

CLEMSON

EXTENSION

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FALL CABBAGE - IRRIGATED

ESTIMATED COSTS AND RETURNS PER ACRE, 2008/2009
600 BOXES (50 LBS PER BOX) - HARVEST IN NOVEMBER AND DECEMBER

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
CABBAGE	BOX	600.00	\$6.00	\$3,600.00	_____
TOTAL RECEIPTS:				\$3,600.00	_____
2. VARIABLE COSTS					
SEEDLINGS ***	THOU.	16.00	\$18.00	\$288.00	_____
FERTILIZER					
5-10-10 (SPREAD)	CWT	12.00	\$12.63	\$151.56	_____
SIDE DRESSING-CALCIUM NITRATE	CWT	4.00	\$18.50	\$74.00	_____
LIME (PRORATED)	TON	1.00	\$52.50	\$52.50	_____
HERBICIDES	ACRE	1.00	\$4.73	\$4.73	_____
INSECTICIDES	ACRE	1.00	\$141.90	\$141.90	_____
FUNGICIDES	ACRE	1.00	\$19.24	\$19.24	_____
SPREADER/STICKER	ACRE	1.00	\$2.00	\$2.00	_____
TRANSPLANT LABOR	HRS	10.00	\$6.50	\$65.00	_____
IRRIGATION, MACHINERY & LABOR	ACRE	1.00	\$74.73	\$74.73	_____
HARVEST & HAULING	BOX	600.00	\$1.50	\$900.00	_____
CABBAGE BOXES	EACH	600.00	\$1.35	\$810.00	_____
MARKETING	BOX	600.00	\$0.50	\$300.00	_____
PACKING LABOR	HRS	12.00	\$6.50	\$78.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$61.45	\$61.45	_____
LABOR	HRS	22.01	\$6.50	\$143.07	_____
INTEREST ON OP. CAP.	DOL.	\$467.56	9.0%	\$42.08	_____
TOTAL VARIABLE COSTS:				\$3,208.26	_____
3. INCOME ABOVE VARIABLE COSTS:				\$391.74	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$97.51	\$97.51	_____
IRRIGATION	ACRE	1.00	\$141.66	\$141.66	_____
TOTAL FIXED COSTS:				\$239.17	_____
5. OTHER COSTS					
LAND RENT	ACRE	1.00	\$25.00	\$25.00	_____
GENERAL OVERHEAD	DOL.	\$3,208.26	9.0%	\$288.74	_____
TOTAL OTHER COSTS:				\$313.74	_____
6. TOTAL COSTS:				\$3,761.17	_____
7. NET RETURNS TO RISK AND MANAGEMENT:				-\$161.17	_____

BREAK-EVEN YIELD

VARIABLE COSTS	452	BOX
TOTAL COSTS	669	BOX

BREAK-EVEN PRICE PER CWT

VARIABLE COSTS	\$5.35
TOTAL COSTS	\$6.27

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

** BASED ON IMPROVED PRODUCTION PRACTICES FOR COMMERCIAL PRODUCERS.

*** AVERAGE COST BASED ON FIELD GROWN AT LOWER-END OF \$12 AND GREENHOUSE TRANSPLANT AT HIGHER-END OF \$24.

FALL CABBAGE - IRRIGATED						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR FALL CABBAGE						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
7	HEAVY DISK 14'	1.00	0.17	0.15	\$2.67	\$3.92
7	DISK W/ SPRAYER 16'	1.00	0.17	0.15	\$2.00	\$3.42
8	SUBSOILER BEDDER 2-ROW	1.00	0.50	0.45	\$3.85	\$5.09
8	TRANSPLANTER 2-ROW	1.00	2.52	2.29	\$13.74	\$24.23
9&10	CULTIVATOR 2-ROW	3.00	1.85	1.68	\$9.75	\$13.14
8,9&10	PULL TYPE SPRAYER	9.00	1.78	1.62	\$11.61	\$24.39
7-10	NURSE TANK ON PICK-UP	7.00	1.31	1.19	\$7.35	\$11.20
9-10	SIDEDRESSER 2-ROW	2.00	1.23	1.12	\$9.04	\$9.90
8	TRUCK 1.5 TON	1.00	0.25	0.23	\$1.44	\$2.22
PER ACRE TOTALS FOR SELECTED OPERATIONS			9.78	8.88	\$61.45	\$97.51
UNALLOCATED LABOR(HRS./AC.)			12.23			

Note: Ten inches of water is applied using a 10 acre cable tow travel gun irrigation system. Two applications per month are put down in August, two in September and two in October. It is assumed that the irrigation system is used on two crops each year. This results in reducing the fixed cost by 1/2.

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES					
YIELD	PRICE PER CWT				
CWT	\$4.80	\$5.40	\$6.00	\$6.60	\$7.20
480	-\$502.26	-\$214.26	\$73.74	\$361.74	\$649.74
540	-\$415.26	-\$91.26	\$232.74	\$556.74	\$880.74
600	-\$328.26	\$31.74	\$391.74	\$751.74	\$1,111.74
660	-\$241.26	\$154.74	\$550.74	\$946.74	\$1,342.74
720	-\$154.26	\$277.74	\$709.74	\$1,141.74	\$1,573.74

CHEMICAL USE ASSUMPTIONS FOR FALL CABBAGE					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES					
trifluralin (Treflan EC)	PT	1.50	\$3.15	\$4.73	1X JUL
INSECTICIDES					
spinosad (Spintor)*	OZ	4.00	\$4.32	\$17.30	1X SEPT, 1X OCT
z-cypermethrin (Mustang Max)	OZ	4.00	\$1.62	\$6.47	1X SEP 1X OCT
bacillus thuringiensis (Xentari)	LB	10.50	\$11.25	\$118.13	3X SEPT, 3X OCT, 1X NOV
FUNGICIDES					
chlorothalonil (Bravo)	PT	5.40	\$3.56	\$19.24	1X AUG, 1X SEP, 1X OCT
TOTAL:				\$165.87	

* The bacillus thuringiensis products should be the mainstay of caterpillar management program. Spintor, Proclaim, Intrepid, and Avaunt should be rotated to control caterpillars not responding to the bacillus thuringiensis products.

The above listed chemicals are examples and do not imply exclusive recommendations by Clemson University. The "Vegetable Crop Guidelines for the Southeastern US" must be consulted. Production assumptions provided by Powell Smith, (803) 359-8515, jpsmith@clemson.edu.

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