
Part III

Appendices

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Metric to English

To convert from	To	Multiply by
millimeters	sixteenths of an inch	0.6301
millimeters	eighths of an inch	0.3150
millimeters	fifths of an inch	0.1968
millimeters	fourths of an inch	0.1574
millimeters	thirds of an inch	0.1181
millimeters	halves of an inch	0.07874
millimeters	inches	0.03937
centimeters	inches	0.3937
meters	feet	3.281
number per hectoliter	number per bushel	0.3524
kilograms per hectoliter	pounds per bushel	0.777
grams per hectoliter	ounces per bushel	0.0124
number per kilogram	number per pound	0.4536
number per gram	number per pound	453.6
number per gram	number per ounce	28.35
number per square meter	number per square foot	0.0929
number per linear meter	number per linear foot	0.3048
degrees Centigrade (°C)	degrees Fahrenheit (EF)	$(1.8 H \text{ } ^\circ\text{C}) + 32$
hectares	acres	2.471

English to metric

To convert from	To	Multiply by
sixteenths of an inch	millimeters	1.587
eighths of an inch	millimeters	3.175
fifths of an inch	millimeters	5.080
fourths of an inch	millimeters	6.350
thirds of an inch	millimeters	8.467
halves of an inch	millimeters	12.70
inches	centimeters	2.540
feet	meters	0.3048
number per bushel	number per hectoliter	2.838
pounds per bushel	kilograms per hectoliter	1.287
ounces per bushel	grams per hectoliter	80.44
number per pound	number per kilogram	2.205
number per pound	number per gram	0.002205
number per ounce	number per gram	0.03527
number per square foot	number per square meter	10.76
number per linear foot	number per linear meter	3.281
degrees Fahrenheit (EF)	degrees Centigrade (°C)	$0.55 H \text{ } (^\circ\text{F} - 32)$
acres	hectares	0.4047

Glossary

abortive imperfectly or incompletely developed, as abortive seed.

abscission natural separation of leaves, flowers, and fruit from plants generally associated with deterioration of a specialized layer of thin-walled cells.

achene small, dry, indehiscent, 1-seeded fruit with seed attached to ovary wall at only 1 point as in *Cowanina* and *Eriogonum*; or pericarp fused with calyx tube and embryo, completely filling the ovarian cavity as in *Artemesia* and *Chrysothamnus*.

after-ripening biochemical or physical processes occurring in seeds, bulbs, tubers, and fruit after harvesting; often necessary for germination or resumption of growth.

agamospermy a type of apomixis in which seeds develop from female gametophyte tissue without fertilization as in *Amelanchier*, *Cotoneaster*, *Crataegus*, and *Rubus*.

aggregate fruit formed from a cluster of ripened ovaries of separate pistils of a single flower, as in *Maclura*, *Magnolia*, and *Rubus*. (Compare **multiple fruit** and **simple fruit**; *synonym* = **syncarp**).

allele an alternative form of a gene (at a given locus) differing in DNA sequence. If the array contains more than 2 genes, the genes are called multiple alleles. Multiple alleles arise by repeated mutations of a gene, each with different effects. No more than 2 alleles can be present in a given (diploid organism).

ament see **catkin**.

anatropous having an ovule inverted at an early stage of growth, so that the micropyle points toward the funicle, as in *Eriogonum*.

angiosperm member of the group of vascular flowering plants having seeds that develop in a carpellary ovary (compare **gymnosperm**).

anthesis 1. stage of full flower expansion. 2. bursting of pollen sacs with release of pollen.

apomixis any form of reproduction involving generative tissue, but without fertilization (compare **agamospermy**).

apophysis 1. an enlargement or swelling of the surface of an organ. 2. visible portion of a scale in a closed cone.

aril exterior covering of appendage of certain seeds that develops after fertilization as an outgrowth from the point of attachment of the ovule as in *Celastrus* and *Euonymus*.

asexual reproduction reproduction without fertilization; reproduction by purely vegetative means accomplished in woody plants usually by rooting stem cuttings, air-layering, grafting, or budding.

autogamy self-fertilization; pollination of a flower with its own pollen; may occur in *Kalmia*, for example.

berry fleshy indehiscent fruit developed from a single pistil and containing 1 or more seeds as in *Berberis*, *Diospyros*, and *Ribes*.

bisexual having functional male and female reproductive organs in the same flower (*synonym* = *complete flower*, *perfect flower*, *hermaphrodite*; compare **unisexual**).

bract 1. modified leaf subtending a flower or flower cluster. 2. modified leaf subtending a scale in female cones.

broadcast sowing scattering seed uniformly over an area (*synonym* = *broadcast seeding*).

browse 1. any woody vegetation consumed by livestock and wild animals, mainly ungulates. 2. the act of eating such material.

bur prickly or spiny casing around a fruit; the involucre in *Castanea* and *Fagus*.

calyx outermost whorl of floral parts (sepals).

capitulum an aggregation of small flower heads into an unusually dense terminal cluster as in *Gutierrezia*.

capsule dry, dehiscent, usually many-seeded fruit composed of two or more fused carpels as in *Kalmia*, *Koeleruteria*, and *Populus*.

carpel simple pistil or single member or a compound pistil.

carpellary pertaining to a carpel.

carpellate having carpels.

caruncle a fleshy protuberance at or surrounding the hilum of some seeds as in *Philadelphus*.

catkin spike of unisexual flowers or fruits with imbricated scaly bracts as in *Alnus* and *Betula*. (*synonym* = **ament**; (compare **strobile**).

cauliflory production of flowers and fruits directly on the trunk or branches of certain trees as in *Cercis*.

certified seed(s) seedlot attested by a designated certifying agency to be from trees of known identity and produced so as to assure that identity (compare **selected seeds** and **source-identified seeds**).

cline a continuous gradient of phenotype or genotype within a species range; usually associated with a gradient in an environmental factor over the range of the population.

clone 1. group of genetically identical plants produced by vegetatively propagating a single plant; 2. a cell line of a single-cell origin (compare **ortet**, **ramet**).

cold hardiness test a test that estimates physiological condition of a seedling by determining the minimum temperature to which the seedling can be exposed without suffering observable cold injury.

combining ability a statistical value indicating the capacity of a parent to transmit genetic superiority to its offspring.

complete flower see **bisexual**.

cone 1. the dry, woody strobilus of a gymnosperm. A **female cone** consists of a central axis supporting imbricated bracts each of which subtends a scale bearing naked (noncarpellate) seeds. A **male cone** consists of a central axis supporting spirally arranged microsporophylls each of which bears pollen sacs containing pollen grains (synonym= **strobilus**). 2. any seed-bearing structure having conical shape as in *Magnolia* and *Liriodendron*.

conelet immature female strobilus (cone) of gymnosperms, sometimes described as a flower.

coriaceous leather-like.

corolla inner set of floral leaves consisting of separate or fused petals that surround the carpels.

corymb a flat-topped floral cluster as in *Rhododendron* and *Kalmia*.

cotyledons modified leaves developed in the embryo of a seed. They may contain stored food for the initial growth of the seedling as in *Quercus* or they may become functional leaves after germination as in *Pinus*.

cryptogeal germination type of seed germination in which the seeds germinate on the surface of the soil, then the cotyledonary stalks elongate, pushing the hypocotyl, plumule, and radicle into the soil as in *Araucaria*. Compare **epigeal** and **hypogeal** germination.

cyme flower cluster having main and secondary axes each terminating in a single flower as in *Sambucus*, *Viburnum*, and *Sorbus*.

deciduous abscission at the end of the growing season, as deciduous leaves, or at certain stages of development, such as flower petals after fertilization of the ovules, or female cones after seeds are disseminated.

dehiscence splitting open at maturity to discharge contents, as a capsule discharging seeds or an anther discharging pollen (compare **anthesis**).

determinate flowering terminal flowers blooming slightly in advance of their nearest associates (compare **indeterminate flowering**).

dichogamy maturation of male and female organs on the same plant at different times, thus preventing self-pollination. If the staminate (male) flowers appear first, the plant is **protandrous**. If the pistillate (female) flowers appear first, the plant is **protogynous**. If both conditions can occur in a genus, it is said to be **heterodichogamous**, as in *Zuckia*.

dioecious having staminate (male) flowers and pistillate (female) flowers borne on different individual plants as in *Acer*, *Fraxinus*, and *Ilex* (compare **monoecious**).

diploid having 2 sets of chromosomes (2n), usually 1 set from each parent.

dormancy a physiological state in which a seed predisposed to germinate does not, even in the presence of favorable environmental conditions; also applies to comparable conditions in growth of all plant parts (compare **seedcoat dormancy**, **embryo dormancy**, **epicotyl dormancy**, and **double dormancy**).

double dormancy dormancy as a result of two or more primary factors, such as **embryo dormancy** and **seedcoat dormancy**.

drupe fleshy, usually 1-seeded, indehiscent fruit with seed enclosed in a hard, bony endocarp as in *Chionanthus*, *Cornus*, and *Prunus*.

elaiosome a fleshy appendage of oil-storing tissue around the hilum as in *Ulex*.

ecotype see **race**.

embryo dormancy dormancy maintained by agents or conditions within the mature seed. Compare **internal dormancy**.

endocarp inner layer of the pericarp; e.g., the hard, bony part of the fruit of *Prunus*.

endosperm triploid storage tissue surrounding the embryo in seeds of some angiosperms and consisting of thin-walled cells rich in carbohydrates. The comparable tissue in seeds of gymnosperms is haploid tissue called the **megagametophyte** (often called endosperm by mistake).

epicarp see **exocarp**.

epicotyl portion of the axis of a plant embryo or seedling stem between the cotyledons and the primary leaves. Compare **plumule**.

epicotyl dormancy a condition in which the radicle emerges and develops in the fall, but the epicotyl remains dormant or slightly emerges and becomes dormant again, then develops normally in the spring as in some species of *Aesculus* and *Quercus*.

epigeal type of seed germination in which the cotyledons are forced above the ground by elongation of the hypocotyl (compare **hypogeal** and **cryptogeal germination**).

exocarp outermost layer of pericarp; the skin on fleshy fruits as in *Cornus*, *Malus*, and *Prunus* (synonym = *epicarp*).

F₁ first filial generation of offspring from a cross between 2 parents.

