














Flowering Plants

Most photographs obtained from :
WTU Herbarium Image Collection –
Burke Museum

PLANT EVOLUTION TIMELINE



Geologic Time			NON-VASCULAR		VASCULAR				
Era	Period	Years Ago (MYA)	Aquatic	Land	No Seeds	Gymnosperms			Angiosperms
			Algae	Mosses 24,000	Ferns 12,000	Ginkgos	Conifers 600	Cycads	Flowering Plants 230,000
Cenozoic	Quaternary	1.8							
	Tertiary	65							
Mesozoic	Cretaceous	145							
	Jurassic	213							
	Triassic	248							
Paleozoic	Permian	286							
	Carboniferous	360							
	Devonian	410							
	Silurian	440							
	Ordovician	504							
	Cambrian	544							

PRECAMBRIAN



3,200 vascular plant species in Washington. 143 plant families in Washington

Learning level

- A. Family level -- class 1 & 2
- B. Genus level -- maybe some common ones
- C. Species -- class 3 (eastside) & 4 (Mt. Rainier)

Division: Flowering plants.....Conifers, Ferns, Mosses, Algae, etc.

Family: SunflowerRose, Buttercup, Lily, Orchid, Mustard, Buckwheat, etc.

Genus: Daisy.....Balsamroot, Pussytoes, Agoseris, Arnica, etc.

Species: Subalpine Daisy.....Bitter Daisy, Cut-leaved Daisy, Golden Daisy, etc.

Identifying plants

- A. Thumb through plant books. *
- B. Use apps -- narrow search by plant characteristics.
- C. Turner -- same.
- D. Learn 25 common plant families .
 Books & apps. arranged by family.
 Modify WNPS plant lists -- alpha by family (the 25 = 90%) *



[Adams](#)

[Franklin](#)

[Lewis](#)

[Snohomish](#)

[Asotin](#)

[Garfield](#)

[Lincoln](#)

[Spokane](#)

[Benton](#)

[Grant](#)

[Mason](#)

[Stevens](#)

[Chelan](#)

[Grays Harbor](#)

[Okanogan](#)

[Thurston](#)

[Clallam](#)

[Island](#)

[Pacific](#)

[Wahkiakum](#)

[Clark](#)

[Jefferson](#)

[Pend Oreille](#)

[Walla Walla](#)

[Columbia](#)

[King](#)

[Pierce](#)

[Whatcom](#)

[Cowlitz](#)

[Kitsap](#)

[San Juan](#)

[Whitman](#)

[Douglas](#)

[Kittitas](#)

[Skagit](#)

[Yakima](#)

[Ferry](#)

[Klickitat](#)

[Skamania](#)

Genus/species	Common Name	Family
<i>Abies lasiocarpa</i>	Sub-alpine fir	Pinaceae
<i>Agoseris glauca</i>	Mountain agoseris	Asteraceae
<i>Antennaria alpina</i>	Alpine pussy-toes	Asteraceae
<i>Antennaria lanata</i>	Woolly pussy-toes	Asteraceae
<i>Arabis lyallii</i>	Lyall's rockcress	Brassicaceae
<i>Arctostaphylos uva-ursi</i>	Bearberry	Ericaceae
<i>Arenaria nuttallii</i>	Nuttall's sandwort	Caryophyllaceae
<i>Arenaria obtusiloba</i>	Arctic sandwort	Caryophyllaceae
<i>Artemesia trifurcata</i>	Three-forked artemesia	Asteraceae
<i>Aster alpigenus</i>	Alpine aster	Asteraceae
<i>Carex spectabilis</i>	Showy sedge	Cyperaceae
<i>Castilleja parviflora oreopola</i>	Magenta paintbrush	Scrophulariaceae
<i>Castilleja rupicola</i>	Cliff paintbrush	Scrophulariaceae
<i>Collomia debilis</i>	Alpine collomia	Polemoniaceae
<i>Epilobium alpinum</i>	Alpine willow-herb	Onagraceae
<i>Erigeron aureus</i>	Golden fleabane	Asteraceae
<i>Eriogonum pyrolifolium</i>	Alpine buckwheat	Polygonaceae
<i>Hieracium gracile</i>	Slender hawkweed	Asteraceae
<i>Juncus</i> sp.	Rush	Juncaceae
<i>Juniperus communis</i>	Mountain juniper	Cupressaceae
<i>Luetkea pectinata</i>	Partridge foot	Rosaceae
<i>Lupinus lepidus</i>	Prairie lupine	Fabaceae
<i>Luzula hitchcockii</i>	Smooth woodrush	Juncaceae
<i>Pedicularis contorta</i>	Coiled lousewort	Scrophulariaceae
<i>Pedicularis ornithoryncha</i>	Bird's-beak lousewort	Scrophulariaceae
<i>Penstemon davidsonii</i>	Davidson's penstemon	Scrophulariaceae
<i>Penstemon procerus</i>	Small-flowered penstemon	Scrophulariaceae
<i>Phlox diffusa</i>	Spreading phlox	Polemoniaceae
<i>Phyllodoce empetriformis</i>	Red mountain heather	Ericaceae
<i>Phyllodoce glanduliflora</i>	Yellow heather	Ericaceae
<i>Pinus albicaulis</i>	White-bark pine	Pinaceae
<i>Poa</i> sp.	Bluegrass	Poaceae

