

**Scenario Worksheet**

**Practice and Scenario Description:**

Information Type	Data
Region	Appalachian
State	North Carolina
Discipline Group	Forestry
Practice Code/Name	472 - Access Control
Scenario ID	2
Scenario Name	Animal exclusion from sensitive areas
Scenario Description	Excluding animals from an area in order to address identified resource concerns. This is for facilitating exclusion of animals to protect or enhance natural resource values. Control will be by temporary electric fencing. Any need for permanent fencing will be planned and installed using the Fence practice (382). Clearing of brush and trees is not necessary. Resource concerns include Wildlife Habitat degradation, Undesirable plant productivity and health, and/or Excessive sediment in surface waters.
Before Practice Situation	Sensitive areas are threatened by the adverse actions of domestic and/or wild animals. The importance of the sensitive areas can include (but are not limited to): wildlife habitat, plant species composition, newly established trees and/or plants, stream bank stability, and/or water quality.
After Practice Situation	Sensitive areas are protected from the adverse actions of domestic and/or wild animals by excluding them from the area.
Scenario Feature Measure	Length of fence
Scenario Unit	Foot
Scenario Typical Size	3600

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$2,810.78	\$0.78
Equipment/Installation	\$105.24	\$0.03
Labor	\$74.68	\$0.02
Mobilization	\$81.75	\$0.02
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$3,072.45	\$0.85

**Cost Details:**

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	21	Electric, Ground Rod Clamps	Electric, Ground Rod Clamps for electric fence	Each	\$2.39	3	\$7.17
Materials	33	Fence, Wire Assembly, High Tensile, Electric, 2 Strand	Brace pins, springs, strainers, battens, clips, crimp sleeves, staples, insulators, wrap around sleeves	Foot	\$0.07	3600	\$252.00
Materials	28	Electric, Energizer, 3-4 joule	Electric, Energizer, 3-4 joule for electric fence	Each	\$195.16	1	\$195.16
Materials	293	Property/Safety Signs	Plastic Fence safety or property sign - Printed on both sides 6 pre-drilled holes for hanging or nailing. 7.5" x 4.75"	Each	\$1.39	35	\$48.65
Materials	7	Wire, Polytape	Wire, Polytape for electric fence. Rolls of 655' to 825'.	Each	\$114.64	3	\$343.92
Materials	10	Post, Wood, CCA treated, 4" x 8'	Wood Post, Line 4" X 8', CCA Treated	Each	\$10.69	4	\$42.76
Materials	26	Electric, Tester	Electric, Tester for electric fence	Each	\$34.60	1	\$34.60
Materials	20	Electric, Ground Rods	Electric, Ground Rod for electric fence	Each	\$12.84	3	\$38.52
Materials	18	Post, Fiberglass, 7/8" X 6'	Fiberglass line post, 7/8" diameter X 6' length	Each	\$9.24	200	\$1,848.00
Equipment/Installation	939	Truck, Pickup	Equipment and power unit costs. Labor not included.	Hour	\$26.31	4	\$105.24
Labor	231	General Labor	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	\$18.67	4	\$74.68
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	\$63.20	1	\$63.20
Mobilization	1142	Mobilization, General labor	Mobilization of general labor: Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$18.55	1	\$18.55

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<b>Information Type</b>	<b>Data</b>
Region	Appalachian
State	North Carolina
Discipline Group	Forestry
Practice Code/Name	472 - Access Control
Scenario ID	5
Scenario Name	Animal exclusion from riparian zone
Scenario Description	Livestock remain excluded by a fence from a riparian area that was previously grazed, in order to protect water quality. Monitoring occurs to ensure development of invasive plants or plants toxic to livestock is detected. In addition, monitoring occurs to ensure impacts of human access does not degrade natural resources. This is for facilitating exclusion of animals to protect or enhance natural resource values. Control will be established using the associated practice 382 Fencing. The primary resource concern is water quality; secondary concern: wildlife habitat. Other associated practices include: 390 Riparian Herbaceous Buffer and 391 Riparian Forest Buffer;
Before Practice Situation	Sensitive areas are threatened by the adverse actions of domestic and/or wild animals. The importance of the sensitive areas can include (but are not limited to): wildlife habitat, plant species composition, newly established trees and/or plants, stream bank stability, and/or water quality.
After Practice Situation	Sensitive areas are protected from the adverse actions of domestic and/or wild animals by excluding them from the area.
Scenario Feature Measure	Area of Riparian zone
Scenario Unit	Acre
Scenario Typical Size	2

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$0.00	\$0.00
Equipment/Installation	\$0.00	\$0.00
Labor	\$18.67	\$9.34
Mobilization	\$0.00	\$0.00
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$30.58	\$15.29
<b>Total</b>	<b>\$49.25</b>	<b>\$24.63</b>

