

2019 Peach Budget Spreadsheet

Matt Ernst¹

These budget estimates are based on the best and most accurate input cost information and crop price projections available at the time of release. Further, costs and returns are based on production practices and yield levels thought to be representative of typical growers in Kentucky given normal growing conditions. This publication allows producers to change prices and quantities for easy adaptation of the budgets to their own farming situation. Because price, cost and yield expectations change over time, and because each producer will have unique cost, production and management levels, these budgets can serve only as a template for estimating expenses. This tool is neither a production recommendation nor an estimate of financial returns but is intended to be changed and adapted to match each individual farm or orchard situation.



University of Kentucky
College of Agriculture,
Food and Environment
Cooperative Extension Service

Center for Crop Diversification Budget CCD-BG-13

Hired Labor	\$	12.50	Other			
Operator Labor	\$	15.00	Soil Test	\$	15.00	assay
Interest Rate		6%	Grass Seed	\$	3.00	pound
Opportunity Cost of Land	\$	100.00	Beehive Rental	\$	100.00	hive
Real Estate Tax per Acre	\$	10.00				
Trees per acre		110				
Peach Tree Cost per tree	\$	10.00	Irrigation			
Harvest Variables				Monthly variable cost		Annual Fixed Cost
PRICE Per Bushel	\$	40.00		\$	41.33	\$ 257.14
Container Cost	\$	0.05				Assumes \$1800 fixed cost depreciated over 7 years
Refrigeration (annual)	\$	550.00				
Refrigeration (daily)	\$	1.22				
Harvest Days		30.00				
Marketing Charge (% of gross sales)		10%				
Quantity Harvested (Bushels)						
Year 4 (First Fruiting)		100				
Year 5 (Second Fruiting)		200				
Year 6 (Full Production)		300				

The author gratefully acknowledges contributions and reviews from UK Extension Fruit Specialist John Strang, UK Extension Plant Pathologist Nicole Gauthier, and UK Extension Entomologist Ric Bessin.



For more info visit:

www.uky.edu/ccd

¹Matt Ernst is an independent contractor with the Center for Crop Diversification.

PEACHES, Kentucky, 2019
Soil Buildup Year Summary

	Quantity	Unit	\$/Unit	Total	Your Estimate
GROSS RETURNS					
VARIABLE COSTS					
PRODUCTION					
Soil Test	2 assays		\$ 15.00	\$ 30.00	<input type="text"/>
Herbicide	1 acre		\$ 18.00	\$ 18.00	<input type="text"/>
Grass Seed	15 lbs		\$ 3.00	\$ 45.00	<input type="text"/>
Fertilizer & Lime	1 acre		\$ 143.80	\$ 143.80	<input type="text"/>
Variable Machinery Costs	1 acre		\$ 37.75	\$ 37.75	<input type="text"/>
Interest				\$ 8.24	<input type="text"/>
TOTAL PRODUCTION COST				\$ 282.79	<input type="text"/>
RETURN ABOVE VARIABLE COSTS				\$ 282.79	<input type="text"/>
FIXED COSTS					
Fixed Machinery & Equipment Costs	1 acre		\$ 34.74	\$ 34.74	<input type="text"/>
TOTAL FIXED COST				\$ 34.74	<input type="text"/>
TOTAL COSTS				\$ 317.53	<input type="text"/>
RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.				\$ (317.53)	<input type="text"/>
Operator and Unpaid Family Labor	2.00 hrs		\$ 15.00	\$ 30.00	<input type="text"/>
TOTAL OPERATOR AND UNPAID FAMILY LABOR				\$ 30.00	<input type="text"/>
RETURN TO LAND, CAPITAL, AND MANAGEMENT				\$ (347.53)	<input type="text"/>

Totals will vary slightly from budget details due to rounding of labor hours.

