

Practice: 332 - Contour Buffer Strips

Scenario: #1 - Native

Scenario Description: Narrow strips of permanent, herbaceous vegetative cover established around the hill slope and alternated down the slope with wider cropped strips in between that are farmed on the contour. This practice applies to all cropland. Practice includes seedbed prep and planting of native species. The area of the field border is taken out of production.

Before Situation: Water Erosion Calculator (e.g. RUSLE2) indicates that there is a significant amount of sheet and rill erosion and/or a significant amount of sediment potentially delivered to the downslope edge of the field. A secondary concern is that there may not be enough wildlife/pollinator habitat, food source or refugia in the field or farm.

After Situation: Native grasses, legumes and forbs will be established in strips in the field to meet the resource needs and producer objectives. Minimum widths shall be based on NRCS local design criteria specific to the purpose for installing the practice. Native species shall be selected that do not function as a host for diseases of a field crop and have physical characteristics necessary to control water erosion to tolerable levels in the cropped area of the field.

Scenario Feature Measure: number of acres

Scenario Unit: Acre

Scenario Typical Size: 1

Total Scenario Cost: \$662.68

Scenario Cost/Unit: \$662.68

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	1	\$15.93
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	\$0.78	50	\$39.21
Potassium, K2O	74	K2O supplied by Muriate Of Potash. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.44	50	\$21.78
Three plus Species Mix, Warm Season, Native Perennial	2327	Native, warm season perennial grass. Includes material and shipping only.	Acre	\$220.98	1	\$220.98

Equipment Installation

Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.05	1	\$6.05
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$21.05	1	\$21.05
Tillage, Light	945	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$10.98	1	\$10.98

Foregone Income

FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$346.36	0.5	\$173.18
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$356.12	0.25	\$89.03
FI, Wheat Dryland	1963	Dryland Wheat is Primary Crop	Acre	\$258.00	0.25	\$64.50

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Scenario: #2 - Introduced

Scenario Description: Narrow strips of permanent, herbaceous vegetative cover established around the hill slope and alternated down the slope with wider cropped strips in between that are farmed on the contour. This practice applies to all cropland. Practice includes seedbed prep and planting of mainly introduced species. The area of the field border is taken out of production.

Before Situation: Water Erosion Calculator (e.g. RUSLE2) indicates that there is a significant amount of sheet and rill erosion and/or a significant amount of sediment potentially delivered to the downslope edge of the field. A secondary concern is that there may not be enough wildlife/pollinator habitat, food source or refugia in the field or farm.

After Situation: Introduced grasses and legumes will be established in strips in the field to meet the resource needs and producer objectives. Minimum widths shall be based on NRCS local design criteria specific to the purpose for installing the practice. Introduced species shall be selected that do not function as a host for diseases of a field crop and have physical characteristics necessary to control water erosion to tolerable levels in the cropped area of the field.

Scenario Feature Measure: Number of acres

Scenario Unit: Acre

Scenario Typical Size: 1

Total Scenario Cost: \$499.62

Scenario Cost/Unit: \$499.62

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	1	\$49.65
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	1	\$15.93
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	\$0.60	50	\$30.06
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	\$0.78	50	\$39.21

Equipment Installation

Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.05	1	\$6.05
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$21.05	1	\$21.05
Tillage, Light	945	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$10.98	1	\$10.98

Foregone Income

FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$346.36	0.5	\$173.18
FI, Soybeans Dryland	1961	Dryland Soybeans is Primary Crop	Acre	\$356.12	0.25	\$89.03
FI, Wheat Dryland	1963	Dryland Wheat is Primary Crop	Acre	\$258.00	0.25	\$64.50

Practice: 332 - Contour Buffer Strips

Scenario: #3 - Organic

Scenario Description: Narrow strips of permanent, herbaceous vegetative cover established around the hill slope and alternated down the slope with wider cropped strips in between that are farmed on the contour. This practice applies to all cropland. Practice includes seedbed prep and planting of certified organic seed. The area of the field border is taken out of production.

Before Situation: Water Erosion Calculator (e.g. RUSLE2) indicates that there is a significant amount of sheet and rill erosion and/or a significant amount of sediment potentially delivered to the downslope edge of the field. A secondary concern is that there may not be enough wildlife/pollinator habitat, food source or refugia in the field or farm.

After Situation: Certified organic grass and legume seed will be planted in strips in the field to meet the resource needs and producer objectives. Minimum widths shall be based on NRCS local design criteria specific to the purpose for installing the practice. Species shall be selected that do not function as a host for diseases of a field crop and have physical characteristics necessary to control water erosion to tolerable levels in the cropped area of the field.

Scenario Feature Measure: Number of Acres

Scenario Unit: Acre

Scenario Typical Size: 1

Total Scenario Cost: \$604.11

Scenario Cost/Unit: \$604.11

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	1	\$69.62
Nitrogen, Organic	266	ORGANIC Nitrogen	Pound	\$0.25	30	\$7.52
Phosphorus, Organic	267	ORGANIC Phosphorus	Pound	\$0.25	50	\$12.49
Potassium, Organic	268	ORGANIC Potassium	Pound	\$0.25	20	\$5.00

Equipment Installation

Fertilizer, ground application, dry bulk	950	Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.77	1	\$6.77
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$21.05	1	\$21.05
Site Preparation, Mechanical	944	Aerator, rolling drum chopper, etc. Includes equipment, power unit and labor costs.	Acre	\$69.48	1	\$69.48
Tillage, Primary	946	Includes heavy disking (offset) or chisel plow. Includes equipment, power unit and labor costs.	Acre	\$16.36	1	\$16.36

Foregone Income

FI, Organic, Corn Dryland	2232	Organic Dryland Corn is Primary Crop	Acre	\$419.40	0.5	\$209.70
FI, Organic, Soybeans Dryland	2234	Organic Dryland Soybeans is Primary Crop	Acre	\$439.39	0.25	\$109.85
FI, Organic, Wheat Dryland	2236	Organic Dryland Wheat is Primary Crop	Acre	\$305.07	0.25	\$76.27