

Practice: 528 - Prescribed Grazing

Scenario: #1 - PCS Very Low Mgmt (Yr 1)

Scenario Description:

A baseline pasture condition assessment will be completed by the participant with the assistance of a conservationist using the pasture condition score card. A grazing mgmt plan will be implemented. Participant will monitor the health of the pastures by conducting at least quarterly pasture condition assessments (transects). Participant will record the number of days grazed and rested, stubble heights of forage prior and after grazing, number and size of grazing animals, nutrients/herbicides applied. Participant has 3 years to bring score from 10-15 to 36-45. 1st year only

Before Situation:

Pasture is uniformly overgrazed and not deferred/rested from grazing. Desirable species <20% of the stand. Undesirable herbaceous and/or woody plants becoming dominant. <10% of the stand meets the minimum residual grazing height of the desirable species. Yields are 25% below site potential. Compaction severe throughout. Pasture contains only one to two species, one functional group.

After Situation:

A prescribed grazing schedule, contingency plan that details potential climatic problems and monitoring plan is being followed. Removal of herbage by the grazing animals is in accordance with production limitations, plant sensitivities and management goals. Frequency of defoliations and season of grazing is based on the rate of growth and physiological condition of the plants.

Scenario Feature Measure:

Scenario Unit: Acre

Scenario Typical Size: 40

Scenario Cost: \$5,274.32

Scenario Cost/Unit: \$131.86

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
Rangeland/grassland field monitoring kit	967	Miscellaneous tools needed to complete rangeland/grassland monitoring. Materials may include camera, clippers, plot frame, scale, tape measure, etc. Includes materials and shipping only.	Each	\$45.96	1	\$45.96
Labor						
Specialist Labor	235	Labor requiring a specialized skill set: Includes Agronomists, Foresters, Biologists, etc. to provide additional technical information during the planning and implementation of the practice. Does not include NRCS or TSP services.	Hour	\$100.73	40	\$4,029.20
Skilled Labor	230	Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$26.95	20	\$539.00
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	\$20.63	32	\$660.16

Practice: 528 - Prescribed Grazing

Scenario: #2 - PCS Very Low Mgmt (Yr 2&3)

Scenario Description:

2nd and 3rd year of monitoring. Participant will turn in record keeping book which also includes weather data and pictures of livestock and forage.

Before Situation:

Pasture is uniformly overgrazed and not deferred/rested from grazing. Desirable species <20% of the stand. Undesirable herbaceous and/or woody plants becoming dominant. <10% of the stand meets the minimum residual grazing height of the desirable species. Yields are 25% below site potential. Compaction severe throughout. Pasture contains only one to two species, one functional group

After Situation:

A prescribed grazing schedule, contingency plan that details potential climatic problems and monitoring plan is being followed. Removal of herbage by the grazing animals is in accordance with production limitations, plant sensitivities and management goals. Frequency of defoliations and season of grazing is based on the rate of growth and physiological condition of the plants.

Scenario Feature Measure:

Scenario Unit: Acre

Scenario Typical Size: 40

Scenario Cost: \$1,256.40

Scenario Cost/Unit: \$31.41

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
<i>Labor</i>						
Skilled Labor	230	Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$26.95	16	\$431.20
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	\$20.63	40	\$825.20

Practice: 528 - Prescribed Grazing

Scenario: #3 - PCS Low Mgmt (Yr 1)

Scenario Description:

A baseline pasture condition assessment will be completed by the participant with the assistance of a conservationist using the pasture condition score card. A grazing mgmt plan will be implemented. Participant will monitor the health of the pastures by conducting at least quarterly pasture condition assessments (transects). Participant will record the number of days grazed and rested, stubble height of forage before and after grazing, number & size of grazing animals, nutrients/herbicides applied. Participant has 3 years to bring score from 16-25 to 36-45. Year 1

Before Situation:

Pasture is not deferred/rested from grazing. Spot grazing greater than 30%. Desirable species 20-4-% of the stand. 10-15% of the stand meets the minimum residual grazing height of the desirable species. Yields are 10-25% below site potential. Compaction evident throughout. Sheet and rill erosion is evident. Pasture contains two to four species, two functional groups

After Situation:

A prescribed grazing schedule, contingency plan that details potential climatic problems and monitoring plan is being followed. Removal of herage by the grazing animals is in accordance with production limitations, plant sensitivities and management goals. Frequency of defoliations and season of grazing is based on the rate of growth and physiological condition of the plants.

