

Practice: 332 - Contour Buffer Strips

Scenario # 1 Introduced Grass

Scenario Description:

Missouri

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 conventional cropland. Practice includes seedbed prep and planting of introduced species (scenario includes non-native grass/legume species) and foregone income for the area of the buffer strip that is taken out of production.

Before Practice 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 Practice Situation:

introduced 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. 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 Typical Size:

1	Acre	Tot Unit Cost	\$590.78
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Timothy (Phleum pratense)	2	Pound	\$2.46	\$4.92
Materials	Smooth Bromegrass (Bromus inermis)	4	Pound	\$3.15	\$12.60
Materials	Herbicide, Glyphosate	1	Acre	\$11.04	\$11.04
Materials	Lime, ENM	2	Ton	\$23.98	\$47.96
Materials	Potassium, K2O	40	Pound	\$0.52	\$20.80
Materials	Phosphorus, P2O5	50	Pound	\$0.66	\$33.00
Materials	Nitrogen (N), Urea	50	Pound	\$0.60	\$30.00
Materials	Red Clover (Trifolium pratense)	4	Pound	\$2.60	\$10.40
Equip./Install.	Seeding Operation, No Till/Grass Drill	1	Acre	\$14.99	\$14.99
Equip./Install.	Fertilizer, ground application, dry bulk	1	Acre	\$7.36	\$7.36
Equip./Install.	Chemical, ground application	1	Acre	\$4.57	\$4.57
Forgone Income	FI, Soybeans Dryland	0.5	Acre	\$385.53	\$192.77
Forgone Income	FI, Corn Dryland	0.5	Acre	\$392.59	\$196.30
Materials	Orchard Grass (Dactylis glomerata)	2	Pound	\$2.04	\$4.08

Total Cost: \$590.78

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP-MRBI	\$443.09	EQIP-HUMRBI	\$531.70

Practice: 332 - Contour Buffer Strips

Scenario # 2 Native Grass

Scenario Description:

Missouri

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 conventional cropland. Practice includes seedbed prep and planting of native species (scenario includes native grass/legume/forbs species) and foregone income for the area of the buffer strip that is taken out of production.

Before Practice 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 Practice Situation:

Native grasses and legumes/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 Typical Size:

1	Acre	Tot Unit Cost	\$635.26
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Purple Coneflower (Echinacea purpurea)	0.25	Pound	\$32.78	\$8.20
Materials	Herbicide, Imazapic-NH4, salt	1	Acre	\$10.73	\$10.73
Materials	Herbicide, Glyphosate	1	Acre	\$11.04	\$11.04
Materials	Wild Rye, Virginia (Elymus virginicus)	2	Pound	\$9.81	\$19.62
Materials	Little Blue Stem (Schizachyrium scoparium)	4	Pound	\$15.43	\$61.72
Materials	Lime, ENM	2	Ton	\$23.98	\$47.96
Materials	Partidge Pea (Chamaecrista fasciculata)	4	Pound	\$15.70	\$62.80
Equip./Install.	Seeding Operation, No Till/Grass Drill	1	Acre	\$14.99	\$14.99
Equip./Install.	Chemical, ground application	2	Acre	\$4.57	\$9.14
Forgone Income	FI, Soybeans Dryland	0.5	Acre	\$385.53	\$192.77
Forgone Income	FI, Corn Dryland	0.5	Acre	\$392.59	\$196.30

Total Cost: \$635.26

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP-MRBI	\$476.44	EQIP-HUMRBI	\$571.73

Practice: 332 - Contour Buffer Strips
Scenario # 3 Introduced Grass, Organic

Scenario Description:

Missouri

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 organic cropland. Practice includes seedbed prep and planting of introduced species (scenario includes non-native grass/legume species) and foregone income for the area of the buffer strip that is taken out of production.

Before Practice 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 Practice Situation:

introduced 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. 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 Typical Size:	1	Acre	Tot Unit Cost	\$874.43
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Phosphorus, Organic	50	Pound	\$2.96	\$148.00
Materials	Certified Organic, Orchard Grass (Dactylis	2	Pound	\$5.02	\$10.04
Materials	Potassium, Organic	40	Pound	\$1.31	\$52.40
Materials	Nitrogen, Organic	50	Pound	\$2.47	\$123.50
Materials	Lime, ENM	2	Ton	\$23.98	\$47.96
Materials	Certified Organic, Alfalfa (Medicago sativa)	4	Pound	\$4.38	\$17.52
Materials	Certified Organic, Smooth Bromegrass (Bromus	4	Pound	\$4.41	\$17.64
Materials	Certified Organic, Red Clover (Trifolium	3	Pound	\$8.46	\$25.38
Equip./Install.	Seeding Operation, No Till/Grass Drill	1	Acre	\$14.99	\$14.99
Equip./Install.	Fertilizer, ground application, dry bulk	1	Acre	\$7.36	\$7.36
Equip./Install.	Tillage, Light	2	Acre	\$10.29	\$20.58
Forgone Income	FI, Soybeans Dryland	0.5	Acre	\$385.53	\$192.77
Forgone Income	FI, Corn Dryland	0.5	Acre	\$392.59	\$196.30

Total Cost: \$874.43

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP-NOI	\$655.82	EQIP-HUNOI	\$786.99

Practice: 332 - Contour Buffer Strips

Scenario # 4 Native Grass, Organic

Scenario Description:

Missouri

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 organic cropland. Practice includes seedbed prep and planting of native species (scenario includes native grass/legume/forbs species) and foregone income for the area of the buffer strip that is taken out of production.

