

Practice: 645 - Upland Wildlife Habitat Management

Scenario # 1 Downed Wildlife Tree Structures

Missouri

Scenario Description:

Downed tree structures will be created to provide shrubby/woody escape cover for wildlife. Existing sod will be killed prior to placement of tree structures. Felling of select trees and placement in selected locations to provide wildlife cover. Minimum 30' x 50' area for structure covered by interlocking limbs of trees at least 12" in diameter. Existing sod must be killed prior to tree placement. Payment includes tree felling and placement and herbicide application to kill existing sod. Note that it takes three 1500 square feet areas to equal 0.1 acre. Facilitating practices may include but not limited to: Wetland Creation (658), Wetland Restoration (657), Wetland Enhancement (659), Early Successional Habitat Management/Development (647), Prescribed Burning (338), Restoration and Management of Rare and Declining Habitats (643), and Conservation Cover (327).

Before Practice Situation:

A 40 acre operation managing for quail and other small game habitat. Shrubby/woody escape cover is often the missing habitat component for bobwhite quail and other small game in fields managed for upland wildlife wildlife.

After Practice Situation:

The installation of a downed tree structure enhances the overall habitat needs of quail and other small game species. These structures/features enhance habitat and improve species survivability.

Scenario Feature Measure:

area covered by structures

Scenario Typical Size:	3	Each	Tot Unit Cost	\$243.54
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Herbicide, Glyphosate	0.1	Acre	\$11.04	\$1.10
Equip./Install.	Chainsaw	9	Hour	\$5.64	\$50.76
Equip./Install.	Truck, Pickup	2	Hour	\$27.28	\$54.56
Equip./Install.	Chemical, ground application	0.1	Acre	\$4.57	\$0.46
Equip./Install.	Tractor, agricultural, 120 HP	6	Hour	\$47.06	\$282.36
Labor	General Labor	9	Hour	\$21.56	\$194.04
Labor	Equipment Operators, Light	6	Hour	\$20.92	\$125.52
Mobilization	Mobilization, General labor	1	Hour	\$21.81	\$21.81

Total Cost: \$730.61

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$182.65	EQIP-HU	\$219.18
WHIP	\$182.65	WHIP-HU	\$219.18
EQIP-CCPI	\$182.65	EQIP-HUCCPI	\$219.18
EQIP-MRBI	\$182.65	EQIP-HUMRBI	\$219.18
WHIP-MRBI	\$182.65	WHIP-HUMRBI	\$219.18

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Scenario # 2 Edgefeathering

Scenario Description:

Missouri

Implementing edge feathering techniques consisting of tree cutting and clipping to create dense woody cover and a transitional area between cropland and forestland to support early successional wildlife species. This 'cutback' border will extend at least 30' into the wooded area, measured from the outside tree trunk, and at least 50' long -- resulting in a minimum area of 1500 square feet covered by interlocking woody branches. Cut stumps will be treated with brush herbicide. Existing sod must be killed prior to the edge feathering operation. Cost estimate includes tree felling and herbicide application to kill existing sod. Facilitating practices may include but not limited to: Wetland Creation (658), Wetland Restoration (657), Wetland Enhancement (659), Early Successional Habitat Management/Development (647), Prescribed Burning (338), Restoration and Management of Rare and Declining Habitats (643), and Conservation Cover (327).

Before Practice Situation:

A 80 acre operation consisting of forested land adjacent to cropland with a hard edge. A transitional area consisting of shrubs, forbs, vines, and other herbaceous vegetation is needed to provide cover for many wildlife species including rabbits, bobwhite quail, birds, and other upland wildlife species.

After Practice Situation:

Installation of edge feathering enhances the overall habitat needs of quail and other small game species. These structures/features enhance habitat and improve species survivability.

Scenario Feature Measure:

area covered by edgefeathering

Scenario Typical Size:	1	Acres	Tot Unit Cost	\$886.62
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Herbicide, Glyphosate	1	Acre	\$11.04	\$11.04
Equip./Install.	Truck, Pickup	2	Hour	\$27.28	\$54.56
Equip./Install.	Tractor, agricultural, 120 HP	6	Hour	\$47.06	\$282.36
Equip./Install.	Chainsaw	12	Hour	\$5.64	\$67.68
Labor	General Labor	14	Hour	\$21.56	\$301.84
Labor	Equipment Operators, Light	6	Hour	\$20.92	\$125.52
Mobilization	Mobilization, General labor	2	Hour	\$21.81	\$43.62

Total Cost: \$886.62

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$664.97	EQIP-HU	\$797.96
WHIP	\$664.97	WHIP-HU	\$797.96
EQIP-CCPI	\$664.97	EQIP-HUCCPI	\$797.96
EQIP-MRBI	\$664.97	EQIP-HUMRBI	\$797.96
WHIP-MRBI	\$664.97	WHIP-HUMRBI	\$797.96

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Scenario # 3 Permanent Forest Opening

Missouri

Scenario Description:

Permanent forest openings will be created by removing ALL trees and stumps AND going from an existing basal area of 60 sq ft/acre or more to a basal area of 0. This practice will create a minimum of 1/4 ac to a maximum of 3 acre clearing within a stand of timber. Openings will be created using heavy equipment and chainsaws. Openings serve as a valuable source for wildlife including brood habitat for forest birds as well as browse for deer and turkey. Creation of forest openings improves habitat for forest edge species, and these areas also serve as sunning and singing grounds for young birds. Facilitating practices may include but not limited to: Wetland Creation (658), Wetland Restoration (657), Wetland Enhancement (659), Early Successional Habitat Management/Development (647), Prescribed Burning (338), Restoration and Management of Rare and Declining Habitats (643), and Conservation Cover (327).