PEACHES, Kentucky 2019
Planting Year Summary

	Quantity	Unit	\$/Unit	Total	Your Estimate
GROSS RETURNS					
VARIABLE COSTS					
PRODUCTION					
Herbicide	1 acre		\$ 93.80	\$ 93.80	
Trees	110 trees		\$ 10.00	\$ 1,100.00	
Tree Guards	110 trees		\$ 1.55	\$ 170.50	
Fertilizer	1 acre		\$ 47.30	\$ 47.30	
Fungicide	1 lbs		\$ 70.50	\$ 70.50	
Insecticide	1 acre		\$ 54.80	\$ 54.80	
Hired Labor					
Planting & Weed Control	20.00	hours	\$ 12.50		
<i>TOTAL HIRED LABOR</i>	<i>20</i>	<i>hours</i>	<i>\$ 12.50</i>	<i>\$ 250.00</i>	
Irrigation (Drip Tape, etc.)	1 acre		\$ 247.98	\$ 247.98	
Variable Machinery Costs	1 acre		\$ 89.83	\$ 89.83	
Interest	1 acre		\$ 63.74	\$ 63.74	
TOTAL PRODUCTION COST				\$ 2,188.45	
RETURN ABOVE VARIABLE COSTS				\$ (2,188.45)	
FIXED COSTS					
Fixed Machinery Costs	1 acre		\$ 30.11	\$ 30.11	
Fixed Costs on Irrigation System	1 year		\$ 257.14	\$ 257.14	
TOTAL FIXED COST				\$ 287.25	
TOTAL COSTS				\$ 2,475.70	
RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.				\$ (2,475.70)	
Operator and Unpaid Family Labor	11.45	hrs	\$ 15.00	\$ 171.75	
TOTAL OPERATOR AND UNPAID FAMILY LABOR				\$ 171.75	
RETURN TO LAND, CAPITAL, AND MANAGEMENT				\$ (2,647.45)	

Totals will vary slightly from budget details due to rounding of labor hours.

PEACHES, Kentucky 2019
 Non-Bearing Years 2-3 Summary

	Quantity	Unit	\$/Unit	Total	Your Estimate
GROSS RETURNS					
VARIABLE COSTS					
PRODUCTION					
Fertilizer	1 acre		\$ 87.30	\$ 87.30	
Herbicide	1 acre		\$ 111.90	\$ 111.90	
Insecticide	1 acre		\$ 54.80	\$ 54.80	
Fungicide	1 acre		\$ 70.50	\$ 70.50	
				\$ -	
Hired Labor					
Pruning, Weeding	18.00	hours	\$ 12.50		
<i>TOTAL HIRED LABOR</i>	<i>18 hours</i>		\$ 12.50	\$ 225.00	
Irrigation	0 months		\$ 41.33	\$ -	
Variable Machinery Costs	1 acre		\$ 17.34	\$ 17.34	
Interest	1 acre		\$ 17.01	\$ 17.01	
TOTAL PRODUCTION COST				\$ 583.85	
RETURN ABOVE VARIABLE COSTS				\$ (583.85)	
FIXED COSTS					
Fixed Machinery Costs	1 acre		\$ 23.74	\$ 23.74	
Fixed Costs on Irrigation System	1 year		\$ 257.14	\$ 257.14	
TOTAL FIXED COST				\$ 280.88	
TOTAL COSTS				\$ 864.73	
RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.				\$ (864.73)	
Operator and Unpaid Family Labor	12.00	hrs	\$ 15.00	\$ 180.00	
TOTAL OPERATOR AND UNPAID FAMILY LABOR				\$ 180.00	
RETURN TO LAND, CAPITAL, AND MANAGEMENT				\$ (1,044.73)	

Totals will vary slightly from budget details due to rounding of labor hours.

PEACHES, Kentucky 2019
 First Bearing Year Summary (Year 4)

