

Practice: 327 - Conservation Cover

Scenario: #1 - Introduced Grass

Scenario Description: This practice applies on land to be retired from agricultural production and on other lands needing permanent protective cover. This practice typically involves conversion from a row crop cropping system to permanent non-native vegetation (scenario includes non-native grass/legume species). The typical size of the practice is 10 acres. This practice scenario is typically used to reduce soil erosion, reduce soil quality degradation, improve water quality, develop wildlife habitat, and reduce air quality impacts.

Before Situation: Crops such as corn, soybeans, or cotton are conventionally grown and harvested. Full width tillage is utilized, weeds controlled by cultivation and/or chemical application. Soil surface residue amounts average 10% or less. Soil erosion occurs with visible rills present, sediment may be moving offsite into surface water degrading water quality. Soil quality (soil organic matter) declines over time as a result of tillage practices, low residue, and long periods of bare soil. Air quality may be impacted during field operations by the creation of particulates. The system provides little to no wildlife habitat.

After Situation: Land covered with permanent non-native grass/legume vegetation has reduced soil erosion, reduced water/sediment runoff, and significant dust emissions are eliminated therefore, air quality is improved. Plants sown for conservation cover may provide cover for beneficial insects and wildlife. This scenario does not apply to plantings for forage production or to critical area plantings.

Scenario Feature Measure: Area planted

Scenario Unit: Acre

Scenario Typical Size: 10

Total Scenario Cost: \$6,274.67

Scenario Cost/Unit: \$627.47

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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Materials

Four Species Mix, Cool Season, Introduced Perennial (2 grasses, 2 legumes)	2317	Cool season grass and legume mix. Includes material and shipping only.	Acre	\$49.65	10	\$496.46
Herbicide, Glyphosate	334	A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.93	10	\$159.26
Nitrogen (N), Ammonium Nitrate	69	Price per pound of N supplied by Ammonium Nitrate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.67	500	\$335.45
Phosphorus, P2O5	73	Price per pound of P2O5 supplied by Superphosphate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.55	500	\$274.46
Potassium, K2O	74	K2O supplied by Muriate Of Potash. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.43	400	\$170.77

Equipment Installation

Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.03	10	\$60.34
Fertilizer, ground application, dry bulk	950	Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.76	10	\$67.59
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$21.01	10	\$210.06

Foregone Income

FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$453.83	5	\$2,269.13
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$446.23	5	\$2,231.15

Practice: 327 - Conservation Cover

Scenario: #2 - Native Grass

Scenario Description: This practice applies on land to be retired from agricultural production and on other lands needing permanent protective cover. This practice typically involves conversion from a row crop cropping system to permanent native vegetation (scenario includes native grass). The typical size of the practice is 10 acres. This practice scenario is typically used to reduce soil erosion, reduce soil quality degradation, improve water quality, develop wildlife habitat, and reduce air quality impacts.

Before Situation: Crops such as corn, soybeans, or cotton are conventionally grown and harvested. Full width tillage is utilized, weeds controlled by cultivation and/or chemical application. Soil surface residue amounts average 10% or less. Soil erosion occurs with visible rills present, sediment may be moving offsite into surface water degrading water quality. Soil quality (soil organic matter) declines over time as a result of tillage practices, low residue, and long periods of bare soil. Air quality may be impacted during field operations by the creation of particulates. The system provides little to no wildlife habitat.

After Situation: Land covered with permanent native grass vegetation has reduced soil erosion, reduced water/sediment runoff, and significant dust emissions are eliminated therefore, air quality is improved. Plants sown for conservation cover may provide cover for beneficial insects and wildlife. This scenario does not apply to plantings for forage production or to critical area plantings.

