

Practice: 612 - Tree & Shrub Establishment

Scenario # 1 Direct Seeding

Scenario Description:

Missouri

This practice involves planting of tree and shrubs through direct seeding after the site has been prepared for seedling growth and establishment. Planting rate will be approximately 3000 seed per acre. The productivity of the site is good and will handle a medium density planting rate. The resource concerns addressed is degraded plant condition -- undesirable plant productivity and health, and inadequate structure and composition and degraded wildlife habitat. Payment includes tree seed and equipment and labor to seed. Site preparation is implemented through associated practice 490 Tree/Shrub Site Preparation. Additional associated practices may include: 315 Herbaceous Weed Control, 660 Tree/Shrub Pruning, 484 Mulching

Before Practice Situation:

The land has a little or no tree cover, or is stocked with the wrong tree species. Competing vegetation is a before and after planting concern. Soil condition is degraded due to the loss of the native forest ecosystem (organic matter in top soil depleted). Native wildlife habitat is lacking. The main resource concern is degraded plant condition and inadequate structure and composition

After Practice Situation:

Seed from native species are collected or purchased and planted at prescribed rates. 5 acres of land is established with permanent tree cover that will improve degraded plant condition, reduce soil erosion, establish wildlife habitat, sequester carbon and reduce invasive species presence. Establishing forest vegetation also creates corridors for wildlife movement.

Scenario Feature Measure:

Area of Treatment

Scenario Typical Size:	5	Acre	Tot Unit Cost	\$379.78
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Trees and shrubs, seed	150	Pound	\$3.11	\$466.50
Equip./Install.	Mechanical nut planter	8	Hour	\$9.85	\$78.80
Equip./Install.	Truck, Pickup	8	Hour	\$27.28	\$218.24
Equip./Install.	Tractor, agricultural, 60 HP	8	Hour	\$19.28	\$154.24
Labor	Supervisor or Manager	8	Hour	\$37.21	\$297.68
Labor	Equipment Operators, Light	8	Hour	\$20.92	\$167.36
Mobilization	Mobilization, Light Equipment Operator	2	Hour	\$20.73	\$41.46
Mobilization	Mobilization, medium equipment	2	Each	\$200.43	\$400.86
Mobilization	Mobilization, Supervisor or Manager	2	Hour	\$36.87	\$73.74

Total Cost: \$1,898.88

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$284.83	EQIP-HU	\$341.80
WHIP	\$284.83	WHIP-HU	\$341.80
EQIP-NOI	\$284.83	EQIP-HUNOI	\$341.80
EQIP-CCPI	\$284.83	EQIP-HUCCPI	\$341.80
EQIP-MRBI	\$284.83	EQIP-HUMRBI	\$341.80
WHIP-MRBI	\$284.83	WHIP-HUMRBI	\$341.80

Practice: 612 - Tree & Shrub Establishment**Scenario # 2 Bareroot Tress and Shrubs, Each**

Missouri

Scenario Description:

Bare-root trees and/or shrubs to be planted or interplanted to establish woody plants in any area where they can be grown for wildlife, erosion control, water quality improvement, carbon sequestration, forest products, and aesthetics. Resource concerns addressed are degraded plant condition -- undesirable plant productivity and health, and inadequate structure and composition and degraded wildlife habitat. Payment includes bare-root seedlings and equipment and labor to plant. Foregone income is not included with this scenario since, if applicable, it most likely would be covered by an assoicated practice (such as 311 Alley Cropping, 380 Windbreak/Shelterbest Establishment, 391 Riparian Forest Buffer, or 422 Hedgerow Planting). Site preparation is implemented through associated practice 490 Tree/Shrub Site Preparation. Additional associated practices may include: 315 Herbaceous Weed Control, 660 Tree/Shrub Pruning, 484 Mulching.

Before Practice Situation:

The land has little/no tree cover, is understocked, or is stocked with the wrong tree species. Competing vegetation is a before and after planting concern. Soil condition is degraded due to the loss of the native forest ecosystem (organic matter in top soil depleted). The main resource concerns are degraded plant condition and inadequate structure and composition

After Practice Situation:

The land is established with permanent tree cover that will improve degraded plant condition, reduce soil erosion, establish wildlife habitat, sequester carbon and reduce invasive species presence. Establishing forest vegetation also creates corridors for wildlife movement.

