# KEY BY FLOWER COLOR <br> PLANT ID KEY (TO FAMILY AND SOMETIMES SPECIES) FOR ARCHES NATIONAL PARK 

Key © Alicia Lafever

## GYMNOSPERMS - EVERGREEN TREES

1. Leaves opposite or in whorls, evergreen scale-like leaves Cupressaceae (Cypress)
2. Leaves spirally arranged, needles in groups of 2 - Pinaceae (Pine)

## GYMNOSPERMS - EVERGREEN SHRUBS

1. Leaves are reduced to small triangular teeth at joints, green jointed stems, shrublike - Ephedraceae (Jointfir)

## DECIDUOUS TREES

## Green flowers

1. Flowers borne in catkins, 0 petals, $0-4$ sepals
A. flowers greenish, yellow; 0 petals, 0-4 sepals; Male (staminate) flowers and female (pistillate) flowers on the same tree. Staminate flowers have 0-4 sepals, pistillate flowers have no sepals; leaves alternate and simple Betulaceae (Birch)
B. flowers with 0 petals, 4 sepals; Male (staminate) flowers and female (pistillate) flowers on the same tree; leaves alternate and simple Moraceae (Mulberry) - Morus alba
C. flowers with 0 petals, 4 sepals; Male (staminate) flowers and female (pistillate) flowers on different trees; leaves alternate and simple Moraceae (Mulberry) - Morus rubra
D. flowers greenish, yellow; 0 petals, 0 sepals; Male (staminate) flowers and female (pistillate) flowers on separate; leaves alternate and simple Salicaeae (Willow)
2. Flowers with 0 petals, $2-8$ sepals
A. flowers with 0 petals, 4-5 greenish yellow sepals; leaves opposite and compound - Aceraceae (Maple)
B. flowers with 0 petals, borne in axillary clusters, yellow or yellow-green sepals (generally 4); leaves alternate and simple - Elaeagnaceae (Oleaster)
C. flowers with 0 petals, shrublike, 2 to 8 greenish, yellow sepals; leaves alternate and simple - Fagaceae (Beech)
D. flowers with 0 petals, 4 yellow to whitish lobed sepals; leaves opposite and
```
compound - Oleaceae (Olive)
```

E. flowers with 0 petals; 4-8 green sepals; flowers borne in clusters; leaves alternate and simple - Ulmaceae (EIm)

## White, Cream flowers

1. Flowers with 0 petals, 4 sepals
A. flowers with 0 petals, 4 yellow to whitish lobed sepals; leaves opposite and simple - Oleaceae (Olive)
2. Flowers with 5 petals, 5 sepals
A. flowers with 5 united white petals, 5 united sepals; leaves opposite and simple - Bignoniaceae (Catalpa)
B. flowers with 5 white or pale pink petals, 5 sepals; leaves alternate and compound - Fabaceae (Pea) - Robinia pseudoacacia
C. flowers white to lavender or pink, flowers borne in elongated clusters, leaves scale-like, alternate - Tamaricaceae (Tamarisk)

## Yellow flowers

1. Flowers with 0 petals, $2-8$ sepals
A. flowers with 0 petals, $4-5$ greenish yellow sepals; leaves opposite and compound - Aceraceae (Maple)
B. flowers with 0 petals, borne in axillary clusters, yellow or yellow-green sepals (generally 4); leaves alternate and simple - Elaeagnaceae (Oleaster)
C. flowers with 0 petals, shrublike, 2 to 8 greenish, yellow sepals; leaves alternate and simple - Fagaceae (Beech)
D. flowers with 0 petals, 4 yellow to whitish lobed sepals; leaves opposite and simple - Oleaceae (Olive)

## Pink flowers

1. Flowers with 5 petals, 5 sepals
A. flowers with 5 white or pale pink petals, 5 sepals; leaves alternate and compound - Fabaceae (Pea) - Robinia pseudoacacia
B. flowers white to lavender or pink and fragrant, flowers borne in elongated clusters, leaves scale-like, alternate - Tamaricaceae (Tamarisk)

## Purple, Lavender flowers

1. Flowers with 5 petals, 5 sepals
A. flowers white to lavender or pink, flowers borne in elongated clusters, leaves scale-like, alternate - Tamaricaceae (Tamarisk)

## SHRUBS

## Green flowers

1. Flowers appear to be a single flower, but are composed of several flowers; flowers can be yellow, white, purple, pink or greenish; leaves alternate
and simple - Asteraceae (Sunflower)
2. Flowers with 0 petals
A. flowers with 0 petals; 2-5 small green, yellow, or brown sepals; leaves bluish, alternate and simple -Chenopodiaceae (Goosefoot)
B. flowers with 0 petals; 2 to 8 greenish, yellow sepals; leaves alternate and simple - Fagaceae (Beech)
C. flowers with 0 petals; 2-5 sepals; staminate and pistillate flowers; plants parasitic on branches of trees and shrubs; without chlorophyll; fragilejointed with swollen jointed nodes; leaves leathery (often scale-like), opposite and simple - Viscaceae (Mistletoe)
3. Flowers with 4-5 petals, 4-5 sepals -
A. flowers with 4 or 5 whitish green petals, distinct, or absent; 4 or 5 united sepals; flowers grow in clusters in the angle between the leaf and the stem; leaves alternate and simple; 3-8 feet tall - Rhamnaceae (Buckthorn) Rhamnus betulifolia

## Brown flowers

1. Flowers with 0 petals
A. flowers with 0 petals; 2-5 small green, yellow, or brown sepals; leaves bluish, alternate and simple -Chenopodiaceae (Goosefoot)
B. flowers with 0 petals; 4 yellowish, brownish sepals; leaves alternate and simple - Rosaceae (Rose) - Cercocarpus
2. Flowers with 4-5 petals, 4-5 sepals -
A. flowers with 4 or 5 whitish green petals, distinct, or absent; 4 or 5 united sepals; flowers grow in clusters in the angle between the leaf and the stem; leaves alternate and simple; 3-8 feet tall - Rhamnaceae

