

**Practice:** 311 - Alley Cropping

**Scenario:** #1 - Single row container planting stock

**Scenario Description:** The crop or grass land is planted with rows of container stock 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. Payment includes the trees, tree planting costs and foregone income for the area of land being removed from crop production and put into trees. The resource concerns are plant condition - inadequate structure and composition. Site preparation is not included and must be implemented through associated practice 490 Tree/Shrub Site Preparation.

**Before 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 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. Associated practices may include: 490 Tree/Shrub Site Preparation, 315 Herbaceous Weed Control, 660 Tree/Shrub Pruning, and 484 Mulching

**Scenario Feature Measure:** planted seedling

**Scenario Unit:** Each

**Scenario Typical Size:** 900

**Total Scenario Cost:** \$24,496.20

**Scenario Cost/Unit:** \$27.22

**Cost Details**

Component Name	Id	Description	Unit	Cost	Qty	Total
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**Labor**

Equipment Operators, Light	232	Includes: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers	Hour	\$22.31	80	\$1,785.02
General Labor	231	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	\$23.83	180	\$4,290.00
Supervisor or Manager	234	Labor involving supervision or management activities. Includes crew supervisors, foremen and farm/ranch managers time required for adopting new technology, etc.	Hour	\$38.95	20	\$779.06

**Equipment Installation**

Auger, Post driver attachment	934	Auger or post driver attachment to a tractor or skidsteer. Does not include power unit. Labor not included.	Hour	\$7.46	80	\$596.42
Tractor, agricultural, 120 HP	962	Agricultural tractor with horsepower range of 90 to 140. Equipment and power unit costs. Labor not included.	Hour	\$58.85	90	\$5,296.71
Truck, Pickup	939	Equipment and power unit costs. Labor not included.	Hour	\$22.22	4	\$88.88

**Mobilization**

Mobilization, medium equipment	1139	Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$260.93	1	\$260.93
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**Materials**

Cable ties, plastic	1575	Plastic cable ties (typ. 8-12") to assist in securing items. Materials only.	Each	\$0.05	900	\$43.35
Stakes, wood, 3/4" x 3/4" x 60"	1583	3/4" x 3/4" x 60" wood stakes to fasten items in place. Includes materials only.	Each	\$1.57	900	\$1,416.34
Tree shelter, solid tube type, 5" x 48"	1571	5" x 48" tree tube for protection from animal damage. Materials only.	Each	\$2.11	900	\$1,897.71
Tree, hardwood, seedling or transplant, potted or B&B 2-3 gal.	1532	Potted or balled and burlapped hardwood tree, 2-3 gal. Includes materials and shipping only.	Each	\$7.69	900	\$6,916.71

**Foregone Income**

FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$453.83	1.25	\$567.28
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$446.23	1.25	\$557.79

**Practice:** 311 - Alley Cropping

**Scenario:** #2 - Single row bareroot planting stock

**Scenario Description:** The crop or grass land is planted with rows of bareroot 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. Payment includes the trees, tree planting costs and foregone income for the area of land being removed from crop production and put into trees. The resource concerns are plant condition - inadequate structure and composition. Site preparation is not included and must be implemented through associated practice 490 Tree/Shrub Site Preparation.

**Before 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 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. Associated practices may include: 490 Tree/Shrub Site Preparation, 315 Herbaceous Weed Control, 660 Tree/Shrub Pruning, and 484 Mulching

**Scenario Feature Measure:** planted seedling

**Scenario Unit:** Each

**Scenario Typical Size:** 900

**Total Scenario Cost:** \$1,901.53

**Scenario Cost/Unit:** \$2.11

**Cost Details**

Component Name	Id	Description	Unit	Cost	Qty	Total
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**Labor**

Equipment Operators, Light	232	Includes: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers	Hour	\$22.31	1.25	\$27.89
General Labor	231	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	\$23.83	1.25	\$29.79
Supervisor or Manager	234	Labor involving supervision or management activities. Includes crew supervisors, foremen and farm/ranch managers time required for adopting new technology, etc.	Hour	\$38.95	1.25	\$48.69

**Equipment Installation**

Mechanical tree planter	1600	Mechanical tree planter. Requires a pulling unit of either tractor or small dozer depending upon site conditions. Does not include labor.	Hour	\$6.84	1.25	\$8.55
Tractor, agricultural, 60 HP	963	Agricultural tractor with horsepower range of 50 to 90. Equipment and power unit costs. Labor not included.	Hour	\$25.27	1.25	\$31.59
Truck, Pickup	939	Equipment and power unit costs. Labor not included.	Hour	\$22.22	1.25	\$27.78

**Mobilization**

Mobilization, medium equipment	1139	Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$260.93	1	\$260.93
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**Materials**

Tree, hardwood, seedling or transplant, bare root, 6-18"	1509	Bare root hardwood trees 6-18" tall. Includes materials and shipping only.	Each	\$0.38	900	\$341.25
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**Foregone Income**

FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$453.83	1.25	\$567.28
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$446.23	1.25	\$557.79