**Acer saccharinum** ‘Pyramidale’
‘Pyramidale’ Silver Maple

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**INTRODUCTION**

This cultivar of Silver Maple has a broad columnar shape with essentially one trunk and is a rapidly-growing, fairly weak-wooded tree which reaches a height of about 60 to 70 feet on a moist to wet site (Fig. 1). The tree is useful in wet areas, transplants easily and can grow where few others can. It should be saved for planting in wet areas away from people or where nothing else will thrive. Roots often grow on the surface of the soil making mowing grass difficult under the canopy. They also are aggressive, growing into septic tank drain fields and into broken or leaky water and sewer pipes. It is also hard to plant shrubs and other plants beneath the branches due the dense root system.

**GENERAL INFORMATION**

Scientific name: *Acer saccharinum* ‘Pyramidale’
Pronunciation: AY-ser sack-uh-RYE-num
Common name(s): ‘Pyramidale’ Silver Maple
Family: *Aceraceae*
USDA hardiness zones: 3 through 9 (Fig. 2)
Origin: native to North America
Uses: reclamation plant; tree has been successfully grown in urban areas where air pollution, poor drainage, compacted soil, and/or drought are common
Availability: grown in small quantities by a small number of nurseries

**DESCRIPTION**

Height: 60 to 70 feet
Spread: 25 to 35 feet
Crown uniformity: symmetrical canopy with a regular (or smooth) outline, and individuals have more or less identical crown forms
Crown shape: columnar; pyramidal
Crown density: moderate

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Growth rate: fast
Texture: medium

Foliage

Leaf arrangement: opposite/subopposite (Fig. 3)
Leaf type: simple
Leaf margin: parted
Leaf shape: star-shaped
Leaf venation: palmate
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: red
Flower characteristics: showy; spring flowering

Fruit

Fruit shape: elongated
Fruit length: 1 to 3 inches
Fruit covering: dry or hard
Fruit color: brown; green
Fruit characteristics: does not attract wildlife; fruit, twigs, or foliage cause significant litter; showy

Trunk and Branches

Trunk/bark/branches: bark is thin and easily damaged from mechanical impact; 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; reddish
Current year twig thickness: medium; thin
Wood specific gravity: 0.47
Culture

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

**Soil tolerances:** clay; loam; sand; acidic; extended flooding; well-drained

**Drought tolerance:** high

**Aerosol salt tolerance:** moderate

**Soil salt tolerance:** moderate

Other

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

**Winter interest:** no special winter interest

**Outstanding tree:** not particularly outstanding

**Invasive potential:** seeds itself into the landscape

**Verticillium wilt susceptibility:** susceptible

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

USE AND MANAGEMENT

Silver Maple will grow in areas which have standing water for several weeks at a time. It grows best on acid soil which remains moist, but adapts to very dry, alkaline soil. Leaves may scorch in areas with restricted soil space during dry spells in the summer but will tolerate drought if roots can grow unrestricted into a large soil volume.

The bright yellow fall color can attract attention in early fall but you will pay the price with the abundant number of leaves to rake. To develop a stronger, more durable tree, prune so that major limbs remain smaller than half the diameter of the trunk.

Silver Maple can be a prolific seed producer giving rise to many volunteer trees. It often sends up sprouts from the trunk and branches producing an unkempt appearance. There are numerous insect and disease problems. There are too many other superior trees to warrant wide use of this species but it does have its place in tough sites away from buildings and people. The species grows extremely fast so creates almost instant shade, making it a popular tree among homeowners throughout its hardiness range. This cultivar shares the fast growth rate.

Trees are susceptible to many pest problems.

There are a few cultivars but these also have weak wood: ‘Silver Queen’ - bright green leaves with lower leaf surfaces silvery; ‘Skinneri’- somewhat weeping, pyramidal form, dissected leaves with a better branching habit; ‘Weiri’ - cutleaved form with pendulous branches.

Trees are propagated from seeds and from cuttings.

**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.

Crimson erineum mite is usually found on silver maple and causes the formation of red fuzzy patches on the lower leaf surfaces. The problem is not serious so control measures are not suggested.
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.

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 will have no effect.

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