## White, Cream flowers

1. Flowers appear to be a single flower, but are composed of several flowers; flowers can be yellow, white, purple, pink or greenish; leaves alternate and simple - Asteraceae (Sunflower)
2. Flowers with 0 petals
A. flowers with 0 petals; 2-5 small green, yellow, or brown sepals; leaves, branches, and fruits covered with dense long white hairs; leaves bluish, alternate and simple -Chenopodiaceae (Goosefoot) - Ceratoides lanata
B. flowers with 0 petals; 3 to 6 petaloid whitish sepals; leaves alternate and simple - Polygonaceae (Buckwheat)- Eriogonum bicolor (leaves basal/alternate, simple; flowers white to pink or rose); Eriogonum corymbosum (leaves alternate/basal, simple; flowers white, suffused with pink, red, or yellow); Eriogonum leptocladon (leaves alternate and simple, flowers yellow or white often suffused with pink); Eriogonum microthecum (leaves alternate and simple, flowers white or suffused with pink)
3. Flowers with 4 petals, 4 sepals
A. flowers with 4 distinct small white petals in terminal cymes; 4 very small sepals; leaves opposite and simple; not commonly seen. - Cornaceae (Dogwood) - Cornus sericea var. sericea
B. Flowers with 4 white clawed petals, 4 sepals; leaves opposite and simple Saxifragaceae (Saxifrage) - Fendlera rupicola
4. Flowers with 4-5 petals, 4-5 sepals -
A. flowers with 4 or 5 whitish green petals, distinct, or absent; 4 or 5 united sepals; flowers grow in clusters in the angle between the leaf and the stem; leaves alternate and simple; 3-8 feet tall - Rhamnaceae
(Buckthorn) Rhamnus betulifolia
B. Flowers with 5 (4) white petals often smaller than the sepals, 5 sepals, mostly petaloid; leaves alternate and simple - Saxifragaceae (Saxifrage) - Ribes inerme
5. Flowers with 5 petals, 5 sepals
A. flowers with 5 white, cream, yellow, or pink petals; 5 sepals; leaves alternate and simple - Rosaceae (Rose) - Amelanchier, Holodiscus, Petrophytum, Physocarpos, Purshia
B. flowers with 5 pink (rarely white) petals, sepals 5; leaves alternate and compound - Rosaceae (Rose) - Rosa woodsii

## Yellow flowers

1. Flowers appear to be a single flower, but are composed of several flowers; flowers can be yellow, white, purple, pink or greenish; leaves alternate and simple - Asteraceae (Sunflower)
2. Flowers with 0 petals
A. flowers with 0 petals; 2-5 small green, yellow, or brown sepals; leaves bluish, alternate and simple -Chenopodiaceae (Goosefoot)
B. flowers with 0 petals; 4 yellowish, brownish sepals; leaves alternate and simple - Rosaceae (Rose) - Cercocarpus
C. flowers with 0 petals, 4 yellow sepals; leaves opposite and simple Rosaceae (Rose)- Coleogyne ramosissima
D. flowers yellow with 0 petals, 5 sepals; leaves alternate and compound Fabaceae (Pea) - Parryella filifolia
E. flowers with 0 petals; 2 to 8 greenish, yellow sepals; leaves alternate and simple - Fagaceae (Beech)
F. flowers with 0 petals; 3 to 6 petaloid whitish sepals; leaves alternate and simple - Polygonaceae (Buckwheat)- Eriogonum corymbosum (leaves alternate/basal, simple), Eriogonum leptocladon
G. flowers with 0 petals; 2-5 sepals; staminate and pistillate flowers; plants parasitic on branches of trees and shrubs; without chlorophyll; fragilejointed with swollen jointed nodes; leaves leathery (often scale-like), opposite and simple - Viscaceae (Mistletoe)
3. Flowers with 5 petals, 5 sepals
A. flowers with 5 yellow petals; 5 sepals; leaves alternate and simple Anacardiaceae (Cashew) - some Rhus aromatica
B. flowers with 5 yellow petals, 5 sepals; leaves alternate and compound Anacardiaceae (Cashew) - Rhus glabra, some Rhus aromatica, and Toxicodendron rydbergii - rarely simple
C. flowers with 5 white, cream, yellow, or pink petals; 5 sepals; leaves alternate and simple - Rosaceae (Rose) - Amelanchier, Holodiscus, Petrophytum, Physocarpos, Purshia
4. Flowers with 6 petals
A. Flowers with 6 yellow petals, usually 6 sepals; leaves alternate and compound - Berberidaceae (Barberry)

## Pink flowers

1. Flowers with 0 petals, $3-6$ sepals
A. flowers with 0 petals; 3-6 petaloid sepals; Polygonaceae (Buckwheat) Eriogonum bicolor (shrub; leaves basal/alternate, simple; flowers white to pink or rose); Eriogonum corymbosum: shrubs or subshrubs; flowers white, suffused with pink, red, or yellow; leaves alternate/basal, simple; Eriogonum leptocladon: shrubs, leaves cauline, simple, woolly leaves; flowers yellow or white often suffused with pink; Eriogonum microthecum: shrubs, woolly leaves; leaves alternate and simple; flowers white or suffused with pink
2. Flowers with 5 petals, 5 sepals -
A. Flowers with 5 united petals; 5 small sepals; flowers tubular and flare open at the mouth; flowers solitary or in pairs; leaves oval, opposite and simple Caprifoliaceae (Honeysuckle)
B. flowers with 5 white, cream, yellow, or pink petals; 5 sepals; leaves alternate and simple - Rosaceae (Rose) - Amelanchier, Holodiscus, Petrophytum, Physocarpos, Purshia
C. flowers with 5 pink (rarely white) petals, sepals 5 ; leaves alternate and compound - Rosaceae (Rose) - Rosa woodsii

## Purple, Lavender flowers

1. Flowers with 5 petals, 5 sepals
A. 5 purple petals; 5 sepals; leaves narrow, opposite and simple -

Lamiaceae (Mint) - Poliomintha incana

## Red flowers

1. Flowers with 0 petals, $3-6$ sepals
A. flowers with 0 petals; 3 to 6 petaloid whitish sepals; leaves alternate/basal and simple - Polygonaceae (Buckwheat)- Eriogonum corymbosum

## SUBSHRUB

## Green flowers

1. Flower with 0 petals
A. flowers with 0 petals; 2-5 small green, yellow, or brown sepals; leaves bluish, alternate and simple -Chenopodiaceae (Goosefoot)
2. Flowers with 4 petals
A. flowers with 4 lobed funnelform greenish-yellow petals, 4-8 lobed sepals, minute or lacking; leaves whorled and simple - Rubiaceae (Madder) Galium multiflorum

