

# WINE GRAPES, Kentucky, 2016

## Vinifera

Soil Buildup Year Summary (Year 0)



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

Center for Crop Diversification Budget

CCD-BG-9

	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	\$ 20.00	\$ 60.00	<input type="text"/>
Herbicide	2	quarts	\$ 12.00	\$ 24.00	<input type="text"/>
Grass Seed	90	lbs	\$ 0.80	\$ 72.00	<input type="text"/>
Variable Machinery Costs	1	acre	\$ 33.20	\$ 33.20	<input type="text"/>
Interest on Operating Costs	9%		\$ 9.41	\$ 9.41	<input type="text"/>
TOTAL PRODUCTION COST				\$ 218.61	<input type="text"/>
<b>RETURN ABOVE VARIABLE COSTS</b>				<b>\$ (218.61)</b>	<input type="text"/>
<b>FIXED COSTS</b>					
Fixed Machinery & Equipment Costs	1	acre	\$ 41.26	\$ 41.26	<input type="text"/>
TOTAL FIXED COST				\$ 41.26	<input type="text"/>
TOTAL EXPENSES				\$ 259.87	<input type="text"/>
RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.				\$ (259.87)	<input type="text"/>
Operator and Unpaid Family Labor	1.82	hrs	\$ 15.00	\$ 27.30	<input type="text"/>
TOTAL OPERATOR AND UNPAID FAMILY LABOR				\$ 27.30	<input type="text"/>
<b>RETURN TO LAND, CAPITAL, AND MANAGEMENT</b>				<b>\$ (287.17)</b>	<input type="text"/>

# WINE GRAPES, Kentucky 2016

## Vinifera

Planting Year Summary (Year 1)

	Quantity	Unit	\$/Unit	Total	Your Estimate
<b>GROSS RETURNS</b>					
<b>VARIABLE COSTS</b>					
PRODUCTION					
Herbicide (Burndown)	1.5	quarts	\$ 12.00	\$ 18.00	
Herbicide	0.5	gallons	\$ 60.00	\$ 30.00	
Vines	605	vines	\$ 5.00	\$ 3,025.00	
Fertilizer	1	acre	\$ 65.04	\$ 65.04	
Grow Tubes	605	tubes	\$ 1.25	\$ 756.25	
Bamboo Stakes	605	stakes	\$ 0.20	\$ 121.00	
Trellis Materials					
VSP Posts	196	posts	\$ 8.00	\$ 1,568.00	
End Posts	28	posts	\$ 28.00	\$ 784.00	
Wire	15	rolls	\$ 110.00	\$ 1,650.00	
Miscellaneous Trellis Materials	1	acre	\$ 428.00	\$ 428.00	
Hired Labor					
Planting	84.5	hours	\$ 10.00		
Build Trellis	60.0	hours	\$ 10.00		
TOTAL HIRED LABOR	144.5	hours	\$ 10.00	\$ 1,445.00	
Herbicides	3	quarts	\$ 12.00	\$ 36.00	
Fungicides	1	acre		\$ 195.50	
Insecticides	1	acre		\$ 105.00	
Irrigation	5	months	\$ 49.60	\$ 248.00	
Variable Machinery Costs	1	acre	\$ 98.63	\$ 98.63	
Interest	1	acre	\$ 475.80	\$ 475.80	
TOTAL PRODUCTION COST				\$ 11,049.22	
<b>RETURN ABOVE VARIABLE COSTS</b>				<b>\$ (11,049.22)</b>	
<b>FIXED COSTS</b>					
Fixed Machinery Costs	1	acre	\$ 101.01	\$ 101.01	
Fixed Costs on Irrigation System	1	year	\$ 258.00	\$ 258.00	
TOTAL FIXED COST				\$ 359.01	
TOTAL EXPENSES				\$ 11,408.23	
RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.				\$ (11,408.23)	
Operator and Unpaid Family Labor	45	hrs	\$ 15.00	\$ 680.55	
TOTAL OPERATOR AND UNPAID FAMILY LABOR				\$ 680.55	
<b>RETURN TO LAND, CAPITAL, AND MANAGEMENT</b>				<b>\$ (12,088.78)</b>	

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

# WINE GRAPES, Kentucky 2016

## Vinifera

Growth Year Summary (Year 2)

