



2005
KY Grape Production Budgets
Estimated Costs and Returns

Table Grape Varieties

TABLE GRAPES, Kentucky 2005

Soil Buildup Year Summary

	Quantity	Unit	\$/Unit	Total	Your Estimate
GROSS RETURNS					
VARIABLE COSTS					
PRODUCTION					
Soil Test	2 assays		\$ 10.00	\$ 20.00	<input type="text"/>
Lime	3 tons		\$ 12.50	\$ 37.50	<input type="text"/>
Herbicide	2 quarts		\$ 16.90	\$ 33.80	<input type="text"/>
Grass Seed	90 lbs		\$ 0.70	\$ 63.00	<input type="text"/>
Variable Machinery Costs	1 acre		\$ 20.00	\$ 20.00	<input type="text"/>
TOTAL PRODUCTION COST				\$ 174.30	<input type="text"/>
RETURN ABOVE VARIABLE COSTS				\$ (174.30)	<input type="text"/>
FIXED COSTS					
Fixed Machinery & Equipment Costs	1 acre		\$ 35.00	\$ 35.00	<input type="text"/>
TOTAL FIXED COST				\$ 35.00	<input type="text"/>
TOTAL EXPENSES				\$ 209.30	<input type="text"/>
RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.				\$ (209.30)	<input type="text"/>
Operator and Unpaid Family Labor	2.10 hrs		\$ 10.00	\$ 21.00	<input type="text"/>
TOTAL OPERATOR AND UNPAID FAMILY LABOR				\$ 21.00	<input type="text"/>
RETURN TO LAND, CAPITAL, AND MANAGEMENT				\$ (230.30)	<input type="text"/>

Totals will vary slightly from budget details due to rounding.

TABLE GRAPES, Kentucky 2005

Planting Year Summary

	Quantity	Unit	\$/Unit	Total	Your Estimate
GROSS RETURNS					
VARIABLE COSTS					
PRODUCTION					
Herbicide (Burndown)	1 quart		\$ 16.90	\$ 16.90	
Herbicide	3 quarts		\$ 21.00	\$ 63.00	
Vines	600 vines		\$ 3.00	\$ 1,800.00	
Fertilizer	150 lbs		\$ 0.12	\$ 18.00	
Trellis Materials					
4" Posts	180 posts		\$ 4.55	\$ 819.00	
6" End Posts	50 posts		\$ 7.00	\$ 350.00	
Wire	13,000 feet		\$ 0.02	\$ 276.25	
Miscellaneous Trellis Materials	1 acre		\$ 275.00	\$ 275.00	
Hired Labor					
Planting	60 hours				
Build Trellis	60 hours				
TOTAL HIRED LABOR	120 hours		\$ 8.00	\$ 960.00	
Fungicides	3 applications		\$ 38.00	\$ 114.00	
Herbicides	3 quarts		\$ 12.80	\$ 38.40	
Insecticides	4 applications		\$ 15.00	\$ 60.00	
Irrigation	5 months		\$ 15.00	\$ 75.00	
Variable Machinery Costs	1 acre		\$ 45.00	\$ 45.00	
Interest	1 acre		\$ 171.87	\$ 171.87	
TOTAL PRODUCTION COST				\$ 5,082.42	
RETURN ABOVE VARIABLE COSTS				\$ (5,082.42)	
FIXED COSTS					
Fixed Machinery Costs	1 acre		\$ 80.00	\$ 80.00	
Fixed Costs on Irrigation System	1 year		\$ 180.00	\$ 180.00	
TOTAL FIXED COST				\$ 260.00	
TOTAL EXPENSES				\$ 5,342.42	
RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.				\$ (5,342.42)	
Operator and Unpaid Family Labor	70.00 hrs		\$ 10.00	\$ 700.00	
TOTAL OPERATOR AND UNPAID FAMILY LABOR				\$ 700.00	
RETURN TO LAND, CAPITAL, AND MANAGEMENT				\$ (6,042.42)	

Totals will vary slightly from budget details due to rounding.

TABLE GRAPES, Kentucky 2005

Growth (Year 2) Summary

	Quantity	Unit	\$/Unit	Total	Your Estimate
GROSS RETURNS					0
VARIABLE COSTS					
PRODUCTION					
Herbicide (Burndown)	1 quart		\$ 16.90	\$ 16.90	<input type="text"/>
Herbicide	3 quarts		\$ 21.00	\$ 63.00	<input type="text"/>
Fertilizer	300 lbs		\$ 0.10	\$ 30.00	<input type="text"/>
Hired Labor (Pruning)	16 hours		\$ 8.00	\$ 128.00	<input type="text"/>
Fungicides	3 applications		\$ 38.00	\$ 114.00	<input type="text"/>
Insecticides	4 applications		\$ 15.00	\$ 60.00	<input type="text"/>
Irrigation	5 months		\$ 15.00	\$ 75.00	<input type="text"/>
Variable Machinery Costs	1 acre		\$ 40.00	\$ 40.00	<input type="text"/>
Interest	1 acre		\$ 36.88	\$ 36.88	<input type="text"/>
TOTAL PRODUCTION COST				\$ 563.78	<input type="text"/>
RETURN ABOVE VARIABLE COSTS				\$ (563.78)	<input type="text"/>
FIXED COSTS					
Fixed Machinery & Equipment Costs	1 acre		\$ 60.00	\$ 60.00	<input type="text"/>
Fixed Costs on Irrigation System	1 year		\$ 180.00	\$ 180.00	<input type="text"/>
TOTAL FIXED COST				\$ 240.00	<input type="text"/>
TOTAL EXPENSES				\$ 803.78	<input type="text"/>
RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.				\$ (803.78)	<input type="text"/>
Operator and Unpaid Family Labor	40.00 hrs		\$ 10.00	\$ 400.00	<input type="text"/>
TOTAL OPERATOR AND UNPAID FAMILY LABOR				\$ 400.00	<input type="text"/>
RETURN TO LAND, CAPITAL, AND MANAGEMENT				\$ (1,203.78)	<input type="text"/>

Totals vary slightly from budget details due to rounding.