## Brown flowers

1. Flowers with 0 petals
A. flowers with 0 petals; 2-5 small green, yellow, or brown sepals; leaves bluish, alternate and simple -Chenopodiaceae (Goosefoot)
B. flowers with 0 petals; 3 to 6 petaloid brownish-whitish sepals; leaves alternate and simple - Polygonaceae (Buckwheat)- Eriogonum jonesii

## White, Cream flowers

1. Flowers with 0 petals
A. flowers with 0 petals; 3 to 6 petaloid sepals - Polygonaceae
(Buckwheat)- Eriogonum jonesii (leaves alternate, simple; brownishwhitish sepals); Eriogonum corymbosum: shrubs or subshrubs; flowers white, suffused with pink, red, or yellow; leaves alternate/basal, simple; Eriogonum ovalifolium (flowers white, cream, yellow or suffused with pink, red, or purple; woolly leaves; leaves basal and simple)
2. Flowers with 5 petals, 5 sepals
A. flowers with 5 white to cream petals, 5 sepals; leaves opposite and simple

- Polemoniaceae (Phlox) - Leptodactylon watsonii


## Yellow flowers

1. flowers appear to be a single flower, but is composed of several flowers; ray flowers yellow or lacking; leaves alternate and simple - Asteraceae
(Sunflower) - some Gutierrezia, some Haplopappus, some Perityle, some Xlyorhiza
2. Flowers with 0 petals, 3-6 sepals
A. flowers with 0 petals; 2-5 small green, yellow, or brown sepals; leaves bluish, alternate and simple-Chenopodiaceae (Goosefoot)
B. flowers with 0 petals; 3 to 6 petaloid sepals;- Polygonaceae
(Buckwheat)- Eriogonum corymbosum (shrubs or subshrubs; flowers white, suffused with pink, red, or yellow; leaves alternate/basal, simple); Eriogonum ovalifolium (flowers white, cream, yellow or suffused with pink, red, or purple; woolly leaves; leaves basal and simple)
3. Flowers with 3 petals, 5 sepals
A. flowers with 3 distinct petals, (the upper 2 pink or pink purple petals usually free, the lower one forming a yellow keel and often fringed, the petals are usually joined to the stamens; 5 distinct sepals, the 2 inner ones larger and often petaloid (the 3 outer sepals are usually green and the other inner ones are petal-like), flowers in racemes, several-flowered; milky stems; thorny; leaves alternate and simple - Polygalaceae (Milkwort) Polygala subspinosa
4. Flowers with 4 petals
A. flowers with 4 lobed funnelform greenish-yellow petals, 4-8 lobed sepals, minute or lacking; leaves whorled and simple - Rubiaceae (Madder) Galium multiflorum

## Pink flowers

1. Flowers with 0 petals, 3-6 sepals
A. flowers with 0 petals; 3 to 6 petaloid sepals;- Polygonaceae
(Buckwheat)- Eriogonum corymbosum (shrubs or subshrubs; flowers white, suffused with pink, red, or yellow; leaves alternate/basal, simple); Eriogonum ovalifolium (flowers white, cream, yellow or suffused with pink, red, or purple; woolly leaves; leaves basal and simple)
2. Flowers with 3 petals, 5 sepals
A. flowers with 3 distinct petals, (the upper 2 pink or pink purple petals usually free, the lower one forming a yellow keel and often fringed, the petals are usually joined to the stamens; 5 distinct sepals, the 2 inner ones larger and often petaloid (the 3 outer sepals are usually green and the other inner ones are petal-like), flowers in racemes, several-flowered; milky stems; thorny; leaves alternate and simple - Polygalaceae (Milkwort) - Polygala subspinosa
3. Flowers with 5 petals, 5 sepals
A. flowers with 5 small typically pink, tubular united petals, 5 sepals; leaves appear clustered; leaves alternate and simple - Boraginaceae (Borage): Tiquilia

## Purple, Lavender flowers

1. Flowers with 0 petals, $3-6$ sepals
A. flowers with 0 petals; 3 to 6 petaloid sepals; flowers white, cream, yellow or suffused with pink, red, or purple; woolly leaves; leaves basal and simple - Polygonaceae (Buckwheat)- Eriogonum ovalifolium
2. Flowers with 3 petals, 5 sepals
A. flowers with 3 distinct petals, (the upper 2 pink or pink purple petals usually free, the lower one forming a yellow keel and often fringed, the petals are usually joined to the stamens; 5 distinct sepals, the 2 inner ones larger and often petaloid (the 3 outer sepals are usually green and the other inner ones are petal-like), flowers in racemes, several-flowered; milky stems; thorny; leaves alternate and simple - Polygalaceae (Milkwort) - Polygala subspinosa

## Red flowers

1. Flowers with 0 petals, $3-6$ sepals
A. flowers with 0 petals; 3 to 6 petaloid sepals;- Polygonaceae
(Buckwheat)- Eriogonum corymbosum (shrubs or subshrubs; flowers white, suffused with pink, red, or yellow; leaves alternate/basal, simple); Eriogonum ovalifolium (flowers white, cream, yellow or suffused with pink, red, or purple; woolly leaves; leaves basal and simple)

## CACTUS

1. flowers with numerous petals; showy; red, pink, purple, or yellow; sepals and stamen; petaloid sepals; no leaves; spines - Cactaceae (Cactus)

## SPOROPHYTES (Spore-bearing)

1. Stems typically hollow, jointed, ribbed longitudinally; leaves whorled, small, scalelike, microphyllous - Equisetaceae (Horsetail)
2. Plants with scaly or hairy, creeping rhizomes; leaves coiled in the bud forming fiddleheads, leaves simple or compound, often hairy or scaly Polypodiaceae (Fern)

## PARASITIC HERBS LACKING CHLOROPHYLL

1. Fleshy purplish, brownish, or yellowish white stems, leaves alternate, reduced and scalelike, 5 lobed united tubular purplish, reddish, or yellowish petals with an upper and lower lip, 5 lobed united sepals Orobanchaceae (Broomrape)

GRASSES AND GRASS-LIKE HERBS (SOME OF THE MONOCOTS)

