



**2005**  
**KY Grape Production Budgets**  
**Estimated Costs and Returns**

**Vinifera Wine Grape Varieties**

# WINE GRAPES, Kentucky, 2005

## Vinifera

Soil Buildup Year Summary (Year 0)

	Quantity	Unit	\$/Unit	Total	Your Estimate
<b>GROSS RETURNS</b>					
<b>VARIABLE COSTS</b>					
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"/>
<b>RETURN ABOVE VARIABLE COSTS</b>				<b>\$ (174.30)</b>	<input type="text"/>
<b>FIXED COSTS</b>					
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"/>
<b>RETURN TO LAND, CAPITAL, AND MANAGEMENT</b>				<b>\$ (230.30)</b>	<input type="text"/>

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

# WINE GRAPES, Kentucky 2005

## Vinifera

Planting Year Summary (Year 1)

	Quantity	Unit	\$/Unit	Total	Your Estimate
<b>GROSS RETURNS</b>					
<b>VARIABLE COSTS</b>					
<b>PRODUCTION</b>					
Herbicide (Burndown)	1.5	quarts	\$ 16.90	\$ 25.35	<input type="text"/>
Herbicide	2	quarts	\$ 38.47	\$ 76.93	<input type="text"/>
Vines	778	vines	\$ 4.00	\$ 3,112.00	<input type="text"/>
Fertilizer	150	lbs	\$ 0.12	\$ 18.00	<input type="text"/>
Grow Tubes	778	tubes	\$ 0.85	\$ 661.30	<input type="text"/>
Bamboo Stakes	778	stakes	\$ 0.20	\$ 155.60	<input type="text"/>
<b>Trellis Materials</b>					
4" Posts	216	posts	\$ 4.55	\$ 982.80	<input type="text"/>
6" End Posts	72	posts	\$ 7.00	\$ 504.00	<input type="text"/>
Wire	37,800	feet	\$ 0.025	\$ 945.00	<input type="text"/>
Miscellaneous Trellis Materials	1	acre	\$ 275.00	\$ 275.00	<input type="text"/>
<b>Hired Labor</b>					
Planting	60	hours	\$ 8.00		<input type="text"/>
Build Trellis	60	hours	\$ 8.00		<input type="text"/>
<b>TOTAL HIRED LABOR</b>	<b>120</b>	<b>hours</b>	<b>\$ 8.00</b>	<b>\$ 960.00</b>	<input type="text"/>
Herbicides	3	quarts	\$ 12.80	\$ 38.40	<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	\$ 10.00	\$ 10.00	<input type="text"/>
Interest	1	acre	\$ 280.47	\$ 280.47	<input type="text"/>
<b>TOTAL PRODUCTION COST</b>				<b>\$ 8,293.85</b>	<input type="text"/>
<b>RETURN ABOVE VARIABLE COSTS</b>				<b>\$ (8,293.85)</b>	<input type="text"/>
<b>FIXED COSTS</b>					
Fixed Machinery Costs	1	acre	\$ 80.00	\$ 80.00	<input type="text"/>
Fixed Costs on Irrigation System	1	year	\$ 180.00	\$ 180.00	<input type="text"/>
<b>TOTAL FIXED COST</b>				<b>\$ 260.00</b>	<input type="text"/>
<b>TOTAL EXPENSES</b>				<b>\$ 8,553.85</b>	<input type="text"/>
<b>RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.</b>				<b>\$ (8,553.85)</b>	<input type="text"/>
Operator and Unpaid Family Labor	70.00	hrs	\$ 10.00	\$ 700.00	<input type="text"/>
<b>TOTAL OPERATOR AND UNPAID FAMILY LABOR</b>				<b>\$ 700.00</b>	<input type="text"/>
<b>RETURN TO LAND, CAPITAL, AND MANAGEMENT</b>				<b>\$ (9,253.85)</b>	<input type="text"/>

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

# WINE GRAPES, Kentucky 2005

## Vinifera

Growth Year Summary (Year 2)

