$10.38	\$40.78	\$71.18	\$101.58	\$131.98
160	\$34.71	\$66.71	\$98.71	\$130.71	\$162.71
168	\$59.04	\$92.64	\$126.24	\$159.84	\$193.44
176	\$83.37	\$118.57	\$153.77	\$188.97	\$224.17

CHEMICAL USE ASSUMPTIONS FOR 160 BUSHEL IRRIGATED CORN					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES:					
carfentrazone (Aim)	OZ	1.00	\$1.70	\$1.70	MAY
s-metolachlor+atrazine (Bicep)	QT	1.30	\$8.74	\$11.36	MAR
atrazine (Aatrex)	QT	1.00	\$3.89	\$3.89	APR
INSECTICIDES:					
terbufos (Counter)	LB	5.00	\$2.23	\$11.15	MAR
TOTAL:				\$28.10	
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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