

Practice: 512 - Forage and Biomass Planting

Scenario # 1 Seeding - Native Perennial Grass (1 species)

Scenario Description:

Louisiana

Establish or reseed adapted perennial native grasses to improve or maintain livestock/wildlife nutrition and health, extend the length of the grazing season, and provide soil cover to reduce erosion. Used for either conventional or no-till seeding of native grasses for pasture, hayland, and wildlife openings. This practice may be utilized for organic or regular production. This scenario assumes fertilizer, seed, equipment and labor for seed bed prep, tillage, seeding ,and spreading.

Before Practice Situation:

Poorly managed/degraded pasture land or cropland being converted to pasture and/or hay.

After Practice Situation:

Suitable species are established to improve forage quality and quantity and reduce soil erosion on cropland ,hayland, pasture, and/or biomass production.

Scenario Feature Measure:

Acres of Forage and Biomass Planting

Scenario Typical Size:	30	Acre	Unit Cost	\$295.48
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Switchgrass, Blackwell (<i>Panicum virgatum</i>)	180	Pound	\$9.62	\$1,731.60
Materials	Herbicide, Glyphosate	30	Acre	\$11.04	\$331.20
Materials	Lime, ENM	60	Ton	\$49.57	\$2,974.20
Materials	Potassium, K2O	1500	Pound	\$0.52	\$780.00
Materials	Phosphorus, P2O5	1500	Pound	\$0.78	\$1,170.00
Equip./Install.	Lime application	30	Acre	\$9.47	\$284.10
Equip./Install.	Cultipacking	30	Acre	\$7.67	\$230.10
Equip./Install.	Tillage, Light	30	Acre	\$8.86	\$265.80
Equip./Install.	Tillage, Primary	30	Acre	\$13.42	\$402.60
Equip./Install.	Chemical, ground application	30	Acre	\$3.93	\$117.90
Equip./Install.	Fertilizer, ground application, dry bulk	30	Acre	\$6.33	\$189.90
Equip./Install.	Seeding Operation, No Till/Grass Drill	30	Acre	\$12.90	\$387.00
				Total Cost:	\$8,864.40

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Scenario # 2 Seeding-Native Perennial Grasses (4 species)

Scenario Description:

Louisiana

Establish or reseed adapted perennial native warm season grasses to improve or maintain livestock/wildlife nutrition and health, extend the length of the grazing season, and provide soil cover to reduce erosion. Used for either conventional or no-till seeding of perennial native warm season grasses for pasture, hayland, and wildlife openings. This practice may be utilized for organic or regular production. This scenario assumes fertilizer, seed, equipment and labor for seed bed prep, tillage, seeding ,and spreading.

Before Practice Situation:

Existing stand of perennial grasses or monoculture or no grasses present. Resource concerns may include undesirable plant productivity and health, inadequate feed and forage for livestock, soil erosion and soil quality.

After Practice Situation:

Suitable NWSG species are established to improve forage quality and quantity and reduce soil erosion on cropland, hayland, pasture and/or biomass production.

Scenario Feature Measure:

Acres of Forage and Biomass Planting

Scenario Typical Size:	30	Acre	Unit Cost	\$381.20
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Switchgrass, Blackwell (<i>Panicum virgatum</i>)	60	Pound	\$9.62	\$577.20
Materials	Herbicide, Glyphosate	30	Acre	\$11.04	\$331.20
Materials	Indian Grass, Tomahawk (<i>Sorghastrum nutans</i>)	78	Pound	\$12.63	\$985.14
Materials	Big Blue Stem (<i>Andropogon gerardii</i>)	78	Pound	\$11.81	\$921.18
Materials	Lime, ENM	60	Ton	\$49.57	\$2,974.20
Materials	Potassium, K2O	1500	Pound	\$0.52	\$780.00
Materials	Little Blue Stem (<i>Schizachyrium scoparium</i>)	120	Pound	\$15.43	\$1,851.60
Materials	Phosphorus, P2O5	1500	Pound	\$0.78	\$1,170.00
Equip./Install.	Lime application	30	Acre	\$9.47	\$284.10
Equip./Install.	Cultipacking	30	Acre	\$7.67	\$230.10
Equip./Install.	Tillage, Light	30	Acre	\$8.86	\$265.80
Equip./Install.	Tillage, Primary	30	Acre	\$13.42	\$402.60
Equip./Install.	Chemical, ground application	30	Acre	\$3.93	\$117.90
Equip./Install.	Seeding Operation, Broadcast, Ground	30	Acre	\$18.17	\$545.10
				Total Cost:	\$11,436.12

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Scenario # 3 Seeding- Introduced Perennial Cool Season Grasses

Louisiana

Scenario Description:

Establish or reseed adapted perennial introduced cool season grasses to improve or maintain livestock/wildlife nutrition and health, extend the length of the grazing season, and provide soil cover to reduce erosion. Used for either conventional or no-till seeding of perennial introduced cool season grasses for pasture, hayland, and wildlife openings. This practice may be utilized for organic or regular production. This scenario assumes fertilizer, seed, equipment and labor for seed bed prep, tillage, seeding ,and spreading.

