

Practice: 649 - Structures for Wildlife

Scenario: #1 - Nesting Box, Small no pole

Scenario Description:

A structure is provided to support the nesting and rearing of smaller targeted species, such as bees and small birds, and is directly mounted to a tree, building or other structure. Addresses resource concern for wildlife of inadequate cover/shelter

Before Situation:

The area lacks sufficient nesting habitat sites (natural cavities). A suitable location to mount the box is available.

After Situation:

The installation of nesting and rearing boxes support the life-cycle needs of targeted species, such as small birds. These structures/features enhance habitat, cover, and improve species survivability. Small nest boxes have less than a 12" depth.

Scenario Feature Measure: Number of structures

Scenario Unit: Each

Scenario Typical Size: 1

Scenario Cost: \$42.73

Scenario Cost/Unit: \$42.73

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
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	\$24.48	0.5	\$12.24
Materials						
Habitat Box, Bird	251	Bluebird nesting box to increase nesting success. Each is 1-1/2" x 6" x 12-1/2" w/ 1-1/2" diameter opening. Includes materials and shipping.	Each	\$30.49	1	\$30.49

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Scenario: #2 - Nesting Box, Small, with wood pole

Scenario Description:

Constructing a small nest box and mounting on a pole. A structure is provided to support the nesting and rearing of targeted species, such as blue birds. Trees, buildings or other structures are not available. These structures are designed to meet targeted species biology and life history needs. Addresses Resource Concern: Inadequate Cover/Shelter.

Before Situation:

This area lacked sufficient nesting sites to support viable populations of targeted species.

After Situation:

The installation nesting and rearing boxes support the life-cycle needs of targeted species, such as blue birds. Predator guards are required. These structures/features enhance habitat, cover, and improve species survivability. Small nest boxes have less than a 12" depth.

Scenario Feature Measure: Number of structures with poles.

Scenario Unit: Number

Scenario Typical Size: 1

Scenario Cost: \$63.81

Scenario Cost/Unit: \$63.81

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
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	\$24.48	0.75	\$18.36
Materials						
Post, Wood, CCA treated, 6" x 8'	12	Wood Post, End 6" X 8', CCA Treated. Includes materials and shipping only.	Each	\$14.96	1	\$14.96
Habitat Box, Bird	251	Bluebird nesting box to increase nesting success. Each is 1-1/2" x 6" x 12-1/2" w/ 1-1/2" diameter opening. Includes materials and shipping.	Each	\$30.49	1	\$30.49

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Scenario: #3 - Nesting Box, Large

Scenario Description:

A structure is provided to support the nesting and rearing of larger targeted species such as waterfowl or owls. The box is directly mounted to a tree, building or other structure. These structures are designed to meet targeted species biology and life history needs. Addresses Resource Concern: Inadequate Cover/Shelter.

Before Situation:

The area lacks sufficient overall habitat conditions to support viable populations of targeted species. A suitable location to mount the box is available. Predator guards not needed.

After Situation:

The installation of nesting and rearing boxes support the life-cycle needs of targeted species, such as birds, bats and pollinators. Because of suitable location and conditions the nesting box can be directly mounted such as on a tree or building, thereby eliminating the need for mounting poles and predator guards. Species such as cavity dwelling birds and pollinators use this approach, but this treatment is not limited to those species. These structures/features enhance habitat, cover, and improve species survivability. Large nest boxes have 12" or greater depth.

Scenario Feature Measure: Number of structures.

Scenario Unit: Each

Scenario Typical Size: 1

Scenario Cost: \$83.79

Scenario Cost/Unit: \$83.79

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
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	\$24.48	0.5	\$12.24
Materials						
Habitat Box, waterfowl	1449	Wood Duck Box, typically 24" x 11" x 12" with 4" wide oval entrance, single. Includes material and shipping only.	Each	\$71.55	1	\$71.55

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Scenario: #4 - Nesting Box or Raptor Perch, Large, with Pole

Scenario Description:

Constructing a nest box or raptor perch on a steel pole with a predator guard where needed. A structure is provided to support the nesting and rearing of larger targeted species such as wood ducks, bats, barn owls or to provide needed perches or nesting structures for raptors. Addresses Resource Concern: Inadequate Cover/Shelter.

Before Situation:

The area lacks sufficient overall nesting sites to support viable populations of targeted species. Predator guards provide needed protection of target species during nesting and rearing.

After Situation:

The installation of pole mounted nesting and rearing boxes support the life-cycle needs of targeted species, such as bats and waterfowl. Large nest boxes have 12" or greater depth.

Scenario Feature Measure: Number of structures

Scenario Unit: Each

Scenario Typical Size: 1

Scenario Cost: \$376.81

Scenario Cost/Unit: \$376.81

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	\$31.47	0.5	\$15.74
Concrete, CIP, formless, non reinforced	36	Non reinforced concrete cast-in-placed without forms by chute placement. Typical strength is 3000 to 4000 psi. Includes materials, labor and equipment to transport, place and finish.	Cubic yard	\$158.17	0.1	\$15.82
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	\$24.48	1.5	\$36.72
Materials						
Predator Guard	1461	Predator guards (i.e. stove pipes, cone, hole guard, etc.) for habitat boxes. Materials only. Includes material and shipping only.	Each	\$29.29	1	\$29.29
Habitat Box, waterfowl	1449	Wood Duck Box, typically 24" x 11" x 12" with 4" wide oval entrance, single. Includes material and shipping only.	Each	\$71.55	1	\$71.55
Pipe, steel, galvanized, threaded, 1 1/4", schedule 40	256	Spec. A-53, includes coupling and clevis hanger assembly sized for covering, 10' OC	Foot	\$20.77	10	\$207.70

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Scenario: #5 - Brush Pile - Large

Scenario Description:

Downed tree structures are created to provide shrubby/woody escape cover for wildlife. Felling of select trees and placement in selected locations to provide wildlife cover. Typical scenario with a maximum size of 6 to 20' on a side and 4 to 8' high. See Brush Pile Job Sheet for construction design and additional requirements.

