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# FLOWERING PLANT FAMILIES OF NORTHWESTERN CALIFORNIA: A TABULAR COMPARISON

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Scientific Name Common Name	Habit	Leaves	Sexuality · Floral Formula Fruit Type · Comments
<b>Aceraceae</b> Maple	TSV	SC:O	U-m [P] · K 4-5 C 4-5 A 4-10 G (2) Paired samaras · leaves often palmately lobed
<b>Acoraceae</b> Sweet Flag	H	S:A	U-m · P 3+3 A 6 or G (3) Berry · aquatic; aromatic rhizomes
<b>Aizoaceae</b> Ice Plant	HS	S:AO	B · P [3] 5 [8] A 0-∞ Gsi (2-5-∞) Capsule (berry-like) · fleshy; stamens divided, petaloid
<b>Alismataceae</b> Water-Plantain	H	S:B	U-m · K 3 C 3 A 6-∞ or G 6-∞ Achene · aquatics; milky sap
<b>Amaranthaceae</b> Pigweed or Goosefoot	HS	S:AO	B or U-m · K 4-5 [0] C 0 A 4-5 G (2-3) Utricle, pyxis, achene · often on saline or alkaline soils
<b>Anacardiaceae</b> Cashew or Poison-oak	SVT	SC:A	U-mp · K 5 C 5 A 5 or 10 G (3) Drupe · aromatic; resins can cause severe dermatitis
<b>Apocynaceae</b> · Dogbane or Milkweed			
Apocynoideae	HSV	S:OW	B · K (5) C (5) A 5 or (5) G 2 or (2) Follicles · milky sap
Asclepiadoideae	HSV	S:OW	B · K 5 or <u>5</u> C (5) A 5 G 2 Follicles · corona; carpels united above; milky sap
<b>Aponogetonaceae</b> Cape Pondweed	H	S:A	B · P 0-6 A 3+3 G 2-9 Follicles · aquatic; milky sap
<b>Aquifoliaceae</b> Holly	S	S:A	B · K 4 C 4 A 4 G (4) Berry, drupe · leaf margins toothed
<b>Araceae</b> Aroid or Philodendron	HS	SC:A	U-m · K 0 or 4-6 C 0 A 6 or G (2-3) Berry · spathe and spadix; calcium oxalate crystals

<b>Araliaceae</b> Ginseng	SH	SC:A	B · K 5 C 5 A 5 Gi (5) Berry · flowers in 1 or more umbels
<b>Aristolochiaceae</b> Birthwort	HV	S:A	B · K (3) C 0 A 6-36 G (4-6) Capsule · roots often aromatic
<b>Balsaminaceae</b> Touch-Me-Not	H	S:AOW	B · Kb 2+1 Cb 5 A 5 G (5) Capsule · lower sepal a nectar spur
<b>Berberidaceae</b> · Barberry			
Berberidoideae	S	SC:A	B · K 3+3 C 3+3 A 4-18 G (2-3) Berry · leaves generally spiny-margined
Podophylloideae	H	SC:A	B · K 4-x C 6-9 A 4-x G 1 Achene or capsule · leaves spineless
<b>Betulaceae</b> Birch	TS	S:A	U-m · K 0-4 C 0 A 2-20 or Gi (2) Nut, samara · catkins
<b>Bignoniaceae</b> Trumpet Creeper	TS	SC:O	B · K (5) Cb (5) A 2+2 or 2 G (2) Capsule; scroph-like flowers; seeds winged
<b>Boraginaceae</b> Borage	H	S:A	B · K 5 C (5) A 5 G (2) Nutlet, achene, drupe · curved cyme
<b>Buddlejaceae</b> Butterfly Bush	ST	S:O	U-d · K (4) C (4) A 4 or G (2) Capsule; flowers fragrant; seeds winged
<b>Cactaceae</b> Cactus	HS	S:A	B · $P_{\infty}$ A $\infty$ Gi (2- $\infty$ ) Berry · spiny succulents
<b>Callitrichaceae</b> Water Starwort	H	S:O	U-m · P 0 A 1 or G (2) Schizocarp · often submerged aquatics; leaves dimorphic
<b>Calycanthaceae</b> Sweet Shrub	S	S:O	B · P 15-40 A 5-30 G 5-35 Achene · aromatic; flowers solitary; receptacle bell-shaped
<b>Campanulaceae</b> · Bell Flower			
Campanuloideae	H	S:A	B · K 5 C (5) A 5 Gi (2, 3, 5) Capsule, berry · milky sap
Lobelioideae	H	S:A	B · K 5 Cb (5) A 5 Gi (2-3) Capsule · anthers united into tube
<b>Cannabaceae</b> Hemp	HV	S:AO	U-d · K 5 C 0 A 5 or G (2) Achene · plants aromatic; calyx persistent
<b>Caprifoliaceae</b> Honeysuckle	S	S:O	B · K 5 Crb (5) A 4-5 Gi (2-5 [8]) Berry, drupe, capsule · bracts sometimes conspicuous
<b>Caryophyllaceae</b> Carnation or Pink	H	S:O	B · K 5 or (5) C 5 [0] A 5-10 G (2-5) Capsule, utricle · free-central placentation

