

CLEMSON EXTENSION

Department of Applied Economics and Statistics

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BELL PEPPERS - ON PLASTIC - DRIP IRRIGATION

ESTIMATED COSTS AND RETURNS PER ACRE, 2008/2009
1500 CARTONS (30 LBS)

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
BELL PEPPERS	CRTN	1500	\$10.00	\$15,000.00	_____
TOTAL RECEIPTS:				\$15,000.00	_____
2. VARIABLE COSTS					
SEEDLINGS	EACH	14500.00	\$0.100	\$1,450.00	_____
FERTILIZER					
5-10-10 (SPREAD)	CWT	12.00	\$12.63	\$151.56	_____
7-0-7 SIDE DRESSING (LIQ)	CWT	60.00	\$13.13	\$787.80	_____
LIME (PRORATED)	TON	0.33	\$52.50	\$17.33	_____
HERBICIDES	ACRE	1.00	\$4.73	\$4.73	_____
INSECTICIDES	ACRE	1.00	\$62.21	\$62.21	_____
FUNGICIDES	ACRE	1.00	\$9.63	\$9.63	_____
NEMATICIDES	ACRE	1.00	\$976.50	\$976.50	_____
TRANSPLANT LABOR	HRS	21.00	\$7.50	\$157.50	_____
PLASTIC MULCH - 60 INCH	FT.	7200.00	\$0.05	\$360.00	_____
TAKE UP PLASTIC	ACRE	1.00	\$100.00	\$100.00	_____
DRIP TAPE & ACCESSORIES	ACRE	1.00	\$300.00	\$300.00	_____
IRRIGATION, MACHINERY & LABOR	ACRE	1.00	\$195.04	\$195.04	_____
HARVEST & HAULING	CRTN	1500.00	\$1.75	\$2,625.00	_____
GRADING & PACKING	CRTN	1500.00	\$1.50	\$2,250.00	_____
MARKETING	CRTN	1500.00	\$0.55	\$825.00	_____
CARTON	EACH	1500.00	\$1.75	\$2,625.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$63.79	\$63.79	_____
LABOR	HRS	19.10	\$8.00	\$152.80	_____
INTEREST ON OP. CAP.	DOL.	\$2,318.05	9.0%	\$208.62	_____
TOTAL VARIABLE COSTS:				\$13,322.51	_____
3. INCOME ABOVE VARIABLE COSTS:				\$1,677.49	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$97.23	\$97.23	_____
IRRIGATION	ACRE	1.00	\$96.63	\$96.63	_____
TOTAL FIXED COSTS:				\$193.86	_____
5. OTHER COSTS					
LAND RENT	ACRE	1.00	\$25.00	\$25.00	_____
GENERAL OVERHEAD	DOL.	\$13,322.51	9.0%	\$1,199.03	_____
TOTAL OTHER COSTS:				\$1,224.03	_____
6. TOTAL COSTS:				\$14,740.40	_____
7. NET RETURNS TO RISK AND MANAGEMENT:				\$259.60	_____

BREAK-EVEN YIELD

VARIABLE COSTS	1123 CRTN
TOTAL COSTS	1434 CRTN

BREAK-EVEN PRICE PER CARTON

VARIABLE COSTS	\$8.88
TOTAL COSTS	\$9.83

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

** BASED ON IMPROVED PRODUCTION PRACTICES FOR COMMERCIAL PRODUCERS.

*** HARVEST: 20% JULY, 40% AUGUST, AND 40% SEPTEMBER

BELL PEPPERS - ON PLASTIC - DRIP IRRIGATION						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR BELL PEPPERS ON PLASTIC						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
3	4-BOTTOM FLIP PLOW	1.00	0.28	0.25	\$2.91	\$2.41
3	HEAVY DISK 14'	1.00	0.17	0.15	\$2.67	\$3.92
3	SUBSOILER-BEDDER 4-ROW	1.00	0.21	0.19	\$3.05	\$2.87
3	DISK W/ SPRAYER 16'	1.00	0.17	0.15	\$2.00	\$3.42
3	MULCH BEDDER-LAYER	1.00	0.57	0.52	\$7.19	\$10.00
4	TRANSPLANTER 2-ROW	1.00	2.52	2.29	\$13.74	\$24.23
5-6	CULTIVATOR 2-ROW	1.00	0.62	0.56	\$3.25	\$4.38
5&6	PULL TYPE SPRAYER	4.00	0.79	0.72	\$5.16	\$10.84
4,5&6	NURSE TANK ON PICK-UP	4.00	0.75	0.68	\$4.20	\$6.40
4	TRUCK 1.5 TON	3.00	0.76	0.69	\$4.32	\$6.66
7,8&9	FARM WAGON	10.00	1.65	1.50	\$15.30	\$22.10
PER ACRE TOTALS FOR SELECTED OPERATIONS			8.49	7.70	\$63.79	\$97.23
UNALLOCATED LABOR(HRS./AC.)			10.61			

Note: Twenty inches of water is applied using a 10 acre drip irrigation system. The variable cost includes provisions for the annual replacement of 62,228 feet of 0.38 gpm drip tape at \$0.02 per foot and other items that are replaced annually. The fixed cost includes the well, a 36 gpm pump and other items do not have to be replaced annually.

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD	PRICE PER CARTON (30 LBS)					
CRTN	\$8.00	\$9.00	\$10.00	\$11.00	\$12.00	
1200	-\$2,057.51	-\$857.51	\$342.49	\$1,542.49	\$2,742.49	
1350	-\$1,690.01	-\$340.01	\$1,009.99	\$2,359.99	\$3,709.99	
1500	-\$1,322.51	\$177.49	\$1,677.49	\$3,177.49	\$4,677.49	
1650	-\$955.01	\$694.99	\$2,344.99	\$3,994.99	\$5,644.99	
1800	-\$587.51	\$1,212.49	\$3,012.49	\$4,812.49	\$6,612.49	

CHEMICAL USE ASSUMPTIONS FOR BELL PEPPERS ON PLASTIC						
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH	
HERBICIDES						
trifluralin (Treflan EC)	PT	1.50	\$3.15	\$4.73	1X MAR	
INSECTICIDES						
esfenvalerate (Asana)	OZ	23.10	\$0.69	\$16.00	1X MAY, 2X JUN	
spinosad (Spintor)	OZ	6.00	\$4.32	\$25.95	1X JUN	
acephate (Orthene)	LB	2.00	\$10.13	\$20.26	1X MAY, 1X JUN	
FUNGICIDES						
maneb	LB	1.50	\$2.63	\$3.95	1X MAY	
cupric hydroxide (Kocide)	LB	2.00	\$2.84	\$5.68	1X MAY	
NEMATOCIDES						
methyl bromide+chloropicrin (Terr-O-Gas),LB		350.00	\$2.79	\$976.50	1X MAR	
TOTAL:				\$1,053.07		

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 Richard Hassel, (843) 402-5394, rhassel@clemson.edu.

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