

**Scenario Worksheet**

**Practice and Scenario Description:**

Information Type	Data
Region	Mid Atlantic
State	New Jersey
Discipline Group	Range/Pasture Grazing
Practice Code/Name	314 - Brush Management
Scenario ID	1
Scenario Name	Grazing by Livestock
Scenario Description	Management of woody non-herbaceous plant species through the use of livestock that are closely herded to concentrate grazing on targeted shrubs. Typical area is moderate rolling to gentle sloping, moderately deep to deep soils that have dense stands of woody non-herbaceous species that exceed the desirable ecological site condition. This scenario is an alternative for organic producers. Associated Practices: Early Successional Habitat Development and Management (647), Restoration of Rare and Declining Habitats (643), Shallow
Before Practice Situation	Area consist of dense stands of woody non-herbaceous species that exceed the desirable ecological site condition degrading forage quality, promoting noxious and invasive species, increasing risk of soil erosion and degrading wildlife habitat.
After Practice Situation	Woody species are grazed to limit the regrowth of shrubs and achieve a desirable plant community based on species composition, structure, density, and canopy cover or height. Ecological site condition is progressing in an upward trend, hydrology and plant health and vigor is returning to near normal levels.
Scenario Feature Measure	Acres treated
Scenario Unit	Acre
Scenario Typical Size	5

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$1,500.00	\$300.00
Equipment/Installation	\$85.80	\$17.16
Labor	\$0.00	\$0.00
Mobilization	\$0.00	\$0.00
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$1,585.80	\$317.16



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**Practice and Scenario Description:**

Information Type	Data
Region	Mid Atlantic
State	New Jersey
Discipline Group	Range/Pasture Grazing
Practice Code/Name	314 - Brush Management
Scenario ID	2
Scenario Name	

Scenario Description  
 Using hand tools, such as axes, shovels, hoes, nippers, brush pullers, and including chainsaws to remove or cut off woody plants at or below the root collar. Typical area is moderate rolling to gentle sloping, moderately deep to deep soils that have stands of woody and non herbaceous species that are in the early phases of invasions. Typical unit is 10 acres.  
 Associated Practices: Early Successional Habitat Development and Management (647), Restoration of Rare and Declining Habitats (643), Shallow

Before Practice Situation  
 Area is in the very early phases of woody non herbaceous species encroachment that degrades habitat for desired wildlife species. Future degradation of key forage species and ecological site condition promoting noxious and invasive species and increased soil erosion if woody species are allowed to expand.

After Practice Situation  
 Woody species are removed to achieve the desirable plant community based on species composition, structure, density, and canopy cover or height. Ecological site condition continues to progressing in an upward trend, hydrology and plant health and vigor are sustained.

Scenario Feature Measure	Acres treated
Scenario Unit	Acre
Scenario Typical Size	10

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$0.00	\$0.00
Equipment/Installation	\$677.32	\$67.73
Labor	\$1,625.50	\$162.55
Mobilization	\$221.71	\$22.17
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$2,524.53	\$252.45



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**Practice and Scenario Description:**

Information Type	Data
Region	Mid Atlantic
State	New Jersey
Discipline Group	Range/Pasture Grazing
Practice Code/Name	314 - Brush Management
Scenario ID	4

Scenario Name  
[Mechanical, Small Shrubs, Medium Infestation](#)

Scenario Description  
 Removal of small woody vegetation of medium infestations on gentle sloping to moderately deep to deep soils. The practice entails the removal of brush by the use of mechanical cutter, chopper or other light equipment in order to reduce fuel loading and improve ecological site condition. Brush density has exceeded desired levels based on ecological site potential. It has been determined that the brush is at the medium infestation. Typical unit is 10 acres.

Before Practice Situation  
 Area consist of excessive stands of shrub species degrading health and vigor of native herbaceous species promoting noxious and invasive species and degrading wildlife habitat.

After Practice Situation  
 Woody species are removed to achieve the desirable plant community based on species composition, structure, density, and canopy cover or height. Ecological site condition is progressing in an upward trend, hydrology and plant health and vigor is returning to near normal levels, and improved wildlife habitat.

Scenario Feature Measure	<a href="#">Acres planned</a>
Scenario Unit	<a href="#">Acre</a>
Scenario Typical Size	<a href="#">10</a>

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$0.00	\$0.00
Equipment/Installation	\$717.03	\$71.70
Labor	\$334.35	\$33.44
Mobilization	\$390.26	\$39.03
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$1,441.64	\$144.16



**Scenario Worksheet**

**Practice and Scenario Description:**

Information Type	Data
Region	Mid Atlantic
State	New Jersey
Discipline Group	Range/Pasture Grazing
Practice Code/Name	314 - Brush Management
Scenario ID	5

Scenario Name  
[Mechanical, Small Shrubs, Heavy Infestation](#)

Scenario Description  
 Removal of small woody vegetation of heavy infestations on gentle sloping to moderately deep to deep soils. The practice entails the removal of brush by the use of mechanical cutter, chopper or other light equipment in order to reduce fuel loading and improve ecological site condition. Brush density has exceeded desired levels based on ecological site potential. It has been determined that the brush is at the heavy infestation. Typical unit 10 acres.