Scenario Feature Measure: Area planted

Scenario Unit: Acre

Scenario Typical Size: 10

Total Scenario Cost: \$7,359.30

Scenario Cost/Unit: \$735.93

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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Materials

Herbicide, Glyphosate	334	A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.93	20	\$318.52
Three plus Species Mix, Warm Season, Native Perennial	2327	Native, warm season perennial grass. Includes material and shipping only.	Acre	\$220.98	10	\$2,209.75

Equipment Installation

Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.03	20	\$120.68
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$21.01	10	\$210.06

Foregone Income

FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$453.83	5	\$2,269.13
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$446.23	5	\$2,231.15

Practice: 327 - Conservation Cover

Scenario: #3 - Organic Introduced Mix

Scenario Description: This practice applies on organically managed land needing permanent protective cover. This practice applies on land to be retired from agricultural production and on other lands needing permanent protective cover. This practice typically involves conversion from a row crop cropping system to permanent non-native vegetation (scenario includes non-native grass/legume species). The typical size of the practice is 10 acres. This practice scenario is typically used to reduce soil erosion, reduce soil quality degradation, improve water quality, develop wildlife habitat, and reduce air quality impacts.

Before Situation: Crops such as vegetables and small fruit crops are organically grown and harvested. Full width tillage is utilized, weeds controlled by cultivation and/or chemical application. Soil surface residue amounts average 10% or less. Soil erosion occurs with visible rills present, sediment may be moving offsite into surface water degrading water quality. Soil quality (soil organic matter) declines over time as a result of tillage practices, low residue, and long periods of bare soil. Air quality may be impacted during field operations by the creation of particulates. The system provides little to no wildlife habitat.

After Situation: Land covered with permanent non-native grass/legume vegetation has reduced soil erosion, reduced water/sediment runoff, and significant dust emissions are eliminated therefore, air quality is improved. Plants sown for conservation cover may provide cover for beneficial insects and wildlife. This scenario does not apply to plantings for forage production or to critical area plantings.

Scenario Feature Measure: Area planted

Scenario Unit: Acre

Scenario Typical Size: 10

Total Scenario Cost: \$6,741.99

Scenario Cost/Unit: \$674.20

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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Materials

Certified Organic, Three Species Mix, Cool Season, Perennial Grasses and Legumes	2340	Certified organic cool season perennial grass and legume mix. Includes material and shipping only.	Acre	\$69.62	10	\$696.22
Nitrogen, Organic	266	ORGANIC Nitrogen	Pound	\$0.25	500	\$125.31
Phosphorus, Organic	267	ORGANIC Phosphorus	Pound	\$0.25	500	\$124.88
Potassium, Organic	268	ORGANIC Potassium	Pound	\$0.25	400	\$99.90

Equipment Installation

Fertilizer, ground application, dry bulk	950	Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.76	10	\$67.59
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$21.01	10	\$210.06
Tillage, Light	945	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$10.96	20	\$219.20

Foregone Income

FI, Organic, Corn Dryland	2232	Organic Dryland Corn is Primary Crop	Acre	\$522.95	5	\$2,614.76
FI, Organic, Soybeans Dryland	2234	Organic Dryland Soybeans is Primary Crop	Acre	\$516.81	5	\$2,584.07

Practice: 327 - Conservation Cover

Scenario: #4 - Organic Native Mix

Scenario Description: This practice applies on organically managed land needing permanent protective cover. This practice applies on land to be retired from agricultural production and on other lands needing permanent protective cover. This practice typically involves conversion from a row crop cropping system to permanent native vegetation (scenario includes native grass). The typical size of the practice is 10 acres. This practice scenario is typically used to reduce soil erosion, reduce soil quality degradation, improve water quality, develop wildlife habitat, and reduce air quality impacts. *Certified Organic Native Seed is typically NOT available, therefore non-organic seed components were used.

Before Situation: Crops such as vegetables and small fruit crops are organically grown and harvested. Full width tillage is utilized, weeds controlled by cultivation and/or chemical application. Soil surface residue amounts average 10% or less. Soil erosion occurs with visible rills present, sediment may be moving offsite into surface water degrading water quality. Soil quality (soil organic matter) declines over time as a result of tillage practices, low residue, and long periods of bare soil. Air quality may be impacted during field operations by the creation of particulates. The system provides little to no wildlife habitat.

After Situation: Land covered with permanent native grass vegetation has reduced soil erosion, reduced water/sediment runoff, and significant dust emissions are eliminated therefore, air quality is improved. Plants sown for conservation cover may provide cover for beneficial insects and wildlife. This scenario does not apply to plantings for forage production or to critical area plantings.

