



# Environmental Horticulture Notes

EHN 1

## SACRAMENTO AREA LANDSCAPE TREES

This chart is to be used as a quick reference to a few of the more common trees found growing in and around Sacramento. Both good and undesirable growing habits and growth characteristics are featured.

This is not a list of "recommended trees" for the Sacramento area, nor is it a complete list of all trees that will or do grow in the area. Trees marked with an asterisk (\*) should be considered very carefully before being planted. The 'Remarks' column will note the less than desirable characteristics of the tree. The problems may include insect or disease pests, an undesirable root system and a short life span in our climate.

Trees included on this list are generally available at local nurseries, however there are a few trees that may be more difficult to locate. Also, some trees may have been left off the list because they are nearly impossible to find.

Mature specimens of many of the listed trees can be viewed at Capitol Park, SMUD on 65<sup>th</sup> Street, the CSUS Goethe Arboretum, and the UC Davis Arboretum.

The following books will provide additional information:



*Sunset Western Garden Book*

*All About Trees - by Ortho*

*Taylor's Guide to Trees*

Peterson Field Guides: *Western Trees and Eastern Trees*

*Trees of North America and Europe - by Roger Phillips*

*Simon and Schuster's Guide to Trees*

*The Audubon Society Field Guide to North American Trees:*

*Eastern Region and Western Region*

*Plants That Merit Attention, Volume 1, Trees*

*North American Landscape Trees - by Arthur Lee Jacobson*

*Durr's Hardy Trees and Shrubs - Michael A. Durr*

October 2001, revised; December 1986 written by UC Master Gardeners. Edited by Pamela S. Bone, Horticulturist and Judy McClure, Master Gardener Program Coordinator.

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Also, Brad Hudson, County Executive; Ann Edwards, Countywide Services Agency; and Yvonne Nicholson and Chuck Ingels, Cooperative Extension.

DECIDUOUS TREES	HEIGHT	SPREAD	ROOTS	GROWTH	LEAVES	FLOWERS	FRUIT	FALL COLOR	SOIL	REMARKS
Acer buergeranum Ay'ser bur-jer-ay'num TRIDENT MAPLE	20-35'	20-35'	deep	mod-fast, round head	simple, opposite, 3-lobed	yellowish, small	winged seeds	red, orange, yellow	moist, drained	adaptable to most conditions, shreddy bark with age
Acer campestre Ay'ser kam-pes'tre HEDGE MAPLE	20-35'	20-35'	deep	mod-fast, round head	simple, opposite, 3-5 lobes	greenish, small	winged seed	yellow	moist, drained	widely adaptable, corky ridges on bark
Acer ginnala Ay'ser gin-nā'la AMUR MAPLE	to 20'	to 20'	deep	slow-mod, round head	simple, opposite, 3-lobed	yellowish, fragrant clusters	winged seed	red	moist, drained	very hardy, adaptable
Acer palmatum Ay'ser pal-may'tum JAPANESE MAPLE	15-25' varies with variety	15-30'	shallow, not invasive	mod-slow	simple, opposite, lobed	purple, clusters spring	winged seed	Varies with variety	moist drained	takes cold, no afternoon sun or wind, occasional aphids, verticillium wilt, leaves may scorch in heat & sun
Acer platanoides Ay'ser pla-tan-oy'deez NORWAY MAPLE	50-60'	40-50'	shallow	fast, round head	simple opposite, 5-lobed	small, greenish yellow	winged seed	yellow	moist drained	branches may become brittle and break, may scorch, subject to aphids, "Crimson King" has purple leaves and is slower growing
Acer rubrum Ay'ser roo'brum RED MAPLE	40-60'	40-60'	medium	rapid, spreading,	simple, opposite, lobed	red, spring	winged seed	scarlet, orange, yellow	moist, drained	takes cold, salts, sun, occasional aphids, "Red Sunset" and "October Glory" have excellent color
Acer saccharinum* Ay'ser sak-ka-ri'num SILVER MAPLE	40-60'	30-50'	shallow, spreading, invasive	rapid, oval top	large, deep lobed	green-yellow clusters, spring	winged seed	bright yellow	moist, drained	takes sun or shade, many soils, brittle branches, susceptible to aphids, verticillium wilt
Aesculus californica Es'kew-lus kal-iff-orn'ik-a CALIFORNIA BUCKEYE	15-40', 10-25' in arid conditions	30-40''	shallow, spreading	moderate, round head	opposite, palmate, compound	creamy spikes, spring	gray-green pod, brown seed	brown, late summer	dry, drained	takes sun, wind, shade, drought, produces much litter, seed/flower poisonous, drops leaves in summer, California native
Aesculus carnea Es'kew-lus kar'ne-a RED HORSE-CHESTNUT	30-50'	30-40'	deep	slow-mod, round head	opposite, palmate, compound	red/pink spikes, April – May	brown pods		moist, well drained	drops leaves early, leaves scorch in full sun
Ailanthus altissima* Ay-lan'thus al-tiss'im-us TREE-OF-HEAVEN	30-70'	40-70'	shallow suckers	rapid, flat top	alternate, compound, 31 leaflets	yellowish, terminal clusters	yellow to red, winged seed	yellow brown	any	takes any growing condition, male flowers offensive, plant female tree only, considered weedy
Albizia julibrissen Al-bizz'ee-a ju-li-bris'sen SILK TREE-MIMOSA	25-30'	25-40'	shallow	rapid, flat top	alternate, compound, 30 leaflets	pink fluffy balls, mid- summer	flat pods		moist, if drained	takes sun, cold, poor soil, salts, drought, susceptible to verticillium wilt, litters, seeds sprout

