

Practice: 645 - Upland Wildlife Habitat Management

Scenario: #1 - Monitoring and Management, foregone income

Scenario Description:

Setting is grazingland with the potential to provide habitat for species of plants and animals identified as Rare and Declining and the habitat potential is not currently being captured. The identified habitat limiting factors can be restored, enhanced or created, with the application of this practice alone, or in combination with other supporting and facilitating practices. Monitoring will be used to determine if the conservation system meets or exceeds the minimum planning criteria for the targeted wildlife species. Management will be implemented based on the findings of the habitat assessment and monitoring. Habitat management and monitoring needed to treat the resource concerns requires no training, no qualitative data assessment, no water quality monitoring and is low in complexity and intensity. Examples of prescribed monitoring, include but are not limited to: photo points taken, use documentation by livestock, regeneration/breeding success, completing an annual management records log, documenting wildlife sightings, documenting location and species of invasive plants and condition of vegetative and structural treatments. No decision or treatment associated with this practice or facilitating practices will require income foregone. The planner will specify locations and identify the methods to the customer who will implement the monitoring and management plan.

Before Situation:

Existing degraded plant conditions and resulting inadequate habitat for fish and wildlife have resulted in low use of the area by target species identified as Rare and Declining and associated species.

After Situation:

Based on the results of a State-approved upland wildlife habitat assessment process, the application of habitat management efforts and prescribed monitoring have been implemented. With the application of this practice alone, or in combination with other supporting and facilitating practices, the inadequate habitat conditions have been addressed. Monitoring has maximized the benefits of the needed habitat treatment efforts.

Scenario Feature Measure: Acres Managed and Monitored.

Scenario Unit: Acre

Scenario Typical Size: 100

Scenario Cost: \$1,744.71

Scenario Cost/Unit: \$17.45

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
All terrain vehicles, ATV	965	Includes equipment, power unit and labor costs.	Hour	\$31.90	2	\$63.80
Satellite imagery, aerial photography, infrared	966	Infrared imagery	Acre	\$0.16	100	\$16.00
Foregone Income						
FI, Grazing AUMs	2079	Grazing is the Primary Land Use	AUM	\$15.02	100	\$1,502.00
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	\$18.71	5	\$93.55
Materials						
Miscellaneous, containers, traps, etc.	298	Pheromone Traps, Culture container with lid. Includes materials and shipping only.	Each	\$3.90	6	\$23.40

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Scenario: #2 - Greater Prairie-Chicken Habitat Development

Scenario Description:

Field size is 640 acres. Each acre in the treatment unit will be burned only once in three years. Each acre in treatment unit will be burned once within the three year period. This is a monitoring for GPC habitat conditions not a burning scenario. Habitat conditions will be monitored 4 times a year and vegetative data will be collected using percent ground cover within a 30 foot radius plot at 10 locations.

Before Situation:

The grasslands of the Flint Hills region in Kansas, and the area east thereof, are commonly used for early intensive stocking. Annual spring burning of these native warm season range units is common for animal performance benefits. This cultural burning practice does not leave adequate nesting habitat for greater prairie-chicken. Typically the entire acreage is burned annually.

After Situation:

To benefit air quality, plant health and vigor and wildlife habitat, each acre will be burned only once in a three year period. Treatment units are range, pasture, or grazed forest. Nesting habitat for GPC will be developed through limiting burning, and improving habitat based on data collected at the 10 monitoring sites.

Scenario Feature Measure: Area monitored

Scenario Unit: Acre

Scenario Typical Size: 640

Scenario Cost: \$7,192.20

Scenario Cost/Unit: \$11.24

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
All terrain vehicles, ATV	965	Includes equipment, power unit and labor costs.	Hour	\$31.90	100	\$3,190.00
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	\$18.71	80	\$1,496.80
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	\$29.26	60	\$1,755.60
Supervisor or Manager	234	Labor involving supervision or management activities. Includes crew supervisors, foremen and farm/ranch managers time required for adopting new technology, etc.	Hour	\$37.49	20	\$749.80

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Scenario: #3 - Wildlife Habitat Enhancement

Scenario Description:

Exclusion of livestock on 640 acres of rangeland for the enhancement of habitat for wildlife. Includes foregone income.

Before Situation:

Wildlife habitat is grazed during the primary nesting and development periods of targeted wildlife species.

After Situation:

Livestock are excluded for wildlife habitat enhancement for the targeted wildlife species. Implementation includes the exclusion of livestock to allow for adequate regrowth and development of the habitat.

Scenario Feature Measure: Acres Excluded

Scenario Unit: Acre

Scenario Typical Size: 640

Scenario Cost: \$9,687.78

Scenario Cost/Unit: \$15.14

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Foregone Income						
FI, Grazing AUMs	2079	Grazing is the Primary Land Use	AUM	\$15.02	640	\$9,612.80
Labor						
Supervisor or Manager	234	Labor involving supervision or management activities. Includes crew supervisors, foremen and farm/ranch managers time required for adopting new technology, etc.	Hour	\$37.49	2	\$74.98

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Scenario: #4 - Wildlife Habitat Enhancement, former cropland

Scenario Description:

Setting is cropland with the potential to provide habitat for species of plants and animals identified as Rare and Declining and the habitat potential is not currently being captured. The identified habitat limiting factors can be restored, enhanced or created, with the application of this practice alone, or in combination with other supporting and facilitating practices. Monitoring will be used to determine if the conservation system meets or exceeds the minimum planning criteria for the targeted wildlife. Management will be implemented based on the findings of the habitat assessment and monitoring. Habitat management and monitoring needed to treat the resource concerns requires no training, no qualitative data assessment, no water quality monitoring and is low in complexity and intensity. Examples of prescribed monitoring, include but are not limited to: photo points taken, livestock utilization records, regeneration/breeding success, completing an annual management records log, documenting wildlife sightings, documenting location and species of invasive plants and condition of vegetative and structural treatments. The planner will specify locations and identify the methods to the customer who will implement the monitoring and management plan. Includes foregone income. Setting is cropland that will be managed to benefit rare and declining habitats through deferral or seeding to permanent or annual vegetation.

Before Situation:

Existing cropland production of a soybean, corn, and wheat rotation on cropped fields. This creates a degraded plant condition which results in inadequate habitat for fish and wildlife resulting in low use of the area by target species identified as Rare and Declining and associated species.

After Situation:

Based on the results of a State-approved upland wildlife habitat assessment process, the application of habitat management efforts and prescribed monitoring have been implemented. With the application of this practice alone, or in combination with other supporting and facilitating practices, the inadequate habitat conditions have been addressed. Monitoring will highlight the benefits of the habitat treatment efforts.

Scenario Feature Measure: Acres Managed and Monitored

Scenario Unit: Acre

Scenario Typical Size: 100

Scenario Cost: \$17,771.18

Scenario Cost/Unit: \$177.71

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Foregone Income						
Fl, Wheat Dryland	1963	Dryland Wheat is Primary Crop	Acre	\$115.67	33.4	\$3,863.38
Fl, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$144.36	33.3	\$4,807.19
Fl, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$271.04	33.3	\$9,025.63
Labor						
Supervisor or Manager	234	Labor involving supervision or management activities. Includes crew supervisors, foremen and farm/ranch managers time required for adopting new technology, etc.	Hour	\$37.49	2	\$74.98