Scenario Feature Measure: Area planted

Scenario Unit: Acre

Scenario Typical Size: 10

Total Scenario Cost: \$7,837.84

Scenario Cost/Unit: \$783.78

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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Equipment Installation

Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$21.01	10	\$210.06
Tillage, Light	945	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$10.96	20	\$219.20

Foregone Income

FI, Organic, Corn Dryland	2232	Organic Dryland Corn is Primary Crop	Acre	\$522.95	5	\$2,614.76
FI, Organic, Soybeans Dryland	2234	Organic Dryland Soybeans is Primary Crop	Acre	\$516.81	5	\$2,584.07

Materials

Three plus Species Mix, Warm Season, Native Perennial	2327	Native, warm season perennial grass. Includes material and shipping only.	Acre	\$220.98	10	\$2,209.75
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Practice: 327 - Conservation Cover

Scenario: #5 - Pollinator Habitat

Scenario Description: Permanent vegetation, including mix of native grasses, legume, forbs (mix may also include non-native species), established on any land needing permanent vegetative cover that provides a mix of early, mid, and late season forbs, as well as habitat for pollinators. Typical practice size is variable depending on site, this scenario uses 5 ac as the typical size. In addition to providing pollinator habitat, this practice scenario may also reduce sheet and rill erosion, improve soil quality, improve water quality, and improve air quality. The practice may also provide wildlife habitat. Practice applicable on cropland, odd areas, corners, etc.

Before Situation: Crops such as corn, soybeans, or cotton are conventionally grown and harvested. Full width tillage is utilized, weeds controlled by cultivation and/or chemical application. Soil surface residue amounts average 10% or less. Soil erosion occurs with visible rills present, sediment may be moving offsite into surface water degrading water quality. Soil quality (soil organic matter) declines over time as a result of tillage practices, low residue, and long periods of bare soil. Air quality may be impacted during field operations by the creation of particulates. The system provides little to no wildlife or pollinator habitat.

After Situation: Land covered with permanent pollinator habitat including a mix of native grasses, legume, forbs (mix may also include non-native species). This practice may also have reduced soil erosion, reduced water/sediment runoff, and significant dust emissions are eliminated therefore, air quality is improved. Plants sown for pollinator habitat may also provide cover for beneficial insects and wildlife. This scenario does not apply to critical area plantings.

Scenario Feature Measure: Area planted

Scenario Unit: Acre

Scenario Typical Size: 5

Total Scenario Cost: \$3,881.20

Scenario Cost/Unit: \$776.24

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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Materials

Herbicide, Glyphosate	334	A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.93	10	\$159.26
Native Grass and Forb Mix, for Wildlife (including pollinators) or Ecosystem Restoration	2335	Native grass and forb/legume mix, including specialized species. Includes material and shipping only.	Acre	\$261.29	5	\$1,306.43

Equipment Installation

Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.03	10	\$60.34
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$21.01	5	\$105.03

Foregone Income

FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$453.83	2.5	\$1,134.57
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$446.23	2.5	\$1,115.58

Practice: 327 - Conservation Cover

Scenario: #6 - Organic Pollinator Habitat

Scenario Description: Permanent vegetation, including mix of native grasses, legume, forbs (mix may also include non-native species), established on organically managed land needing permanent vegetative cover that provides a mix of early, mid, and late season forbs, as well as habitat for pollinators. Typical practice size is variable depending on site, this scenario uses 5 ac as the typical size. In addition to providing pollinator habitat, this practice scenario may also reduce sheet and rill erosion, improve soil quality, improve water quality, and improve air quality. The practice may also provide wildlife habitat. Practice applicable on cropland, odd areas, corners, etc. *Certified Organic Native Seed is typically NOT available, therefore non-organic seed components were used.

Before Situation: Crops such as vegetables and small fruit crops are organically grown and harvested. Full width tillage is utilized, weeds controlled mainly by cultivation. Soil surface residue amounts average 10% or less. Soil erosion occurs with visible rills present, sediment may be moving offsite into surface water degrading water quality. Soil quality (soil organic matter) declines over time as a result of tillage practices, low residue, and long periods of bare soil. Air quality may be impacted during field operations by the creation of particulates. The system provides little to no wildlife or pollinator habitat.