DECIDUOUS TREES	HEIGHT	SPREAD	ROOTS	GROWTH	LEAVES	FLOWERS	FRUIT	FALL COLOR	SOIL	REMARKS
Alnus cordata Al'nus kor-day'ta ITALIAN ALDER	35-40'	20-25'	shallow, may be invasive	rapid, pyramidal	simple, alternate, toothed	green catkins	small brown cones		most, moist	takes sun or shade, roots more restrained than A. rhombifolia
Alnus rhombifolia* al'nus rom-bi-fo'li-ya WHITE ALDER	40-60'	20-40'	shallow, invasive	rapid, pyramidal	simple, alternate, toothed	green catkins	small brown cones		moist	takes sun or shade, California native, serious borer problem in Sacramento, short-lived
Betula nigra Bet'yew-la ni'gra RIVER BIRCH	50-90'	to 30'	water deeply to encourage deep roots	rapid, broadly pyramidal	simple, alternate, toothed	green catkins	conelike, but shatter	yellow	moist	resistant to bronze birch borer, Bark flakes and curls on older trees to reveal cinnamon, salmon, brown shades
Betula pendula Bet'yew-la pen'dew-la WHITE BIRCH	20-40'	8-15'	shallow, medium	rapid, pyramidal	simple, alternate, toothed	green catkins	conelike, brown, but cones shatter	yellow	most, moist	takes sun, shade, susceptible to borers if topped, sunburned or stressed for water, roots sensitive to "lawn herbicides", 'Dalecalica' (Cutleaf Weeping Birch) more stressed by hot, dry conditions
Betula platyphylla japonica Bet'yew-la pla-ty-phil'la ja-pon'i-ka JAPANESE WHITE BIRCH 'WHITESPIRE' BIRCH	40-50'	to 25'	water deeply to encourage deep roots	fast, narrowly pyramidal	simple, alternate, toothed	inconspicuous	conelike, but shatter	yellow	moist	resistant to bronze birch borer, white bark
Carpinus betulus Kar-py'nus bet'yew-lus EUROPEAN HORNBEAM	30-40'	30-40'	deep	slow-mod, densely pyramidal	simple, alternate, toothed	yellow	3-pronged seed, wings in drooping clusters		moist, but adaptable	retains leaves into winter, "fastigiata" narrow in youth becoming oval to 25' wide
Castanea sativa kas-tay'ne'a sa-ti'va SPANISH CHESTNUT	40-60'	20-40'	deep	moderate	simple, alternate, toothed	catkins with creamy white, small flowers	edible nuts, enclosed in prickly burrs		moist, well drained	litter, pollen has disagreeable odor
Catalpa bignonioides* ka-tal'pa big-no-ni-oy'deez CATALPA-CIGAR TREE	40-60'	40-65'	deep	rapid, round top	simple, opposite, entire	white clusters, May-June	to 12" brown pods		most	takes sun, shade, cold, salts, drought, weak-wooded, messy, short-lived, tropical looking
Celtis australis Sel'tis aw-straw'lis EUROPEAN HACKBERRY	50-70'	40-50'	medium to deep	fast, round head	simple, alternate, toothed	inconspicuous	small purple berries		most	takes sun, wind, smoke, dust, drought, one of the best species for lawns, parking lots
Celtis occidentalis Sel'tis ok-si-den-tay'lis COMMON HACKBERRY	40-50+	40-50'	medium	moderate, round, oval crown	simple, alternate, toothed	greenish inconspicuous	dark purple berries	yellow	most, adaptable	tolerates drought, wind, smoke, dust, dry heat
Celtis sinensis Sel'tis si-nen'sis CHINESE HACKBERRY	40-50'	40-60'	medium to deep	fast, round head	glossy toothed	inconspicuous	small, dry, scarlet berries	not effective	most	takes sun, wind, smoke, dust, drought, smaller tree & leaves than European hackberry, good lawn tree

DECIDUOUS TREES	HEIGHT	SPREAD	ROOTS	GROWTH	LEAVES	FLOWERS	FRUIT	FALL COLOR	SOIL	REMARKS
<i>Cercis canadensis</i> ser'sis kan-a-den'sis EASTERN REDBUD	20-30'	25-30'	deep	moderate	simple, alternate, heart-shaped	½" long, pink, pea-like, late Mar – early April	2-3" long pods	yellow, brown	moist, well drained	sun or partial shade, does not tolerate wet conditions with poor drainage, most common cultivars include 'Alba' (white flowers) 'Forest Pansy' (purple foliage, needs some shade) 'Oklahoma' (wine red flowers with thick glossy leaves)
<i>Cercis occidentalis</i> Ser'sis ox-id-ent-tay'lis WESTERN REDBUD	10-18'	10-18'	medium	slow-mod, shrub or tree	heart- shaped	magenta, spring	brown pods	yellow to red	most, drained	takes sun, drought, cold, California Native, oakroot fungus resistant
<i>Chionanthus retusus</i> Kī-o-nan'thus re-tu'sus CHINESE FRINGE TREE	to 20'	to 20'	deep	slow, round head	simple, opposite	small, white, in showy clusters	blue berry on female	vivid yellow	moist, well drained	best in sunny but sheltered location
<i>Chitalpa taskentensis</i> Chi-tal'pa tas-ken-ten'sis CHITALPA (Hybrid of <i>Chilopsis linearis</i> & <i>Catalpa bignoniodes</i> )	20-30'	20-30'		mod-fast	simple, alternate, entire	long blooming, pink ('Pink Dawn'), white ( 'Morning Cloud')		yellowish – green	well drained	tolerates drought
<i>Cladrastis lutea</i> Kla-dras'tis lu'tēa YELLOWWOOD	30-35'	15-20'	deep	slow, open, rounded crown	alternate, compound	white, fragrant, pendant, bloom may skip years and may not bloom until 10 years	flat, thin pods 3-4" long	yellow	moist, well drained	brittle branches with narrow crotches
<i>Cornus florida</i> Kor'nus flor'id-a FLOWERING DOGWOOD	15-20'	15-25'	deep	slow – moderate, flat top	simple, opposite, entire	white, pink bracts April	scarlet berry clusters	red	Well drained	needs some shade, no wind, will scorch in full sun, best under other trees
<i>Cornus kousa</i> Kor'nus koo'sa KOUSA DOGWOOD	20-30'	15-20'	deep	slow – mod, round crown	simple, opposite, entire	white, petal- like bracts with pointed tips	like large raspberries		acid, well drained	resistant to anthracnose, afternoon shade, blooms later than <i>Cornus florida</i>
<i>Cotinus coggyria</i> Ko-ty'nus ko-jy'gree-ah SMOKE TREE	12-15'	10-15'	medium	moderate, round head	simple, alternate, entire	yellow clusters, May-June	pinkish clusters, June-July	scarlet, orange	Well drained	takes sun, desert conditions, poor soil, multi-trunk tree, at its best under stress, 'Royal Purple' retains purple leaves through the summer
<i>Crataegus laevigata</i> Krat-ee'gus lee-vi-gay'ta ENGLISH HAWTHORN	18-25'	15-20'	medium	moderate, round head	simple, alternate, toothed	white clusters, May-June	scarlet berries	red, orange	most	takes sun, salts, drought, cold, susceptible to aphids, fireblight, leafspot, has thorns, many color variations, 'Paul's Scarlet' a favorite

