

Scenario Worksheet

Practice and Scenario Description:

Information Type	Data
Region	New England
State	Connecticut
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	Feet
Scenario Typical Size	500

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$764.30	\$1.53
Equipment/Installation	\$106.04	\$0.21
Labor	\$102.84	\$0.21
Mobilization	\$213.44	\$0.43
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$1,186.62	\$2.37

Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	7	Wire, Polytape	Wire, Polytape for electric fence. Rolls of 655' to 825'.	Each	\$114.64	1	\$114.64
Materials	10	Post, Wood, CCA treated, 4" x 8'	Wood Post, Line 4" X 8", CCA Treated	Each	\$10.69	4	\$42.76
Materials	18	Post, Fiberglass, 3/8" X 6'	Fiberglass line post, 3/8" diameter X 6' length	Each	\$9.24	30	\$277.20
Materials	20	Electric, Ground Rods	Electric, Ground Rod for electric fence	Each	\$12.84	3	\$38.52
Materials	21	Electric, Ground Rod Clamps	Electric, Ground Rod Clamps for electric fence	Each	\$2.39	3	\$7.17
Materials	26	Electric, Tester	Electric, Tester for electric fence	Each	\$34.60	1	\$34.60
Materials	28	Electric, Energizer, 3-4 joule	Electric, Energizer, 3-4 joule for electric fence	Each	\$195.16	1	\$195.16
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	80	\$5.60
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
Equipment/Installation	939	Truck, Pickup	Equipment and power unit costs. Labor not included.	Hour	\$26.51	4	\$106.04
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	\$25.71	4	\$102.84
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	1142	Mobilization, General labor	Mobilization of general labor: Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$26.21	1	\$26.21

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Information Type	Data
Region	New England
State	Connecticut
Discipline Group	Forestry
Practice Code/Name	472 - Access Control
Scenario ID	6
Scenario Name	BioSecurity Access Control
Scenario Description	Restricting access in the use of farm roads by the use of signage, a gate and limited fencing. A well-constructed and maintained operation strengthens a biosecurity plan by aiding cleaning and disinfection processes and by reducing the risks associated with visitors, service personnel, and pests. Resource concerns include Domestic Animals - Stress and Mortality.
Before Practice Situation	People, vehicles and equipment entering and moving unrestricted within the farm pose a serious biosecurity threat; they can carry pests, soil, and crop debris. The risk is increased with shared, contracted, and second-hand vehicles and equipment, due to their use on other farms with unknown biosecurity status. Care must also be taken with people's activities, non-agricultural vehicles and equipment that must travel within the farm (e.g. earth-moving equipment, gas exploration equipment, utility service vehicles).
After Practice Situation	Access of people and vehicles is controlled aiding in the cleaning and disinfection processes and by reducing the risks associated with visitors, service personnel, and pests.
Scenario Feature Measure	
Scenario Unit	Foot
Scenario Typical Size	50

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$1,565.66	\$31.31
Equipment/Installation	\$304.18	\$6.08
Labor	\$411.36	\$8.23
Mobilization	\$187.23	\$3.74
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$2,468.43	\$49.37

Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
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
Materials	12	Post, Wood, CCA treated, 6" x 8'	Wood Post, End 6" X 8', CCA Treated	Each	\$20.58	4	\$82.32
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	10	\$13.90
Materials	1057	Gate, Pipe, 12'	6 rail tube gate, 16 gauge	Each	\$168.88	1	\$168.88
Materials	1079	Fence, Chain Link	Fence, Chain Link, 5' High, 9ga Wire, Posts in Concrete on 10' Centers	Foot	\$24.33	50	\$1,216.50
Materials	1226	Concrete mix, bag	Pre-mixed dry concrete mix in 60 pound bag. Materials only.	Each	\$4.79	10	\$47.90
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	\$7.49	2	\$14.98
Equipment/Installation	939	Truck, Pickup	Equipment and power unit costs. Labor not included.	Hour	\$26.51	8	\$212.08
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	\$25.71	16	\$411.36
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

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Region	New England
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Discipline Group	Forestry
Practice Code/Name	472 - Access Control
Scenario ID	5
Scenario Name	Hibernaculum Bat Gate
Scenario Description	Installation of a gate to control access to caves and other natural formation that provide bat roosting and hibernation sites. Bats are most vulnerable when they are hibernating. Human intrusion stirs and wakes up the bats, causing them to deplete their fat supplies at an accelerated rate and reducing their chances of surviving the winter. Gating hibernacula entrances to prevent trespass is one of the chief measures of protecting bat species. Additionally, gates prevent human access to dangerous and unstable mines, reducing chances of serious accidents. Gates allow bats to pass through, don't interfere with air circulation, and prevent unauthorized access.
Before Practice Situation	Caves and other natural formations that provide roosting and hibernating habitat have can be accessed during all times of the years. Access by humans for recreation disturbs the bats during critical life cycles. This can cause a decrease in population of these important animals.
After Practice Situation	Hibernaculum gates are are installed to control access to important bat roosting and hibernating sites. The controlled access will help protect the colonies of bats
Scenario Feature Measure	
Scenario Unit	Square Foot
Scenario Typical Size	100

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$6,922.39	\$69.22
Equipment/Installation	\$0.00	\$0.00
Labor	\$0.00	\$0.00
Mobilization	\$654.42	\$6.54
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$7,576.81	\$75.77

Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
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	1	\$1.39
Materials	1129	Bat Gate	Bat Gate Assembly, Includes materials, equipment and labor.	Square Foot	\$69.21	100	\$6,921.00
Mobilization	1043	Mobilization, Material, distance > 50 miles	Mobilization cost of materials for special cases where the distance from the supplier delivery point to the job site exceeds 50 miles. The costs for shipping by UPS or bulk freight shipping to a location within 50 miles of the job site have already been included in the component price.	Dollar	\$1.00	500	\$500.00
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	2	\$78.46

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Practice and Scenario Description:

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Region	New England
State	Connecticut
Discipline Group	Forestry
Practice Code/Name	472 - Access Control
Scenario ID	4
Scenario Name	Navigational Delineation
Scenario Description	Marine bivalve aquaculture operations located in tidal and subtidal working waters that are controlled or selected environments leased from local authorities. Growing areas average 2 acres in size and are typically sited in close proximity to other aquaculture operations/facilities, and interface with other resource uses including public boating and swimming. Resource concerns include water quality degradation, animal health and vigor, TRES hazard, and potential human life endangerment from maine navigational hazards and potential boat strikes causing damaged/escaped gear and petrochemical spills released into the marine environment.
Before Practice Situation	Shellfish aquaculture operations are located in tidal and subtidal working waters that are controlled or selected environments leased from local authorities, the shellfish beds average 2 acres in size and are typically sited in close proximity to other aquaculture operations/facilities, and interface with other resource uses including public boating and swimming. The danger of boats or swimmers accidentally coming in contact with shellfish beds is much greater if beds are not delineated with navigational boundaries.
After Practice Situation	Shellfish producer shall install standard navigational delineation devices to mark the boundaries of shellfish growing areas to avoid boat strikes, petrochemical spills, and accidental intrusions by small craft (kayaks) or swimmers.
Scenario Feature Measure	Buoy/rope system for delineation
Scenario Unit	Each
Scenario Typical Size	1

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$421.84	\$421.84
Equipment/Installation	\$0.00	\$0.00
Labor	\$102.84	\$102.84
Mobilization	\$187.23	\$187.23
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$711.91	\$711.91

Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	2037	Buoy	20" inflatable polyform ball. Material and shipping only.	Each	\$84.08	4	\$336.32
Materials	2038	Buoy tether	3/8" polypropylene line (marine quality). Material and shipping only.	Foot	\$0.29	200	\$58.00
Materials	2040	Screw Pin Anchor Shackles, Galvanize-Steel, 1/4"	Tether connectors for buoy and anchor. Material and shipping only.	Each	\$3.44	8	\$27.52
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	\$25.71	4	\$102.84
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

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Practice and Scenario Description:

Information Type	Data
Region	New England
State	Connecticut
Discipline Group	Forestry
Practice Code/Name	472 - Access Control
Scenario ID	3
Scenario Name	Forest/Farm Access Control
Scenario Description	Restricting human access to a field/farm/property through use of signage and other markings. Resource concerns include Undesirable plant productivity and health, Excessive sediment in surface waters, Concentrated flow erosion, and Wildlife habitat degradation.
Before Practice Situation	A 20 acre tract (field, farm, forests, etc.) is being damaged or misused by illegal activities that put the resources/property at risk or needs controlled access due to an active management operation such as pest management or timber harvesting. The perimeter needs marking with paint (at 100 foot intervals) and signs at points of ingress. Surveying is not necessary.
After Practice Situation	The property is adequately marked and protected, illegal activities are stopped and/or forest resources are secure.
Scenario Feature Measure	
Scenario Unit	Feet
Scenario Typical Size	1500

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$52.98	\$0.04
Equipment/Installation	\$106.04	\$0.07
Labor	\$102.84	\$0.07
Mobilization	\$26.21	\$0.02
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$288.07	\$0.19

Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
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	2	\$2.78
Materials	313	Tree Marking Paint	Trees to be cut through tree marking are physically identified through the application of paint on the tree. Typically one quart of paint is used to mark one acre of trees.	Acre	\$5.02	10	\$50.20
Equipment/Installation	939	Truck, Pickup	Equipment and power unit costs. Labor not included.	Hour	\$26.51	4	\$106.04
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	\$25.71	4	\$102.84
Mobilization	1142	Mobilization, General labor	Mobilization of general labor: Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$26.21	1	\$26.21

Scenario Worksheet

Practice and Scenario Description:

Information Type	Data
Region	New England
State	Connecticut
Discipline Group	Forestry
Practice Code/Name	472 - Access Control
Scenario ID	1
Scenario Name	Trails/Roads Access Control
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	\$198.14	\$198.14
Labor	\$102.84	\$102.84
Mobilization	\$0.00	\$0.00
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$715.76	\$715.76

Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
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
Materials	12	Post, Wood, CCA treated, 6" x 8'	Wood Post, End 6" X 8', CCA Treated	Each	\$20.58	4	\$82.32
Materials	30	Fence, Wire Assembly, Barbed Wire, 3 Strand	Brace pins, battens, clips, staples	Foot	\$0.16	100	\$16.00
Materials	1057	Gate, Pipe, 12'	6 rail tube gate, 16 gauge	Each	\$168.88	1	\$168.88
Materials	1226	Concrete mix, bag	Pre-mixed dry concrete mix in 60 pound bag. Materials only.	Each	\$4.79	10	\$47.90
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	\$7.49	2	\$14.98
Equipment/Installation	939	Truck, Pickup	Equipment and power unit costs. Labor not included.	Hour	\$26.51	4	\$106.04
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	\$25.71	4	\$102.84