

Practice: 332 - Contour Buffer Strips

Scenario: #1 - Native species

Scenario Description:

Narrow strips of permanent, herbaceous vegetative cover established around the hill slope and alternating down the slope with wider cropped strips 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 significant amounts of either sheet and rill erosion and/or 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 refuge in the field or farm.

After Situation:

Native grasses, legumes, and forbs 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: Acres with buffer strips

Scenario Unit: Acre

Scenario Typical Size: 1

Scenario Cost: \$406.97

Scenario Cost/Unit: \$406.97

Cost Details (by category):

| Component Name | ID | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|--|------|--|------|-----------------|----------|----------|
| Equipment/Installation | | | | | | |
| Truck, Pickup | 939 | Equipment and power unit costs. Labor not included. | Hour | \$30.49 | 2 | \$60.98 |
| Tillage, Light | 945 | Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs. | Acre | \$8.65 | 1 | \$8.65 |
| Seeding Operation, No Till/Grass Drill | 960 | No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs. | Acre | \$16.58 | 1 | \$16.58 |
| Cultipacking | 1100 | Includes equipment, power unit and labor costs. | Acre | \$6.56 | 1 | \$6.56 |
| Labor | | | | | | |
| 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 | \$35.96 | 4 | \$143.84 |
| 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 | \$64.77 | 0.25 | \$16.19 |
| Three plus Species Mix, Warm Season, Native Perennial | 2327 | Native, warm season perennial grass. Includes material and shipping only. | Acre | \$205.56 | 0.75 | \$154.17 |

Practice: 332 - Contour Buffer Strips

Scenario: #2 - Introduced species

Scenario Description:

Narrow strips of permanent, herbaceous vegetative cover established around the hill slope and alternating down the slope with wider cropped strips 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 significant amounts of either sheet and rill erosion and/or 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 refuge in the field or farm.

After Situation:

Introduced grasses 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: acres with buffer strips

Scenario Unit: Acre

Scenario Typical Size: 1

Scenario Cost: \$343.18

Scenario Cost/Unit: \$343.18

Cost Details (by category):

| Component Name | ID | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|---|------|--|------|-----------------|----------|----------|
| Equipment/Installation | | | | | | |
| Ground sprigging | 1101 | Includes costs for equipment, power unit and labor. | Acre | \$78.12 | 1 | \$78.12 |
| Tillage, Light | 945 | Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs. | Acre | \$8.65 | 1 | \$8.65 |
| Truck, Pickup | 939 | Equipment and power unit costs. Labor not included. | Hour | \$30.49 | 2 | \$60.98 |
| Cultipacking | 1100 | Includes equipment, power unit and labor costs. | Acre | \$6.56 | 1 | \$6.56 |
| Labor | | | | | | |
| 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 | \$35.96 | 4 | \$143.84 |
| Materials | | | | | | |
| One Species, Warm Season, Introduced Perennial Grass (seed or sprigs) | 2323 | Native, warm season perennial grass seed or sprig. Includes material and shipping only. | Acre | \$59.62 | 0.5 | \$29.81 |
| One Species, Cool Season, Introduced Perennial Grass | 2313 | Introduced, cool season perennial grass. Includes material and shipping only. | Acre | \$30.44 | 0.5 | \$15.22 |

Practice: 332 - Contour Buffer Strips

Scenario: #3 - Native species with foregone income

Scenario Description:

Narrow strips of permanent, herbaceous vegetative cover established around the hill slope and alternating down the slope with wider cropped strips 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 significant amounts of either sheet and rill erosion and/or 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 refuge in the field or farm.

After Situation:

Native grasses, legumes, and forbs 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: Acres with buffer strips

Scenario Unit: Acre

Scenario Typical Size: 1

Scenario Cost: \$525.40

Scenario Cost/Unit: \$525.40

Cost Details (by category):

| Component Name | ID | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|--|------|--|------|-----------------|----------|----------|
| Equipment/Installation | | | | | | |
| Cultipacking | 1100 | Includes equipment, power unit and labor costs. | Acre | \$6.56 | 1 | \$6.56 |
| Seeding Operation, No Till/Grass Drill | 960 | No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs. | Acre | \$16.58 | 1 | \$16.58 |
| Tillage, Light | 945 | Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs. | Acre | \$8.65 | 1 | \$8.65 |
| Truck, Pickup | 939 | Equipment and power unit costs. Labor not included. | Hour | \$30.49 | 2 | \$60.98 |
| Foregone Income | | | | | | |
| FI, Wheat Dryland | 1963 | Dryland Wheat is Primary Crop | Acre | \$119.47 | 0.34 | \$40.62 |
| FI, Corn Dryland | 1959 | Dryland Corn is Primary Crop | Acre | \$171.22 | 0.66 | \$113.01 |
| Labor | | | | | | |
| 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 | \$35.96 | 4 | \$143.84 |
| 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 | \$64.77 | 0.5 | \$32.39 |
| Three plus Species Mix, Warm Season, Native Perennial | 2327 | Native, warm season perennial grass. Includes material and shipping only. | Acre | \$205.56 | 0.5 | \$102.78 |

Practice: 332 - Contour Buffer Strips

Scenario: #4 - Introduced species with foregone income

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 significant amounts of either sheet and rill erosion and/or 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 refuge in the field or farm.

After Situation:

Introduced grasses 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: acres with buffer strips

Scenario Unit: Acre

Scenario Typical Size: 1

Scenario Cost: \$496.81

Scenario Cost/Unit: \$496.81

Cost Details (by category):

| Component Name | ID | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|---|------|--|------|-----------------|----------|----------|
| Equipment/Installation | | | | | | |
| Truck, Pickup | 939 | Equipment and power unit costs. Labor not included. | Hour | \$30.49 | 2 | \$60.98 |
| Tillage, Light | 945 | Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs. | Acre | \$8.65 | 1 | \$8.65 |
| Cultipacking | 1100 | Includes equipment, power unit and labor costs. | Acre | \$6.56 | 1 | \$6.56 |
| Ground sprigging | 1101 | Includes costs for equipment, power unit and labor. | Acre | \$78.12 | 1 | \$78.12 |
| Foregone Income | | | | | | |
| FI, Wheat Dryland | 1963 | Dryland Wheat is Primary Crop | Acre | \$119.47 | 0.34 | \$40.62 |
| FI, Corn Dryland | 1959 | Dryland Corn is Primary Crop | Acre | \$171.22 | 0.66 | \$113.01 |
| Labor | | | | | | |
| 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 | \$35.96 | 4 | \$143.84 |
| Materials | | | | | | |
| One Species, Cool Season, Introduced Perennial Grass | 2313 | Introduced, cool season perennial grass. Includes material and shipping only. | Acre | \$30.44 | 0.5 | \$15.22 |
| One Species, Warm Season, Introduced Perennial Grass (seed or sprigs) | 2323 | Native, warm season perennial grass seed or sprig. Includes material and shipping only. | Acre | \$59.62 | 0.5 | \$29.81 |