Before Situation:

The existing habitat lacks escape, ground nesting and safe loafing cover.

After Situation:

Large brush piles provide needed escape, ground nesting and safe loafing cover for targeted wildlife species.

Scenario Feature Measure: brush piles

Scenario Unit: Each

Scenario Typical Size: 1

Scenario Cost: \$148.53

Scenario Cost/Unit: \$148.53

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
Chainsaw	937	Equipment and power unit costs. Labor not included.	Hour	\$6.46	1	\$6.46
Skidsteer, 80 HP	933	Skidsteer loader with horsepower range of 60 to 90. Equipment and power unit costs. Labor not included.	Hour	\$44.33	1	\$44.33
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	\$24.48	3	\$73.44
Equipment Operators, Light	232	Includes: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers	Hour	\$24.30	1	\$24.30

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Scenario: #6 - Bat House - Large, Single Chamber

Scenario Description:

A single chamber large bat house (preferably built to Bat Conservation International's design standards) to support the roosting and rearing of approximately 50 colonial roosting bats and is directly mounted to a tree, building or other structure. Typically boxes are placed 12 to 15 feet from the ground with a south or southeast aspect and within 1/4 mile of water. Addresses resource concern for wildlife of inadequate cover/shelter.

Before Situation:

The area lacks sufficient summer roosting habitat (smags, cavity trees, trees with cracks or exfoliating bark) for bats, and a suitable location to mount the box is available.

After Situation:

The installation of such structures supports the life-cycle needs of many bat species. These structures/features enhance habitat, cover, and improve species survivability.

Scenario Feature Measure: Number of structures

Scenario Unit: Each

Scenario Typical Size: 1

Scenario Cost: \$141.30

Scenario Cost/Unit: \$141.30

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
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	\$24.48	2.5	\$61.20
Materials						
Post, Wood, CCA treated, 6" x 12-14'	13	Wood Post, Line/End 6" X 12-14', CCA Treated. Includes materials and shipping only.	Each	\$26.73	1	\$26.73
Habitat Box, Bat	246	BAT-1 Bat House Single. Includes materials and shipping.	Each	\$53.37	1	\$53.37

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Scenario: #7 - 3-Chamber Bat House

Scenario Description:

A 3-chamber bat house (preferably built to Bat Conservation International's design standards) to support the roosting and rearing of approximately 200 colonial roosting bats and is directly mounted to a tree, building or other structure. Typically boxes are placed 12 to 15 feet from the ground with a south or southeast aspect and within 1/4 mile of water. Addresses resource concern for wildlife of inadequate cover/shelter.

Before Situation:

The area lacks sufficient summer roosting habitat (smags, cavity trees, trees with cracks or exfoliating bark) for bats, and a suitable location to mount the box is available.

After Situation:

The installation of such structures supports the life-cycle needs of many bat species. These structures/features enhance habitat, cover, and improve species survivability.

Scenario Feature Measure: Number of Structures

Scenario Unit: Each

Scenario Typical Size: 1

Scenario Cost: \$186.21

Scenario Cost/Unit: \$186.21

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
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	\$24.48	2.5	\$61.20
Materials						
Post, Wood, CCA treated, 6" x 12-14'	13	Wood Post, Line/End 6" X 12-14', CCA Treated. Includes materials and shipping only.	Each	\$26.73	2	\$53.46
Habitat Box, waterfowl	1449	Wood Duck Box, typically 24" x 11" x 12" with 4" wide oval entrance, single. Includes material and shipping only.	Each	\$71.55	1	\$71.55

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Scenario: #8 - Osprey/Eagle Nesting Platform

Scenario Description:

A structure is provided to support the nesting and rearing of targeted species such as Ospreys found nesting in coastal areas. These structures are designed to meet targeted species biology and life history needs.

Before Situation:

These structures are targeted for areas that lack sufficient nesting sites to support viable populations of targeted species that nest along coastal estuaries and large water bodies or utilize nesting site such as poles that support high voltage lines that can be a hazard to these birds.

After Situation:

The installation of pole and nesting platform supports the life-cycle needs of targeted species, such as Ospreys and other types of raptors that nest along coastal estuaries and large water bodies. These structures/features enhance habitat, cover, and reduce predation. .

Scenario Feature Measure:

Scenario Unit: Each

Scenario Typical Size: 1

Scenario Cost: \$1,098.30

Scenario Cost/Unit: \$1,098.30

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
<i>Materials</i>						
Pole, Utility, Nesting Platform	2048	Fabrication and installation of avian nesting platform. Includes all equipment, labor and material needed to install utility pole with a nesting platform.	Foot	\$36.61	30	\$1,098.30