

CLEMSON

EXTENSION

Department of Applied Economics and Statistics

Phone: 864-656-3475



CANTALOUPE - ON PLASTIC - DRIP IRRIGATION

ESTIMATED COSTS AND RETURNS PER ACRE, 2008/2009
250 HUNDREDWEIGHT - HARVEST IN JUNE

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
CANTALOUPE	CWT	250.00	\$16.00	\$4,000.00	_____
TOTAL RECEIPTS:				\$4,000.00	_____
2. VARIABLE COSTS					
SEED & TRANSPLANT	THOU.	3.63	\$108.27	\$393.02	_____
FERTILIZER					
12-24-18	LBS	330.00	\$0.19	\$62.70	_____
8-0-8 (LIQ.)	GAL	100.00	\$1.50	\$150.00	_____
LIME (PRORATED)	TON	0.33	\$52.50	\$17.33	_____
HERBICIDES	ACRE	1.00	\$77.62	\$77.62	_____
INSECTICIDES	ACRE	1.00	\$12.39	\$12.39	_____
FUNGICIDES	ACRE	1.00	\$36.44	\$36.44	_____
NEMATOCIDES	ACRE	1.00	\$558.00	\$558.00	_____
PLASTIC MULCH - 54" WIDE	FT.	6222.80	\$0.05	\$311.14	_____
MULCH REMOVAL	ACRE	1.00	\$100.00	\$100.00	_____
DRIP TAPE & ACCESSORIES	ACRE	1.00	\$300.00	\$300.00	_____
IRRIGATION, MACHINERY & LABOR	ACRE	1.00	\$156.50	\$156.50	_____
HARVEST & HAULING	CWT	250.00	\$2.50	\$625.00	_____
CONTAINER	EACH	250.00	\$1.75	\$437.50	_____
TRACTOR/MACHINERY	ACRE	1.00	\$42.48	\$42.48	_____
LABOR	HRS	14.13	\$6.50	\$91.85	_____
INTEREST ON OP. CAP.	DOL.	\$1,108.81	9.0%	\$99.79	_____
TOTAL VARIABLE COSTS:				\$3,471.76	_____
3. INCOME ABOVE VARIABLE COSTS:				\$528.24	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$59.75	\$59.75	_____
IRRIGATION	ACRE	1.00	\$79.58	\$79.58	_____
TOTAL FIXED COSTS:				\$139.33	_____
5. OTHER COSTS					
LAND RENT	ACRE	1.00	\$25.00	\$25.00	_____
GENERAL OVERHEAD	DOL.	\$3,471.76	9.0%	\$312.46	_____
TOTAL OTHER COSTS:				\$337.46	_____
6. TOTAL COSTS:				\$3,948.55	_____
7. NET RETURNS TO RISK AND MANAGEMENT:				\$51.45	_____

BREAK-EVEN YIELD

VARIABLE COSTS	205	CWT
TOTAL COSTS	245	CWT

BREAK-EVEN PRICE PER CWT

VARIABLE COSTS	\$13.89
TOTAL COSTS	\$15.79

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

** BASED ON IMPROVED PRODUCTION PRACTICES FOR COMMERCIAL PRODUCERS.

CANTALOUPE - ON PLASTIC - DRIP IRRIGATION						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR CANTALOUPE ON PLASTIC						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
3	DISK W/ SPRAYER 16'	1.00	0.17	0.15	\$2.00	\$3.42
3	SUBSOILER BEDDER 2-ROW	1.00	0.50	0.45	\$3.85	\$5.09
3	PLANTER 1-ROW	1.00	1.82	1.65	\$9.16	\$11.62
3	MULCH BEDDER-LAYER	1.00	0.57	0.52	\$7.19	\$10.00
3,4,5&6	TRACTOR MTD SPRAYER	14.00	2.46	2.24	\$15.96	\$22.96
3&4	TRUCK 1.5 TON	3.00	0.76	0.69	\$4.32	\$6.66
PER ACRE TOTALS FOR SELECTED OPERATIONS			6.28	5.70	\$42.48	\$59.75
UNALLOCATED LABOR(HRS./AC.)			7.85			
Note: Eleven 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 cost of the well, a 36 gpm pump and other items that do not have to be replaced annually.						

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES					
YIELD	PRICE (\$/CWT)				
CWT	\$12.80	\$14.40	\$16.00	\$17.60	\$19.20
200	-\$699.26	-\$379.26	-\$59.26	\$260.74	\$580.74
225	-\$485.51	-\$125.51	\$234.49	\$594.49	\$954.49
250	-\$271.76	\$128.24	\$528.24	\$928.24	\$1,328.24
275	-\$58.01	\$381.99	\$821.99	\$1,261.99	\$1,701.99
300	\$155.74	\$635.74	\$1,115.74	\$1,595.74	\$2,075.74

CHEMICAL USE ASSUMPTIONS FOR CANTALOUPE ON PLASTIC					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES					
ethalfuralin (Curbit)	PT	3.00	\$5.09	\$15.26	1X MAY
naphthalam (Analap)	QT	6.00	\$8.44	\$50.63	1X APR, 1X MAY
sethoxydim (Poast)	PT	1.50	\$7.82	\$11.73	1X APR
INSECTICIDES					
endosulfan (Thiodan)	GAL	0.30	\$27.90	\$8.37	1X MAY
esfenvalerate (Asana)	OZ	5.80	\$0.69	\$4.02	1X JUN
FUNGICIDES					
chlorothalonil (Bravo)	PT	3.00	\$3.56	\$10.69	2X MAY
azoxystrobin (Quadris)	OZ	4.00	\$1.79	\$7.15	2X JUL, 1X JUL
mancozeb (Manzate)	LB	7.50	\$2.48	\$18.60	2X JUL, 1X JUL
NEMATICIDES					
methyl bromide+chloropicrin (Terr-O-Gas)	LB	200.00	\$2.79	\$558.00	1X MAR
TOTAL:				\$684.45	
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 Gilbert Miller, (803) 284-3343, gmlr@clemson.edu.					

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