

**Scenario Worksheet**

**Practice and Scenario Description:**

Information Type	Data
Region	Mid Atlantic
State	New Jersey
Discipline Group	Wildlife Wetland
Practice Code/Name	390 - Riparian Herbaceous Cover
Scenario ID	1
Scenario Name	

**Native Grasses with Forbs:** This scenario addresses inadequate herbaceous plant community function or diversity within the specific transitional zone between terrestrial and aquatic habitats on cropland where natural seeding methods and/or management is unlikely to improve the plant community within a reasonable time period. This scenario applies to work not covered under NRCS Conservation Practice Range Planting (528), Forage and Biomass Planting (512), Critical Area Planting (342), Filter Strip (393), Restoration and Management of Rare and Declining Habitats (643), Streambank and Shoreline Protection ( 580), Vegetated Treatment Area (635), Wetland Enhancement ( 659), or Wetland Restoration (657). This practice can be

**Before Practice Situation**  
The riparian zone, the specific area between terrestrial and aquatic habitats, is currently an undesirable or inadequate stand of perennial or annual vegetation and natural reseeding or vegetation management is unlikely to improve the plant community within a reasonable amount of time to adequately address streambank and/or shoreline stability, dissipate stream energy and trap sediment, improve and/or maintain water quality, and/or provide adequate habitat corridors, food and/or cover for fish, wildlife, pollinators, and/or livestock resource concern(s). Existing conditions often require suppression or eradication of current vegetation by conventional mechanical or chemical (Herbaceous Weed Control (315)) methods to ensure establishment success of the new planting.

**After Practice Situation**  
The riparian zone, the transitional zone between the terrestrial and aquatic habitats, is established to an adapted, diverse vegetative plant community and is under close management to insure long term survival and ecological succession. The quality and quantity of the riparian zone components are managed to support the species that depend on it for habitat as well as the functions it performs for stabilizing the streambank and/or shoreline, dissipating stream energy and trapping sediment, and improving and/or maintaining water quality. These functions include: stream temperature moderation through shading, recruitment of non-woody organic matter, habitat for terrestrial insects and other riparian dependent species, streambank integrity, and filtration of contaminants from surface run-off into the stream.

Scenario Feature Measure	Acres of Riparian Herbaceous Cover
Scenario Unit	Acre
Scenario Typical Size	1

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$742.65	\$742.65
Equipment/Installation	\$118.36	\$118.36
Labor	\$44.58	\$44.58
Mobilization	\$390.26	\$390.26
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$229.69	\$229.69
Total	\$1,525.54	\$1,525.54

Cost Details:									
Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost	Component Justification	Quantity Justification
Materials	122	Illinois Bundleflower (Desmanthus illinoensis)	Native Legumes and shipping.	Pound	\$27.94	1	\$27.94	Plants for habitat creation/restoration. PLS (pure live seed) Seeding rates for drill planting are based on 20 seeds per square foot double that for broadcast seeding.	Density based on existing specs for geographic area..
Materials	77	Eastern Gamagrass (Tripsacum dactyloides)	Native Grasses and shipping.	Pound	\$17.45	5	\$87.25	Plants for habitat creation/restoration. PLS (pure live seed) Seeding rates for drill planting are based on 20 seeds per square foot double that for broadcast seeding.	Density based on existing specs for geographic area..
Materials	82	Switchgrass, Blackwell (Panicum virgatum)	Native Grasses and shipping.	Pound	\$9.62	2	\$19.24	Plants for habitat creation/restoration. PLS (pure live seed) Seeding rates for drill planting are based on 20 seeds per square foot double that for broadcast seeding.	Density based on existing specs for geographic area..
Materials	84	Wild Rye, Virginia (Elymus virginicus)	Native Grasses and shipping.	Pound	\$9.81	4	\$39.24	Plants for habitat creation/restoration. PLS (pure live seed) Seeding rates for drill planting are based on 20 seeds per square foot double that for broadcast seeding.	Density based on existing specs for geographic area..
Materials	139	Western Sunflower (Helianthus occidentalis)	Native Forbs and shipping.	Pound	\$467.12	1	\$467.12	Plants for habitat creation/restoration. PLS (pure live seed) Seeding rates for drill planting are based on 20 seeds per square foot double that for broadcast seeding.	Density based on existing specs for geographic area..
Materials	154	Blue Vervain (Verbena hastata)	Native Forbs and shipping.	Pound	\$78.24	1	\$78.24	Plants for habitat creation/restoration. PLS (pure live seed) Seeding rates for drill planting are based on 20 seeds per square foot double that for broadcast seeding.	Density based on existing specs for geographic area..
Materials	76	Big Blue Stem (Andropogon gerardii)	Native Grasses and shipping.	Pound	\$11.81	2	\$23.62	Plants for habitat creation/restoration. PLS (pure live seed) Seeding rates for drill planting are based on 20 seeds per square foot double that for broadcast seeding.	Density based on existing specs for geographic area..
Equipment/Installation	945	Tillage, Light	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$9.87	1	\$9.87	Seedbed preparation necessary for good seed to soil contact	Time needed for disking and drilling
Equipment/Installation	962	Tractor, agricultural, 120 HP	Agricultural tractor with horsepower range of 90 to 140. Equipment and power unit costs. Labor not included.	Hour	\$47.06	2	\$94.12	Power for disk and drill operations	Acres of Riparian Herbaceous Cover
Equipment/Installation	960	Seeding Operation, No Till/Grass Drill	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$14.37	1	\$14.37	Seeding operation necessary for good seed to soil contact and limiting planting depth	Acres of Riparian Herbaceous Cover
Labor	232	Equipment Operators, Light	Includes: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers	Hour	\$22.29	2	\$44.58	Tractor operator	Time needed for disking and drilling
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	\$195.13	2	\$390.26	Loading and transport of equipment to site	Time needed to load and transport equipment to site
Foregone Income	1961	Fl, Soybeans Dryland	Dryland Soybeans is Primary Crop	Acre	\$295.69	0.25	\$73.92		Rotation of 2 years cor, 1 year soybeans, 1 year wheat
Foregone Income	1959	Fl, Corn Dryland	Dryland Corn is Primary Crop	Acre	\$202.67	0.5	\$101.34		Rotation of 2 years cor, 1 year soybeans, 1 year wheat
Foregone Income	1963	Fl, Wheat Dryland	Dryland Wheat is Primary Crop	Acre	\$217.71	0.25	\$54.43		Rotation of 2 years cor, 1 year soybeans, 1 year wheat

