

Practice: 315 - Herbaceous Weed Control

Scenario # 1 Biological Control with Grazing Animals

Missouri

Scenario Description:

Management of herbaceous plant species through the use of livestock such as goats, sheep or other grazing animal that will graze on the undesirable herbaceous species. Payment is based on impacted acres only. Payment is based on the use of goats for problems where a stocking rate equivalent of 50 goats can adequately clear 1 acre of undesirable herbaceous species in one day (or equivalent stocking; for example 5 goats for 1 week to clear an acre), or equivalent number of other livestock. Costs are related to transportation of livestock, setting up temporary fencing and/or watering system. Cost represents typical situations for conventional, organic, and transitioning to organic producers.

Before Practice Situation:

Area consists of herbaceous weed species such as sericia lespedeza, japanese stilt grass, periwinkle, ironweed, ragweed, etc. 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:

Livestock grazing is managed to limit the regrowth of herbaceous weed species 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 and plant health and vigor is returning to near normal levels.

Scenario Feature Measure:

Acres teated

Scenario Typical Size:	1	Acre	Tot Unit Cost	\$387.26
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Animals used for biological weed control	50	Head per day	\$1.00	\$50.00
Equip./Install.	Trucking, moving livestock to new paddock	20	Mile	\$3.33	\$66.60
Equip./Install.	Truck, Pickup	2	Hour	\$27.28	\$54.56
Labor	General Labor	8	Hour	\$21.56	\$172.48
Mobilization	Mobilization, General labor	2	Hour	\$21.81	\$43.62
Total Cost:					\$387.26

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$193.63	EQIP-HU	\$290.45
WHIP	\$193.63	WHIP-HU	\$290.45
EQIP-NOI	\$290.45	EQIP-HUNOI	\$348.53

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Scenario # 2 Herbaceous Weed Control - Light Spot Treatments

Missouri

Scenario Description:

Light spot treatment herbaceous weed control is used on non-cropland acres (including forestland, pasture, and wildlife areas) where less than 10% canopy coverage across the treatment area is in undesirable herbaceous cover, or a specific area spot treatment is needed such as creating open ground under a wildlife habitat structure . Payment is based on impacted acres only. The practice entails the treatment of weeds using small equipment (such as an ATV with sprayer) to apply chemicals, or using hand tools (such as axes, shovels, hoes, nippers) to remove or cut off herbaceous plants at or below the root collar. Cost represents typical situations for conventional, organic, and transitioning to organic producers. For organic land, chemical applications must be OMRI approved chemicals.

Before Practice Situation:

Area consists of herbaceous weed species such as sericia lespedeza, japanese stilt grass, periwinkle, ironweed, ragweed, etc. 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:

Herbaceous weeds 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 wildlife habitat is improved.

Scenario Feature Measure:

Acres Treated

Scenario Typical Size:	25	Acre	Tot Unit Cost	\$32.33
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Herbicide, Triclopyor	2.5	Acre	\$61.01	\$152.53
Equip./Install.	Chemical, spot treatment, single stem	8	Hour	\$55.87	\$446.96
Equip./Install.	Truck, Pickup	2	Hour	\$27.28	\$54.56
Labor	General Labor	2	Hour	\$21.56	\$43.12
Mobilization	Mobilization, very small equipment	2	Each	\$55.50	\$111.00
Total Cost:					\$808.17

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$24.24	EQIP-HU	\$29.09
WHIP	\$24.24	WHIP-HU	\$29.09
EQIP-NOI	\$24.24	EQIP-HUNOI	\$29.09

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Scenario # 3 Herbaceous Weed Control - Medium Spot Treatments

Missouri

Scenario Description:

Medium spot treatment herbaceous species management is used on non-cropland acres (including forestland, pasture, and wildlife areas) where greater than 10% canopy coverage across the treatment area is in undesirable herbaceous cover, and spot treatment is preferred over blanket treatment to maintain the persistence of desirable broadleaf and legumes within the treatment area. Payment is based on impacted acres only. The practice entails the treatment of weeds using small equipment (such as an ATV with sprayer) to apply chemicals, or using applicable mechanical methods such as hand tools (such as axes, shovels, hoes, nippers) to remove or cut off herbaceous plants at or below the root collar, and/or spot mowing. Cost represents typical situations for conventional, organic, and transitioning to organic producers. For organic land, chemical applications must be OMRI approved chemicals.

Before Practice Situation:

Area consists of herbaceous weed species such as sericia lespedeza, japanese stilt grass, periwinkle, ironweed, ragweed, etc. 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:

Herbaceous weeds 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 wildlife habitat is improved.

Scenario Feature Measure:

Acres Treated

Scenario Typical Size:	25	Acre	Tot Unit Cost	\$93.71
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Herbicide, Triclopyor	13	Acre	\$61.01	\$793.13
Equip./Install.	Chemical, spot treatment, single stem	24	Hour	\$55.87	\$1,340.88
Equip./Install.	Truck, Pickup	2	Hour	\$27.28	\$54.56
Labor	General Labor	2	Hour	\$21.56	\$43.12
Mobilization	Mobilization, very small equipment	2	Each	\$55.50	\$111.00

Total Cost: \$2,342.69

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$70.28	EQIP-HU	\$84.34
WHIP	\$70.28	WHIP-HU	\$84.34
EQIP-NOI	\$70.28	EQIP-HUNOI	\$84.34

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Scenario # 4 Herbaceous Weed Control - Blanket Treatment One Pass

Missouri

Scenario Description:

Blanket treatment one pass herbaceous weed control is used on non-cropland acres (including forestland, pasture, and wildlife areas) where a blanket treatment approach is acceptable and the non-desireable weeds can be controlled with one treatment. Payment is based on impacted acres only. The practice entails the treatment of weeds using a blanket chemical application or mechanical brush hog operation. Cost represents typical situations for conventional, organic, and transitioning to organic producers. For organic land, chemical applications must be OMRI approved chemicals.

