

Practice: 422 - Hedgerow Planting

Scenario: #1 - 3 row hedgerow, container planting stock

Scenario Description:

Three rows of bare-root trees, shrubs or a combination of trees and shrubs are planted for wildlife habitat (corridor), pollinator habitat, reduction of particulate matter, chemical drift, or odor movement, and boundary delineation and contour guidelines. This practice is typically applied on cropland. Trees and/or shrubs will be planted into previously established bunch grasses that produce erect stems greater than 3' in height and will persist over winter. This herbaceous component will be established according to the guidelines in 327 Conservation Cover. Payment includes materials, labor and equipment needed to machine plant the stock and foregone income for land removed from crop production where hedgerow is installed. Site preparation is not included and must be implemented through associated practice 490 Tree/Shrub Site Preparation. Additional associated practices may include: 315 Herbaceous Weed Control, 660 Tree/Shrub Pruning, 484 Mulching

Before Situation:

Habitat patches lack connectivity. Cover is inadequate to allow wildlife to exploit cropland food resources. Berries and mast are limited.

After Situation:

Inadequate habitat for fish and wildlife is addressed for needs identified in the resource assessment. Habitat patches are connected by dense hedgerow vegetation. Food resources in crop fields are made available by their proximity to hedgerow cover. Planting may include fruit and mast bearing species, improving food supply, depending on needs being addressed.

Scenario Feature Measure: length of hedgerow

Scenario Unit: Feet

Scenario Typical Size: 500

Scenario Cost: \$1,680.23

Scenario Cost/Unit: \$3.36

Cost Details (by category):

| Component Name | ID | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|---|------|--|------|-----------------|----------|----------|
| Equipment/Installation | | | | | | |
| Hand tools, tree planting | 1590 | Various hand tools for digging holes and planting trees such as augers, dibble bars, planting shovel, hoe-dad. Equipment only. Labor not included. | Hour | \$11.62 | 12 | \$139.44 |
| Foregone Income | | | | | | |
| Fl, Corn Dryland | 1959 | Dryland Corn is Primary Crop | Acre | \$437.76 | 0.3 | \$131.33 |
| Fl, Soybeans Dryland | 1961 | Dryland Soybeans is Primary Crop | Acre | \$430.43 | 0.3 | \$129.13 |
| 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 | \$20.32 | 12 | \$243.84 |
| Materials | | | | | | |
| Tree, hardwood, seedling or transplant, potted, 1/2 to 1 gal. | 1531 | Potted hardwood tree, 1/2 to 1 gal. Includes materials and shipping only. | Each | \$4.84 | 100 | \$484.00 |
| Shrub, seedling or transplant, potted, 1/2 to 1 gal. | 1526 | Potted shrub, 1/2 to 1 gal. Includes materials and shipping only. | Each | \$4.81 | 100 | \$481.00 |
| Mobilization | | | | | | |
| Mobilization, very small equipment | 1137 | 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 | \$71.49 | 1 | \$71.49 |

Practice: 422 - Hedgerow Planting

Scenario: #2 - 1 row hedgerow, container trees planting stock

Scenario Description:

One row of container trees planted for wildlife habitat (corridor), pollinator habitat, reduction of particulate matter, chemical drift, or odor movement, and boundary delineation and contour guidelines. This practice is typically applied on cropland. Trees and/or shrubs will be planted into previously established bunch grasses that produce erect stems greater than 3' in height and will persist over winter. This herbaceous component will be established according to the guidelines in 327 Conservation Cover. Payment includes materials, labor and equipment needed to hand plant the stock and foregone income for land removed from crop production where hedgerow is installed. Site preparation is not included and must be implemented through associated practice 490 Tree/Shrub Site Preparation. Additional associated practices may include: 315 Herbaceous Weed Control, 660 Tree/Shrub Pruning, 484 Mulching

Before Situation:

Habitat patches lack connectivity. Cover is inadequate to allow wildlife to exploit cropland food resources. Berries and mast are limited.

After Situation:

Inadequate habitat for fish and wildlife is addressed for needs identified in the resource assessment. Habitat patches are connected by dense hedgerow vegetation. Food resources in crop fields are made available by their proximity to hedgerow cover. Planting may include fruit and mast bearing species, improving food supply, depending on needs being addressed.

