

Scenario Worksheet

Practice and Scenario Description:

Information Type	Data
Region	Appalachian
State	North Carolina
Discipline Group	Agronomy
Practice Code/Name	386 - Field Border
Scenario ID	2
Scenario Name	Field Border, Introduced Grasses, Legumes and/or Forbs, Includes Foregone Income
Scenario Description	A strip of permanent vegetation established at the edge or around the perimeter of a field. This practice may also apply to recreation land or other land uses where agronomic crops including forages are grown. Practice includes seedbed prep and planting of introduced species. The area of the field border is taken out of production.
Before Practice Situation	Before practice conditions may vary widely. Fields may have erosion issues from wind or water, a field border may be needed to manage pest populations, protect soil and water quality, provide wildlife food and cover, provide pollinator habitat, or a field border may be used to increase carbon storage and improve air quality. Water quality, soil erosion and/or wildlife food and cover may all be primary resource concerns.
After Practice Situation	This practice when applied around a field will support and connect other buffer practices within and between fields. Introduced grasses and legumes will be established around the field edges to the extent needed to meet the resource needs and producer objectives. Minimum field border widths shall be based on NRCS local design criteria specific to the purpose for installing the practice. Introduced species of grasses, legumes, forbs or shrubs shall be selected that are adapted to site, will not function as a host for diseases of a field crop and have physical characteristics necessary to control wind and water erosion to tolerable levels on the field border area.
Scenario Feature Measure	Number of acres
Scenario Unit	Acre
Scenario Typical Size	2

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$212.72	\$106.36
Equipment/Installation	\$51.94	\$25.97
Labor	\$0.00	\$0.00
Mobilization	\$0.00	\$0.00
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$364.49	\$182.24
Total	\$629.15	\$314.57

Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	109	Ladino Clover (Trifolium repens)	Introduced Legumes and shipping.	Pound	\$3.74	4	\$14.96
Materials	74	Potassium, K2O	K2O supplied by Muriate Of Potash. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.52	80	\$41.60
Materials	73	Phosphorus, P2O5	Price per pound of P2O5 supplied by Superphosphate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.78	80	\$62.40
Materials	71	Nitrogen (N), Urea	Price per pound of N supplied by Urea. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.59	80	\$47.20
Materials	92	Orchard Grass (Dactylis glomerata)	Introduced Perennial Grasses and shipping.	Pound	\$2.04	12	\$24.48
Materials	334	Herbicide, Glyphosate	A broad-spectrum, non-selective systemic herbicide. Product is typically used in these practices 340, 645, 314, 666, and 512. Refer to WIN-PST for product names and active ingredients. Materials only.	Acre	\$11.04	2	\$22.08
Equipment/Installation	960	Seeding Operation, No Till/Grass Drill	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$14.46	2	\$28.92
Equipment/Installation	950	Fertilizer, ground application, dry bulk	Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$7.10	2	\$14.20
Equipment/Installation	948	Chemical, ground application	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$4.41	2	\$8.82
Foregone Income	1963	FI, Wheat Dryland	Dryland Wheat is Primary Crop	Acre	\$193.71	0.67	\$129.79
Foregone Income	1961	FI, Soybeans Dryland	Dryland Soybeans is Primary Crop	Acre	\$182.61	0.67	\$122.35
Foregone Income	1959	FI, Corn Dryland	Dryland Corn is Primary Crop	Acre	\$167.69	0.67	\$112.35

Scenario Worksheet

Practice and Scenario Description:

Information Type	Data
Region	Appalachian
State	North Carolina
Discipline Group	Agronomy
Practice Code/Name	386 - Field Border
Scenario ID	3
Scenario Name	Field Border, Mixed Grasses, Legumes and/or Forbs, Includes Foregone Income
Scenario Description	A strip of permanent vegetation established at the edge or around the perimeter of a field. This practice may also apply to recreation land or other land uses where agronomic crops including forages are grown. Practice includes seedbed prep and planting of introduced species. The area of the field border is taken out of production.
Before Practice Situation	Before practice conditions may vary widely. Fields may have erosion issues from wind or water, a field border may be needed to manage pest populations, protect soil and water quality, provide wildlife food and cover, provide pollinator habitat, or a field border may be used to increase carbon storage and improve air quality. Water quality, soil erosion and/or wildlife food and cover may all be primary resource concerns.
After Practice Situation	This practice when applied around a field will support and connect other buffer practices within and between fields. Introduced grasses and legumes will be established around the field edges to the extent needed to meet the resource needs and producer objectives. Minimum field border widths shall be based on NRCS local design criteria specific to the purpose for installing the practice. Introduced species of grasses, legumes, forbs or shrubs shall be selected that are adapted to site, will not function as a host for diseases of a field crop and have physical characteristics necessary to control wind and water erosion to tolerable levels on the field border area.
Scenario Feature Measure	Number of acres
Scenario Unit	Acre
Scenario Typical Size	2

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$244.12	\$122.06
Equipment/Installation	\$51.94	\$25.97
Labor	\$0.00	\$0.00
Mobilization	\$0.00	\$0.00
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$364.49	\$182.24
Total	\$660.55	\$330.27

Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	125	Partidge Pea (Chamaecrista fasciculata)	Native Legumes and shipping.	Pound	\$15.70	2	\$31.40
Materials	109	Ladino Clover (Trifolium repens)	Introduced Legumes and shipping.	Pound	\$3.74	4	\$14.96
Materials	74	Potassium, K2O	K2O supplied by Muriate Of Potash. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.52	80	\$41.60
Materials	73	Phosphorus, P2O5	Price per pound of P2O5 supplied by Superphosphate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.78	80	\$62.40
Materials	71	Nitrogen (N), Urea	Price per pound of N supplied by Urea. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.59	80	\$47.20
Materials	92	Orchard Grass (Dactylis glomerata)	Introduced Perennial Grasses and shipping.	Pound	\$2.04	12	\$24.48
Materials	334	Herbicide, Glyphosate	A broad-spectrum, non-selective systemic herbicide. Product is typically used in these practices 340, 645, 314, 666, and 512. Refer to WIN-PST for product names and active ingredients. Materials only.	Acre	\$11.04	2	\$22.08
Equipment/Installation	960	Seeding Operation, No Till/Grass Drill	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$14.46	2	\$28.92
Equipment/Installation	950	Fertilizer, ground application, dry bulk	Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$7.10	2	\$14.20
Equipment/Installation	948	Chemical, ground application	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$4.41	2	\$8.82
Foregone Income	1963	FI, Wheat Dryland	Dryland Wheat is Primary Crop	Acre	\$193.71	0.67	\$129.79
Foregone Income	1961	FI, Soybeans Dryland	Dryland Soybeans is Primary Crop	Acre	\$182.61	0.67	\$122.35
Foregone Income	1959	FI, Corn Dryland	Dryland Corn is Primary Crop	Acre	\$167.69	0.67	\$112.35

Scenario Worksheet

Practice and Scenario Description:

Information Type	Data
Region	Appalachian
State	North Carolina
Discipline Group	Agronomy
Practice Code/Name	386 - Field Border
Scenario ID	1
Scenario Name	Field Border-Native Grasses, Legumes and/or Forbs, Includes Forgone Income
Scenario Description	A strip of permanent vegetation established at the edge or around the perimeter of a field. This practice may also apply to recreation land or other land uses where agronomic crops including forages are grown. Practice includes seedbed prep and planting of native species. The area of the field border is taken out of production. Before practice conditions may vary widely. Fields may have erosion issues from wind or water, a field border may be needed to manage pest populations, protect soil and water quality, provide wildlife food and cover, provide pollinator habitat, or a field border may be used to increase carbon storage and improve air quality. Water quality, soil erosion and/or wildlife food and cover may all be primary resource concerns.
Before Practice Situation	
After Practice Situation	This practice when applied around a field will support and connect other buffer practices within and between fields. Native grasses, legumes and forbs will be established around the field edges to the extent needed to meet the resource needs and producer objectives. Minimum field border 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 wind and water erosion to tolerable levels on the field border area.
Scenario Feature Measure	number of acres
Scenario Unit	Acre
Scenario Typical Size	2