<b>Celastraceae</b> • Staff Tree				
Traditional	S	S:AO	B • K 3-5 C 3-5 A 3-5 G (2-5)	Capsule, nutlet • nectary disk
Parnassioideae	H	S:B	B • K 5 C 5 A 5 G (3-4)	Capsule • stamens alternate with 5 staminodes
<b>Ceratophyllaceae</b>	H	S:W	B • K (9-12) C 0 A 12-16 G 1	Achene • submerged aquatics; leaves in linear segments
Hornwort				
<b>Cistaceae</b>	SH	S:OA	B • K 5 C 5 A ∞ G (3-10)	Capsule • plants aromatic; stamens sensitive to touch
Rock-Rose				
<b>Cleomaceae</b>	S	C:A	B • K 4 Cb 4 A 8-32 G (2)	Capsule, berry • plants malodorous; ovary slightly stalked
Spider Flower				
<b>Commelinaceae</b>	H	S:A	B • K 3 C 3 A 6 G (3)	Capsule • succulent stems; hairy stamens
Spiderwort				
<b>Compositae</b>	HSV	SC:AO	B or U-mdp • K x C (5) or Cb (5) A 5 or A 0 Gi (2) or G 0	Achene • K reduced to bristles; involucrate heads
Sunflower or Daisy				
Tubular or disk flower			K x C (5) A 5 Gi (2) or G 0; at center of head	
Ligulate or ray flowers (Type 1)			K x Cb (5) A 0 Gi 0 or (2); at periphery of head	
Ligulate or ray flowers (Type 2)			K x Cb (5) A 5 Gi (2); only type present	
Bilabiate			K x Cb (5) A 5 GI (2); only type present	
Configuration of heads			Tubular only • tubular + ligulate-1 • ligulate-2 • bilabiate	
<b>Convolvulaceae</b> • Morning Glory				
Convolvuloideae	HV	S:A	B • K 5 C (5) A 5 G (2)	Capsule, berry, nut • ornamentals and weeds
Cuscutoideae	V	R:A	B • K 4-5 C (4-5) A 4-5 G (2)	Capsule • leafless parasites
<b>Cornaceae</b>	TSH	S:O	B • K 0-4 C 0-8 A 4-5, 10 Gi 1 (2)	Drupe • some with showy bracts below flowers
Dogwood				
<b>Crassulaceae</b>	HS	S:AO	B • K 4-5 C 4-5 A 8-10 G 3-5	Follicle • succulents; carpels fused at base or not
Stonecrop				
<b>Crossosomataceae</b>	S	S:A	B • K 4-5 C 4-5 A 6-10 G 3-6	Follicle • spiny shrubs; seeds arillate
Crossosoma				
<b>Cruciferae</b>	HS	S:A	B • K 4 C [b] 4 A 4+2 G (2)	Silique, silicle • characteristic mustard odor and taste
Mustard or Crucifer				
<b>Cucurbitaceae</b>	V	S:A	U-md • K 5 C (5) A 5 or Gi (3)	Pepo • coarse vines • plants often juicy
Squash or Gourd				
<b>Cyperaceae</b>	H	S:A	B • K x C 0 A 3 G (2-3)	Achene, nutlet • 3-sided stems; spikelets; K as bristles
Sedge				