Before Practice Situation  
 Area consist of excessive stands of shrub species degrading health and vigor of native herbaceous species promoting noxious and invasive species and degrading wildlife habitat.

After Practice Situation  
 Woody species are removed to achieve the desirable plant community based on species composition, structure, density, and canopy cover or height. Ecological site condition is progressing in an upward trend, hydrology and plant health and vigor is returning to near normal levels, and improved wildlife habitat.

Scenario Feature Measure	<a href="#">Acres planned</a>
Scenario Unit	<a href="#">Acre</a>
Scenario Typical Size	<a href="#">10</a>

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$0.00	\$0.00
Equipment/Installation	\$956.04	\$95.60
Labor	\$445.80	\$44.58
Mobilization	\$390.26	\$39.03
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$1,792.10	\$179.21



**Scenario Worksheet**

**Practice and Scenario Description:**

Information Type	Data
Region	Mid Atlantic
State	New Jersey
Discipline Group	Range/Pasture Grazing
Practice Code/Name	314 - Brush Management
Scenario ID	7
Scenario Name	

**Scenario Description**  
 Removal of large woody vegetation of medium infestations on gentle sloping to moderately deep to deep soils. The practice entails the removal of brush by pushing, grubbing, masticating, chaining and then raking or piling in order to reduce fuel loading and improve ecological site condition. Brush density has exceeded desired levels based on ecological site potential. It has been determined that the brush is at the medium infestation. Typical unit is 10 acres.

**Before Practice Situation**  
 Area consist of excessive stands of shrub species degrading health and vigor of native herbaceous species promoting noxious and invasive species and degrading wildlife habitat.

**After Practice Situation**  
 Woody species are removed to achieve the desirable plant community based on species composition, structure, density, and canopy cover or height. Ecological site condition is progressing in an upward trend, hydrology and plant health and vigor is returning to near normal levels, and improved wildlife habitat.

Scenario Feature Measure	Acres planned
Scenario Unit	Acre
Scenario Typical Size	10

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$0.00	\$0.00
Equipment/Installation	\$3,670.20	\$367.02
Labor	\$1,132.80	\$113.28
Mobilization	\$571.80	\$57.18
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$5,374.80	\$537.48



**Scenario Worksheet**

**Practice and Scenario Description:**

Information Type	Data
Region	Mid Atlantic
State	New Jersey
Discipline Group	Range/Pasture Grazing
Practice Code/Name	314 - Brush Management
Scenario ID	8
Scenario Name	Mechanical, Large Shrubs, Heavy Infestation
Scenario Description	Removal of large woody vegetation of heavy infestations on gentle sloping to moderately deep to deep soils. The practice entails the removal of brush by pushing, grubbing, masticating, chaining then raking or piling in order to reduce fuel loading and improve ecological site condition. Brush density has exceeded desired levels based on ecological site potential. It has been determined that the brush is at the heavy infestation. Typical unit is 10 acres.
Before Practice Situation	Area consist of excessive stands of shrub species degrading health and vigor of native herbaceous species promoting noxious and invasive species and degrading wildlife habitat.
After Practice Situation	Woody species are removed to achieve the desirable plant community based on species composition, structure, density, and canopy cover or height. Ecological site condition is progressing in an upward trend, hydrology and plant health and vigor is returning to near normal levels, and improved wildlife habitat.
Scenario Feature Measure	Acres planned
Scenario Unit	Acre
Scenario Typical Size	10

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$0.00	\$0.00
Equipment/Installation	\$4,876.16	\$487.62
Labor	\$1,510.40	\$151.04
Mobilization	\$571.80	\$57.18
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$6,958.36	\$695.84



**Scenario Worksheet**

**Practice and Scenario Description:**

Information Type	Data
Region	Mid Atlantic
State	New Jersey
Discipline Group	Range/Pasture Grazing
Practice Code/Name	314 - Brush Management
Scenario ID	10

Scenario Name  
[Mechanical & Chemical, Small Shrubs, Medium Infestation](#)

Scenario Description  
 Removal of small woody vegetation of medium infestations on gentle sloping to moderately deep to deep soils. The practice entails the removal of brush by the use of mechanical cutter, chopper or other light equipment followed by an application of low cost chemicals in low volumes of material in order to reduce fuel loading and improve ecological site condition. Brush density has exceeded desired levels based on ecological site potential. It has been determined that the brush is at the medium infestation rate. Typical unit is 10 acres.

Before Practice Situation  
 Area consist of excessive stands of shrub species degrading health and vigor of native herbaceous species promoting noxious and invasive species and degrading wildlife habitat.

After Practice Situation  
 Woody species are removed to achieve the desirable plant community based on species composition, structure, density, and canopy cover or height. Ecological site condition is progressing in an upward trend, hydrology and plant health and vigor is returning to near normal levels, and improved wildlife habitat.

Scenario Feature Measure	<a href="#">Acres planned</a>
Scenario Unit	<a href="#">Acre</a>
Scenario Typical Size	<a href="#">10</a>

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$110.40	\$11.04
Equipment/Installation	\$2,047.28	\$204.73
Labor	\$445.80	\$44.58
Mobilization	\$430.88	\$43.09
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$3,034.36	\$303.44

