PUMPKIN, 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. Quantity Unit \$/Unit Total **GROSS RETURNS** Pumpkins (18-22 lb size) 30,000 pounds \$ 0.18 \$ 5,400.00 a,b Harvest, Handling, 350 lbs/hour \$ **Total Returns** \$ 5,400.00 **Hauling Labor** VARIABLE COSTS Your Numbers Production Pumpkin Seed 2.0 thousand \$ 75.00 \$ 150.00 N Fertilizer: Urea 100 lbs \$ 0.40 \$ 40.00 K Fertilizer: Potash (0-0-60) 80 lbs 0.60 \$ 48.00 \$ 100.10 g N Fertilizer: Fertigation (Calcium Nitrate) 154 lbs 0.65 \$ Plastic Mulch 1 acre \$245.00 \$ 245.00 c **Drip Lines & Irrigation Fittings** 1 acre \$ 230.00 \$ 230.00 c Pollination 1 hive \$ 75.00 \$ 75.00 h Herbicides (Row Middles) 1 acre \$ 10.47 \$ 10.47 d Insecticides 1 acre \$ 30.09 \$ 30.09 d 1 acre Fungicides \$ 186.38 \$ 186.38 d Irrigation 1 \$ 65.00 \$ 65.00 c acre 10 hrs. Hired Labor (Planting, Weeding) \$ 16.50 \$ 165.00 \$ 61.58 \$ Machinery Variable Costs 1 acre 61.58 e Total Preharvest Variable Costs \$ 1,406.63 HARVESTING AND MARKETING 10 hours \$ 16.50 \$ 165.00 Plastic Disposal Hired Labor Harvest, Handling, Hauling 86 hrs \$ 16.50 | \$ 1,414.29 | f Bins 42 14.00 \$ 588.00 bins 10.0% Marketing Costs (10% of Gross) \$ 540.00 gross Total Harvesting and Marketing Cost \$ 2,707.29 Interest on Variable Costs \$ 82.81 TOTAL VARIABLE COST \$ 4,196.72 RETURN ABOVE VARIABLE COSTS \$ 1,203.28 FIXED COSTS Machinery and Equipment 107.06 \$ Irrigation System Capital Recovery \$ 432.49 c Taxes on Land \$ 5.00 Insurance \$ 41.97 TOTAL FIXED COSTS \$ 586.52 TOTAL EXPENSES \$ 4,783.24 RETURN TO OPERATOR LABOR, LAND, CAPITAL, & MGT. 616.76

a Yields based on prior UK budget yield assumption.

RETURN TO LAND, CAPITAL, AND MANAGEMENT

Operator Labor (machinery and irrigation)

b Price based on terminal market and shipping point prices from IL, MO and NC, 2022; Ky. auction price trends, 2022.

10 hrs

c Fuel and power for irrigation system. Assumes established well or water source. Depreciation fixed costs in capital recovery line.

\$ 16.50 \$ 165.00

\$

451.76

- d Pesticide costs based on recommended applications of various products using 2022 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.
- h Hive rental rates are very dependent on local availability.
- * Farm has 5 or more acres total in trickle-irrigated crops