Salix spp.: Weeping Willow

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Introduction

Often when one envisions a quiet body of water, the graceful, elegant form of a weeping willow is seen at the water’s edge, the long, light green, pendulous branches reflected in the water, gently swaying with each little breeze (Fig. 1). Though it does well in very moist soils, weeping willow may also be successfully used as a fast-growing specimen or screen in drier, more open areas where it should receive regular watering to prevent leaf drop in a drought. It will survive drought but loses some leaves without irrigation. Ultimately reaching a height of 35 to 45 feet with an equal or greater spread, weeping willow should be given plenty of room to develop its broad, rounded crown.

General Information

Scientific name: Salix spp.
Pronunciation: SAY-licks species
Common name(s): Weeping willow, Babylon weeping willow
Family: Salicaceae
USDA hardiness zones: 2 through 9A
Origin: not native to North America
Uses: screen; specimen; no proven urban tolerance
Availability: generally available in many areas within its hardiness range

Description

Height: 45 to 70 feet
Spread: 45 to 70 feet
Crown uniformity: symmetrical canopy with aregular (or smooth) outline, and individuals have more or less identical crown forms
Crown shape: round; weeping
Crown density: dense
Growth rate: fast
Texture: fine

Foliage

Leaf arrangement: alternate
Leaf type: simple
Leaf margin: serrate; serrulate
Leaf shape: lanceolate; linear
Leaf venation: pinnate

Figure 1. Mature Salix spp.: weeping willow
Credits: Ed Gilman, UF/IFAS
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: yellow
Flower characteristics: inconspicuous and not showy; spring flowering

Fruit
Fruit length: < .5 inch
Fruit covering: dry or hard
Fruit color: brown
Fruit characteristics: does not attract wildlife; inconspicuous and not showy; fruit, twigs, or foliage cause significant litter

Trunk and Branches
Trunk/bark/branches: droop as the tree grows, and will require pruning for vehicular or pedestrian clearance beneath the canopy; not particularly showy; should be grown with a single leader; no thorns
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: thin

Culture
Light requirement: tree grows in part shade/part sun; tree grows in full sun
Soil tolerances: clay; loam; sand; acidic; alkaline; extended flooding; well-drained
Drought tolerance: high
Aerosol salt tolerance: high
Soil salt tolerance: good

Other
Roots: surface roots can lift sidewalks or interfere with mowing
Winter interest: no special winter interest
Outstanding tree: not particularly outstanding
Invasive potential: No entries found.
Ozone sensitivity: sensitive or moderately tolerant
Verticillium wilt susceptibility: not known to be susceptible

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

Use and Management
Care should be taken not to locate weeping willows near underground water or sewer lines or close to septic tank drain fields where the roots could cause significant damage. Roots are aggressive and will spread about three times the distance from the trunk to the edge of the canopy and often grow on the soil surface. Weeping willows are deciduous, the thin, three to six-inch-long leaves turning yellow before falling.

Locate weeping willow only where there is adequate space for its large, imposing form. Not for residential lots, it is best located near water where soil will be undisturbed. It is often planted near retention ponds and lakes for a dramatic softening effect.

Willows were used by Indians as medicine, the young twigs and bark chewed to relieve headaches. It was later found the active ingredient was salicylic acid, the basis of today’s aspirin.

Weeping willows should be grown in full sun or very light shade and will tolerate a wide range of soil conditions, including alkaline pH. All willows will need initial pruning and training when young to develop a strong, central trunk with branch crotches as wide as possible. This will increase the longevity of the tree and help overcome the problem with brittle wood but the trees are usually still short-lived to 30 years, or so.

Cultivars include: ‘Aurea’, with golden-yellow branches; ‘Crispa’, corkscrew willow, has interesting leaves curled into a ring; ‘Golden Curls’, moderately weeping, has golden bark with twisting branches and leaves; ‘Babylon’, excellent, broadly weeping habit; ‘Tristis’, a popular weeping willow.

Pests
Some of its pests are scales, caterpillars, borers, and aphids. The willow is a favored host for the gypsy moth.

Disease
Root rot can occasionally infect root systems and cause decline.

Crown gall causes galls to form near the soil line or farther up the plant. Take out infected plants and do not replant in the same area for at least two years.
Willow scab attacks and kills young leaves within a very short time. The fungus enters twigs, kills back the young shoots and causes cankers. Olive green spore masses can be seen along the veins on the undersides of leaves. Another fungus, *Physalospora miyabeana*, attacks willow and the two fungi in combination cause willow blight. Prune out infected branches and use resistant species.

Black canker causes dark brown spots on the leaves. Whitish gray lesions with black borders appear on the twigs and stems. Prune out infected branches and use resistant species. Weeping willow appears to be resistant.

Many fungi cause cankers on willow and infected branches are pruned out. If the trunk is infected and girdled, the tree will die. Keep trees healthy by regular fertilization.

Many fungi cause leaf spots but are not serious enough to warrant preventive sprays. Rake up the fallen diseased leaves in the fall.

Powdery mildew causes a white coating on the leaves. The disease is usually not serious.

Rust causes yellow spots on the lower surfaces of leaves and, if severe, defoliation. Rake up and destroy leaves from diseased trees.

Tar spot causes black, raised spots on leaves. The spots are harmless. Rake up and dispose of fallen leaves from diseased trees at the end of the growing season.