Before Practice Situation:

Poor or nonexistent stand of grass species. Resource concerns may include undesirable plant productivity and health, inadequate feed and forage for livestock, soil erosion and soil quality.

After Practice Situation:

Suitable species are established to improve forage quality and quantity and reduce soil erosion on cropland ,hayland, pasture, and/or biomass production.

Scenario Feature Measure:

Acres of Forage and Biomass Planting

Scenario Typical Size:	30	Acre	Unit Cost	\$291.76
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Herbicide, Glyphosate	30	Acre	\$11.04	\$331.20
Materials	Fescue, Tall (Festuca arundinacea)	450	Pound	\$1.80	\$810.00
Materials	Lime, ENM	60	Ton	\$49.57	\$2,974.20
Materials	Potassium, K2O	1500	Pound	\$0.52	\$780.00
Materials	Nitrogen (N), Ammonium Nitrate	1200	Pound	\$0.78	\$936.00
Materials	Phosphorus, P2O5	1500	Pound	\$0.78	\$1,170.00
Equip./Install.	Cultipacking	30	Acre	\$7.67	\$230.10
Equip./Install.	Tillage, Light	30	Acre	\$8.86	\$265.80
Equip./Install.	Tillage, Primary	30	Acre	\$13.42	\$402.60
Equip./Install.	Chemical, ground application	30	Acre	\$3.93	\$117.90
Equip./Install.	Fertilizer, ground application, dry bulk	30	Acre	\$6.33	\$189.90
Equip./Install.	Seeding Operation, Broadcast, Ground	30	Acre	\$18.17	\$545.10
				Total Cost:	\$8,752.80

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Scenario # 4 Seeding-Introduced Perennial Warm Season Grasses.

Scenario Description:

Louisiana

Establish or reseed adapted introduced warm season grasses to improve or maintain livestock/wildlife nutrition and health, extend the length of the grazing season, and provide soil cover to reduce erosion. Used for either conventional or no-till seeding of perennial introduced warm season grasses for pasture, hayland, and wildlife openings. This practice may be utilized for organic or regular production. This scenario assumes fertilizer, seed, equipment and labor for seed bed prep, tillage, seeding ,and spreading.

Before Practice Situation:

Existing stand of perennial grasses or monoculture or no grasses present. Resource concerns may include undesirable plant productivity and health, inadequate feed and forage for livestock, soil erosion and soil quality.

After Practice Situation:

Suitable species are established to improve forage quality and quantity and reduce soil erosion on cropland ,hayland, pasture, and/or biomass production.

Scenario Feature Measure:

Acres of Forage and Biomass Planting

Scenario Typical Size:	30	Acre	Unit Cost	\$280.44
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Bermuda Grass (Cynodon dactylon)	120	Pound	\$3.92	\$470.40
Materials	Herbicide, Glyphosate	30	Acre	\$11.04	\$331.20
Materials	Lime, ENM	60	Ton	\$49.57	\$2,974.20
Materials	Potassium, K2O	1500	Pound	\$0.52	\$780.00
Materials	Nitrogen (N), Ammonium Nitrate	1200	Pound	\$0.78	\$936.00
Materials	Phosphorus, P2O5	1500	Pound	\$0.78	\$1,170.00
Equip./Install.	Cultipacking	30	Acre	\$7.67	\$230.10
Equip./Install.	Tillage, Light	30	Acre	\$8.86	\$265.80
Equip./Install.	Tillage, Primary	30	Acre	\$13.42	\$402.60
Equip./Install.	Chemical, ground application	30	Acre	\$3.93	\$117.90
Equip./Install.	Fertilizer, ground application, dry bulk	30	Acre	\$6.33	\$189.90
Equip./Install.	Seeding Operation, Broadcast, Ground	30	Acre	\$18.17	\$545.10
				Total Cost:	\$8,413.20

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Scenario # 5 Sprigging - Introduced Grass

Scenario Description:

Louisiana

Sprigging new grasses with sprigging application for the purpose of providing forage, increasing plant diversity, soil quality and fertility, and plant health. This practice may be utilized for organic or regular production. This scenario assumes fertilizer, sprigs, equipment and labor for seed bed prep, tillage, sprigging ,and spreading.

Before Practice Situation:

Poor or nonexistent stand of grass species. Resource concerns may include undesirable plant productivity and health, inadequate feed and forage for livestock, soil erosion and soil quality.

After Practice Situation:

Suitable species are established to improve forage quality and quantity and reduce soil erosion on cropland ,hayland, pasture, and/or biomass production.