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Genus/Species	Common Name	Family	Family Common name
<i>Mertensia paniculata</i>	Tall bluebells	Boraginaceae	Borage
<i>Eriogonum pyrolifolium</i>	Alpine buckwheat	Polygonaceae	Buckwheat
<i>Oxyria digyna</i>	Mountain sorrel	Polygonaceae	Buckwheat
<i>Polygonum bistortoides</i>	Mountain bistort	Polygonaceae	Buckwheat
<i>Polygonum newberryi</i>	Newberry's knotweed	Polygonaceae	Buckwheat
<i>Anemone drummondii</i>	Drummond's anemone	Ranunculaceae	Buttercup
<i>Anemone occidentalis</i>	Mountain pasqueflower	Ranunculaceae	Buttercup
<i>Caltha biflora</i>	White marshmarigold	Ranunculaceae	Buttercup
<i>Caltha leptosepala</i>	Elkslip	Ranunculaceae	Buttercup
<i>Ranunculus eschscholtzii</i>	Snow buttercup	Ranunculaceae	Buttercup
<i>Empetrum nigrum</i>	Crowberry	Empetraceae	Crowberry
<i>Ribes viscosissimum</i>	Sticky currant	Grossulariaceae	Currant
<i>Epilobium alpinum</i>	Alpine willow-herb	Onagraceae	Evening-Primrose
<i>Epilobium angustifolium</i>	Fireweed	Onagraceae	Evening-Primrose
<i>Athyrium distentifolium</i>	Alpine lady fern	Polypodiaceae	Fern
<i>Cheilanthes gracillima</i>	Lace fern	Polypodiaceae	Fern
<i>Cryptogramma crista</i>	Parsley fern	Polypodiaceae	Fern
<i>Polystichum lonchitis</i>	Holly fern	Polypodiaceae	Fern
<i>Castilleja miniata</i>	Scarlet paintbrush	Scrophulariaceae	Figwort
<i>Castilleja parviflora oreopola</i>	Magenta paintbrush	Scrophulariaceae	Figwort
<i>Castilleja rupicola</i>	Cliff paintbrush	Scrophulariaceae	Figwort
<i>Pedicularis bracteosa</i>	Bracted lousewort	Scrophulariaceae	Figwort
<i>Pedicularis contorta</i>	Coiled lousewort	Scrophulariaceae	Figwort
<i>Pedicularis groenlandica</i>	Elephant's head	Scrophulariaceae	Figwort
<i>Pedicularis ornithoryncha</i>	Bird's-beak lousewort	Scrophulariaceae	Figwort
<i>Pedicularis racemosa</i>	Sickle-top lousewort	Scrophulariaceae	Figwort
<i>Pedicularis rainierensis</i>	Mt. Rainier lousewort	Scrophulariaceae	Figwort
<i>Penstemon davidsonii</i>	Davidson's penstemon	Scrophulariaceae	Figwort
<i>Penstemon fruticosus</i>	Shrubby penstemon	Scrophulariaceae	Figwort
<i>Penstemon procerus</i>	Small-flowered penstemon	Scrophulariaceae	Figwort
<i>Penstemon rupicola</i>	Cliff penstemon	Scrophulariaceae	Figwort
<i>Veronica cusickii</i>	Cusick's speedwell	Scrophulariaceae	Figwort