	Quantity	Unit	\$/Unit	Total	Your Estimate
GROSS RETURNS	100 bushels		\$ 40.00	\$ 4,000.00	<input type="text"/>
VARIABLE COSTS					
PRODUCTION					
Fertilizer	1 acre		\$ 132.00	\$ 132.00	<input type="text"/>
Herbicide	1 acre		\$ 124.00	\$ 124.00	<input type="text"/>
Insecticide	1 acre		\$ 184.11	\$ 184.11	<input type="text"/>
Fungicide	1 acre		\$ 349.22	\$ 349.22	<input type="text"/>
Irrigation	5 months		\$ 41.33	\$ 206.65	<input type="text"/>
Pollination	1 hive		\$ 100.00	\$ 100.00	<input type="text"/>
Variable Machinery Costs	1 acre		\$ 33.59	\$ 33.59	<input type="text"/>
Hired Labor					<input type="text"/>
Pest Control, Thinning	5 hours		\$ 12.50	\$ 62.50	<input type="text"/>
Interest	1 acre		\$ 35.76	\$ 35.76	<input type="text"/>
TOTAL PRODUCTION COST				\$ 1,227.83	<input type="text"/>
RETURN ABOVE PREHARVEST VARIABLE COSTS				\$ 2,772.17	<input type="text"/>
FIXED COSTS					
Fixed Machinery Costs	1 acre		\$ 42.85	\$ 42.85	<input type="text"/>
Fixed Irrigation Costs	1 acre		\$ 257.14	\$ 257.14	<input type="text"/>
Fixed Costs on Refrigeration System	1 year		\$ 550.00	\$ 550.00	<input type="text"/>
TOTAL FIXED COST				\$ 849.99	<input type="text"/>
TOTAL PREHARVEST COSTS				\$ 2,077.82	<input type="text"/>
HARVESTING AND MARKETING					
Hired Labor	20 hours		\$ 12.50	\$ 250.00	<input type="text"/>
Containers	800 bags		\$ 0.05	\$ 40.00	<input type="text"/>
Marketing Costs	10% gross		\$ 4,000.00	\$ 400.00	<input type="text"/>
Refrigeration Costs	30 days		\$ 1.22	\$ 36.60	<input type="text"/>
Total Harvest and Marketing Variable Costs				\$ 726.60	<input type="text"/>
					<input type="text"/>
Total Harvest Costs				\$ 726.60	<input type="text"/>
TOTAL COSTS				\$ 2,804.42	<input type="text"/>
Operator and Unpaid Family Labor includes 48 hrs pruning & thinning	64.75 hrs		\$ 15.00	\$ 971.25	<input type="text"/>
RETURN TO LAND, CAPITAL, AND MANAGEMENT				\$ 1,195.58	<input type="text"/>

Totals will vary slightly from budget details due to rounding of labor hours.

PEACHES, Kentucky 2019
 Second Bearing Year Summary (Year 5)

	Quantity	Unit	\$/Unit	Total	Your Estimate
GROSS RETURNS	200 bushels		\$ 40.00	\$ 8,000.00	<input type="text"/>
VARIABLE COSTS					
PRODUCTION					
Fertilizer	1 acre		\$ 176.00	\$ 176.00	<input type="text"/>
Fungicide	1 acre		\$ 349.22	\$ 349.22	<input type="text"/>
Insecticide	1 acre		\$ 184.11	\$ 184.11	<input type="text"/>
Herbicide	1 acre		\$ 124.00	\$ 124.00	<input type="text"/>
Irrigation	5 months		\$ 41.33	\$ 206.65	<input type="text"/>
Pollination	1 hive		\$ 100.00	\$ 100.00	<input type="text"/>
Variable Machinery Costs	1 acre		\$ 33.59	\$ 33.59	<input type="text"/>
Hired Labor					<input type="text"/>
Pest Control, Thinning	5 hours		\$ 12.50	\$ 62.50	<input type="text"/>
Interest	1 acre		\$ 37.08	\$ 37.08	<input type="text"/>
TOTAL PRODUCTION COST				\$ 1,273.15	<input type="text"/>
RETURN ABOVE PREHARVEST VARIABLE COSTS				\$ 6,726.85	<input type="text"/>
FIXED COSTS					
Fixed Machinery Costs	1 acre		\$ 42.85	\$ 42.85	<input type="text"/>
Fixed Irrigation Costs	1 acre		\$ 257.14	\$ 257.14	<input type="text"/>
Fixed Costs on Refrigeration System	1 year		\$ 550.00	\$ 550.00	<input type="text"/>
TOTAL FIXED COSTS				\$ 849.99	<input type="text"/>
TOTAL PREHARVEST COSTS				\$ 2,123.14	<input type="text"/>
HARVESTING AND MARKETING					
Hired Labor	40 hours		\$ 12.50	\$ 500.00	<input type="text"/>
Containers	1600 bags		\$ 0.05	\$ 80.00	<input type="text"/>
Marketing Costs	10% gross		\$ 8,000.00	\$ 800.00	<input type="text"/>
Refrigeration Costs	30 days		\$ 1.22	\$ 36.60	<input type="text"/>
Total Harvest and Marketing Variable Costs				\$ 1,416.60	<input type="text"/>
					<input type="text"/>
Total Harvest Costs				\$ 1,416.60	<input type="text"/>
TOTAL COSTS				\$ 3,539.74	<input type="text"/>
Operator and Unpaid Family Labor includes 60 hours pruning and thinning	76.75 hrs		\$ 15.00	\$ 1,151.25	<input type="text"/>
RETURN TO LAND, CAPITAL, AND MANAGEMENT				\$ 3,309.01	<input type="text"/>