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$214.48	\$107.24
Equipment/Installation	\$37.74	\$18.87
Labor	\$0.00	\$0.00
Mobilization	\$0.00	\$0.00
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$364.49	\$182.24
Total	\$616.71	\$308.35

Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	82	Switchgrass, Blackwell (Panicum virgatum)	Native Grasses and shipping.	Pound	\$9.62	20	\$192.40
Materials	334	Herbicide, Glyphosate	A broad-spectrum, non-selective systemic herbicide. Product is typically used in these practices 340, 645, 314, 666, and 512. Refer to WIN-PST for product names and active ingredients. Materials only.	Acre	\$11.04	2	\$22.08
Equipment/Installation	960	Seeding Operation, No Till/Grass Drill	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$14.46	2	\$28.92
Equipment/Installation	948	Chemical, ground application	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$4.41	2	\$8.82
Foregone Income	1963	FI, Wheat Dryland	Dryland Wheat is Primary Crop	Acre	\$193.71	0.67	\$129.79
Foregone Income	1961	FI, Soybeans Dryland	Dryland Soybeans is Primary Crop	Acre	\$182.61	0.67	\$122.35
Foregone Income	1959	FI, Corn Dryland	Dryland Corn is Primary Crop	Acre	\$167.69	0.67	\$112.35

Scenario Worksheet

Practice and Scenario Description:

Information Type	Data
Region	Appalachian
State	North Carolina
Discipline Group	Agronomy
Practice Code/Name	386 - Field Border
Scenario ID	6
Scenario Name	Field Border-Organic Seed, Includes Foregone Income
Scenario Description	A strip of permanent vegetation established at the edge or around the perimeter of a field. This practice may also apply to recreation land or other land uses where agronomic crops including forages are grown. Practice includes seedbed prep and planting of organic seed for herbaceous species. The area of the field border is taken out of production.
Before Practice Situation	Before practice conditions may vary widely. Fields may have erosion issues from wind or water, a field border may be needed to manage pest populations, protect soil and water quality, provide wildlife food and cover, provide pollinator habitat, or a field border may be used to increase carbon storage and improve air quality. Water quality, soil erosion and/or wildlife food and cover may all be primary resource concerns.
After Practice Situation	This practice when applied around a field will support and connect other buffer practices while creating a buffer between organic systems and conventional cropping systems. Organic grasses and legumes will be established around the field edges to the extent needed to meet the resource needs and producer objectives. Minimum field border widths shall be based on NRCS local design criteria specific to the purpose for installing the practice. Species selected shall be adapted to site, not function as a host for diseases of a field crop and have physical characteristics necessary to control wind and water erosion to tolerable levels on the field border area.
Scenario Feature Measure	Number of Acres
Scenario Unit	Acre
Scenario Typical Size	1

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$61.23	\$61.23
Equipment/Installation	\$89.62	\$89.62
Labor	\$0.00	\$0.00
Mobilization	\$0.00	\$0.00
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$364.49	\$364.49
Total	\$515.34	\$515.34

Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	114	Certified Organic, Alfalfa (Medicago sativa)	Introduced Legumes and shipping.	Pound	\$4.38	5	\$21.90
Materials	102	Certified Organic, Smooth Bromegrass (Bromus inermis)	Introduced Perennial Grasses and shipping.	Pound	\$4.41	5	\$22.05
Materials	98	Certified Organic, Fescue, Tall (Festuca arundinacea)	Introduced Perennial Grasses and shipping.	Pound	\$4.32	4	\$17.28
Equipment/Installation	960	Seeding Operation, No Till/Grass Drill	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$14.46	1	\$14.46
Equipment/Installation	944	Site Preparation, Mechanical	Aerator, rolling drum chopper, etc. Includes equipment, power unit and labor costs.	Acre	\$60.12	1	\$60.12
Equipment/Installation	946	Tillage, Primary	Includes heavy disking (offset) or chisel plow. Includes equipment, power unit and labor costs.	Acre	\$15.04	1	\$15.04
Foregone Income	1963	FI, Wheat Dryland	Dryland Wheat is Primary Crop	Acre	\$193.71	0.67	\$129.79
Foregone Income	1961	FI, Soybeans Dryland	Dryland Soybeans is Primary Crop	Acre	\$182.61	0.67	\$122.35
Foregone Income	1959	FI, Corn Dryland	Dryland Corn is Primary Crop	Acre	\$167.69	0.67	\$112.35

