

**Practice: 342 - Critical Area Planting**  
**Scenario # 1 Grass or Grass/legume mix**

Missouri

**Scenario Description:**

Establishment of permanent vegetation on a site that is void or nearly void of vegetation due to a natural occurrence or a newly constructed conservation practice. Costs include seedbed preparation with typical tillage implements, grass/legume seed, companion crop, and fertilizer and lime with application.

**Before Practice Situation:**

Areas that are void or nearly void of vegetation, resulting in bare soil being exposed to erosive processes. The exposed areas may be caused from recent natural occurrences (fire, flood, wind, etc.) or due to newly constructed conservation practices such as waterways, terraces, water and sediment basins or dams. The exposed areas will be subject to wind erosion, sheet and rill erosion, or visible rills may have already occurred. Runoff from the area flows into streams, water courses or other water bodies causing degradation to the receiving waters. The soil typically has a pH imbalance and low fertility.

**After Practice Situation:**

This typical 1.0 acre critical area is stabilized by applying fertilizer, lime and seed. Soil amendments will be incorporated at an depth of six inches to improve fertility and ensure establishment of permanent vegetative cover. Apply 90 lbs of nitrogen, 90 lbs of phosphorus, and 90 lbs of potassium, along with an application of 2 tons of lime. Prepare a firm, weed free seedbed so that proper germination and stand establishment are ensured. Once the seedbed has been prepared, drill the following mixture for a vegetative cover: Smooth Bromegrass (20 lbs/ac), Perennial Ryegrass (10 lbs/ac), and Red Clover (8 lbs/ac) with a nurse crop of oats at a seeding rate of 32 lbs per acre.

**Scenario Feature Measure:**

area seeded

<b>Scenario Typical Size:</b>	1	Acre	Tot Unit Cost	\$376.68
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Red Clover (Trifolium pratense)	8	Pound	\$2.60	\$20.80
Materials	Oats (Avena sativa)	32	Pound	\$0.46	\$14.72
Materials	Lime, ENM	2	Ton	\$23.98	\$47.96
Materials	Nitrogen (N), Urea	90	Pound	\$0.60	\$54.00
Materials	Phosphorus, P2O5	90	Pound	\$0.66	\$59.40
Materials	Potassium, K2O	90	Pound	\$0.52	\$46.80
Materials	Smooth Bromegrass (Bromus inermis)	20	Pound	\$3.15	\$63.00
Materials	Perennial Ryegrass (Lolium perenne)	10	Pound	\$1.94	\$19.40
Equip./Install.	Cultipacking	1	Acre	\$7.67	\$7.67
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

Total Cost: \$376.68

**Payment types:**

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$282.51	EQIP-HU	\$339.01
WHIP	\$282.51	WHIP-HU	\$339.01
EQIP-CCPI	\$282.51	EQIP-HUCCPI	\$339.01
EQIP-NSHTI	\$282.51	EQIP-HUNSHI	\$339.01
EQIP-MRBI	\$282.51	EQIP-HUMRBI	\$339.01
WHIP-MRBI	\$282.51	WHIP-HUMRBI	\$339.01

**Practice: 342 - Critical Area Planting**

**Scenario # 2 Organic Grass or Grass/legume mix**

**Scenario Description:**

**Missouri**

Establishment of permanent vegetation on a site that is void or nearly void of vegetation due to a natural occurrence or a newly constructed conservation practice. Costs include seedbed preparation with typical tillage implements, grass/legume seed, companion crop, and fertilizer and lime with application. Certified organic seed and fertilizer based upon NOP approved fertilizer inputs will be used where available.

**Before Practice Situation:**

Areas that are void or nearly void of vegetation, resulting in bare soil being exposed to erosive processes. The exposed areas may be caused from recent natural occurrences (fire, flood, etc) or due to newly constructed conservation practices such as waterways, terraces, water and sediment basins or dams. The exposed areas will be subject to wind erosion, sheet and rill erosion, or visible rills may have already occurred. Runoff from the area flows into streams, water courses or other water bodies causing degradation to the receiving waters. The soil typically has a pH imbalance and low fertility.

**After Practice Situation:**

This typical 1.0 acre critical area is stabilized by applying fertilizer, lime and seed. Soil amendments will be incorporated at an depth of six inches to improve fertility and ensure establishment of permanent vegetative cover. The plant nutrients will supplied by a blend of organic soil amendments. Apply 90 lbs of nitrogen, 90 lbs of phosphorus, and 90 lbs of potassium, along with an application of 2 tons of lime. Prepare a firm, weed free seedbed so that proper germination and stand establishment are ensured. Once the seedbed has been prepared, drill the following mixture for a vegetative cover: Smooth Bromegrass (20 lbs/ac), Perennial Ryegrass (10 lbs/ac), and Red Clover (8 lbs/ac) with a nurse crop of oats at a seeding rate of 32 lbs per acre. Organic seed will be used where available.

**Scenario Feature Measure:**

area seeded

**Scenario Typical Size:**

1	Acre	Tot Unit Cost	\$926.18
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Certified Organic, Red Clover (Trifolium)	8	Pound	\$8.46	\$67.68
Materials	Nitrogen, Organic	90	Pound	\$2.47	\$222.30
Materials	Phosphorus, Organic	90	Pound	\$2.96	\$266.40
Materials	Certified Organic, Oats (Avena sativa)	32	Pound	\$0.62	\$19.84
Materials	Potassium, Organic	90	Pound	\$1.31	\$117.90
Materials	Lime, ENM	2	Ton	\$23.98	\$47.96
Materials	Certified Organic, Smooth Bromegrass (Bromus	20	Pound	\$4.41	\$88.20
Materials	Certified Organic, Perennial Ryegrass (Lolium	10	Pound	\$4.53	\$45.30
Equip./Install.	Cultipacking	1	Acre	\$7.67	\$7.67
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

Total Cost: \$926.18

**Payment types:**

PayType	Unit Payment	PayType	Unit Payment
EQIP-NOI	\$694.64	EQIP-HUNOI	\$833.56