

**Practice: 393 - Filter Strip**

**Scenario: #5 - Native grass**

**Scenario Description:**

A strip or area of native grass that reduces suspended solids and associated dissolved contaminants in run-off water that is not irrigation tail-water. The filter strip shall be situated between the contaminant source and sensitive areas. The practice includes seedbed preparation, seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected for seeding shall be able to withstand partial burial by sediment and tolerate herbicides commonly used on the contribution area while simultaneously protecting environmentally-sensitive areas. Seeding rates shall be on pure live seed (PLS) basis.

**Before Situation:**

Annual cropland allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat, and neighboring non-ag properties. Water quality resource concerns are associated with this practice.

**After Situation:**

The planned filter strip is established and maintained per the practice plan to meet the criteria for the planned purpose(s). Seeded vegetation consists of native grass species. The filter strip has adequate width to filter the anticipated pollutants. The area of the filter strip is taken out of production and is not used as a travel lane for equipment or livestock.

**Scenario Feature Measure:** number of acres

**Scenario Unit:** Acre

**Scenario Typical Size:** 1

**Scenario Cost:** \$465.86

**Scenario Cost/Unit:** \$465.86

**Cost Details (by category):**

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
<b>Equipment/Installation</b>						
Tillage, Light	945	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$8.97	1	\$8.97
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$17.20	1	\$17.20
Cultipacking	1100	Includes equipment, power unit and labor costs.	Acre	\$6.83	1	\$6.83
<b>Foregone Income</b>						
FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$144.36	1	\$144.36
<b>Materials</b>						
One Species, Warm Season, Native Perennial Grass	2322	Native, warm season perennial grass. Includes material and shipping only.	Acre	\$70.93	1	\$70.93
<b>Mobilization</b>						
Mobilization, medium equipment	1139	Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$217.57	1	\$217.57

**Practice: 393 - Filter Strip**

**Scenario: #6 - Introduced grass**

**Scenario Description:**

A strip or area of introduced grass that reduces suspended solids and associated dissolved contaminants in run-off water that is not irrigation tail-water. The filter strip shall be situated between the contaminant source and sensitive areas. The practice includes seedbed preparation, seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerate herbicides commonly used on the contribution area while simultaneously protecting environmentally-sensitive areas. The area of the filter strip is taken out of production and is not used as a travel lane for equipment or livestock. Seeding rates shall be on pure live seed (PLS) basis.

**Before Situation:**

Annual cropland allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat, and neighboring non-ag properties. Water quality resource concerns are associated with this practice.

**After Situation:**

The planned filter strip will be established and maintained per the practice plan to meet the criteria for the planned purpose(s). Seeded vegetation will consist of introduced grass species. The filter strip will have adequate width to filter the planned pollutants. The area of the filter strip is taken out of production and is not used as a travel lane for equipment or livestock.

**Scenario Feature Measure:** Number of acres

**Scenario Unit:** Acre

**Scenario Typical Size:** 1

**Scenario Cost:** \$522.86

**Scenario Cost/Unit:** \$522.86

**Cost Details (by category):**

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
<b>Equipment/Installation</b>						
Tillage, Light	945	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$8.97	1	\$8.97
Cultipacking	1100	Includes equipment, power unit and labor costs.	Acre	\$6.83	1	\$6.83
Ground sprigging	1101	Includes costs for equipment, power unit and labor.	Acre	\$81.04	1	\$81.04
<b>Foregone Income</b>						
FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$144.36	1	\$144.36
<b>Materials</b>						
One Species, Warm Season, Introduced Perennial Grass (seed or sprigs)	2323	Introduced, warm season perennial grass seed or sprig. Includes material and shipping only.	Acre	\$64.09	1	\$64.09
<b>Mobilization</b>						
Mobilization, medium equipment	1139	Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$217.57	1	\$217.57

**Practice: 393 - Filter Strip**

**Scenario: #7 - Native grass with land shaping**

**Scenario Description:**

A strip or area of native grass that reduces suspended solids and associated dissolved contaminants in run-off water that is not irrigation tail-water. The filter strip shall be situated between the contaminant source and sensitive areas. The practice includes seedbed preparation (including any shaping needed to ensure even entry of water into the strip), seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerate herbicides commonly used on the contribution area while simultaneously protecting environmentally-sensitive areas. The area of the filter strip is taken out of production and is not used as a travel lane for equipment or livestock. Seeding rates shall be on pure live seed (PLS) basis.

**Before Situation:**

Annual cropland allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat, and neighboring non-ag properties. Water quality resource concerns are associated with this practice.

