

CLEMSON COOPERATIVE EXTENSION

Last revised: 1/15/2016

FALL CABBAGE - IRRIGATED

ESTIMATED COSTS AND RETURNS PER ACRE
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	\$10.00	\$6,000.00	
TOTAL RECEIPTS:				\$6,000.00	\$0.00
2. VARIABLE COSTS					
SEEDLINGS ***	THOU.	16.00	\$48.00	\$768.00	
FERTILIZER					
5-10-10 (SPREAD)	CWT	12.00	\$16.25	\$195.00	
SIDE DRESSING-CALCIUM NITRATE	LBS	400.00	\$0.25	\$100.00	
LIME (PRORATED)	TON	1.00	\$45.00	\$45.00	
HERBICIDES	ACRE	1.00	\$15.71	\$15.71	
INSECTICIDES	ACRE	1.00	\$138.04	\$138.04	
FUNGICIDES	ACRE	1.00	\$43.54	\$43.54	
SPREADER/STICKER	ACRE	1.00	\$2.80	\$2.80	
TRANSPLANT LABOR	HRS	10.00	\$9.00	\$90.00	
IRRIGATION, MACHINERY & LABOR	ACRE	1.00	\$149.46	\$149.46	
HARVEST & HAULING	BOX	600.00	\$2.75	\$1,650.00	
CABBAGE BOXES	EACH	600.00	\$1.95	\$1,170.00	
MARKETING	BOX	600.00	\$0.75	\$450.00	
PACKING LABOR	HRS	12.00	\$9.00	\$108.00	
TRACTOR/MACHINERY	ACRE	1.00	\$72.94	\$72.94	
LABOR	HRS	22.01	\$9.50	\$209.10	
INTEREST ON OP. CAP.	DOL.	\$2,603.80	5.0%	\$130.19	
TOTAL VARIABLE COSTS:				\$5,337.78	\$0.00
3. INCOME ABOVE VARIABLE COSTS:				\$662.22	\$0.00
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$93.36	\$93.36	
IRRIGATION	ACRE	1.00	\$78.65	\$78.65	
TOTAL FIXED COSTS:				\$172.01	\$0.00
5. OTHER COSTS					
LAND RENT	ACRE	1.00	\$50.00	\$50.00	
GENERAL OVERHEAD	DOL.	\$5,337.78	7.0%	\$373.64	
TOTAL OTHER COSTS:				\$423.64	\$0.00
6. TOTAL COSTS:				\$5,933.43	\$0.00
7. NET RETURNS TO RISK AND MANAGEMENT:				\$66.57	\$0.00

BREAK-EVEN YIELD			BREAK-EVEN PRICE PER CWT	
VARIABLE COSTS	454	BOX	VARIABLE COSTS	\$8.90
TOTAL COSTS	584	BOX	TOTAL COSTS	\$9.89

* 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 \$45 AND GREENHOUSE TRANSPLANT AT HIGHER-END OF \$21/1000 PLANTS.

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	\$3.17	\$3.78
7	DISK W/ SPRAYER 16'	1.00	0.17	0.15	\$2.40	\$3.38
8	SUBSOILER BEDDER 2-ROW	1.00	0.50	0.45	\$4.58	\$4.90
8	TRANSPLANTER 2-ROW	1.00	2.52	2.29	\$16.33	\$23.29
9&10	CULTIVATOR 2-ROW	3.00	1.85	1.68	\$11.58	\$12.54
8-11	PULL TYPE SPRAYER	9.00	1.78	1.62	\$13.77	\$23.13
7-10	NURSE TANK ON PICK-UP	7.00	1.31	1.19	\$8.68	\$10.57
9-10	SIDEDRESSER 2-ROW	2.00	1.23	1.12	\$10.76	\$9.54
8	TRUCK 1.5 TON	1.00	0.25	0.23	\$1.67	\$2.23
PER ACRE TOTALS FOR SELECTED OPERATIONS			9.78	8.88	\$72.94	\$93.36
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	\$8.00	\$9.00	\$10.00	\$11.00	\$12.00
480	-\$843.78	-\$363.78	\$116.22	\$596.22	\$1,076.22
540	-\$690.78	-\$150.78	\$389.22	\$929.22	\$1,469.22
600	-\$537.78	\$62.22	\$662.22	\$1,262.22	\$1,862.22
660	-\$384.78	\$275.22	\$935.22	\$1,595.22	\$2,255.22
720	-\$231.78	\$488.22	\$1,208.22	\$1,928.22	\$2,648.22

CHEMICAL USE ASSUMPTIONS FOR FALL CABBAGE					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES					
trifluralin (Treflan EC)	PT	1.50	\$3.22	\$4.83	1X AUG
metolachlor (Dual Magnum)	OZ	12.00	\$0.91	\$10.88	1X AUG
INSECTICIDES					
imidacloprid (Admire Pro)*	OZ	10.50	\$1.73	\$18.17	1X AUG
bacillus thuringiensis (Dipel)*	LB	1.00	\$9.23	\$9.23	2X AUG, 2X SEP, 1X OCT
spinetoram (Radiant)*	OZ	8.00	\$7.00	\$55.97	1X AUG, 1X SEP
rynaxapyr (Coragen)*	OZ	5.00	\$8.16	\$40.82	1X AUG
bacillus thuringiensis (Xentari)	LB	1.00	\$13.85	\$13.85	2X AUG, 2X SEP, 1X OCT
FUNGICIDES					
chlorothalonil (Bravo)	PT	5.40	\$5.56	\$30.04	1X AUG, 1X SEP, 1X OCT
potassium phosphite (Prophyt)	PT	3.00	\$4.50	\$13.50	1X SEP, 1X OCT
TOTAL:				\$197.29	

* The bacillus thuringiensis products should be the mainstay of caterpillar management program. Radiant/Spintor, Proclaim, Intrepid, Coragen/Synapse and Avaunt should be rotated to control caterpillars not responding to the bacillus thuringiensis products. If insects other than caterpillars are problematic, the vegetable crop guide mentioned below can be consulted for additional crop protection recommendations.

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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