1. Leaves simple, linear, sometimes reduced to bladeless sheaths, stems can have edges (Scirpus has rounded stems); petals and sepals lacking or reduced to bristles; the spike of reduced flowers form a spikelet; grows in wet or moist soil - Cyperaceae (Sedge)
2. Stems not jointed; leaves sheathing, alternate or all basal; flowers with 3 petals, 3 sepals, membranous, greenish or brownish; stamens 6 (rarely 3), 1 pistil - Juncaceae (Rush)
3. leaves mainly basal, linear, sheathing at the base; flowers terminal spike; 3 greenish petals; 3 greenish or purplish sepals; the sepals and petals not well differentiated; perianth of 3+3 tepals; stamens commonly 6, 1 pistil; Triglochin maritima - perianth greenish-yellow - Juncaginaceae (Arrowgrass)
4. Leaves alternate, simple, 2-ranked, stems round, often with hollow internodes, swollen nodes; flowers individually small and inconspicuous; no petals, no sepals, typically 3 stamens (rarely 2 or 6 ); each flower has 2 bracts forming a spikelet - Poaceae (Grass)
5. leaves alternate, long, linear, flat, sheathing; flowers densely crowed in terminal spikelike inflorescences; perianth lacking (0 petals, 0 sepals), 2-5 stamens; unisexual, pistillate and staminate spikes look like a hot-dog-on-a-stick; fruits: achene or nutlet; semiaquatic or aquatic -Typhaceae (Cattail)

## HERBS

## Green flowers

1. Flowers appear to be a single flower, but are composed of several flowers; flowers can be yellow, white, purple, pink or greenish; leaves alternate and simple - Asteraceae (Sunflower)
2. Flowers with 0 petals, $0-8$ sepals
A. flowers with 0 petals; 5 sepals; 3 conspicuous green or red to purple bracts; flowers in axillary clusters; leaves alternate and simple -Amaranthaceae (Amaranth) - Amaranthus blitoides
B. flowers with 0 petals; 2-5 small green, yellow, or brown sepals; leaves bluish, alternate and simple -Chenopodiaceae (Goosefoot)
C. female (pistillate) flowers and male (staminate) flowers; 0 petals; 0-8 sepals; green, brown, white, or yellow; Euphorbia fendleri: leaves opposite and simple; other Euporbiaceae: flowers with 0 petals; sepals either 0 or 3 to 8 lobed; leaves alternate and simple - Euphorbiaceae (Spurge)
D. flowers with 0 petals; 3 to 6 petaloid white, yellow, green, pink, or red sepals, small; some stems have swollen nodes; leaves alternate/basal and simple -Polygonaceae (Buckwheat) - Eriogonum alatum (yellowish, green), Polygonum lapathifolium (green, white, or pink), Rumex hymenosepalus (pink), and Rumex venosus (red)
E. flowers with 0 petals; 5 whitish green sepals which come to a point; lanceshaped leaves; leaves alternate and simple - Santalaceae (Sandalwood)
3. Flowers with 3 petals, 3 sepals
A. flowers with 3 brownish, purple, green or yellowish green petals (free or united, one petal differing from the other two in form, size, and coloration, often forming a lip or spur), 180 degree twist in the flower causing the upper petal to look like the lower one; 3 sepals; sepals either green and sepaloid or colored and petaloid; leaves often sheathing, parallel veined; monocot; leaves alternate and simple - Orchidaceae (Orchid)
4. Flowers with 4-5 petals, 4-8 sepals
A. flowers with 4 lobed white to green petals marked with green dots; flowers solitary or in cymes; 4 lobed sepals; leaves in whorls of 4 and simple; white margins on the leaf edges - Gentianaceae (Gentian) - Swertia albomarginata
B. flowers with 4 lobed funnelform greenish-white or cream petals; 4-8 lobed sepals, minute or lacking; leaves whorled and simple - Rubiaceae (Madder) - Galium triflorum
C. flowers with 4 or 5 united tubular red, green, or pink or purple petals; 4 or 5 sepals, at least partially united; leaves alternate and simple Scrophulariaceae (Figwort) - Castilleja, Cordylanthus wrightii
5. Flowers with 5 petals, 5 sepals
A. flowers with 5 to numerous small (1/8" wide) pale greenish/white tubular partly united petals borne in clusters; 5 parted sepals; reddish stems; leaves opposite or whorled and simple - Apocynaceae (Dogbane) Apocynum cannabinum
B. flowers with 5 united yellow, white, green, or pink; 5 sepals; petals and sepals are folded down; 5 erect, colored corona hoods on top; leaves opposite and simple - Asclepiadaceae (Milkweed)

## Brown flowers

1. Flowers with 0 petals, $0-8$ sepals
A. flowers with 0 petals; 2-5 small green, yellow, or brown sepals; leaves bluish, alternate and simple -Chenopodiaceae (Goosefoot)
B. female (pistillate) flowers and male (staminate) flowers; 0 petals; 0-8
sepals; green, brown, white, or yellow; Euphorbia fendleri: leaves opposite and simple; other Euporbiaceae: flowers with 0 petals; sepals either 0 or 3 to 8 lobed; leaves alternate and simple - Euphorbiaceae (Spurge)
2. Flowers with 3 petals, 3 sepals
A. flowers with 3 brownish, purple, green or yellowish green petals (free or united, one petal differing from the other two in form, size, and coloration, often forming a lip or spur), 180 degree twist in the flower causing the upper petal to look like the lower one; 3 sepals; sepals either green and sepaloid or colored and petaloid; leaves often sheathing, parallel veined; monocot; leaves alternate and simple - Orchidaceae (Orchid)

