

Platycladus orientalis: Oriental Arborvitae¹

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Introduction

Oriental arborvitae is an easily-recognized shrub, with its large teardrop shape and flattened branchlets held vertically. Most young plants are seen as shrubs, but they can be pruned into a small tree by removing the lowest branches. This forms a distinctive vase shape and is common on older landscapes where the plant was located too close to a walk or home.

General Information

Scientific name: Platycladus orientalis

Pronunciation: plat-ih-KLAY-dus or-ee-en-TAY-liss **Common name(s):** oriental arborvitae, arborvitae

Family: Cupressaceae

USDA hardiness zones: 6A through 10A (Figure 2)

Origin: native to China and North Korea

UF/IFAS Invasive Assessment Status: not considered a problem species at this time, may be recommended (North, Central, South)

Uses: specimen; screen; urban tolerant; highway median

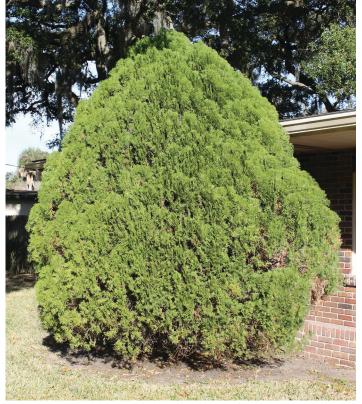


Figure 1. Full Form - *Platycladus orientalis*: oriental arborvitae Credits: UF/IFAS

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Figure 2. Range

Description

Height: 15 to 20 feet **Spread:** 10 to 15 feet

Crown uniformity: symmetrical **Crown shape:** pyramidal, oval

Crown density: dense Growth rate: moderate

Texture: fine

Foliage

Leaf arrangement: vertical flat plane

Leaf type: simple Leaf margin: entire

Leaf shape: scale-like, deltoid

Leaf venation: none, or difficult to see

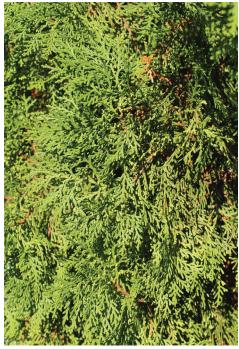


Figure 3. Leaf - *Platycladus orientalis*: oriental arborvitae Credits: UF/IFAS

Leaf type and persistence: evergreen **Leaf blade length:** 1/16 to 1/8 inch

Leaf color: bright yellow green when young, darker green

when mature

Fall color: no color change Fall characteristic: not showy

Flower

Flower color: unknown

Flower characteristics: not showy

Fruit

Fruit shape: oblong or egg-shaped

Fruit length: ¾ inch

Fruit covering: fleshy, with 6-8 hard scales that each have a

tiny horn-like projection

Fruit color: bluish green, turns brown with maturity **Fruit characteristics:** does not attract wildlife; not showy;

fruit/leaves not a litter problem



Figure 4. Cone, Young - *Platycladus orientalis*: oriental arborvitae Credits: UF/IFAS

Trunk and Branches

Trunk/branches: branches droop; not showy; typically multi-trunked; no thorns

Bark: red brown, fibrous, and peels in long thin strips

Pruning requirement: little required

Breakage: resistant

Current year twig color: green Current year twig thickness: thin

Wood specific gravity: unknown



Figure 5. Bark - *Platycladus orientalis*: oriental arborvitae Credits: Gitta Hasing, UF/IFAS

Culture

Light requirement: full sun to partial shade

Soil tolerances: clay; sand; loam; acidic; well-drained

Drought tolerance: high **Aerosol salt tolerance:** low

Other

Roots: not a problem
Winter interest: no
Outstanding tree: no

Ozone sensitivity: unknown

Verticillium wilt susceptibility: resistant **Pest resistance:** resistant to pests/diseases

Use and Management

Oriental arborvitae does not tolerate pruning well since all foliage is toward the outside of the crown, but it is well-suited for use as a barrier, background, or specimen planting in a large landscape where it is properly located so pruning is not needed. Its distinctive appearance does not fit easily into natural or informal landscapes. It is often planted in cemeteries and referred to as Cemetery Plant.

Oriental arborvitae grows moderately fast in full sun or very light shade and tolerates drought well once established. Sandy or loam soil is best, clay soil is only suited on a slope where drainage is good.

Available cultivars include: `Aureus', 3 to 5 feet tall, compact, golden leaves in spring, globe-shaped; `Baker', height 7 to 9 feet, bright pale green foliage, hardy in hot, dry areas; `Berckmanii', height 4 to 6 feet, compact and globe-shaped with golden-tipped branchlets; `Bonita', cone-shaped, 3 feet tall, leaves with yellow tips; `Globosa', globe-shaped dwarf; `Juniperoides', 3 feet tall, juvenile foliage needle-like, purplish foliage in fall; `Meldensis', 3 feet tall, narrow, purplish foliage in fall.

Propagation is by cuttings.

Pests and Diseases

Pest problems include spider mites and bagworms. A fungus blight causes the interior twigs to turn brown. This blight can be controlled by fungicides in early fall and by pruning out and destroying affected areas. Locate the plant in a sunny area with good air circulation to keep the foliage as dry as possible.

Reference

Koeser, A. K., Hasing, G., Friedman, M. H., and Irving, R. B. 2015. Trees: North & Central Florida. University of Florida Institute of Food and Agricultural Sciences.