

# *Acer platanoides* 'Erectum': 'Erectum' Norway Maple<sup>1</sup>

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## Introduction

This cultivar of Norway Maple grows to a height of about 50 feet with a very narrow crown. There may be confusion in the trade on how to separate this from the cultivar 'Columnare'. The columnar or fastigate crown fills with greenish-yellow flowers in the spring. Norway Maple's shallow root system competes with lawn grasses, and the shallow roots can make mowing under the tree difficult. The shallow roots can heave sidewalks so be certain to locate the tree four to six feet away. The tree is easily transplanted, grows quickly, is adapted to a wide variety of soils (including alkaline) and has brilliant orange-yellow fall color unmatched by most trees. It can also tolerate coastal conditions. Well adapted to street tree plantings, especially those which have limited vertical space for crown expansion.

## General Information

**Scientific name:** *Acer platanoides*

**Pronunciation:** AY-ser plat-uh-NOY-deez

**Common name(s):** 'Erectum' Norway Maple

**Family:** *Aceraceae*

**USDA hardiness zones:** 4A through 7A (Fig. 2)

**Origin:** not native to North America

**Invasive potential:** invasive non-native

**Uses:** Bonsai; urban tolerant; street without sidewalk; screen; shade; parking lot island 100-200 sq ft; parking lot island > 200 sq ft; sidewalk cutout (tree pit); tree lawn 4-6 feet wide; tree lawn > 6 ft wide; highway median

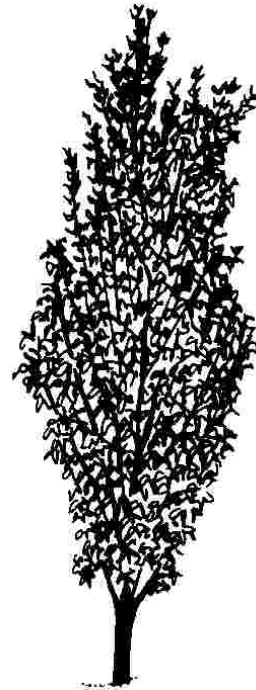


Figure 1. Middle-aged *Acer platanoides* 'Erectum': 'Erectum' Norway Maple

**Availability:** not native to North America

## Description

**Height:** 50 to 60 feet

**Spread:** 15 to 25 feet

**Crown uniformity:** symmetrical

**Crown shape:** upright/erect

**Crown density:** dense

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Figure 2. Range

**Growth rate:** fast

**Texture:** coarse

### Foliage

**Leaf arrangement:** opposite/subopposite (Fig. 3)

**Leaf type:** simple

**Leaf margin:** lobed, dentate, incised

**Leaf shape:** star-shaped

**Leaf venation:** palmate

**Leaf type and persistence:** deciduous

**Leaf blade length:** 4 to 8 inches

**Leaf color:** green

**Fall color:** yellow

**Fall characteristic:** showy

### Flower

**Flower color:** green

**Flower characteristics:** not showy

### Fruit

**Fruit shape:** elongated

**Fruit length:** 1 to 3 inches

**Fruit covering:** dry or hard

**Fruit color:** brown, green

**Fruit characteristics:** attracts birds; showy; fruit/leaves not a litter problem

### Trunk and Branches

**Trunk/bark/branches:** branches don't droop; not showy; typically one trunk; thorns

**Pruning requirement:** needed for strong structure

**Breakage:** resistant

**Current year twig color:** brown

**Current year twig thickness:** thick

**Wood specific gravity:** unknown

### Culture

**Light requirement:** full sun, partial sun or partial shade

**Soil tolerances:** sand; loam; clay; acidic; alkaline; well-drained; occasionally wet

**Drought tolerance:** moderate

**Aerosol salt tolerance:** moderate

### Other

**Roots:** can form large surface roots

**Winter interest:** no

**Outstanding tree:** no

**Ozone sensitivity:** unknown

**Verticillium wilt susceptibility:** susceptible

**Pest resistance:** resistant to pests/diseases



Figure 3. Foliage

## Use and Management

Trunks can crack on the southern side during the winter initiating some trunk decay, but the tree usually remains intact. Leaves may scorch in the summer heat during drought, but there is little permanent damage. A variety of birds are known to use seeds as a food source. Seeds germinate readily in the landscape and could become a nuisance.

A large number of cultivars are available and are better suited for urban planting than the species. Those having colored summer foliage are: 'Crimson King' - oval, 45 feet tall, foliage purple during the summer; 'Drummondii' - leaves edged in white; 'Schwedleri' - oval, 45 feet tall,

foliage reddish in the spring then becoming green. Other cultivars are: 'Almira' - round headed, mature height of about 20 feet; 'Cleveland' - upright growth habit, 50 feet tall; 'Columnare' - columnar or upright growth habit, 35 feet tall; 'Deborah' - new leaves appear as a deep red; 'Emerald Queen' - crown oval, growth rate faster, 60 feet tall; 'Globosum' - rounded head, 20 feet tall; 'Greenlace' - cutleaf cultivar with rapid growth rate; 'Olmstead' - upright growth habit, 45 feet tall; 'Summershade' - crown oval, growth rate faster than species. 'Superform' - round, 45 feet tall, may show more resistance to frost cracks.

## Pests

Leaf stalk borer and petiole-borer cause the same type of injury. Both insects bore into the leaf stalk just below the leaf blade. The leaf stalk shrivels, turns black, and the leaf blade falls off. The leaf drop may appear heavy but serious injury to a healthy tree is rare.

Gall mites stimulate the formation of growths or galls on the leaves. The galls are small but can be so numerous that individual leaves curl up. The most common gall is bladder gall mite found on silver maple. The galls are round and at first green but later turn red, then black, then dry up. Galls of other shapes are seen less frequently on other types of maples. Galls are not serious, so chemical controls are not needed.

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 usually 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

Verticillium wilt symptoms are wilting and death of branches. Infected sapwood will be stained a dark or olive green but staining can't always be found. If staining can not be found do not assume the problem is not verticillium wilt. Severely infected trees probably can't be saved. Lightly infected trees showing only a few wilted branches may be pulled through. Fertilize and prune lightly infected trees. This treatment will not cure the problem but may allow the tree to outgrow the infection. Girdling roots will cause symptoms which mimic verticillium wilt.

Girdling roots grow around the base of the trunk rather than growing away from it. As both root and trunk increase in size, the root chokes the trunk. Girdling roots are detected by examining the base of the trunk. The lack of trunk flare at ground level is a symptom. The portion of the trunk above a girdling root does not grow as rapidly as the rest so may be slightly depressed. The offending root may be on the surface or may be just below the sod. The tree crown shows premature fall coloration and death of parts of the tree in more serious cases. If large portions of the tree have died it may not be worth saving. Girdling roots are functional roots so when removed a portion of the tree may die. When the girdling root is large the treatment is as harmful as the problem. After root removal, follow-up treatment includes watering during dry weather. The best treatment for girdling roots is prevention by removing or cutting circling roots at planting or as soon as they are detected on young trees.

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.