EGGPLANT, FRESH MARKET, TRICKLE IRRIGATED

Kentucky Estimated Costs and Returns for 2017
Trickle-irrigated, Hand-harvested, 100-foot row
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						
Eggplant	200	eggplant	$ 1.25	$ 250.00	a,b	
				$ -		
Total Returns				**$ 250.00**		
VARIABLE COSTS						
Production						
Eggplant Transplants	50	plants	$ 0.30	$ 15.00		
N Fertilizer: Urea	1.5	lbs	$ 0.40	$ 0.60		
K Fertilizer: Potash (0-0-60)	1	lbs	$ 0.30	$ 0.30		
N Fertilizer: Fertigation (Calcium Nitrate)	4.4	lbs	$ 0.45	$ 1.98	g	
Drip Lines & Irrigation Fittings	100	feet	$ 0.08	$ 8.00	c	
Weed Control	1	row	$ 26.13	$ 26.13	d	
Insecticides	1	row	$ 9.64	$ 9.64	d	
Fungicides	1	row	$ 11.15	$ 11.15	d	
Irrigation	10	hrs.	$ 0.40	$ 4.00	c	
Hired Labor (Planting)	1	hrs.	$ 12.50	$ 12.50	c	
Machinery Variable Costs	1	row	$ 4.36	$ 4.36	e	
Total Preharvest Variable Costs				**$ 93.66**		
HARVESTING AND MARKETING						
Plastic Disposal	0.5	hours	$ 12.50	$ 6.25		
Hired Labor						
Harvest	8	box	$ 1.25	$ 10.00	f	
Packing	8	box	$ 2.00	$ 16.00	f	
Containers	8	boxes	$ 1.40	$ 11.20		
Marketing Costs (10% of Gross)	10%	gross		$ 25.00		
Total Harvesting and Marketing Cost				**$ 68.45**		
Interest on Variable Costs				$ 3.84		
TOTAL VARIABLE COST				**$ 165.95**		
RETURN ABOVE VARIABLE COSTS				**$ 84.05**		
FIXED COSTS						
Machinery and Equipment				$ 6.90	e	
Irrigation System Capital Recovery				$ 6.57	c	
Taxes on Land				$ 1.00		
Insurance				$ 1.66		
TOTAL FIXED COSTS				**$ 16.13**		
TOTAL EXPENSES				**$ 182.07**		
RETURN TO OPERATOR LABOR, LAND, CAPITAL, & MGT.				$ 67.93		
Operator Labor (machinery and irrigation)	2	hrs.	$ 15.00	$ 30.00		
RETURN TO LAND, CAPITAL, AND MANAGEMENT				**$ 37.93**		

a Yields based on UK variety trials and grower yield estimates.
b Price based on Kentucky farmers market 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. Fungicide program can vary.
e Machinery costs generator updated with 2016-17 fuel and equipment costs.
f Based on state budgets with revisions by Kentucky vegetable experts.
g Fertilizer assumption: 8.875 lb calcium nitrate per week per 1,000 plants.