



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

**French-American Hybrid and**  
**American Wine Grape Varieties**

**WINE GRAPES, Kentucky, 2005**  
**French-American Hybrid and American Varieties**  
 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

## French-American Hybrid & American Varieties

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             |               |
| Herbicide  | 2          | quarts       | \$ 38.47       | \$ 76.93             |               |
| Vines  | 605        | vines        | \$ 1.80        | \$ 1,089.00          |               |
| Fertilizer   | 150        | lbs          | \$ 0.12        | \$ 18.00             |               |
| Grow Tubes   | 605        | tubes        | \$ 0.85        | \$ 514.25            |               |
| Bamboo Stakes  | 605        | stakes       | \$ 0.20        | \$ 121.00            |               |
| <b>Trellis Materials</b>                                 |            |              |                |                      |               |
| 4" Posts   | 192        | posts        | \$ 4.55        | \$ 873.60            |               |
| 6" End Posts   | 64         | posts        | \$ 7.00        | \$ 448.00            |               |
| Wire   | 4,800      | feet         | \$ 0.025       | \$ 120.00            |               |
| Miscellaneous Trellis Materials                          | 1          | acre         | \$ 275.00      | \$ 275.00            |               |
| <b>Hired Labor</b>                                       |            |              |                |                      |               |
| Planting   | 60         | hours        | \$ 8.00        |                      |               |
| Build Trellis  | 60         | hours        | \$ 8.00        |                      |               |
| <b>TOTAL HIRED LABOR</b>                                 | <b>120</b> | <b>hours</b> | <b>\$ 8.00</b> | <b>\$ 960.00</b>     |               |
| Herbicides   | 3          | quarts       | \$ 12.80       | \$ 38.40             |               |
| 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         | \$ 45.00       | \$ 45.00             |               |
| Interest   | 1          | acre         | \$ 254.81      | \$ 254.81            |               |
| <b>TOTAL PRODUCTION COST</b>                             |            |              |                | <b>\$ 5,108.34</b>   |               |
| <b>RETURN ABOVE VARIABLE COSTS</b>                       |            |              |                | <b>\$ (5,108.34)</b> |               |
| <b>FIXED COSTS</b>                                       |            |              |                |                      |               |
| Fixed Machinery Costs                                    | 1          | acre         | \$ 80.00       | \$ 80.00             |               |
| Fixed Costs on Irrigation System                         | 1          | year         | \$ 180.00      | \$ 180.00            |               |
| <b>TOTAL FIXED COST</b>                                  |            |              |                | <b>\$ 260.00</b>     |               |
| <b>TOTAL EXPENSES</b>                                    |            |              |                | <b>\$ 5,368.34</b>   |               |
| <b>RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.</b> |            |              |                | <b>\$ (5,368.34)</b> |               |
| Operator and Unpaid Family Labor                         | 70.00      | hrs          | \$ 10.00       | \$ 700.00            |               |
| <b>TOTAL OPERATOR AND UNPAID FAMILY LABOR</b>            |            |              |                | <b>\$ 700.00</b>     |               |
| <b>RETURN TO LAND, CAPITAL, AND MANAGEMENT</b>           |            |              |                | <b>\$ (6,068.34)</b> |               |