Scenario Worksheet

Practice and Scenario Description:

Information Type	Data
Region	Appalachian
State	North Carolina
Discipline Group	Agronomy
Practice Code/Name	386 - Field Border
Scenario ID	5
Scenario Name	Field Border-Pollinator Species, Includes Forgone Income
Scenario Description	A strip of permanent vegetation established at the edge or around the perimeter of a field. This practice may also apply to recreation land or other land uses where agronomic crops including forages are grown. Practice includes seedbed prep and planting of pollinator friendly herbaceous species. The area of the field border is taken out of production.
Before Practice Situation	Before practice conditions may vary widely. Fields may have erosion issues from wind or water, a field border may be needed to manage pest populations, protect soil and water quality, provide wildlife food and cover, provide pollinator habitat, or a field border may be used to increase carbon storage and improve air quality. Water quality, soil erosion and/or wildlife food and cover may all be primary resource concerns.
After Practice Situation	This practice when applied around a field will support and connect other buffer practices within and between fields. Pollinator herbaceous plantings will provide species which flower throughout the growing season. This provides a source of nectar for adult pollinators and a diversity of herbaceous material for immature pollinator life stages and for nesting. Minimum field border widths shall be based on NRCS local design criteria specific to the purpose for installing the practice. Species selected shall meet the pollinator habitat requirements of the state and be adapted to site; not function as a host for diseases of a field crop and; have physical characteristics necessary to control wind and water erosion to tolerable levels on the field border area.
Scenario Feature Measure	Number of acres
Scenario Unit	Acre
Scenario Typical Size	1

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$740.00	\$740.00
Equipment/Installation	\$18.87	\$18.87
Labor	\$0.00	\$0.00
Mobilization	\$0.00	\$0.00
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$364.49	\$364.49
Total	\$1,123.36	\$1,123.36

Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	120	Canadian Milk Vetch (Astragalus canadensis)	Native Legumes and shipping.	Pound	\$64.70	7	\$452.90
Materials	136	Purple Coneflower (Echinacea purpurea)	Native Forbs and shipping.	Pound	\$32.78	3	\$98.34
Materials	78	Indian Grass, Tomahawk (Sorghastrum nutans)	Native Grasses and shipping.	Pound	\$12.63	2	\$25.26
Materials	84	Wild Rye, Virginia (Elymus virginicus)	Native Grasses and shipping.	Pound	\$9.81	1	\$9.81
Materials	79	Little Blue Stem (Schizachyrium scoparium)	Native Grasses and shipping.	Pound	\$15.43	2	\$30.86
Materials	334	Herbicide, Glyphosate	A broad-spectrum, non-selective systemic herbicide. Product is typically used in these practices 340, 645, 314, 666, and 512. Refer to WIN-PST for product names and active ingredients. Materials only.	Acre	\$11.04	1	\$11.04
Materials	148	Black-Eyed Susan (Rudbeckia hirta)	Native Forbs and shipping.	Pound	\$33.55	1	\$33.55
Materials	154	Blue Vervain (Verbena hastata)	Native Forbs and shipping.	Pound	\$78.24	1	\$78.24
Equipment/Installation	960	Seeding Operation, No Till/Grass Drill	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$14.46	1	\$14.46
Equipment/Installation	948	Chemical, ground application	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$4.41	1	\$4.41
Foregone Income	1963	FI, Wheat Dryland	Dryland Wheat is Primary Crop	Acre	\$193.71	0.67	\$129.79
Foregone Income	1961	FI, Soybeans Dryland	Dryland Soybeans is Primary Crop	Acre	\$182.61	0.67	\$122.35
Foregone Income	1959	FI, Corn Dryland	Dryland Corn is Primary Crop	Acre	\$167.69	0.67	\$112.35

