WINTER SQUASH, FRESH MARKET, TRICKLE IRRIGATED Kentucky Estimated Costs and Returns for 2022

CENTER FOR CROP DIVERSIFICATION

Approximately <u>0.12 acres</u> (700 row feet) NOT TO BE CONSIDERED CROPPING RECOMMENDATIONS OR PROFITABILITY PROJECTIONS. FOR COMPARISON AND PLANNING PURPOSES ONLY.

	Quantity	Unit	r	\$/Unit		Total	ī	
GROSS RETURNS	45	hoves	¢	50.00	¢	2,250.00	a h	
Winter Squash (50-lb box)	45	boxes	Φ	50.00	э \$	2,250.00	a,b	
Total Datuma					- ·	2,250.00		
Total Returns		I			Þ	2,250.00		
VARIABLE COSTS								Your Numbers
Production								
Winter Squash Transplants	230	plants	\$	0.30	\$	69.00		
N Fertilizer: Urea	12	lbs	\$	0.40	\$	4.80		
K Fertilizer: Potash (0-0-60)	2	lbs	\$	0.60	\$	1.20		
N Fertilizer: Fertigation (Calcium Nitrate	20	lbs	\$	0.65	\$	13.00	g	
Plastic Mulch	700	feet	\$	0.05	\$		с	
Drip Lines & Irrigation Fittings	700	feet	\$	0.05	\$	37.10	с	
Pollination	0.33	hive	\$	75.00	\$	24.75	h	
Weed Control	1	plot	\$	67.26	\$	67.26	d	
Insect Control	1	plot	\$	18.99	\$	18.99	d	
Disease Control		plot	\$	38.87	\$	38.87	d	
Irrigation	0.12	acre	\$	65.00	\$	7.80	с	
Hired Labor (Planting, Hand Weeding)	4	hrs	\$	16.50	\$	66.00		
Machinery Variable Costs	1	plot	\$	12.32	\$	12.32	е	
Total Preharvest Variable Costs					\$	396.09		
HARVESTING AND MARKETING								
Plastic Disposal	2	hrs	\$	16.50	\$	33.00		
Hired Labor								
Harvest & Field Grading	8	hrs	\$	16.50	\$	132.00	f	
Boxes	45	boxes	\$	1.60	\$	72.00		
Marketing Costs (10% of Gross)	10.0%	gross			\$	225.00		
Hauling Variable Costs	200	miles	\$	0.60	\$	120.00	е	
Total Harvesting and Marketing Cost					\$	582.00		
Interest on Variable Costs					\$	20.61		
TOTAL VARIABLE COST					\$	998.70		
RETURN ABOVE VARIABLE COSTS					\$	1,251.30		
		-						
FIXED COSTS							l	
Machinery and Equipment					\$	21.41		
Irrigation System Capital Recovery					\$	107.60	с	
Taxes on Land					\$	1.00		
Insurance					\$	9.99		
TOTAL FIXED COSTS					\$	140.00		
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TOTAL EXPENSES					\$	1,138.70	ļ	
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RETURN TO OPERATOR LABOR, LAND	, CAPITAL	., & MG	Τ.		\$	1,111.30		
Operator and Unpaid Family Labor	10	hrs.	¢	16.50	\$	165.00		
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RETURN TO LAND, CAPITAL, AND MAN	AGEMEN	Г			\$	946.30	Ì	
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a Yields based on prior UK budget yield assumption.

b Price based on Kentucky farmers market and auction prices, 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 cost calculator updated for vegetable production in 2022.

f Based on state budgets with revisions by Kentucky vegetable experts.

g Fertilizer assumption: 8.5 lbs calcium nitrate per week per 1,000 plants.

h Hive rental rates are very dependent on local availability.