F₂ second filial generation of offspring produced by intercrossing or selfing among the F₁ individuals.

fecundity the number of eggs, seeds, or offspring in the first stage of the life cycle produced by an individual.

female cone see **cone**, **strobilus**.

fertilization penetration of a pollen tube through the embryo sac into the ovule (egg cell), discharge of the male nucleus into the ovule, and union of the male nucleus with that of the ovule.

florocane second-year canes in *Rubus* that produce flowers (compare **primocane**).

follicle dry, dehiscent fruit, opening along one line of suture, as in the individual fruits of a *Magnolia* cone and the single fruits of *Zanthoxylum*.

fruit the seed-bearing unit of angiosperms developed after fertilization by a sperm cell from a pollen grain; it is the mature, ripened ovary and all of its associated protective covers, appendages, and supporting structures.

fruit wall outer layer of fruits in which pericarp is not distinguishable from the seedcoat as in the achenes of *Baccharis* (*synonym* = **pericarp**).

full seeds those filled with tissue having a normal appearance as distinguished from empty or partially empty seeds (compare **sound seeds**).

funiculus stalk of an ovule.

fusiform radicles spindle-shaped radicles formed in cryptogeal germination as in *Araucaria*.

gametophyte the haploid generation in organisms that alternate haploid (n) and diploid ($2n$) generations.

geitonogamy pollination of a flower by pollen from another flower on the same plant.

gene the smallest transmissible unit of genetic material consistently associated with a single primary genetic effect.

genetic diversity the genetic variability within a population or a species.

genetic gain average improvement among progeny over the mean for the parents with respect to the characteristics used in selecting the parents.

genome a complete haploid set of chromosomes as found in a gamete.

genotype 1. an individual's hereditary (genetic) constitution; it interacts with the environment to produce the phenotype. 2. Individual(s) characterized by a certain genetic constitution (compare **phenotype**).

geographic race a race native to a geographic area.

germination resumption of active growth in an embryo which results in its emergence from the seed and the development of structures essential to plant development.

germination percentage see **germinative capacity**.

germination, real percentage of sound seeds that germinate.

germinative capacity proportion of seeds that germinate normally during a period of time when germination is practically complete; usually expressed as a percentage (*synonym* = **germination percentage**).

germinative energy that proportion of germination that has occurred up to the time of peak germination, the time of maximum germination rate, or some other preselected point.

glabrous smooth; without hairs or other projections.

glaucous having a whitish or waxy coating that give a frosted appearance and tends to rub off.

globose approximately or completely spherical; globular.

gymnosperm members of the subdivision of plants having seeds not enclosed in an ovary (naked seeds) borne on the scales of a cone, on the megasporophylls of other types of strobile, or singly with arils as in *Torreya* and *Taxus*.

(compare **angiosperm**).

haploid having 1 complete set of chromosomes per cell.

hardwood cutting cuttings for vegetative propagation that are collected during the dormant period from last season's growth.

head densely packed cluster of stalkless flowers as in *Cornus*, *Baccharis*, and *Cephalanthus* (*synonym* = **capitulum**).

hermaphrodite see **bisexual**.

heterodichogamous see **dichogamy**.

heterozygous having 1 or more sets of unlike alleles, e.g., the dominant with the recessive gene. A heterozygote does not generally breed true and is known as a hybrid with respect to the genes in question (compare **homozygous**).

hilum scar on a seed marking the point of attachment to the ovary in angiosperms or to the megasporophyll of gymnosperms.

hip the ripened "false fruit" of *Rosa* species, consisting of a fleshy receptacle that contains many achenes.

homozygous having 1 or more sets of like alleles, e.g., both dominant (AA), or both recessive (aa). A homozygote breeds true when mated with the same genotype (compare **heterozygous**).

husk outside envelope of a fruit, especially if coarse, harsh, or rough as in the involucre of *Carya*.

hypanthium a cup-like receptacle usually derived from the fusion of floral parts as in *Purshia*.

hypocotyl that part of the embryonic axis which is between the cotyledons and the radicle. In seedlings, the juvenile stem which is between the cotyledons and the roots.

hypogeal type of seed germination in which the cotyledons remain below the ground while the epicotyl elongates as in *Juglans*, *Quercus*, and *Torreya*.

indehiscent refers to dry fruits that normally do not split open at maturity.

indeterminate flowering flowers that open progressively from the base of an inflorescence (compare **determinate flowering**).

inflorescence floral axis with its appendages; flower cluster.

integument(s) in angiosperms, the one or two layers of tissue, often fused, that enclose the nucellus of an ovule and that develop after fertilization into 1 or 2 seedcoats; in gymnosperms, a single layer of tissue that encloses the nucleus of an ovule. In *Pinus*, it develops after fertilization into 3 seedcoats, the outer one of which is usually not distinct in harvested seeds.

internal dormancy see **embryo dormancy**.

involucre 1 or more whorls of bracts situated below and close to a flower cluster; sometimes enclosing the carpels as in *Carya*, *Castanea*, and *Fagus*.

land race a population of plants, usually exotic, that has become adapted to a specific environment.

legume dry, dehiscent, 1-celled fruit that usually dehisces (splits) along 2 suture lines at maturity as in *Acacia*, *Gleditsia*, and *Lupinus* (*synonym* = pod).

loculicidal dehiscing lengthwise of a capsule so as to divide each loculus into 2 parts as in *Chimaphila*.

loculus (locule) the cell of a carpel in which the seed is located.

maceration a process for removing the soft, pulpy tissue from fleshy fruits.

male cone see **cone**.

megagametophyte the female gametophyte tissue in the seeds of gymnosperms; often mistakenly labeled as **endosperm**.

mesocarp middle layer of the pericarp; the pulp of drupes and berries.

micropyle minute opening in the integument of an ovule through which the pollen tube normally passes to reach the embryo sac; usually closed in the mature seed to form a superficial scar.

microsporangia in gymnosperms, the pollen sacs on the lower surface of the **microsporophyll**.

microsporophyll in gymnosperms, a scale in the male strobilus.

monoecious having functional staminate and pistillate flowers on the same plant (compare **dioecious**).

mucro a small, short abrupt tip of a scale as in *Cupressus*.

multiple fruit fruit formed from several flowers whose coalesced ripened ovaries are inserted on a common receptacle as in *Morus* and *Platanus*. (compare **aggregate fruit and simple fruit**).

nucellus mass of thin-walled cells that composes the central and main part of the body of an ovule and that contains the embryo sac and is surrounded by 1 or more integuments (compare **perisperm**).

nucleus the component of a cell that is made up chiefly of chromosomes.

nut dry, indehiscent, 1-seeded fruit with a woody or leathery pericarp, as in *Quercus*, or generally partially or wholly encased in an involucre or husk, as in *Carya* and *Corylus*.

nutlet small nut, often with accessory parts such as bracts or husks, as in *Betula* and *Fagus*.

obovoid inversely egg shaped; ovoid with the broad end toward the apex.

open pollination pollination in which a mixture of related and unrelated pollen is delivered by wind, insects, etc. and is usually not directly influenced by humans.

ortet original plant from which a vegetatively propagated clone has been derived (compare **ramet**).

outcrossing mating unrelated individuals.

ovary in angiosperms, the basal portion of a pistil that bears the ovules.

ovoid egg shaped with the broad end toward the point of attachment.

ovule egg-containing structure in seed plants that develops into a seed after fertilization.

panicle a branched flower cluster as in *Aesculus*, *Chionanthus*, and *Fraxinus*.

papilionaceous descriptive of flowers of many Fabaceae that have irregular corollas shaped like a butterfly as in *Colutea*.

pappus a tuft of delicate fibers or bristles that form a feathery appendage of an achene as in *Baccharis* and *Chrysothamnus*.

parthenogenesis reproduction from an unfertilized ovule; embryo may be either haploid or diploid. See **apomixis**.

parthenocarpy development of fruit without fertilization.

pedicel stalk of a single flower within a flower cluster.

peduncle stalk that bears a single flower or a flower cluster.

peltate a foliage characteristic in which the petiole of a leaf blade is attached to the lower surface instead of to the base.

perfect flower see **bisexual**.

perianth the envelope of a flower; calyx, corolla, or both.

pericarp wall of a ripened ovary that is homogeneous in some genera and in others is composed of three distinct layers: **exocarp**, **mesocarp**, and **endocarp** (*synonym* = **fruit wall**).

perigynous having stamens and petals arranged on the edge of a cup-like receptacle around the pistil as in *Heteromeles*.

perisperm nutritive tissue of a seed derived from the nucellus and deposited external to the embryo sac; diploid in contrast to **endosperm**, which is triploid.

phenology study of relations between climatic changes and periodic biological phenomena such as dormancy, growth, flowering, and fruiting of plants.

phenotype 1. the observed state, description, or degree of expression of a character or trait; 2. the product of the interaction of the genes of an organism with the environment.

pinna a leaflet on a pinnate leaf.

pinnate leaf a compound leaf bearing leaflets (pinnae) on opposite sides of the rachis.

pistil ovule-bearing organ of an angiosperm flower, composed of ovary, style, and stigma.

pistillate having pistils, but lacking functional stamens (compare **staminate**).

placenta the interior of the ovary where ovules are borne.

planting zone area of reasonably uniform growing conditions in which plants from 1 or more **seed sources** are well adapted.

plumule the stem apex of the seed embryo from which the primary plant shoot develops.

pollination deposition of pollen on the receptive part of the female flower or strobilus.

polyembryony the production of more than 1 embryo from 1 egg as in some *Acer*.

polygamo-dioecious species that are functionally dioecious, but have a few bisexual flowers on some of the male-flowering plants as well as on some of the female-flowering plants.

polygamo-monoecious species that are functionally monoecious, but have a few bisexual flowers on some individual plants that also bear unisexual flowers of both sexes.

polygamo-trioecious species that may exhibit dioecious, monoecious, and bisexual flowering habits as in *Ceratonia*.

polygamous bearing both bisexual and unisexual flowers on the same plant or on different plants of the same species; pertains to species having mostly bisexual flowers.

pome a fleshy fruit resulting from a compound ovary with seeds encased in a papery inner wall, as in *Crataegus* and *Malus*.

prechilling practice of exposing imbibed seeds to cool (5 to 10 °C) temperatures for a few days prior to germination [contraction of the correct phrase, **pre-germination chilling**]. Prechilling is the same as **stratification**, but the term is more commonly used in seed testing, whereas stratification is more commonly used in nursery operations.