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Learning plants

- A. Plant of the day. *
- B. Go on field trips. Remember what you can.
 Take pictures . Store by hike. Study at home.
- C. Study books or on line (UW Herbarium website, other
 apps.)
- D. Power point. Arrange by family -- genus & species.

Sunflower Family

Daisies (Erigeron)



Daisies

Cauline lvs ample
to much reduced



Bitter Daisy 2 ½'
Erigeron acris



Flower
white



Dark to pale
purple

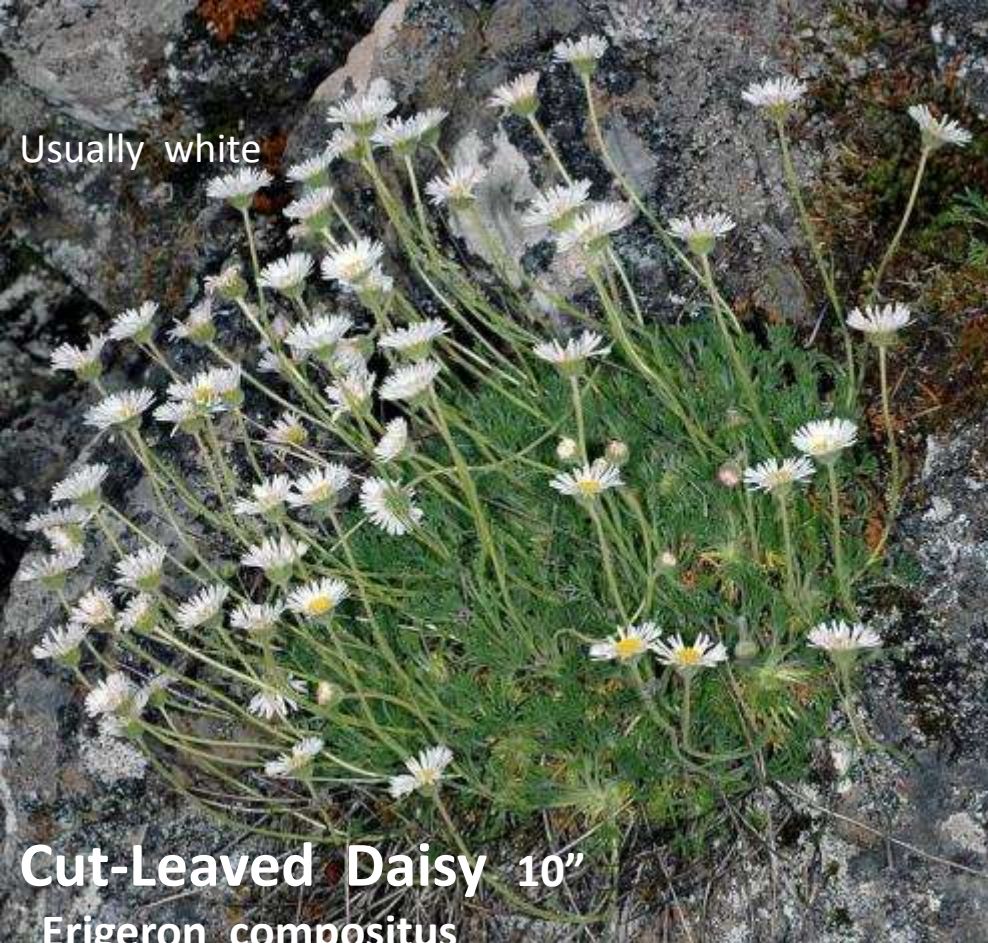
Cauline lvs not
much reduced



Subalpine Daisy 2+'