**After Situation:**

The planned filter strip will be established and maintained per the practice plan to meet the criteria for the planned purpose(s). Seeded vegetation will consist of native grass species. The filter strip will have adequate width to filter the planned pollutants. The area of the filter strip is taken out of production and is not used as a travel lane for equipment or livestock.

**Scenario Feature Measure:** Number of acres

**Scenario Unit:** Acre

**Scenario Typical Size:** 1

**Scenario Cost:** \$789.02

**Scenario Cost/Unit:** \$789.02

**Cost Details (by category):**

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
<b>Equipment/Installation</b>						
Dozer, 80 HP	929	Track mounted Dozer with horsepower range of 60 to 90. Equipment and power unit costs. Labor not included.	Hour	\$57.18	4	\$228.72
Tillage, Light	945	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$8.97	1	\$8.97
Cultipacking	1100	Includes equipment, power unit and labor costs.	Acre	\$6.83	1	\$6.83
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$17.20	1	\$17.20
<b>Foregone Income</b>						
Fl, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$144.36	1	\$144.36
<b>Labor</b>						
Equipment Operators, Heavy	233	Includes: Cranes, Hydraulic Excavators >=50 HP, Dozers, Paving Machines, Rock Trenchers, Trenchers >=12", Dump Trucks, Ag Equipment >=150 HP, Scrapers, Water Wagons.	Hour	\$23.61	4	\$94.44
<b>Materials</b>						
One Species, Warm Season, Native Perennial Grass	2322	Native, warm season perennial grass. Includes material and shipping only.	Acre	\$70.93	1	\$70.93
<b>Mobilization</b>						
Mobilization, medium equipment	1139	Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$217.57	1	\$217.57

**Practice: 393 - Filter Strip**

**Scenario: #8 - Introduced grass with land shaping**

**Scenario Description:**

A strip or area of introduced grass that reduces suspended solids and associated dissolved contaminants in run-off water that is not irrigation tail-water. The filter strip shall be situated between the contaminant source and sensitive areas. The practice includes seedbed preparation (including any shaping needed to ensure even entry of water into the strip), seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerate herbicides commonly used on the contribution area while simultaneously protecting environmentally-sensitive areas. The area of the filter strip is taken out of production and is not used as a travel lane for equipment or livestock. Seeding rates shall be on pure live seed (PLS) basis.

**Before Situation:**

Annual cropland allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat, and neighboring non-ag properties. Water quality resource concerns are associated with this practice.

**After Situation:**

The planned filter strip will be established and maintained per the practice plan to meet the criteria for the planned purpose(s). Seeded vegetation consists of introduced grass species. The filter strip will have adequate width to filter the planned pollutants. The area of the filter strip is taken out of production and is not used as a travel lane for equipment or livestock.

**Scenario Feature Measure:** Number of acres

**Scenario Unit:** Acre

**Scenario Typical Size:** 1

**Scenario Cost:** \$847.96

**Scenario Cost/Unit:** \$847.96

**Cost Details (by category):**

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
<b>Equipment/Installation</b>						
Cultipacking	1100	Includes equipment, power unit and labor costs.	Acre	\$6.83	1	\$6.83
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$17.20	1	\$17.20
Dozer, 80 HP	929	Track mounted Dozer with horsepower range of 60 to 90. Equipment and power unit costs. Labor not included.	Hour	\$57.18	3	\$171.54
Tillage, Light	945	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$8.97	1	\$8.97
<b>Foregone Income</b>						
Fl, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$144.36	1	\$144.36
<b>Labor</b>						
Equipment Operators, Heavy	233	Includes: Cranes, Hydraulic Excavators >=50 HP, Dozers, Paving Machines, Rock Trenchers, Trenchers >=12", Dump Trucks, Ag Equipment >=150 HP, Scrapers, Water Wagons.	Hour	\$23.61	3	\$70.83
Supervisor or Manager	234	Labor involving supervision or management activities. Includes crew supervisors, foremen and farm/ranch managers time required for adopting new technology, etc.	Hour	\$37.95	3	\$113.85
<b>Materials</b>						
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	\$0.64		\$0.00
One Species, Warm Season, Introduced Perennial Grass (seed or sprigs)	2323	Introduced, warm season perennial grass seed or sprig. Includes material and shipping only.	Acre	\$64.09	1	\$64.09
Potassium, K2O	74	K2O supplied by Muriate Of Potash. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.54		\$0.00
Nitrogen (N), Urea	71	Price per pound of N supplied by Urea. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.64		\$0.00
One Species, Cool Season, Introduced Perennial Grass	2313	Introduced, cool season perennial grass. Includes material and shipping only.	Acre	\$32.72	1	\$32.72

**Mobilization**

Mobilization, medium equipment	1139	Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$217.57	1	\$217.57
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