After Situation: Organically managed land covered with permanent pollinator habitat including a mix of native grasses, legume, forbs (mix may also include non-native species). This practice may also have reduced soil erosion, reduced water/sediment runoff, and significant dust emissions are eliminated therefore, air quality is improved. Plants sown for pollinator habitat may also provide cover for beneficial insects and wildlife. This scenario does not apply to critical area plantings.

Scenario Feature Measure: Area planted

Scenario Unit: Acre

Scenario Typical Size: 5

Total Scenario Cost: \$4,120.47

Scenario Cost/Unit: \$824.09

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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Equipment Installation

Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$21.01	5	\$105.03
Tillage, Light	945	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$10.96	10	\$109.60

Foregone Income

FI, Organic, Corn Dryland	2232	Organic Dryland Corn is Primary Crop	Acre	\$522.95	2.5	\$1,307.38
FI, Organic, Soybeans Dryland	2234	Organic Dryland Soybeans is Primary Crop	Acre	\$516.81	2.5	\$1,292.03

Materials

Native Grass and Forb Mix, for Wildlife (including pollinators) or Ecosystem Restoration	2335	Native grass and forb/legume mix, including specialized species. Includes material and shipping only.	Acre	\$261.29	5	\$1,306.43
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Practice: 327 - Conservation Cover

Scenario: #7 - Prairie Restoration

Scenario Description: Permanent vegetation, including mix of native grasses, legume, forbs established on land needing permanent vegetative cover as a restoration to native prairie habitat. Typical practice size is variable depending on site, this scenario uses 10 ac as the typical size. In addition to restoring prairie cover, this practice scenario may also reduce sheet and rill erosion, improve soil quality, improve water quality, and improve air quality. The practice may also provide wildlife habitat. Practice applicable on cropland, odd areas, corners, etc.

Before Situation: Crops such as corn, soybeans, or cotton are conventionally grown and harvested. Full width tillage is utilized, weeds controlled by cultivation and/or chemical application. Soil surface residue amounts average 10% or less. Soil erosion occurs with visible rills present, sediment may be moving offsite into surface water degrading water quality. Soil quality (soil organic matter) declines over time as a result of tillage practices, low residue, and long periods of bare soil. Air quality may be impacted during field operations by the creation of particulates. The system provides little to no wildlife or pollinator habitat.

After Situation: Land restored to natural habitat including a mix of native grasses, legume, forbs. This practice may also have reduced soil erosion, reduced water/sediment runoff, and significant dust emissions are eliminated therefore, air quality is improved. Plants sown for pollinator habitat may also provide cover for beneficial insects and wildlife. This scenario does not apply to critical area plantings.

Scenario Feature Measure: Area planted

Scenario Unit: Acre

Scenario Typical Size: 10

Total Scenario Cost: \$9,100.42

Scenario Cost/Unit: \$910.04

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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Materials

Herbicide, Glyphosate	334	A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.93	20	\$318.52
One Species, Native Forb, Low Cost	2329	Native forb. Includes material and shipping only.	Acre	\$186.18	10	\$1,861.79
Three plus Species Mix, Warm Season, Native Perennial	2327	Native, warm season perennial grass. Includes material and shipping only.	Acre	\$220.98	10	\$2,209.75

Equipment Installation

Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$21.01	10	\$210.06
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Foregone Income

FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$453.83	5	\$2,269.13
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$446.23	5	\$2,231.15

Practice: 327 - Conservation Cover

Scenario: #8 - Sedge Meadow Plugs

Scenario Description: Permanent herbaceous vegetation, including mix of native grasses, sedges and other wetland forbs, established on land needing permanent vegetative cover as a restoration to wetland habitat typical to the site. Typical practice size is variable depending on site, this scenario uses 1 ac as the typical size. In addition to restoring sedge meadow cover, this practice scenario may also reduce sheet and rill erosion, improve soil quality, improve water quality, and improve air quality. The practice may also provide wildlife habitat. Practice applicable on cropland, riparian areas and other areas where wetland hydrology exist or will be restored.