primocane first-year canes in *Rubus* that are solely vegetative (compare **florocane**).

prophyll the first bud of an inflorescence in certain plants (see *Serenoa*).

propagule any part of a plant, such as bud, tuber, root, shoot, or spore, that may be used to propagate an individual or vegetatively.

protandrous see **dichogamy**.

protogynous see **dichogamy**.

provenance the original geographic source of seed.

pruinose having a frost-like “bloom” or powdery secretion as in *Berberis*.

pubescence covered with down or short fine hairs.

purity percentage of clean, intact seed, by weight in a seed lot.

pyrene individual seed of a drupe as in *Ilex*, *Prunus*, and *Rubus*.

pyriform pear-shaped.

race a population that exists within a species and exhibits general characteristics discontinuous and distinct from other populations (synonym = *ecotype*; compare **strain**, variety).

raceme an unbranched inflorescence with flowers on stalks of equal length arising from a main axis as in *Amelanchier* and *Prunus*.

rachis 1. the elongated axis of an inflorescence. 2. the axis of a compound leaf bearing leaflets.

radicle the root of a seed embryo from which the primary root develops.

ramet individual member of a **clone** vegetatively propagated from an **ortet**.

raphe external ridge on a seed developed from an inverted ovule formed by the part of the funiculus adnate to the ovule.

receptacle end of a flower stalk on which the floral organs are borne.

root growth potential test a test that estimates the physiological condition of seedlings by their ability to produce new roots when growing in an ideal environment.

roguing systematic removal of individuals not desired for perpetuation of a population.

samara dry, indehiscent, winged fruit; 1-seeded as in *Fraxinus* and *Ulmus*, or sometimes with 2 samaras fused together as in *Acer*.

scarification pregerminative disruption of seedcoats, usually by mechanical abrasion or by brief treatment in a strong acid, to increase their permeability to water and gases, or to lower their mechanical resistance.

seed matured ovule containing an embryo and nutritive tissue enclosed in layers of protective tissue (seedcoat).

seed certification guaranty of seed identity and quality by a recognized agency, usually evidenced by a certificate including such information as certification category, species and variety, year of collection, origin, purity, soundness, and germinative capacity. See also **certified seeds**, **selected seeds**, **source-identified seeds**.

seedcoat protective outer layer of a seed derived from the integuments of the ovule. When 2 coats are present, the thick, tough outer coat is the testa and the thin, delicate inner coat is the tegmen.

seedcoat dormancy dormancy as a result of seedcoat conditions: impermeability to water or gas exchange or mechanical restrictions.

seed zone a designated area having defined boundaries and altitudinal limits within which soil and climate are sufficiently uniform to indicate high probability for maintaining a relatively uniform genetic composition as determined by progeny-testing various seed sources.

seedlot a specified quantity of seeds having reasonably uniform quality. It may comprise seeds from a specific location or a single seed collection zone, all collected in the same year.

seed orchard a plantation of clones or seedlings from selected trees for early and abundant production of seed and to promote balanced, random mating.

seed-production area an existing stand that is usually upgraded and opened by removal of phenotypically undesirable trees and then cultured for early and abundant seed production.

seed source the locality where a seedlot was collected (compare **provenance**).

selected seed a seedlot derived from clearly defined and carefully chosen natural stands or plantations that conform to specified standards and have been approved and registered by a designated authority.

serotinous 1. flowering or fruiting late in the growing season. 2. pertaining to cones that remain closed on a tree for several months or years after maturity and are therefore late in dispersing seeds.

shrub perennial woody plant branching close to the ground and with no major central stem (compare **tree**).

simple fruit formed from a single ovary and sometimes including other flower parts; the most common type of fruit (compare **aggregate fruit** and **multiple fruit**).

softwood cuttings cuttings for vegetative propagation that are collected from soft, succulent new shoots that have just begun to harden; normally in the spring, but also at any time of the year in plants that have multiple flushes of shoot growth.

sound seeds seeds that contain in viable condition the tissues necessary for germination.

source-identified seed a seedlot attested by a designated authority as being derived from a defined **seed source**.

species category of taxonomic classification into which genera are subdivided, comprising a group of similar interbreeding individuals sharing a common morphology, physiology, and reproductive process.

spike elongated inflorescence with sessile flowers on a main axis as in *Amorpha* and in pistillate flowers of *Carya* and *Juglans*.

stamen pollen-bearing organ of a flower in angiosperms consisting of a filament and an anther.

staminate having pollen-bearing organs (stamens) but no pistils.

staminode a sterile or abortive stamen as seen in flowers of *Diospyros*.

steckling a plant propagule grown from rooting cuttings; a plantable rooted cutting.

stigma the part of the pistil, usually the tip, often sticky, which receives the pollen and on which the pollen germinates.

stone the hard, bony part of a drupe that consists of the seed within the hard endocarp, as in *Cornus* and *Prunus*.

strain a group of organisms related by common descent but different in some respect from the main body of the species.

stratification pregermination treatment to overcome dormancy in seeds and to promote rapid and uniform germination; accomplished by keeping seeds in cold, moist conditions for a specified time, sometimes with a preceding exposure to moisture at room temperature (See **prechilling**).

striate marked with parallel grooves, lines, or ridges.

strobile (*plural strobiles*) dry, conelike fruits that develop from pistillate catkins as in *Alnus* and *Betula*.

strobilus (*plural strobili*) conelike male or female fruiting bodies, composed of compact bracts or scales, of the conifers.

style neck of the pistil which connects the stigma with the ovary.

sub-shrub a shrub, usually small, the woody parts of which normally die back at least partially during winter.

suture the line of dehiscence on fruits that opens naturally to disperse seeds.

syncarp see **aggregate fruit**.

target seedling a seedling ideally suited to planting for a specific management objective on a particular site. Production of such seedlings is a major management goal in nurseries, and requires matching genetic characteristics, environmental factors of the intended planting site, and cultural practices in the nursery.

tegmen the inner seedcoat, usually thin and delicate.

testa the outer seedcoat, usually thick and tough.

tree a woody perennial plant, typically large, and with a well-defined central stem or stems with branches forming a more or less definite crown (compare **shrub**).

tree percent number of trees in a nursery bed at time of lifting expressed as a percentage of the number of viable seeds sown.

trichome an outgrowth of the epidermis, as a hair or scale, which is variable in shape, size, and function.

triploid having 3 times ($3n$) the haploid (n) number of chromosomes.

umbel a flat-topped inflorescence with flower stalks arising from a common point, as in *Rhamnus caroliniana*; frequently compound as in the paniculate umbels of *Aralia spinosa*.

unisexual individual flowers of 1 sex, either **staminate** or **pistillate** (compare **bisexual**).

unitegmic having only 1 integument as the ovules of the composite family.

utricle a bladderly, 1-seeded, usually indehiscent fruit, consisting of an achene surrounded by bracts, as in *Eurotia* and *Grayia*.

variety a category usually intermediate between species (or subspecies) and forma, given a Latin name preceded by "var." based on fewer correlated characters than are used to differentiate species or subspecies, and having a more restricted geographical occurrence.

viability the state of being capable of germination and subsequent growth and development of the seedling.

viscid fruits covered with sticky secretions as in *Ceanothus*.

List of Families and Genera

A

- Aceraceae—Maple family
Acer L.
 Agavaceae—Century-plant family
Yucca L.
 Anacardiaceae—Sumac family
Cotinus P. Mill.
Rhus L.
 Annonaceae—Custard-apple family
Asimina Adans.
 Aquifoliaceae—Holly family
Ilex L.
Nemopanthus Raf.
 Araliaceae—Ginseng family
Aralia L.
Kalopanax Miq.
 Araucariaceae—Araucaria family
Araucaria Juss.
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Ostrya Scop.
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 Caprifoliaceae—Honeysuckle family
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Symphoricarpos Duham.
Viburnum L.
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Casuarina Rumph. ex L.
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Celastrus L.
Euonymus L.
 Chenopodiaceae—Goosefoot family
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Krascheninnikovia Guldenstaedt
Sarcobatus Nees
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gray
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smallflower