Scenario Feature Measure:

Scenario Unit: Acre

Scenario Typical Size: 40

Scenario Cost: \$4,525.72

Scenario Cost/Unit: \$113.14

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
Rangeland/grassland field monitoring kit	967	Miscellaneous tools needed to complete rangeland/grassland monitoring. Materials may include camera, clippers, plot frame, scale, tape measure, etc. Includes materials and shipping only.	Each	\$45.96	1	\$45.96
Labor						
Specialist Labor	235	Labor requiring a specialized skill set: Includes Agronomists, Foresters, Biologists, etc. to provide additional technical information during the planning and implementation of the practice. Does not include NRCS or TSP services.	Hour	\$100.73	32	\$3,223.36
Skilled Labor	230	Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$26.95	16	\$431.20
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	\$20.63	40	\$825.20

Practice: 528 - Prescribed Grazing

Scenario: #4 - PCS Low Mgmt (Yr 2&3)

Scenario Description:

2nd and 3rd year of monitoring. Participant will turn in record keeping book which also includes weather data and pictures of livestock and forage.

Before Situation:

Pasture is not deferred/rested from grazing. Spot grazing greater than 30%. Desirable species 20-40% of the stand. 10-15% of the stand meets the minimum residual grazing height of the desirable species. Yields are 10-25% below site potential. Compaction evident throughout. Sheet and rill erosion is evident. Pasture contains two to four species, two functional groups

After Situation:

A prescribed grazing schedule, contingency plan that details potential climatic problems and monitoring plan is being followed. Removal of herbage by the grazing animals is in accordance with production limitations, plant sensitivities and management goals. Frequency of defoliations and season of grazing is based on the rate of growth and physiological condition of the plants.

Scenario Feature Measure:

Scenario Unit: Acre

Scenario Typical Size: 40

Scenario Cost: \$1,148.60

Scenario Cost/Unit: \$28.72

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
<i>Labor</i>						
Skilled Labor	230	Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$26.95	12	\$323.40
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	\$20.63	40	\$825.20

Practice: 528 - Prescribed Grazing

Scenario: #5 - PCS Moderate Mgmt (Year 1)

Scenario Description:

A baseline pasture condition assessment will be completed by the participant with the assistance of a conservationist using the pasture condition score card. A grazing mgmt plan will be implemented. Participant will monitor the health of the pastures by conducting at least quarterly pasture condition assessment (transects). Participant will record the number of days grazed and rested, stubble heights of forage before and after grazing, number & size of grazing animals, nutrients/herbicides applied. Participant has 3 years to bring score from 26-35 to 36-45. Year 1

Before Situation:

Pasture is not deferred/rested from grazing. Spot grazing is 10-30%. Desirable species 40-60% of the stand. 25-50% of the stand meets the minimum residual grazing height of the desirable species. Yields may be below site potential. Moderate compaction evident throughout. Some service ponding. Pasture contains two to four species, two functional groups and one legume.

After Situation:

A prescribed grazing schedule, contingency plan that details potential climatic problems and monitoring plan is being followed. Removal of herbage by the grazing animals is in accordance with production limitations, plant sensitivities and management goals. Frequency of defoliations and season of grazing is based on the rate of growth and physiological condition of the plants.

Scenario Feature Measure:

Scenario Unit: Acre

Scenario Typical Size: 40

Scenario Cost: \$2,120.88

Scenario Cost/Unit: \$53.02

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
Rangeland/grassland field monitoring kit	967	Miscellaneous tools needed to complete rangeland/grassland monitoring. Materials may include camera, clippers, plot frame, scale, tape measure, etc. Includes materials and shipping only.	Each	\$45.96	1	\$45.96
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	\$20.63	64	\$1,320.32
Skilled Labor	230	Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$26.95	28	\$754.60

Practice: 528 - Prescribed Grazing

Scenario: #6 - PCS Moderate Mgmt (Yr 2&3)

Scenario Description:

2nd and 3rd year of monitoring. Participant will turn in record keeping book which also includes weather data and pictures of livestock and forage.

Before Situation:

Pasture is not deferred/rested from grazing. Spot grazing 10-30%. Desirable species 40-60% of the stand. 25-50% of the stand meets the minimum residual grazing height for the desirable species. Yields may be below site potential. Moderate compaction evident throughout. Some service ponding. Pasture contains two to four species, two functional groups and one legume

After Situation:

A prescribed grazing schedule, contingency plan that details potential climatic problems and monitoring plan is being followed. Removal of herbage by the grazing animal is in accordance with production limitations, plant sensitivities and management goals. Frequency of defoliations and season of grazing is based on the rate of growth and physiological condition of the plants

Scenario Feature Measure:

Scenario Unit: Acre

Scenario Typical Size: 40

Scenario Cost: \$710.72

Scenario Cost/Unit: \$17.77

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
<i>Labor</i>						
Skilled Labor	230	Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$26.95	8	\$215.60
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	\$20.63	24	\$495.12

Practice: 528 - Prescribed Grazing

Scenario: #9 - Pasture Deferment - Long Term

Scenario Description:

Defer the pasture for 210 days and up to a growing season to provide rest to specific plants such as native grasses. The rest is needed to provide long-term rest to specific plants that would typically decline in plant health, vigor, and availability due to overgrazing. The importance of long-term deferment is critical to the long term success of the plants and meeting the desired life span.