Before Situation: Crops such as corn, soybeans, or cotton are conventionally grown and harvested. Full width tillage is utilized, weeds controlled by cultivation and/or chemical application. Soil surface residue amounts average 10% or less. Soil erosion occurs with visible rills present, sediment may be moving offsite into surface water degrading water quality. Soil quality (soil organic matter) declines over time as a result of tillage practices, low residue, and long periods of bare soil. Air quality may be impacted during field operations by the creation of particulates. The system provides little to no wildlife or pollinator habitat.

After Situation: Land restored to natural wetland habitat including a mix of native grasses, sedges and forbs adapted to living in saturated soils with temporary inundation. This practice may also have reduced soil erosion, reduced water/sediment runoff, and significant dust emissions are eliminated therefore, air quality is improved. Plants sown for pollinator habitat may also provide cover for beneficial insects and wildlife. This scenario does not apply to critical area plantings.

Scenario Feature Measure: Area planted

Scenario Unit: Acre

Scenario Typical Size: 1

Total Scenario Cost: \$4,788.31

Scenario Cost/Unit: \$4,788.31

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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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	\$21.71	28	\$607.85
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Equipment Installation

Tillage, Light	945	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$10.96	1	\$10.96
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Foregone Income

FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$453.83	0.5	\$226.91
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$446.23	0.5	\$223.12

Materials

Native Aquatic Plants, Emergent or Submerged	2336	Native aquatic emergent or submerged. All required materials for establishing vegetation. Includes material and shipping.	Each	\$1.37	2723	\$3,719.47
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Practice: 327 - Conservation Cover

Scenario: #9 - Aquatic Emergent

Scenario Description: Aquatic and emergent herbaceous vegetation established in a wetland that is seasonally inundated with water to restore the characteristic wetland plant community to the site. Typical practice size is variable depending on site, this scenario uses 1 ac as the typical size. In addition to restoring aquatic emergent plant community this practice scenario may also improve fish and wildlife habitat, soil quality, improve water quality, and improve air quality. Practice applicable on cropland, riparian areas, lacustrine fringes, depressional areas and other areas where wetland hydrology exist or will be restored.

Before Situation: Crops such as corn, soybeans, or cotton are conventionally grown and harvested. Full width tillage is utilized, weeds controlled by cultivation and/or chemical application. Soil surface residue amounts average 10% or less. Soil erosion occurs with visible rills present, sediment may be moving offsite into surface water degrading water quality. Soil quality (soil organic matter) declines over time as a result of tillage practices, low residue, and long periods of bare soil. Air quality may be impacted during field operations by the creation of particulates. The system provides little to no wildlife or pollinator habitat.

After Situation: Land restored to natural wetland habitat including a mix of native aquatic and/or emergent wetland plants adapted to living in saturated and inundated soils with seasonal inundation. Wetland fish and wildlife habitat has been benefited. This practice may also have reduced high nutrient levels in water in the wetland may have reduced other water pollutants. This scenario does not apply to critical area plantings.

Scenario Feature Measure: Area Planted

Scenario Unit: Acre

Scenario Typical Size: 1

Total Scenario Cost: \$2,450.16

Scenario Cost/Unit: \$2,450.16

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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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	\$21.71	16	\$347.34
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Foregone Income

FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$453.83	0.5	\$226.91
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$446.23	0.5	\$223.12

Materials

Native Aquatic Plants, Emergent or Submerged	2336	Native aquatic emergent or submerged. All required materials for establishing vegetation. Includes material and shipping.	Each	\$1.37	1210	\$1,652.79
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Practice: 327 - Conservation Cover

Scenario: #19 - Specialty Pollinator Habitat

Scenario Description: Permanent vegetation, including mix of native grasses, legume, forbs (mix may also include non-native species), established on any land needing permanent vegetative cover that provides a mix of early, mid, and late season forbs, as well as habitat for pollinators. One or more specialty pollinator species are identified, and the seeding mix will meet the need of those particular species. Typical practice size is variable depending on site, this scenario uses 5 ac as the typical size. In addition to providing pollinator habitat, this practice scenario may also reduce sheet and rill erosion, improve soil quality, improve water quality, and improve air quality. The practice may also provide wildlife habitat. Practice applicable on cropland, odd areas, corners, etc.