<b>Datisceae</b> Durango Root	H	S:AOW	B · K 3-9 C 0 A 8-12 Gi (3-8) Capsule, open at apex · some flowers male
<b>Dipsacaceae</b> Teasel	H	S:O	B · K (5) Cb (4-5) A 4 Gi (2) Achene · inflorescence a terminal head
<b>Droseraceae</b> Sundew	H	S:B	B · K (5) C 5 A 5 G (2-5) Capsule · sticky leaves; insectivorous
<b>Ebenaceae</b> Persimmon	TS	S:A	U-m · K 3-7 C (3-7) A 3-x or G (2-16) Berry · female flowers often solitary
<b>Elaeagnaceae</b> Oleaster	TS	S:O	U-d · K (4) C 0 A 8 or G 1 Achene enclosed in fleshy hypanthium · plants spiny
<b>Elatinaceae</b> Waterwort	SH	S:O	B · K 3-5 C 3-5 A 3, 6, 8 G (3-5) Capsule · plants submerged or of wet sites
<b>Ericaceae</b> · Heath			
Ericoideae	ST	S:AOW	B · K 4-5 C (4-5) A 8-10 Gsi (4-5) Capsule, drupe, berry; leaves typically and evergreen
Monotropoideae	H	S:A	B · K 2-6 C 3-6 or (3-6) A 6-12 G (4-6) Capsule · achlorophyllous parasites
Pyroloideae	H	S:A	B · K 4-5 C 4-5 A 10 G (4-5) Capsule · leaves evergreen
<b>Escalloniaceae</b> Escallonia	S	S:A	B · K 5 C 5 A 5 Gi (2-5) Capsule · persistent calyx; escaped ornamental
<b>Euphorbiaceae</b> · Spurge			
Euphorbia type	HS	S:AOW	U-md · P 0 A 1 G 0 or P 0 A 0 G (3) Male and female flowers in cup-like involucre Capsule · sap milky or watery
Non-euphorbia	HSV	S:AO	U-md · K 0 or 5 C A 0 or 1-∞ G 0 or (3) Capsule · sap clear
<b>Fagaceae</b> Oak or Beech	TS	S:A	U-m · K 4-6 C 0 A 4-12 or Gi (3) Nut, partially enclosed in a scaly involucre · catkins
<b>Francoaceae</b> Honey Bush	S	C:A	B · Kb (5) Cb (5) A 2+2 G (4) Capsule · plants aromatic; escaped ornamental
<b>Frankeniaceae</b> Frankenia	H	S:O	B · K (4-7) C 4-7 A 6 G (3) Capsule · salt-secreting glands; leaves 4-ranked
<b>Garryaceae</b> Silk Tassel	S	S:O	U-d · K 2-4 C 0 A 4 or Gi (2-3) Berry · leaves often leathery; catkins
<b>Gentianaceae</b> Gentian	H	S:O	B · K (4) C (4-5) A 4-5 G (2) Capsule, berry · corolla lobes sometimes appendaged
<b>Geraniaceae</b> Geranium	H	SC:AO	B · K 5 C 5 A 10 G (5) Schizocarp, segments on curved stalks · glandular-hairy

