## YELLOW CROOKNECK SQUASH, FRESH MARKET, TRICKLE IRRIGATED Kentucky Estimated per Acre 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. - 4 - 1

	Quantity	Unit	\$/Unit	Total		
GROSS RETURNS		cwt				
Summer Squash	1000	boxes	\$ 9.00	\$9,000.00	a,b	Boxes picked per hour 12.
				\$ -		Boxes packed per hour 10
Total Returns				\$9,000.00		
VARIABLE COSTS	1	1	1	I		Your Numbers
Production						Tour Numbers
Squash Seed (F1)	2	lbs	\$200.00	\$ 400.00		
N Fertilizer: Urea	100		\$ 0.40	-		
K Fertilizer: Potash (0-0-60)		lbs	\$ 0.40			
N Fertilizer: Fertigation (Calcium Nitrate)			\$ 0.65		~	
Plastic Mulch		acre	\$ 392.00			
Drip Lines & Irrigation Fittings		acre	\$392.00			
Pollination		hive	\$ 75.00			
Herbicides (Row Middles)		acre	\$ 10.47	\$ 10.47	d	
Insecticides		acre	\$ 10.47			
Fungicides		acre	\$ 134.38			
Irrigation		acre	\$ 65.00			
Hired Labor (Planting)		hrs.	\$ 16.50		C	
Machinery Variable Costs	-	acre	\$ 43.58			
Total Preharvest Variable Costs	1	acre	\$ 43.36	\$ 43.56 \$1,896.27	е	
Total Prenarvest Variable Costs				\$1,090.27		
HARVESTING AND MARKETING	10		<b>A</b> 40 50	<b>*</b> • • • <b>7</b> • • •		
Plastic Disposal	18	hours	\$ 16.50	\$ 297.00		
Hired Labor	4 000	h	\$ 1.32	¢ 4 000 00		
Harvest	1,000		1 .			
Packing	1,000		\$ 1.65 \$ 1.60		T	
Boxes		boxes	\$ 1.60			
Marketing Costs (10% of Gross)	10.0%		\$ 0.10	\$ 900.00		
Hauling Variable Costs	1000	boxes	\$ 0.10	\$ 100.00	е	
Total Harvesting and Marketing Cost				\$5,867.00		
Total harvesting and marketing cost				\$3,007.00		
Interest on Variable Costs				\$ 144.89		
TOTAL VARIABLE COST				\$7,908.16		
RETURN ABOVE VARIABLE COSTS				\$1,091.84		
FIXED COSTS						
Machinery and Equipment				\$ 93.17	_	
Irrigation System Capital Recovery				\$ 440.00		
Taxes on Land				\$ 5.00	Č	
				\$ 79.08		
insulance				ψ 13.00		
TOTAL FIXED COSTS				\$ 617.25		
TOTAL EXPENSES				\$8,525.41		
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RETURN TO OPERATOR LABOR, LAND	, CAPITAI	∟,&MG 	T.	\$ 474.59		
Operator Labor (machinery and irrigation)	15	hrs.	\$ 16.50	\$ 247.50		
RETURN TO LAND, CAPITAL, AND MAN	AGEMEN	Т		\$ 227.09		

a Yields based on UK variety trials and grower yield estimates.

b Price based on shipping point prices from MO and NC and terminal market price trends in Atlanta, 2022; Ky. auction trends, 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. Fungicide program can vary

greatly according to downy mildew pressure.

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

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.

Budget based on 8712 row feet (5 ft rows, 1.5 ft between plants)

h Hive rental rates are very dependent on local availability.

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