

CLEMSON COOPERATIVE EXTENSION

Last revised: 1/15/2016

CANTALOUPE - ON PLASTIC - DRIP IRRIGATION					
ESTIMATED COSTS AND RETURNS PER ACRE					
300 HUNDREDWEIGHT - HARVEST IN JUNE					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
CANTALOUPES	CWT	300.00	\$16.00	\$4,800.00	_____
TOTAL RECEIPTS:				\$4,800.00	\$0.00
2. VARIABLE COSTS					
SEED & TRANSPLANT	THOU.	3.63	\$165.00	\$598.95	_____
FERTILIZER					
12-24-18	LBS	300.00	\$0.29	\$87.00	_____
8-0-8 (LIQ.)	GAL	100.00	\$1.95	\$195.00	_____
LIME (PRORATED)	TON	0.33	\$45.00	\$14.85	_____
HERBICIDES	ACRE	1.00	\$110.83	\$110.83	_____
INSECTICIDES	ACRE	1.00	\$52.79	\$52.79	_____
FUNGICIDES	ACRE	1.00	\$79.66	\$79.66	_____
NEMATOCIDES (FUMIGATION)	ACRE	1.00	\$960.00	\$960.00	_____
PLASTIC MULCH - 54" WIDE	FT.	6222.80	\$0.03	\$186.68	_____
MULCH REMOVAL	ACRE	1.00	\$150.00	\$150.00	_____
DRIP TAPE & ACCESSORIES	ACRE	1.00	\$200.00	\$200.00	_____
IRRIGATION, MACHINERY & LABOR	ACRE	1.00	\$156.50	\$156.50	_____
HARVEST & HAULING	CWT	300.00	\$2.75	\$825.00	_____
CONTAINER	EACH	300.00	\$1.95	\$585.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$50.23	\$50.23	_____
LABOR	HRS	14.13	\$9.50	\$134.24	_____
INTEREST ON OP. CAP.	DOL.	\$2,193.37	5.0%	\$109.67	_____
TOTAL VARIABLE COSTS:				\$4,496.40	\$0.00
3. INCOME ABOVE VARIABLE COSTS:				\$303.60	\$0.00
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$57.69	\$57.69	_____
IRRIGATION	ACRE	1.00	\$79.58	\$79.58	_____
TOTAL FIXED COSTS:				\$137.27	\$0.00
5. OTHER COSTS					
LAND RENT	ACRE	1.00	\$50.00	\$50.00	_____
GENERAL OVERHEAD	DOL.	\$4,496.40	7.0%	\$314.75	_____
TOTAL OTHER COSTS:				\$364.75	\$0.00
6. TOTAL COSTS:				\$4,998.42	\$0.00
7. NET RETURNS TO RISK AND MANAGEMENT:				-\$198.42	\$0.00

BREAK-EVEN YIELD		BREAK-EVEN PRICE PER CWT	
VARIABLE COSTS	273 CWT	VARIABLE COSTS	\$14.99
TOTAL COSTS	318 CWT	TOTAL COSTS	\$16.66

* 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	\$2.40	\$3.38
3	SUBSOILER BEDDER 2-ROW	1.00	0.50	0.45	\$4.58	\$4.90
3	PLANTER 1-ROW	1.00	1.82	1.65	\$10.91	\$11.02
3	MULCH BEDDER-LAYER	1.00	0.57	0.52	\$8.43	\$9.72
3,4,5&6	TRACTOR MTD SPRAYER	14.00	2.46	2.24	\$18.90	\$21.98
3&4	TRUCK 1.5 TON	3.00	0.76	0.69	\$5.01	\$6.69
PER ACRE TOTALS FOR SELECTED OPERATIONS			6.28	5.70	\$50.23	\$57.69
UNALLOCATED LABOR(HRS./AC.)			7.85			
<small>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.</small>						

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES					
YIELD	PRICE (\$/CWT)				
CWT	\$12.80	\$14.40	\$16.00	\$17.60	\$19.20
240	-\$1,142.40	-\$758.40	-\$374.40	\$9.60	\$393.60
270	-\$899.40	-\$467.40	-\$35.40	\$396.60	\$828.60
300	-\$656.40	-\$176.40	\$303.60	\$783.60	\$1,263.60
330	-\$413.40	\$114.60	\$642.60	\$1,170.60	\$1,698.60
360	-\$170.40	\$405.60	\$981.60	\$1,557.60	\$2,133.60

CHEMICAL USE ASSUMPTIONS FOR CANTALOUPE ON PLASTIC					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES					
ethalfuralin (Curbit)	PT	3.00	\$5.25	\$15.75	1X MAY
halosulfuron-methyl (Sandae)	OZ	0.75	\$0.27	\$0.20	1X APR, 1X MAY
sethoxydim (Poast)	PT	1.50	\$13.25	\$19.88	1X APR
clomazone + ethalfuralin (Strategy)	PT	4.00	\$18.75	\$75.00	1X APR
INSECTICIDES					
endosulfan (Thiodan)	GAL	0.30	\$165.00	\$49.50	1X MAY
esfenvalerate (Asana)	OZ	5.80	\$0.57	\$3.29	1X JUN
FUNGICIDES					
chlorothalonil (Bravo)	PT	3.00	\$5.56	\$16.69	2X MAY
tebuconazole(Folicur)	OZ	5.00	\$1.09	\$5.47	2X JUL, 1X JUL
mancozeb (Manzate)	LB	7.50	\$4.75	\$35.63	2X JUL, 1X JUL
propamocarb hydrochloride (Previcur Flex)	PT	1.20	\$11.75	\$14.10	1X JUN
zoxamide+mancozeb (Gavel 75DF)	LB	1.50	\$5.18	\$7.77	1X JUN
NEMATOCIDES					
methyl bromide+chloropicrin (Bro-Mean C-50)	LB	200.00	\$4.80	\$960.00	1X MAR
TOTAL:				\$1,203.28	

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.