

## Scenario Worksheet

## Practice and Scenario Description:

Information Type	Data
Region	New England
State	Connecticut
Discipline Group	Range/Pasture Grazing
Practice Code/Name	315 - Herbaceous Weed Control
Scenario ID	7
Scenario Name	Livestock
Scenario Description	Management of herbaceous plant species through the use of livestock that are closely herded to concentrate grazing on undesired herbaceous species. Typical area is moderate rolling to gentle sloping, moderately deep to deep soils that have 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 treated
Scenario Unit	Acre
Scenario Typical Size	5

## Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$50.00	\$10.00
Equipment/Installation	\$174.00	\$34.80
Labor	\$790.80	\$158.16
Mobilization	\$272.11	\$54.42
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$1,286.91	\$257.38

## Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	1130	Animals used for biological weed control	Goats, Llamas, Sheep - Includes all support: fence, water, dog, mob, etc.	Head per day	\$1.00	50	\$50.00
Equipment/Installation	965	All terrain vehicles, ATV	Includes equipment, power unit and labor costs.	Hour	\$28.98	4	\$115.92
Equipment/Installation	961	Trucking, moving livestock to new paddock	Livestock transportation costs to implement a grazing rotation using a gooseneck trailer 6'8" x 24'. Includes equipment, power unit and labor costs.	Mile	\$2.53	2	\$5.06
Equipment/Installation	939	Truck, Pickup	Equipment and power unit costs. Labor not included.	Hour	\$26.51	2	\$53.02
Labor	230	Skilled Labor	Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$39.54	20	\$790.80
Mobilization	1137	Mobilization, very small equipment	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	\$75.96	1	\$75.96
Mobilization	1141	Mobilization, Skilled labor	Mobilization of skilled labor: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$39.23	5	\$196.15

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**Practice and Scenario Description:**

<b>Information Type</b>	<b>Data</b>
Region	New England
State	Connecticut
Discipline Group	Range/Pasture Grazing
Practice Code/Name	315 - Herbaceous Weed Control
Scenario ID	1
Scenario Name	Low Density
Scenario Description	Remove light infestations of herbaceous weeds using a mower, herbicide, or other state approved methods.
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 Unit	Acre
Scenario Typical Size	5

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$0.00	\$0.00
Equipment/Installation	\$107.85	\$21.57
Labor	\$59.75	\$11.95
Mobilization	\$199.07	\$39.81
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
<b>Total</b>	<b>\$366.67</b>	<b>\$73.33</b>

**Cost Details:**

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation	940	Mower, Bush Hog	Equipment and power unit costs. Labor not included.	Hour	\$43.14	2.5	\$107.85
Labor	232	Equipment Operators, Light	Includes: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers	Hour	\$23.90	2.5	\$59.75
Mobilization	1138	Mobilization, small equipment	Equipment <70 HP but can't be transported by a pick-up truck or with typical weights between 3,500 to 14,000 pounds.	Each	\$187.23	1	\$187.23
Mobilization	1143	Mobilization, Light Equipment Operator	Mobilization of light equipment operators: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers	Hour	\$23.67	0.5	\$11.84

**Scenario Worksheet**

**Practice and Scenario Description:**

<b>Information Type</b>	<b>Data</b>
Region	New England
State	Connecticut
Discipline Group	Range/Pasture Grazing
Practice Code/Name	315 - Herbaceous Weed Control
Scenario ID	2
Scenario Name	Low Density with Follow Up
Scenario Description	Remove light infestations of herbaceous weeds using a mower, herbicide, or other state approved methods. This scenario includes a follow up treatment to control re-sprout of the weeds after practice certification.
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 Unit	Acre
Scenario Typical Size	5

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$0.00	\$0.00
Equipment/Installation	\$172.56	\$34.51
Labor	\$95.60	\$19.12
Mobilization	\$398.13	\$79.63
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
<b>Total</b>	<b>\$666.29</b>	<b>\$133.26</b>

**Cost Details:**

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation	940	Mower, Bush Hog	Equipment and power unit costs. Labor not included.	Hour	\$43.14	4	\$172.56
Labor	232	Equipment Operators, Light	Includes: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers	Hour	\$23.90	4	\$95.60
Mobilization	1138	Mobilization, small equipment	Equipment <70 HP but can't be transported by a pick-up truck or with typical weights between 3,500 to 14,000 pounds.	Each	\$187.23	2	\$374.46
Mobilization	1143	Mobilization, Light Equipment Operator	Mobilization of light equipment operators: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers	Hour	\$23.67	1	\$23.67

