

































Flowering Parts in 3s -- Parallel Veins




Family	Leaves	Flowers	Genus Common Name
 Lily Family	Leaves mostly with parallel veins	Flower parts mostly in 3s	Single or two leaf axils stem tip Trillium
			branch tips Twisted Stalks
			Numerous in terminal clusters False Hellebore
			Numerous in terminal clusters Solomon Seals
			Numerous in terminal clusters Camases
			Numerous in terminal clusters Bear Grass
 Orchid Family	Leaves mostly with parallel veins	Flower parts mostly in 3s	Single Queens Cup
			Single Lilies
			Bilateral Large & single Slippers
			Bilateral Small & clustered Bog Orchids
			Bilateral Small & clustered Coral Roots
			Radial or nearly so Iris like "normal" Douglas' Grass Widow
 Iris Family	Leaves mostly with parallel veins	Flower parts mostly in 3s	Iris like "normal" Irises
			Basal & numerous Grass- to sword-like
			Broad & on the stems
			Tiny bracts Not green
Group 1: On stem Broad	Leaves mostly with parallel veins	Flower parts mostly in 3s	Numerous in terminal clusters False Lily-of-the-Valley
			Numerous in terminal clusters Onions
			Numerous in terminal clusters False Lily-of-the-Valley
Group 2: Basal Grasslike	Leaves mostly with parallel veins	Flower parts mostly in 3s	Single Queens Cup
			Single Lilies
			Bilateral Large & single Slippers
Group 3: Basal Broad	Leaves mostly with parallel veins	Flower parts mostly in 3s	Bilateral Small & clustered Bog Orchids
			Bilateral Small & clustered Coral Roots
			Radial or nearly so Iris like "normal" Douglas' Grass Widow

Flowering Parts in 4s































Family	Fruit	Flowers		Leaves	Genus Common Name
Evening-Primrose Family			 Stigma 4 lobed Ovary inferior	Sepals petal-like	
	Sepals folded back				
	Petals 2 lobed				
	Petals 2 colored, spotted &/or deeply lobed			 	
Mustard Family			 6 stamens, 4 long & 2 short Ovary superior	Petals arranged like letter H	
				Petals arranged like letter X	
					
				Most genera have opposite & narrow leaves	Alternate leaves Fireweed Opposite leaves Evening Primroses Willow-Herbs Alternate leaves Clarkias
				Basal & alternate	Wallflowers Mostly basal. Linear Rockcresses Mostly basal Linear to oval Drabas

ID Group		Family	Fruit	Flowers			Leaves	Genus Common Name
Flowers with Bilateral Symmetry	Petals Fused			Colored "brushes" are bracts	Yellow red		Linear on stem	Paintbrushes
					Greenish			
		Figwort Family		Flowers form a tube	Lavender, white, yellow	 	Mostly basal & fernlike	louseworts
					Blue purple		Small to large Opposite	Penstemons
				Monkey flower says "Ahhhh"	Pink yellow		Prominently veined	Monkeyflower
	Petals Free	 Pea Family		Sweetpea like	 	Palmate	Lupines	
							Clovers	
		 Violet Family		Pansy-like Blue-violet to yellow		Broad & Basal	Violets	
						Long Ladder Group Pinnately compound	Vetch Peavine Locoweed Crazyweed	

Many Small Flowers in Tight Bunches

<p>Parsley Family</p>	<p>Buckwheat Family</p>	<p>Waterleaf Family</p>
<p>Angelicas</p>	<p>Bistortas</p>	<p>Waterleafs</p>
<p>Desert Parsleys</p>	<p>Desert Buckwheats</p>	<p>Phacelias</p>
<p>Lovages</p>	<p>Docks</p>	<p>Knotweeds</p>
<p>Sweet-Cicelias</p>	<p>Phacelias</p>	<p>Docks</p>
		