Scenario Feature Measure:

Acres of Forage and Biomass Planting

Scenario Typical Size:	30	Acre	Unit Cost	\$398.43
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Bermuda Grass, Sprigs (Cynodon dactylon)	600	Bushel	\$3.56	\$2,136.00
Materials	Herbicide, Glyphosate	30	Acre	\$11.04	\$331.20
Materials	Lime, ENM	60	Ton	\$49.57	\$2,974.20
Materials	Potassium, K2O	1500	Pound	\$0.52	\$780.00
Materials	Nitrogen (N), Ammonium Nitrate	1200	Pound	\$0.78	\$936.00
Materials	Phosphorus, P2O5	1500	Pound	\$0.78	\$1,170.00
Equip./Install.	Ground sprigging	30	Acre	\$80.64	\$2,419.20
Equip./Install.	Cultipacking	30	Acre	\$7.67	\$230.10
Equip./Install.	Tillage, Light	30	Acre	\$8.86	\$265.80
Equip./Install.	Tillage, Primary	30	Acre	\$13.42	\$402.60
Equip./Install.	Chemical, ground application	30	Acre	\$3.93	\$117.90
Equip./Install.	Fertilizer, ground application, dry bulk	30	Acre	\$6.33	\$189.90
				Total Cost:	\$11,952.90

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Scenario # 6 Overseeding Legumes

Scenario Description:

Louisiana

Establishment of legumes for the purpose of increasing plant diversity, soil quality and fertility, and plant health and enhancing the quality of forage. This practice may be utilized for organic or regular production. This scenario assumes fertilizer, seed, equipment and labor for seed bed prep, tillage, seeding ,and spreading.

Before Practice Situation:

Existing stand of perennial grasses or monoculture with no legumes present.

After Practice Situation:

Legumes will be maintained through proper grazing management and improve plant diversity and soil quality.

Scenario Feature Measure:

Acres of Forage and Biomass Planting

Scenario Typical Size:	30	Acre	Unit Cost	\$194.59
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Ladino Clover (Trifolium repens)	90	Pound	\$3.74	\$336.60
Materials	Lime, ENM	60	Ton	\$49.57	\$2,974.20
Materials	Potassium, K2O	1500	Pound	\$0.52	\$780.00
Materials	Phosphorus, P2O5	1500	Pound	\$0.78	\$1,170.00
Equip./Install.	Fertilizer, ground application, dry bulk	30	Acre	\$6.33	\$189.90
Equip./Install.	Seeding Operation, No Till/Grass Drill	30	Acre	\$12.90	\$387.00
				Total Cost:	\$5,837.70

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Scenario # 7 Seeding - Native Perennial Grasses and Forbs

Louisiana

Scenario Description:

Establish or reseed adapted perennial native warm season grasses and forbs to improve or maintain livestock/wildlife nutrition and health, extend the length of the grazing season, and provide soil cover to reduce erosion. Used for either conventional or no-till seeding of perennial native warm season grasses for pasture, hayland, and wildlife openings. This practice may be utilized for organic or regular production. This scenario assumes fertilizer, seed, equipment and labor for seed bed prep, tillage, seeding, and spreading.

Before Practice Situation:

Existing stand of perennial grasses or monoculture or no grasses present. Resource concerns may include undesirable plant productivity and health, inadequate feed and forage for livestock, soil erosion and soil quality.

After Practice Situation:

Suitable NWSG and forb species are established to improve forage quality and quantity and reduce soil erosion on cropland, hayland, pasture and/or biomass production.

Scenario Feature Measure:

Acres of Forage and Biomass Planting

Scenario Typical Size:	30	Acre	Unit Cost	\$436.80
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Herbicide, Glyphosate	30	Acre	\$11.04	\$331.20
Materials	Illinois Bundleflower (Desmanthus illinoensis)	90	Pound	\$27.94	\$2,514.60
Materials	Partidge Pea (Chamaecrista fasciculata)	30	Pound	\$15.70	\$471.00
Materials	Indian Grass, Tomahawk (Sorghastrum nutans)	90	Pound	\$12.63	\$1,136.70
Materials	Big Blue Stem (Andropogon gerardii)	90	Pound	\$11.81	\$1,062.90
Materials	Lime, ENM	60	Ton	\$49.57	\$2,974.20
Materials	Potassium, K2O	1500	Pound	\$0.52	\$780.00
Materials	Little Blue Stem (Schizachyrium scoparium)	53	Pound	\$15.43	\$817.79
Materials	Phosphorus, P2O5	1500	Pound	\$0.78	\$1,170.00
Equip./Install.	Lime application	30	Acre	\$9.47	\$284.10
Equip./Install.	Cultipacking	30	Acre	\$7.67	\$230.10
Equip./Install.	Tillage, Light	30	Acre	\$8.86	\$265.80
Equip./Install.	Tillage, Primary	30	Acre	\$13.42	\$402.60
Equip./Install.	Chemical, ground application	30	Acre	\$3.93	\$117.90
Equip./Install.	Seeding Operation, Broadcast, Ground	30	Acre	\$18.17	\$545.10
				Total Cost:	\$13,103.99