sour-top

swamp

velvet-leaf

bluegum, *Eucalyptus*

bluehaw, *Viburnum*

bodark, *Maclura*

bog-myrtle, *Myrica/Morella*

bois-d'arc, *Maclura*

bongay, *Aesculus*

Boston ivy, *Parthenocissus*

bosú, *Zanthoxylum*

bottlebrush

California

dwarf

fetid

Georgia

Ohio

painted

red

scarlet

sweet

Texas

yellow

woolly

bowwood, *Maclura*

boxelder, *Acer*

boxthorn, *Lycium*

Brayley flindersia, *Flindersia*

Brazilian-pine, *Araucaria*

Brigham tea, *Ephedra*

Brisbane-box, *Lophostemon*

brittlebrush, *Encelia*

California

green

broad-leaved laurel, *Kalmia*

brushbox, *Lophostemon*

buckbrush, *Ceanothus*

buckbrush, *Symphoricarpos*

buckeye, *Aesculus*

big

buckthorn, *Frangula*

beechleaf

birchleaf

California

Carolina

glossy

Modoc

Nevada

obovate

obtuse

Pursh

red

Sierra

yellow

Yosemite

buckthorn, *Rhamnus*

alder

Chinese

common

Dahurian

European

Japanese

lanceleaf

redberry

sawleaf

sharp-tooth

Smith

buckthorn, *Sideroxylon*

woolly

buckwheat, *Eriogonum*

crisp-leaf

mat

parsnipflower

roundleaf

buckwheatbrush, *Eriogonum*

California

flat-top

Heerman

lace

Mojave

pretty

budsage, *Artemisia*

buffaloberry, *Shepherdia*

Canadian

roundleaf

russet

silver

thornless

bull bay, *Magnolia*

bullberry, *Shepherdia*

bullnut, *Carya*

bunchberry, *Cornus*

bunya-bunya, *Araucaria*

bunya-pine, *Araucaria*

Burma-cedar, *Toona*

Burmese rosewood, *Pterocarpus*

burning-bush, *Euonymus*

burrobush, *Ambrosia*

white

burweed, *Ambrosia*

bursage, *Ambrosia*

white

bursting-heart, *Euonymus*

bush rockspirea, *Holodiscus*

bush-anemone, *Carpenteria*

bushpoppy, *Dendromecon*

island

stiff

butternut, *Juglans*

buttonball-tree, *Platanus*

buttonbush, *Cephalanthus*

common

buttonwood, *Platanus*

C

calico-bush, *Kalmia*

California boxelder, *Acer*

California fan-palm, *Washingtonia*

California Washington-palm,

Washingtonia

California washingtonia,

Washingtonia

California-holly, *Heteromeles*

California-laurel, *Umbellularia*

California-nutmeg, *Torreya*

California-olive, *Umbellularia*

California-palm, *Washingtonia*

calmoun, *Kalmia*

candelabra tree, *Araucaria*

candleberry, *Myrica/Morella*

candleberry-myrtle, *Myrica/Morella*

candlenut-tree, *Aleurites*

canoe-cedar, *Thuja*

caragana, *Caragana*

carob, *Ceratonia*

Carolina silverbell, *Halesia*
carpenteria, *Carpenteria*
cascara, *Frangula*
cascara sagrada, *Frangula*
cassena, *Ilex*
castor-aralia, *Kalopanax*
casuarina, *Casuarina*
horsetail
longleaf
river-oak
catalpa, *Catalpa*
common
Haitian
hardy
northern
southern
western
catalpa-willow, *Chilopsis*
catawba, *Catalpa*
ceanothus, *Ceanothus*
bigpod
buckbrush
Calistoga
Catalina
deerbrush
desert
feltleaf
Fendler
hairy
hoaryleaf
Hooker
jimbrush
Monteray
redstem
Santa Barbara
snowbrush
trailing
varnish-leaf
wedgeleaf
whitethorn
cedar, *Cedrus*
Atlas
Cyprian
deodar
cedar of Lebanon, *Cedrus*
cedar-of-Gog, *Cupressus*
cercocarpus, *Cercocarpus*
birchleaf
curlleaf
mountain
chamisa, *Atriplex*
chaparral whitethorn, *Ceanothus*
chaste-tree, *Vitex*
chenn, *Catalpa*
cherry, *Prunus*
Bessey
bird

bitter
black
common choke
downy
European bird
evergreen
fire
hollyleaf
laurel
mahaleb
Manchu
mazzard
Nanking
narrowleaf
pie
pin
perfumed
Rocky Mountain
rum
sand
sour
St. Lucie
sweet
western sand
wild
wild black
wild red
chestnut, *Aesculus*
chestnut, *Castanea*
American
Chinese
European
Japanese
Spanish
Chilean-pine, *Araucaria*
Chinese arborvitae, *Platyclusus*
Chinese date, *Ziziphus*
Chinese tallowtree, *Triadica*
chittamwood, *Sideroxylon*
checkerberry, *Gaultheria*
cherriani, *Sapindus*
cherry-laurel, *Prunus*
Carolina
Chimaphila, *Chimaphila*
Japanese
China-tree, *Koelreuteria*
chinaberry, *Melia*
chinatree, *Melia*
chinquapin, *Chrysolepis*
bush
giant
golden
chittam, *Frangula*
chittamwood, *Sideroxylon*
chokeberry, *Aronia*
black
hybrid

purple
red
Christmas-berry, *Ilex*
Christ-thorn, *Ziziphus*
Christmasberry, *Heteromeles*
cigar-tree, *Catalpa*
cinnamon-bark clethra, *Clethra*
clematis, *Clematis*
Drummond
eastern
Italian
mountain
plume
purple
rock
western
clethra, *Clethra*
cinnamon-bark
Japanese
cliffrose, *Purshia*
cloudberry, *Rubus*
coastal sweetpepperbush, *Clethra*
coffeeberry, *Frangula*
coffeetree, *Frangula*
common gorse, *Ulex*
common moonseed, *Menispermum*
common seabuckthorn, *Hippophae*
common trumpet creeper, *Campsis*
comptie, *Zamia*
Cook-pine, *Araucaria*
coontie, *Zamia*
copaltree, *Ailanthus*
coralberry, *Symphoricarpos*
corkbush, *Euonymus*
cornelian-cherry, *Cornus*
cotoneaster, *Cotoneaster*
black
cranberry
darkseed
European
hedge
Peking
rock
rock spray
cotton-gum, *Nyssa*
cottonwood, *Populus*
Arizona
balsam
black
eastern
Fremont
lanceleaf
Maddougal
mountain
narrowleaf
plains
Rio Grande

river
smooth-bark
swamp
Texas
valley
Wislizenus
courbaril, *Hymenaea*
cowberry, *Vaccinium*
cowitch vine, *Campsis*
coyotebrush, *Baccharis*
cranberry, *Vaccinium*
American
large
mountain
small
cranberrybush, *Viburnum*
European
cape-myrtle, *Lagerstroemia*
cape-myrtle
Queen's
crapemyrtle, *Lagerstroemia*
creambush, *Holodiscus*
creambush rockspirea, *Holodiscus*
creeper, *Parthenocissus*
Japanese
Virginia
creeping snowberry, *Gaultheria*
creeping pearlberry, *Gaultheria*
creosotebush, *Larrea*
crocus, *Epigaea*
cryptomeria, *Cryptomeria*
Japanese
cuapinol, *Hymenaea*
cucumbertree, *Magnolia*
Cunningham beefwood, *Casuarina*
curlleaf mahogany, *Cercocarpus*
currant, *Ribes*
alpine
alpine prickly
American black
blood
buffalo
clove
flowering
golden
gooseberry
Hudson Bay
northern black
Oregon
prickly
red flowering
Sierra
slender golden
squaw
sticky
swamp black
wax

wild black
winter
custard-apple, *Asimina*
cypress, *Chamaecyparis*
false
Lawson
Sitka
yellow
cypress, *Cupressus*
Arizona
Arizona smooth
Baker
Cuyamaca
Gowen
Guadalupe
Himalayan
Italian
MacNab
Mediterranean
Mendocino
Mexican
Modoc
Monterey
Piute
pygmy
Santa Cruz
Sargent
Siskiyou
spreading Italian
tecate
cypress, *Taxodium*
common bald
gulf
red
tidewater red
white
yellow
D
Dake-momi, *Abies*
dalea, *Psoralea*
California
Fremont
Johnson
Mojave
Nevada
Saunders
Schott
damson, *Prunus*
date-plum, *Diospyros*
dawn-redwood, *Metasequoia*
deer brush, *Ceanothus*
deerbrush, *Cercocarpus*
desert catalpa, *Chilopsis*
desert ironwood, *Olneya*
desert mahogany, *Cercocarpus*
desert sweet, *Chamaebatiaria*

desert white-cedar, *Juniperus*
desert-fir, *Pseudotsuga*
desert-gum, *Eucalyptus*
desert-holly, *Atriplex*
desert-palm, *Washingtonia*
desert-sweet, *Chamaebatiaria*
desert-thorn, *Lycium*
Anderson
Arizona
Baja
Chinese
European
desert-willow, *Chilopsis*
desertbroom, *Baccharis*
devil's-walkingstick, *Aralia*
dock-mackie, *Viburnum*
dogberry, *Cornus*
doghobble, *Leucothoe*
dogwood, *Cornus*
American
alternate-leaf
bigleaf
bloodtwig
blue
bunchberry
California
common
cornelian-cherry
creek
flowering
giant
gray
Japanese
Japanese cornel
koussa
mountain
Pacific
pagoda
red-osier
roughleaf
roundleaf
roundleaved
silky
Tatarian
western
western flowering
double spruce, *Abies*
Douglas-fir, *Pseudotsuga*
bigcone
blue
coast
Colorado
green
inland
interior
Oregon
Rocky Mountain

Douglas-spruce, *Pseudotsuga*
drooping leucothoe, *Leucothoe*
dwarf cornel, *Cornus*
dwarf-elder, *Aralia*
dyebush, *Psoralea*
dyeweed, *Psoralea*

E

ear-leaf umbrellatree, *Magnolia*
earpod-tree, *Enterolobium*
eastern leatherwood, *Dirca*
eastern wahoo, *Euonymus*
ebony blackbead, *Ebenopsis*
eglantine, *Rosa*
Egyptian thorn, *Acacia*
elaeanthus, *Elaeanthus*
autumn
elder, *Sambucus*
American
blackberry
blue
blueberried
blueberry
common
red
redberried
scarlet
sweet
elderberry, *Sambucus*
blue
elm, *Ulmus*
American
basket
cedar
Chinese
cork
dwarf Asiatic
English
European white
field
grey
Japanese
lacebark
leatherleaf
red
rock
Russian
Scotch
Scots
September
Siberian
slippery
smoothleaf
soft
southern rock
spreading
water

winged
white
Wych
emajaguilla, *Thespesia*
empress tree, *Paulownia*
encelia, *Encelia*
rayless
Virgin River
encina, *Quercus*
encino, *Quercus*
ephedra, *Ephedra*
gray
green
Torrey
espino rubial, *Zanthoxylum*
eucalyptus, *Eucalyptus*
alpine-ash
beakpod
blackbutt
bluegum
brown-barrel
cuttail
dalrymple
delegate
desert
gray ironbark
lemon
lemon-gum
long-beak
manna
messmate stringybark
moitch
mountain-ash
mountain-gum
mulga ironbark
redironbark
ribbon
river redgum
robusta
rosegum
saligna
shining
Sidney bluegum
swamp-gum giant
tallowwood
Tasmanian blue
tooler
euonymus, *Euonymus*
brook
European
Maack
running
warty-bark
winged
winterberry
European bittersweet, *Solanum*

