

Vineyard Reckoning

The **Southern Maryland Vineyard Team** wishes to share the account reckoning of the Southern Maryland research vineyard planted at the Upper Marlboro Research and Education Center. The research vineyard contains 25 viniferous varieties or varietal clones, and 2 hybrids that are used for winemaking. The project goal is to screen for varieties with good fit for the development of a Southern Maryland wine industry. The project has progressed well. The vines were planted on April 4, 2001, and the trellis development has been completed this summer. The vineyard is comprised of 32 vines for each of the 27 varieties, having 8 vines in four randomized replications. The 864 vines are spaced 10' between the rows and 6' within the rows, occupying a total area of 1.19 acres.

The following tables reveal the actual itemized costs for vineyard supplies and labor. A complete breakdown of labor activity and time involved in the accomplishment of tasks gives good insight to the labor investment required.

Vineyard Supply Log

Upper Marlboro REC

March 1, 2001 to August 31, 2002

MATERIAL BURDEN 2001

COST

864 – Grapevines Sub Total 3,072.15



Trellis Materials

| | |
|--|-----------------|
| 180 - 3" x 4" x 8' Treated Posts CCA | 1,035.00 |
| 3 - 10 lb units of 11 GA Galvanized Brace Wire | 26.07 |
| 60 - 4"-5"X10' End Posts Treated CCA | 597.00 |
| 4 - 6"X6"X10' End Posts Treated CCA | 74.76 |
| 4000' - 12.5 gauge aluminum clad wire | 51.00 |
| 1651' - 12.5 gauge aluminum clad wire | 19.81 |
| 5000' - 14 gauge galvanized wire | 434.00 |
| 38 - Tighteners | 70.30 |
| 5 - Packages 100 Sleeves 14-16 gauge | 33.00 |
| 1 - Package 100 Sleeves 12.5 gauge | 9.00 |
| 3 - 10 lb. Galvanized Smooth Wire 11 gauge | 26.07 |
| 1500 - Bamboo Supports | 243.60 |
| 72 - Earth Anchors | 576.00 |
| 2 - Max-Tapeners & Vine Ties | 107.13 |
| 2 - 50 lb Falcon Fescue | 109.90 |
| 1 - 50 lb K 31 Fescue | 49.50 |
| Shipping/Handling | 69.07 |
| Sub Total | 3,531.21 |

Pesticides

| | |
|--------------------------------------|-----------------|
| 2 - Gramoxone Extra 2.5 gal | 159.90 |
| 2 - Surflan 2.5 gal | 459.80 |
| 1 - Devrinol 59 DF - 4 lb. | 36.00 |
| 2 - Captan 5 lb bags | 31.95 |
| 1 - Nova 1 lb bag | 85.00 |
| 5 - Benlate SP 1 lb bag | 89.95 |
| 1 - Nematicur - Nematicide 2.5 gal | 198.00 |
| 1 - Guthion 2.5 gal | 120.00 |
| 2 - Lorsban 4E 2.5 gal | 121.95 |
| 1 - DeFac- Adjuvant Spreader 2.5 gal | 22.50 |
| Sub Total | 1,325.05 |
| Total 2001 | 7,928.41 |

MATERIAL BURDEN 2002

COST

| | |
|--|---------------|
| Trellis Materials | |
| Miscellaneous Irrigation Supply | 69.58 |
| Miscellaneous Irrigation Supply | 58.83 |
| 8 - Brace Wire 10 lb units of 11 gauge | 65.55 |
| Galvanized Nails 60 - 22.5 lbs & 12D - 50 lbs | 56.52 |
| 2000 - Catch Wire Clips & Vine Training Supplies | 190.00 |
| 500 - Crimp Sleeves for Wire | 38.00 |
| 3/16" Chain | 292.50 |
| 10,000' Trickle Tape Roll | 136.00 |
| 40 - Trickle Tape Connectors | 20.40 |
| Sub Total | 927.38 |

Pesticides

| | |
|-------------------------|-----------------|
| PPE Equipment | 315.24 |
| 1 - Captan 50W 5 lb bag | 59.80 |
| 4 - Dithane 12 lb units | 112.00 |
| 1- Thiodan 2.5 gal | 79.90 |
| 1 - Lannate 1 gal | 127.50 |
| 2 - Sevin 4L 2.5 gal | 83.40 |
| 5 - Vendex 1 lb units | 124.75 |
| 1 - Pounce 1 gal | 149.00 |
| Sub Total | 1,051.59 |
| Total 2002 | 1,978.97 |

Grand Total 2001 & 2002 \$9,907.38

VINEYARD LABOR LOG

Upper Marlboro REC

March 1, 2001 to August 31, 2002

LABOR BURDEN 2001 & 2002

MCE Investigators, CMREC Facility Labor and Volunteers

| Task | Hours |
|--------------------------------------|------------|
| Layout of Vineyard Site | 9 |
| Layout Posts and Brace Anchors | 6 |
| Auger Holes | 10 |
| Apply Fertilizer, Lime – At Planting | 3 |
| Vine Planting | 57 |
| Drive Posts | 19 |
| Auger in Anchors | 15 |
| Brace Wire | 18 |
| Cordon Wire | 20 |
| Trickle Irrigation Lines | 14 |
| Bamboo Training Stakes | 7 |
| Herbicide Applications 2001 | 19 |
| Fungicides/Insecticides 2001 | 10 |
| Vine Training/Pruning 2001 | 85 |
| Nematicide | 3 |
| Hoe Weeds | 8 |
| Mowing | 10 |
| Drill Fescue Alleys | 2.5 |
| Fertilizer Lime, Litter 2002 | 4.5 |
| Trickle Irrigation Lines | 40 |
| Herbicide Applications 2002 | 8.5 |
| Fungicides/Insecticides 2002 | 17 |
| Vine Training/Pruning 2002 | 118 |
| Plot Evaluations 2001/2002 | 12 |
| Catch Wire Placement | 70 |
| Hoe Weeds | 26 |
| Mowing, Replant Fescue Alleys | 11.5 |
| Harvest | 10 |
| TOTAL HOURS | 634 |

Total Labor Value – 634 hrs @ \$15.00/hr = \$9,510.00