

FOREST STEWARDSHIP PLAN

for

RUDY HARBURG
1020 Mapleton Avenue
Boulder, CO 80304
(303) 444-4773

N3/4 W1/2 W1/2 SW1/4 SE1/4, Sec 7, T1N, R70W, S.P.M.

(7.5 Acres)

Prepared By:

Douglas J. Stevenson
Colorado State Forest Service
936 Lefthand Canyon
Boulder, CO 80302
(303) 442-0428

February 10, 1992

This management plan has been prepared at my request to guide my Stewardship management activities which I voluntarily apply on my property. I believe that activities recommended in this plan are appropriate to meet my objectives and will benefit the natural resources on my property. I intend to apply the recommended practices and to maintain them for a period of at least ten years, thus helping me to be a good steward of the forest and associated resources entrusted to me on my property.

Rudy Harburg

Date

OBJECTIVE

To create a windbreak for a new house and its vicinity.

DESCRIPTION

Location

The property is located on the north side of US-36, about 1/4 mile east of the Broadway intersection.

Annual precipitation is about 15 inches. There are no noxious weeds present on site. Access via a gate from US-36 is excellent. The land currently supports a native grass sod with interspersed yuccas. The property will be developed as a home site.

Geologically, this site is located on Slocum alluvium which dates from the Illinoian glacial epoch, about 150,000 to 260,000 years ago. The Slocum is the lowest of the pediment alluvial deposits and overlies stream-cut Pierre shale. Depth is about 30 feet. The alluvium is composed of well-stratified brown sand and gravel consisting of partly-decomposed pebbles, cobbles and boulders of igneous, metamorphic and sedimentary rocks in a clay matrix. The soil is Nederland very cobbly sandy loam. Root penetration can reach 60 inches. This is an extremely strong soil, able to support heavy loads, even when saturated. There is slight erosion hazard.

This site is in tree species suitability group six.

INVENTORY

Currently, there is no woody vegetation on the property.

WILDLIFE

Rabbits currently use the site. With adequate nesting sites, mourning doves could make use of it. Deer occasionally visit the area. No threatened or endangered species have been seen in the vicinity. Meadow larks have been seen nearby.

OWNER INTEREST

Mr. Harburg wants to plant a windbreak for a house he plans to build on this lot.

RECOMMENDATIONS

Plant a three-row windbreak along the edges of the property. An additional east-west windbreak should cross the center of the lot. This will require 650 American plums (*Prunus americanum*) on a four-foot spacing, 450 Russian-olives (*Elaeagnus angustifolia*) on a six-foot spacing and 330 ponderosa pines (*Pinus ponderosa*) on an eight-foot spacing.

The plum row should be located four feet from the property line. The Russian-olives should be located eight feet inside the plums. The pines should be located eight feet inside the Russian-olives.

The site needs to be prepared with a cultivator. The trees can be machine-planted.

Weed barrier will be needed to kill out competing grass and retard moisture loss. Cobbles in the soil prevent use of a weed barrier machine.

Gaps in a windbreak are disastrous - the wind blows harder through the gap than it does on the open plain. Gaps wider than 1.5 times the specified spacing should be filled with trees at the first maintenance planting. In the second fall following planting, survival should be checked and failed spots replanted the next spring. Normal attrition is about 15% for most species (Plums tend to do better.).

COST-SHARE INFORMATION:

Total farm area: 7.5 acres

Practice area: 2.4 acres

Area benefitted: 7.5 acres

Practices:

SIP-1 (Planning)

Technical Code 30

SIP-4 (Windbreak)

Technical Code 380 (Farmstead Windbreak)

Technical Code 484 (Mulching)

Altogether, implementing this plan using Stewardship funds will commit you or your successors to maintaining and protecting it through September 30, 2002. Cost-sharing for maintenance plantings could extend the agreement further.

ANTICIPATED COSTS AND COST-SHARING

Practice	Total Cost	Cost-share	Net Cost
PLAN (SIP-1)	\$ 35.00	\$ 26.25	\$ 8.75
WINDBREAK (SIP-4)			
Trees	732.16		
Site-prep	240.00		
Planting	<u>572.00</u>		
	\$1544.16	1080.00	464.16
MULCHING (SIP-4)			
Mulch	\$3374.80		
Labor	<u>1430.00</u>		
	\$4804.80	1860.00	2944.80

By laying the weed barrier yourself, or with the help of family members or volunteers, the \$1430.00 labor portion of the mulching can be reduced or eliminated, bringing the net cost for mulching to \$1514.80.

The above figures do not show maintenance costs. These cannot be ascertained until the survival rate has been determined.

Maintenance plantings can be cost-shared up to three times. After that, maintenance must be continued without cost-share support for ten years following the last cost-share payment.

Respectfully Submitted By:

Douglas J. Stevenson
Colorado State Forest Service



Rudy Harburg

2 Chains
132 Feet

100 Feet Minimum Dist.

- Highway Right-of-Way
- Driveway
- [] Building Site
- o American plum
- o Medium-height tree
- *** Ponderosa pine

US - 36

Drawn By:

Douglas Stevenson

February 10, 1992