

CLEMSON

EXTENSION

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SPRING CABBAGE - IRRIGATED

ESTIMATED COSTS AND RETURNS PER ACRE, 2008/2009
700 BOXES (50 LBS PER BOX) - HARVEST IN MAY

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
CABBAGE	BOX	700.00	\$7.50	\$5,250.00	_____
TOTAL RECEIPTS:				\$5,250.00	_____
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	\$118.55	\$118.55	_____
FUNGICIDES	ACRE	1.00	\$64.24	\$64.24	_____
SPREADER/STICKER	ACRE	1.00	\$2.00	\$2.00	_____
TRANSPLANT LABOR	HRS	10.00	\$6.50	\$65.00	_____
IRRIGATION, MACHINERY & LABOR	ACRE	1.00	\$63.60	\$63.60	_____
HARVEST & HAULING	BOX	700.00	\$1.50	\$1,050.00	_____
CABBAGE BOXES	EACH	700.00	\$1.35	\$945.00	_____
MARKETING	BOX	700.00	\$0.50	\$350.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$53.96	\$53.96	_____
LABOR	HRS	18.05	\$6.50	\$117.33	_____
INTEREST ON OP. CAP.	DOL.	\$469.07	9.0%	\$42.22	_____
TOTAL VARIABLE COSTS:				\$3,442.69	_____
3. INCOME ABOVE VARIABLE COSTS:				\$1,807.31	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$84.80	\$84.80	_____
IRRIGATION	ACRE	1.00	\$141.66	\$141.66	_____
TOTAL FIXED COSTS:				\$226.46	_____
5. OTHER COSTS					
LAND RENT	ACRE	1.00	\$25.00	\$25.00	_____
GENERAL OVERHEAD	DOL.	\$3,442.69	9.0%	\$309.84	_____
TOTAL OTHER COSTS:				\$334.84	_____
6. TOTAL COSTS:				\$4,003.99	_____
7. NET RETURNS TO RISK AND MANAGEMENT:				\$1,246.01	_____

BREAK-EVEN YIELD

<u>BREAK-EVEN YIELD</u>		<u>BREAK-EVEN PRICE PER CWT</u>	
VARIABLE COSTS	265 BOX	VARIABLE COSTS	\$4.92
TOTAL COSTS	376 BOX	TOTAL COSTS	\$5.72

* 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.

SPRING CABBAGE - IRRIGATED						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR SPRING CABBAGE						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
1	HEAVY DISK 14'	1.00	0.17	0.15	\$2.67	\$3.92
1	DISK W/ SPRAYER 16'	1.00	0.17	0.15	\$2.00	\$3.42
2	SUBSOILER-BEDDER 4-ROW	1.00	0.21	0.19	\$3.05	\$2.87
2	TRANSPLANTER 2-ROW	1.00	2.52	2.29	\$13.74	\$24.23
3&4	CULTIVATOR 4-ROW	2.00	0.51	0.46	\$3.96	\$4.74
2-5	PULL TYPE SPRAYER	8.00	1.58	1.44	\$10.32	\$21.68
2-5	NURSE TANK ON PICK-UP	6.00	1.12	1.02	\$6.30	\$9.60
3&4	SIDEDRESSER 2-ROW	2.00	1.23	1.12	\$9.04	\$9.90
2&5	TRUCK 1.5 TON	2.00	0.51	0.46	\$2.88	\$4.44
PER ACRE TOTALS FOR SELECTED OPERATIONS			8.02	7.28	\$53.96	\$84.80
UNALLOCATED LABOR(HRS./AC.)			10.03			

Note: Eight inches of water is applied using a 10 acre cable tow travel gun irrigation system. One application per month is put down in March, two in April, and two in May. (0.5" first four weeks and 1.5" last four weeks). 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	\$6.00	\$6.75	\$7.50	\$8.25	\$9.00	
560	\$386.31	\$806.31	\$1,226.31	\$1,646.31	\$2,066.31	
630	\$571.81	\$1,044.31	\$1,516.81	\$1,989.31	\$2,461.81	
700	\$757.31	\$1,282.31	\$1,807.31	\$2,332.31	\$2,857.31	
770	\$942.81	\$1,520.31	\$2,097.81	\$2,675.31	\$3,252.81	
840	\$1,128.31	\$1,758.31	\$2,388.31	\$3,018.31	\$3,648.31	

CHEMICAL USE ASSUMPTIONS FOR SPRING CABBAGE						
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH	
HERBICIDES						
trifluralin (Treflan EC)	PT	1.50	\$3.15	\$4.73	1X JAN	
INSECTICIDES						
spinosad (Spintor)	OZ	4.00	\$4.32	\$17.30	1X APR, 1X MAY	
bacillus thuringiensis (Xentari)	LB	9.00	\$11.25	\$101.25	2X MAR, 2X APR, 2X MAY	
FUNGICIDES						
chlorothalonil (Bravo)	PT	3.00	\$3.56	\$10.69	1X APR, 1X MAY	
fosetyl-AI (Aliette)	LB	3.00	\$10.35	\$31.05	1X MAR	
azoxystrobin (Amistar)	OZ	4.00	\$5.63	\$22.50	1X APR, 1X MAY	
TOTAL:				\$187.52		

* The bacillus thuringiensis products should be the mainstay of caterpillar management program. Spintor, Proclaim, Intrepid, and Avaunt should be used 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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