Eggplant, 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	cwt		\$/Unit		Total	1	
Eggplant, 1 1/9 bushel	700		\$	15.00	\$	10.500.00	a.t	Boxes picked per hour 10
		20/100	Ŷ		\$	-		Boxes packed per hour 6.25
Total Returns					· ·	10,500.00		
					·			
VARIABLE COSTS								Your Numbers
Production								
Eggplant Transplants	4356	plants	\$	0.25	\$	1,089.00		
N Fertilizer: Urea	130	lbs	\$	0.40	\$	52.00		
K Fertilizer: Potash (0-0-60)	75	lbs	\$	0.60	\$	45.00		
N Fertilizer: Fertigation (Calcium Nitrate)	387	lbs	\$	0.65	\$	251.55	g	
Plastic Mulch	1	acre	\$	392.00	\$	392.00	_	
Drip Lines & Irrigation Fittings	1	acre	\$	326.00	\$	326.00		
Pollination	1	hive	\$	75.00	\$	75.00	h	
Herbicides	1	acre		59.51	\$	59.51	d	
Insecticides	1		-	138.87	\$	138.87	d	
Fungicides	1	acre	\$	164.48	\$	164.48	d	
Irrigation		acre	\$	65.00		65.00	с	
Hired Labor (Planting)	10	hrs.	\$	16.50	\$	165.00		
Machinery Variable Costs	1	acre	\$	58.40	\$	58.40	е	
Total Preharvest Variable Costs					\$	2,881.81		
HARVESTING AND MARKETING								
Plastic Disposal	18	hours	\$	16.50	\$	297.00		
Hired Labor								
Harvest	700	box	\$	1.65	\$	1,155.00	f	
Packing	700	box	\$			1,848.00		
Boxes	700	boxes	\$	1.40	\$	980.00		
Marketing Costs (10% of Gross)	10%	gross			\$	1,050.00		
Hauling Variable Costs	700	boxes	\$	0.10	\$	70.00	е	
Total Harvesting and Marketing Cost					\$	5,400.00		
Internet en Mariable Casta					\$	107 45		
Interest on Variable Costs					Þ	167.45		
TOTAL VARIABLE COST					¢	8,449.27		
TOTAL VARIABLE COST			-		φ	0,449.27		
RETURN ABOVE VARIABLE COSTS			-		\$	2,050.73		
		1			Ψ	2,000110		
FIXED COSTS								
Machinery and Equipment					\$	103.38	_	
Irrigation System Capital Recovery					\$	440.00	с	
Taxes on Land					\$	5.00	Ŭ	
Insurance					\$	84.49		
					Ť	01110		
TOTAL FIXED COSTS					\$	632.87		
					Ē		1	
TOTAL EXPENSES					\$	9,082.14	1	
							1	
RETURN TO OPERATOR LABOR, LAND,	CAPITAL	, & MG	Т.		\$	1,417.86]	
Operator Labor (machinery and irrigation)	15	hrs.	\$	16.50	\$	247.50		
RETURN TO LAND, CAPITAL, AND MAN	AGEMENT				\$	1,170.36	l	

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

b Price based on terminal market and auction price trends in 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 using updated fuel, purchase price and replacement cost estimates.

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

g Fertilizer assumption: 8.875 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

Budget based on 8712 row feet (5 ft between rows, 2 ft between plants)