Flowers with Central Clusters

ID Group	Family	Flowers			Leaves	Genus	Genus Common Name					
Flowers with Central Clusters	 <p>Buttercup Family 71 species in WA. --- All nonwoody Annuals & perennials</p>	Petals/sepals 5 to 12	Radial symmetry mostly	Whitish	    	Mostly compound or deeply divided	Anemone	Anemones Pasqueflower				
	Some bilateral sym.		Red/yellow	  			Caltha	Marsh Marigold				
		Blue to purple	Aquilegia				Columbines					
			Delphinium				Larkspurs					
				Aconitum			Monkshoods					
	 <p>Rose Family 107 Species in WA. -- Trees, shrubs, annuals, perennials --</p>	Petals/sepals 5	Radial symmetry	Bright yellow	  	3 or 3-5 leaflets. Basal. Low growing. Toothed	Potentilla	Cinquefoils				
	All simple with one also in tight clusters.		Usually white	 			Rubus	Brambles				
		Usually reddish					Fragaria	Strawberries				
	Hypanthium					10' shrub 3 leaflets. Toothed	Rubus	Salmonberry				
	 <p>Sunflower Family 350 species in WA. --- Mostly annuals & perennials. 1 shrub group. ---</p>	"Petals" several to numerous	Radial symmetry. Pictures show nearly true colors.	Ray & disc flowers. Normal appearance	     	     	Brd lvs. Not basal. Arnica - opp. lvs.	Senecio	Groundsels			
	Arnica							Arnicas				
	Headlike Flower Cluster										Linear. 1 also fernlike. Often appear basal - more &/or larger	Erigeron
										Achillea		Yarrow
					Agoseris	Agoseris						
						Antennaria	Pussytoes					

Heath Family Saprophytes



Indian-Pipe



Pinesap



Pinedrops

Flower
Bell

Flower
Urn

Leaves

Scalelike
White, reddish, yellowish

Heath Family Heathers



General
Evergreen shrubby mat



Leaves
Needlelike or scalelike



Flower
Urn or bell
White, pink, yellow



Heath Family Blueberries



General
Medium sized shrub - 1 to 9 feet



Leaves
Ovate



Fruit
Berries bluish to black or red



Flowers
All urn

Heath Family Kinnikinnicks



Flower
Urn



Leaves
Ovate & leathery

General
Open or dense mats

Heath Family Salal

General
Evergreen dense shrub.
Medium size



Leaves
Ovate, leathery



Berries
Purple to black

Flowers
Urn



Heath Family Wintergreens



Leaves
Very basal



General
Small - 3"



Flowers
Face downward,
Bell or open almost bell-like

**Phlox Family
Phloxes**

Flower
Long narrow tubes
With perp. Lobes.
"Bulls-eye" ring

Leaves
Linear

Spreading phlox
Phlox diffusa

Showy phlox
Phlox speciosa

Long leaf phlox
Phlox longifolia

**Phlox Family
Collomias**

Flower
Long narrow tube
with perpendicular lobes

Leaves
Long & narrow

General
To 3' tall

Large-flowered Collomia - 3'

**Phlox Family
Gillas (Ipomopsis)**

Flower
Long narrow tube
With perpendicular lobes

General
To 3' high

Leaves
3" - 4" & narrow

Scarlet Gilia
Gilia aggregata

**Phlox Family
Jacob's Ladders (Polemonium)**

Flower
Showy. "Bull's-eye" ring

Leaves
Like rungs on a ladder

General
6" to 1.5' tall

Showy Jacob's Ladder - to 8'
Polemonium pulcherrimum

Low Jacob's Ladder - to 20"
Polemonium californicum

Elegant Jacob's Ladder - to 6'
Polemonium elegans

**Borage Family
Cryptanthas**

Flower
Fiddleheads. Flaring tubes.
White with yellow center

General
Coarsely hairy

Common Cryptantha
Cryptantha affinis

Northern Cryptantha 1.5' /
Cryptantha celestoides

Watson's Cryptantha
Cryptantha watsonii

**Borage Family
Stickseeds (*Hackelia*)**

Flower
Short flaring tube.
Central colored ring.

Blue stickseed 3'
Hackelia micrantha

Hairy
Stems & leaves.
Not super obvious

No fiddlehead

General:
3 to 4' tall

**Borage Family
Forget-Me-Nots (*Myosotis*)**

General:
To 1.5' tall. Slender & weak.
Not noticeably hairy.

