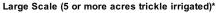
WATERMELON (Seeded), FRESH MARKET, TRICKLE IRRIGATED Kentucky Estimated per Acre Costs and Returns for 2022



NOT TO BE CONSIDERED CROPPING RECOMMENDATIONS OR PROFITABILITY PROJECTIONS. FOR COMPARISONAND PLANNING PURPOSES ONLY.



Quantity Unit \$/Unit Total **GROSS RETURNS** cwt 60 bins \$115.00 \$6,900.00 a,b Harvest Labor 4.17 cwt/hour

Watermelons, Seeded	60	bins	\$115.00		6,900.00	a,b	Harvest Labor 4.17 cwt/hou
				\$	-		
Total Returns				\$	6,900.00		
VARIABLE COSTS							Your Numbers
Production						l [
Watermelon Transplants	1815	plants	\$ 0.18	\$	326.70	l [
N Fertilizer: Urea	100	lbs	\$ 0.40	\$	40.00		
K Fertilizer: Potash (0-0-60)	80	lbs	\$ 0.60	\$	48.00		
N Fertilizer: Fertigation (Calcium Nitrate)	340	lbs	\$ 0.65	\$	221.00	g	
Plastic Mulch	1	acre	\$245.00	\$	245.00	С	
Drip Lines & Irrigation Fittings	1	acre	\$230.00	\$	230.00	С	
Pollination	1	hive	\$ 75.00	\$	75.00	h	
Herbicides (Row Middles)	1	acre	\$ 10.47	\$	10.47	d	
Insecticides	1	acre	\$ 86.00	\$	86.00	d	
Fungicides	1	acre	\$160.48	\$	160.48	d	
Irrigation		acre	\$ 65.00	_	65.00	1 -	
Hired Labor (Planting)		hrs.	\$ 16.50		264.00	1	
Machinery Variable Costs		acre	\$ 57.76		57.76	e	
Total Preharvest Variable Costs	-		¥ • · · · ·	_	1,829.41	i	
				Ť	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	l f	
HARVESTING AND MARKETING						1	
HARVESTING AND MARKETING Plastic Disposal	10	hours	\$ 16.50	\$	165.00	┨	
Hired Labor	10	Houis	φ 10.50	Ψ	103.00	1 -	
Harvest & Field Grading	\$ 3.96	CM4		\$	1,582.73	f	
Bins (24-inch 45-count)		bins	\$ 13.50	_		1 ′ ⊦	
Marketing Costs (10% of Gross)		gross	φ 13.30	\$	690.00	1 -	
Hauling Variable Costs		cwt	\$ 0.50		200.00	 	
Hauling Variable Costs	400	CWL	φ 0.50	φ	200.00	e	
Total Harvesting and Marketing Cost				\$	3,447.73		
					400.00	∤	
Interest on Variable Costs				\$	106.60	∤ ⊦	
TOTAL VARIABLE COST				\$	5,383.74	1	
RETURN ABOVE VARIABLE COSTS				•	1,516.26		
RETURN ABOVE VARIABLE COSTS				Ф	1,516.26	1	
FIXED COSTS						-	
Machinery and Equipment		1		\$	106.31	ا ما	
Irrigation System Capital Recovery				\$	432.49		
Taxes on Land		 		\$	5.00		
Insurance				\$	53.84	 	
Ilisulatice				Ψ	33.04	1 -	
TOTAL FIXED COSTS				\$	597.64	1 F	
TO THE TIMES GOOTS				Ť	001104	l f	
TOTAL EXPENSES				\$	5,981.38		
RETURN TO OPERATOR LABOR, LAND, CAPITAL, & MGT.				\$	918.62		
				<u> </u>] [
Operator Labor (machinery and irrigation)	15	hrs.	\$ 16.50	\$	247.50	┨	
RETURN TO LAND, CAPITAL, AND MANA	GEMENT			\$	671.12	1	
NETOTAL TO EARD, ON TIME, AND MANAGEMENT				Ψ	31 1.1Z	J L	

- a Yields based on UK variety trials and grower yield estimates. Yields on plastic with trickle irrigation will be 300-400 cwt.
- b Price based on shipping point prices from MO and NC and terminal market price trends in Atlanta, 2022; Ky. auctions 2022.
- c Fuel and power for irrigation system. Assumes established well or water source. Depreciation fixed costs in capital recovery line.
- d Pesticide costs based on recommended applications of various products using 2022 product costs.
- e Machinery costs generator (ISU, 2002) using updated gasoline, purchase price and replacement cost estimates.
- f Based on state budgets with revisions by Kentucky vegetable experts.
- g Fertilizer assumption: 17.75 lbs calcium nitrate per week per 1,000 plants.
- h Hive rental rates are very dependent on local availability.
- * Farm has 5 or more acres total in trickle-irrigated crops