Before Practice Situation:

A 100 acre woodlot lacking diversity in stand structure resulting in limited habitat for forest edge wildlife species. Resource concerns include inadequate species composition, food, and nesting areas. Consideration should be given to avoid placing openings on erodible slopes or soil types.

After Practice Situation:

Installation of a permanent opening brings the identified deficient habitat limiting factors up to planning criteria.

Scenario Feature Measure:

area of opening

Scenario Typical Size:	2	Acres	Tot Unit Cost	\$1,677.90
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Herbicide, Glyphosate	2	Acre	\$11.04	\$22.08
Equip./Install.	Dozer, 200 HP	15	Hour	\$160.69	\$2,410.35
Labor	Equipment Operators, Heavy	15	Hour	\$27.22	\$408.30
Labor	General Labor	4	Hour	\$21.56	\$86.24
Mobilization	Mobilization, Heavy Equipment Operator	2	Hour	\$26.97	\$53.94
Mobilization	Mobilization, large equipment	1	Each	\$374.89	\$374.89

Total Cost: \$3,355.80

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$1,258.43	EQIP-HU	\$1,510.11
WHIP	\$1,258.43	WHIP-HU	\$1,510.11
EQIP-CCPI	\$1,258.43	EQIP-HUCCPI	\$1,510.11
EQIP-MRBI	\$1,258.43	EQIP-HUMRBI	\$1,510.11
WHIP-MRBI	\$1,258.43	WHIP-HUMRBI	\$1,510.11

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Scenario # 4 Glade/Savanna/Open Woodland Restoration

Missouri

Scenario Description:

Removing or reducing tree canopy and utilizing chemical treatment (except for non-sprouting woody species) to promote herbaceous growth or early woody succession to benefit wildlife habitat. Designed for glade, savanna and open woodland restoration where Basal Area removal exceeds 60 square feet per acre, or more than 400 stems per acre. This practice is intended to restore and manage for associated wildlife species that benefit from habitats such as savannas and glades. Facilitating practices may include but not limited to: Wetland Creation (658), Wetland Restoration (657), Wetland Enhancement (659), Early Successional Habitat Management/Development (647), Prescribed Burning (338), Restoration and Management of Rare and Declining Habitats (643), and Conservation Cover (327).

Before Practice Situation:

A 100 acre stand of trees that is even aged and lacks structural diversity. 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 savannas and glades.

After Practice Situation:

The Glade or Savanna habitat is restored and flora and fauna that depend on the glade or savannah habitat flourish.

Scenario Feature Measure:

area of opening

Scenario Typical Size:

2	Acres	Tot Unit Cost	\$424.18
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Herbicide, Glyphosate	2	Acre	\$11.04	\$22.08
Equip./Install.	Chainsaw	24	Hour	\$5.64	\$135.36
Labor	General Labor	28	Hour	\$21.56	\$603.68
Mobilization	Mobilization, General labor	4	Hour	\$21.81	\$87.24

Total Cost: \$848.36

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$318.14	EQIP-HU	\$381.76
WHIP	\$318.14	WHIP-HU	\$381.76
EQIP-CCPI	\$318.14	EQIP-HUCCPI	\$381.76
EQIP-MRBI	\$318.14	EQIP-HUMRBI	\$381.76
WHIP-MRBI	\$318.14	WHIP-HUMRBI	\$381.76

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Scenario # 5 Wildlife Watering

Missouri

Scenario Description:

Establishment of a topographic feature on the landscape consisting of a small dam and pool or small excavated dugout that will hold water to provide a source of drinking water for wildlife, and habitat for reptiles and amphibians. Payment includes the equipment and labor associated with establishing the watering feature.

Before Practice Situation:

This practice will be installed on any area where drinking water for wildlife is inadequate, or a water feature will improve habitat and existence of reptiles and amphibians in an identified area. The resource concerns to be addressed by this practice are inadequate water supply and moist habitat for wildlife that results in poor animal health and populations.

After Practice Situation:

This practice consists of an excavated pool to collect water for wildlife to access and drink from safely. Excavated pools are typically 1000 ft2 and 3 feet deep in center with 4:1 side slopes around edge. Associated practices: Critical Area Planting (342), Conservation Cover (327)

Scenario Feature Measure:

Each watering feature

Scenario Typical Size:	1	Each	Tot Unit Cost	\$766.47
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Equip./Install.	Dozer, 80 HP	4	Hour	\$57.19	\$228.76
Labor	Equipment Operators, Heavy	4	Hour	\$27.22	\$108.88
Mobilization	Mobilization, large equipment	1	Each	\$374.89	\$374.89
Mobilization	Mobilization, Heavy Equipment Operator	2	Hour	\$26.97	\$53.94

Total Cost: \$766.47

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$574.85	EQIP-HU	\$689.82
WHIP	\$574.85	WHIP-HU	\$689.82
EQIP-CCPI	\$574.85	EQIP-HUCCPI	\$689.82
EQIP-MRBI	\$574.85	EQIP-HUMRBI	\$689.82
WHIP-MRBI	\$574.85	WHIP-HUMRBI	\$689.82