BROCCOLI, FALL 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						
Broccoli	60	pounds	$ 2.50	$ 150.00	a,b	
				$ -		
Total Returns				**$ 150.00**		
VARIABLE COSTS						
Production						
Broccoli Transplants	**100**	plants	$ 0.15	$ 15.00		
N Fertilizer: Urea	1	lbs	$ 0.40	$ 0.40		
Starter Fertilizer	0.5	lbs	$ 0.60	$ 0.30		
N Fertilizer: Fertigation (Calcium Nitrate)	5	lbs	$ 0.45	$ 2.25		
Plastic Mulch	100	feet	$ 0.03	$ 3.00	c	
Drip Lines & Irrigation Fittings	100	feet	$ 0.05	$ 5.00	c	
Weed Control	1	row	$ 12.65	$ 12.65	d	
Insect Control	1	row	$ 8.10	$ 8.10	d	
Disease Control	1	row	$ 7.65	$ 7.65	d	
Irrigation	2	hrs.	$ 0.40	$ 0.80	c	
Hired Labor (Planting)	1	hrs.	$ 12.50	$ 12.50		
Machinery Variable Costs	1	row	$ 4.94	$ 4.94	e	
Total Preharvest Variable Costs				**$ 72.59**		
HARVESTING AND MARKETING						
Plastic Disposal	0.5	hours	$ 12.50	$ 6.25		
Harvest and Pack	1	hours	$ 12.50	$ 15.00	f	
Ice and Cooling			$ -	$ -		
Boxes	3	boxes	$ 1.40	$ 4.20		
Marketing Costs (10% of Gross)	10.0%	gross		$ 15.00		
Other transportation/marketing costs	1	row	$ -	$ -		
Total Harvesting and Marketing Cost				**$ 40.45**		
Interest on Variable Costs				$ 2.78		
TOTAL VARIABLE COST				**$ 115.82**		
RETURN ABOVE VARIABLE COSTS				**$ 34.18**		
FIXED COSTS						
Machinery and Equipment				$ 7.84	e	
Irrigation System Capital Recovery				$ 7.03	c	
Taxes on Land				$ 1.00		
Insurance				$ 1.16		
TOTAL FIXED COSTS				**$ 17.03**		
TOTAL EXPENSES				**$ 132.86**		
RETURN TO OPERATOR LABOR, LAND, CAPITAL, & MGT.				$ 17.14		
Operator and Unpaid Family Labor	2	hrs.	$ 15.00	$ 30.00		
RETURN TO LAND, CAPITAL, AND MANAGEMENT				**$ (12.86)**		

a Yields based on prior UK budget yield assumption.
b Price based on 2016 Ky. farmers market prices (spring only available) and Ky produce auction price ranges.
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 modified for KY vegetable production in 2017.
f Updates past harvest and packing cost assumptions and compares to recently published university budget assumptions.