

# *Sophora japonica* 'Pendula': Weeping Scholar Tree<sup>1</sup>

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## Introduction

Weeping Pagoda Tree will grow to a height and spread of about 20 feet, forming a fine-textured, weeping round canopy even as a young tree. It has a rapid growth rate and tolerates polluted city conditions, heat, and drought. The tree prefers a sunny, open location on any light soil. The very showy, greenish-white to yellow flowers produced by the species in mid to late summer are mostly absent from this cultivar. The young green twigs turn a dark grey with age.

## General Information

**Scientific name:** *Sophora japonica*

**Pronunciation:** sah-FOR-uh juh-PAWN-ih-kuh

**Common name(s):** Weeping Scholar Tree, Weeping Japanese Pagoda Tree

**Family:** *Leguminosae*

**USDA hardiness zones:** 5A through 8A (Fig. 2)

**Origin:** not native to North America

**Invasive potential:** little invasive potential

**Uses:** deck or patio; shade; parking lot island 100-200 sq ft; parking lot island > 200 sq ft; tree lawn 4-6 feet wide; tree lawn > 6 ft wide; street without sidewalk; urban tolerant; highway median

**Availability:** not native to North America

## Description

**Height:** 15 to 20 feet

**Spread:** 12 to 20 feet

**Crown uniformity:** symmetrical

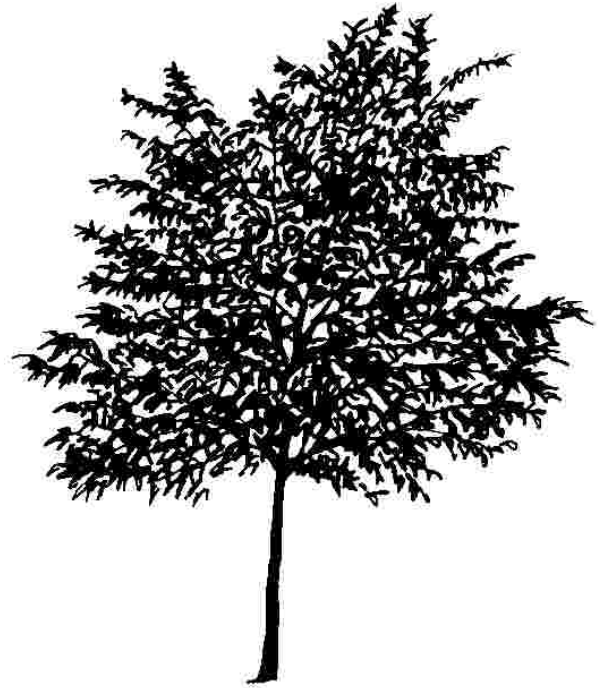


Figure 1. Young *Sophora japonica* 'Pendula': Weeping Scholar Tree

**Crown shape:** weeping

**Crown density:** moderate

**Growth rate:** moderate

**Texture:** fine

## Foliage

**Leaf arrangement:** alternate (Fig. 3)

**Leaf type:** odd-pinnately compound

**Leaf margin:** entire

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Figure 2. Range

**Leaf shape:** ovate  
**Leaf venation:** pinnate  
**Leaf type and persistence:** deciduous  
**Leaf blade length:** less than 2 inches  
**Leaf color:** green  
**Fall color:** yellow  
**Fall characteristic:** not showy

### Flower

**Flower color:** white/cream/gray, yellow  
**Flower characteristics:** showy

### Fruit

**Fruit shape:** pod or pod-like, elongated  
**Fruit length:** 3 to 6 inches, 6 to 12 inches  
**Fruit covering:** dry or hard  
**Fruit color:** yellow, brown  
**Fruit characteristics:** does not attract wildlife; showy; fruit/leaves a litter problem

### Trunk and Branches

**Trunk/bark/branches:** branches droop; not showy; typically multi-trunked; thorns  
**Pruning requirement:** needed for strong structure  
**Breakage:** resistant  
**Current year twig color:** green  
**Current year twig thickness:** thin, medium  
**Wood specific gravity:** unknown