<b>Gramineae</b> Grass	H[S]	S:A	B [U-md] · K 2-3 C 0 A 3 G (2-3) Caryopsis · spikelets; perianth much reduced
<b>Grossulariaceae</b> Gooseberry	S	S:A	B · K (4-5) C 5 A 5 Gi (2) Berry · nodal spines present or absent
<b>Guttiferae</b> St. John's Wort	HS	S:O	B · K 4-5 C 4-5 A ∞ G (3-5) Capsule · gland-dotted leaves
<b>Haloragaceae</b> Water Milfoil	H	S:O	U-m [B] · K 4-8 C 0 A 4+4 or Gi (2-4) Nut, drupe · aquatic; leaves highly dissected or entire
<b>Hippocastanaceae</b> Horse-Chestnut	TS	C:O	B · K (5) Cb (4-5) A 5-8 G (3) Leathery capsule · 5-7 palmate leaflets
<b>Hippuridaceae</b> Mare's-Tail	H	S:W	B [U-M] · P 0 A 1 Gi 1 Achene · rhizomatous aquatic
<b>Hydrangeaceae</b> Hydrangea	ST	S:O	B · K (4-10) C 4-5 A 4-12 or ∞ Gi (2-5) Capsule, berry · nectar disk
<b>Hydrocharitaceae</b> Water Weed	H	S:BAW	U-md · K 3 C 3 A 1- ∞ or Gi (2-x) Berry-like · rhizomatous aquatics; umbels
<b>Hydrocotylaceae</b> Marsh Pennywort	H	S:A	B · K 5 C 5 A 5 Gi (2) Schizocarp · wet sites; leaves peltate or not
<b>Hydrophyllaceae</b> Waterleaf	HS	S:AOB	B · K (5) C (5) A 5 G (2) Capsule · flowers in coiled cymes [solitary]
<b>Iridaceae</b> Iris	H	S:A	B · K 3 C 3 A 3 Gi (3) Capsule · leaves equitant
<b>Juglandaceae</b> Walnut	T	C:A	B · K 3-6 C 0 A 3-∞ Gi (2-3) Drupe, nut · catkins; aromatic
<b>Juncaceae</b> Rush	H	S:B	B · K 3 C 3 A 3 or 6 G (3) Capsule · starchy rhizomes; stems mostly underground
<b>Juncaginaceae</b> Arrow-Grass	H	S:A	B · K 3 C 3 A 6,4,1 G 3 or 6 Follicle, nut · wet sites; plants cyanogenic
<b>Labiatae</b> Mint	HS	S:OW	B · K (5) Cb (5) A 2 or 2+2 G (2) 4 nutlets · square stems; opposite leaves; plants aromatic
<b>Lauraceae</b> Laurel	TS	S:A	B [U-m] · P 3+3 A [3] 9 [12] G (3) Berry, drupe · aromatic

<b>Leguminosae</b> • Legume or Bean			
Caesalpinioideae	ST	C[S]:A	B • K 5 or (5) Cb 1+2+2 A 10 G 1 Legume • upper petal inside of 2 laterals
Faboideae	HSTV	C[S]:A	B • K (5) Cb 1+2+2 or (2) A <u>9</u> +1 G 1 Legume • upper petal outside of 2 laterals
Mimosoideae	ST	C:A	B • K (5) C 5 or (5) A 10-∞ G 1 Legume • flowers often in dense heads
<b>Lemnaceae</b> Duckweed	H	Leafless	U-m • P 0 A 1 or G 1 Utricle • small free-floating, undifferentiated aquatics
<b>Lentibulariaceae</b> Bladderwort	H	S:AB	B • Kb (2-5) Cb (5) A 2 G (2) Capsule • free-central placentation; insectivorous
<b>Liliaceae</b> * Lily	H	S:AB	B • K 3 or <u>3+3</u> C 3 A 6 [3] Gsi (3) Capsule, berry • many bulbous; perianth often petaloid
<b>Limnanthaceae</b> Meadow Foam	H	SC:A	B • K 3-5 C 3-5 A 6-10 G 3-5 Nutlet • vernal pools and seasonally wet sites
<b>Linaceae</b> Flax	H	S:AO	B • K 5 C 5 A 5 G (2-5) Capsule • plants typically glabrous
<b>Loasaceae</b> Loasa	HS	S:AB	B • K 5 C 5 A 5-∞ Gi (3-7) Capsule • needle-like stinging hairs
<b>Lythraceae</b> Loosestrife	H	S:O[AW]	B • K 4-6 [0] C 4-6 [0] A 8 or 12 G (2-6) Capsule • membranous hypanthium
<b>Malvaceae</b> Mallow or Cotton	HST	S:A	B • K (3-5) C 5 A 5-∞ G (2-∞) Capsule, schizocarp • mucilaginous sap; epicalyx
<b>Martyniaceae</b> Unicorn Plant	H	S:A	B • K (5) Cb (5) A 2+2 G (2) Woody capsule with curved horns • agricultural weed
<b>Menyanthaceae</b> Bog Bean	H	SC: A	B • K 5 C (5) A 5 G (2) Capsule • wet sites; leaves with 3 leaflets
<b>Molluginaceae</b> Carpet Weed	H	S:W	B • K 5 or <u>5</u> C 0 A [3] <u>4-5</u> [8] G (2-5) Capsule • calyx often persistent
<b>Montiaceae</b> Miner's-Lettuce	H	S:AO	B • K 2 C 2-19 A 1-∞ G (2-8) Capsule • fleshy leaves; basal or free-central placenta
<b>Moraceae</b> Mulberry	TS	S:A	U-md • K 4 C 0 A 4 or G (2) Achene, nut, drupe • catkins in <i>Morus</i> ; milky latex
<b>Myoporaceae</b> Myoporum	TS	S:A	B • K (5) C (5) A 2+2 G (2) Drupe • leaves glandular
<b>Myricaceae</b> Sweet Gale	TS	S:A	U-md • P 0 A 4 or G (2) Drupe • leaves gland-dotted, aromatic; catkins

