

## RECLAMATION COST ESTIMATES

Estimated costs for seed mixes are based on a 10-acre parcel. Costs will decrease per acre as site size increases. Estimated tree numbers are based on a calculation of 170 deciduous trees (bare root) per acre, or one tree every 15 feet on center (O.C.). The number of coniferous trees to be planted for screening along roadways and within the forest grid has yet to be determined. As a contingency, an average price of \$215 per tree, with an estimate of 15 pines per acre, is assumed. Estimated cost for small trees and shrubs (bare root), is based on a calculation of 1500 plants per acre, or one plant every 5 feet O.C.

### A. Prairie Grasslands

#### **Year 1: Mulching, Seeding, and Mowing**

<b>Material or Action</b>	<b>Identity/Frequency</b>	<b>Condition</b>	<b>Cost per acre</b>
Weed-free mulch (e.g., wheat straw, marsh hay)	5 tons/acre	\$150/ton	\$750
Prairie Seed Mix (with annual rye grass as nurse crop and perennial forage grasses)	Per conceptual list in Section 3.5		\$750
No-till Drill Seeding			\$150
Mowing	3 times	6" height	\$300
Invasive species and woody plant removal	2 times	\$150 per visit	\$300
Prairie Grasslands Total Year 1			\$2,250

#### **Year 2: Mowing and Invasive Species Removal**

<b>Material or Action</b>	<b>Identity/Frequency</b>	<b>Condition</b>	<b>Cost per acre</b>
Mowing	2 times	12 inches height	\$200
Invasive species and woody plant removal	Once		\$150
Prairie Grasslands Total Year 2			\$350

**Year 3: Mowing and Controlled Burn**

<b>Material or Action</b>	<b>Identity/Frequency</b>	<b>Condition</b>	<b>Cost per acre</b>
Mowing	Once	late spring; 1 foot height	\$100
Controlled Burn			\$400
Prairie Grasslands Total Year 3			\$500

**Years 4-10: Erosion Control Monitoring, Invasive Species Removal**

<b>Material or Action</b>	<b>Identity/Frequency</b>	<b>Condition</b>	<b>Cost per acre</b>
Erosion Control Monitoring	Once/year		\$20
Invasive species and woody plant removal	Once/year		\$150
Prairie Grasslands Total Years 4-10 (per year)			\$170

An additional controlled burn may be recommended in Year 7 or 8.

**B. Woodlands**

**Year 1: Mulching, Seeding, and Mowing**

<b>Material or Action</b>	<b>Identity/Frequency</b>	<b>Condition</b>	<b>Cost per acre</b>
Weed-free mulch (e.g., wheat straw, marsh hay)	5 tons/acre	\$150/ton	\$750
Seed mix (annual rye grass and perennial forage grasses)	Per conceptual plant list in section 3.5		\$50
No-till drill seeding			\$150
Mowing		3X per year @ 6" height	\$300
Woodlands Total Year 1			\$1250

**Year 2: Discing, Drill Planting of Trees and Shrubs**

<b>Material or Action</b>	<b>Identity/Size</b>	<b>Condition</b>	<b>Cost per acre*</b>
Discing			\$85
Deciduous Tree Planting	15 ft O.C.	Treat and install with mycorrhizal inoculant and mulch	\$8,500
Coniferous Trees	15 per acre	Treat and install with mycorrhizal inoculant and mulch	\$3,225
Varied small deciduous trees/shrubs	3-4 cane, bare root, or single stem tree; (liner stock)	Treat and install with mycorrhizal inoculant and mulch	\$11,250
Woodlands Total Year 2			\$23,060

\*Includes amendment, mulch and labor

**Years 3-10: Monitoring and Invasive Species Removal**

<b>Material or Action</b>	<b>Identity/Size</b>	<b>Condition</b>	<b>Cost per acre</b>
Monitoring	Once/year		\$10
Invasive Species Removal	Once/year		\$150
Woodlands Total Years 3-10 (per year)			\$260