**Scenario Worksheet**

**Practice and Scenario Description:**

Information Type	Data
Region	New England
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Discipline Group	Range/Pasture Grazing
Practice Code/Name	315 - Herbaceous Weed Control
Scenario ID	3
Scenario Name	Average Density
Scenario Description	Remove average infestations of herbaceous weeds using state approved chemical/mechanical methods. This scenario often involves chemical application (with backpack or other types of sprayers) which may be used in combination with manual cutting.
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 Unit	Acre
Scenario Typical Size	1

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$62.10	\$62.10
Equipment/Installation	\$167.61	\$167.61
Labor	\$39.54	\$39.54
Mobilization	\$115.19	\$115.19
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$384.44	\$384.44

**Cost Details:**

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	1095	Herbicide, Surfactant	Surfactants reduce the surface tension of water to produce more uniform coverage and penetration of herbicides, and weed killers. Paraffin Based Petroleum Surfactant. Refer to WIN-PST for product names and active ingredients. Materials only.	Acre	\$1.09	1	\$1.09
Materials	338	Herbicide, Triclopyr	Triclopyr butoxyethyl ester (BEE) is a selective foliar and root absorbed, translocated herbicide used for control of woody and broadleaf plants. Product is typically used in these practices 595, 314, 645 and 666. Refer to WIN-PST for product names and active ingredients. Materials only.	Acre	\$61.01	1	\$61.01
Equipment/Installation	964	Chemical, spot treatment, single stem application	Ground applied chemical to individual plants or group of plants, e.g., backpack sprayer treatment. Equipment and labor cost included.	Hour	\$55.87	3	\$167.61
Labor	230	Skilled Labor	Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$39.54	1	\$39.54
Mobilization	1137	Mobilization, very small equipment	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	\$75.96	1	\$75.96
Mobilization	1141	Mobilization, Skilled labor	Mobilization of skilled labor: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$39.23	1	\$39.23

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## Practice and Scenario Description:

<b>Information Type</b>	<b>Data</b>
Region	New England
State	Connecticut
Discipline Group	Range/Pasture Grazing
Practice Code/Name	315 - Herbaceous Weed Control
Scenario ID	4
Scenario Name	Average Density with Follow Up
Scenario Description	Remove dense infestations of herbaceous weeds using state approved chemical/mechanical methods. This scenario often involves chemical application (with backpack or other types of sprayers) which may be used in combination with manual cutting. This scenario includes a follow up "spot treatment" to control re-sprout of the weeds after practice certification.
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 Unit	Acre
Scenario Typical Size	1

## Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$93.15	\$93.15
Equipment/Installation	\$251.42	\$251.42
Labor	\$59.31	\$59.31
Mobilization	\$230.38	\$230.38
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$634.26	\$634.26

## Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	1095	Herbicide, Surfactant	Surfactants reduce the surface tension of water to produce more uniform coverage and penetration of herbicides, and weed killers. Paraffin Based Petroleum Surfactant. Refer to WIN-PST for product names and active ingredients. Materials only.	Acre	\$1.09	1.5	\$1.64
Materials	338	Herbicide, Triclopyr	Triclopyr butoxyethyl ester (BEE) is a selective foliar and root absorbed, translocated herbicide used for control of woody and broadleaf plants. Product is typically used in these practices 595, 314, 645 and 666. Refer to WIN-PST for product names and active ingredients. Materials only.	Acre	\$61.01	1.5	\$91.52
Equipment/Installation	964	Chemical, spot treatment, single stem application	Ground applied chemical to individual plants or group of plants, e.g., backpack sprayer treatment. Equipment and labor cost included.	Hour	\$55.87	4.5	\$251.42
Labor	230	Skilled Labor	Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$39.54	1.5	\$59.31
Mobilization	1137	Mobilization, very small equipment	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	\$75.96	2	\$151.92
Mobilization	1141	Mobilization, Skilled labor	Mobilization of skilled labor: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$39.23	2	\$78.46

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## Practice and Scenario Description:

Information Type	Data
Region	New England
State	Connecticut
Discipline Group	Range/Pasture Grazing
Practice Code/Name	315 - Herbaceous Weed Control
Scenario ID	5
Scenario Name	High Density
Scenario Description	Remove dense infestations of herbaceous weeds using state approved chemical/mechanical methods. This scenario often involves chemical application (with backpack or other types of sprayers) which may be used in combination with manual/machine cutting.
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 Unit	Acre
Scenario Typical Size	1

## Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$62.10	\$62.10
Equipment/Installation	\$526.29	\$526.29
Labor	\$79.08	\$79.08
Mobilization	\$115.19	\$115.19
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$782.66	\$782.66

## Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	338	Herbicide, Triclopyr	Triclopyr butoxyethyl ester (BEE) is a selective foliar and root absorbed, translocated herbicide used for control of woody and broadleaf plants. Product is typically used in these practices 595, 314, 645 and 666. Refer to WIN-PST for product names and active ingredients. Materials only.	Acre	\$61.01	1	\$61.01
Materials	1095	Herbicide, Surfactant	Surfactants reduce the surface tension of water to produce more uniform coverage and penetration of herbicides, and weed killers. Paraffin Based Petroleum Surfactant. Refer to WIN-PST for product names and active ingredients. Materials only.	Acre	\$1.09	1	\$1.09
Equipment/Installation	964	Chemical, spot treatment, single stem application	Ground applied chemical to individual plants or group of plants, e.g., backpack sprayer treatment. Equipment and labor cost included.	Hour	\$55.87	3	\$167.61
Equipment/Installation	943	Mechanical cutter, chopper	Masticator, flail shredder, hydro axe, brush cutter, etc. Equipment and power unit costs. Labor not included.	Hour	\$119.56	3	\$358.68
Labor	230	Skilled Labor	Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$39.54	2	\$79.08
Mobilization	1137	Mobilization, very small equipment	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	\$75.96	1	\$75.96
Mobilization	1141	Mobilization, Skilled labor	Mobilization of skilled labor: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$39.23	1	\$39.23

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## Practice and Scenario Description:

Information Type	Data
Region	New England
State	Connecticut
Discipline Group	Range/Pasture Grazing
Practice Code/Name	315 - Herbaceous Weed Control
Scenario ID	6
Scenario Name	High Density with Follow Up
Scenario Description	Remove dense infestations of herbaceous weeds using state approved chemical/mechanical methods. This scenario often involves chemical application (with backpack or other types of sprayers) which may be used in combination with manual/machine cutting. This scenario includes a follow up "spot treatment" to control re-sprout of the weeds after practice certification.
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 Unit	Acre
Scenario Typical Size	1

## Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$93.15	\$93.15
Equipment/Installation	\$610.10	\$610.10
Labor	\$118.62	\$118.62
Mobilization	\$230.38	\$230.38
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$1,052.25	\$1,052.25

## Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	338	Herbicide, Triclopyr	Triclopyr butoxyethyl ester (BEE) is a selective foliar and root absorbed, translocated herbicide used for control of woody and broadleaf plants. Product is typically used in these practices 595, 314, 645 and 666. Refer to WIN-PST for product names and active ingredients. Materials only.	Acre	\$61.01	1.5	\$91.52
Materials	1095	Herbicide, Surfactant	Surfactants reduce the surface tension of water to produce more uniform coverage and penetration of herbicides, and weed killers. Paraffin Based Petroleum Surfactant. Refer to WIN-PST for product names and active ingredients. Materials only.	Acre	\$1.09	1.5	\$1.64
Equipment/Installation	964	Chemical, spot treatment, single stem application	Ground applied chemical to individual plants or group of plants, e.g., backpack sprayer treatment. Equipment and labor cost included.	Hour	\$55.87	4.5	\$251.42
Equipment/Installation	943	Mechanical cutter, chopper	Masticator, flail shredder, hydro axe, brush cutter, etc. Equipment and power unit costs. Labor not included.	Hour	\$119.56	3	\$358.68
Labor	230	Skilled Labor	Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$39.54	3	\$118.62
Mobilization	1137	Mobilization, very small equipment	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	\$75.96	2	\$151.92
Mobilization	1141	Mobilization, Skilled labor	Mobilization of skilled labor: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$39.23	2	\$78.46