Before Situation: Crops such as corn, soybeans, or cotton are conventionally grown and harvested. Full width tillage is utilized, weeds controlled by cultivation and/or chemical application. Soil surface residue amounts average 10% or less. Soil erosion occurs with visible rills present, sediment may be moving offsite into surface water degrading water quality. Soil quality (soil organic matter) declines over time as a result of tillage practices, low residue, and long periods of bare soil. Air quality may be impacted during field operations by the creation of particulates. The system provides little to no wildlife or pollinator habitat

After Situation: Land covered with permanent pollinator habitat including a mix of native grasses, legume, forbs (mix may also include non-native species). Specialty pollinator species were identified, and the seeding mix needed to meet the need of those species was used. This practice may also have reduced soil erosion, reduced water/sediment runoff, and significant dust emissions are eliminated therefore, air quality is improved. Plants sown for pollinator habitat may also provide cover for beneficial insects and wildlife. This scenario does not apply to critical area plantings.

Scenario Feature Measure: Area planted

Scenario Unit: Acre

Scenario Typical Size: 5

Total Scenario Cost: \$5,509.30

Scenario Cost/Unit: \$1,101.86

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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Materials

Herbicide, Glyphosate	334	A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.93	10	\$159.26
Three Species Mix, Native Forb	2333	Native forb mix. Includes material and shipping only.	Acre	\$586.90	5	\$2,934.52

Equipment Installation

Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.03	10	\$60.34
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$21.01	5	\$105.03

Foregone Income

FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$453.83	2.5	\$1,134.57
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$446.23	2.5	\$1,115.58

Practice: 327 - Conservation Cover

Scenario: #20 - Sedge Meadow Seeding

Scenario Description: Permanent herbaceous vegetation, including mix of native grasses, sedges and other wetland forbs, established on land needing permanent vegetative cover as a restoration to wetland habitat typical to the site. Typical practice size is variable depending on site, this scenario uses 1 ac as the typical size. In addition to restoring sedge meadow cover, this practice scenario may also reduce sheet and rill erosion, improve soil quality, improve water quality, and improve air quality. The practice may also provide wildlife habitat. Practice applicable on cropland, riparian areas and other areas where wetland hydrology exist or will be restored.

Before Situation: Crops such as corn, soybeans, or cotton are conventionally grown and harvested. Full width tillage is utilized, weeds controlled by cultivation and/or chemical application. Soil surface residue amounts average 10% or less. Soil erosion occurs with visible rills present, sediment may be moving offsite into surface water degrading water quality. Soil quality (soil organic matter) declines over time as a result of tillage practices, low residue, and long periods of bare soil. Air quality may be impacted during field operations by the creation of particulates. The system provides little to no wildlife or pollinator habitat.

After Situation: Land restored to natural wetland habitat including a mix of native grasses, sedges and forbs adapted to living in saturated soils with temporary inundation. This practice may also have reduced soil erosion, reduced water/sediment runoff, and significant dust emissions are eliminated therefore, air quality is improved. Seeds sown for pollinator habitat may also provide cover for beneficial insects and wildlife. This scenario does not apply to critical area plantings.

Scenario Feature Measure: Area planted

Scenario Unit: Acre

Scenario Typical Size: 1

Total Scenario Cost: \$1,507.70

Scenario Cost/Unit: \$1,507.70

Cost Details

Component Name	Id	Description	Unit	Cost	Qty	Total
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Equipment Installation

Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$21.01	1	\$21.01
Tillage, Light	945	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$10.96	1	\$10.96

Foregone Income

FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$453.83	0.5	\$226.91
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$446.23	0.5	\$223.12

Materials

Specialized native grass and forb mix	2619	A mix of native grass and forbs to be used for specialized purposes such as wildlife (including pollinators) or ecosystem restoration, requiring species not readily available and/or difficult to produce and harvest. Includes material and shipping only.	Acre	\$1,025.70	1	\$1,025.70
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