F

false indigo, *Amorpha*
false spirea, *Sorbaria*
Ural
falsewillow, *Baccharis*
Bigelow's
broombrush
Encinitis
Harvard's
prairie
saltwater
Santo Domingo
false-willow, *Chilopsis*
farkleberry, *Vaccinium*
fern-bush, *Chamaebatiaria*
fernbush, *Chamaebatiaria*
fetterbush, *Leucothoe*
fetterbush, *Pieris*
feverbush, *Lindera*
filbert, *Corylus*
American
beaked
California
common
European
fir, *Abies*
Abete delle Nebrodi
alamo de la sierra
Algerian
Algerian silver
alpine
amabilis
Amur
Ao-todomatsu
Aomori-todo-matsu
aotodo
akatodo
Arizona
balsam
blister
bristlecone
California red
California white
Cascades
Caucasian
Cephalonian
Chinese silver
Cilician
Colorado white
common silver
concolor
corkbark
Crimean
dake-momi
eastern
European silver
feather cone

flaky
Fraser
golden
grand
great silver
Grecian
Greek silver
Guatemalan
Hinggan
Japanese
Japanese silver
Khingan
Korean
linpi lengshan
lovely
Low silver
Low white
lowland white
magnificent
Manchurian
Maries
Mayr Sakhalin
Mexican silver
Min
Min-kiang
momi
Mt. Enos
needle
Nikko
Nikko-momi
noble
noble red
Nordmann
Oregon
oyamel
O-shirabiso
Pacific silver
Pacific white
Pindrow
piño real blanco
pitch silver
real blanco de la sierras
red
red bark
Rocky Mountain alpine
Rocky Mountain subalpine
Rocky Mountain white
sacred
sacred Mexican silver
Sakhalin
Santa Lucia
sapin concolore
sapin du Vancouver
sapin gracieux
sapin grandissime
Shasta
Shasta red

shirabe
shirabiso
Siberian
Siberian silver
Siberian white
Sicilian
Sierra white
silver
silvertip
Sino-Korean
southern balsam
Spanish
Spanish silver
subalpine
todo-matsu
Todomatsu
Turkey
urajiro-momi
Veitch
Veitch silver
west Himalayan
west Himalayan silver
western white
white
yellow-fruited
fir pine, *Abies*
firecracker plant, *Aesculus*
five-stamen tamarisk, *Tamarix*
flamboyant, Delonix
flametree, *Delonix*
flannelbush, *Fremontodendron*
California
Mexican
flooded-gum, *Eucalyptus*
Florida arrowroot, *Zamia*
Florida pinxter, Rhododendron
Florida-nutmeg, *Torreya*
flowering-ash, *Chionanthus*
flowering-willow, *Chilopsis*
fountain tree, *Spathodea*
fox grape, Vitis
Northern
foxberry, *Vaccinium*
fragrant false indigo, *Amorpha*
Franklin tree, Franklinia
franklinia, *Franklinia*
fremontia, Fremontodendron
California
eldorado
Mexican
French-mulberry, *Callicarpa*
fresno, *Fraxinus*
frijolito, *Sophora*
fringed sage, Artemisia
fringed spruce, *Abies*

G
gallberry, *Ilex*
garland-tree, *Malus*
gean, *Prunus*
Gharab-Palk-Saf-Saf, *Populus*
giant cactus, *Carnegiea*
giant sequoia, Sequoiadendron
giant-cedar, *Thuja*
ginkgo, Ginkgo
globe-flowers, *Cephalanthus*
goatnut, *Simmondsia*
gobnadora, *Larrea*
goddess-of-mercy-fir, *Cryptomeria*
gold-and-silver-flower, *Lonicera*
goldenchain tree, *Laburnum*
goldenhills, *Encelia*
gooseberry, Ribes
Appalachian
eastern prickly
Idaho
inland balck
Missouri
mountain
pasture
roundleaf
Sierra
swamp
white-stem
gordonia, *Gordonia*
grandfather-graybeard, *Chionanthus*
grape, *Vitis*
plum
swamp
gravel plant, *Epigaea*
gravel weed, *Epigaea*
Gray's saltbush, *Grayia*
graybeard, *Clematis*
grayia, *Grayia*
greasewood, *Larrea*
greasewood, *Sarcobatus*
ground hemlock, *Taxus*
ground-laurel, *Epigaea*
guamúchil, Pithecellobium
guanacaste, Enterolobium
Guelder rose, *Viburnum*
gueles noires, Aronia
gum arabic tree, Acacia
gum bumelia, Sideroxylon
gum elastic, *Sideroxylon*
H
hackberry, Celtis
common
netleaf
northern
sugar
western

hackmatack, *Larix*
hackmatack, *Populus*
hardhack, *Holodiscus*
hardhack, *Spiraea*
Harford tree-poppy, *Dendromecon*
haw, *Crataegus*
apple
blue
dwarf
green
parsley
red
summer
yellow
hawthorn, *Crataegus*
Allegheny
anomalous
apple
apple haw
apple-leaf
Arnold
barberry
beautiful
bigtree
black
blueberry
Brainerd
broadleaf
cerro
chocolate
cockspur
Columbia
common
dotted
Douglas
downy
English
English midland
English woodland
entangled
fanleaf
fireberry
flat-topped
fleshy
frosted
glossy
golden-fruit
green
Gregg
Harbison
Kansas
large-fruited
littlehip
longspine
may
mountain
one-flowered

oneseed
Ontario
parsley
pasture
pear
Pensacola
Piper
plumleaf
Reverchon
riverflat
roundleaf
sandhill
scarlet
shining
Siberian
single-seed
small-fruited
southern
succulent
sugar
summer
sunny
tall
Texas
thicket
three-flower
Tracy
Virginia
Washington
waxy-fruited
weeping
western black
willow
yellow
hazel, *Corylus*
American
beaked
California
European
he-balsam, *Picea*
hearts-a-busting, *Euonymus*
heavenly-bamboo, *Nandina*
hedge, *Maclura*
hediondilla, *Larrea*
hemlock, *Tsuga*
black
Canada
Carolina
eastern
mountain
Pacific
western
hemptree, *Vitex*
Hercules-club, *Aralia*
Hercules-club, *Zanthoxylum*
hickory, *Carya*
big shagbark

bigleaf shagbark
bitter water
bitternut
mockernut
nutmeg
pale
pallid
pignut
sand
scalybark
shagbark
shellbark
swamp
water
white
whiteheart
highbush-cranberry, *Viburnum*
highland doghobble, *Leucothoe*
hobblebush, *Viburnum*
hog-apple, *Crataegus*
hoghaw, *Crataegus*
hognut, *Carya*
holly, *Ilex*
American
deciduous
English
evergreen
mountain
swamp
white
holly-bay, *Gordonia*
hollywood, *Heteromeles*
honey-balls, *Cephalanthus*
honeylocust, *Gleditsia*
swamp
Texas
honeysuckle, *Lonicera*
Amur
Arizona
bearberry
Belle
blueleaf
California
chaparral
coral
coralline
dwarf
Etruscan
European
European fly
fly
grape
hairy
Italian
Japanese
limber
Manchurian

Morrow
mountain
mountain fly
orange
purple flower
southern
Standish
swamp fly
sweetberry
Tatarian
trumpet
twinberry
Utah
western white
whitebell
winter
woodbine
yellow
honeysuckle, *Rhododendron*
swamp
hoop-pine, *Araucaria*
hophornbeam, *Ostrya*
American
eastern
hopsage, *grayia*
hoptree, *Ptelea*
common
woolly common
hornbeam, *Carpinus*
American
European
heartleaf
Japanese
oriental
hornbeam, *Ostrya*
hornbrush, *Ceanothus*
horse-apple, *Maclura*
horsebean, *Parkinsonia*
horsebrush, *Tetradymia*
catclaw
common
cotton
cottonthorn
dune
four-part
gray
hairy
littleleaf
longspine
Mojave
Nuttall
shortspine
smooth
spiny
spineless
striped
thorny

threadleaf
horsebush, *Grayia*
horsechestnut, *Aesculus*
American
Himalayan
horsetail beefwood, *Casuarina*
huckleberry, *Gaylussacia*
black
highbush
huckleberry, *Vaccinium*
California
evergreen
shot
velvetleaf
huisache, *Acacia*

I
incense-cedar, *Calocedrus*
California
inciense, *Encelia*
Indian arrow-wood, *Holodiscus*
Indian arrow-wood, *Philadelphus*
Indian currant, *Symphoricarpos*
Indian lilac, *Melia*
Indian peach, *Oemleria*
Indian plum, *Oemleria*
Indian soap-plant, *Sapindas*
Indian-bean, *Catalpa*
Indian-walnut, *Aleurites*
indigobush, *Amorpha*
dwarf
indigobush, *Psorothamnus*
Mojave
inkberry, *Ilex*
inkberry, *Lonicera*
ironbark, *Eucalyptus*
ironwood, *Carpinus*
ironwood, *Casuarina*
ironwood, *Olneya*
ironwood, *Ostrya*
island myrtle, *Ceanothus*
islay, *Prunus*
Italian woodbine, *Lonicera*
ivy, *Kalmia*
ivy-bush, *Kalmia*

J
jaboncillo, *Sapindus*
jano, *Chilopsis*
Japanese cornelian-cherry, *Cornus*
Japanese snowdrop tree, *Styrax*
Japanese-cedar, *Cryptomeria*
Jersey-tea, *Ceanothus*
Jerusalem-thorn, *Parkinsonia*
jetbead, *Rhodotypos*
Jim brush, *Ceanothus*
jimbrush, *Ceanothus*

jojoba, *Simmondsia*
Joshua tree, *Yucca*
Jove's fruit, *Lindera*
Judas-tree, *Cercis*
juneberry, *Amelanchier*
jujube, *Ziziphus*
common
jumbie-bead, *Adenantha*
juneberry, *Amelanchier*
juniper, *Juniperus*
alligator
Ashe's
bigberry
California
checkered-bark
cherrystone
common
dwarf
Mexican
oneseed
Pinchot
prostrate
red
redberry
river
Rocky Mountain
Sierra
Utah
west Texas
western
jutaby, *Hymenaea*

K
kaki, *Diospyros*
keg fir, *Diospyros*
keminyan, *Styrax*
Kentucky coffeetree, *Gymnocladus*
Kew-tree, *Ginkgo*
kiawe, *Prosopis*
kingnut, *Carya*
kinnickinnick, *Arctostaphylos*
kinnikinnik, *Cornus*
Klinki-pine, *Araucaria*
koa, *Acacia*
koa haole, *Leucaena*
kochia, *Kochia*
forage
prostrate
kukui, *Aleurites*

L
Labrador-tea, *Ledum*
bog
marsh
western
laburnum, *Laburnum*
common

Scotch
Waterer
lacewood, *Grevillea*
lama, *Aleurites*
larch, *Larix*
 alpine
 American
Dahurian
 eastern
European
Japanese
 Montana
 mountain
 Russian
Siberian
subalpine
western
large-leaf cucumbertree, *Magnolia*
laurel, *Umbellularia*
laurel-leaves, *Kalmia*
laurel-sumac, *Rhus*
leadplant, *Amorpha*
leadtree, *Leucaena*
lemon-gum, *Eucalyptus*
lemonade berry, *Rhus*
lensscale, *Atriplex*
lentisco, *Rhus*
lespedeza, *Lespedeza*
 bicolor
 leafy
 shrub
 Thungerg
leucaena, *Leucaena*
leverwood, *Ostrya*
life-of-man, *Aralia*
lilac, *Syringa*
 Amur
 common
 late
 Manchurian
 Persian
 villous
lilac chastetree, *Vitex*
lily-of-the-valley tree, *Oxydendrum*
lime, *Tilia*
 American
 Caucasian
 large-leaved
 pendent white
 small-leaved
 weeping
linden, *Tilia*
 American
 bigleaf
 common
 Crimean
 European