Totals will vary slightly from budget details due to rounding of labor hours.

PEACHES, Kentucky 2019
Full Bearing Year Summary (Year 6)

	Quantity	Unit	\$/Unit	Total	Your Estimate
GROSS RETURNS	300 bushels		\$ 40.00	\$ 12,000.00	<input type="text"/>
VARIABLE COSTS					
PRODUCTION					
Fertilizer	1 acre		\$ 220.00	\$ 220.00	<input type="text"/>
Herbicide	1 acre		\$ 124.00	\$ 124.00	<input type="text"/>
Insecticide	1 acre		\$ 184.11	\$ 184.11	<input type="text"/>
Fungicide	1 acre		\$ 349.22	\$ 349.22	<input type="text"/>
Irrigation	5 months		\$ 41.33	\$ 206.65	<input type="text"/>
Pollination	1 hive		\$ 100.00	\$ 100.00	<input type="text"/>
Variable Machinery Costs	1 acre		\$ 33.59	\$ 33.59	<input type="text"/>
Hired Labor					<input type="text"/>
Pest Control, Weeding	5 hours		\$ 12.50	\$ 62.50	<input type="text"/>
Interest	1 acre		\$ 31.80	\$ 31.80	<input type="text"/>
TOTAL PRODUCTION COST				\$ 1,311.87	<input type="text"/>
RETURN ABOVE PREHARVEST VARIABLE COSTS				\$ 10,688.13	<input type="text"/>
FIXED COSTS					
Fixed Machinery Costs	1 acre		\$ 42.85	\$ 42.85	<input type="text"/>
Fixed Irrigation Costs	1 acre		\$ 257.14	\$ 257.14	<input type="text"/>
Fixed Costs on Refrigeration System	1 year		\$ 550.00	\$ 550.00	<input type="text"/>
TOTAL FIXED COST				\$ 849.99	<input type="text"/>
TOTAL PREHARVEST COSTS				\$ 2,161.86	<input type="text"/>
HARVESTING AND MARKETING					
Hired Labor	60 hours		\$ 12.50	\$ 750.00	<input type="text"/>
Containers	2400 bags		\$ 0.05	\$ 120.00	<input type="text"/>
Marketing Costs	10% gross		\$ 12,000.00	\$ 1,200.00	<input type="text"/>
Refrigeration Costs	30 days		\$ 1.22	\$ 36.60	<input type="text"/>
Total Harvest and Marketing Variable Costs				\$ 2,106.60	<input type="text"/>
				\$ -	<input type="text"/>
Total Harvest Costs				\$ 2,106.60	<input type="text"/>
TOTAL COSTS				\$ 4,268.46	<input type="text"/>
Operator and Unpaid Family Labor includes 60 hours pruning and thinning	76.75 hrs		\$ 15.00	\$ 1,151.25	<input type="text"/>
RETURN TO LAND, CAPITAL, AND MANAGEMENT				\$ 6,580.29	<input type="text"/>

Totals will vary slightly from budget details due to rounding of labor hours.