Flower
Fiddleheads (not so obvious)
Yellow central ring.
Short tube.

Small-flowered Forget-Me-Not

**Borage Family
Fiddlenecks (*Amsinckia*)**

Bristly hairy
Fiddleheads

General
Branched stems.
To 2.5'

Flower
Narrow tube. Spreading lobes.
No central ring.

**Borage Family
PUCCOON (*Lithospermum*)**

General
Clusters of stems
to 2' tall.

No fiddleheads

Hairy
Appressed hairy.
Not super obvious.

Leaves
Linear

Flower
Few-flowered clusters.
Short tubes, spreading lobes.
No colored ring.

**Borage Family
Bluebells (*Mertensia*)**

Flower
Bell shaped
Drooping clusters

No fiddleheads
Not hairy
No colored central ring

General:
Low to medium-sized herbs

Low Bluebells
To 4.5'

Low Bluebells
1-1.5' tall

Pink Family
Sandworts (4 separate genus – all Sandworts)

Leaves
 Opposite, often narrow.
 Borne on enlarged nodes.

Flower
 Petals not notched.
 Obvious superior bulbous ovary.

Bigleaf Sandwort 6"
Minuartia macroloba

Alpine Sandwort or Arctic
Minuartia obtusiloba

Thread-leaved Sandwort 1'
Eremogone capillaris

Pink Family
Starworts (Stellaria)

Flower
 Petals often notched or divided.
 Obvious superior bulbous ovary.

Long Stalked Starwort 10"
Stellaria longipes

Leaves
 Opposite, often narrow.
 Borne on enlarged nodes

General
 To 1' tall.

Boreal Starwort

Pink Family
Silenes

Bladder Campion

Parry's Silene 16"
Silene parryi

Pink Family
Chickweeds (Cerastium)

Flower
 Petals often notched or divided.
 Obvious superior bulbous ovary.

Leaves
 Opposite & narrow
 Borne on enlarged nodes

Field Chickweed
Cerastium arvense

**Purslane Family
Claytonias**




Flower
Often pink stripes.
2 green sepals.

General
More or less succulent.
Smallish plants.

Siberian Minors Lettuce
Claytonia sibirica

Western Spring Beauty

**Purslane Family
Lewisias & Lewisioopsis**



Bitterroot does not have 2 sepals

Bitterroot
Lewisia rediviva

Woody's Lewisia
Lewisioopsis tweedyi

**Purslane Family
Claytonias – more examples**



Miner's Lettuce
Claytonia parvifolia


Heart-leaf Springbeauty
Claytonia cordifolia

Alpine Springbeauty
Claytonia megarhiza

**Purslane Family
Montias**

General
More or less succulent.
Smallish plants.

Flower
Often pink stripes.
2 green sepals.



Narrow-leaved montia

Small-leaved Montia
Montia parvifolia

**Purslane Family
Lewisias**

Flower
Often pink stripes.
2 green sepals.

General
More or less succulent.
Smallish plants.



Alpine Lewisia
Lewisia procneps

Columbia Lewisia
Lewisia columbiana

Saxifrage Family
Saxifrages (Micranthes)

There are six genera with the common name Saxifrage




Western Saxifrage 10"
Micranthes occidentalis

Brook Saxifrage
Micranthus nelsoniana

Saxifrage Family
Heucheras - Alumroots

Saxifrage Family
Elmera - Coralbells



Lava alumroot 3"
Heuchera cylindrica

Saxifrage Family
Saxifrages (Leptarrhena)



Leather Leaf Saxifrage
Leptarrhena perfoliata

Saxifrage Family
Prairie-stars (Lithophragma)



Bulbiferous Prairie-star
Lithophragma glaba 10"

Small-flowered Prairie-star
L. parviflorum 3"

Saxifrage Family
Saxifrages (Saxifraga)



Spotted Saxifrage 5"
Saxifraga bronchialis

Tufted Alpine Saxifrage 6"
Saxifraga cespitosa

Saxifrage Family
Lobed group

2 of the 3 common ones shown here.



Foamflower

Fringedcup