European white
largeleaf
littleleaf
pendent silver
silver
lingonberry, *Vaccinium*
linpi lengshan, *Abies*
little prince's-pine, *Chimaphila*
Lobb fiddleleaf, *Nama*
loblolly-bay, *Gordonia*
locust, *Ceratonia*
locust, *Robinia*
 black
 bristly
 clammy
 Hartweg
 Holdt
 Kelsey
 Margarett
 mossy
 New Mexican
 Rusby
longleaf ironwood, *Casuarina*
lost camellia, *Franklinia*
lost gordonia, *Franklinia*
lumbang, *Aleurites*
lupine, *Lupinus*
 Inyo bush
 longleaf bush
 Pauma
 silver
 Sims bush
 whiteface

M
Madras thorn, *Pithecellobium*
madrone, *Arbutus*
madroño, *Arbutus*
maga, *Thespesia*
magnolia, *Magnolia*
 Ashe
 bigleaf
 cucumber
 ear-leaf(ed)
 evergreen
 Fraser
 greatleaf(ed)
 mountain
 Puerto Rico
 pyramid
 shining
 southern
 sweetbay
 umbrella
 yellow cucumber
mahala mat, *Ceanothus*
mahaleb, *Prunus*

mahogany, *Swietenia*
 bigleaf
 Honduras
 hybrid
 littleleaf
 Pacific coast
 West Indies
mahonia, *Mahonia*
 Chinese
 cluster
 Fremont
 Japanese
 leatherleaf
maibao, *Alnus*
maidenhair-tree, *Ginkgo*
mamane, *Sophora*
mangium, *Acacia*
manzanita, *Arctostaphylos*
 bigberry
 Eastwood
 greenleaf
 hoary
 Mexican
 pointleaf
 Pringle
 rosybract
maple, *Acer*
 Amur
 ashleaf
 bigleaf
 bigtooth
 broadleaf
 dwarf
 hard
 Japanese
 mountain
 Norway
 Oregon
 paperbark
 planetree
 red
 river
 rock
 Rocky Mountain
 Siberian
 silver
 soft
 striped
 sugar
 swamp
 sycamore
 vine
 maple-silkwood, *Flindersia*
matrimony vine, *Lycium*
 Chinese
may, *Crataegus*
mayday tree, *Prunus*

mayflower, *Epigaea*
mayhaw, *Crataegus*
eastern
rufous
western
meadow-fern, *Myrica/Morella*
meadowsweet, *Spiraea*
mescalbean, *Sophora*
mesquite, *Prosopis*
honey
mesquite
screwbean
velvet
milo, *Thespesia*
mimosa tree, *Albizia*
mock locust, *Amorpha*
mock orange, *Philadelphus*
desert
Lewis
little-leaf
littleleaf
wild
mock-orange, *Styrax*
mockernut, *Carya*
molecule model plant, *Eriogonum*
molly, *Kochia*
gray
green
Molucca-albizia, *Paraserianthes*
mom, *Abies*
monkey-puzzle, *Araucaria*
monkey-puzzle-tree, *Araucaria*
monkeypod, *Albizia*
monkeypod, *Pithecellobium*
monks' peppertree, *Vitex*
moosewood, *Acer*
moosewood, *Dirca*
moosewood, *Viburnum*
Moreton-Bay-pine, *Araucaria*
Mormon-tea, *Ephedra*
gray
green
Nevada
Torrey
mountain andromeda, *Pieris*
mountain balm, *Ceanothus*
mountain cedar, *Juniperus*
mountain fetterbush, *Pieris*
mountain ivy, *Kalmia*
mountain pieris, *Pieris*
mountain sweetpepperbush, *Clethra*
mountain whitethorn, *Ceanothus*
mountain-ash, *Sorbus*
American
California
European
Greene

large-fruited
Pacific
showy
Sitka mountain
small-fruited
western
mountain-ebony, *Bauhinia*
mountain-holly, *Nemopanthus*
mountain-laurel, *Kalmia*
mountain-mahogany, *Cercocarpus*
alderleaf
birchleaf
curlleaf
true
mountain-misery, *Chamaebatia*
San Diego
Sierran
mountain-pink, *Epigaea*
mountain-spray, *Holodiscus*
moxieplum, *Gaultheria*
mulberry, *Morus*
black
littleleaf
mountain
Persian
red
Russian
silkworm
Texas
white
musclewood, *Carpinus*
myrtlewood, *Umbellularia*

N

namboca, *Juglans*
nandina, *Nandina*
nangoon berry, *Rubus*
nannyberry, *Shepherdia*
nannyberry, *Viburnum*
nanten, *Nandina*
narra, *Pterocarpus*
narrow-leafed oleaster, *Elaeagnus*
Nevada joint-fir, *Ephedra*
New-Jersey-tea, *Ceanothus*
Nikko-momi, *Abies*
ninebark, *Physocarpus*
Amur
Atlantic
common
dwarf
mallow
mountain
Pacific
nogal, *Juglans*
nogal silvestre, *Juglans*
nogalito, *Juglans*
Nootka yellow-cypress,

Chamaecyparis
Norfolk-Island-pine, *Araucaria*
northern muscadine, *Vitis*
nuez, *Aleurites*
nuez de India, *Aleurites*
nuez encarcelada, *Carya*

O

O-shirabiso, *Abies*
oak, *Quercus*
Ajo
Arizona
Arizona white
barren
basket
bastard
bear
black
blackjack
blue
bluejack
bluff
bottomland red
Brewer
bur
California black
California blue
California live
California scrub
Californian white
canyon
canyon live
Catesby
cherrybark
chestnut
chinkapin
coast live
common red
cork
cow
Darlington
Durand
Durand white
durmast
eastern red
Elliot
Emory
English
European turkey
fork-leaf white
Gambel
Garry
goldcup
gray
highland live
Hill
huckleberry

interior live
iron
jack
Kellogg
laurel
live
maul
mossy-overcup
mossycup
mountain white
northern pin
northern red
Nuttall
Oregon
Oregon white
oriental
overcup
peach
pedunculate
pin
possum
post
quercitron
red
Red River
rock
rock chestnut
Rocky Mtn. white
sandjack
sawtooth
scarlet
Schneck
scrub
sessile
shin
shingle
shrub live
Shumard
Shumard red
Sierra live
smooth-bark
southern red
Spanish
spotted
stave
swamp
swamp chestnut
swamp post
swamp red
swamp Spanish
swamp white
swamp willow
tanbark
turbinella
turkey
Utah white
valley

valley white
Virginia live
water
water white
weeping
white
willow
yellow
yellow chestnut
yellow-bark
ocean-spray, *Holodiscus*
bush
creambush
gland
Ogeechee-lime, *Nyssa*
oilnut, *Ilex*
oilnut, *Juglans*
old-man's-beard, *Chionanthus*
old-man's-beard, *Clematis*
oleaster, *Elaeagnus*
olive, *Olea*
olneya, *Olneya*
opossum-wood, *Halesia*
orchidtree, *Bauhinia*
pink
Oregon grapeholly, *Mahonia*
Oregon larch, *Abies*
Oregon-cedar, *Chamaecyparis*
Oregon-grape, *Mahonia*
Beale
Cascades
Oregon-myrtle, *Umbellularia*
Oregon-tea tree, *Ceanothus*
oriental arborvitae, *Platyclusus*
Osage-orange, *Maclura*
osoberry, *Oemleria*
oyamel, *Abies*
P
Pacific madrone, *Arbutus*
padauk, *Pterocarpus*
Burma
India
palm, *Sabal*
cabbage
Puerto Rico hat
palmetto, *Sabal*
cabbage
dwarf
etonia
Mexican
Oaxaca
Puerto Rico
Rio Grande
scrub
Sonoran
palmilla, *Yucca*

palo blanco, *Celtis*
palo fierro, *Olneya*
palo rayo, *Parkinsonia*
palo verde, *Parkinsonia*
blue
yellow
panicled golden raintree,
Koelreuteria
paráiso, *Melia*
parana-pine, *Araucaria*
parasol-pine, *Sciadopitys*
Parish goldenbush, *Ericameria*
Parish goldenrod, *Ericameria*
Parish goldenweed, *Ericameria*
Parish heathgoldenrod, *Ericameria*
partridge pea, *Senna*
partridgeberry, *Mitchella*
paulownia, *Paulownia*
pawpaw, *Asimina*
common
dwarf
small-flower
small-fruited
paxaque, *Abies*
pea-tree, *Caragana*
peach, *Prunus*
common
peacock-pine, *Cryptomeria*
peacock-plume, *Paraserianthes*
peacock's plume, *Paraserianthes*
pear, *Pyrus*
Algerian
almond-leaf
birch-leaf
Callery
Caucasus
Chinese
Chinese pea
common
cultivated
elaeagnus-leaf
European
evergreen
Harbin
heart-leaf
India wild
Japanese
Japanese pea
Kansu
Korean pea
Mamor Mountain
Manchurian
Pashia
pea
perry
Regel
sand

snow
Syrian
Ussuri
wild European
willow-leaf
pecan, *Carya*
bitter
sweet
pecky cedar, *Calocedrus*
pegwood, *Cornus*
pencil cedar, *Calocedrus*
penstemon, *Penstemon*
Bridges
bush
crevice
Leonard
littlecup
moth
shrubby
sidehill
toadflax
pepperbark, *Zanthoxylum*
pepperidge, *Nyssa*
pepperwood, *Umbellularia*
peronias, *Adenanthera*
persimmon, *Diospyros*
black
common
eastern
Japanesse
Texas
petty morrel, *Aralia*
pignut, *Carya*
pinabete, *Abies*
pine, *Pinus*
Aleppo
Apache
Arizona
Arizona longleaf
Arizona ponderosa
Arizona yellow
Arkansas
Armand
arolla
Austrian
Balfour
Balkan
banksiana
bay
beach
Benguet
Bhutan
big-cone
bishop
black
blackjack
blue