Scenario Worksheet

Practice and Scenario Description:

Information Type	Data
Region	Appalachian
State	North Carolina
Discipline Group	Agronomy
Practice Code/Name	386 - Field Border
Scenario ID	4
Scenario Name	Field Border, Wildlife Mixture of Grasses, Legumes and/or Forbs, Includes Foregone Income
Scenario Description	A strip of permanent vegetation established at the edge or around the perimeter of a field. This practice may also apply to recreation land or other land uses where agronomic crops including forages are grown. Practice includes seedbed prep and planting of introduced species. The area of the field border is taken out of production.
Before Practice Situation	Before practice conditions may vary widely. Fields may have erosion issues from wind or water, a field border may be needed to manage pest populations, protect soil and water quality, provide wildlife food and cover, provide pollinator habitat, or a field border may be used to increase carbon storage and improve air quality. Water quality, soil erosion and/or wildlife food and cover may all be primary resource concerns.
After Practice Situation	This practice when applied around a field will support and connect other buffer practices within and between fields. Introduced grasses and legumes will be established around the field edges to the extent needed to meet the resource needs and producer objectives. Minimum field border widths shall be based on NRCS local design criteria specific to the purpose for installing the practice. Introduced species of grasses, legumes, forbs or shrubs shall be selected that are adapted to site, will not function as a host for diseases of a field crop and have physical characteristics necessary to control wind and water erosion to tolerable levels on the field border area.
Scenario Feature Measure	Number of acres
Scenario Unit	Acre
Scenario Typical Size	2

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$253.16	\$126.58
Equipment/Installation	\$51.94	\$25.97
Labor	\$0.00	\$0.00
Mobilization	\$0.00	\$0.00
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$364.49	\$182.24
Total	\$669.59	\$334.79

Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	110	Lespedeza, Korean, Annual (Kummerowia stipulacea)	Introduced Legumes and shipping.	Pound	\$2.67	4	\$10.68
Materials	125	Partidge Pea (Chamaecrista fasciculata)	Native Legumes and shipping.	Pound	\$15.70	2	\$31.40
Materials	74	Potassium, K2O	K2O supplied by Muriate Of Potash. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.52	80	\$41.60
Materials	73	Phosphorus, P2O5	Price per pound of P2O5 supplied by Superphosphate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.78	80	\$62.40
Materials	71	Nitrogen (N), Urea	Price per pound of N supplied by Urea. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.59	80	\$47.20
Materials	96	Redtop (Agrostis gigantea)	Introduced Perennial Grasses and shipping.	Pound	\$9.45	4	\$37.80
Materials	334	Herbicide, Glyphosate	A broad-spectrum, non-selective systemic herbicide. Product is typically used in these practices 340, 645, 314, 666, and 512. Refer to WIN-PST for product names and active ingredients. Materials only.	Acre	\$11.04	2	\$22.08
Equipment/Installation	960	Seeding Operation, No Till/Grass Drill	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$14.46	2	\$28.92
Equipment/Installation	950	Fertilizer, ground application, dry bulk	Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$7.10	2	\$14.20
Equipment/Installation	948	Chemical, ground application	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$4.41	2	\$8.82
Foregone Income	1963	FI, Wheat Dryland	Dryland Wheat is Primary Crop	Acre	\$193.71	0.67	\$129.79
Foregone Income	1961	FI, Soybeans Dryland	Dryland Soybeans is Primary Crop	Acre	\$182.61	0.67	\$122.35
Foregone Income	1959	FI, Corn Dryland	Dryland Corn is Primary Crop	Acre	\$167.69	0.67	\$112.35