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Crataegus phaenopyrum Krat-ee'gus fee-no-py'rum WASHINGTON THORN	20-30'	20-25'	medium	moderate round, zigzag	simple, alternate, toothed	white clusters, May-June	red berries	red, orange	most, drained	takes sun, salt, drought, cold may get aphids, has thorns, least susceptible to fireblight
Diospyros kaki Di-os'-pi-ros ka-ke ORIENTAL PERSIMMON	25-30'	30-40'	deep	moderate, round head, wide spread	simple, leathery, oval	yellow/white, not showy	orange, scarlet, fleshy	yellow, orange, scarlet	most, drained	full sun, drought tolerant, good lawn tree, 'Fuyu' apple-like fruit, 'Hachiya' large pointed fruit, eat when mushy
Fagus sylvatica Fay'-gus sil-vat'i-ca EUROPEAN BEECH	50-60'	35-50'	shallow	moderate, round head, pyramidal	alternate, simple, entire	inconspicuous	small prickly burr	bronze	moist well drained	doesn't like dry heat. 'Atropunicea' Copper Beech, Purple Beech most commonly planted cultivar has red leaves that darken to purple
Firmiana simplex Fir-mi-ay'na sim'plex CHINESE PARASOL TREE	20-40'	15-40'	average to deep	mod-fast, round head	alternate, simple, palmate	small, greenish white	Pods 2-4" long with pea-sized seed along edge	bright yellow	moist, well drained	brownish fluid released by opening seed pods
Fraxinus velutina* Frax-eye'nus vel-yew'tin-a ARIZONA ASH (Modesto Ash)	30-50'	20-40'	shallow, invasive	moderate, round head	opposite, compound, 3- 5 leaflets	not effective	brown, winged	deep yellow	most, moist	subject to anthracnose (fungus), aphids, borers, plant bugs, mistletoe, narrow crotch angles cause splitting, over planted, sensitive to lawn herbicides.
NOTE: F. holotricha 'Moraine', F. oxycarpa 'Raywood', and F. uhdei-Evergreen ash, have been popular substitutes for Arizona and Modesto Ash. Consider carefully before planting, because a serious pest, the ash/lilac borer, attacks and may kill young trees. Control is difficult once the borer is inside the tree. For more information on control, contact this office.										
Gleditsia triacanthos Gled-it'sia tri-a-can'thos THORNLESS HONEY LOCUST	50-60'	50-60'	medium, spreading, invasive	fast, open spreading	alternate, compound, many leaflets	greenish, fragrant, May-July	brown seed pods	yellow	any	takes heat, cold, salts wind, drought, gets honey locust pod gall midge (no control), lacy looking, good lawn tree 'Moraine' and 'Sunburst (yellow new foliage) subject to wind breakage
Gymnocladus dioica Jim-nok'la-dus di-o'-i-ca KENTUCKY COFFEE TREE	50-60'+	45-50'	deep	slow, rounded crown	alternate, compound, entire	small, greenish white, fragrant on female	female has 6-10" long pods	yellow	moist, well drained	light shade, picturesque habit in winter
Juglans hindsii Joo'glans hind'si-eye CALIFORNIA BLACK WALNUT	30-60'	40-70'	deep	moderate, broad head	alternate, compound, 19 leaflets	not effective	edible brown nuts	yellow	deep, well drained	susceptible to aphids, drought tolerant, does poorly in lawns, other plants don't do well underneath
Koelreuteria bipinnata kol-rew-tere'ee-a by-pin-na-ta CHINESE FLAME TREE	20-40'	30-40'	deep	slow-mod, flat-topped	compound, alternate, papery cap- sules 2" long in orange, red or salmon	small yellow flowers in large showy loose upright	2" long capsules, rose-pink	yellow	most, well drained	moderate watering, withstands wind, drought, heat, air pollution

