

Practice: 314 - Brush Management

Scenario: #1 - Light Brush Management

Scenario Description: Light brush management is used on non-cropland acres (including forestland, pasture, and wildlife areas) where less than 10% canopy cover across the treatment area is in undesirable non-herbaceous cover, and the treatment area is less than 18% slope on average. Payment is based on impacted acres only. Treatment may consist of chemical, mechanical, manual, or a combination of methods. Cost represents typical situations for conventional, organic, and transitioning to organic producers. For organic land, chemical applications must be OMRI approved chemicals.

Before Situation: Non-cropland acres consisting of a percentage of undesirable species such as (but not limited to) Amur cork tree, Siberian elm, callery pear, autumn olive, multiflora rose, barberry, burning bush, honeysuckle, or periwinkle that must be controlled. Undesirable species can contribute to degraded plant condition, inadequate feed &forage, and potential animal health issues.

After Situation: Undesireable non-herbaceous species are controlled with a pass with a brush hog over the treatment area followed by spot chemical treatment. The treatment area is mechanically treated early in the growing season to reduce above ground biomass. The treated plants will readily resprout, and after adequate re-sprouting occurs herbicide will be applied to the new growth. This combined treatment will allow better access for the herbicide application equipment, better coverage on target plants, and less overall herbicide applied.

Scenario Feature Measure: Acres treated

Scenario Unit: Acre

Scenario Typical Size: 25

Total Scenario Cost: \$1,215.57

Scenario Cost/Unit: \$48.62

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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Labor

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	8	\$190.67
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Materials

Herbicide, Triclopyr	338	Refer to WIN-PST for product names and active ingredients. Materials and shipping	Acre	\$42.30	2.5	\$105.75
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Equipment Installation

Chemical, spot treatment, single stem application	964	Ground applied chemical to individual plants or group of plants, e.g., backpack sprayer treatment. Equipment and labor cost included.	Hour	\$60.62	8	\$485.00
Mower, Bush Hog	940	Equipment and power unit costs. Labor not included.	Hour	\$52.94	6	\$317.67
Truck, Pickup	939	Equipment and power unit costs. Labor not included.	Hour	\$22.22	2	\$44.44

Mobilization

Mobilization, very small equipment	1137	Equipment that is small enough to be transported by a pick-up truck with typical weights less than 3,500 pounds. Can be multiple pieces of equipment if all hauled simultaneously.	Each	\$72.05	1	\$72.05
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Scenario: #2 - Medium Brush Management

Scenario Description: Medium brush management is used on non-cropland acres (including forestland, pasture, and wildlife areas) where 10% - 39% canopy cover across the treatment area is in undesirable non-herbaceous cover, and the treatment area is less than 18% slope on average. Payment is based on impacted acres only. Treatment may consist of chemical, mechanical, manual, or a combination of methods. Cost represents typical situations for conventional, organic, and transitioning to organic producers. For organic land, chemical applications must be OMRI approved chemicals.

Before Situation: Non-cropland acres consisting of a percentage of undesirable species such as (but not limited to) Amur cork tree, Siberian elm, callery pear, autumn olive, multiflora rose, barberry, burning bush, honeysuckle, or periwinkle that must be controlled. Undesirable species can contribute to degraded plant condition, inadequate feed &forage, and potential animal health issues.

After Situation: Undesireable non-herbaceous species are controlled with a pass with a brush hog over the treatment area followed by spot chemical treatment. The treatment area is mechanically treated early in the growing season to reduce above ground biomass. The treated plants will readily resprout, and after adequate re-sprouting occurs herbicide will be applied to the new growth. This combined treatment will allow better access for the herbicide application equipment, better coverage on target plants, and less overall herbicide applied.

Scenario Feature Measure: Acres planned

Scenario Unit: Acre

Scenario Typical Size: 25

Total Scenario Cost: \$2,008.98

Scenario Cost/Unit: \$80.36

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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Labor

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	14	\$333.67
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Materials

Herbicide, Triclopyr	338	Refer to WIN-PST for product names and active ingredients. Materials and shipping	Acre	\$42.30	7.5	\$317.24
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Equipment Installation

Chemical, spot treatment, single stem application	964	Ground applied chemical to individual plants or group of plants, e.g., backpack sprayer treatment. Equipment and labor cost included.	Hour	\$60.62	10	\$606.25
Mower, Bush Hog	940	Equipment and power unit costs. Labor not included.	Hour	\$52.94	12	\$635.33
Truck, Pickup	939	Equipment and power unit costs. Labor not included.	Hour	\$22.22	2	\$44.44

