

Scenario Worksheet

Practice and Scenario Description:

| Information Type | Data |
|---------------------------|---|
| Region | Appalachian |
| State | North Carolina |
| Discipline Group | Forestry |
| Practice Code/Name | 311 - Alley Cropping |
| Scenario ID | 1 |
| Scenario Name | Alley Cropping-single row |
| Scenario Description | The crop or grass land is planted with rows of trees to increase crop diversity. Final row width, and spacing of trees within the row, is based on farm equipment size, growth form of trees, light needs of annual crop or grass, and intent of the landowner. The resource concerns are plant condition - inadequate structure and composition. |
| Before Practice Situation | The landscape has been cropped or in perennial grass for many years. It is void of any perennial tree vegetation. On cropland site preparation needs may need deep ripping to eliminate any plow pan and on grass land competing vegetation control is accomplished prior to tree planting. |
| After Practice Situation | Trees have been established to diversify the crop production of the field. Typically the area planted is 10 acres on approximately 12 x 40 foot spacing. |
| Scenario Feature Measure | planted seedling |
| Scenario Unit | Each |
| Scenario Typical Size | 900 |

Cost Summary:

| Cost Category | Scenario Cost | Scenario Cost/Unit |
|------------------------------------|---------------|--------------------|
| Materials | \$9,108.00 | \$10.12 |
| Equipment/Installation | \$4,935.04 | \$5.48 |
| Labor | \$5,638.80 | \$6.27 |
| Mobilization | \$531.14 | \$0.59 |
| Acquisition of Technical Knowledge | \$0.00 | \$0.00 |
| Foregone Income | \$0.00 | \$0.00 |
| Total | \$20,212.98 | \$22.46 |

Cost Details:

| Cost Category | Component ID | Component Name | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|------------------------|--------------|---|--|------|-----------------|----------|------------|
| Materials | 1532 | Tree, hardwood, seedling or transplant, potted or B&B, 2-3 gal. | Potted or balled and burlapped hardwood tree, 2-3 gal. Materials only. | Each | \$6.68 | 900 | \$6,012.00 |
| Materials | 1571 | Tree shelter, solid tube type, 5" x 48" | 5" x 48" tree tube for protection from animal damage. Materials only. | Each | \$1.93 | 900 | \$1,737.00 |
| Materials | 1575 | Cable ties, plastic | Plastic cable ties (typ. 8-12") to assist in securing items. Materials only. | Each | \$0.07 | 900 | \$63.00 |
| Materials | 1583 | Stakes, wood, 3/4" x 3/4" x 60" | 3/4" x 3/4" x 60" wood stakes to fasten items in place. Materials only. | Each | \$1.44 | 900 | \$1,296.00 |
| Equipment/Installation | 934 | Auger, Post driver attachment | Auger or post driver attachment to a tractor or skidsteer. Does not include power unit. Labor not included. | Hour | \$7.43 | 80 | \$594.40 |
| Equipment/Installation | 939 | Truck, Pickup | Equipment and power unit costs. Labor not included. | Hour | \$26.31 | 4 | \$105.24 |
| Equipment/Installation | 962 | Tractor, agricultural, 120 HP | Agricultural tractor with horsepower range of 90 to 140. Equipment and power unit costs. Labor not included. | Hour | \$47.06 | 90 | \$4,235.40 |
| Labor | 231 | General Labor | Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc. | Hour | \$18.67 | 180 | \$3,360.60 |
| Labor | 232 | Equipment Operators, Light | Includes: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers | Hour | \$19.62 | 80 | \$1,569.60 |
| Labor | 234 | Supervisor or Manager | Labor involving supervision or management activities. Includes crew supervisors, foremen and farm/ranch managers time required for adopting new technology, etc. | Hour | \$35.43 | 20 | \$708.60 |
| Mobilization | 1139 | Mobilization, medium equipment | Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds. | Each | \$92.60 | 1 | \$92.60 |
| Mobilization | 1142 | Mobilization, General labor | Mobilization of general labor: Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc. | Hour | \$18.55 | 6 | \$111.30 |
| Mobilization | 1143 | Mobilization, Light Equipment Operator | Mobilization of light equipment operators: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers | Hour | \$19.43 | 6 | \$116.58 |
| Mobilization | 1145 | Mobilization, Supervisor or Manager | Mobilization of supervisors or management. Includes crew supervisors, foremen and farm/ranch managers, etc. | Hour | \$35.11 | 6 | \$210.66 |