	Quantity	Unit	\$/Unit	Total	Your Estimate
<b>GROSS RETURNS</b>	1 Ton		\$ 1,350.00	\$ 1,350.00	<input type="text"/>
<b>VARIABLE COSTS</b>					
<b>PRODUCTION</b>					
Herbicide	1 acre		\$ 30.00	\$ 30.00	<input type="text"/>
Fertilizer	1 acre		\$ 120.00	\$ 120.00	<input type="text"/>
Plants (Replant 2% Original Planting)	12 plants		\$ 5.00	\$ 60.00	<input type="text"/>
Misc Shoot Management materials	1 acre		\$ 7.50	\$ 7.50	<input type="text"/>
Fungicides	1 acre		\$ 226.50	\$ 226.50	<input type="text"/>
Insecticides	1 acre		\$ 182.00	\$ 182.00	<input type="text"/>
Irrigation	5 months		\$ 49.60	\$ 248.00	<input type="text"/>
Variable Machinery Costs	1 acre		\$ 45.50	\$ 45.50	<input type="text"/>
Hired Labor	49 hours		\$ 10.00	\$ 490.00	<input type="text"/>
Interest	1 acre		\$ 63.43	\$ 63.43	<input type="text"/>
<b>TOTAL PRODUCTION COST</b>				\$ 1,472.93	<input type="text"/>
<b>RETURN ABOVE VARIABLE COSTS</b>				\$ (122.93)	<input type="text"/>
<b>HARVESTING AND MARKETING</b>					
Harvest	17 hours		\$ 10.00	\$ 170.00	<input type="text"/>
Harvest Lugs	20 lugs		\$ 10.00	\$ 200.00	<input type="text"/>
<b>Total Harvest and Marketing Cost</b>				\$ 370.00	<input type="text"/>
<b>FIXED COSTS</b>					
Fixed Machinery & Equipment Costs	1 acre		\$ 66.16	\$ 66.16	<input type="text"/>
Fixed Costs on Irrigation System	1 year		\$ 258.00	\$ 258.00	<input type="text"/>
Pest Control	1 year		\$ 275.00	\$ 275.00	<input type="text"/>
<b>TOTAL FIXED COST</b>				\$ 599.16	<input type="text"/>
<b>TOTAL EXPENSES</b>				\$ 2,442.09	<input type="text"/>
<b>RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.</b>				\$ (1,092.09)	<input type="text"/>
Operator and Unpaid Family Labor	55.11 hrs		\$ 15.00	\$ 826.65	<input type="text"/>
<b>TOTAL OPERATOR AND UNPAID FAMILY LABOR</b>				\$ 826.65	<input type="text"/>
<b>RETURN TO LAND, CAPITAL, AND MANAGEMENT</b>				\$ (1,918.74)	<input type="text"/>

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

# WINE GRAPES, Kentucky 2016

## Vinifera

Second Fruiting Year Summary (Year 3)

	Quantity	Unit	\$/Unit	Total	Your Estimate
<b>GROSS RETURNS</b>					
Grapes	3.5	tons	\$ 1,350.00	\$ 4,725.00	<input type="text"/>
<b>Total Gross Returns</b>				\$ 4,725.00	<input type="text"/>
<b>VARIABLE COSTS</b>					
<b>PRODUCTION</b>					
Herbicide	1	acre	\$ 48.00	\$ 48.00	<input type="text"/>
Fertilizer	1	acre	\$ 71.85	\$ 71.85	<input type="text"/>
Tissue Analysis, Misc.	1	acre	\$ 30.00	\$ 30.00	<input type="text"/>
Fungicides	1	acre	\$ 380.45	\$ 380.45	<input type="text"/>
Insecticides	1	acre	\$ 265.00	\$ 265.00	<input type="text"/>
Hired Labor	112	hours	\$ 10.00	\$ 1,115.60	<input type="text"/>
Variable Machinery Costs	1	acre	\$ 59.45	\$ 59.45	<input type="text"/>
Interest on Preharvest Costs	6	months		\$ 88.67	<input type="text"/>
<b>TOTAL PREHARVEST COST</b>				\$ 2,059.02	<input type="text"/>
<b>HARVESTING AND MARKETING</b>					
Harvest	59.5	hours	\$ 10.00	\$ 595.00	<input type="text"/>
Harvest Lugs	30	lugs	\$ 10.00	\$ 300.00	<input type="text"/>
<b>Total Harvest and Marketing Cost</b>				\$ 895.00	<input type="text"/>
<b>TOTAL VARIABLE COST</b>				\$ 2,954.02	<input type="text"/>
<b>RETURN ABOVE VARIABLE COSTS</b>				\$ 1,770.98	<input type="text"/>
<b>FIXED COSTS</b>					
Fixed Machinery Costs	1	acre	\$ 89.66	\$ 89.66	<input type="text"/>
Pest Control	1	year	\$ 275.00	\$ 275.00	<input type="text"/>
<b>TOTAL FIXED COST</b>				\$ 364.66	<input type="text"/>
<b>TOTAL EXPENSES</b>				\$ 3,318.68	<input type="text"/>
<b>RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.</b>				\$ 1,406.32	<input type="text"/>
Operator and Unpaid Family Labor	78	hrs	\$ 15.00	\$ 1,170.45	<input type="text"/>
<b>TOTAL OPERATOR AND UNPAID FAMILY LABOR</b>				\$ 1,170.45	<input type="text"/>
<b>RETURN TO LAND, CAPITAL, AND MANAGEMENT</b>				\$ 235.87	<input type="text"/>

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# WINE GRAPES, Kentucky 2016

## Vinifera

First Full Production Summary (Year 4)

