



Cercis canadensis 'Flame' 'Flame' Eastern Redbud¹

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INTRODUCTION

The state tree of Oklahoma, Eastern Redbud is a moderate to rapid-grower when young, reaching a height of 20 to 30 feet (Fig. 1). 'Flame' Eastern Redbud shows double pink flowers all over the tree in spring, just before the leaves emerge. Thirty-year-old specimens are rare but they probably can reach 35 feet in height forming a rounded vase. The pink flowers are displayed later than the species and are sterile so there is no fruit set. 'Flame' Eastern Redbud has an irregular growth habit and is more upright than the species 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 and short life, but is nice in commercial and residential landscapes. Plant in a shrub border for a spring and fall color display.

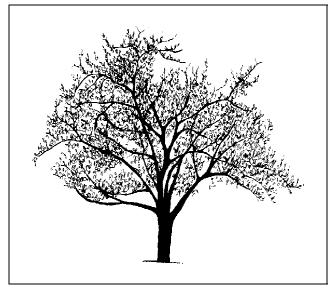


Figure 1. Mature 'Flame' Eastern Redbud.

GENERAL INFORMATION

Scientific name: Cercis canadensis 'Flame' Pronunciation: SER-sis kan-uh-DEN-sis Common name(s): 'Flame' Eastern Redbud

Family: *Leguminosae*

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

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Figure 2. Shaded area represents potential planting range.

square feet in size); narrow tree lawns (3-4 feet wide); specimen; sidewalk cutout (tree pit); residential street

Availability: generally available in many areas within its hardiness range

DESCRIPTION

Height: 20 to 30 feet **Spread:** 15 to 25 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: green Fall color: yellow

Fall characteristic: showy

Flower

Flower color: lavender; pink; purple

Flower characteristics: spring flowering; very

showy

Fruit

There is no fruit on this tree.

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

Pruning requirement: requires pruning to develop

strong structure

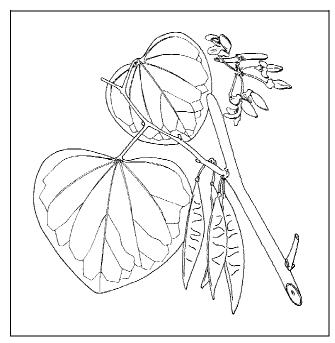


Figure 3. Foliage of 'Flame' Eastern Redbud.

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

Eastern Redbuds grow well in full sun in the northern part of its range but will benefit from some shade in the southern zones, particularly in the lower mid-west where summers are hot. 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, demonstrating its adaptability. 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; 'Forest Pansy' is a particularly attractive cultivar with purplered 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 wonderful substitutes 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.