PUMPKIN, FRESH MARKET, TRICKLE IRRIGATED
Kentucky Estimated per Acre Costs and Returns for 2017
Large Scale (5 or more acres trickle irrigated)*
NOT TO BE CONSIDERED CROPPING RECOMMENDATIONS OR PROFITABILITY PROJECTIONS. FOR COMPARISON AND PLANNING PURPOSES ONLY.

CENTER FOR CROP DIVERSIFICATION

	Quantity	Unit	$/Unit	Total		
GROSS RETURNS						
Pumpkins (18-22 lb size)	30,000	pounds	$ 0.12	$ 3,600.00	a,b	
				$ -		**Harvest, Handling, Hauling Labor**
Total Returns				**$ 3,600.00**		**350 lbs/hour**
VARIABLE COSTS						**Your Numbers**
Production						
Pumpkin Seed	2.0	thousand	$ 50.00	$ 100.00		
N Fertilizer: Urea	100	lbs	$ 0.40	$ 40.00		
K Fertilizer: Potash (0-0-60)	80	lbs	$ 0.30	$ 24.00		
N Fertilizer: Fertigation (Calcium Nitrate)	154	lbs	$ 0.45	$ 69.30	g	
Plastic Mulch	1	acre	$ 143.00	$ 143.00	c	
Drip Lines & Irrigation Fittings	1	acre	$ 230.00	$ 230.00	c	
Pollination	1	hive	$ 75.00	$ 75.00		
Herbicides (Row Middles)	1	acre	$ 12.69	$ 12.69		
Insecticides	1	acre	$ 29.85	$ 29.85	d	
Fungicides	1	acre	$ 264.06	$ 264.06	d	
Irrigation	1	acre	$ 50.00	$ 50.00	c	
Hired Labor (Planting, Weeding)	10	hrs.	$ 12.50	$ 125.00		
Machinery Variable Costs	1	acre	$ 43.61	$ 43.61	e	
Total Preharvest Variable Costs				**$ 1,206.51**		
HARVESTING AND MARKETING						
Plastic Disposal	10	hours	$ 12.50	$ 125.00		
Hired Labor						
Harvest, Handling, Hauling	86	hrs	$ 12.50	$ 1,071.43	f	
Bins	42	bins	$ 11.75	$ 493.50		
Marketing Costs (10% of Gross)	10.0%	gross		$ 360.00		
Total Harvesting and Marketing Cost				**$ 2,049.93**		
Interest on Variable Costs				$ 66.94		
TOTAL VARIABLE COST				**$ 3,323.38**		
RETURN ABOVE VARIABLE COSTS				**$ 276.62**		
FIXED COSTS						
Machinery and Equipment				$ 68.99	e	
Irrigation System Capital Recovery				$ 322.80	c	
Taxes on Land				$ 5.00		
Insurance				$ 33.23		
TOTAL FIXED COSTS				**$ 430.02**		
TOTAL EXPENSES				**$ 3,753.41**		
RETURN TO OPERATOR LABOR, LAND, CAPITAL, & MGT.				$ (153.41)		
Operator Labor (machinery and irrigation)	10	hrs.	$ 15.00	$ 150.00		
RETURN TO LAND, CAPITAL, AND MANAGEMENT				**$ (303.41)**		

a Yields based on prior UK budget yield assumption.
b Price based on terminal market and shipping point prices from IL, MO and NC, 2016; Ky. auction price trends, 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.
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.
* Farm has 5 or more acres total in trickle-irrigated crops