Bolander
border limber
Bosnian
bottom white
bristlecone
bull
Calabrian
Canary
Canary Island
Caribbean
cedar
cembrian
Chiapas white
Chihuahua
chilgoza
Chir
cluster
coast
Coulter
Del Mar
Digger
dwarf mountain
dwarf Siberian
eastern white
European black
foxtail
Gerard
gray
graybark
Greek stone
hard
Heldreich
hickory
Himalayan
Honduras
Hudson Bay
Idaho white
Italian stone
jack
Japanese black
Japanese red
Japanese stone
Japanese white
Jeffrey
Jersey
Jerusalem
Khasi
knobcone
Korean
limber
loblolly
lodgepole
longleaf
longleaf Indian
longstraw
Macedonian
maritime

marsh
Merkus
Mexican weeping
Mexican white
Monterey
mountain
Muhgo
North Carolina
northern white
Norway
nut
oldfield
Pacific ponderosa
pinaster
piñon
pitch
pocosin
pond
prickle-cone
prickly
radiata
red
rock
Rocky Mountain lodgepole
Rocky Mountain ponderosa
Rocky Mountain white
sand
Santa Cruz Island
Scots
Scotch
scrub
shore
shortleaf
Siberian stone
Sierra Nevada lodgepole
silver
slash
soft white
Soledad
South Florida slash
southern
southern yellow
southwestern white
spruce
stone
sugar
swamp
Swiss mountain
Swiss stone
Table Mountain
tamarack
Tenasserim
Torrey
umbrella
Virginia
Washoe
whitebark

western white
western yellow
Weymouth
yellow
yellow slash
pinemat, *Ceanothus*
piño macho, *Zanthoxylum*
piño real, *Pinus*
piñon, *Pinus*
pinxter flower, *Rhododendron*
pinxterbloom, *Rhododendron*
piñyon, *Pinus*
Colorado
Mexican
Parry
singleleaf
two-needle
pipissewa, *Chimaphila*
little
striped
planetree, *Platanus*
American
California
oriental
plum, *Prunus*
Allegheny
American
beach
bullace
cherry
Chickasaw
damson
European
flowering
garden
goose
hog
hortulan
Klamath
marianna
Munson
myrobalan
Oklahoma
Pacific
Porter
red
sand
Sierra
western
wild yellow
wildgoose
poison elder, *Rhus*
poison-ivy, *Rhus*
poison-oak, *Rhus*
poison-sumac, *Rhus*
pondcypress, *Taxodium*
pondberry, *Lindera*

poor-man's-orchid, *Bauhinia*
popinac, *Leucaena*
poplar, *Liriodendron*
poplar, *Populus*
Andrews
balsam
black
California
downy
Euphrates
European black
Fremont
gray
Japanese
lanceleaf
laurel
narrowleaf
Petrowsky
plains
Rio Grande
Russian
Simon
swamp
tacamahac
western balsam
white
popple, *Populus*
Port-Orford-cedar, *Chamaecyparis*
portiatree, *Thespesia*
Portuguese-cedar, *Cupressus*
possumhaw, *Ilex*
possumhaw, *Viburnum*
powder-puff tree, *Albizia*
prairie shoestrings, *Amorpha*
prickly-ash, *Aralia*
prickly-ash, *Zanthoxylum*
common
northern
southern
pride-of-India, *Lagerstroemia*
pride-of-India, *Melia*
prince's-pine, *Chimaphila*
princess tree, *Paulownia*
privet, *Ligustrum*
California
Chinese
common
European
glossy
Japanese
prostrate summer cypress, *Kochia*
purple laurel, *Rhododendron*
Q
quailbush, *Atriplex*
quaking asp, *Populus*
Queensland-maple, *Flindersia*

quercitron, *Quercus*
quickthorn, *Crataegus*
quinceberry, *Cotoneaster*

R
rabbitbrush, *Chrysothamnus*
alkali
basin whitestem rubber
Douglas
green
green rubber
low
Mojave
mountain whitestem rubber
Parry
rubber
spearleaf
threadleaf rubber
willowleaf rubber
raintree, *Albizia*
raspberry, *Rubus*
black
blackcap
flowering
purple-flowering
red
real blanco de la sierras, *Abies*
red heat, *Acacia*
red-beech, *Flindersia*
red-gum, *Eucalyptus*
red-ironbark, *Eucalyptus*
red-willow, *Cornus*
redbay, *Persea*
redberry, *Rhamnus*
hollyleaf
island
spiny
redberry, *Shepherdia*
redbud, *Cercis*
Arizona
California
eastern
Mexican
Texas
western
redcedar, *Juniperus*
eastern
Rocky Mountain
southern
redcedar, *Thuja*
Pacific
western
redgum, *Liquidambar*
redroot, *Ceanothus*
redwood, *Sequoia*
California
coast