### Culture

**Light requirement:** full sun  
**Soil tolerances:** sand; loam; clay; acidic; alkaline; well-drained; occasionally wet  
**Drought tolerance:** high  
**Aerosol salt tolerance:** moderate

### Other

**Roots:** not a problem  
**Winter interest:** no

**Outstanding tree:** no  
**Ozone sensitivity:** unknown  
**Verticillium wilt susceptibility:** unknown  
**Pest resistance:** resistant to pests/diseases

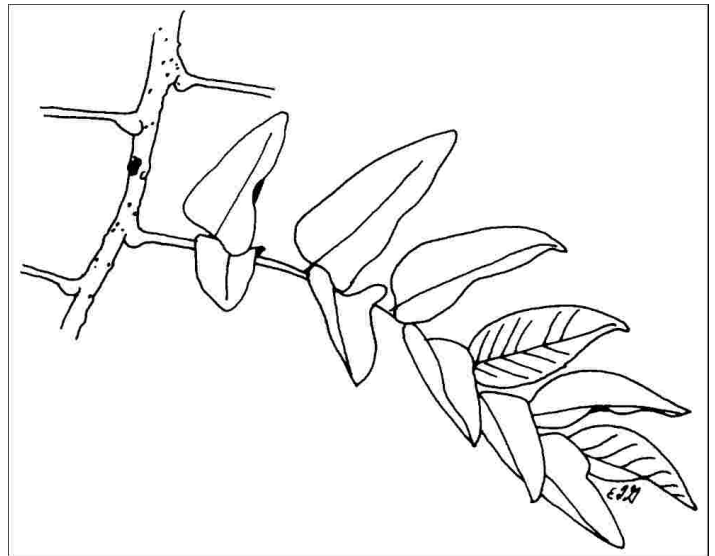


Figure 3. Foliage

## Use and Management

The dropping flowers and fruit on the species which are considered a messy nuisance by some people are not a problem for this cultivar. These attributes could make this a superior tree for certain sites. The leaflets are small, creating light shade beneath the tree and are mostly washed away with rain or fall into shrub beds or between the grass blades.

Some trees come from the nursery with multiple trunks or branches clustered together at one spot on the trunk. Buy those with one central trunk growing up the center of the tree or prune the tree to a central leader to create a strong, durable structure. Space branches along the central leader to ensure good branch attachment. It may take several prunings to train the tree to the proper form.

This urban-tough tree is highly recommended for urban planting. Also makes a nice medium-sized patio tree and is well-suited for parking lot planting, creating shade from its spreading canopy. Adapted to restricted soil spaces, tolerates salt spray, and tolerates drought in reasonable soil but not wet soil. Best when planted in full sun.

Many tree cultivars must be grafted or propagated from cuttings. This one reproduces fairly consistently from seed. *Sophora* species has a few cultivars: 'Fastigiata' - upright habit; 'Pendula' - weeping habit; 'Princeton Upright' - upright form suitable for narrow sites, somewhat smaller than the species; 'Regent' - oval crown and blooms at an early age, has glossy leaves which shed soot and dirt, readily available in nurseries.

## Pests

Potato leafhopper kills young stems causing profuse branching or witches broom on small branches. It usually is not a problem on larger trees.

## Diseases

*Sophora* species is generally pest- and disease-free.

Occasionally, Scholar Tree will get a fungus canker about two-inches or less across, have raised reddish brown margins and light brown centers. The infected stem is killed when the fungus girdles the stem. Another fungus is sometimes found on dead branches on *Sophora* species. Frost injury may give both fungi an entrance into the tree. Prune out dead, damaged, or diseased branches.

Twig blight or dieback can be a problem occasionally. Prune out infected branches and avoid unnecessary wounding. Keep trees vigorous by regular fertilization.

Powdery mildew forms a fungus mat which looks like a white coating on the leaves. The disease is usually not serious.