

**Scientific Name:** *Acer saccharum*

**Common Name:** Sugar Maple

**Environmental Conditions:**

**Hardiness Zone:** 4 (3b with selection of appropriate genetic material)

**Soil Moisture:**

VERY WET												VERY DRY		
occasionally saturated or very wet soil			consistently moist, well drained soil			occasional periods of dry soil			prolonged periods of dry soil					
2	3	4	5	6	7	8	9	10	11	12				

\* **Adirondak**<sup>®</sup>, **Crescendo**<sup>™</sup>, **Fiddler's Creek**<sup>™</sup>, **'Legacy'**, and **Steeple**<sup>™</sup> reportedly better drought tolerance than species, **'Caddo'** (a western ecotype) is extremely drought tolerant

\* *Acer nigrum*, Black Maple, is closely related to *A. saccharum*, although it has a higher drought-tolerance, the *A. nigrum* selection **'Greencolumn'** is included on cultivar chart on following page

**Sun/Shade:** full sun

**Salt:** sensitive

**pH:** ≤ 7.5

**Other:** heat sensitive, **Apollo**<sup>™</sup>, **Bonfire**<sup>™</sup>, **Commemoration**<sup>™</sup>, **Crescendo**<sup>™</sup>, **'Legacy'**, and **Steeple**<sup>™</sup> reportedly more heat tolerant than species, **'Caddo'** (a western ecotype) is extremely heat tolerant

**Insect/Disease Factors:** *Verticillium* wilt can be a serious problem in some areas, leaf scorch can be serious (reportedly **'Goldspire'** is moderately resistant, **'Endowment'** and **'Wright Brothers'** are resistant, and **'Goldspire'** is highly resistant), **Bonfire**<sup>™</sup> shows good leafhopper resistance

**Growth Characteristics:**

**Height:** 45'-50' typical, 60'-75' possible (can grow 100'+ in wild)

**Width:** 35'-40' typical, 55'-70' possible

**Form/Habit:** oval to round

**Rate:** slow to medium

**Ornamental Characteristics:**

**Flower:** pale yellow pendulous clusters, early spring before leaves emerge

**Fruit:** 1" samara

**Seasonal Foliage Color:** medium to dark green in summer, varies from yellow, orange, to bright red in fall, typically excellent fall color

**Bark:** smooth gray bark in youth becomes furrowed with long scaly plates with age

**Transplant Issues:** easy to transplant B&B or ≤ 2" caliper bare root

**Management Issues:** none of significance

**Suggested Uses:** wide street tree lawns/pits due to drought sensitivity, parks

**Cultivars:** see chart on following page



*Acer saccharum* (Sugar Maple) cultivars:

Cultivar	Height	Width	Foliage	Fall Foliage	Growth Rate and Form/Habit variations from species
<b>Adirondak®</b> (‘Adirzam’)	60’-75’	25’-30’	glossy, dark green	golden-orange, turns and holds color late	pyramidal habit, dense
<b>Apollo®</b> (‘Barrett Cole’)	25’	10’	dark green	variable	dense branching, symmetrical
‘Arrowhead’	60’	30’-40’	large, dark green	yellow to orange	pyramidal, strong central leader, dense branching
<b>Bonfire™</b>	50’-65’	40’-50’	medium green	bright orange to red	faster growing
‘Caddo’ (describes a western ecotype)	30’-50’	variable	leathery, deeply lobed, dark green	variable, can be very showy	variable form/habit
‘Commemoration’	50’-60’	30’-35’	thick, glossy, dark green, tatter resistant	variable, turns early, drops foliage late	faster growing, dense branching, develops heavy caliper earlier
<b>Crescendo™</b> (‘Morton’)	45’ or 30’	40’	dark green	orange-red to red	
‘Endowment’	50’	20’	dark green	bright yellow, sometimes orange-red	slower growing
<b>Fall Fiesta™</b>	50’-75’	50’	glossy, thick, leathery, tatter resistant	variable	faster growing
<b>Fiddler’s Creek™</b> (‘Fidcezam’)	40’-50’	20’-25’	large, deeply cut, thick, leathery, glossy	variable	faster growing, dense
‘Goldspire’	40’-45’	12’-20’	leathery, dark green	bright yellow-orange	slower growing, dense
<i>A. nigrum</i> ‘Greencolumn’	50’	20’-25’	medium green	yellow to apricot-orange	upright, narrow, maintains central leader, columnar in youth
<b>Green Mountain®</b>	70’ (45’)	45’ (35’)	thick, leathery, dark green, tatter resistant	variable	faster growing, uniform growth, upright habit
‘Legacy’	50’	35’	glossy, thick, leathery, dark green, tatter resistant	variable	faster growing, dense, symmetrical at early age
<b>Majesty®</b> (‘Flax Mill Majesty’)	50’-80’	40’-50’	dark green	orange to red	faster growing, develops heavy caliper and full branching earlier, symmetrical
‘Seneca Chief’	50’	30’	dark green, larger	golden-orange	faster growing, muscle-like bark, dense branching
<b>Steeple®</b> (‘Astis’) *cold hardy only to zone 5	45’	20’	dark green	yellow-orange	narrow, symmetrical
‘Wright Brothers’ (formerly ‘Moraine’)	50’-75’	35’		variable	faster growing, develops heavy caliper earlier

\* ‘Arrowhead’, Adirondak®, Green Mountain®, Majesty®, ‘Seneca Chief’, ‘Wright Brothers’ sometimes listed as Zone 3