Before Situation:

The producer will typically graze the plants before they have sufficient time to become established. Therefore, any plants that emerges will be susceptible to early grazing pressure and possibly overgrazing. Existing herbaceous vegetation will compete against the desired plants and become dominant. The lack of cover reduces the wildlife habitat. No monitoring or record keeping is currently being completed. Plants not adapted or suited, inadequate wildlife cover, soil erosion, and inadequate plant productivity and vigor are common resource concerns.

After Situation:

Scenario describes activities completed to restrict grazing for a defined period during the normal grazing period to provide rest to targeted plants. Activities include moving livestock to alternate locations, sampling and analyzing pasture condition, recordkeeping. Foregone Income used represents the acreage of usable forage not utilized during the deferment period as a proportion of the grazing season. Typical size of 120 acre pasture operation with 30 animal units where 50% of the acreage (or 60 acres) is deferred from grazing for 210 days. Costs and activities are typical for conventional and organic producers. Associated Practices: (511) Forage Harvest Management, (512) Forage and Biomass Planting, (590) Nutrient Management, (595) Integrated Pest Management, (561) Heavy Use Area Protection, (382) Fence, (614) Watering Facility, (378) Pond, (642) Water Well, (314) Brush Management, (315) Herbaceous Weed Control, (338) Prescribed Burning.

Scenario Feature Measure:

Scenario Unit: Acre

Scenario Typical Size: 60

Scenario Cost: \$4,435.94

Scenario Cost/Unit: \$73.93

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
Rangeland/grassland field monitoring kit	967	Miscellaneous tools needed to complete rangeland/grassland monitoring. Materials may include camera, clippers, plot frame, scale, tape measure, etc. Includes materials and shipping only.	Each	\$45.96	1	\$45.96
Truck, Pickup	939	Equipment and power unit costs. Labor not included.	Hour	\$34.05	8	\$272.40
Trucking, moving livestock to new paddock	961	Livestock transportation costs to implement a grazing rotation using a gooseneck trailer 6'8" x 24'. Includes equipment, power unit and labor costs.	Mile	\$2.32	50	\$116.00
Foregone Income						
FI, Grazing AUMs	2079	Grazing is the Primary Land Use	AUM	\$15.43	210	\$3,240.30
Labor						
Skilled Labor	230	Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$26.95	16	\$431.20
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	\$20.63	16	\$330.08

Practice: 528 - Prescribed Grazing

Scenario: #10 - Targeted Grazing

Scenario Description:

Defer the pasture for 210 days and up to a growing season to provide rest to specific plants such as native grasses. The rest is needed to provide long-term rest to specific plants that would typically decline in plant health, vigor, and availability due to overgrazing. The importance of long-term deferment is critical to the long term success of the plants and meeting the desired life span.

Before Situation:

Management of woody non-herbaceous plant species through the use of livestock that are closely herded to concentrate grazing on targeted shrubs. Typical area is moderate rolling to gentle sloping, moderately deep to deep soils that have dense stands of woody non-herbaceous species that exceed the desirable ecological site condition. This scenario is an alternative for organic producers.

After Situation:

Woody species are grazed to limit the regrowth of shrubs 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:

Scenario Unit: Acre

Scenario Typical Size: 40

Scenario Cost: \$1,867.60

Scenario Cost/Unit: \$46.69

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
Truck, Pickup	939	Equipment and power unit costs. Labor not included.	Hour	\$34.05	2	\$68.10
Trucking, moving livestock to new paddock	961	Livestock transportation costs to implement a grazing rotation using a gooseneck trailer 6'8" x 24'. Includes equipment, power unit and labor costs.	Mile	\$2.32	50	\$116.00
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	\$20.63	20	\$412.60
Skilled Labor	230	Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.	Hour	\$26.95	2	\$53.90
Materials						
Animals used for biological weed control	1130	Goats, Llamas, Sheep - Includes all support: fence, water, dog, mob, etc. Includes materials and shipping only.	Head per day	\$12.17	100	\$1,217.00