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Koelreuteria paniculata Kol-rew-tere'ee-ah GOLDENRAIN TREE	20-30'	15-20'	deep	slow, round head	alternate, compound, 15 leaflets	yellow panicles, May-June	red-brown papery capsule	yellow	most, drained	takes sun, cold, salts, drought, wind, smoke, dust, & heavy clay soils if drained, seeds sprout
Laburnum watereri La-bur'num wa'ter-eri GOLDENCHAIN TREE	20-30'	12-15'		moderate, upright, vase-shaped	alternate, compound, trifoliolate	yellow pea-like in 10-20" long pendulous clusters	Pods poisonous		moist, well drained	subject to chlorosis in alkaline sols, needs afternoon shade but good air circulation
Lagerstroemia indica La-ger-strome'ee-ah in'dic-a CRAPE MYRTLE	10-25'	10-25'	shallow	moderate, vase-shaped	simple, opposite, entire	pink, red, white, lavender purple panicles July-Sept.	brown, woody capsule	red, gold	most, drained	needs full sun, tolerates some drought, cold, some salts, suckers, susceptible to powdery mildew, must prune yearly for flowers, Indian tribes varieties (e.g. 'Muskegee', 'Tuscarora', 'Natchez') are mildew resistant
Liquidambar styraciflua* Lik-wid-amb'ar sty-rass-iff'lew-a LIQUIDAMBAR-SWEET GUM	50-60'	20-25'	shallow, surface, invasive	moderate, pyramidal	simple, alternate, 7 lobes	yellow, spring	thorny, brown burs	crimson, yellow, orange, varies with variety	deep, moist	litters burs, roots heave pavement, susceptible to redhumped caterpillar, 'Rotundiloba' (purple foliage does not form seed balls in fall.) Branches on older trees subject to breakage
Liriodendron tulipifera Li-re-o-dend'ron tew-lip-if'er-a TULIP TREE	50-80'	25-40'	deep, spreading	moderate, pyramidal	simple, alternate, entire	greenish yellow and orange May	brown seed-cones	yellow	deep, moist	takes sun, cold, susceptible to scale, aphids, has unusual lyre-shaped leaf, good lawn tree
Magnolia soulangiana Mag-nol'ee-ah sue-lan-gee'ana SAUCER MAGNOLIA	15-25'	15-30'	deep, fibrous	slow, oval top	simple, alternate, entire	white, pink, purplish fragrant, Feb-March	Red seeds in pinkish cones, seldom seen		moist, drained	roots sensitive to digging or moving, incorrectly called "Tulip Tree"
Magnolia stellata Mag-nol'ee-ah stell-ay'ta STAR MAGNOLIA	to 15'	to 15'	deep, fibrous	slow, shrubby, rounded	simple, alternate, entire	white, Feb-March		yellow, brown	moist, drained	roots resent digging or moving
Malus species May'lus CRABAPPLE	most 15-25' but can be 8-40'	most 15-25' but can be 10-40'	deep	most moderate, structure varies	simple, alternate, toothed	white, pink red, single to double	varies widely	red, orange or yellow	adaptable	more tolerant of wet soils than many flowering trees, may get fire blight
Melia azedarach* Mee'lia az-ed'ay-rak CHINA BERRY (Texas Umbrella)	25-40'	30-40'	medium	moderate, umbrella, spreading	alternate, compound, many leaflets	lilac clusters April-May	yellowish white, hard berries		most, dry	takes sun, cold, salts drought, poor soil, berries poisonous, weak-wooded, short-lived, suckers, berries sprout
Morus alba 'Fruitless'* Mo'rus al'ba WHITE MULBERRY	30-60'	30-60'	shallow, surface, invasive	rapid, round head	simple, alternate, toothed	not effective	no fruit	yellow, brown	most, drained, dry	casts dense shade, roots extremely invasive, subject to chlorosis, bacterial blight, over planted

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Nyssa sylvatica Nis'sa sil-vat'i-ka TUPELO-SOUR GUM	30-40'+	15-30'	medium	slow to moderate, pyramidal	simple, opposite, entire	green, white April-June	blue-black on female	scarlet, orange	most, wet	tolerates poor drainage, susceptible to chlorosis in alkaline soils, one of the best lawn trees for fall color
Paulownia tomentosa Pah-low'ne-a toe-men-toe'sa EMPRESS TREE	30-50'	30-50'	shallow	fast, broad, open crown	simple, opposite, very large, ovate	lavender, showy, fragrant, April	egg-shaped seed capsule		prefers moist well drained but is adaptable to most	litter from seeds, flowers and leaves can be problems, avoid windy areas because of brittle branches and leaf damage, relatively short-lived, frost tender
Pistacia chinensis Pis-tay'shia chi-nen'sis CHINESE PISTACHE	30-40'+	30-40'	deep	slow, umbrella, zigzag	alternate, compound, 6 pr leaflet	male, female trees	reddish seeds on female	orange, red	most, drained	takes sun, drought, cold to 20°, gawky when young, susceptible to verticillium wilt in poorly drained situations. Good lawn tree.
Platanus acerifolia Plat'a-nus ay-ser-I-fo'lia LONDON PLANE TREE	40-60'	40-60'	medium	rapid, round top	simple, alternate, lobed	not effective	brown, ball-like persistent	brown	most, poor	tolerates smog, drought, heat, winter flooding, susceptible to scale, spider mites, powdery mildew, anthracnose, drops leaves all summer, hairy leaves irritating
Note: Variety 'Bloodgood' resistant to anthracnose, 'Yarwood' resistant to powdery mildew. Powdery mildew is the more prevalent disease in Sacramento except during extended rainy seasons										
Platanus racemosa Plat'a-nus ras-see-mo'sa CALIFORNIA SYCAMORE	40-90'	50-70'	shallow, spreading	rapid, round top	simple, alternate, lobed	not effective	brown, ball-like persistent	brown	deep	takes sun, shade, cold, salts, susceptible to spider mites, scale, anthracnose, attractive bark, leaves turn early, California native
Populus alba* Pop'yew-lus al'ba WHITE POPLAR	40-60'	40-60'	shallow, spreading, invasive	rapid, broad head	simple, alternate, lobed	catkins		yellow	any, wet or dry	takes sun, shade salts, susceptible to thrips, leafhoppers, suckers profusely, plant at least 30' from sewer lines, short-lived
Prunus species- There are many varieties of flowering plum and cherry. Most are small trees to about 20-30'. <u>Prunus cerasifera</u> , 'Atropurpurea', purple leaf plum, has been somewhat overplanted. If not thinned it is prone to blow over. Check Sunset Western Garden Book for list of the many Prunus species and varieties. Flowering plums subject to aphids, scale, borers. Relatively short-lived. Flowering cherries are subject to borers and are short-lived in heavy clay soils.										
Pyrus calleryana Py'rus kal-ery'an-a ORNAMENTAL PEAR	20-40'	25-30'	deep	fast, pyramidal	simple, alternate, toothed	white clusters, March	small, inedible	scarlet red	most, moist	resists fireblight, 'Bradford' has narrow crotches subject to breakage. See Sunset Western Garden Book for information on newer improved varieties like 'Redspire' and 'Chanticleer'
Quercus coccinea Kwer'kus kok-sin'ea SCARLET OAK	60-80'	35-40'	deep, spreading	fast, open head	simple, deep lobes	catkins	acorn, deep cup	scarlet	rich, deep	takes sun, some drought, excellent lawn/street tree, best oak for fall color, fairly pest free
Quercus douglasii Kwer'kus dug-las-si'eye CALIFORNIA BLUE OAK	40-60'	25-50'	shallow, spreading	slow, round head	simple, alternate, lobed	catkins	acorn, shallow cup	orange, brown	poor, dry	takes heat, drought, litters, plant by itself and ignore, resents excess water, California native
Quercus lobata Kwer'kus lo-bay'ta VALLEY OAK WHITE OAK	50-70'	50-70'	deep	slow-mod, broad, spreading	simple, alternate, lobed	catkins	acorn, shallow cup	yellow, brown	deep, drained	takes sun, drought, gets oak galls, long-lived, don't over water in growing season, but will tolerate winter flooding, California native