**Cost Details:**

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Labor	231	General Labor	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	\$18.67	1	\$18.67
Foregone Income	2079	FI, Grazing AUMs	Grazing is the Primary Land Use	AUM	\$15.29	2	\$30.58

**Scenario Worksheet**

**Practice and Scenario Description:**

<b>Information Type</b>	<b>Data</b>
Region	Appalachian
State	North Carolina
Discipline Group	Forestry
Practice Code/Name	472 - Access Control
Scenario ID	1
Scenario Name	Trails/Roads access controlled
Scenario Description	Restricting access to the use of forest/farm roads and trails by the use of a gate and limited fencing. Resource concerns include Undesirable plant productivity and health, Concentrated flow erosion, Soil compaction, Excessive sediment in surface waters, and Wildlife habitat degradation.
Before Practice Situation	Roads are damaged or misused, illegal activities occur and/or forest resources are at risk. Extensive amount of fencing (other than that needed to restrict access at the site of ingress) is not included in this scenario, but instead will be planned and installed with the Fence practice (382).
After Practice Situation	Roads are protected, illegal activities are stopped and/or forest resources are secure.
Scenario Feature Measure	Number
Scenario Unit	Each
Scenario Typical Size	1

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$414.78	\$414.78
Equipment/Installation	\$197.22	\$197.22
Labor	\$74.68	\$74.68
Mobilization	\$0.00	\$0.00
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$686.68	\$686.68

**Cost Details:**

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	30	Fence, Wire Assembly, Barbed Wire, 3 Strand	Brace pins, battens, clips, staples	Foot	\$0.16	100	\$16.00
Materials	1226	Concrete mix, bag	Pre-mixed dry concrete mix in 60 pound bag. Materials only.	Each	\$4.79	10	\$47.90
Materials	1057	Gate, Pipe, 12'	6 rail tube gate, 16 gauge	Each	\$168.88	1	\$168.88
Materials	12	Post, Wood, CCA treated, 6" x 8'	Wood Post, End 6" X 8', CCA Treated	Each	\$20.58	4	\$82.32
Materials	1	Wire, Barbed, Galvanized, 12.5 Gauge, 1,320' roll	Galvanized 12.5 gauge, 1,320' roll	Each	\$63.52	1	\$63.52
Materials	9	Post, Wood, CCA treated, 3-4" x 7'	Wood Post, Line 3-4" X 7', CCA Treated	Each	\$9.04	4	\$36.16
Equipment/Installation	934	Auger, Post driver attachment	Auger or post driver attachment to a tractor or skidsteer. Does not include power unit. Labor not included.	Hour	\$7.43	2	\$14.86
Equipment/Installation	939	Truck, Pickup	Equipment and power unit costs. Labor not included.	Hour	\$26.31	4	\$105.24
Equipment/Installation	963	Tractor, agricultural, 60 HP	Agricultural tractor with horsepower range of 50 to 90. Equipment and power unit costs. Labor not included.	Hour	\$19.28	4	\$77.12
Labor	231	General Labor	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	\$18.67	4	\$74.68

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Region	Appalachian
State	North Carolina
Discipline Group	Forestry
Practice Code/Name	472 - Access Control
Scenario ID	7
Scenario Name	Animal exclusion from woodland
Scenario Description	Livestock remain excluded by a fence from a woodland area that was previously grazed, in order to protect water quality. Monitoring occurs to ensure development of invasive plants or plants toxic to livestock is detected. In addition, monitoring occurs to ensure impacts of human access are not degrading natural resources. This is for facilitating exclusion of animals to protect or enhance natural resource values. Control will be established using the associated practice 382 Fencing. The primary resource concern is water quality; secondary concern: wildlife habitat. Other associated practices include: 390 Riparian Herbaceous Buffer and 391 Riparian Forest Buffer;
Before Practice Situation	Sensitive areas are threatened by the adverse actions of domestic and/or wild animals. The importance of the sensitive areas can include (but are not limited to): wildlife habitat, plant species composition, newly established trees and/or plants, stream bank stability, and/or water quality.
After Practice Situation	Sensitive areas are protected from the adverse actions of domestic and/or wild animals by excluding them from the area.
Scenario Feature Measure	Area of Riparian zone
Scenario Unit	Acre
Scenario Typical Size	15

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$0.00	\$0.00
Equipment/Installation	\$0.00	\$0.00
Labor	\$37.34	\$2.49
Mobilization	\$0.00	\$0.00
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$114.68	\$7.65
<b>Total</b>	<b>\$152.02</b>	<b>\$10.13</b>

**Cost Details:**

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Labor	231	General Labor	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	\$18.67	2.0	\$37.34
Foregone Income	2079	FI, Grazing AUMs	Grazing is the Primary Land Use	AUM	\$15.29	7.5	\$114.68