<b>Myrtaceae</b> Myrtle	TS	S:O	B • <u>K 4-5 or (4-5) C 4-5 A-∞ Gi (2-3)</u> Capsule, berry • leaves gland-dotted, aromatic
<b>Nyctaginaceae</b> Four O'clock	HS	S:O	B • <u>K 5 C 0 A 5 G 1</u> Achene • flowers often with calyx-like involucre bracts
<b>Nymphaeaceae</b> Water-Lily	H	S:A	B • <u>K 4-6 C 8-∞ A ∞ G 5-∞</u> Berry-like • robust rhizomatous aquatics; milky sap
<b>Oleaceae</b> Olive	ST	SC:O	B [ <u>U-m</u> ] • <u>K 0-(4) C 0-(4) A 2 or 4 G (2)</u> Drupe, samara • nectar disk
<b>Onagraceae</b> Evening-Primrose	HS	S:AO	B • <u>K 4 C 4 A 4 or 8 Gi (4)</u> Capsule • flowers often opening at dawn or dusk
<b>Orchidaceae</b> Orchid	H	S:A	B • <u>K 3 Cb 2+1 A 1-2 Gi (3)</u> Capsule • flowers resupinate; corolla with spur or sac
<b>Oxalidaceae</b> Sorrel or Oxalis	H	C:B	B • <u>K 5 C 5 A 10 G 5</u> Explosively dehiscent capsule • bulbs, tubers; acrid sap
<b>Paeoniaceae</b> Paeony	H	SC:A	B • <u>K 5 C 5-10 A ∞ G 2-5</u> Follicle (woody at maturity) • sepals leathery
<b>Papaveraceae</b> • Poppy			
Fumarioideae	H	S:A	B • <u>K 2 Cb 2+2 A 4 or 6 G (2)</u> Capsule or nut-like • sap watery
Papaveroideae	HS	S:A	B • <u>K 2-3 C 2+2 or 3+3 or 8-12 A ∞ G (2-x)</u> Capsule • sap often colored
<b>Phytolaccaceae</b> Pokeweed	HS	S:A	B • <u>K 4-5 C 0 A 3-∞ G 1-(x)</u> Berry • fruits deeply pigmented
<b>Pittosporaceae</b> Parchment Bark	T	S:A	B • <u>K 5 C (5) A 5 G (2-5)</u> Capsule (woody) • plants often aromatic; leaves leathery
<b>Plantaginaceae</b> * Plantago or Plantain	H	S:B	B • <u>K (4) C (4) A 4 G (2)</u> Capsule • leaves basal, parallel-veined
<b>Platanaceae</b> Sycamore	T	S:A	<u>U-m</u> • <u>K 4 C 4 A 3-4 or G (6-9)</u> Achenes with bristles • peeling bark; flowers in heads
<b>Plumbaginaceae</b> Leadwort	HS	S:A	B • <u>K 5 C 5 A 5 G (5)</u> Utricle, capsule • plants of coastal dunes, marshes, cliffs
<b>Polemoniaceae</b> Phlox	H	SC:AO	B • <u>K (5) C (5) A 5 G (3)</u> Capsule • cymes or heads common; often malodorous
<b>Polygalaceae</b> Milkwort	HSV	S:A	B • <u>Kb 3+2 Cb 2+1 A 8 G (2)</u> Capsule • legume-like corolla