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Quercus palustris Kwer'kus pal-us'tris PIN OAK	50-80'	25-40'	deep, fibrous	fast, broad pyramid	simple, alternate,	catkins	acorn, deep cup	scarlet	rich, moist drained	takes sun, needs watering, subject to chlorosis in alkaline soil, brown leaves hang on all winter, good lawn tree, subject to aphids and other insects
Quercus phellos Kwer'cus fel'los WILLOW OAK	50-80'	20-40'	deep	mod-fast, conical or rounded crown	simple, alternate, narrow, like willow	catkins	acorns	yellow-red	moist, well drained	beautiful fine textured tree
Quercus robur Kwer'cus ro'bur ENGLISH OAK	50-80'	40-50'	deep	mod-fast, broad, rounded	simple, alternate, lobed	catkins	acorns	yellow-brown	adaptable	also in a narrow form 'Fastigiata' with a spread of only 15', subject to mildew and dieback
Quercus rubra Kwer'kus roo'bra RED OAK	60-80'	40-50'	deep	fast, round top	simple, alternate, lobed	catkins	acorn	red, brown, orange	deep, moist	takes water, smog, makes good lawn tree, Q. coccinea has better fall color in valley
Quercus shumardii Kwer'cus shu-mar'dee SHUMARD OAK	60-80'	40-60'	deep	mod-fast, rounded crown	simple	catkins	acorns	red	adaptable	tolerates adverse sites, particularly alkaline clay
Robinia pseudoacacia* ro-bin'i-a soo-do-a-ka'sha BLACK LOCUST	40-70'	30-60'	medium, spreading, invasive	rapid, sparse, open	alternate, compound	fragrant, white, pea-shaped clusters	brown, bean-like pods	yellow	most, any	takes hot, dry areas, poor soil, has brittle branches, thorns, root suckers, short-lived, attracts bees, purple & pink flowered varieties
Sapium sebiferum Say'pium seb-iff'er-um CHINESE TALLOW TREE	35-40'	35-40'	shallow, some surface	fast, round top	heart-shaped	yellow, catkin-like	small, gray-white clusters	red, yellow, orange	most, moist	takes sun, acid soil, good lawn tree, resists oak root fungus, prune young tree for structure, small twigs die back, roots may sucker
Sophora japonica Soff-or'a ja-pon'i-ka JAPANESE PAGODA TREE	30-40'	20-40'	deep	mod, round top	alternate, compound, 17 leaflets	creamy white clusters July-Aug	yellow, bead-like pods		most	takes sun, cold, drought, dust, smoke, flowers attract bees, good lawn tree, fruit slippery, susceptible to verticillium wilt
Sorbus aucuparia Sor'bus ah'ku-pear-ee-a EUROPEAN MOUNTAIN ASH, ROWAN TREE	20-30'	15-20'	deep	mod-fast, round head	alternate, pinnate, toothed	flat clusters of white flowers in spring	orange/ red fruit in fall	orange/ red	moist, well drained, acid	prefers cooler areas, subject to sunburn and borers in hot climates
Styrax japonicus Sty'rax ja-pon'i-ka JAPANESE SNOWBELL	20-30'	20-30'	deep	slow-mod, round head	simple, alternate, toothed	white, bell-shaped, pendulous	½" ovoid drape	yellow	moist, well drained	beautiful flower clusters, attractive from underneath
Tilia americana Til'ia a-mer-i-ca'na AMERICAN LINDEN	40-60'	30-50'	deep	mod-fast, round head	simple, alternate, toothed, heart-shaped	yellowish-white flowers, fragrant	gray/ green nutlet clusters	yellow	moist, well drained	good lawn tree, may attract aphids, attracts bees
Tilia cordata Til'ia cor-day'ta LITTLE LEAF LINDEN	30-50'	20-30'+	deep	slow-mod, pyramidal in youth, becoming rounded	simple, opposite toothed	fragrant clusters, May	gray/ green nutlet clusters	yellow	fertile, moist	takes sun, cold, some shade, susceptible to aphids, good lawn tree, attracts bees
Zelkova serrata Zel-ko'va ser-ray'ta ZELKOVA	50-60'	50-70'	shallow	mod to fast, vase-shaped	simple, alternate, toothed	inconspicuous	small seed 1/8"	red, russet, yellow	most	takes sun, cold, wind, salts, drought