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

**WINE GRAPES, Kentucky 2005**  
**French-American Hybrid and American Varieties**  
 Growth Year Summary (Year 2)

|  | Quantity       | Unit | \$/Unit   | Total       | Your Estimate |
|--|----------------|------|-----------|-------------|---------------|
| <b>GROSS RETURNS</b>                                     | 2 tons         |      | \$ 950.00 | \$ 1,900.00 |               |
| <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      |      | \$ 1.80   | \$ 21.60    |               |
| Hired Labor  |                |      |           |             |               |
| 1/2 Pruning Time   | 10 hours       |      | \$ 8.00   |             |               |
| 1/2 Additional Shoot Maintenance                         | 10 hours       |      | \$ 8.00   |             |               |
| <i>Total Hired Labor Cost</i>                            | 20 hours       |      | \$ 8.00   | \$ 160.00   |               |
| 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         |      | \$ 28.30  | \$ 28.30    |               |
| <b>TOTAL PRODUCTION COST</b>                             |                |      |           | \$ 567.37   |               |
| <b>RETURN ABOVE VARIABLE COSTS</b>                       |                |      |           | \$ 1,332.63 |               |
| <b>HARVESTING AND MARKETING</b>                          |                |      |           |             |               |
| Harvest  | 34 hours       |      | \$ 8.00   | \$ 272.00   |               |
| Harvest Lugs   | 40 lugs        |      | \$ 4.00   | \$ 160.00   |               |
| <b>Total Harvest and Marketing Cost</b>                  |                |      |           | \$ 432.00   |               |
| <b>FIXED COSTS</b>                                       |                |      |           |             |               |
| Fixed Machinery & Equipment Costs                        | 1 acre         |      | \$ 60.00  | \$ 60.00    |               |
| Fixed Costs on Irrigation System                         | 1 year         |      | \$ 180.00 | \$ 180.00   |               |
| Pest Control   | 1 year         |      | \$ 225.00 | \$ 225.00   |               |
| <b>TOTAL FIXED COST</b>                                  |                |      |           | \$ 465.00   |               |
| <b>TOTAL EXPENSES</b>                                    |                |      |           | \$ 1,464.37 |               |
| <b>RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.</b> |                |      |           | \$ 435.63   |               |
| 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>           |                |      |           | \$ 35.63    |               |

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

**WINE GRAPES, Kentucky 2005**  
**French-American Hybrid & American Varieties**  
 First Production Summary (Year 3)

|  | Quantity        | Unit | \$/Unit   | Total       | Your Estimate        |
|--|-----------------|------|-----------|-------------|----------------------|
| <b>GROSS RETURNS</b>                                     |                 |      |           |             |                      |
| Grapes   | 4.5 tons        |      | \$ 950.00 | \$ 4,275.00 | <input type="text"/> |
| <b>Total Gross Returns</b>                               |                 |      |           | \$ 4,275.00 |                      |
| <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  | 76.5 hours      |      | \$ 8.00   | \$ 612.00   | <input type="text"/> |
| Harvest Lugs   | 40 lugs         |      | \$ 4.00   | \$ 160.00   | <input type="text"/> |
| <b>Total Harvest and Marketing Cost</b>                  |                 |      |           | \$ 772.00   | <input type="text"/> |
| Interest (9 months)                                      | 1 acre          |      | \$ 118.15 | \$ 118.15   | <input type="text"/> |
| <b>TOTAL VARIABLE COST</b>                               |                 |      |           | \$ 2,368.56 | <input type="text"/> |
| <b>RETURN ABOVE VARIABLE COSTS</b>                       |                 |      |           | \$ 1,906.44 | <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>                                    |                 |      |           | \$ 2,668.56 | <input type="text"/> |
| <b>RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.</b> |                 |      |           | \$ 1,606.44 | <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>           |                 |      |           | \$ 1,006.44 | <input type="text"/> |

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

**WINE GRAPES, Kentucky 2005**  
**French-American Hybrid & American Varieties**  
 First Full Production Summary (Year 4)

|  | Quantity        | Unit | \$/Unit   | Total       | Your Estimate        |
|--|-----------------|------|-----------|-------------|----------------------|
| <b>GROSS RETURNS</b>                                     |                 |      |           |             |                      |
| Grapes   | 6 tons          |      | \$ 950.00 | \$ 5,700.00 | <input type="text"/> |
| <b>Total Gross Returns</b>                               |                 |      |           | \$ 5,700.00 |                      |
| <b>VARIABLE COSTS</b>                                    |                 |      |           |             |                      |
| <b>PRODUCTION</b>  |                 |      |           |             |                      |
| Herbicide (Spring)                                       | 2 applications  |      | \$ 22.37  | \$ 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.                    | 10 hours        |      | \$ 8.00   |             | <input type="text"/> |
| Hoing  | 24 hours        |      | \$ 8.00   |             | <input type="text"/> |
| <i>Total Hired Labor</i>                                 | 74 hours        |      | \$ 8.00   | \$ 592.00   | <input type="text"/> |
| Variable Machinery Costs                                 | 1 acre          |      | \$ 60.00  | \$ 60.00    | <input type="text"/> |
| <b>TOTAL PREHARVEST COST</b>                             |                 |      |           | \$ 1,555.08 | <input type="text"/> |
| <b>HARVESTING AND MARKETING</b>                          |                 |      |           |             |                      |
| Harvest  | 102 hours       |      | \$ 8.00   | \$ 816.00   | <input type="text"/> |
| Harvest Lugs   | 40 lugs         |      | \$ 4.00   | \$ 160.00   | <input type="text"/> |
| <b>Total Harvest and Marketing Cost</b>                  |                 |      |           | \$ 976.00   | <input type="text"/> |
| Interest (9 months)                                      | 1 acre          |      | \$ 132.88 | \$ 132.88   | <input type="text"/> |
| <b>TOTAL VARIABLE COST</b>                               |                 |      |           | \$ 2,663.96 | <input type="text"/> |
| <b>RETURN ABOVE VARIABLE COSTS</b>                       |                 |      |           | \$ 3,036.04 | <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>                                    |                 |      |           | \$ 2,963.96 | <input type="text"/> |
| <b>RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.</b> |                 |      |           | \$ 2,736.04 | <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>           |                 |      |           | \$ 1,936.04 | <input type="text"/> |