Erigeron peregrinus UGA1358590





Usually white

Cut-Leaved Daisy 10"
Erigeron compositus



yellow



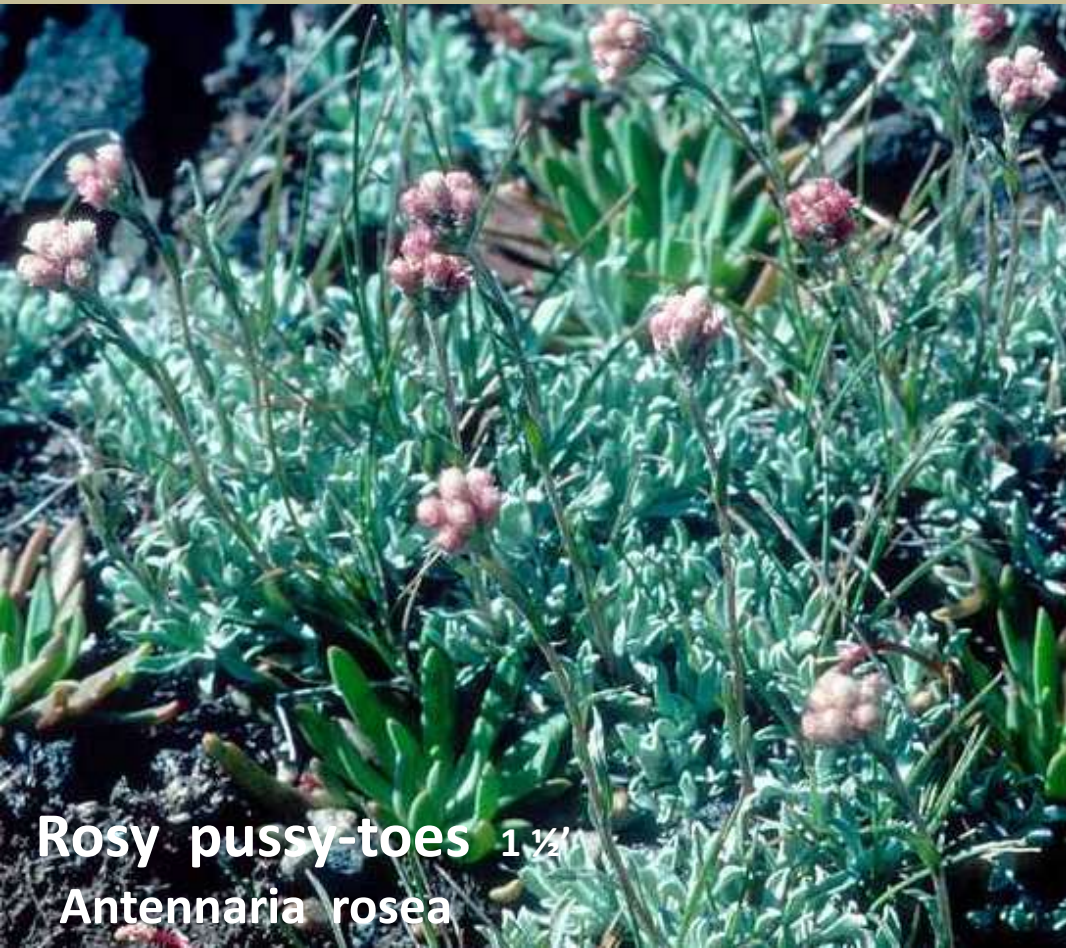
Golden Daisy 6"
Erigeron aureus

Bud Kovalčič

Sunflower Family

Pussytoes (Antennaria)