## White, Cream flowers

1. Flowers appear to be a single flower, but are composed of several flowers; flowers can be yellow, white, purple, pink or greenish; leaves simple, primarily basal in a rosette - Asteraceae (Sunflower)
2. Flowers with 0 petals, $0-8$ sepals
A. female (pistillate) flowers and male (staminate) flowers; 0 petals; 0-8 sepals; green, brown, white, or yellow; Euphorbia fendleri: leaves opposite and simple; other Euporbiaceae: flowers with 0 petals; sepals either 0 or 3 to 8 lobed; leaves alternate and simple - Euphorbiaceae (Spurge)
B. flowers with 0 petals; 4-5 white, pink, or purple united tubular petaloid sepals; leaves opposite and simple - Nyctaginaceae (Four O'Clock)
C. flowers with 0 petals; 3 to 6 petaloid whitish, pinkish, or purplish sepals; leaves simple, primarily basal in a rosette - Polygonaceae (Buckwheat)Eriogonum gordonii, Eriogonum inflatum, Eriogonum wetherillii
D. flowers with 0 petals; 3 to 6 petaloid white, yellow, green, pink or red sepals, small; some stems have swollen nodes; leaves alternate/basal and simple -Polygonaceae (Buckwheat) - Eriogonum alatum (yellowish, green), Polygonum lapathifolium (green, white, or pink), Rumex hymenosepalus (pink), and Rumex venosus (red)
E. flowers with no petals, 4-5 white petaloid sepals; leaves opposite and compound - Ranunculaceae (Buttercup) - Clematis ligusticifolia
F. flowers with 0 petals; 5 whitish green sepals which come to a point; lanceshaped leaves; leaves alternate and simple - Santalaceae (Sandalwood)
3. Flowers with 3 petals, 3 sepals
A. flowers with 3 large white petals, 3 white or green sepals; petals in multiples on stalk with flowers oriented in a downward direction; leaves basal and simple; leaves parallel veined; monocot - Agavaceae (Agave)
4. Flowers with $3-8$ petals, 3 sepals
A. flowers with 3 to 8 small to medium white, pink, or purple petals oriented in an upward or outward direction; 3 sepals (commonly petaloid); leaves basal and simple; leaves parallel veined; monocot - Liliaceae (Lily)
5. Flowers with 4 petals, $4-8$ sepals
A. flowers with 4 white, cream, yellow or purple petals; 4 sepals; leaves alternate and compound - Brassicaceae (Mustard)- some Descurainia (cream to yellow), and Nasturium officinale: white, rarely with purplish veins
B. flowers with 4 white small to medium petals (not papery), 4 sepals, leaves basal and alternate; leaves simple, primarily basal in a rosette Brassicaceae (Mustard) - Draba cuneifolia
C. flowers with 4 white, yellow, pink or purple small to medium petals (not papery); 4 sepals; leaves alternate and simple - Brassicaceae (Mustard)
D. flowers with 4 lobed white to green petals marked with green dots; flowers solitary or in cymes; 4 lobed sepals; leaves in whorls of 4 and simple; white margins on the leaf edges - Gentianaceae (Gentian) - Swertia albomarginata
E. flowers with 4 white, yellow, or pink large papery clawed petals; 4 sepals; lower leaves can be opposite or basal; leaves alternate and simpleOnagraceae (Evening-Primrose)
F. flowers with 4 united tiny white petals, 4 united tubular sepals; leaves simple, primarily basal in a rosette - Plantaginaceae (Plantain)
G. flowers with 4 lobed funnelform greenish-white or cream petals; 4-8 lobed sepals, minute or lacking; leaves whorled and simple - Rubiaceae (Madder) - Galium triflorum
6. Flowers with 4-5 petals, 4-5 sepals
A. flowers with 4 or 5 united lobed white to pink or rose petals in cymes; flowers tubular expanding at end, 4 or 5 lobed sepals; leaves opposite and simple - Gentianaceae (Gentian) - Centaurium
7. Flowers with 5 petals, 5 sepals ( $0-5$ sepals in Apiaceae)
A. flowers with 5 to numerous small (1/8" wide) pale greenish/white tubular partly united petals borne in clusters; 5 parted sepals; reddish stems; leaves opposite or whorled and simple - Apocynaceae (Dogbane) Apocynum cannabinum
B. flowers with 5 bluish-white tube-shaped partly united petals borne in terminal clusters; 5 parted sepals; leaves alternate and simple Apocynaceae (Dogbane) - Amsonia tomentosa
C. flowers with 5 united yellow, white, green, or pink; 5 sepals; petals and sepals are folded down; 5 erect, colored corona hoods on top; leaves opposite and simple -Asclepiadaceae (Milkweed)
D. flowers with 5 united small yellow, pink, white, or red, or purple petals; 5 sepals; leaves alternate and simple (sometimes lower leaves opposite in Cryptantha) - Boraginaceae (Borage)- Crytantha, Cynoglossum, Heliotropium, Lappula, Lithospermum
E. flowers with 5 white or pink petals; 5 sepals, 4-10 stamens; leaves opposite and simple - Caryophyllaceae (Pink)
F. flowers with 5 united funnelform white, blue, lavender, purple or rose petals; 5 separate sepals; leaves alternate and simple - Convolvulaceae (Morning Glory)
G. flowers with 5 blue, purple, pink, white, yellow or inconspicuous petals distinct or lower 2 united; 5 sepals united; leaves alternate and compound Fabaceae (Pea)
H. flowers with 5 united purple, blue, or white petals, not papery; 5 united sepals; flowers grouped in S-shaped cymes, rarely solitary; leaves alternate
and simple (the lower leaves sometimes opposite in Phacelia) Hydrophyllaceae (Waterleaf)
I. flowers with 5 united blue, purple, or white petals; 5 sepals; leaves opposite and simple - Lamiaceae (Mint)-Hedeoma drummondii, Marrubium vulgare
J. flowers with 5 united tubular white (or less often bluish or pink) petals; 5 lobed sepals, flowers in cymes; leaves opposite and simple Polemoniaceae (Phlox) - Phlox austromontana
K. flowers with 5 united petals; 5 lobed sepals; flowers are funnelform, scarlet, lavender, blue, white, yellow, or pink; leaves alternate and simple Polemoniaceae (Phlox) - Gilia
L. flowers with 5 white or cream (less commonly pink or blue tinged) petals with spurs colored like the sepals; 5 sepals; leaves basal and alternate, compound - Ranunculaceae - Buttercup - Aquilega micrantha
M. flowers with 5 united tubular white to violet or yellowish funnelform petals (some are ill-scented and open in the evening); 5 lobed tubular sepals; large leaves; leaves alternate and simple- Solanaceae (Potato)
N. flowers with 5 petals; 5 sepals or lacking; petals can be yellow, white, or purple; petals and sepals are distinct; individual flowers are small and grouped in compound umbels; leaves basal and compound - Apiaceae (Carrot)

