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Maple, Shantung (spp.)

Leaf Color Green
Fall Color Orange, red and yellow
This plant has attractive fall colors.

Leaf Identification
Type: Simple
Arrangement: Opposite
Venations: Palmate
Margins: Entire and lobed
Shapes: Star-shaped
Length: 2in./5cm to 8in./20cm

Fruit Color Green and tan

The fruit is dry and elongated.

Environment
This plant tolerates some drought and salt well.
This plant will grow in dry soil.
Suitable soil is well-drained/loamy, sandy or clay.
The pH preference is an acidic to alkaline (less than 6.8 to more than 7.7) soil.

Landscape Uses

- Container plantings
- Street tree
- Standard
- Specimen

Attributes and Features

- Inconspicuous blooms
- Inconspicuous fruit

Acer truncatum

Purpleblow Maple, Shantung Maple

Aceraceae (Maple)

Nomenclature: Royal Hort. Society

Type Tree, woody plant

Hardy range 3B to 8A
Height 20' to 40' / 6.00m to 12.20m
Spread 20' to 35' / 6.00m to 10.60m
Growth rate Slow
Form Rounded and vase shaped
Exposure Full shade to full sun
Persistence Deciduous

Bloom Color Green and yellow

Native Habitat

Northern China

Crown, Branch and Twig

This plant is symmetrical with a medium texture and has a moderately dense crown.

This plant's bark is not showy.

Branches or twigs are of medium thickness.

This plant is often grown with multiple trunks.

This plant can be trained to a single trunk.

This plant has low flammability.

Culture Notes

Purpleblow Maple has brilliant fall foliage color which makes it a great choice for planting near the patio or in another prominent location in the yard. The native habitat includes areas down to the high tide line near salt water where it forms thickets. This attribute should make this tree a natural candidate for planting in northern areas receiving regular de-icing salt applications, and in saline soils. Young vigorous trees put on five or six flushes a year.

It will leaf scorch very little in dry summers in full sun and is very drought-tolerant for a maple. It appears to tolerate the reflected light typical of urban areas very well. It has also performed well in urban planters provided they receive regular irrigation. The tree produced few viable seeds so it is unlikely to become an invasive plant like Norway Maple and Amur Maple have. Trees can be



hedged like *A. campestre* and is suited for planting near utility wires. All these attributes make this a great candidate for planting in urban landscapes.

The wood is considered diffuse porous which means that there is little difference in size between the spring wood pores and the summer wood pores.

Maintain adequate mulch area

Clear all turf away from beneath the branches and mulch to the drip line, especially on young trees, to reduce competition with turf and weeds. This will allow roots to become well established and keep plants healthier. Prune the tree so trunks and branches will not rub each other. Remove some secondary branches on main branches with included bark. This reduces the likelihood of the main branch splitting from the tree later when it has grown to become an important part of the landscape. Locate the tree properly, taking into account the ultimate size, since the tree looks best if it is not pruned to control size. The tree can enhance any landscape with its delightful spring flush of foliage. It can be the centerpiece of your landscape if properly located.

Use as a street tree

This plant can be grown as a multi-trunk tree for use in highway median strips and in landscapes, or can be used as a street tree where there is not a need for tall-vehicle clearance beneath the crown. The small stature and low, spreading, branching habit makes pruning for vehicular clearance difficult unless it is properly trained from an early age to develop one main trunk. The effort required initially to train this tree for street tree use, however, may be offset by its advantages.

Tree establishment specifications

Choose good quality trees for planting. The most common cause of young tree failure is planting too deep. In most instances, the point where the top-most root in the root ball originates from the trunk (referred to as the root flare zone or root collar) should be located just above the soil surface. You may have to dig into the root ball to find the root flare. If there is nursery soil over this area, scrape it off. Never place ANY soil over the root ball. The planting hole should be at least twice the width of the root ball, preferably wider because roots grow best in loose soil. In all but exceptional circumstances where the soil is very poor, extensive research clearly shows that there is no need to incorporate any amendments into the backfill soil. Simply use the loosened soil that came out of the planting hole. Simply planting with the topmost portion of the root ball slightly higher than the surrounding soil might still install the tree too deep - be sure to locate the root flare.