TABLE GRAPES, Kentucky 2005

First Production (Year 3) Summary

	Quantity	Unit	\$/Unit	Total	Your Estimate
GROSS RETURNS					
Grapes	1875 lbs		\$ 1.00	\$ 1,875.00	
Grapes	625 lbs		\$ 0.80	\$ 500.00	
Total Gross Returns				\$ 2,375.00	
VARIABLE COSTS					
PRODUCTION					
Herbicide (Spring)	2 quarts		\$ 21.00	\$ 42.00	
Herbicide (Spot Spray)	1.5 quarts		\$ 16.90	\$ 25.35	
Fertilizer	1200 lbs		\$ 0.12	\$ 144.00	
Fungicides	13 applications		\$ 41.00	\$ 533.00	
Insecticides	13 applications		\$ 20.00	\$ 260.00	
Irrigation	7 months		\$ 15.00	\$ 105.00	
Hired Labor (1/2 Pruning Time)	40 hours		\$ 8.00	\$ 320.00	
Variable Machinery Costs	1 acre		\$ 45.00	\$ 45.00	
TOTAL PREHARVEST COST				\$ 1,474.35	
HARVESTING AND MARKETING					
Harvest, Sort and Pack	40 hours		\$ 8.00	\$ 320.00	
Clamshells for Retailing	1500 clamshells		\$ 0.11	\$ 165.00	
Lugs for Picking and Wholesale	80 lugs		\$ 4.00	\$ 320.00	
Refrigeration	60 days		\$ 1.50	\$ 90.00	
Total Harvest and Marketing Cost				\$ 895.00	
Interest	1 acre		\$ 72.28	\$ 72.28	
TOTAL VARIABLE COST				\$ 2,441.63	
RETURN ABOVE VARIABLE COSTS				\$ (66.63)	
FIXED COSTS					
Fixed Machinery Costs	1 acre		\$ 50.00	\$ 50.00	
Fixed Costs on Irrigation System	1 year		\$ 180.00	\$ 180.00	
Fixed Costs on Cooling System	1 year		\$ 341.00	\$ 341.00	
Pest Control	1 year		\$ 225.00	\$ 225.00	
TOTAL FIXED COST				\$ 796.00	
TOTAL EXPENSES				\$ 3,237.63	
RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.				\$ (862.63)	
Operator and Unpaid Family Labor	100 hrs		\$ 10.00	\$ 1,000.00	
TOTAL OPERATOR AND UNPAID FAMILY LABOR				\$ 1,000.00	
RETURN TO LAND, CAPITAL, AND MANAGEMENT				\$ (1,862.63)	

Totals vary slightly from budget details due to rounding.

TABLE GRAPES, Kentucky 2005

Full Production (Year 4) Summary

	Quantity	Unit	\$/Unit	Total	Your Estimate
GROSS RETURNS					
Grapes	6000 lbs		\$ 1.00	\$ 6,000.00	
Grapes	2000 lbs		\$ 0.80	\$ 1,600.00	
Total Gross Returns				\$ 7,600.00	
VARIABLE COSTS					
PRODUCTION					
Herbicide (Spring)	1 applications		\$ 22.37	\$ 22.37	
Herbicide (Spot Spray)	1.5 quarts		\$ 16.90	\$ 25.35	
Fertilizer	600 lbs		\$ 0.10	\$ 60.00	
Fungicides	13 applications		\$ 41.00	\$ 533.00	
Insecticides	13 applications		\$ 20.00	\$ 260.00	
Irrigation	7 months		\$ 15.00	\$ 105.00	
Hired Labor (1/2 Pruning Time)	40 hours		\$ 8.00	\$ 320.00	
Variable Machinery Costs	1 acre		\$ 60.00	\$ 60.00	
TOTAL PREHARVEST COST				\$ 1,385.72	
HARVESTING AND MARKETING					
Harvest, Sort and Pack	130 hours		\$ 8.00	\$ 1,040.00	
Lugs for Picking & Wholesale	60 lugs		\$ 4.00	\$ 240.00	
Clamshells for Retailing	8000 clamshells		\$ 0.11	\$ 880.00	
Refrigeration	60 days		\$ 1.50	\$ 90.00	
Total Harvest and Marketing Cost				\$ 2,250.00	
Interest	1 acre		\$ 100.48	\$ 100.48	
TOTAL VARIABLE COST				\$ 3,736.20	
RETURN ABOVE VARIABLE COSTS				\$ 3,863.80	
FIXED COSTS					
Fixed Machinery Costs	1 acre		\$ 120.26	\$ 120.26	
Fixed Costs on Irrigation System	1 year		\$ 180.00	\$ 180.00	
Fixed Costs on Cooling System	1 year		\$ 341.00	\$ 341.00	
Pest Control	1 year		\$ 225.00	\$ 225.00	
TOTAL FIXED COST				\$ 866.26	
TOTAL EXPENSES				\$ 4,602.45	
RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.				\$ 2,997.55	
Operator and Unpaid Family Labor	80 hrs		\$ 10.00	\$ 800.00	
TOTAL OPERATOR AND UNPAID FAMILY LABOR				\$ 800.00	
RETURN TO LAND, CAPITAL, AND MANAGEMENT				\$ 2,197.55	

Totals vary slightly from budget details due to rounding.