## Yellow flowers

1. flowers appear to be a single flower, but are composed of several flowers; flowers can be yellow, white, purple, pink or greenish; leaves basal in a rosette and simple; flowers yellow, leaves opposite and simple (Flaveria, Thelesperma); flowers yellow, leaves opposite and compound (Bidens frondosa); or leaves alternate and simple - Asteraceae (Sunflower)
2. Flowers with 0 petals, $0-8$ sepals
A. flowers with 0 petals; 2-5 small green, yellow, or brown sepals; leaves bluish, alternate and simple -Chenopodiaceae (Goosefoot)
B. female (pistillate) flowers and male (staminate) flowers; 0 petals; 0-8 sepals; green, brown, white, or yellow; Euphorbia fendleri: leaves opposite and simple; other Euporbiaceae: flowers with 0 petals; sepals either 0 or 3 to 8 lobed; leaves alternate and simple - Euphorbiaceae (Spurge)
C. flowers with 0 petals; 3 to 6 petaloid white, yellow, green, pink or red sepals, small; some stems have swollen nodes; leaves alternate/basal and simple -Polygonaceae (Buckwheat) - Eriogonum alatum (yellowish, green); Eriogonum inflatum (leaves simple, primarily basal in a rosette, flowers whitish, yellow); Polygonum lapathifolium (green, white, or pink), Rumex hymenosepalus (pink), and Rumex venosus (red)
3. Flowers with 2-5 petals, 5 sepals
A. Flowers with 2 to 5 yellow petals, 5 green sepals, leaves basal and alternate; leaves simple, primarily basal in a rosette - Ranunculaceae Buttercup - Ranunculus testiculatus
4. Flowers with 3 petals, 3 sepals
A. flowers with 3 brownish, purple, green or yellowish green petals (free or
united, one petal differing from the other two in form, size, and coloration, often forming a lip or spur), 180 degree twist in the flower causing the upper petal to look like the lower one; 3 sepals; sepals either green and sepaloid or colored and petaloid; leaves often sheathing, parallel veined; monocot; leaves alternate and simple - Orchidaceae (Orchid)
5. Flowers with 4 petals, $2-4$ sepals
A. flowers with 4 white, yellow, or pink small to medium petals (not papery); 4 sepals; leaves alternate and simple - Brassicaceae (Mustard)
B. flowers with 4 white, cream, or yellow petals; 4 sepals; leaves alternate and compound - Brassicaceae (Mustard)- some Descurainia (cream to yellow), and Nasturtium officinale (white)
C. flowers with 4 yellow petals; 4 sepals; leaves alternate and compound Capparaceae (Caper)
D. Yellow flowers with 4 petals, the 2 outer ones spreading at the apex, the 2 inner ones united; 2 sepals; leaves basal and alternate, compoundFumariaceae (Bleedingheart)
E. flowers with 4 white, yellow, or pink large papery clawed petals; 4 sepals; lower leaves can be opposite or basal; leaves alternate and simpleOnagraceae (Evening-Primrose)
6. Flowers with 4-6 petals, 2 sepals
A. flowers with 4-6 yellow petals (generally 5) open only in sunshine, soon close; 2 united sepals; leaves alternate and simple - Portulaceae (Purslane) - Portulaca oleracea
B. flowers with 4 yellow petals; 2 sepals; leaves alternate and compound Fumariaceae (Fumitory)
7. Flowers with 5 petals, $0-5$ sepals
A. flowers with 5 petals; 5 sepals or lacking; petals can be yellow, white, or purple; petals and sepals are distinct; individual flowers are small and grouped in compound umbels; leaves basal and compound - Apiaceae (Carrot)
B. flowers with 5 united yellow, white, green, or pink; 5 sepals; petals and sepals are folded down; 5 erect, colored corona hoods on top; leaves opposite and simple - Asclepiadaceae (Milkweed)
C. flowers with 5 united small yellow, pink, white, red or purple petals; 5 sepals; leaves alternate and simple (sometimes lower leaves opposite in Cryptantha) - Boraginaceae (Borage)- Crytantha, Cynoglossum, Heliotropium
D. flowers with 5 blue, purple, pink, white, yellow or inconspicuous petals distinct or lower 2 united; 5 sepals united; leaves alternate and compound Fabaceae (Pea)
E. flowers with 5 distinct yellow, orange or bluish-purple petals; 5 distinct sepals; flowers papery and short -lived; leaves alternate and simple Linaceae (Flax)
F. flowers with 5 distinct yellow petals; 4-5 sepals; petaloid stamens; leaves alternate and simple - Loasaceae (Stickleaf) - Mentzelia albicaulis
G. flowers with 5 united petals; 5 lobed sepals; flowers are funnelform, scarlet,
lavender, blue, white, yellow, or pink; leaves alternate and simple Polemoniaceae (Phlox) - Gilia
H. flowers with 5 or more yellow petals, 5 sepals, leaves basal and alternate; leaves simple, primarily basal in a rosette - Ranunculaceae - Buttercup - Ranunculus cymbalaria
I. flowers with 5 red, yellow, or blue united petals; 5 sepals, at least partially united; leaves opposite and simple - Scrophulariaceae (Figwort) Mimulus
J. flowers with 5 united tubular yellow petals; 4 or 5 sepals, at least partially united; leaves alternate and simple - Scrophulariaceae (Figwort) Linaria dalmatica; Verbascum thapsum: (leaves also basal in a rosette and simple)
K. flowers with 5 united tubular white to violet or yellowish funnelform petals (some are ill-scented and open in the evening); 5 lobed tubular sepals; large leaves; leaves alternate and simple- Solanaceae (Potato)
L. flowers with 5 unequal petals, yellow, purple veined and commonly purple dorsally, the lowermost enlarged and spurred; 5 separate sepals, distinct or nearly so; leaves alternate and simple - Violaceae (Violet) - Viola purpurea var. venosa
M. flowers with 5 yellow petals; 5 sepals; plant lying flat on the ground, seeds with spines; leaves opposite and compound - Zygophyllaceae (Caltrop) Tribulus terrestris
8. Flowers with $5-10$ petals, 5 sepals
A. yellow flowers with 5-10 distinct petals; 5 sepals, numerous petaloid stamens; leaves alternate and simple - Loasaceae (Stickleaf) -Mentzelia albicaulis: 5 yellow petals; Mentzelia multiflora: 10 yellow petals; the inner 5 somewhat shorter and narrower; Mentzelia pterosperma: 10 petals; Mentzelia pumila: 10 petals

## Orange flowers

1. Flowers with 5 petals, $3-5$ sepals
A. flowers with 5 distinct yellow, orange or bluish-purple petals; 5 distinct sepals; flowers papery and short -lived; leaves alternate and simple Linaceae (Flax) - Linum aristatum: bright yellow or orange-yellow petals
B. flowers with 5 distinct orange or red petals; 3 to 5 sepals; leaves alternate and simple - Malvaceae (Mallow)

## Pink flowers

1. Flowers appear to be a single flower, but are composed of several flowers; flowers can be yellow, white, purple, pink or greenish; leaves alternate and simple - Asteraceae (Sunflower)
2. Flowers with 0 petals, 3-6 sepals
A. flowers with 0 petals; 4-5 white, pink, or purple united tubular petaloid sepals; leaves opposite and simple - Nyctaginaceae (Four O’Clock)
B. flowers with 0 petals; 3 to 6 petaloid white, yellow, green, pink or red sepals, small; some stems have swollen nodes; leaves alternate/basal and simple -

