

CLEMSON

EXTENSION

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COLLARDS - IRRIGATED (HAND HARVEST)

ESTIMATED COSTS AND RETURNS PER ACRE, 2008/2009
600 BOXES - (20 LBS) HARVEST IN OCTOBER

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
COLLARDS ***	BOX	600.00	\$7.50	\$4,500.00	_____
TOTAL RECEIPTS:				\$4,500.00	_____
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	\$135.43	\$135.43	_____
FUNGICIDES	ACRE	1.00	\$105.90	\$105.90	_____
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	_____
COLLARD BOXES	EACH	600.00	\$1.35	\$810.00	_____
MARKETING	BOX	600.00	\$0.50	\$300.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$63.26	\$63.26	_____
LABOR	HRS	21.67	\$6.50	\$140.86	_____
INTEREST ON OP. CAP.	DOL.	\$508.56	9.0%	\$45.77	_____
TOTAL VARIABLE COSTS:				\$3,213.74	_____
3. INCOME ABOVE VARIABLE COSTS:				\$1,286.26	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$99.00	\$99.00	_____
IRRIGATION	ACRE	1.00	\$141.66	\$141.66	_____
TOTAL FIXED COSTS:				\$240.66	_____
5. OTHER COSTS					
LAND RENT	ACRE	1.00	\$25.00	\$25.00	_____
GENERAL OVERHEAD	DOL.	\$3,213.74	9.0%	\$289.24	_____
TOTAL OTHER COSTS:				\$314.24	_____
6. TOTAL COSTS:				\$3,768.64	_____
7. NET RETURNS TO RISK AND MANAGEMENT:				\$731.36	_____

<u>BREAK-EVEN YIELD</u>		<u>BREAK-EVEN PRICE PER BOX</u>	
VARIABLE COSTS	290 BOX	VARIABLE COSTS	\$5.36
TOTAL COSTS	410 BOX	TOTAL COSTS	\$6.28

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

** BASED ON IMPROVED PRODUCTION PRACTICES FOR COMMERCIAL PRODUCERS.

*** APPROXIMATELY EIGHTEEN PLANTS PER BOX. WEIGHT OF BOX IS 18-20 POUNDS.

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

COLLARDS - IRRIGATED (HAND HARVEST)						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR COLLARDS						
MONTH	OPERATION	TIMES	LABOR	MACHINE	VARIABLE	FIXED
		OVER	HOURS	HOURS	COSTS	COSTS
7	DISK W/ SPRAYER 16'	1.00	0.17	0.15	\$2.00	\$3.42
8	SUBSOILER-BEDDER 4-ROW	1.00	0.21	0.19	\$3.05	\$2.87
8	TRANSPLANTER 2-ROW	1.00	2.52	2.29	\$13.74	\$24.23
8&9	SIDEDRESSER 2-ROW	2.00	1.23	1.12	\$9.04	\$9.90
8,9,10&11	NURSE TANK ON PICK-UP	10.00	1.87	1.70	\$10.50	\$16.00
8,9&10	CULTIVATOR 4-ROW	3.00	0.76	0.69	\$5.94	\$7.11
8,9&10	PULL TYPE SPRAYER	9.00	1.78	1.62	\$11.61	\$24.39
10	TRUCK 1.5 TON	3.00	0.76	0.69	\$4.32	\$6.66
8&10	FARM WAGON	2.00	0.33	0.30	\$3.06	\$4.42
PER ACRE TOTALS FOR SELECTED OPERATIONS			9.63	8.75	\$63.26	\$99.00
UNALLOCATED LABOR(HRS./AC.)			12.04			

Note: Ten inches of water is applied using a 10 acre cable tow travel gun irrigation system. Two applications are put down in each month of August, September and 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. Approximately three plants per bunch. Six bunches per box. Weight of box is 18-20 pounds.

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD BOX	PRICE PER BOX					
	\$6.00	\$6.75	\$7.50	\$8.25	\$9.00	
480	\$68.26	\$428.26	\$788.26	\$1,148.26	\$1,508.26	
540	\$227.26	\$632.26	\$1,037.26	\$1,442.26	\$1,847.26	
600	\$386.26	\$836.26	\$1,286.26	\$1,736.26	\$2,186.26	
660	\$545.26	\$1,040.26	\$1,535.26	\$2,030.26	\$2,525.26	
720	\$704.26	\$1,244.26	\$1,784.26	\$2,324.26	\$2,864.26	

CHEMICAL USE ASSUMPTIONS FOR COLLARDS						
	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	
bacillus thuringiensis (Xentari)	LB	10.50	\$11.25	\$118.13	3X SEPT, 3X OCT 1X NOV	
FUNGICIDES						
fosetyl-AI (Aliette)	LB	6.00	\$10.35	\$62.10	1X OCT, 1X NOV	
azoxystrobin (Amistar)	OZ	4.00	\$5.63	\$22.50	1X SEP	
cupric hydroxide (Kocide)	LB	7.50	\$2.84	\$21.30	1X AUG, 1X SEP 1X OCT	
TOTAL:				\$246.06		

* The bacillus thuringiensis products should be the mainstay of caterpillar management program. Spintor, Proclaim, and Intrepid should be rotated to 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) 284-3343, jpsmith@clemson.edu.

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