Before Practice Situation:

Area consists of herbaceous weed species such as sericia lespedeza, japanese stilt grass, periwinkle, ironweed, ragweed, etc. 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:

Herbaceous weeds 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 wildlife habitat is improved.

Scenario Feature Measure:

Acres Treated

Scenario Typical Size:	25	Acre	Tot Unit Cost	\$90.01
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Herbicide, Triclopyor	25	Acre	\$61.01	\$1,525.25
Equip./Install.	Chemical, ground application	25	Acre	\$4.57	\$114.25
Equip./Install.	Tractor, agricultural, 60 HP	6	Hour	\$19.28	\$115.68
Equip./Install.	Truck, Pickup	2	Hour	\$27.28	\$54.56
Labor	Equipment Operators, Light	6	Hour	\$20.92	\$125.52
Mobilization	Mobilization, small equipment	2	Each	\$136.80	\$273.60
Mobilization	Mobilization, Light Equipment Operator	2	Hour	\$20.73	\$41.46

Total Cost: \$2,250.32

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$67.51	EQIP-HU	\$81.01
WHIP	\$67.51	WHIP-HU	\$81.01
EQIP-NOI	\$67.51	EQIP-HUNOI	\$81.01

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Scenario # 5 Herbaceous Weed Control - Blanket Treatment Multi Pass

Missouri

Scenario Description:

Blanket treatment multi pass herbaceous weed control is used on non-cropland acres (including forestland, pasture, and wildlife areas) where a blanket treatment approach is acceptable and multiple passes or approaches are needed to control the non-desireable weeds. Payment is based on impacted acres only. The practice entails the treatment of weeds using multiple blanket chemical applications or multiple mechanical brush hog operations, or a combination of chemical and mechanical. Cost represents typical situations for conventional, organic, and transitioning to organic producers. For organic land, chemical applications must be OMRI approved chemicals.

Before Practice Situation:

Area consists of herbaceous weed species such as sericia lespedeza, japanese stilt grass, periwinkle, ironweed, ragweed, etc. 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:

Herbaceous weeds 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 wildlife habitat is improved.

Scenario Feature Measure:

Acres Treated

Scenario Typical Size:	25	Acre	Tot Unit Cost	\$176.41
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Herbicide, Triclopyor	50	Acre	\$61.01	\$3,050.50
Equip./Install.	Chemical, ground application	50	Acre	\$4.57	\$228.50
Equip./Install.	Tractor, agricultural, 60 HP	12	Hour	\$19.28	\$231.36
Equip./Install.	Truck, Pickup	4	Hour	\$27.28	\$109.12
Equip./Install.	Mower, Bush Hog	6	Hour	\$44.40	\$266.40
Labor	Equipment Operators, Light	10	Hour	\$20.92	\$209.20
Mobilization	Mobilization, small equipment	2	Each	\$136.80	\$273.60
Mobilization	Mobilization, Light Equipment Operator	2	Hour	\$20.73	\$41.46

Total Cost: \$4,410.14

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$132.30	EQIP-HU	\$158.77
WHIP	\$132.30	WHIP-HU	\$158.77
EQIP-NOI	\$132.30	EQIP-HUNOI	\$158.77

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Scenario # 6 Tree & Shrub Post-planting Weed Control

Missouri

Scenario Description:

Treatment takes place in areas where newly planted trees and/or shrubs are experiencing encroachment by grass and weed competition. Chemical treatment is needed to ensure the successful establishment of desirable woody species through the application of appropriate herbicides via directional spray to reduce residual effects on planted trees and/or shrubs. Areas to be treated tend to be small and isolated, resulting in high mobilization costs. Due to desirable species mixed with undesirable, caution is needed during treatment.

Before Practice Situation:

Planted trees or shrubs are experiencing excessive grass and weed competition resulting in poor plant health, reduced growth, and some mortality.

After Practice Situation:

Desirable vegetation is released from competing vegetation. All undesirable vegetation is removed within 2 feet of desired plants.

Scenario Feature Measure:

Acres treated

Scenario Typical Size:	5	Acre	Tot Unit Cost	\$155.35
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Herbicide, Sulfometuron-methyl	5	Acre	\$34.18	\$170.90
Materials	Herbicide, Surfactant	5	Acre	\$1.09	\$5.45
Equip./Install.	Chemical, spot treatment, single stem	2	Hour	\$55.87	\$111.74
Equip./Install.	All terrain vehicles, ATV	2	Hour	\$29.82	\$59.64
Equip./Install.	Mower, Bush Hog	1	Hour	\$44.40	\$44.40
Mobilization	Mobilization, small equipment	2	Each	\$136.80	\$273.60
Mobilization	Mobilization, very small equipment	2	Each	\$55.50	\$111.00

Total Cost: \$776.73

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$116.51	EQIP-HU	\$139.81
WHIP	\$116.51	WHIP-HU	\$139.81
EQIP-NOI	\$116.51	EQIP-HUNOI	\$139.81