	Quantity	Unit	\$/Unit	Total	Your Estimate
<b>GROSS RETURNS</b>	1 Ton		\$ 1,150.00	\$ 1,150.00	
<b>VARIABLE COSTS</b>					
<b>PRODUCTION</b>					
Herbicide	2 quarts		\$ 19.23	\$ 38.47	
Fertilizer	300 lbs		\$ 0.10	\$ 30.00	
Plants (Replant 2% Original Planting)	12 plants		\$ 4.00	\$ 48.00	
Hired Labor					
1/2 Pruning Time	10 hours		\$ 8.00		
1/2 Additional Shoot Maintenance	10 hours		\$ 8.00		
Weed Control (Hoeing)	24 hours		\$ 8.00		
<i>Total Hired Labor Cost</i>	44 hours		\$ 8.00	\$ 352.00	
Fungicides	3 applications		\$ 38.00	\$ 114.00	
Insecticides	4 applications		\$ 15.00	\$ 60.00	
Irrigation	5 months		\$ 15.00	\$ 75.00	
Variable Machinery Costs	1 acre		\$ 40.00	\$ 40.00	
Interest	1 acre		\$ 39.77	\$ 39.77	
<b>TOTAL PRODUCTION COST</b>				\$ 797.23	
<b>RETURN ABOVE VARIABLE COSTS</b>				\$ 352.77	
<b>HARVESTING AND MARKETING</b>					
Harvest	17 hours		\$ 8.00	\$ 136.00	
Harvest Lugs	20 lugs		\$ 4.00	\$ 80.00	
<b>Total Harvest and Marketing Cost</b>				\$ 216.00	
				\$ 10.00	
<b>FIXED COSTS</b>					
Fixed Machinery & Equipment Costs	1 acre		\$ 60.00	\$ 60.00	
Pest Control	1 year		\$ 225.00	\$ 225.00	
<b>TOTAL FIXED COST</b>				\$ 285.00	
<b>TOTAL EXPENSES</b>				\$ 1,298.23	
<b>RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.</b>				\$ (148.23)	
Operator and Unpaid Family Labor	40.00 hrs		\$ 10.00	\$ 400.00	
<b>TOTAL OPERATOR AND UNPAID FAMILY LABOR</b>				\$ 400.00	
<b>RETURN TO LAND, CAPITAL, AND MANAGEMENT</b>				\$ (548.23)	

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

# WINE GRAPES, Kentucky 2005

## Vinifera

First Production Summary (Year 3)

	Quantity	Unit	\$/Unit	Total	Your Estimate
<b>GROSS RETURNS</b>					
Grapes	3.5 tons		\$ 1,150.00	\$ 4,025.00	<input type="text"/>
<b>Total Gross Returns</b>				\$ 4,025.00	
<b>VARIABLE COSTS</b>					
PRODUCTION					
Herbicide (Spring Apply)	2 quarts		\$ 19.23	\$ 38.47	<input type="text"/>
Herbicide (Spot Spray)	1.5 quarts		\$ 16.90	\$ 25.35	<input type="text"/>
Fertilizer	205 lbs		\$ 0.12	\$ 24.60	<input type="text"/>
Tissue Sampling and Analysis	1 analysis		\$ 25.00	\$ 25.00	<input type="text"/>
Fungicides	13 applications		\$ 41.00	\$ 533.00	<input type="text"/>
Insecticides	13 applications		\$ 20.00	\$ 260.00	<input type="text"/>
Hired Labor					<input type="text"/>
1/2 Pruning Time	40 hours		\$ 8.00		<input type="text"/>
1/2 Training, Thinning, Tying	24 hours		\$ 8.00		<input type="text"/>
<i>Total Preharvest Hired Labor</i>	64 hours		\$ 8.00	\$ 512.00	<input type="text"/>
Variable Machinery Costs	1 acre		\$ 60.00	\$ 60.00	<input type="text"/>
<b>TOTAL PREHARVEST COST</b>				\$ 1,478.42	<input type="text"/>
HARVESTING AND MARKETING					
Harvest	59.5 hours		\$ 8.00	\$ 476.00	<input type="text"/>
Harvest Lugs	40 lugs		\$ 4.00	\$ 160.00	<input type="text"/>
<b>Total Harvest and Marketing Cost</b>				\$ 636.00	<input type="text"/>
Interest (9 months)	1 acre		\$ 10.00	\$ 10.00	<input type="text"/>
<b>TOTAL VARIABLE COST</b>				\$ 2,124.42	<input type="text"/>
<b>RETURN ABOVE VARIABLE COSTS</b>				\$ 1,900.59	<input type="text"/>
<b>FIXED COSTS</b>					
Fixed Machinery Costs	1 acre		\$ 75.00	\$ 75.00	<input type="text"/>
Pest Control	1 year		\$ 225.00	\$ 225.00	<input type="text"/>
<b>TOTAL FIXED COST</b>				\$ 300.00	<input type="text"/>
<b>TOTAL EXPENSES</b>				\$ 2,424.42	<input type="text"/>
<b>RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.</b>				\$ 1,600.59	<input type="text"/>
Operator and Unpaid Family Labor	60 hrs		\$ 10.00	\$ 600.00	<input type="text"/>
<b>TOTAL OPERATOR AND UNPAID FAMILY LABOR</b>				\$ 600.00	<input type="text"/>
<b>RETURN TO LAND, CAPITAL, AND MANAGEMENT</b>				\$ 1,000.59	<input type="text"/>

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

# WINE GRAPES, Kentucky 2005

## Vinifera

First Full Production Summary (Year 4)