Polygonaceae (Buckwheat) - Eriogonum alatum (yellowish, green); Eriogonum gordonii (flowers white or tinged with pink, midrib green or purple); Polygonum lapathifolium (green, white, or pink); Rumex hymenosepalus (pink); and Rumex venosus (red)
3. Flowers with 3-8 petals, 3 sepals
A. flowers with 3 to 8 small to medium white, pink, or purple petals oriented in an upward or outward direction; 3 sepals (commonly petaloid); leaves basal and simple; leaves parallel veined; monocot - Liliaceae (Lily)
4. Flowers with 4 petals, 4 sepals
A. flowers with 4 white, yellow, pink or purple small to medium petals (not papery); 4 sepals; leaves alternate and simple - Brassicaceae (Mustard)
B. flowers with 4 white, yellow, or pink large papery clawed petals; 4 sepals; lower leaves can be opposite or basal; leaves alternate and simple-
Onagraceae (Evening-Primrose)
5. Flowers with 4-5 petals, 4-5 sepals
A. flowers with 4 or 5 united lobed white to pink or rose petals in cymes; flowers tubular expanding at end, 4 or 5 lobed sepals; leaves opposite and simple - Gentianaceae (Gentian) - Centaurium
B. flowers with 4 or 5 united tubular red, green, or pink or purple petals; 4 or 5 sepals, at least partially united; leaves alternate and simple -
Scrophulariaceae (Figwort) - Castilleja, Cordylanthus wrightii
6. Flowers with 5 petals, 5 sepals
A. flowers with 5 united yellow, white, green, or pink; 5 sepals; petals and sepals are folded down; 5 erect, colored corona hoods on top; leaves opposite and simple -Asclepiadaceae (Milkweed)
B. flowers with 5 united small yellow, pink, white, red or purple petals; 5 sepals; leaves alternate and simple (sometimes lower leaves opposite in Cryptantha) - Boraginaceae (Borage)- Crytantha, Cynoglossum, Heliotropium, Lappula, Lithospermum
C. flowers with 5 white or pink petals; 5 sepals, 4-10 stamens; leaves opposite and simple - Caryophyllaceae (Pink)
D. flowers with 5 united funnelform white, blue, lavender, purple or rose petals; 5 separate sepals; leaves alternate and simple - Convolvulaceae (Morning Glory)
E. flowers with 5 blue, purple, pink, white, yellow or inconspicuous petals distinct or lower 2 united; 5 sepals united; leaves alternate and compound Fabaceae (Pea)
F. flowers with 5 pinkish, purple petals; 5 sepals; leaves opposite and compound; or leaves basal and opposite, compound-Geraniaceae (Geranium)
G. flowers with 5 united petals; 5 lobed sepals; flowers are funnelform, scarlet, lavender, blue, white, yellow, or pink; leaves alternate and simple Polemoniaceae (Phlox) - Gilia
H. flowers with 5 united tubular white (or less often bluish or pink) petals; 5 lobed sepals, flowers in cymes; leaves opposite and simple -
Polemoniaceae (Phlox) - Phlox austromontana
I. flowers with 5 lobed lavender to pink tubular petals with the corolla tube rimmed in yellow; 5 tubular lobed sepals; leaves simple, primarily basal in a rosette - Primulaceae (Primrose)
J. flowers with 5 white or cream (less commonly pink or blue tinged) petals with spurs colored like the sepals; 5 sepals; leaves basal and alternate, compound - Ranunculaceae - Buttercup - Aquilega micrantha

## Blue flowers

1. Flowers with 4 petals, 5 sepals
A. flowers 4 petals ( 2 unlike sets of 2 purple or blue petals); 5 purple petaloid sepals; leaves alternate and compound - Ranunculaceae (Buttercup) Delphinium (Larkspur)
2. Flowers with 5 petals, 5 sepals
A. flowers with 5 bluish-white tube-shaped partly united petals borne in terminal clusters; 5 parted sepals; leaves alternate and simple Apocynaceae (Dogbane) - Amsonia tomentosa
B. flowers with 5 united funnelform white, blue, lavender, purple or rose petals; 5 separate sepals; leaves alternate and simple - Convolvulaceae (Morning Glory)
C. flowers with 5 blue, purple, pink, white, yellow or inconspicuous petals distinct or lower 2 united; 5 sepals united; leaves alternate and compound - Fabaceae (Pea)
D. flowers with 5 united purple, blue, or white petals, not papery; 5 united sepals; flowers grouped in S-shaped cymes, rarely solitary; leaves alternate and simple (the lower leaves sometimes opposite in Phacelia) Hydrophyllaceae (Waterleaf)
E. flowers with 5 united blue, purple, or white petals; 5 sepals; leaves opposite and simple - Lamiaceae (Mint)-Hedeoma drummondii, Marrubium vulgare
F. flowers with 5 distinct yellow, orange or bluish-purple petals; 5 distinct sepals; flowers papery and short -lived; leaves alternate and simple Linaceae (Flax)
G. flowers with 5 united tubular white (or less often bluish or pink) petals; 5 lobed sepals, flowers in cymes; leaves opposite and simple Polemoniaceae (Phlox) - Phlox austromontana
H. flowers with 5 united petals; 5 lobed sepals; flowers are funnelform, scarlet, lavender, blue, white, yellow, or pink; leaves alternate and simple Polemoniaceae (Phlox) - Gilia
I. flowers with 5 white or cream (less commonly pink or blue tinged) petals with spurs colored like the sepals; 5 sepals; leaves basal and alternate, compound - Ranunculaceae - Buttercup - Aquilega micrantha
J. flowers with 5 red, yellow, or blue united petals; 5 sepals, at least partially united; leaves opposite and simple - Scrophulariaceae (Figwort) Penstemon
K. flowers with 5 lobed united tubular pale blue to purple petals, regular or slightly 2-lipped; flowers borne in long dense spikes; 5 toothed sepals, usually tubular; leaves opposite and simple - Verbenaceae (Vervain) -