Scenario Feature Measure: length of hedgerow

Scenario Unit: Feet

Scenario Typical Size: 500

Scenario Cost: \$509.15

Scenario Cost/Unit: \$1.02

Cost Details (by category):

| Component Name | ID | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|---|------|--|------|-----------------|----------|----------|
| Equipment/Installation | | | | | | |
| Hand tools, tree planting | 1590 | Various hand tools for digging holes and planting trees such as augers, dibble bars, planting shovel, hoe-dad. Equipment only. Labor not included. | Hour | \$11.62 | 3 | \$34.86 |
| Foregone Income | | | | | | |
| FI, Corn Dryland | 1959 | Dryland Corn is Primary Crop | Acre | \$437.76 | 0.115 | \$50.34 |
| FI, Soybeans Dryland | 1961 | Dryland Soybeans is Primary Crop | Acre | \$430.43 | 0.115 | \$49.50 |
| 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 | \$20.32 | 3 | \$60.96 |
| Materials | | | | | | |
| Tree, hardwood, seedling or transplant, potted, 1/2 to 1 gal. | 1531 | Potted hardwood tree, 1/2 to 1 gal. Includes materials and shipping only. | Each | \$4.84 | 50 | \$242.00 |
| Mobilization | | | | | | |
| Mobilization, very small equipment | 1137 | 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 | \$71.49 | 1 | \$71.49 |

Practice: 422 - Hedgerow Planting

Scenario: #3 - 1 row hedgerow, container shrubs planting stock

Scenario Description:

One row of container shrubs planted for wildlife habitat (corridor), pollinator habitat, reduction of particulate matter, chemical drift, or odor movement, and boundary delineation and contour guidelines. This practice is typically applied on cropland. Trees and/or shrubs will be planted into previously established bunch grasses that produce erect stems greater than 3' in height and will persist over winter. This herbaceous component will be established according to the guidelines in 327 Conservation Cover. Payment includes materials, labor and equipment needed to hand plant the stock and foregone income for land removed from crop production where hedgerow is installed. Site preparation is not included and must be implemented through associated practice 490 Tree/Shrub Site Preparation. Additional associated practices may include: 315 Herbaceous Weed Control, 660 Tree/Shrub Pruning, 484 Mulching

Before Situation:

Habitat patches lack connectivity. Cover is inadequate to allow wildlife to exploit cropland food resources. Berries and mast are limited.

After Situation:

Inadequate habitat for fish and wildlife is addressed for needs identified in the resource assessment. Habitat patches are connected by dense hedgerow vegetation. Food resources in crop fields are made available by their proximity to hedgerow cover. Planting may include fruit and mast bearing species, improving food supply, depending on needs being addressed.

Scenario Feature Measure: length of hedgerow

Scenario Unit: Feet

Scenario Typical Size: 500

Scenario Cost: \$843.97

Scenario Cost/Unit: \$1.69

Cost Details (by category):

| Component Name | ID | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|--|------|--|------|-----------------|----------|----------|
| Equipment/Installation | | | | | | |
| Hand tools, tree planting | 1590 | Various hand tools for digging holes and planting trees such as augers, dibble bars, planting shovel, hoe-dad. Equipment only. Labor not included. | Hour | \$11.62 | 6 | \$69.72 |
| Foregone Income | | | | | | |
| FI, Corn Dryland | 1959 | Dryland Corn is Primary Crop | Acre | \$437.76 | 0.115 | \$50.34 |
| FI, Soybeans Dryland | 1961 | Dryland Soybeans is Primary Crop | Acre | \$430.43 | 0.115 | \$49.50 |
| 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 | \$20.32 | 6 | \$121.92 |
| Materials | | | | | | |
| Shrub, seedling or transplant, potted, 1/2 to 1 gal. | 1526 | Potted shrub, 1/2 to 1 gal. Includes materials and shipping only. | Each | \$4.81 | 100 | \$481.00 |
| Mobilization | | | | | | |
| Mobilization, very small equipment | 1137 | 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 | \$71.49 | 1 | \$71.49 |

Practice: 422 - Hedgerow Planting

Scenario: #4 - 3 row hedgerow, bare-root seedling planting stock

Scenario Description:

Three rows of bare-root trees, shrubs or a combination of trees and shrubs are planted for wildlife habitat (corridor), pollinator habitat, reduction of particulate matter, chemical drift, or odor movement, and boundary delineation and contour guidelines. This practice is typically applied on cropland. Trees and/or shrubs will be planted into previously established bunch grasses that produce erect stems greater than 3' in height and will persist over winter. This herbaceous component will be established according to the guidelines in 327 Conservation Cover. Payment includes materials, labor and equipment needed to machine plant the stock and foregone income for land removed from crop production where hedgerow is installed. Site preparation is not included and must be implemented through associated practice 490 Tree/Shrub Site Preparation. Additional associated practices may include: 315 Herbaceous Weed Control, 660 Tree/Shrub Pruning, 484 Mulching

Before Situation:

Habitat patches lack connectivity. Cover is inadequate to allow wildlife to exploit cropland food resources. Berries and mast are limited.

After Situation:

Inadequate habitat for fish and wildlife is addressed for needs identified in the resource assessment. Habitat patches are connected by dense hedgerow vegetation. Food resources in crop fields are made available by their proximity to hedgerow cover. Planting may include fruit and mast bearing species, improving food supply, depending on needs being addressed.

Scenario Feature Measure: length of hedgerow

Scenario Unit: Feet

Scenario Typical Size: 500

Scenario Cost: \$687.06

Scenario Cost/Unit: \$1.37

Cost Details (by category):

| Component Name | ID | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|---|------|--|------|-----------------|----------|----------|
| Equipment/Installation | | | | | | |
| Tractor, agricultural, 60 HP | 963 | Agricultural tractor with horsepower range of 50 to 90. Equipment and power unit costs. Labor not included. | Hour | \$23.74 | 2 | \$47.48 |
| Mechanical tree planter | 1600 | Mechanical tree planter. Requires a pulling unit of either tractor or small dozer depending upon site conditions. Does not include labor. | Hour | \$6.60 | 2 | \$13.20 |
| Foregone Income | | | | | | |
| FI, Corn Dryland | 1959 | Dryland Corn is Primary Crop | Acre | \$437.76 | 0.3 | \$131.33 |
| FI, Soybeans Dryland | 1961 | Dryland Soybeans is Primary Crop | Acre | \$430.43 | 0.3 | \$129.13 |
| Labor | | | | | | |
| Equipment Operators, Light | 232 | Includes: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers | Hour | \$22.08 | 2 | \$44.16 |
| 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 | \$20.32 | 2 | \$40.64 |
| Materials | | | | | | |
| Tree, hardwood, seedling or transplant, bare root, 16-36" | 1510 | Bare root hardwood trees 18-36" tall. Includes materials and shipping only. | Each | \$0.60 | 100 | \$60.00 |
| Shrub, seedling or transplant, bare root, 6-18" | 1506 | Bare root hardwood trees 6-18" tall. Includes materials and shipping only. | Each | \$0.47 | 100 | \$47.00 |
| Mobilization | | | | | | |
| Mobilization, small equipment | 1138 | 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 | \$174.12 | 1 | \$174.12 |

Practice: 422 - Hedgerow Planting

Scenario: #5 - 1 row hedgerow, bare-root tree seedling planting stock

Scenario Description:

One row of bare-root trees planted for wildlife habitat (corridor), pollinator habitat, reduction of particulate matter, chemical drift, or odor movement, and boundary delineation and contour guidelines. This practice is typically applied on cropland. Trees and/or shrubs will be planted into previously established bunch grasses that produce erect stems greater than 3' in height and will persist over winter. This herbaceous component will be established according to the guidelines in 327 Conservation Cover. Payment includes materials, labor and equipment needed to machine plant the stock and foregone income for land removed from crop production where hedgerow is installed. Site preparation is not included and must be implemented through associated practice 490 Tree/Shrub Site Preparation. Additional associated practices may include: 315 Herbaceous Weed Control, 660 Tree/Shrub Pruning, 484 Mulching

Before Situation:

Habitat patches lack connectivity. Cover is inadequate to allow wildlife to exploit cropland food resources. Berries and mast are limited.

After Situation:

Inadequate habitat for fish and wildlife is addressed for needs identified in the resource assessment. Habitat patches are connected by dense hedgerow vegetation. Food resources in crop fields are made available by their proximity to hedgerow cover. Planting may include fruit and mast bearing species, improving food supply, depending on needs being addressed.

