

***Acer palmatum* 'Ornatum': 'Ornatum' Japanese Maple¹**

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Introduction

This cultivar of Japanese Maple has a height and spread of about 12 feet. The multiple trunks are picturesque, grey and show nicely when lit up at night. Japanese maple is grown for its red-colored leaves, interesting growth habit and fine leaf texture. Fall color is a dark burgundy-red and is often striking, even on trees grown in shade. Growth habit is a weeping globe, branching to the ground. The globose selections look best when they are allowed to branch to the ground. Be sure to clear all turf away from beneath the branches of these low growing types so the lawn mower will not damage the tree. This compact cultivar makes a wonderful accent for any landscape.

General Information

Scientific name: *Acer palmatum*

Pronunciation: AY-ser pal-MAY-tum

Common name(s): 'Ornatum' Japanese Maple

Family: *Aceraceae*



Figure 1. Young *Acer palmatum* 'Ornatum': 'Ornatum' Japanese Maple

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

Origin: not native to North America

Uses: Bonsai; specimen; deck or patio; container or planter; trained as a standard

Availability: not native to North America

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Figure 2. Range

Description

Height: 10 to 15 feet

Spread: 10 to 15 feet

Crown uniformity: symmetrical

Crown shape: round, weeping

Crown density: moderate

Growth rate: slow

Texture: fine

Leaf type and persistence: deciduous

Leaf blade length: 2 to 4 inches

Leaf color: green

Fall color: red, orange, yellow, copper

Fall characteristic: showy

Flower

Flower color: red

Flower characteristics: not showy

Foliage

Leaf arrangement: opposite/subopposite (Fig. 3)

Leaf type: simple

Leaf margin: serrate, lobed

Leaf shape: star-shaped

Leaf venation: palmate

Fruit

Fruit shape: elongated

Fruit length: .5 to 1 inch

Fruit covering: dry or hard

Fruit color: red

Fruit characteristics: does not attract wildlife; not showy; fruit/leaves not a litter problem

Trunk and Branches

Trunk/bark/branches: branches droop; showy; typically multi-trunked; thorns

Pruning requirement: needed for strong structure

Breakage: resistant

Current year twig color: green, reddish

Current year twig thickness: thin

Wood specific gravity: unknown

Culture

Light requirement: partial sun or partial shade, shade tolerant

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

Drought tolerance: moderate

Aerosol salt tolerance: none

Other

Roots: not a problem

Winter interest: yes

Outstanding tree: yes

Invasive potential: little invasive potential

Ozone sensitivity: unknown

Verticillium wilt susceptibility: susceptible

Pest resistance: resistant to pests/diseases

Use and Management

This large shrub or small tree tends to leaf out early, so it may be injured by spring frosts. Protect them from drying winds and direct sun by providing exposure to partial or filtered shade and well-drained, acid soil with plenty of organic matter, particularly in the southern part of its range. Leaves often scorch in hot summer weather in USDA hardiness zones 7b and 8, unless they are in a mostly shaded spot or irrigated during dry weather. Although the tree should be located in some shade in USDA hardiness zone 8b,

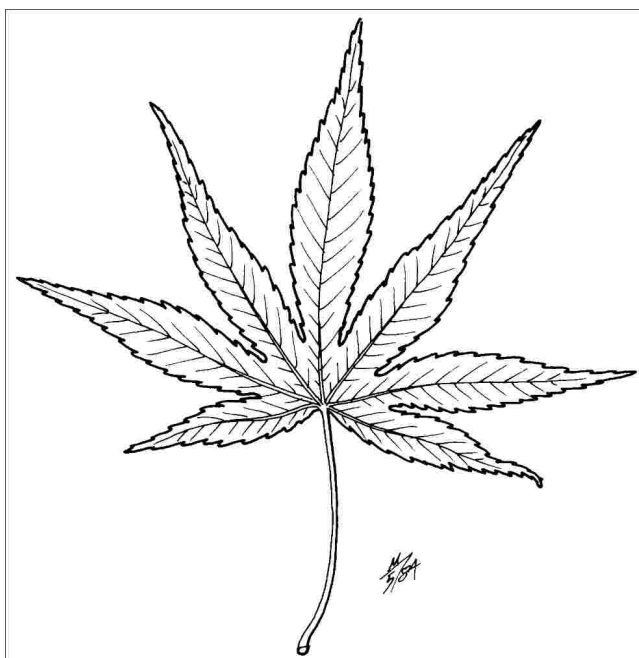


Figure 3. Foliage

more direct sun can be tolerated in the northern part of the range. Be sure drainage is maintained and never allow water to stand around the roots. Grows fine on clay soils as long as the ground is sloped so water does not accumulate in the soil. Responds well to several inches of mulch placed beneath the canopy.

Variigated types are a bit more difficult to grow and are subject to leaf scorch. There are many cultivars of Japanese Maple with a wide variety of leaf shapes and color, growth habits, and sizes: 'Atropurpureum' - reddish leaves with five lobes; 'Bloodgood' - new foliage bright red, darkening to dark green; 'Burgundy Lace' - reddish foliage and cut leaves; 'Elegans' - leaves with rose-colored margins when they first unfold.

Pests

Aphids infest maples, usually Norway Maple, and may be numerous at times. High populations can cause leaf drop. Another sign of heavy aphid infestation is honey dew on lower leaves and objects beneath the tree. Aphids are controlled by spraying or they may be left alone. If not sprayed, predatory insects will bring the aphid population under control.

Scales are an occasional problem on maples. Perhaps the most common is cottony maple scale. The insect forms a cottony mass on the lower sides of

branches. Scales are controlled with horticultural oil sprays. Scales may also be controlled with well-timed sprays to kill the crawlers.

If borers become a problem it is an indication the tree is not growing well. Controlling borers involves keeping trees healthy. Chemical controls of existing infestations are more difficult. Proper control involves identification of the borer infesting the tree then applying insecticides at the proper time.

Diseases

Scorch occurs during periods of high temperatures accompanied by wind. Trees with diseased or inadequate root systems will also show scorching. When trees do not get enough water they scorch. Scorch symptoms are light brown or tan dead areas between leaf veins. The symptoms are on all parts of the tree or only on the side exposed to sun and wind. Scorching due to dry soil may be overcome by watering. If scorching is due to an inadequate or diseased root system, watering may have no effect.

Nutrient deficiency symptoms are yellow or yellowish-green leaves with darker green veins. The most commonly deficient nutrient on maple is manganese. Implanting capsules containing a manganese source in the trunk will alleviate the symptoms. Test soil samples to determine if the soil pH is too high for best manganese availability. Plants exposed to weed killers may also show similar symptoms.

Tar spot and a variety of leaf spots cause some concern among homeowners but are rarely serious enough for control.