



Cercis canadensis 'Silver Cloud' 'Silver Cloud' Eastern Redbud¹

Edward F. Gilman and Dennis G. Watson²

INTRODUCTION

The state tree of Oklahoma, Eastern Redbud is a moderate to rapid-grower when young, reaching a height of 20 to 25 feet (Fig. 1). 'Silver Cloud' has variegated leaves blotched with white. Thirty-year-old specimens are rare but they probably can reach 25 to 30 feet in height forming a rounded vase. The pink flowers are much less noticeable than on the species. Eastern Redbud has an irregular growth habit when young but forms a graceful flat-topped vase-shape or globe as it gets older. The tree usually branches low on the trunk, and if left intact forms a graceful multitrunked habit. Be sure to avoid weak forks by pruning to reduce the size of lateral branches and save those which form a 'U'-shaped crotch, not a 'V'. Keep them less than half the diameter of the main trunk to increase longevity of the tree. Do not allow multiple trunks to grow with tight crotches, instead space branches about 6 to 10 inches apart along a main trunk. Yellow (although somewhat variable and unreliable) fall color and tolerance to partial shade make this a suitable, attractive tree for understory or specimen planting. Best not used as a street tree due to low disease resistance, poor tolerance to full sun and short life, but is nice in commercial and residential landscapes. Plant in a shrub border for the unusually variegated foliage.

GENERAL INFORMATION

Scientific name: *Cercis canadensis* 'Silver Cloud'

Pronunciation: SER-sis kan-uh-DEN-sis

Common name(s): 'Silver Cloud' Eastern Redbud

Family: *Leguminosae*

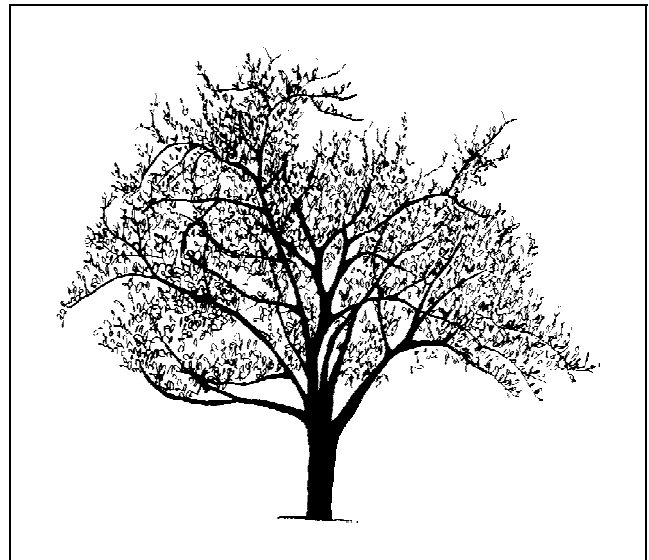


Figure 1. Mature 'Silver Cloud' Eastern Redbud.

USDA hardiness zones: 4B through 9A (Fig. 2)

Origin: native to North America

Uses: container or above-ground planter; large parking lot islands (> 200 square feet in size); wide tree lawns (>6 feet wide); medium-sized parking lot islands (100-200 square feet in size); medium-sized tree lawns (4-6 feet wide); recommended for buffer strips around parking lots or for median strip plantings in the highway; near a deck or patio; reclamation plant; shade tree; small parking lot islands (< 100 square feet in size); narrow tree lawns (3-4 feet wide); specimen; sidewalk cutout (tree pit); residential street tree

Availability: somewhat available, may have to go out of the region to find the tree

1. This document is adapted from Fact Sheet ST-148, a series of the Environmental Horticulture Department, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. Publication date: November 1993.
2. Edward F. Gilman, associate professor, Environmental Horticulture Department; Dennis G. Watson, associate professor, Agricultural Engineering Department, Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida, Gainesville FL 32611.



Figure 2. Shaded area represents potential planting range.

DESCRIPTION

Height: 20 to 30 feet
Spread: 15 to 20 feet
Crown uniformity: irregular outline or silhouette
Crown shape: round; vase shape
Crown density: moderate
Growth rate: fast
Texture: coarse

Foliage

Leaf arrangement: alternate (Fig. 3)
Leaf type: simple
Leaf margin: entire
Leaf shape: orbiculate; ovate
Leaf venation: banchidodrome; pinnate; palmate; reticulate
Leaf type and persistence: deciduous
Leaf blade length: 4 to 8 inches; 2 to 4 inches
Leaf color: variegated
Fall color: yellow
Fall characteristic: showy

Flower

Flower color: lavender; pink; purple
Flower characteristics: spring flowering; very showy

Fruit

Fruit shape: pod
Fruit length: 1 to 3 inches
Fruit covering: dry or hard
Fruit color: brown
Fruit characteristics: does not attract wildlife; no significant litter problem; persistent on the tree; showy