retama palo de ray, *Parkinsonia*

rhododendron, *Rhododendron*

Carolina

Catawba

Chapman

Cumberland

great laurel

Kamchatka

Lapland

Pacific

Piedmont

rosebay

west coast

rhodora, *Rhododendron*

ribbongum, *Eucalyptus*

roble, *Quercus*

roble de olor, *Catalpa*

roble negro, *Quercus*

rock cedar, *Juniperus*

rock-spirea, *Holodiscus*

romerillo, *Abies*

Rooseveltweed, *Baccharis*

rope-bark, *Dirca*

rope-vine, *Clematis*

rose, *Rosa*

baldhip

California

climbing

dog

dwarf

hedgerow

Japanese

meadow

memorial

multiflora

Nootka

prairie

prickly

rugosa

smooth

sweetbriar

wichura

Woods

rosebay, *Rhododendron*

California

Catawba

Lapland

mountain

rough menodora, *Menodora*

roundleaf cornel, *Cornus*

roundleaf juneberry, *Amelanchier*

rowan, *Sorbus*

rowan-tree, *Sorbus*

royal palm, *Roystonea*

Cuban

Florida

Puerto Rican

royal paulownia, *Paulownia*

royal poinciana, *Delonix*

running-fox, *Mitchella*

running-oak, *Chamaebatia*

Russian-olive, *Elaeagnus*

S

sabina, *Juniperus*

sacred-bamboo, *Nandina*

sage, *Salvia*

black

creeping

Dorr

purple

white

sagebrush, *Artemisia*

basin big

big

Bigelow

black

low

mountain big

old man

pygmy

rimrock

sand

scabland

silver

stiff

threetip

Vasey

Wyoming big

sago cycad, *Zamia*

saguaro, *Carnegiea*

Sakan, *Aleurites*

salal, *Gaultheria*

salmonberry, *Rubus*

saltbrush, *Grayia*

saltbush, *Atriplex*

allscale

Australian

basin

big

broadscale

Castle Valley

cattle

desert

falcate

fourwing

Gardner

mat

mound

Nuttall

shadscale

sickle

spiny

trailing

trident

saltbush, *Zuckia*

saltcedar, *Tamarix*

saman, *Albizia*

sandbur, *Ambrosia*

sandthorn, *Hippophae*

sapin concolore, *Abies*

sappgum, *Liquidambar*

sarsaparilla, *Aralia*

bristly

wild

sassafras, *Sassafras*

sau, *Paraserianthes*

savin, *Juniperus*

saw-palmetto, *Serenoa*

Scotch broom, *Cytisus*

screwbean, *Prosopis*

scrub-box, *Lophostemon*

seaside mahoe, *Thespesia*

Seminole-bread, *Zamia*

senna, *Senna*

armed

bladder

spiny

serviceberry, *Amelanchier*

Allegheny

Canadian

common

downy

Huron

Pacific

roundleaf

Saskatoon

western

thicket

shadblow, *Amelanchier*

thicket

shadbush, *Amelanchier*

shore

western

shagbark, *Carya*

she-balsam, *Abies*

she-oak, *Casuarina*

beach

gray

river

sheepberry, *Viburnum*

sheepfat, *Atriplex*

shellbark, *Carya*

big

bottom

shinglewood, *Thuja*

shirabe, *Abies*

shirabiso, *Abies*

shorebay, *Persea*

Siberian peashrub, *Caragana*

Sierra redwood, *Sequoiadendron*

silk-oak, *Grevillea*

silk-tassel, *Garrya*

ashy

canyon

dwarf

eggleaf

wavyleaf

Wright

silk-tree, *Albizia*

silkwood, *Flindersia*

silt-bush, *Zuckia*

silver pine, *Abies*

silver-oak, *Grevillea*

silver-top shining-gum, *Eucalyptus*

silverbell, *Halesia*

silverberry, *Elaeagnus*

silverberry, *Shepherdia*

silverling, *Baccharis*

siris, *Albizia*

white

skunkberry, *Lonicera*

skunkbush, *Rhus*

sloe, *Prunus*

Allegheny

small custard-apple, *Asimina*

smokebush, *Cotinus*

smokebush, *Psoralea*

Nevada

smoketree, *Cotinus*

American

common

European

smoketree, *Psoralea*

smooth gallberry, *Ilex*

snakeweed, *Gutierrezia*

broom

perennial

threadleaf

snow eriogonum, *Eriogonum*

snowbell, *Styrax*

American

bigleaf

drug

fragrant

Japanese

styrax

Texas

snowbell tree, *Styrax*

snowberry, *Symphoricarpos*

Columbia

common

garden

mountain

Parish

Utah

western

snowbush, *Ceanothus*

snowdrop-tree, *Halesia*

soapberry, *Sapindus*

soapberry, *Shepherdia*

soapolalillie, *Shepherdia*

soapweed, *Yucca*

sophora, *Sophora*

sorrel-tree, *Oxydendrum*

sour tupelo-gum, *Nyssa*

sour-bush, *Callicarpa*

sourberry, *Rhus*

sourgum, *Nyssa*

sourwood, *Oxydendrum*

southern nannyberry, *Viburnum*

sow-berry, *Callicarpa*

Spanish-bayonet, *Yucca*

Spanish-dagger, *Yucca*

Spanish-mulberry, *Callicarpa*

sparkleberry, *Vaccinium*

spicebush, *Lindera*

bog

common

Japanese

northern

southern

spikenard, *Aralia*

small

spindletree, *Euonymus*

European

warty

winged

spineless hopsage, *Zuckia*

spiny hopsage, *Grayia*

spiny-sage, *Grayia*

spirea, *Spiraea*

Alaska

Appalachian

Beauverd

birchleaf

Douglas

Virginia

spoonwood, *Kalmia*

spotted wintergreen, *Chimaphila*

spruce, *Picea*

Alaska

Alberta

black

Black Hills

blue

bog

Brewer

Canadian

cat

Chinese

coast

Colorado

Colorado blue

dragon

eastern

Engelmann

Ezo

Himalayan

Korea

Koyama

mountain

Norway

Porsild

red

Sakhalin

Serbian

Siberian

Sitka

skunk

swamp

tideland

weeping

west Himalayan

West Virginia

western

white

yeddo

yellow

yezo

squaw mat, *Ceanothus*

squaw plum, *Oemleria*

squaw-apple, *Peraphyllum*

squaw-carpenter, *Ceanothus*

squawberry, *Lycium*

squawbush, *Cornus*

St. John's bread, *Ceratonia*

stagbush, *Viburnum*

steeplebush, *Spiraea*

sticky-laurel, *Ceanothus*

stinking-cedar, *Torreya*

stinking-yew, *Torreya*

storax, *Styrax*

strawberry-bush, *Euonymus*

American

running

striped cottonthorn, *Tetradymia*

striped prince's-pine, *Chimaphila*

styraxtree, *Styrax*

sugarberry, *Celtis*

sugarbush, *Rhus*

sugi, *Cryptomeria*

sulfur wildbuckwheat, *Eriogonum*

sumac, *Rhus*

desert

dwarf

evergreen

false poison

fragrant

ill-scented

Kearney

lemon

lemonade
Mearns
mountain
prairie
scarlet
scrub
shining
small-leaf
smooth
staghorn
sugar
swamp
sweet-scented
tobacco
velvet
wing-rib
winged
summer cypress, *Kochia*
summersweet, *Clethra*
woolly
surai, *Cupressus*
swallow-thorn, *Hippophae*
swamp black-gum, *Nyssa*
swamp dewberry, *Rubus*
swamp-cedar, *Chamaecyparis*
swamp-laurel, *Magnolia*
swamp-mahogany, *Eucalyptus*
swampbay, *Persea*
swampbay persea, *Persea*
swamphaw, *Viburnum*
sweet gale, *Myrica/Morella*
sweet pepperbush, *Clethra*
Asiatic
coastal
mountain
sweet pignut, *Carya*
sweet-birch, *Ceanothus*
sweet-breath-of-spring, *Lonicera*
sweet-locust, *Gleditsia*
sweetbay, *Magnolia*
evergreen
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Figure 1—*Cercidium floridum*

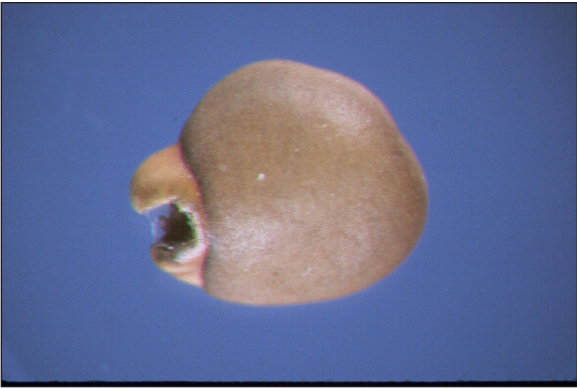


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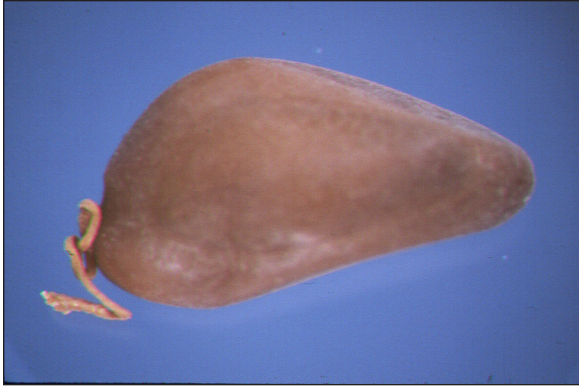


Figure 3—*Enterolobium contrisilignum*

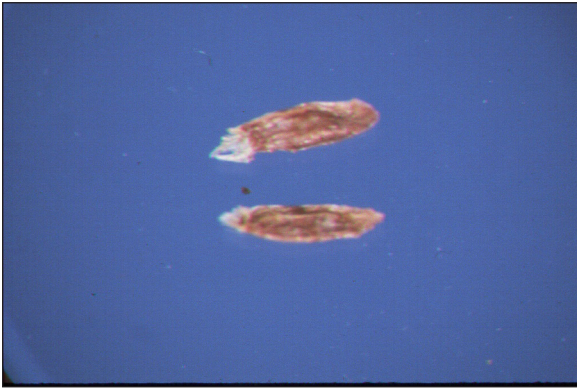


Figure 6—*Philadelphus microphylus*



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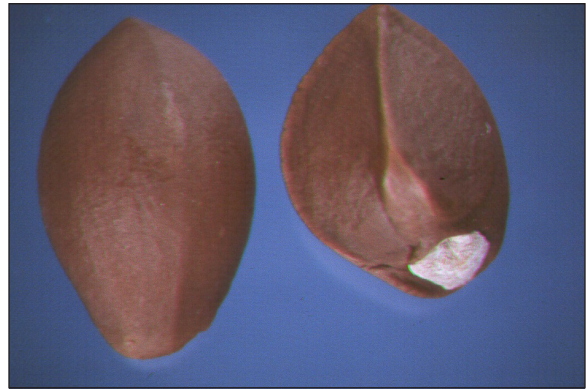


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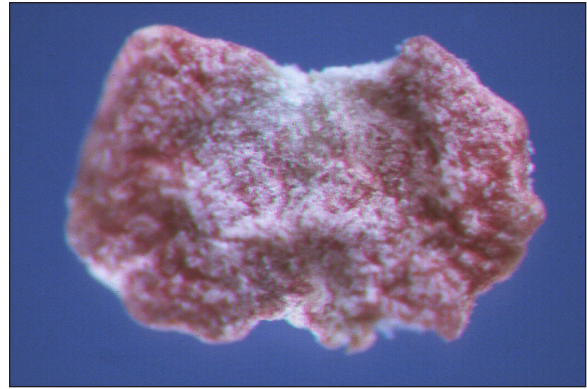


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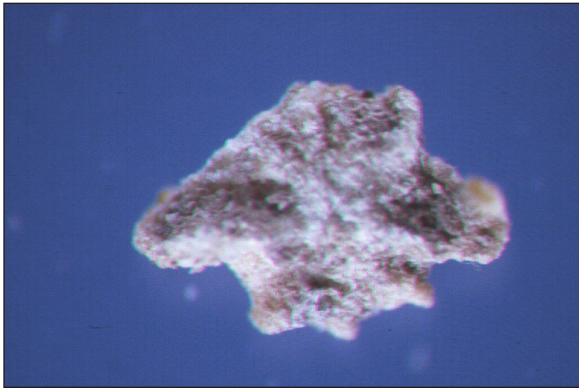


Figure 14—*Zuckia brandegii arizonica* bracted utricle

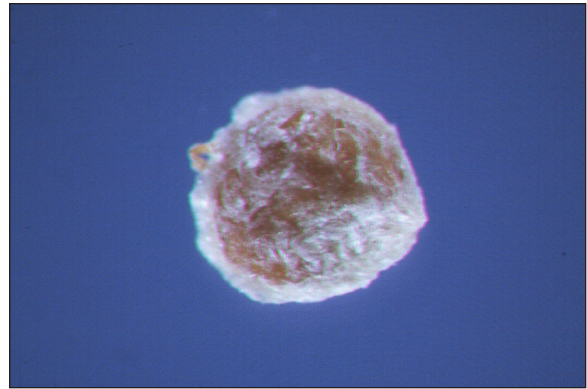


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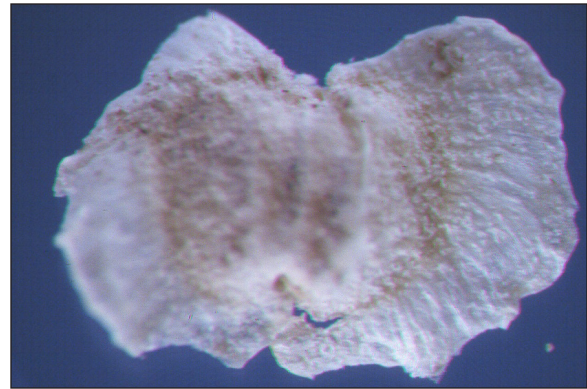


Figure 18—*Zuckia brandegii plummeri* bracted utricle

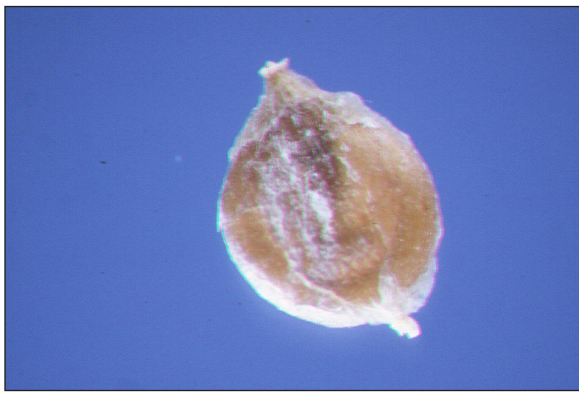


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Figure 23—*Quercus lineata*

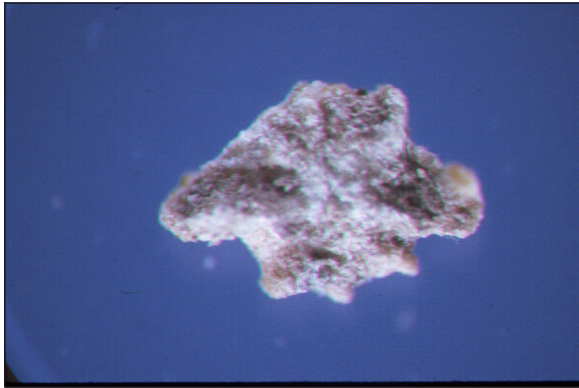


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Figure 24—*Quercus palustris*



Figure 21—*Quercus laceyi*



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