## CUCUMBER, FRESH MARKET, TRICKLE IRRIGATED Kentucky Estimated per Acre 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		cwt						
Cucumbers (1 1/9 bu box)	500	boxes	\$	12.50	\$	6,250.00	a,t	Boxes picked per hour
					\$	-		Boxes packed per hour 6.
Total Returns					\$	6,250.00		
VARIABLE COSTS								Your Numbers
Production								
Cucumber Seed (F1)	2	lbs	\$1	25.00	\$	250.00		
N Fertilizer: Urea	100	lbs	\$	0.40	\$	40.00		
K Fertilizer: Potash (0-0-60)		lbs	\$	0.60	\$	48.00		
N Fertilizer: Fertigation (Calcium Nitrate)	372	lbs	\$	0.65	\$	241.80	g	
Plastic Mulch	1	acre	\$3	92.00	\$	392.00	-	
Drip Lines & Irrigation Fittings	1	acre	\$3	26.00	\$	326.00		
Pollination	1	hive	\$	75.00	\$	75.00	h	
Herbicides (Row Middles)	1	acre	\$	10.47	\$	10.47	d	
Insecticides	1	acre	\$	22.59	\$	22.59	d	
Fungicides	1	acre	\$1	34.38	\$	134.38	d	
Irrigation	1	acre	\$	65.00	\$	65.00	с	
Hired Labor (Planting)	10	hrs.	\$	16.50	\$	165.00		
Machinery Variable Costs	1	acre	\$	61.58	\$	61.58	е	
Total Preharvest Variable Costs					\$	1,831.82		
HARVESTING AND MARKETING								
Plastic Disposal	18	hours	\$	16.50	\$	297.00		
Hired Labor			Ŧ		-			
Harvest	500	box	\$	1.65	\$	825.00	f	
Packing		box	\$	2.51	\$	1,253.80		
Boxes		boxes	\$	1.60		800.00		
Marketing Costs (10% of Gross)		gross			\$	625.00		
Hauling Variable Costs		boxes	\$	0.10	\$	50.00	е	
Total Harvesting and Marketing Cost					\$	3,850.80		
Interest on Variable Costs					\$	112.72		
TOTAL VARIABLE COST					\$	5,795.34		
RETURN ABOVE VARIABLE COSTS					\$	454.66		
FIXED COSTS								
Machinery and Equipment			1		\$	107.06	e	
Irrigation System Capital Recovery					\$	440.00		
Taxes on Land					\$	5.00	ľ	
Insurance					\$	57.95		
modranoo					Ŷ	01.00		
TOTAL FIXED COSTS					\$	610.01		
TOTAL EXPENSES					\$	6,405.35		
RETURN TO OPERATOR LABOR, LAND,	CAPITAL	., & MGT			\$	(155.35)		
				16 50	¢	247.50		
Operator Labor (machinery and irrigation)	15	hrs.	\$	16.50	\$	247.50		
RETURN TO LAND, CAPITAL, AND MANA	GEMEN	Г			\$	(402.85)		

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

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. Fungicide program can vary

greatly according to downy mildew pressure.

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: 2.375 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

Budget based on 8712 row feet (5 ft between rows, 1 ft between plants)

b Price based on shipping point prices and terminal market price trends in Atlanta; updated for 2022.