	Quantity	Unit	\$/Unit	Total	Your Estimate
<b>GROSS RETURNS</b>					
Grapes	4.5 tons		\$ 1,150.00	\$ 5,175.00	<input type="text"/>
<b>Total Gross Returns</b>				\$ 5,175.00	
<b>VARIABLE COSTS</b>					
PRODUCTION					
Herbicide (Spring)	1 applications		\$ 44.73	\$ 44.73	<input type="text"/>
Herbicide (Spot Spray)	1.5 quarts		\$ 16.90	\$ 25.35	<input type="text"/>
Fertilizer	400 lbs		\$ 0.10	\$ 40.00	<input type="text"/>
Fungicides	13 applications		\$ 41.00	\$ 533.00	<input type="text"/>
Insecticides	13 applications		\$ 20.00	\$ 260.00	<input type="text"/>
Hired Labor					<input type="text"/>
1/2 Pruning Time	40 hours		\$ 8.00		<input type="text"/>
1/2 Shoot Positioning, Thinning, etc.	24 hours		\$ 8.00		<input type="text"/>
<i>Total Hired Labor</i>	64 hours		\$ 8.00	\$ 512.00	<input type="text"/>
Variable Machinery Costs	1 acre		\$ 65.00	\$ 65.00	<input type="text"/>
<b>TOTAL PREHARVEST COST</b>				\$ 1,480.08	<input type="text"/>
HARVESTING AND MARKETING					
Harvest	76.5 hours		\$ 8.00	\$ 612.00	<input type="text"/>
Harvest Lugs	20 lugs		\$ 4.00	\$ 80.00	<input type="text"/>
<b>Total Harvest and Marketing Cost</b>				\$ 692.00	<input type="text"/>
Interest (9 months)	1 acre		\$ 114.03	\$ 114.03	<input type="text"/>
<b>TOTAL VARIABLE COST</b>			\$ 10.00	\$ 2,286.12	<input type="text"/>
<b>RETURN ABOVE VARIABLE COSTS</b>				\$ 2,888.88	<input type="text"/>
<b>FIXED COSTS</b>					
Fixed Machinery Costs	1 acre		\$ 75.00	\$ 75.00	<input type="text"/>
Pest Control	1 year		\$ 225.00	\$ 225.00	<input type="text"/>
<b>TOTAL FIXED COST</b>				\$ 300.00	<input type="text"/>
<b>TOTAL EXPENSES</b>				\$ 2,586.12	<input type="text"/>
<b>RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.</b>				\$ 2,588.88	<input type="text"/>
Operator and Unpaid Family Labor	80 hrs		\$ 10.00	\$ 800.00	<input type="text"/>
<b>TOTAL OPERATOR AND UNPAID FAMILY LABOR</b>				\$ 800.00	<input type="text"/>
<b>RETURN TO LAND, CAPITAL, AND MANAGEMENT</b>				\$ 1,788.88	<input type="text"/>

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

# WINE GRAPES, Kentucky 2005

## Vinifera

Full Production Summary (Year 5)

	Quantity	Unit	\$/Unit	Total	Your Estimate
<b>GROSS RETURNS</b>					
Grapes	4.5 tons		\$ 1,150.00	\$ 5,175.00	<input type="text"/>
<b>Total Gross Returns</b>				\$ 5,175.00	
<b>VARIABLE COSTS</b>					
PRODUCTION					
Herbicide (Spring)	1 applications		\$ 44.73	\$ 44.73	<input type="text"/>
Herbicide (Spot Spray)	1.5 quarts		\$ 16.90	\$ 25.35	<input type="text"/>
Fertilizer	300 lbs		\$ 0.12	\$ 36.00	<input type="text"/>
Fungicides	13 applications		\$ 41.00	\$ 533.00	<input type="text"/>
Insecticides	13 applications		\$ 20.00	\$ 260.00	<input type="text"/>
Hired Labor					<input type="text"/>
1/2 Pruning Time	40 hours		\$ 8.00		<input type="text"/>
1/2 Shoot Positioning, Thinning, etc.	24 hours		\$ 8.00		<input type="text"/>
<i>Total Hired Labor</i>	64 hours		\$ 8.00	\$ 512.00	<input type="text"/>
Variable Machinery Costs	1 acre		\$ 65.00	\$ 65.00	<input type="text"/>
<b>TOTAL PREHARVEST COST</b>				\$ 1,476.08	<input type="text"/>
HARVESTING AND MARKETING					
Harvest	76.5 hours		\$ 8.00	\$ 612.00	<input type="text"/>
<b>Total Harvest and Marketing Cost</b>				\$ 612.00	<input type="text"/>
Interest (9 months)	1 acre		\$ 109.62	\$ 109.62	<input type="text"/>
<b>TOTAL VARIABLE COST</b>				\$ 2,197.71	<input type="text"/>
<b>RETURN ABOVE VARIABLE COSTS</b>				\$ 2,977.29	<input type="text"/>
<b>FIXED COSTS</b>					
Fixed Machinery Costs	1 acre		\$ 75.00	\$ 75.00	<input type="text"/>
Pest Control	1 year		\$ 225.00	\$ 225.00	<input type="text"/>
<b>TOTAL FIXED COST</b>				\$ 300.00	<input type="text"/>
<b>TOTAL EXPENSES</b>				\$ 2,497.71	<input type="text"/>
<b>RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.</b>				\$ 2,677.29	<input type="text"/>
Operator and Unpaid Family Labor	80 hrs		\$ 10.00	\$ 800.00	<input type="text"/>
<b>TOTAL OPERATOR AND UNPAID FAMILY LABOR</b>				\$ 800.00	<input type="text"/>
<b>RETURN TO LAND, CAPITAL, AND MANAGEMENT</b>				\$ 1,877.29	<input type="text"/>

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