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

**WINE GRAPES, Kentucky 2005**  
**French-American Hybrid & American Varieties**  
 Full Production Summary (Year 5)

|  | Quantity        | Unit | \$/Unit   | Total       | Your Estimate        |
|--|-----------------|------|-----------|-------------|----------------------|
| <b>GROSS RETURNS</b>                                     |                 |      |           |             |                      |
| Grapes   | 6 tons          |      | \$ 950.00 | \$ 5,700.00 | <input type="text"/> |
| <b>Total Gross Returns</b>                               |                 |      |           | \$ 5,700.00 |                      |
| <b>VARIABLE COSTS</b>                                    |                 |      |           |             |                      |
| <b>PRODUCTION</b>  |                 |      |           |             |                      |
| Herbicide (Spring)                                       | 2 applications  |      | \$ 22.37  | \$ 44.73    | <input type="text"/> |
| Herbicide (Spot Spray)                                   | 1.5 quarts      |      | \$ 16.90  | \$ 25.35    | <input type="text"/> |
| Fertilizer   | 300 lbs         |      | \$ 0.10   | \$ 30.00    | <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"/> |
| Hoing  | 24 hours        |      | \$ 8.00   |             | <input type="text"/> |
| <i>Total Hired Labor</i>                                 | 88 hours        |      | \$ 8.00   | \$ 704.00   | <input type="text"/> |
| Variable Machinery Costs                                 | 1 acre          |      | \$ 65.00  | \$ 65.00    | <input type="text"/> |
| <b>TOTAL PREHARVEST COST</b>                             |                 |      |           | \$ 1,662.08 | <input type="text"/> |
| <b>HARVESTING AND MARKETING</b>                          |                 |      |           |             |                      |
| Harvest  | 102 hours       |      | \$ 8.00   | \$ 816.00   | <input type="text"/> |
|  |                 |      |           |             | <input type="text"/> |
| <b>Total Harvest and Marketing Cost</b>                  |                 |      |           | \$ 816.00   | <input type="text"/> |
| Interest (9 months)                                      | 1 acre          |      | \$ 130.10 | \$ 130.10   | <input type="text"/> |
| <b>TOTAL VARIABLE COST</b>                               |                 |      |           | \$ 2,608.18 | <input type="text"/> |
| <b>RETURN ABOVE VARIABLE COSTS</b>                       |                 |      |           | \$ 3,091.82 | <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>                                    |                 |      |           | \$ 2,908.18 | <input type="text"/> |
| <b>RETURN TO OPERATOR LABOR, LAND, CAPITAL, AND MGT.</b> |                 |      |           | \$ 2,791.82 | <input type="text"/> |
| Operator and Unpaid Family Labor                         | 80 hrs          |      | \$ 10.00  | \$ 800.00   | <input type="text"/> |
|  |                 |      |           |             | <input type="text"/> |
| <b>TOTAL OPERATOR AND UNPAID FAMILY LABOR</b>            |                 |      |           | \$ 800.00   | <input type="text"/> |
| <b>RETURN TO LAND, CAPITAL, AND MANAGEMENT</b>           |                 |      |           | \$ 1,991.82 | <input type="text"/> |

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