Scenario Feature Measure: length of hedgerow

Scenario Unit: Feet

Scenario Typical Size: 500

Scenario Cost: \$166.21

Scenario Cost/Unit: \$0.33

Cost Details (by category):

| Component Name | ID | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|---|------|--|------|-----------------|----------|---------|
| Equipment/Installation | | | | | | |
| Mechanical tree planter | 1600 | Mechanical tree planter. Requires a pulling unit of either tractor or small dozer depending upon site conditions. Does not include labor. | Hour | \$6.60 | 0.5 | \$3.30 |
| Tractor, agricultural, 60 HP | 963 | Agricultural tractor with horsepower range of 50 to 90. Equipment and power unit costs. Labor not included. | Hour | \$23.74 | 0.5 | \$11.87 |
| Foregone Income | | | | | | |
| FI, Soybeans Dryland | 1961 | Dryland Soybeans is Primary Crop | Acre | \$430.43 | 0.115 | \$49.50 |
| FI, Corn Dryland | 1959 | Dryland Corn is Primary Crop | Acre | \$437.76 | 0.115 | \$50.34 |
| Labor | | | | | | |
| Equipment Operators, Light | 232 | Includes: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers | Hour | \$22.08 | 0.5 | \$11.04 |
| 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 | \$20.32 | 0.5 | \$10.16 |
| Materials | | | | | | |
| Tree, hardwood, seedling or transplant, bare root, 16-36" | 1510 | Bare root hardwood trees 18-36" tall. Includes materials and shipping only. | Each | \$0.60 | 50 | \$30.00 |

Practice: 422 - Hedgerow Planting

Scenario: #6 - 1 row hedgerow, bare-root shrub seedling planting stock

Scenario Description:

One row of bare-root shrubs planted for wildlife habitat (corridor), pollinator habitat, reduction of particulate matter, chemical drift, or odor movement, and boundary delineation and contour guidelines. This practice is typically applied on cropland. Trees and/or shrubs will be planted into previously established bunch grasses that produce erect stems greater than 3' in height and will persist over winter. This herbaceous component will be established according to the guidelines in 327 Conservation Cover. Payment includes materials, labor and equipment needed to machine plant the stock and foregone income for land removed from crop production where hedgerow is installed. Site preparation is not included and must be implemented through associated practice 490 Tree/Shrub Site Preparation. Additional associated practices may include: 315 Herbaceous Weed Control, 660 Tree/Shrub Pruning, 484 Mulching

Before Situation:

Habitat patches lack connectivity. Cover is inadequate to allow wildlife to exploit cropland food resources. Berries and mast are limited.

After Situation:

Inadequate habitat for fish and wildlife is addressed for needs identified in the resource assessment. Habitat patches are connected by dense hedgerow vegetation. Food resources in crop fields are made available by their proximity to hedgerow cover. Planting may include fruit and mast bearing species, improving food supply, depending on needs being addressed.

Scenario Feature Measure: length of hedgerow

Scenario Unit: Feet

Scenario Typical Size: 500

Scenario Cost: \$230.58

Scenario Cost/Unit: \$0.46

Cost Details (by category):

| Component Name | ID | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|---|------|--|------|-----------------|----------|---------|
| Equipment/Installation | | | | | | |
| Tractor, agricultural, 60 HP | 963 | Agricultural tractor with horsepower range of 50 to 90. Equipment and power unit costs. Labor not included. | Hour | \$23.74 | 1 | \$23.74 |
| Mechanical tree planter | 1600 | Mechanical tree planter. Requires a pulling unit of either tractor or small dozer depending upon site conditions. Does not include labor. | Hour | \$6.60 | 1 | \$6.60 |
| Foregone Income | | | | | | |
| FI, Soybeans Dryland | 1961 | Dryland Soybeans is Primary Crop | Acre | \$430.43 | 0.115 | \$49.50 |
| FI, Corn Dryland | 1959 | Dryland Corn is Primary Crop | Acre | \$437.76 | 0.115 | \$50.34 |
| 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 | \$20.32 | 1 | \$20.32 |
| Equipment Operators, Light | 232 | Includes: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers | Hour | \$22.08 | 1 | \$22.08 |
| Materials | | | | | | |
| Shrub, seedling or transplant, bare root, 18"-36" | 1507 | Bare root hardwood trees 18-36" tall. Includes materials and shipping only. | Each | \$0.58 | 100 | \$58.00 |