

Scenario Worksheet

Practice and Scenario Description:

Information Type	Data
Region	Mid Atlantic
State	New Jersey
Discipline Group	Forestry
Practice Code/Name	612 - Tree & Shrub Establishment
Scenario ID	1
Scenario Name	Individual tree - hand planting w/browse protection

Scenario Description
 Tree seedlings will be hand planted in the forested area where few or no forest trees growing, the existing stand of trees needs underplanting, or the previously planted seedling tree stocking level is below desirable conditions. Seedlings are protected from wildlife browsing. Wildlife habitat is degraded by loss of forest conditions. This resource concern addressed is degraded plant condition -- and inadequate structure and composition, and inadequate wildlife & fish habitat.
 Associated Practices: Mulching (484), Tree & Shrub Site Preparation (490)

Before Practice Situation
 The stocking level does not meet the minimum recommended number of trees per acre and does not meet the landowners objectives. To be a viable forest additional seedlings need planting. Wildlife habitat is rated poor. Wildlife are known to browse tree seedlings in the area causing great damage.

After Practice Situation
 The prescribed number of trees are hand planted, and the objectives of the landowner are met. Seedlings are protected from wildlife browsing by installing some type of protection devise. A forest will provide wildlife habitat, provide a long term ground and capture atmospheric carbon.

Scenario Feature Measure	Each Planted Seedling
Scenario Unit	Each
Scenario Typical Size	6000

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$15,528.00	\$2.59
Equipment/Installation	\$671.04	\$0.11
Labor	\$3,256.48	\$0.54
Mobilization	\$365.44	\$0.06
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$19,820.96	\$3.30

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Discipline Group	Forestry
Practice Code/Name	612 - Tree & Shrub Establishment
Scenario ID	2
Scenario Name	Individual tree - hand planting
Scenario Description	Tree seedlings will be hand planted in the forested area where few or no forest trees are growing, the existing stand of trees needs underplanting, or the previously planted seedling tree stocking level is below desirable conditions. Wildlife habitat is degraded by loss of forest conditions. This resource concern addressed is degraded plant condition -- and inadequate structure and composition, and inadequate wildlife & fish habitat. Associated Practices: Mulching (484), Tree & Shrub Site Preparation (490)
Before Practice Situation	The stocking level of the forest does not meet the minimum recommended number of trees per acre. The existing condition of the forest stand does not meet the landowners objectives. To be a viable forest additional seedlings need planting. Wildlife habitat is rated poor.
After Practice Situation	The prescribed number of trees are hand planted on 20 acres, and the objectives of the landowner are met. The forest will provide wildlife habitat, provide a long term ground cover, and capture atmospheric carbon.
Scenario Feature Measure	Area Planted
Scenario Unit	Each
Scenario Typical Size	6000

Cost Summary:		
Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$3,360.00	\$0.56
Equipment/Installation	\$775.68	\$0.13
Labor	\$2,728.48	\$0.45
Mobilization	\$232.72	\$0.04
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$7,096.88	\$1.18

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Practice and Scenario Description:

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Region	Mid Atlantic
State	New Jersey
Discipline Group	Forestry
Practice Code/Name	612 - Tree & Shrub Establishment
Scenario ID	3
Scenario Name	Shrub Planting

Scenario Description	<p>Shrubs are planted to provide a more diverse habitat. Plantings are in either uplands or bottomlands. The site lacks ground level habitat structure and diversity for wildlife. Resource concern is inadequate habitat for fish and wildlife - habitat fragmentation.</p> <p>Associated Practices: Mulching (484), Tree & Shrub Site Preparation (490)</p>
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Before Practice Situation	<p>No shrubby vegetation, or very little, is present under the forest overstory. Wildlife species that need shrub cover are not present. An adequate stand of overstory trees is present, but it is a single level, not multi-level.</p>
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After Practice Situation	<p>A 5 acre area is planted with shrubs. Shrubs are not planted over the entire 10 acres. They are planted in groups or motts. The motts, more or less circular in shape, are 50 feet in diameter, with 50 shrubs planted within each mott. 4 motts are planted per acre for a total of 200 shrubs per acre. Motts are randomly established to take advantage of site conditions and shrub species being planted.</p>
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Scenario Feature Measure	Area of Treatment
Scenario Unit	Acre
Scenario Typical Size	5

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$700.00	\$140.00
Equipment/Installation	\$312.48	\$62.50
Labor	\$1,628.24	\$325.65
Mobilization	\$232.72	\$46.54
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$2,873.44	\$574.69

Scenario Worksheet

Practice and Scenario Description:	
Information Type	Data
Region	Mid Atlantic
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Discipline Group	Forestry
Practice Code/Name	612 - Tree & Shrub Establishment
Scenario ID	8
Scenario Name	Hardwood Planting 1-3gal pots

Scenario Description

Hardwood seedlings (potted) to be planted to reestablish an upland hardwood forest. Planting will be by hand. The resource setting is an area that historically was an upland hardwood forest. Resource concerns are degrade plant condition - undesirable productivity and health, and Inadequate structure and composition; inadequate habitat for fish and wildlife.

Associated Practices: [Mulching \(484\)](#), [Tree & Shrub Site Preparation \(490\)](#)

Before Practice Situation

The native forest that has been removed and the land is either row cropped, grazed or hayed or brushy forest. If any upland trees exist they are poor quality tree or undesirable species. Terrain is gently to moderately sloping with soil erosion-sheet and rill occurring.

After Practice Situation

The area of treatment is 5 acres. Potted/containerized hardwood seedlings are planted by hand. Post vegetation control should be evaluated and conducted if necessary.

Scenario Feature Measure	Area of Treatment
Scenario Unit	Acre
Scenario Typical Size	5

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$11,430.00	\$2,286.00
Equipment/Installation	\$628.96	\$125.79
Labor	\$1,516.44	\$303.29
Mobilization	\$1,025.60	\$205.12
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$14,601.00	\$2,920.20