DECIDUOUS TREES	HEIGHT	SPREAD	ROOTS	GROWTH	LEAVES	FLOWERS	FRUIT	FALL COLOR	SOIL	REMARKS
Zizyphus jujube Zy'siff-us ju-ju'be JUJUBE-CHINESE DATE	20-30'	20-30'	medium, some surface	slow, open zigzag	simple, alternate, toothed	small yellow, June-July	red/ brown, date-like, edible	yellow	deep, moist	tolerates some drought, salts, cold, roots may sucker

BROADLEAF EVERGREEN TREES	HEIGHT	SPREAD	ROOTS	GROWTH	LEAVES	FLOWERS	FRUIT	FALL COLOR	SOIL	REMARKS
Acacia baileyana* A-kay'sha bay-li'an-a BAILEY ACACIA	15-25'	15-30'	shallow, spreading	rapid, round spreading	compound, to 60 leaflets	fluffy gold- yellow, Jan-March	seed pods		dry, well drained	tolerates drought, sun, shade, no cold, roots may sucker
Acacia melanoxylon* A-kay'sha mel-an-ox'i-lon BLACKWOOD ACACIA	30-40'	20-40'	shallow, spreading, invasive	rapid, broad, pyramidal	simple, alternate	fluffy, cream-white, Mar-April	brown seed pods		dry, well drained	tolerates drought, some salt, sun, no cold or strong wind, short-lived, litters, brittle, roots heave pavement
Arbutus unedo Ar-bew'tus yew-ne'doe STRAWBERRY TREE	10-35'	8-35'	medium	slow, irregular, rounding	simple, alternate, entire	white, urn- shaped fall	red berries, edible but mealy & tasteless		drained, acid	tolerates drought, water if well drained, attractive shreddy bark, messy fruit, occasional aphids, needs pruning to make into a tree
Casuarina equisetifolia kas-ew-a-rec'na ee-kwi-see-ti-fo'lia BEEFWOOD HORSETAIL	40-70'	15-25'	shallow	rapid, drooping, pine-like	needle-like branchlet		red/ brown cones		poor	takes wet or dry soil, acid, salts, good windbreak, litters, tough tree
Ceratonia siliqua Ser-a-ton'i-a sil-lee'qua CAROB	20-45'	20-55'	medium	slow, round compact	alternate, compound, 10 leaflets	yellow racemes, spring	brown, 12" edible pods		deep, well drained	takes salts, heat, drought, dust, smog, needs male & female tree for fruit, top heavy, may blow over in shallow soil, thinning helps
Cinnamomum camphora Sin-am-o'mum kam-for'a CAMPHOR TREE	30-50'	30-60'	shallow, stout, invasive	slow, round spreading	simple, opposite, entire	yellow clusters, June	black berries	yellow, bronze in cold	most, drained	takes sun, shade, drought, water deeply, susceptible to vert. wilt, new growth bronze color, loses many leaves in March, litters, brittle branches
Eriobotrya japonica E-rio-bot'ria jap-on'ik-a LOQUAT	15-30'	15-30'	medium	mod, round, compact	simple, alternate, entire	white, fragrant Nov-Jan	orange, yellow, edible		most, drained	takes sun, drought, alkaline soil, susceptible to fireblight, messy fruit
Eucalyptus nicholii Yew-kal-ip'tus ni'ko-li NICHOL'S WILLOW- LEAFED EUCALYPTUS	to 40'	to 30'	shallow, invasive	rapid, weeping, crown	simple, alternate, entire	small, white Jan-March	brown-urn capsules, May-June		most, drained	takes sun, wind, drought, some cold, litters, thin top to prevent toppling, tolerates poor soil
Eucalyptus polyanthemos Yew-kal-ip'tus poly-an'them- os SILVER DOLLAR GUM	40-50'	10-40'	shallow, invasive	rapid, uneven crown	simple, alternate, entire	small, white Jan-March	brown-urn capsules, May-June		most, drained	takes sun, wind, drought, salts, some cold, litters, tolerates poor soil

