



# Acer platanoides 'Cleveland' 'Cleveland' Norway Maple<sup>1</sup>

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#### INTRODUCTION

This cultivar of Norway Maple has a height of 40 to 50 feet and a spread of about 30 feet making it narrower than the species (Fig. 1). Branches on young and medium-aged trees are more upright, reducing the pruning requirement when planted close to buildings or other structures compared to the species. The upright, oval crown fills with greenish-vellow flowers in the spring. Norway Maple's dense shade and 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 at least 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 yellow fall color unmatched by most trees. It can also tolerate coastal conditions. Well adapted to street tree plantings, the species is often overused but this cultivar will make a fine urban tree.

# **GENERAL INFORMATION**

Scientific name: Acer platanoides 'Cleveland' Pronunciation: AY-ser plat-uh-NOY-deez Common name(s): 'Cleveland' Norway Maple

**Family**: Aceraceae

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

Origin: not native to North America

**Uses:** Bonsai; large parking lot islands (> 200 square feet in size); wide tree lawns (>6 feet wide); medium-sized parking lot islands (100-200 square feet in size); medium-sized tree lawns (4-6 feet wide); recommended for buffer strips around parking lots or for median strip plantings in the highway; screen;

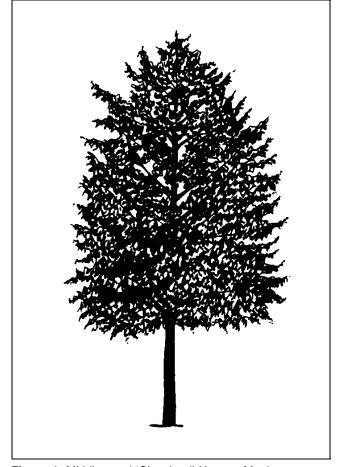


Figure 1. Middle-aged 'Cleveland' Norway Maple.

shade tree; specimen; sidewalk cutout (tree pit); residential street tree; tree has been successfully grown in urban areas where air pollution, poor drainage, compacted soil, and/or drought are common

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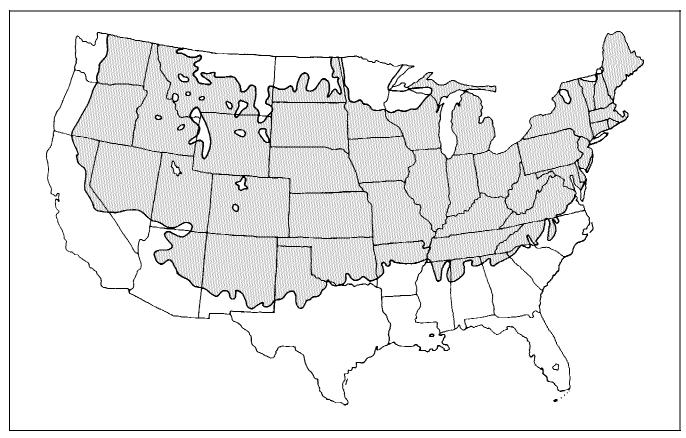


Figure 2. Shaded area represents potential planting range.

**Availability:** somewhat available, may have to go out of the region to find the tree

#### **DESCRIPTION**

**Height:** 40 to 60 feet **Spread:** 30 to 40 feet

**Crown uniformity:** symmetrical canopy with a regular (or smooth) outline, and individuals have more

or less identical crown forms Crown shape: oval; upright Crown density: dense 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: inconspicuous and not

showy; spring flowering

## Fruit

Fruit shape: elongated
Fruit length: 1 to 3 inches
Fruit covering: dry or hard
Fruit color: brown; green

Fruit characteristics: attracts birds; no significant

litter problem; showy

#### **Trunk and Branches**

**Trunk/bark/branches:** grow mostly upright and will not droop; not particularly showy; should be grown

with a single leader; no thorns

Pruning requirement: requires pruning to develop

strong structure **Breakage:** resistant

Current year twig color: brown Current year twig thickness: thick

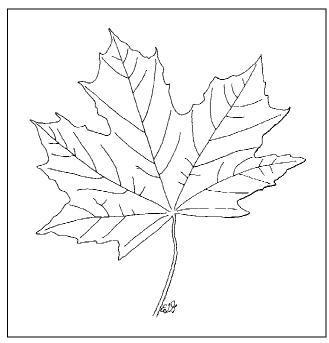


Figure 3. Foliage of 'Cleveland' Norway Maple.

### Culture

Light requirement: tree grows in part shade/part sun;

tree grows in full sun

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

**Drought tolerance:** moderate **Aerosol salt tolerance:** moderate

Soil salt tolerance: good

#### Other

**Roots:** surface roots can lift sidewalks or interfere

with mowing

Winter interest: no special winter interest

Outstanding tree: tree has outstanding ornamental

features and could be planted more
Invasive potential: No entries found.
Verticillium wilt susceptibility: susceptible
Pest resistance: long-term health usually not

affected by pests

## **USE AND MANAGEMENT**

Trunks can crack on the southern side during the winter initiating some trunk decay, but the tree usually remains intact. Branches sometimes fail from too much weight toward the end of the branch. Although this is rare, it can be prevented by removing selected secondary branches from all along the main branches to distribute the weight evenly along the main branches. 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; '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; 'Erectum' - upright growth habit; '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.