Mobilization

Mobilization, very small equipment	1137	Equipment that is small enough to be transported by a pick-up truck with typical weights less than 3,500 pounds. Can be multiple pieces of equipment if all hauled simultaneously.	Each	\$72.05	1	\$72.05
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Scenario: #3 - High Brush Management

Scenario Description: High brush management is used on non-cropland acres (including forestland, pasture, and wildlife areas) where 40%-60% canopy cover across the treatment area is in undesirable non-herbaceous cover, or the treatment area is on land with 18% - 25% slopes on average regardless of percent cover of undesirable species. Payment is based on impacted acres only. Treatment may consist of chemical, mechanical, manual, or a combination of methods. Cost represents typical situations for conventional, organic, and transitioning to organic producers. For organic land, chemical applications must be OMRI approved chemicals.

Before Situation: Non-cropland acres consisting of a percentage of undesirable species such as (but not limited to) Tree of heaven, Paulownia (princess tree), honeysuckle, Japanese knotweed, privet, or wintercreeper, that must be controlled. Undesirable species can contribute to degraded plant condition, inadequate feed & forage, and potential animal health issues.

After Situation: Undesirable non-herbaceous species are controlled with a combination of manual chainsawing, pass with a brush hog over the treatment area, and spot chemical treatment. The treatment area is mechanically treated early in the growing season to reduce above ground biomass. The treated plants will readily resprout, and after adequate re-sprouting occurs herbicide will be applied to the new growth. This combined treatment will allow better access for the herbicide application equipment, better coverage on target plants, and less overall herbicide applied.

Scenario Feature Measure: Acres planned

Scenario Unit: Acre

Scenario Typical Size: 25

Total Scenario Cost: \$4,849.66

Scenario Cost/Unit: \$193.99

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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Labor

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	65	\$1,549.17
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Materials

Herbicide, Triclopyr	338	Refer to WIN-PST for product names and active ingredients. Materials and shipping	Acre	\$42.30	15	\$634.48
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Equipment Installation

Chainsaw	937	Equipment and power unit costs. Labor not included.	Hour	\$4.45	8	\$35.64
Chemical, spot treatment, single stem application	964	Ground applied chemical to individual plants or group of plants, e.g., backpack sprayer treatment. Equipment and labor cost included.	Hour	\$60.62	24	\$1,454.99
Mower, Bush Hog	940	Equipment and power unit costs. Labor not included.	Hour	\$52.94	20	\$1,058.89
Truck, Pickup	939	Equipment and power unit costs. Labor not included.	Hour	\$22.22	2	\$44.44

Mobilization

Mobilization, very small equipment	1137	Equipment that is small enough to be transported by a pick-up truck with typical weights less than 3,500 pounds. Can be multiple pieces of equipment if all hauled simultaneously.	Each	\$72.05	1	\$72.05
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Scenario: #4 - Very High Brush Management

Scenario Description: High brush management is used on non-cropland acres (including forestland, pasture, and wildlife areas) where greater than 60% canopy cover across the treatment area is in undesirable non-herbaceous cover, or the treatment area is on land with greater than 25% slopes on average regardless of percent cover of undesirable species. Payment is based on impacted acres only. Treatment may consist of chemical, mechanical, manual, or a combination of methods. Cost represents typical situations for conventional, organic, and transitioning to organic producers. For organic land, chemical applications must be OMRI approved chemicals.

Before Situation: Non-cropland acres consisting of a percentage of undesirable species such as (but not limited to) Tree of heaven, Paulownia (princess tree), honeysuckle, Japanese knotweed, privet, or wintercreeper, that must be controlled. Undesirable species can contribute to degraded plant condition, inadequate feed & forage, and potential animal health issues.

After Situation: Undesirable non-herbaceous species are controlled with a combination of manual chainsawing, pass with a brush hog over the treatment area, and spot chemical treatment. The treatment area is mechanically treated early in the growing season to reduce above ground biomass. The treated plants will readily resprout, and after adequate re-sprouting occurs herbicide will be applied to the new growth. This combined treatment will allow better access for the herbicide application equipment, better coverage on target plants, and less overall herbicide applied.