**Scenario Worksheet**

**Practice and Scenario Description:**

Information Type	Data
Region	Mid Atlantic
State	New Jersey
Discipline Group	Wildlife Wetland
Practice Code/Name	390 - Riparian Herbaceous Cover
Scenario ID	2
Scenario Name	Native Seeding Pasture

**Scenario Description**  
**Native Grasses with Forbs:** This scenario addresses inadequate herbaceous plant community function or diversity within the specific transitional zone between terrestrial and aquatic habitats in pasture or forestland where natural seeding methods and/or management is unlikely to improve the plant community within a reasonable time period. This scenario applies to work not covered under NRCS Conservation Practice Range Planting (528), Forage and Biomass Planting (512), Critical Area Planting (342), Filter Strip (393), Restoration and Management of Rare and Declining Habitats (643), Streambank and Shoreline Protection ( 580), Vegetated Treatment Area (635), Wetland Enhancement ( 659), or Wetland Restoration

**Before Practice Situation**  
 The riparian zone, the specific area between terrestrial and aquatic habitats, is currently an undesirable or inadequate stand of perennial or annual vegetation and natural reseeding or vegetation management is unlikely to improve the plant community within a reasonable amount of time to adequately address streambank and/or shoreline stability, dissipate stream energy and trap sediment, improve and/or maintain water quality, and/or provide adequate habitat corridors, food and/or cover for fish, wildlife, pollinators, and/or livestock resource concern(s). Existing conditions often require suppression or eradication of current vegetation by conventional mechanical or chemical (Herbaceous Weed Control (315)) methods to ensure establishment success of the new planting.

**After Practice Situation**  
 The riparian zone, the transitional zone between the terrestrial and aquatic habitats, is established to an adapted, diverse vegetative plant community and is under close management to insure long term survival and ecological succession. The quality and quantity of the riparian zone components are managed to support the species that depend on it for habitat as well as the functions it performs for stabilizing the streambank and/or shoreline, dissipating stream energy and trapping sediment, and improving and/or maintaining water quality. These functions include: stream temperature moderation through shading, recruitment of non-woody organic matter, habitat for terrestrial insects and other riparian dependent species, streambank integrity, and filtration of contaminants from surface run-off into the stream.

**Scenario Feature Measure**  
 Acres of Riparian Herbaceous Cover

**Scenario Unit**  
 Acre

**Scenario Typical Size**  
 1

**Cost Summary:**

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$742.65	\$742.65
Equipment/Installation	\$118.36	\$118.36
Labor	\$44.58	\$44.58
Mobilization	\$390.26	\$390.26
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$15.29	\$15.29
Total	\$1,311.14	\$1,311.14