	Quantity	Unit	\$/Unit	Total	Your Estimate
<b>GROSS RETURNS</b>					
Grapes	4.5	tons	\$ 1,350.00	\$ 6,075.00	<input type="text"/>
<b>Total Gross Returns</b>				\$ 6,075.00	<input type="text"/>
<b>VARIABLE COSTS</b>					
<b>PRODUCTION</b>					
Herbicide	1	acre	\$ 60.75	\$ 60.75	<input type="text"/>
Tissue Analysis	1	acre	\$ 25.00	\$ 25.00	<input type="text"/>
Fertilizer	1	acre	\$ 76.15	\$ 76.15	<input type="text"/>
Fungicides	1	acre	\$ 423.95	\$ 423.95	<input type="text"/>
Insecticides	1	acre	\$ 265.00	\$ 265.00	<input type="text"/>
Hired Labor	130	hours	\$ 10.00	\$ 1,296.70	<input type="text"/>
Variable Machinery Costs	1	acre	\$ 54.32	\$ 54.32	<input type="text"/>
Interest	6	months		\$ 99.08	<input type="text"/>
<b>TOTAL PREHARVEST COST</b>				\$ 2,300.95	<input type="text"/>
<b>HARVESTING AND MARKETING</b>					
Harvest	76.5	hours	\$ 10.00	\$ 765.00	<input type="text"/>
Harvest Lugs	20	lugs	\$ 10.00	\$ 200.00	<input type="text"/>
<b>Total Harvest and Marketing Cost</b>				\$ 965.00	<input type="text"/>
<b>TOTAL VARIABLE COST</b>				\$ 3,265.95	<input type="text"/>
<b>RETURN ABOVE VARIABLE COSTS</b>				\$ 2,809.05	<input type="text"/>
<b>FIXED COSTS</b>					
Fixed Machinery Costs	1	acre	\$ 84.16	\$ 84.16	<input type="text"/>
Pest Control	1	year	\$ 275.00	\$ 275.00	<input type="text"/>
<b>TOTAL FIXED COST</b>				\$ 359.16	<input type="text"/>
<b>TOTAL EXPENSES</b>				\$ 3,625.11	<input type="text"/>
<b>RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.</b>				\$ 2,449.89	<input type="text"/>
Operator and Unpaid Family Labor	57	hrs	\$ 15.00	\$ 855.45	<input type="text"/>
<b>TOTAL OPERATOR AND UNPAID FAMILY LABOR</b>				\$ 855.45	<input type="text"/>
<b>RETURN TO LAND, CAPITAL, AND MANAGEMENT</b>				\$ 1,594.44	<input type="text"/>

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# WINE GRAPES, Kentucky 2016

## Vinifera

Full Production Summary (Year 5)

	Quantity	Unit	\$/Unit	Total	Your Estimate
<b>GROSS RETURNS</b>					
Grapes	4.5	tons	\$ 1,350.00	\$ 6,075.00	<input type="text"/>
<b>Total Gross Returns</b>				\$ 6,075.00	<input type="text"/>
<b>VARIABLE COSTS</b>					
PRODUCTION					
Herbicide	1	acre	\$ 60.75	\$ 60.75	<input type="text"/>
Tissue Analysis	1	acre	\$ 25.00	\$ 25.00	<input type="text"/>
Fertilizer	1	acre	\$ 76.15	\$ 76.15	<input type="text"/>
Fungicides	1	acre	\$ 423.95	\$ 423.95	<input type="text"/>
Insecticides	1	acre	\$ 265.00	\$ 265.00	<input type="text"/>
Total Hired Labor	136	hours	\$ 10.00	\$ 1,356.70	<input type="text"/>
Variable Machinery Costs	1	acre	\$ 52.85	\$ 52.85	<input type="text"/>
Interest on Preharvest Costs	6	months		\$ 101.72	<input type="text"/>
<b>TOTAL PREHARVEST COST</b>				\$ 2,362.12	<input type="text"/>
HARVESTING AND MARKETING					
Harvest	76.5	hours	\$ 10.00	\$ 765.00	<input type="text"/>
<b>Total Harvest and Marketing Cost</b>				\$ 765.00	<input type="text"/>
<b>TOTAL VARIABLE COST</b>				\$ 3,127.12	<input type="text"/>
<b>RETURN ABOVE VARIABLE COSTS</b>				\$ 2,947.88	<input type="text"/>
<b>FIXED COSTS</b>					
Fixed Machinery Costs	1	acre	\$ 81.16	\$ 81.16	<input type="text"/>
Pest Control	1	year	\$ 275.00	\$ 275.00	<input type="text"/>
<b>TOTAL FIXED COST</b>				\$ 356.16	<input type="text"/>
<b>TOTAL EXPENSES</b>				\$ 3,483.28	<input type="text"/>
<b>RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.</b>				\$ 2,591.72	<input type="text"/>
Operator and Unpaid Family Labor	46	hrs	\$ 15.00	\$ 696.75	<input type="text"/>
<b>TOTAL OPERATOR AND UNPAID FAMILY LABOR</b>				\$ 696.75	<input type="text"/>
<b>RETURN TO LAND, CAPITAL, AND MANAGEMENT</b>				\$ 1,894.97	<input type="text"/>

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