Practice: 315 - Herbaceous Weed Control

Scenario # 1 **Biological**

Scenario Description: **Louisiana**

Management of herbaceous plant species through the use of livestock that are closely herded to concentrate grazinging on undesired herbaceous species. Stands of herbaceous weed species that exceed the desirable ecological site condition. This scenario is an alternative for organic producers.

Before Practice Situation:

Area consist of tends of herbaceous weed 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 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, hydrology and plant health and vigor is returning to near normal levels.

Scenario Feature Measure:

Acres teated

Scenario Typical Size:	10	Acre	Unit Cost	$22.24

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Animals used for biological weed control	10	Head per day	$1.00	$10.00
Equip./Install.	Trucking, moving livestock to new paddock	20	Mile	$2.21	$44.20
Equip./Install.	Truck, Pickup	4	Hour	$23.48	$93.92
Labor	General Labor	4	Hour	$18.57	$74.28
				Total Cost:	$222.40

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Scenario # 2 Mechanical

Scenario Description: **Louisiana**

Removal of herbaceous weeds of light infestations. The practice entails the removal of herbaceous weeds by the use of mower, brush hog, disc or other light equipment in order to reduce fuel loading and improve ecological site condition. Weed has exceeded desired levels based on ecological site potential. Typical unit is 40 acres.

Before Practice Situation:

Area consist of excessive stands of herbaceous weeds degrading health and vigor of native herbaceous species promoting noxious and invasive species 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 improved wildlife habitat.

Scenario Feature Measure:

Acres treated

Scenario Typical Size:	40	Acre	Unit Cost	$22.96

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Equip./Install.	Mower, Bush Hog	12	Hour	$38.21	$458.52
Equip./Install.	Truck, Pickup	2	Hour	$23.48	$46.96
Labor	Equipment Operators, Light	12	Hour	$19.22	$230.64
Mobilization	Mobilization, small equipment	2	Each	$91.12	$182.24
				Total Cost:	$918.36

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Scenario # 3 Chemical, Spot

Scenario Description: **Louisiana**

Land unit on which weed control would be beneficial in order to set back the plant community succession, improve the ecological condition, and improve forage conditions for domestic livestock or wildlife. The practice entails the eradication of vegetation by use of weed treatment, either initial or retreatment using hand-carried equipment (such as a backpack and hand-sprayer) to apply chemicals, in order to eliminate noxious weeds, promote forage productivity, and improve ecological condition.

Before Practice Situation:

Area consist of excessive stands of herbaceous weeds degrading health and vigor of native herbaceous species promoting noxious and invasive species 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 improved wildlife habitat.

Scenario Feature Measure:

Acres treated

Scenario Typical Size:	20	Acre	Unit Cost	$36.64

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Herbicide, Glyphosate	20	Acre	$11.04	$220.80
Materials	Herbicide, 2,4-D	20	Acre	$6.00	$120.00
Materials	Herbicide, Imazapic	20	Acre	$11.45	$229.00
Equip./Install.	All terrain vehicles, ATV	4	Hour	$25.66	$102.64
Equip./Install.	Truck, Pickup	1	Hour	$23.48	$23.48
Mobilization	Mobilization, very small equipment	1	Each	$36.97	$36.97
				Total Cost:	$732.89

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Scenario # 4 **Chemical - Ground, Light**

Scenario Description: **Louisiana**

Land unit on which weed control would be beneficial in order to set back the plant community succession, improve the ecological condition, and improve forage conditions for domestic livestock or wildlife. The practice entails the eradication of (herbaceous weeds) vegetation by use of weed treatment using ground equipment to apply chemicals, in order to eliminate noxious weeds, promote forage productivity, and improve ecological condition.

Before Practice Situation:

Area consist of excessive stands of herbaceous weeds degrading health and vigor of native herbaceous species promoting noxious and invasive species 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 improved wildlife habitat.

Scenario Feature Measure:

Acres treated

Scenario Typical Size:	20	Acre		Unit Cost	$17.92

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Herbicide, 2,4-D	20	Acre	$6.00	$120.00
Materials	Herbicide, Surfactant	20	Acre	$1.09	$21.80
Equip./Install.	Chemical, ground application	20	Acre	$3.93	$78.60
Equip./Install.	Truck, Pickup	2	Hour	$23.48	$46.96
Mobilization	Mobilization, small equipment	1	Each	$91.12	$91.12
				Total Cost:	$358.48

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Scenario # 5 Chemical - Ground, Medium

Scenario Description: **Louisiana**

Land unit on which weed control would be beneficial in order to set back the plant community succession, improve the ecological condition, and improve forage conditions for domestic livestock or wildlife. The practice entails the eradication of (herbaceous weeds) vegetation by use of weed treatment using ground equipment to apply chemicals, in order to eliminate noxious weeds, promote forage productivity, and improve ecological condition.

Before Practice Situation:

Area consist of excessive stands of herbaceous weeds degrading health and vigor of native herbaceous species promoting noxious and invasive species 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 improved wildlife habitat.

Scenario Feature Measure:

Acres treated

Scenario Typical Size:	20	Acre		Unit Cost	$30.55

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Herbicide, Picloram	20	Acre	$12.63	$252.60
Materials	Herbicide, 2,4-D	20	Acre	$6.00	$120.00
Materials	Herbicide, Surfactant	20	Acre	$1.09	$21.80
Equip./Install.	Chemical, ground application	20	Acre	$3.93	$78.60
Equip./Install.	Truck, Pickup	2	Hour	$23.48	$46.96
Mobilization	Mobilization, small equipment	1	Each	$91.12	$91.12
				Total Cost:	$611.08

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Scenario # 6 Chemical -Ground, Heavy

Scenario Description: **Louisiana**

Land unit on which weed control would be beneficial in order to set back the plant community succession, improve the ecological condition, and improve forage conditions for domestic livestock or wildlife. The practice entails the eradication of (herbaceous weeds) vegetation by use of weed treatment using ground equipment to apply chemicals, in order to eliminate noxious weeds, promote forage productivity, and improve ecological condition.

Before Practice Situation:

Area consist of excessive stands of herbaceous weeds degrading health and vigor of native herbaceous species promoting noxious and invasive species 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 improved wildlife habitat.

Scenario Feature Measure:

Acres treated

Scenario Typical Size:	20	Acre		Unit Cost	$91.23

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Herbicide, Imazapyr	20	Acre	$79.31	$1,586.20
Materials	Herbicide, Surfactant	20	Acre	$1.09	$21.80
Equip./Install.	Chemical, ground application	20	Acre	$3.93	$78.60
Equip./Install.	Truck, Pickup	2	Hour	$23.48	$46.96
Mobilization	Mobilization, small equipment	1	Each	$91.12	$91.12
				Total Cost:	$1,824.68