Before Practice 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 Practice Situation:

Native grasses and legumes/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 Typical Size:

1	Acre	Tot Unit Cost	\$635.22
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Purple Coneflower (Echinacea purpurea)	0.25	Pound	\$32.78	\$8.20
Materials	Wild Rye, Virginia (Elymus virginicus)	2	Pound	\$9.81	\$19.62
Materials	Little Blue Stem (Schizachyrium scoparium)	4	Pound	\$15.43	\$61.72
Materials	Lime, ENM	2	Ton	\$23.98	\$47.96
Materials	Partidge Pea (Chamaecrista fasciculata)	4	Pound	\$15.70	\$62.80
Equip./Install.	Seeding Operation, No Till/Grass Drill	1	Acre	\$14.99	\$14.99
Equip./Install.	Tillage, Light	3	Acre	\$10.29	\$30.87
Forgone Income	FI, Soybeans Dryland	0.5	Acre	\$385.53	\$192.77
Forgone Income	FI, Corn Dryland	0.5	Acre	\$392.59	\$196.30

Total Cost: \$635.22

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP-NOI	\$476.41	EQIP-HUNOI	\$571.69

Practice: 332 - Contour Buffer Strips

Scenario # 5 Pollinator Habitat

Missouri

Scenario Description:

Narrow strips of permanent, herbaceous vegetative cover including mix of grasses, legumes and/or forbs that provides a mix of early, mid, and late season blooming forbs for pollinator habitat. 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 conventional cropland. Practice includes seedbed prep and planting of pollinator species. The area of the buffer strip is taken out of production.

Before Practice 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 Practice Situation:

Native grasses, legumes and forbs providing pollinator habitat 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 Typical Size:	1	Acre	Tot Unit Cost	\$677.62
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Blue Wild Indigo (<i>Baptisia australis</i>)	0.5	Pound	\$156.45	\$78.23
Materials	Little Blue Stem (<i>Schizachyrium scoparium</i>)	1	Pound	\$15.43	\$15.43
Materials	Wild Rye, Virginia (<i>Elymus virginicus</i>)	1	Pound	\$9.81	\$9.81
Materials	Herbicide, Imazapic-NH4, salt	1	Acre	\$10.73	\$10.73
Materials	Herbicide, Glyphosate	2	Acre	\$11.04	\$22.08
Materials	Partidge Pea (<i>Chamaecrista fasciculata</i>)	0.5	Pound	\$15.70	\$7.85
Materials	Wild Senna (<i>Cassia hebecarpa</i>)	0.5	Pound	\$68.25	\$34.13
Materials	Purple Coneflower (<i>Echinacea purpurea</i>)	0.2	Pound	\$32.78	\$6.56
Materials	Lime, ENM	2	Ton	\$23.98	\$47.96
Materials	Smooth Aster (<i>Aster laevis</i>)	0.126	Pound	\$217.74	\$27.44
Materials	Black-Eyed Susan (<i>Rudbeckia hirta</i>)	0.126	Pound	\$33.55	\$4.23
Equip./Install.	Seeding Operation, No Till/Grass Drill	1	Acre	\$14.99	\$14.99
Equip./Install.	Chemical, ground application	2	Acre	\$4.57	\$9.14
Forgone IncomFI, Soybeans Dryland		0.5	Acre	\$385.53	\$192.77
Forgone IncomFI, Corn Dryland		0.5	Acre	\$392.59	\$196.30

Total Cost: \$677.62

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP-MRBI	\$508.21	EQIP-HUMRBI	\$609.86

Practice: 332 - Contour Buffer Strips
Scenario # 6 Pollinator Habitat, Organic

Missouri

Scenario Description:

Narrow strips of permanent, herbaceous vegetative cover including mix of grasses, legumes and/or forbs that provides a mix of early, mid, and late season blooming forbs for pollinator habitat. 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 organic cropland. Practice includes seedbed prep and planting of pollinator species. The area of the buffer strip is taken out of production.

Before Practice 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 Practice Situation:

Native grasses, legumes and forbs providing pollinator habitat 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 Typical Size:	1	Acre	Tot Unit Cost	\$666.54
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Blue Wild Indigo (<i>Baptisia australis</i>)	0.5	Pound	\$156.45	\$78.23
Materials	Little Blue Stem (<i>Schizachyrium scoparium</i>)	1	Pound	\$15.43	\$15.43
Materials	Wild Rye, Virginia (<i>Elymus virginicus</i>)	1	Pound	\$9.81	\$9.81
Materials	Partidge Pea (<i>Chamaecrista fasciculata</i>)	0.5	Pound	\$15.70	\$7.85
Materials	Wild Senna (<i>Cassia hebecarpa</i>)	0.5	Pound	\$68.25	\$34.13
Materials	Purple Coneflower (<i>Echinacea purpurea</i>)	0.2	Pound	\$32.78	\$6.56
Materials	Smooth Aster (<i>Aster laevis</i>)	0.126	Pound	\$217.74	\$27.44
Materials	Black-Eyed Susan (<i>Rudbeckia hirta</i>)	0.126	Pound	\$33.55	\$4.23
Materials	Lime, ENM	2	Ton	\$23.98	\$47.96
Equip./Install.	Seeding Operation, No Till/Grass Drill	1	Acre	\$14.99	\$14.99
Equip./Install.	Tillage, Light	3	Acre	\$10.29	\$30.87
Forgone IncomFI, Soybeans Dryland		0.5	Acre	\$385.53	\$192.77
Forgone IncomFI, Corn Dryland		0.5	Acre	\$392.59	\$196.30

Total Cost: \$666.54

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP-NOI	\$499.90	EQIP-HUNOI	\$599.88