Weed suppression during establishment is essential. Apply a 3-inch thick layer of mulch to at least a six-foot diameter circle around the tree. This area should be at least two feet in diameter for each inch of tree trunk diameter and maintained during the establishment period. Apply a thinner layer of mulch directly over the root ball but keep it at least 10 inches from the trunk. This allows rainwater, irrigation and air to easily enter the root ball and keeps the trunk dry. Placing mulch against the trunk and applying too thick a layer above the root ball can kill the plant by oxygen starvation, death of bark, stem and root diseases, prevention of hardening off for winter, vole and other rodent damage to the trunk, keeping soil too wet, or repelling water.

Regular irrigation after planting encourages rapid root growth that is essential for tree establishment. Trees provided with regular irrigation through the first growing season after transplanting require about 3 months (hardiness zones 9-11), 6 months (hardiness zones 7-8), or one year or more (hardiness zones 2-6) per inch of trunk diameter to fully establish roots in the landscape soil. Trees in desert climates may take longer to establish. Trees that are under-irrigated during this establishment period (and most trees are) often require additional time to establish because roots grow more slowly. Be prepared to irrigate through the entire establishment period, especially during periods of drought.

Irrigation also helps maintain and encourage the desirable dominant leader in the tree canopy on large-maturing trees. Instead of a dominant leader, trees that are under-irrigated during the establishment period often develop undesirable, low, co-dominant stems and double leaders that can split from the tree later.

Unlike established plants, which do best with deep, infrequent irrigation, research clearly shows that recently transplanted trees and shrubs establish quickest with light, frequent irrigation. For trees planted in spring or summer, provide one (cooler hardiness zones) to three irrigations (warmer hardiness zones) each week during the first few months after planting. Daily irrigation in the warmest hardiness zones provides the quickest establishment. Following the initial few months of frequent irrigation, provide weekly irrigation until plants are fully established. With every irrigation, apply one (cool climates) to two (warm climates) gallons of water per inch trunk diameter (e.g. 2 to 4 gallons for a 2-inch tree) over the root ball only. In most landscapes that receive more than 30 inches of rain or irrigation annually, if the mulch area is maintained weed-free, irrigation does not need to be applied outside of the root ball. Never add water if the root ball is saturated.



In cooler hardiness zones, in all but the driest years, irrigation of spring- and summer-planted trees usually can be discontinued once fall color has begun. Irrigation of fall planted trees, however, should be continued until foliage has dropped from the deciduous trees in the region. In warmer climates, irrigate fall-and winter-planted trees as described for the spring- and summer-planted trees.

In drier, desert climates there is benefit to be gained from applying additional irrigation outside of the root ball area. This is best done by making a large diameter berm four to six inches high, then filling it with water so it percolates into the soil. For the first two years, irrigate twice each week through the spring, once per week in summer provided monsoons arrive, and twice each week again in fall if it remains warm. Taper off watering to once or twice each month in winter and resume twice weekly next spring. For years three to five, water twice per month in spring, summer, and fall and once or twice per month in winter. During years five through seven, water once every three weeks in warm weather and once every six weeks in winter. After this, the drought-tolerant desert trees should be able to survive on natural rainfall.

Trees with good, strong structure need no pruning at planting, except to remove broken twigs. Do not remove branches to compensate for root loss - research has shown that this can be detrimental to establishment.

Pests, Diseases and Damaging Agents

Purpleblow Maple is usually pest-free. Asian longhorn beetle, a new pest in certain sections of the US since 1996, attacks and kills maples.

This genus is sensitive to fluoride air pollution, sources of which include glass and brick manufacturing plants and other facilities that heat or treat with acid materials containing fluoride. Symptoms due to fluoride injury are more prominent on the side of the plant facing the pollution source. In deciduous plants, symptoms include leaf browning along the margins of the leaves. A dark brownish band may appear along the boundary between healthy green tissue and the affected brown tissue. Eventually, the entire leaf may turn brown. In conifers, the tips of the current year's needles turn reddish brown. Older needles are typically unaffected. If you suspect fluoride has injured this plant, look in the neighborhood for gladiolus plants. They serve as indicator plants for fluoride air pollution damage because they are very sensitive to it. Other sensitive plants include ash, maple, oak, white pine, poplar, and redbud. Plants that resist injury include birch, flowering cherry, dogwood, hawthorn, American linden, juniper, pear, spirea and sweet gum.

