

# CLEMSON COOPERATIVE EXTENSION

Last revised: 1/15/2016

<b>SPRING CABBAGE - IRRIGATED</b>					
ESTIMATED COSTS AND RETURNS PER ACRE					
700 BOXES (50 LBS PER BOX) - HARVEST IN MAY					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
<b>1. GROSS RECEIPTS</b>					
CABBAGE	BOX	700.00	\$12.00	\$8,400.00	_____
TOTAL RECEIPTS:				<b>\$8,400.00</b>	<b>\$0.00</b>
<b>2. VARIABLE COSTS</b>					
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	\$4.83	\$4.83	_____
INSECTICIDES	ACRE	1.00	\$163.87	\$163.87	_____
FUNGICIDES	ACRE	1.00	\$30.19	\$30.19	_____
SPREADER/STICKER	ACRE	1.00	\$2.80	\$2.80	_____
TRANSPLANT LABOR	HRS	10.00	\$9.00	\$90.00	_____
IRRIGATION, MACHINERY & LABOR	ACRE	1.00	\$127.20	\$127.20	_____
HARVEST & HAULING	BOX	700.00	\$2.75	\$1,925.00	_____
CABBAGE BOXES	EACH	700.00	\$1.95	\$1,365.00	_____
MARKETING	BOX	700.00	\$0.75	\$525.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$64.04	\$64.04	_____
LABOR	HRS	18.05	\$9.50	\$171.48	_____
INTEREST ON OP. CAP.	DOL.	\$2,788.71	5.0%	\$139.44	_____
TOTAL VARIABLE COSTS:				<b>\$5,716.85</b>	<b>\$0.00</b>
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				<b>\$2,683.15</b>	<b>\$0.00</b>
<b>4. FIXED COSTS</b>					
TRACTOR/MACHINERY	ACRE	1.00	\$81.47	\$81.47	_____
IRRIGATION	ACRE	1.00	\$76.80	\$76.80	_____
TOTAL FIXED COSTS:				<b>\$158.27</b>	<b>\$0.00</b>
<b>5. OTHER COSTS</b>					
LAND RENT	ACRE	1.00	\$50.00	\$50.00	_____
GENERAL OVERHEAD	DOL.	\$5,716.85	7.0%	\$400.18	_____
TOTAL OTHER COSTS:				<b>\$450.18</b>	<b>\$0.00</b>
<b>6. TOTAL COSTS:</b>				<b>\$6,325.30</b>	<b>\$0.00</b>
<b>7. NET RETURNS TO RISK AND MANAGEMENT:</b>				<b>\$2,074.70</b>	<b>\$0.00</b>

<b>BREAK-EVEN YIELD</b>		<b>BREAK-EVEN PRICE PER CWT</b>	
VARIABLE COSTS	290 BOX	VARIABLE COSTS	\$8.17
TOTAL COSTS	364 BOX	TOTAL COSTS	\$9.04

\* 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	\$3.17	\$3.78
1	DISK W/ SPRAYER 16'	1.00	0.17	0.15	\$2.40	\$3.38
2	SUBSOILER-BEDDER 4-ROW	1.00	0.21	0.19	\$3.64	\$2.86
2	TRANSPLANTER 2-ROW	1.00	2.52	2.29	\$16.33	\$23.29
3&4	CULTIVATOR 4-ROW	2.00	0.51	0.46	\$4.72	\$4.54
2-5	PULL TYPE SPRAYER	8.00	1.58	1.44	\$12.24	\$20.56
2-5	NURSE TANK ON PICK-UP	6.00	1.12	1.02	\$7.44	\$9.06
3&4	SIDEDRESSER 2-ROW	2.00	1.23	1.12	\$10.76	\$9.54
2&5	TRUCK 1.5 TON	2.00	0.51	0.46	\$3.34	\$4.46
PER ACRE TOTALS FOR SELECTED OPERATIONS			8.02	7.28	\$64.04	\$81.47
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	\$9.60	\$10.80	\$12.00	\$13.20	\$14.40
560	\$422.15	\$1,094.15	\$1,766.15	\$2,438.15	\$3,110.15
630	\$712.65	\$1,468.65	\$2,224.65	\$2,980.65	\$3,736.65
700	\$1,003.15	\$1,843.15	\$2,683.15	\$3,523.15	\$4,363.15
770	\$1,293.65	\$2,217.65	\$3,141.65	\$4,065.65	\$4,989.65
840	\$1,584.15	\$2,592.15	\$3,600.15	\$4,608.15	\$5,616.15

CHEMICAL USE ASSUMPTIONS FOR SPRING CABBAGE					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
<b>HERBICIDES</b>					
trifluralin (Treflan EC)	PT	1.50	\$3.22	\$4.83	1X JAN
<b>INSECTICIDES</b>					
acetamiprid (Assail 30 SG)	OZ	4.00	\$5.90	\$23.60	1X MAY
bacillus thuringiensis (Dipel)*	LB	1.00	\$9.23	\$9.23	1X APR, 1X MAY
spinetoram (Radiant)*	OZ	8.00	\$7.00	\$55.97	1X MAY
spinosad (Spintor)	OZ	4.00	\$5.10	\$20.40	1X APR, 1X MAY
rynaxapyr (Coragen)	OZ	5.00	\$8.16	\$40.82	1X APR
bacillus thuringiensis (Xentari)	LB	1.00	\$13.85	\$13.85	1X MAR, 2X APR, 1X MAY
<b>FUNGICIDES</b>					
chlorothalonil (Bravo)	PT	3.00	\$5.56	\$16.69	1X APR, 1X MAY
potassium phosphite (Prophyt)	PT	3.00	\$4.50	\$13.50	1X APR, 1X MAY
<b>TOTAL:</b>				\$198.89	

\* The bacillus thuringiensis products should be the mainstay of caterpillar management program. Radiant, Proclaim, and Intrepid 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.

OF SOUTH CAROLINA, CLEMSON UNIVERSITY, U.S. DEPARTMENT OF AGRICULTURE, AND SOUTH CAROLINA COUNTIES COOPERATING.