## Purple, Lavender flowers

1. Flowers appear to be a single flower, but are composed of several flowers; flowers can be yellow, white, purple, pink or greenish; leaves simple, primarily basal in a rosette - Asteraceae (Sunflower)
2. Flowers with 0 petals, $4-5$ sepals
A. flowers with 0 petals; 5 sepals; 3 conspicuous green or red to purple bracts; flowers in axillary clusters; leaves alternate and simple -
Amaranthaceae (Amaranth) - Amaranthus blitoides
B. flowers with 0 petals; 3 to 6 petaloid sepals; flowers white or tinged with pink, midrib green or purple; leaves simple, primarily basal in a rosette Polygonaceae (Buckwheat)- Eriogonum gordonii
C. flowers with 0 petals; 4-5 white, pink, or purple united tubular petaloid sepals; leaves opposite and simple - Nyctaginaceae (Four O’Clock)
3. Flowers with 3 petals, 3 sepals
A. flowers with 3 brownish, purple, green or yellowish green petals (free or united, one petal differing from the other two in form, size, and coloration, often forming a lip or spur), 180 degree twist in the flower causing the upper petal to look like the lower one; 3 sepals; sepals either green and sepaloid or colored and petaloid; leaves often sheathing, parallel veined; monocot; leaves alternate and simple - Orchidaceae (Orchid)
4. Flowers with 3-8 petals, 3 sepals
A. flowers with 3 to 8 small to medium white, pink, or purple petals oriented in an upward or outward direction; 3 sepals (commonly petaloid); leaves basal and simple; leaves parallel veined; monocot - Liliaceae (Lily)
5. Flowers with 4-5 petals, 4-5 sepals
A. flowers with 4 white, yellow, pink or purple small to medium petals (not papery); 4 sepals; leaves alternate and simple - Brassicaceae (Mustard)
B. flowers 4 petals ( 2 unlike sets of 2 purple or blue petals);5 purple petaloid sepals; leaves alternate and compound - Ranunculaceae (Buttercup) Delphinium (Larkspur)
C. flowers with 4 or 5 united tubular red, green, or pink or purple petals; 4 or 5 sepals, at least partially united; leaves alternate and simple Scrophulariaceae (Figwort) - Cordylanthus wrightii
6. Flowers with 5 petals, 5 sepals ( $0-5$ sepals in Apiaceae)
A. flowers with 5 united small yellow, pink, white, red or purple petals; 5 sepals; leaves alternate and simple (sometimes lower leaves opposite in Cryptantha) - Boraginaceae (Borage)
B. flowers with 5 united funnelform white, blue, lavender, purple or rose petals; 5 separate sepals; leaves alternate and simple - Convolvulaceae (Morning Glory)
C. flowers with 5 blue, purple, pink, white, yellow or inconspicuous petals distinct or lower 2 united; 5 sepals united; leaves alternate and compound Fabaceae (Pea)
D. flowers with 5 pinkish, purple petals; 5 sepals; leaves basal and opposite, compound - Geraniaceae (Geranium)
E. flowers with 5 united purple, blue, or white petals, not papery; 5 united sepals; flowers grouped in S-shaped cymes, rarely solitary; leaves alternate and simple (the lower leaves sometimes opposite in Phacelia) Hydrophyllaceae (Waterleaf)
F. flowers with 5 united blue, purple, or white petals; 5 sepals; leaves opposite and simple - Lamiaceae (Mint)-Hedeoma drummondii, Marrubium vulgare
G. flowers with 5 distinct yellow or bluish-purple petals; 5 distinct sepals; flowers papery and short -lived; leaves alternate and simple - Linaceae (Flax)
H. flowers with 5 united petals; 5 lobed sepals; flowers are funnelform, scarlet, lavender, blue, white, yellow, or pink; leaves alternate and simple Polemoniaceae (Phlox) - Gilia
I. flowers with 5 lobed lavender to pink tubular petals with the corolla tube rimmed in yellow; 5 tubular lobed sepals; leaves simple, primarily basal in a rosette - Primulaceae (Primrose)
J. flowers with 5 united tubular white to violet or yellowish funnelform petals (some are ill-scented and open in the evening); 5 lobed tubular sepals; large leaves; leaves alternate and simple- Solanaceae (Potato)
K. flowers with 5 lobed united tubular pale blue to purple petals, regular or slightly 2 -lipped; flowers borne in long dense spikes; 5 toothed sepals, usually tubular; leaves opposite and simple - Verbenaceae (Vervain) Verbena bracteata
L. flowers with 5 unequal petals, yellow, purple veined and commonly purple dorsally, the lowermost enlarged and spurred; 5 separate sepals, distinct or nearly so; leaves alternate and simple - Violaceae (Violet) - Viola purpurea var. venosa
M. flowers with 5 petals; 5 sepals or lacking; petals can be yellow, white, or purple; petals and sepals are distinct; individual flowers are small and grouped in compound umbels; leaves basal and compound - Apiaceae (Carrot)

## Red flowers

1. Flowers with 0 petals, $3-6$ sepals
A. flowers with 0 petals; 5 sepals; 3 conspicuous green or red to purple bracts; flowers in axillary clusters; leaves alternate and simple Amaranthaceae (Amaranth) - Amaranthus blitoides
B. flowers with 0 petals; 3 to 6 petaloid white, yellow, green, pink or red sepals, small; some stems have swollen nodes; leaves alternate/basal and simple -Polygonaceae (Buckwheat) - Eriogonum alatum (yellowish, green), Polygonum lapathifolium (green, white, or pink), Rumex hymenosepalus (pink), and Rumex venosus (red)
2. Flowers with $4-5$ petals, 4-5 sepals
A. flowers with 4 or 5 united tubular red, green, or pink or purple petals; 4 or 5 sepals, at least partially united; leaves alternate and simple -

## Scrophulariaceae (Figwort) - Castilleja

3. Flowers with 5 petals, $3-5$ sepals
A. flowers with 5 united small yellow, pink, white, red or purple petals; 5 sepals; leaves alternate and simple (sometimes lower leaves opposite in Cryptantha) - Boraginaceae (Borage)- Crytantha, Cynoglossum, Heliotropium, Lappula, Lithospermum
B. flowers with 5 distinct orange or red petals; 3 to 5 sepals; leaves alternate and simple - Malvaceae (Mallow)
C. flowers with 5 united petals; 5 lobed united sepals; flowers are funnelform, scarlet, lavender, blue, white, yellow, or pink; leaves alternate and simple Polemoniaceae (Phlox) - Gilia
D. flowers with 5 red, yellow, or blue united petals; 5 sepals, at least partially united; leaves opposite and simple - Scrophulariaceae (Figwort) Mimulus, Penstemon