Scenario Feature Measure: Acres planned

Scenario Unit: Acre

Scenario Typical Size: 25

Total Scenario Cost: \$7,903.15

Scenario Cost/Unit: \$316.13

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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Labor

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	88	\$2,097.33
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Materials

Herbicide, Triclopyr	338	Refer to WIN-PST for product names and active ingredients. Materials and shipping	Acre	\$42.30	25	\$1,057.47
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Equipment Installation

Chainsaw	937	Equipment and power unit costs. Labor not included.	Hour	\$4.45	20	\$89.09
Chemical, spot treatment, single stem application	964	Ground applied chemical to individual plants or group of plants, e.g., backpack sprayer treatment. Equipment and labor cost included.	Hour	\$60.62	40	\$2,424.99
Mower, Bush Hog	940	Equipment and power unit costs. Labor not included.	Hour	\$52.94	40	\$2,117.78
Truck, Pickup	939	Equipment and power unit costs. Labor not included.	Hour	\$22.22	2	\$44.44

Mobilization

Mobilization, very small equipment	1137	Equipment that is small enough to be transported by a pick-up truck with typical weights less than 3,500 pounds. Can be multiple pieces of equipment if all hauled simultaneously.	Each	\$72.05	1	\$72.05
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Scenario: #6 - Glade/Savanna Restoration

Scenario Description: Removing or reducing woody plant canopy and utilizing chemical treatment (except for non-sprouting woody species) to promote herbaceous growth to restore and manage glades/savannas. Facilitating practices may include but not limited to: Early Successional Habitat Management/Development (647), Prescribed Burning (338), Restoration and Management of Rare and Declining Habitats (643), and Conservation Cover (327).

Before Situation: The understory has a minimal amount of herbaceous and early woody successional vegetation. Wildlife food, cover, and shelter are lacking, and woody cover control is needed to manage for associated wildlife species that benefit from habitats such as glades/savannas.

After Situation: The glade/savanna habitat is restored and flora and fauna that depend on the glade/savanna habitat flourish.

Scenario Feature Measure: area of opening

Scenario Unit: Acre

Scenario Typical Size: 2

Total Scenario Cost: \$690.27

Scenario Cost/Unit: \$345.14

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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Labor

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	21	\$500.50
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Materials

Herbicide, Picloram	337	Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$18.77	2	\$37.54
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Equipment Installation

Chainsaw	937	Equipment and power unit costs. Labor not included.	Hour	\$4.45	18	\$80.18
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Mobilization

Mobilization, very small equipment	1137	Equipment that is small enough to be transported by a pick-up truck with typical weights less than 3,500 pounds. Can be multiple pieces of equipment if all hauled simultaneously.	Each	\$72.05	1	\$72.05
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Scenario: #284 - Linear Tree Removal for Grassland Bird Habitat

Scenario Description: Scenario is to open the vista and visual ranges for Prairie Chickens and other grassland dependent birds and reduce grassland habitat fragmentation by removing undesirable trees. Establishment of herbaceous vegetative cover on the cleared site is accomplished through associated practices such as 327 Conservation Cover.

Before Situation: Grassland habitat for Prairie Chickens and other grassland dependent birds is fragmented by fencerows and other linear areas grown up in mature trees and brush.

After Situation: Habitat is improved by removal of mature trees and brush. Typical size of area cleared is 1,800 ft long by 30 ft wide. Due to the mature trees in the area to be cleared a dozer is typically required. Removed debris is piles and burned and the cleared area is seeded to wildlife friendly vegetation through associated practice 327 Conservation Cover. If needed, associated practice 382 Fence is utilized to protect the area from livestock.

Scenario Feature Measure: size of area cleared

Scenario Unit: Acre

Scenario Typical Size: 1.2

Total Scenario Cost: \$1,508.37

Scenario Cost/Unit: \$1,256.97

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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Equipment Installation

Dozer, 140 HP	927	Track mounted Dozer with horsepower range of 125 to 160. Equipment and power unit costs. Labor not included.	Hour	\$126.50	8	\$1,012.00
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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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Labor

Equipment Operators, Heavy	233	Includes: Cranes, Hydraulic Excavators >=50 HP, Dozers, Paving Machines, Rock Trenchers, Trenchers >=12", Dump Trucks, Ag Equipment >=150 HP, Scrapers, Water Wagons.	Hour	\$29.43	8	\$235.44
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