WINTER SQUASH, FRESH MARKET, TRICKLE IRRIGATED Kentucky Estimated <u>per Acre</u> Costs and Returns for 2022 Large Scale (5 or more acres trickle irrigated)* NOT TO BE CONSIDERED CROPPING RECOMMENDATIONS OR PROFITABILITY PROJECTIONS. FOR COMPARISON AND PLANNING PURPOSES ONLY.



GROSS RETURNS	Quantity	Unit	\$/Ur	III.		Total	1				
Winter Squash (50-lb box)	375	boxes	\$ 16.0	0 \$	66	000 00	аb	Harvest	Handling	6.25	boxes/hou
	0.0	20/100	\$ 1010	\$		-	a, 2	Hauling		0.20	
Total Returns						6,000.00					
Tournounio				ų		,000100	i ı				
VARIABLE COSTS									Your Nu	mhers	
Production									Tour Hu	moore	
Winter Squash Transplants	1815	plants	\$ 0.2	5 \$	5	453.75					
N Fertilizer: Urea	100			0 \$		40.00	1				
K Fertilizer: Potash (0-0-60)		lbs	-	0 \$		48.00	1				
N Fertilizer: Fertigation (Calcium Nitrate)	154			5 \$	_	100.10	a				
Plastic Mulch	1		\$245.0			245.00					
Drip Lines & Irrigation Fittings		acre	\$230.0			230.00					
Pollination	1		\$ 75.0		_	75.00	4 4				
Herbicides (Row Middles)	1		\$ 10.4		6	10.47					
Insecticides		acre	\$ 30.0		_	30.09					
Fungicides	1		\$186.3			186.38					
Irrigation	1		\$ 65.0		_	65.00					
Hired Labor (Planting)	16	hrs.	\$ 16.5			264.00					
Machinery Variable Costs	1	acre	\$ 61.5			61.58	е				
Total Preharvest Variable Costs				\$	51.	,809.38	1				
HARVESTING AND MARKETING							1				
Plastic Disposal	10	hours	\$ 16.5	0 \$	6	165.00					
Hired Labor			\$ 1010		r						
Harvest & Field Grading	60	hrs	\$ 16.5	0 \$	5	990.00	f				
Boxes		boxes	-	0 \$	_	600.00	1				
Marketing Costs (10% of Gross)	10.0%		**	\$		600.00	1				
Hauling Variable Costs		boxes	\$ 0.5			187.50	е				
3 3 3 3 3 3 3 3 3 3											
Total Harvesting and Marketing Cost				\$	5 2.	,542.50					
							1				
Interest on Variable Costs				\$	5	92.42	1				
							1				
TOTAL VARIABLE COST				\$	\$ 4,444.29		1				
							1				
RETURN ABOVE VARIABLE COSTS				\$	5 1,	,555.71					
FIXED COSTS											
Machinery and Equipment		1		\$	5	107.06	e				
Irrigation System Capital Recovery				\$		432.49					
Taxes on Land				\$	5	5.00	1				
Insurance				\$	5	44.44	1				
TOTAL FIXED COSTS				\$	5	588.99					
							[
TOTAL EXPENSES				\$	5 5,	,033.29] [
] [
RETURN TO OPERATOR LABOR, LAND,	CAPITAL	, & MG1	r	\$	5	966.71] [
] [
Operator Labor (machinery and irrigation)	15	hrs.	\$ 16.5	0\$	5	247.50					
RETURN TO LAND, CAPITAL, AND MANA	GEMENT			\$	5	719.21	1				

a Yields based on prior UK budget yield assumption.

c Fuel and power for irrigation system. Assumes established well or water source. Depreciation fixed costs in capital recovery line.

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.

* Farm has 5 or more acres total in trickle-irrigated crops

b Price based on terminal market and shipping point prices from IL, MO and NC, 2022; Ky. auction price trends, 2022.

d Pesticide costs based on recommended applications of various products using 2022 product costs.

e Machinery costs generator (ISU, 2002) using updated fuel, purchase price and replacement cost estimates.