<b>Polygonaceae</b> • Smartweed				
Eriogonoideae	HS	S:AOW	B • K 3+3 C 0 A 3-9 G (3)	Achene • nodes not swollen; ochrea absent
Polygonoideae	HSV	S:A	B • K 4-6 C 0 A 5-8 G (3)	Achene • nodes generally swollen; ochreae present
<b>Pontederiaceae</b> Pickerel Weed	H	S:OW	B • K 3 C 3 A 6 G (3)	Capsule, nut • rhizomatous aquatics
<b>Portulacaceae</b> Purslane	H	S:AO	B • K 2 C 5 A 4-20 Gsi (3-8)	Capsule • free-central placentation • fleshy leaves
<b>Potamogetonaceae</b> Pondweed	H	S:AO	B • K 4 C 0 A 4 G 4	Drupelet • aquatic; plants submerged or leaves floating
<b>Primulaceae</b> Primrose	H	S:OBW	B • K 5 C (5) A 5 G (5)	Capsule, pyxis • free-central placentation
<b>Ranunculaceae</b> Buttercup	HSV	SC:A	B • K 3-x Crb 0-∞ A 5-∞ G ∞	Follicle, achene, berry • true K and C rarely present
<b>Resedaceae</b> Mignonette	HS	S:A	B • K 2-8 C 0-8 A 3-∞ G (2-7)	Capsule • stamens attached on one side of flower
<b>Rhamnaceae</b> Buckthorn	TS	S:A	B • K 4-5 C [0] 4-5 A 4-5 G (3)	Capsule, drupe • nectar disk
<b>Rosaceae</b> • Rose				
Dryadoideae	ST	S:A	B • K 5 C 5 [0] A 10-∞ G 1-∞	Achene • styles elongate, persistent
Rosoideae	HS	C[5]:A	B • K 5 C 5 A 10-∞ G 1-∞	Multiples of achenes or drupes • free hypanthium
Amygdaloideae	ST	S:A	B • K 5 C 5 A 10-∞ G 1-5	Achene, drupe, follicle, pome • adnate hypanthium
<b>Rubiaceae</b> Madder	HV	S:O[W]	B • K 4-5 [0] C (4-5) A 4-5 Gi (2)	Drupe, 2 or 4 nutlets, berry [capsule]
<b>Ruppiaceae</b> Ditch-Grass	H	S:AO	B • P 0 A 2 G 4	Nut-like drupe • submerged aquatics
<b>Rutaceae</b> Rue	STH	C:AO	B • K 4-5 C 4-5 A 8-10 G (4-5)	Samara, capsule • leaves punctate, strongly aromatic
<b>Salicaceae</b> Willow	TS	S:A	U-d • K 0-x C 0 A 2-x or G (2)	Capsule • seeds with basal tuft of hairs
<b>Santalaceae</b> • Sandalwood				
Bastard toadflax	H	S:A	B • K (3-6) C 0 A 3-6 Gi (3-5)	Drupe • root parasites
Mistletoes	S	S:O	B • K 2-4 C 0 A 2-4 Gi (3-4)	Berry, drupe • parasitic on branches

