

# CLEMSON

## EXTENSION

Department of Applied Economics and Statistics

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### GREENS - SPRING (HAND HARVEST) - IRRIGATED

ESTIMATED COSTS AND RETURNS PER ACRE, 2008/2009  
400 BOXES - HARVEST IN MAY

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
<b>1. GROSS RECEIPTS</b>					
GREENS	BOX	400.00	\$7.00	\$2,800.00	_____
TOTAL RECEIPTS:				<b>\$2,800.00</b>	_____
<b>2. VARIABLE COSTS</b>					
SEED	LBS	3.00	\$5.00	\$15.00	_____
FERTILIZER					
5-10-10 (SPREAD)	CWT	12.00	\$12.63	\$151.56	_____
SIDE DRESSING 33.5% N	CWT	2.00	\$40.30	\$80.60	_____
LIME (PRORATED)	TON	1.00	\$52.50	\$52.50	_____
HERBICIDES	ACRE	1.00	\$4.73	\$4.73	_____
INSECTICIDES	ACRE	1.00	\$60.35	\$60.35	_____
IRRIGATION, MACHINERY & LABOR	ACRE	1.00	\$63.60	\$63.60	_____
HARVEST, PACKING & HAULING	BOX	400.00	\$2.00	\$800.00	_____
BOXES	EACH	400.00	\$1.35	\$540.00	_____
MARKETING	BOX	400.00	\$0.50	\$200.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$55.18	\$55.18	_____
LABOR	HRS	17.73	\$6.50	\$115.25	_____
INTEREST ON OP. CAP.	DOL.	\$241.76	9.0%	\$21.76	_____
TOTAL VARIABLE COSTS:				<b>\$2,160.53</b>	_____
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				<b>\$639.47</b>	_____
<b>4. FIXED COSTS</b>					
TRACTOR/MACHINERY	ACRE	1.00	\$79.65	\$79.65	_____
IRRIGATION	ACRE	1.00	\$141.66	\$141.66	_____
TOTAL FIXED COSTS:				<b>\$221.31</b>	_____
<b>5. OTHER COSTS</b>					
LAND RENT	ACRE	1.00	\$25.00	\$25.00	_____
GENERAL OVERHEAD	DOL.	\$2,160.53	9.0%	\$194.45	_____
TOTAL OTHER COSTS:				<b>\$219.45</b>	_____
<b>6. TOTAL COSTS:</b>				<b>\$2,601.29</b>	_____
<b>7. NET RETURNS TO RISK AND MANAGEMENT:</b>				<b>\$198.71</b>	_____

#### BREAK-EVEN YIELD

VARIABLE COSTS	197	BOX
TOTAL COSTS	329	BOX

#### BREAK-EVEN PRICE PER BOX

VARIABLE COSTS	\$5.40
TOTAL COSTS	\$6.50

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

\*\* BASED ON IMPROVED PRODUCTION PRACTICES FOR COMMERCIAL PRODUCERS.

\*\*\* A BOX CONTAINS FOUR DOZEN BUNCHES WITH ABOUT SIX PLANTS PER BUNCH.

GREENS - SPRING (HAND HARVEST) - IRRIGATED						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR GREENS						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
3	HEAVY DISK 14'	1.00	0.17	0.15	\$2.67	\$3.92
3	DISK W/ SPRAYER 16'	1.00	0.17	0.15	\$2.00	\$3.42
3	SUBSOILER-BEDDER 4-ROW	1.00	0.21	0.19	\$3.05	\$2.87
3	PRECISION PLANTER 4-ROW	1.00	0.22	0.20	\$2.84	\$4.42
4&5	SIDEDRESSER 2-ROW	2.00	1.23	1.12	\$9.04	\$9.90
4,5&6	CULTIVATOR 2-ROW	3.00	1.85	1.68	\$9.75	\$13.14
4&5	PULL TYPE SPRAYER	4.00	0.79	0.72	\$5.16	\$10.84
3&6	TRUCK 1.5 TON	5.00	1.27	1.15	\$7.20	\$11.10
4,5&6	NURSE TANK ON PICK-UP	7.00	1.31	1.19	\$7.35	\$11.20
6	FARM WAGON	4.00	0.66	0.60	\$6.12	\$8.84
PER ACRE TOTALS FOR SELECTED OPERATIONS			7.88	7.15	\$55.18	\$79.65
UNALLOCATED LABOR(HRS./AC.)			9.85			
Note: Eight inches of water is applied using a 10 acre cable tow travel gun irrigation system. Three applications per month are put down in March (1),April (3), and May (2). 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 BOX				
BOXES	\$5.60	\$6.30	\$7.00	\$7.70	\$8.40
320	-\$60.53	\$163.47	\$387.47	\$611.47	\$835.47
360	\$9.47	\$261.47	\$513.47	\$765.47	\$1,017.47
400	\$79.47	\$359.47	\$639.47	\$919.47	\$1,199.47
440	\$149.47	\$457.47	\$765.47	\$1,073.47	\$1,381.47
480	\$219.47	\$555.47	\$891.47	\$1,227.47	\$1,563.47

CHEMICAL USE ASSUMPTIONS FOR GREENS					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES					
trifluralin (Treflan EC)	PT	1.50	\$3.15	\$4.73	1X FEB
INSECTICIDES					
imidacloprid (Provado)	OZ	3.50	\$2.78	\$9.72	1X APR
bacillus thuringiensis (Xentari)	LB	4.50	\$11.25	\$50.63	2X APR, 1X MAY
TOTAL:				\$65.08	
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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