WINTER SQUASH, FRESH MARKET, TRICKLE IRRIGATED

Kentucky Estimated Costs and Returns for 2017

Approximately 0.12 acres (700 row feet)

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

CENTER FOR CROP DIVERSIFICATION

	Quantity	Unit	$/Unit	Total		Your Numbers
GROSS RETURNS						
Winter Squash (50-lb box)	45	boxes	$40.00	$1,800.00	a,b	
				$ -		
Total Returns				**$1,800.00**		
VARIABLE COSTS						
Production						
Winter Squash Transplants	230	plants	$ 0.25	$ 57.50		
N Fertilizer: Urea	12	lbs	$ 0.40	$ 4.80		
K Fertilizer: Potash (0-0-60)	2	lbs	$ 0.30	$ 0.60		
N Fertilizer: Fertigation (Calcium Nitrate)	20	lbs	$ 0.45	$ 9.00	g	
Plastic Mulch	700	feet	$ 0.03	$ 21.00	c	
Drip Lines & Irrigation Fittings	700	feet	$ 0.05	$ 37.10	c	
Pollination	0.33	hive	$ 75.00	$ 24.75		
Weed Control	1	plot	$ 51.52	$ 51.52	d	
Insect Control	1	plot	$ 18.58	$ 18.58	d	
Disease Control	1	plot	$ 46.69	$ 46.69	d	
Irrigation	0.12	acre	$ 50.00	$ 6.00	c	
Hired Labor (Planting, Hand Weeding)	4	hrs.	$ 12.50	$ 50.00		
Machinery Variable Costs	1	plot	$ 8.72	$ 8.72	e	
Total Preharvest Variable Costs				**$ 336.26**		
HARVESTING AND MARKETING						
Plastic Disposal	2	hours	$ 12.50	$ 25.00		
Hired Labor						
Harvest & Field Grading	8	hrs	$ 12.50	$ 100.00	f	
Boxes	45	boxes	$ 1.40	$ 63.00		
Marketing Costs (10% of Gross)	10.0%	gross		$ 180.00		
Hauling Variable Costs	200	miles	$ 0.55	$ 110.00	e	
Total Harvesting and Marketing Cost				**$ 478.00**		
Interest on Variable Costs				$ 17.26		
TOTAL VARIABLE COST				**$ 831.52**		
RETURN ABOVE VARIABLE COSTS				**$ 968.48**		
FIXED COSTS						
Machinery and Equipment				$ 13.80	e	
Irrigation System Capital Recovery				$ 107.60	c	
Taxes on Land				$ 1.00		
Insurance				$ 8.32		
TOTAL FIXED COSTS				**$ 130.72**		
TOTAL EXPENSES				**$ 962.23**		
RETURN TO OPERATOR LABOR, LAND, CAPITAL, & MGT.				$ 837.77		
Operator and Unpaid Family Labor	10	hrs.	$ 15.00	$ 150.00		
RETURN TO LAND, CAPITAL, AND MANAGEMENT				**$ 687.77**		

a Yields based on prior UK budget yield assumption.

b Price based on Kentucky farmers market and auction prices, 2016.

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 2017 product costs.

e Machinery cost calculator updated for vegetable production in 2017.

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.