BELL PEPPERS: 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



CDOSS DETLIDAS	Quantity	Unit	φ/ΟΠΙ	1	TOtal	ī	
GROSS RETURNS Peppers (1 1/9 bu. box)	1500	box	f 10.00	•	10 000 00	١	
Peppers (1 1/9 bu. box)	1500	DOX	\$ 12.00	Ф	18,000.00	a,t	
						ļ	Boxes picked per hour 11.36
		ı		-		ł	Boxes packed per hou 7.14
VARIABLE COSTS						1	
Production						ļ	Your Numbers
Plants	14.5	1000	\$200.00	\$	2,900.00	l	
Transplant Labor	24	hours	\$ 16.50	\$	396.00		
N Fertilizer: Preplant Urea	100	lbs	\$ 0.40	\$	40.00		
Starter Liquid Fertilizer	9.06	lbs	\$ 6.50	\$	58.89		
N Fertilizer: Calcium Nitrate fertigation	580	lbs	\$ 0.60	\$	348.00	h	
Black Plastic/Drip Lines	1	acre	\$653.00	\$	653.00	d	
Herbicides	1	acre	\$ 80.51	\$	80.51	е	
Insecticides	1	acre	\$ 28.38		28.38	е	
Fungicides		acre	\$457.26	\$	457.26	е	
Irrigation		hrs.	\$ 0.50		45.00		
Machinery Variable Costs		acre	\$ 62.35		62.35		
Total Preharvest Variable Costs				\$		Ĭ	
					,	ı	
HADVESTING AND MARKETING						Ì	
HARVESTING AND MARKETING	1500	havaa	ф 1 FO	•	2.250.00	ł	
Boxes		boxes			2,250.00	ļ	
Harvest Lugs/Buckets			\$ 20.00		500.00	ļ	
Plastic Disposal Labor	18	nours	\$ 16.50	\$	297.00	ļ	
Harvest and Postharvest Hired Labor	A 4 45			_	0.450.50	ļ	
Harvest	\$ 1.45			_	2,178.70		
Grade/Pack	\$ 2.31				3,466.39	g	
Marketing Costs (10% of Gross)	10.0%				1,800.00	ļ	
Hauling Variable Costs	1500	boxes	\$ 0.11	\$	165.00	f	
Total Harvesting and Marketing Cost				\$	10,657.08		
						ļ	
Interest on Variable Costs				\$	311.94	ļ	
TOTAL VARIABLE COST				\$	16,038.41	l	
				_		ļ	
RETURN ABOVE VARIABLE COSTS				\$	1,961.59	ļ	
FIVED COSTS							
FIXED COSTS Machinery and Equipment	-	 		\$	261.93	_	
	-	 		\$		∤'	
Harvest Crate Replacement	-	 			160.00	ł	
Depreciation on Irrigation System	1	-		\$	392.86	ł	
Taxes on Land				\$	5.00	ļ	
Insurance	-			\$	90.00	ł	
TOTAL FIVER COOTS	-	 		_	222 52	ļ	
TOTAL FIXED COSTS	-			\$	909.79	1	
TOTAL EXPENSES				\$	16,948.20	l	
]	
RETURN TO OPERATOR LABOR, LAN	D, CAPIT	AL, & N	IGT.	\$	1,051.80	1	
Operator and Unpaid Family Labor	40	hrs.	\$ 16.50	\$	660.00	Ì	
					204.55	Į	
RETURN TO LAND, CAPITAL, AND MA	NAGEME	NI		\$	391.80	1	

- a Reflects average to above-average yields for plasticulture.
- b Price based on USDA AMS Shipping Point and Ky. auction prices, 2022.
- c Assumes charge for power/fuel for irrigation. Municipal water will add much higher cost.
- d Based on 2015 UK estimate for trickle irrigation and 2022 estimate.
- e Pesticide costs based on recommended applications of various products using 2022 product costs.
- f Machinery costs based on typical operations and 2017-22 machinery costs, according to machinery cost generator.
- g Based on past Kentucky budgets with increases for increasing wage rates; compares similarly to pepper labor estimates from university budgets published in South Carolina, Mississippi.
- h Fertilizer assumption: 4 pounds calcium nitrate per week per 1000 plants.
- * Farm has 5 or more acres total in trickle-irrigated crops

Budget based on 10890 row feet (4 ft between rows, 1 ft between plants)