Scenario Feature Measure:

Area of Treatment

Scenario Typical Size:

4360

Each

Tot Unit Cost

\$0.83

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Tree, hardwood, seedling or transplant, bare	4360	Each	\$0.62	\$2,703.20
Equip./Install.	Truck, Pickup	4	Hour	\$27.28	\$109.12
Equip./Install.	Tractor, agricultural, 60 HP	4	Hour	\$19.28	\$77.12
Equip./Install.	Mechanical tree planter	4	Hour	\$4.38	\$17.52
Equip./Install.	Trailer, enclosed, small	4	Hour	\$3.61	\$14.44
Labor	Supervisor or Manager	4	Hour	\$37.21	\$148.84
Labor	Equipment Operators, Light	4	Hour	\$20.92	\$83.68
Labor	General Labor	4	Hour	\$21.56	\$86.24
Mobilization	Mobilization, General labor	2	Hour	\$21.81	\$43.62
Mobilization	Mobilization, small equipment	2	Each	\$136.80	\$273.60
Mobilization	Mobilization, Supervisor or Manager	2	Hour	\$36.87	\$73.74
Forgone Income	FI, Soybeans Dryland	0	Acre	\$385.53	\$0.00
Forgone Income	FI, Corn Dryland	0	Acre	\$392.59	\$0.00

Payment types:

Total Cost: \$3,631.12

<u>PayType</u>	<u>Unit Payment</u>	<u>PayType</u>	<u>Unit Payment</u>
EQIP	\$0.62	EQIP-HU	\$0.75
WHIP	\$0.62	WHIP-HU	\$0.75
EQIP-NOI	\$0.62	EQIP-HUNOI	\$0.75
EQIP-CCPI	\$0.62	EQIP-HUCCPI	\$0.75
EQIP-MRBI	\$0.62	EQIP-HUMRBI	\$0.75
WHIP-MRBI	\$0.62	WHIP-HUMRBI	\$0.75
EQIP-NOFEI	\$0.62	EQIP-HUNOFEI	\$0.75

Practice: 612 - Tree & Shrub Establishment

Scenario # 3 Container Tress and Shrubs

Missouri

Scenario Description:

Containerized trees and/or shrubs (potted) to be planted or interplanted to establish woody plants in any area where they can be grown for wildlife, erosion control, water quality improvement, carbon sequestration, forest products, and aesthetics. Resource concerns are degraded plant condition - undesirable productivity and health, and Inadequate structure and composition; inadequate habitat for fish and wildlife. Payment includes 3 gallon containerized plants and equipment and labor to plant. Foregone income is not included with this scenario since, if applicable, it most likely would be covered by an assoicated practice (such as 311 Alley Cropping, 380 Windbreak/Shelterbest Establishment, 391 Riparian Forest Buffer, or 422 Hedgerow Planting). Site preparation is implemented through associated practice 490 Tree/Shrub Site Preparation. Additional associated practices may include: 315 Herbaceous Weed Control, 660 Tree/Shrub Pruning, 484 Mulching.

Before Practice Situation:

The land has little/no tree cover, is understocked, or is stocked with the wrong tree species. Competing vegetation is a before and after planting concern. Soil condition is degraded due to the loss of the native forest ecosystem (organic matter in top soil depleted). The main resource concerns are degraded plant condition and inadequate structure and composition

After Practice Situation:

The land is established with permanent tree cover that will improve degraded plant condition, reduce soil erosion, establish wildlife habitat, sequester carbon and reduce invasive species presence. Establishing forest vegetation also creates corridors for wildlife movement.

Scenario Feature Measure:

Area of Treatment

Scenario Typical Size:	100	Each	Tot Unit Cost	\$11.95
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Tree, hardwood, seedling or transplant, potted	100	Each	\$6.68	\$668.00
Equip./Install.	Hand tools, tree planting	6	Hour	\$9.44	\$56.64
Labor	Supervisor or Manager	6	Hour	\$37.21	\$223.26
Labor	General Labor	6	Hour	\$21.56	\$129.36
Mobilization	Mobilization, General labor	2	Hour	\$21.81	\$43.62
Mobilization	Mobilization, Supervisor or Manager	2	Hour	\$36.87	\$73.74

Total Cost: \$1,194.62

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$8.96	EQIP-HU	\$10.75
WHIP	\$8.96	WHIP-HU	\$10.75
EQIP-NOI	\$8.96	EQIP-HUNOI	\$10.75
EQIP-CCPI	\$8.96	EQIP-HUCCPI	\$10.75
EQIP-MRBI	\$8.96	EQIP-HUMRBI	\$10.75
WHIP-MRBI	\$8.96	WHIP-HUMRBI	\$10.75
EQIP-NOFEI	\$8.96	EQIP-HUNOFEI	\$10.75