<b>BROADLEAF EVERGREEN TREES</b>	<b>HEIGHT</b>	<b>SPREAD</b>	<b>ROOTS</b>	<b>GROWTH</b>	<b>LEAVES</b>	<b>FLOWERS</b>	<b>FRUIT</b>	<b>FALL COLOR</b>	<b>SOIL</b>	<b>REMARKS</b>
Eucalyptus sideroxylon Yew-kal-ip'tus sy-der-ox'il-ib RED IRONBARK	30-50'	10-40'	mod,, spreading	mod, open crown	simple, alternate, entire	rose colored, Nov-Feb	brown capsules		most, drained	takes sun, wind, smoke, dust, some cold, poor soil, salts, drought non- shedding bark, best adapted eucalyptus to wide range of conditions
Grevillea robusta* Grev-ill'ea ro-bus'ta SILK OAK	40-60'	20-35'	shallow, invasive	rapid, open head	compound, toothed, leaflets	orange sprays, May-June	brown woody pods		most, well drained	takes sun, frost damage, no wind, grows in poor compacted soil, litters, brittle wood, temporary tree, drops leaves regularly
Heteromeles arbutifolia Het-er-o-mee'leez ar-bew-ti- fo'lia TOYON-CHRISTMAS BERRY	15-25'	15-20'	medium	mod, shrub or tree	simple, toothed	white clusters, June-July	red berries		most, drained	takes sun, part shade, drought, susceptible to scale, thrips, aphids, thrives if watered, but is drought tolerant, CA native, prune to one trunk
Laurus nobilis Law-rus no'bil-is SWEET BAY GRECIAN LAUREL	30-40'	20-40'	deep	slow, compact, conical	simple, entire	yellow, green, spring	black berries		most, well drained	takes sun, shade, leaves used for seasoning (commercial bay leaf), container tree, takes well to pruning, suckers
Ligustrum lucidum* Ly-gus'strum loo-sid-um GLOSSY PRIVET	25-35'	15-20'	deep	rapid, round head	simple, opposite, entire	white, fragrant, July-Aug	black berries, Sept-Feb		most	takes sun, some shade, drought, salts, messy, berries sprout everywhere
Magnolia grandiflora Mag-no'lia gran-di-flo'ra SOUTHERN MAGNOLIA	50-60'	40-50'	shallow to deep, invasive	slow, round head	simple, alternate, entire	white, fragrant Apr-July	brown-egg shape, red seed		deep, moist	takes sun, wind, some cold, litters year round, massive roots compete with lawn. See Sunset for available smaller varieties
Maytenus boaria May-tee'nus boa'ree-a MAYTEN TREE	20-40'	10-30'	deep	slow, round, weeping	simple, alternate, toothed	green-white clusters, May-June	small scarlet capsules		most, well drained	takes sun, shade, heat some cold, salts, drought, 'Green Showers' has uniform canopy, must have excellent drainage, dieback of branches from fungus
Pyrus kawakamii Py'-rus ka-wa-kam'i EVERGREEN PEAR	25-30'	25-30'	medium to deep	mod, open, irregular	simple, opposite, entire	white clusters, spring	small, inedible		most	takes sun, cold, susceptible to aphids, leafspot, fireblight, must prune to tree form, loses most leaves cold winters
Quercus agrifolia Kwer'kus ag-rif-o'lee-ya CALIFORNIA LIVE OAK	30-75'	60-80'	medium, spreading	mod, round crown	simple, alternate, toothed	catkins,	acorn, shallow cup		most, dry	takes sun, shade, don't water, susceptible to caterpillars, CA native, drops leaves in spring
Quercus ilex Kwer'kus eye'lex HOLLY OAK	40-50'	40-50'	deep	mod, round head	simple, alternate, toothed	catkins	acorn, deep cup		most	takes sun, wind, drought, can take heavy pruning, good lawn tree
Quercus suber Kwer'kus sue'ber CORK OAK	50-70'	50-70'	deep	slow, round head	simple, toothed	catkins	acorn		most, well drained	takes sun, some cold, drought, gets chlorosis in alkaline soil, corky bark (commercial cork)

<b>BROADLEAF EVERGREEN TREES</b>	<b>HEIGHT</b>	<b>SPREAD</b>	<b>ROOTS</b>	<b>GROWTH</b>	<b>LEAVES</b>	<b>FLOWERS</b>	<b>FRUIT</b>	<b>FALL COLOR</b>	<b>SOIL</b>	<b>REMARKS</b>
Rhus lancea Rooz lan-see'a AFRICAN SUMAC	to 25'	to 25'	shallow	slow, open spreading	opposite, compound, 3 leaflets		Yellow or red berries		most, drained	takes heat, drought, good lawn tree, berries on female tree are messy, can blow over if not thinned properly
Schinus molle* Sky'nus moll'e CALIFORNIA PEPPER TREE	20-40'	20-40'	shallow, invasive	rapid, wide spreading	alternate, compound, 60 leaflets	yellow panicles all year	rose colored berries		most	takes heat, shade, drought, poor drainage, frost damage, susceptible to scale, aphids, litters, roots lift pavement
Ulmus parvifolia Ull'mus par-vi-fo'li-a CHINESE ELM	40-60'	40-60'	shallow, but no problem	rapid, vase weeping	simple, alternate, toothed		brown, winged nut		most	takes sun, shade, poor soil, leaves drop in cold weather, resists elm leaf beetle, thin to prevent blow over, leaf breakage, flaky bark
Umbellularia californica Um-bell-yew-lay'ria Kal-i-for'n'i-ka CALIFORNIA LAUREL OREGON MYRTLE-BAY TREE	40-75'	30-50'	medium	slow, round crown	simple, alternate, entire	yellow clusters May-June	olive-shaped fruit		most, moist drained	takes sun, shade, cold, wind, drought, strong flavored leaves used for seasoning, CA native
<b>CONIFER TREES</b>	<b>HEIGHT</b>	<b>SPREAD</b>	<b>ROOTS</b>	<b>GROWTH</b>	<b>LEAVES</b>	<b>FLOWERS</b>	<b>FRUIT</b>	<b>FALL COLOR</b>	<b>SOIL</b>	<b>REMARKS</b>
Calocedrus decurrens Cal-o-see'drus dee-kerr'ens INCENSE CEDAR	50-90'	40-50'	deep, lateral	slow, dense pyramidal	dark green scales		red/brown cones		most, poor	takes sun, shade, heat, wind, drought, foliage is aromatic, aka Libocedrus, CA native, older trees more open, less attractive
Cedrus atlantica See'drus at-lan'tik-a ATLAS CEDAR	50-60'	30-40'	deep	slow, open pyramidal	blue-green needles		3" cones		most, drained	takes sun, wind, cold, good lawn tree, 'Glauca' silvery blue
Cedrus deodara See'drus dee-o-dar'a DEODAR CEDAR	50-95'	40-50'	deep	fast spreading pyramidal	light green needles		5" cones		most, drained	takes sun, wind, drought, some cold, good lawn tree, needs much space, top nods naturally
Cupressocyparis leylandi* Kew-press-o-sy'par-is ley-lan'di-eye LEYLAND CYPRESS	to 50'	to 30'	shallow, spreading	very rapid, pyramidal	gray-green scales		small, brown cones		most	becomes floppy, very susceptible to canker, no cure, short-lived (10-15 years), prone to blowing over
Cupressus glabra Kew-press'us glay'bra SMOOTH ARIZONA CYPRESS	20-40'	8-20'	shallow, fibrous, spreading	rapid, narrow pyramidal	blue-gray green scales		1" brown cones		poor, sandy	takes sun, wind, drought, somewhat susceptible to coryneum canker
Cupressus sempervirens Kew-press'us sem-per-vy'rens ITALIAN CYPRESS	20-60'	8-15'	deep	slow, narrow conical			cones to 1 1/2"		most, well drained	drought tolerant, good border tree, may get coryneum canker, no cure
Ginkgo biloba Ging'ko bil-o'ba MAIDENHAIR TREE	70-80'	50-60'	deep	slow, conical lacy	simple, alternate, entire, fan-shaped	20 years to bloom	plum-like	golden yellow	most, deep drained	takes sun, shade, cold, wind, smog, female flower & fruit odor offensive, plant male trees only, grafted equals male, no known insects or diseases