Trunk and Branches

Trunk/bark/branches: bark is thin and easily damaged from mechanical impact; droop as the tree grows, and will require pruning for vehicular or pedestrian clearance beneath the canopy; routinely grown with, or trainable to be grown with, multiple trunks; not particularly showy; tree wants to grow with several trunks but can be trained to grow with a single trunk; no thorns

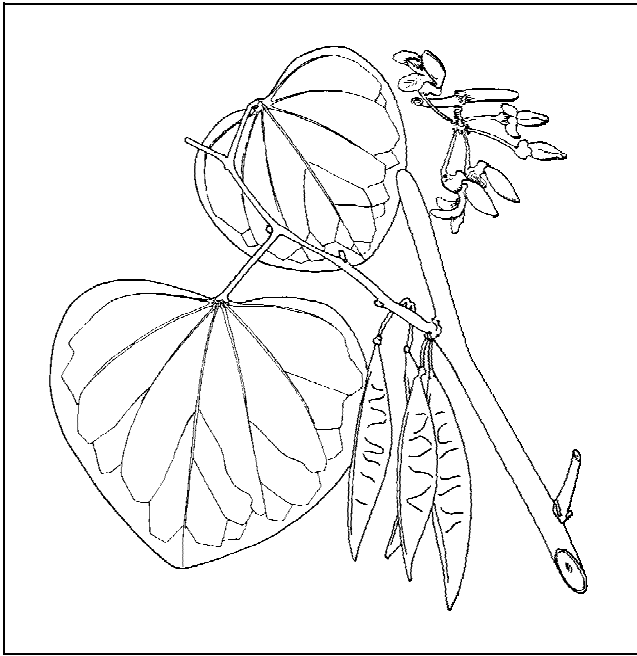


Figure 3. Foliage of 'Silver Cloud' Eastern Redbud.

Pruning requirement: requires pruning to develop strong structure

Breakage: susceptible to breakage either at the crotch due to poor collar formation, or the wood itself is weak and tends to break

Current year twig color: brown

Current year twig thickness: medium

Culture

Light requirement: tree grows in part shade/part sun; tree grows in full sun

Soil tolerances: clay; loam; sand; acidic; occasionally wet; alkaline; well-drained

Drought tolerance: high

Aerosol salt tolerance: none

Other

Roots: surface roots are usually not a problem

Winter interest: no special winter interest

Outstanding tree: not particularly outstanding

Invasive potential: little, if any, potential at this time

Verticillium wilt susceptibility: susceptible

Pest resistance: long-term health usually not affected by pests

USE AND MANAGEMENT

'Silver Cloud' Eastern Redbud grows best in some shade. Best growth occurs in a light, rich, moist soil but adapts well to a variety of soil including sandy or alkaline. Trees look better when they receive some irrigation in summer dry spells. Its native habitat ranges from stream bank to dry ridge. Trees are sold as single or multistemmed. Young trees are easiest to transplant and survive best when planted in the spring or fall. Containerized trees can be planted anytime. The beans provide food for some birds. Trees are short-lived but provide a wonderful show in the spring and fall.

Several other cultivars of Eastern Redbud may be seen: 'Pink Charm' - flowers pink; 'Pinkbud' - flowers pink; 'Purple Leaf' - young foliage purple; 'Flame' - more erect branching, flowers double, blooms later, sterile so no seed pods form. 'Forest Pansy' is a particularly attractive cultivar with purple-red leaves in the spring, but color fades to green in the summer in the south. *Cercis canadensis* var. *texensis* 'Texas White' and *Cercis reniformis* 'Oklahoma' have far superior foliage and make a wonderful substitute for the Eastern Redbud, particularly in non-irrigated areas. These are also better for central and western Oklahoma and Texas.

Cercis cultivars can be propagated by grafting onto seedlings, or by summer cuttings under mist or in a greenhouse.

Pests

Borers attack the trunk of older and stressed trees. Keep the plant vigorous.

Scale insects can usually be controlled with horticultural sprays.

Webworm can defoliate parts of the tree in summer and fall.

Diseases

Canker is the biggest problem with Eastern Redbud. Dieback begins as a canker on a branch. The cankers, at first small and sunken, enlarge to girdle the branch. Bark in the canker turns black and a crack forms between diseased and healthy bark. The fungus enters through wounds or dead and dying branches. Once girdled, the part of the stem beyond the canker wilts and dies. There is no chemical control. Prune out diseased branches.

Leaf spots can be a problem during wet weather. Since the disease is rarely serious, no chemical controls are suggested.

Verticillium wilt attacks and kills Eastern Redbud. Fertilize affected trees with nitrogen fertilizer and prune out wilted branches.