<b>Sarraceniaceae</b> Pitcher Plant	H	S:B	B · K 4-5 C 5 A x-∞ G (5-6) Capsule · tubular leaves; insectivorous
<b>Saururaceae</b> Lizard's-Tail	H	S:A	B · P 0 A 3-8 Gsi (3-4) Capsule · white involucral bracts; wet sites; aromatic
<b>Saxifragaceae</b> Saxifrage	H	S:AB	B · <u>K 5 C [0] 5 A [3] 5, 8, 10 G 2</u> Capsule · carpels united below
<b>Scheuchzeriaceae</b> Rannoch-Rush	H	S:B	B · P 3+3 A 3+3 G 3 Follicles (in heads) · bogs and lake margins
<b>Scrophulariaceae</b> · Scroph or Snapdragon *			
Orbanchoideae	H	S:A	B · K (2-5) Cb (5) A 2+2 G (2) Capsule · achlorophyllous parasites
Scrophularioideae	HS	S:AO	B · K (5) Cb (5) A [2] 2+2 [5] G (2) Capsule or berry · autotrophic
<b>Simaroubaceae</b> Quassia	TS	C:A	D · K (5-6) C 5-6 A 10-12 or G (4-5) Samara · malodorous when crushed
<b>Smilacaceae</b> Greenbriar	V	S:A	U-d · P 3+3 A 6 or G (3) Berry · umbels; stems often prickly, tendril-bearing
<b>Solanaceae</b> Nightshade or Potato	HSV	S:A	B · K (5) C (5) A 5 G (2) Berry, capsule · stamens often connivent
<b>Staphyleaceae</b> Bladdernut	TS	C:O	B · K 5 C 5 A 5 G (3) Capsule (inflated, 3-lobed, horned); leaflets generally 3
<b>Sterculiaceae</b> Cacao	TS	S:A	U-d · K 3-5 C O A 5, 5+5 or G (5) Capsule · stellate hairs; mucilaginous sap
<b>Styracaceae</b> Silverbell	S	S:A	B · K (5) C 5 A 10 Gi (3-5) Drupe · showy, pendent fragrant flowers
<b>Tamaricaceae</b> Salt-Cedar	ST	R:A	B · K (4-5) C 4-5 A 8-10 G (4-5) Capsule · leaves reduced, scale-like
<b>Tropaeolaceae</b> Nasturtium	H	S:A	B · Kb 5 Cb 5 A 8 G (3) Schizocarp · leaves peltate; K extended as nectar spur
<b>Typhaceae</b> · Cattail			
Sparganioideae	H	S:A	U-m · P [1] 3-4 [6] A 2-8 or G 1 Drupe-like · aquatics (often submerged)
Typhoidoideae	H	S:B	U-m · P 0 A 2-7 or G 1 Achene-like follicle · wet sites
<b>Umbelliferae</b> Umbel or Carrot	HS	C[S]:A	B · K 5 C 5 A 5 Gi (2) Schizocarp · aromatic; compound umbel
<b>Urticaceae</b> Nettle	HS	S:AO	U-md · K 4-5 C 0 A 4-5 or G 1 Achene, drupe · stinging hairs present or absent

<b>Valerianaceae</b> Valerian	H	S:OB	B · K 0-x Cb (5) A 1-4 Gi (3) Achene · some strongly-scented
<b>Verbenaceae</b> Vervain or Verbena	HS	S:O	B · K (5) Cb [r] (5) A 2+2 G (2) Nutlets (2 or 4) · square stems; opposite leaves; aromatic
<b>Violaceae</b> Violet	H	S:AB	B · K 5 Cb 5 A 4+1 G (3) Capsule · spurred lower petal
<b>Vitaceae</b> Grape	V	S:A	B [U] · K 4-5 C 4-5 A 4-5 G (2) Berry · tendrils opposite leaves
<b>Zosteraceae</b> Eel-Grass	H	S:A	U-md · P 0 A 1 or G 1 Achene · marine aquatics
<b>Zygophyllaceae</b> Caltrop	HS	C:O	B · K 5 C 5 A 10 G (5) Capsule or schizocarp · fruits with stout spines

\* Treated here in the traditional sense

## ABBREVIATIONS

### Growth forms:

H · herb  
S · shrub  
T · tree  
V · vine

### Leaves:

S · leaf blade simple  
C · leaf blade compound  
A · alternate  
O · opposite  
W · whorled  
B · basal  
R · reduced or vestigial

### Sexuality:

B · bisexual flowers  
U-m · unisexual flowers, species monoecious  
U-d · unisexual flowers, species dioecious  
U-p · unisexual flowers, species polygamous

### Floral formula:

K · calyx - radial symmetry  
K 4 · calyx of four sepals  
Kb · calyx - bilateral symmetry  
C · corolla - radial symmetry  
C 3-5 · corolla of 3 to 5 separate petals  
C (3-5) · corolla of 3 to 5 united petals  
C 3 + 2 · corolla of 5 petals, in 2 sets  
Cb · corolla - bilateral symmetry  
Crb · corolla - radial or bilateral symmetry  
A · androecium  
G · gynoecium, ovary superior  
Gi · ovary inferior  
Gsi · ovary superior or inferior  
Gs-i · ovary half-inferior  
P · perianth (K and C not well differentiated)  
x · few  
( ) · component parts united  
\_ · united at base or by filaments in stamens  
K C A · series united to form a hypanthium