CONIFER TREES	HEIGHT	SPREAD	ROOTS	GROWTH	LEAVES	FLOWERS	FRUIT	FALL COLOR	SOIL	REMARKS
Metasequoia glyptostroboides Met-a-see-quoy'a glip-to-stro-boi'deez DAWN REDWOOD	TO 90'	TO 50'	deep	moderate, conical	needles, flat sprays		cones, winged seed	yellow, bronze	moist, drained	deciduous conifer, good lawn tree, propagate by rooting cuttings in moist sand in September, prehistoric tree rediscovered
Picea pungens Py'see-a pun'jens COLORADO SPRUCE	60-80'	40-50'	shallow	slow, pyramidal	bluish needles		4'' cones		most, drained	takes sun, shade, cold, susceptible to spider mites, variety 'Glauca' is blue
Pinus canariensis Py'nus kan-air-i-an'sis CANARY ISLAND PINE	60-80'	25-35'	deep	rapid, pyramidal	needles in 3's 9-12''		8'' cones		poor, sandy, drained,	takes sun, drought, needles freeze at 10° F, droops gracefully
Pinus contorta Py'nus kon-tort'a BEACH PINE	30-35'	20-25'	shallow	moderate, open crown	needles in 2's 1 ¼-2''		2'' cones		most, poor	takes sun, wind, cold, drought, needles twist, good small pine
Pinus coulteri Py'nus coal'ter-i COULTER-BIG CONE PINE	40-90'	30-60'	deep	moderate, open crown	needles in 3's, 5-10''		12'' cones		dry, poor	takes sun, wind, cold, drought, has edible nuts, heavy cones (5lbs) can cause injury
Pinus eldarica Py'nus el-da-rik'a MONDELL PINE	30-80'	20-40'	deep	fast, open top	gray-green needles in 2's		4'' cones		most, dry	takes sun, wind, drought, smog, good Christmas tree and erosion control, pyramidal in youth
Pinus halepensis Py'nus hal-ep-en'sis ALEPPO PINE	30-60'	20-30'	deep	rapid, open top	gray-green needles in 2's		4'' cones		most, dry	takes sun, wind, used for windbreak and erosion control
Pinus radiata* Py'nus ray-di-ay'ta MONTEREY PINE	40-80'	30-50'	shallow	rapid, pyramid	needles 3-6'' in 3's		grayish 5'' cones, persistent		any	not adapted to central valley, subject to bark beetles, often very short-lived here (12-20 years), CA native
Pinus nigra Py'nus ny'gray AUSTRIAN PINE	35-50'	25-40'	deep	moderate, wide, pyramid	green-black needles 3-6'' in 2's		3'' cones		any	takes adverse growing conditions, used for lawns, erosion control, windbreak
Pinus patula Py'nus pa-tu'la JELECOTE PINE	40-80'	deep	fast	slender, pyramid	needles to 12'' in 3's		4'' cones		most	takes sun, wind, graceful tree, slender needles hang straight down
Pinus pinea Py'nus py-ne'a ITALIAN STONE PINE	40-80'	40-50'	deep	moderate, flat top	needles 5-8'' in 2's		5'' cones		most sandy	takes sun, wind, drought, lawn or shade tree, becomes top heavy, can split or blow over
Pinus sylvestris Py'nus sil-vest'ris SCOTCH PINE	70-100'	40-70'	deep	moderate, droopy, pyramid	needles 1 ½ -3'' in 2's		2'' cones		poor, sandy	wind resistant, a good Christmas tree
Pinus thunbergiana Py'nus thun-ber'jee-an-a JAPANESE BLACK PINE	to 100'	to 70'	shallow	moderate, broad, conical	needles 3-4½ in 2's		3'' cones		any	hardy in most climates, excellent in planters

CONIFER TREES	HEIGHT	SPREAD	ROOTS	GROWTH	LEAVES	FLOWERS	FRUIT	FALL COLOR	SOIL	REMARKS
Pinus torreyana Py'nus to-ree'an-a TORREY PINE	40-60'	30-50'	deep	fast, round crown	gray-green needles 8-13" in 5's		6" cones		any	takes drought, prefers humidity, grows in most climates, don't prune (stubs die) edible seeds, CA native
Sequoia sempervirens See-kwoy'a sem-per-vy'rens COAST REDWOOD	Native-350' In garden 70'-90'	20-40'	shallow	rapid, narrow, conical	needles in flat sprays		1" cones in clusters		deep, moist	takes sun, some cold, needs moisture, gets chlorosis, old brown branches drop in summer, dieback from fungus disease if stressed
Sequoiadendron giganteum Se-kwoy'a-den-dron jy-gan-tee' um BIG TREE, GIANT SEQUOIA	to 325', less in garden	75-100'	deep	moderate, pyramid	yellow, green scales		3" cones		deep, drained	takes sun, cold, thick bark is insect and fire resistant, foliage is prickly, CA native, susceptible to canker causing top to die back, no cure, dieback from fungus diseases
Taxodium distichum Tax-o'di-um dis'ti-kum BALD CYPRESS	60-125'	30-75'	shallow	pyramid in youth, becoming broad	deciduous, feathery, foliage		1" cones		most, including extremely wet	Any soil, but alkaline, develops "knees" arising from roots in swampy areas