

Practice: 393 - Filter Strip

Scenario: #1 - Introduced or Native Seeding, Field Crop Operation

Scenario Description:

A strip or area of native herbaceous vegetation situated between cropland, grazing land or disturbed land and sensitive areas. Practice includes seedbed prep and planting of native species. The area of the filter strip is taken out of production.

Associated Practices: Herbaceous Weed Control (315), Conservation Cropping Rotation (328), Critical Area Planting (342), Nutrient Management (590), Integrated Pest Management (595), Prescribed Grazing (528).

Before Situation:

Annual cropland, grazing land, or disturbed land (including forestland) 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 that will meet the criteria for the planned purpose(s). The vegetation will consist of native species. The filter strip will have adequate width to filter the planned pollutants. 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 tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure: number of acres

Scenario Unit: Acre

Scenario Typical Size: 1

Scenario Cost: \$517.34

Scenario Cost/Unit: \$517.34

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
Tillage, Light	945	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$10.70	1	\$10.70
Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$5.89	1	\$5.89
Fertilizer, ground application, dry bulk	950	Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.54	1	\$6.54
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$20.51	1	\$20.51
Foregone Income						
FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$334.10	0.5	\$167.05
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$343.51	0.25	\$85.88
FI, Wheat Dryland	1963	Dryland Wheat is Primary Crop	Acre	\$248.86	0.25	\$62.22
Materials						
Potassium, K2O	74	K2O supplied by Muriate Of Potash. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.51	50	\$25.50
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	\$15.63	1	\$15.63
One Species, Warm Season, Native Perennial Grass	2322	Native, warm season perennial grass. Includes material and shipping only.	Acre	\$70.93	1	\$70.93
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	\$0.93	50	\$46.50

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Scenario: #2 - Introduced or Native seeding, Vegetable or Fruit Operation

Scenario Description:

A strip or area of introduced herbaceous organic vegetation situated between vegetable crops, orchards, or other high value crops and sensitive areas. Practice includes seedbed prep and planting of introduced organic species. The area of the filter strip is taken out of production.

Associated Practices: Herbaceous Weed Control (315), Conservation Cropping Rotation (328), Critical Area Planting (342), Nutrient Management (590), Integrated Pest Management (595), Prescribed Grazing (528).

Before Situation:

Land in vegetables or fruit 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 that will meet the criteria for the planned purpose(s). The vegetation will consist of introduced organic species. The filter strip will have adequate width to filter the planned pollutants. 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 tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure: Number of Acres

Scenario Unit: Acre

Scenario Typical Size: 1

Scenario Cost: \$1,284.28

Scenario Cost/Unit: \$1,284.28

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
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	\$20.51	1	\$20.51
Tillage, Light	945	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$10.70	1	\$10.70
Fertilizer, ground application, dry bulk	950	Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.54	1	\$6.54
Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$5.89	1	\$5.89
Foregone Income						
FI, Vegetables	2033	Vegetables is Primary Crop	Acre	\$1,093.36	1	\$1,093.36
Materials						
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	\$0.71	50	\$35.50
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	\$0.93	50	\$46.50
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	\$15.63	1	\$15.63
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	1	\$49.65

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Scenario: #3 - Organic Seeding, Field Crop Operation

Scenario Description:

A strip or area of introduced herbaceous organic vegetation situated between cropland, grazing land or disturbed land and sensitive areas. Practice includes seedbed prep and planting of introduced organic species. The area of the filter strip is taken out of production. Associated Practices: Herbaceous Weed Control (315), Conservation Cropping Rotation (328), Critical Area Planting (342), Nutrient Management (590), Integrated Pest Management (595), Prescribed Grazing (528).

Before Situation:

Annual cropland, grazing land, or disturbed land (including forestland) 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 that will meet the criteria for the planned purpose(s). The vegetation will consist of introduced organic species. The filter strip will have adequate width to filter the planned pollutants. 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 tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure: Number of acres

Scenario Unit: Acre

Scenario Typical Size: 1

Scenario Cost: \$517.87

Scenario Cost/Unit: \$517.87

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
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	\$20.51	1	\$20.51
Fertilizer, ground application, dry bulk	950	Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.54	1	\$6.54
Tillage, Light	945	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$10.70	2	\$21.40
Foregone Income						
FI, Organic, Soybeans Dryland	2234	Organic Dryland Soybeans is Primary Crop	Acre	\$423.84	0.25	\$105.96
FI, Organic, Wheat Dryland	2236	Organic Dryland Wheat is Primary Crop	Acre	\$294.27	0.25	\$73.57
FI, Organic, Corn Dryland	2232	Organic Dryland Corn is Primary Crop	Acre	\$404.55	0.5	\$202.28
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	1	\$69.62
Phosphorus, Organic	267	ORGANIC Phosphorus	Pound	\$0.30	10	\$3.00
Nitrogen, Organic	266	ORGANIC Nitrogen	Pound	\$0.30	50	\$15.00

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Scenario: #4 - Organic Seeding, Vegetable or Fruit Operation

Scenario Description:

A strip or area of introduced herbaceous organic vegetation situated between vegetable crops, orchards, or other high value crops and sensitive areas. Practice includes seedbed prep and planting of introduced organic species. The area of the filter strip is taken out of production.

Associated Practices: Herbaceous Weed Control (315), Conservation Cropping Rotation (328), Critical Area Planting (342), Nutrient Management (590), Integrated Pest Management (595), Prescribed Grazing (528).

Before Situation:

Land in vegetables or fruit 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 that will meet the criteria for the planned purpose(s). The vegetation will consist of introduced organic species. The filter strip will have adequate width to filter the planned pollutants. 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 tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure: Number of acres

Scenario Unit: Acre

Scenario Typical Size: 1

Scenario Cost: \$1,405.44

Scenario Cost/Unit: \$1,405.44

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
Tillage, Light	945	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$10.70	2	\$21.40
Fertilizer, ground application, dry bulk	950	Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.54	1	\$6.54
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$20.51	1	\$20.51
Foregone Income						
FI, Organic, Vegetables	2252	Vegetables is Primary Crop	Acre	\$1,257.37	1	\$1,257.37
Materials						
Nitrogen, Organic	266	ORGANIC Nitrogen	Pound	\$0.30	50	\$15.00
Phosphorus, Organic	267	ORGANIC Phosphorus	Pound	\$0.30	50	\$15.00
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	1	\$69.62