Rosy pussy-toes 1 1/2"
Antennaria rosea



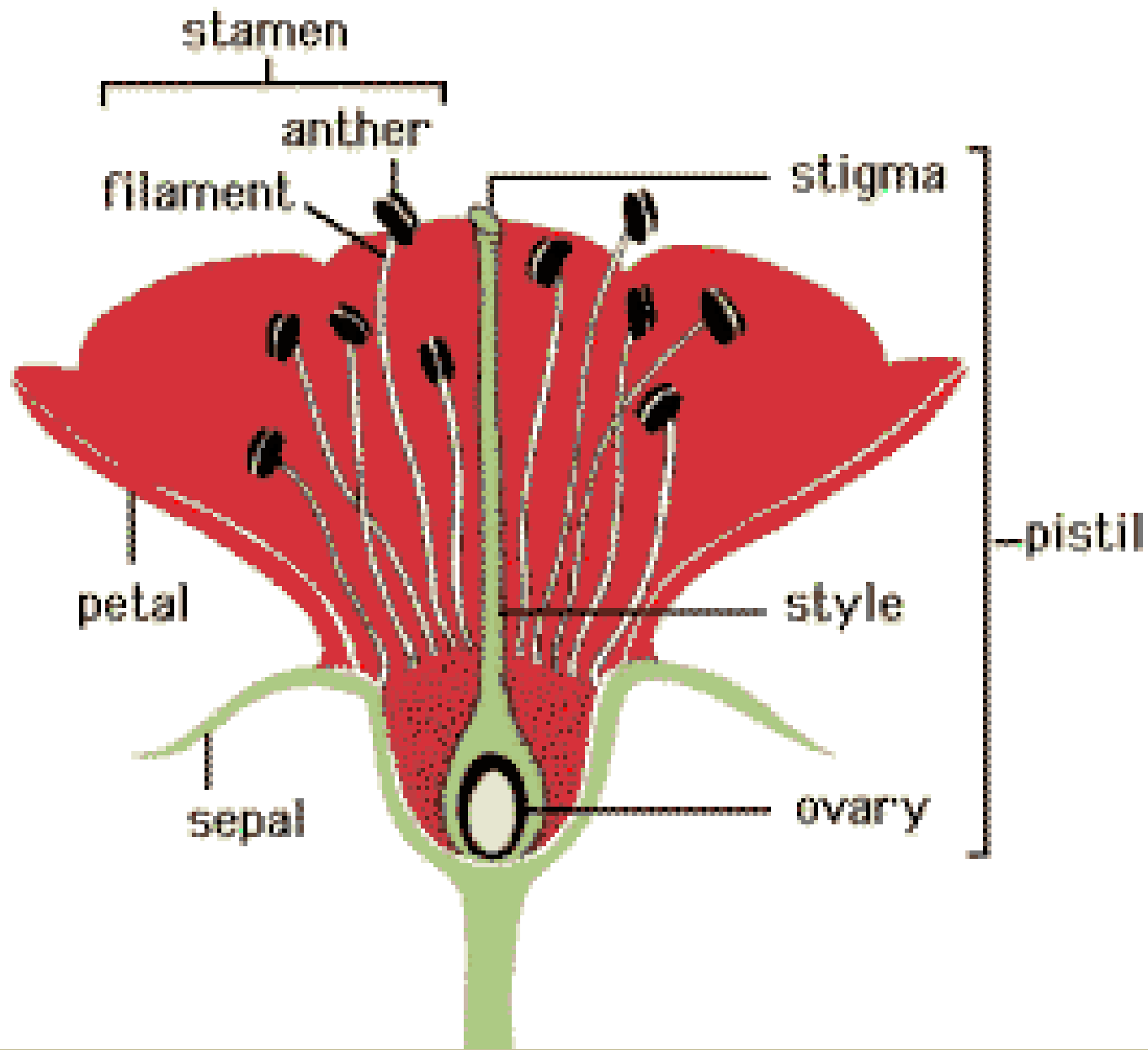
Woolly Pussytoes 8"
Antennaria lanata



Raceme pussy-toes 2'
Antennaria racemosa



Pearly pussy-toes to 1 1/2'
Antennaria anaphaloides

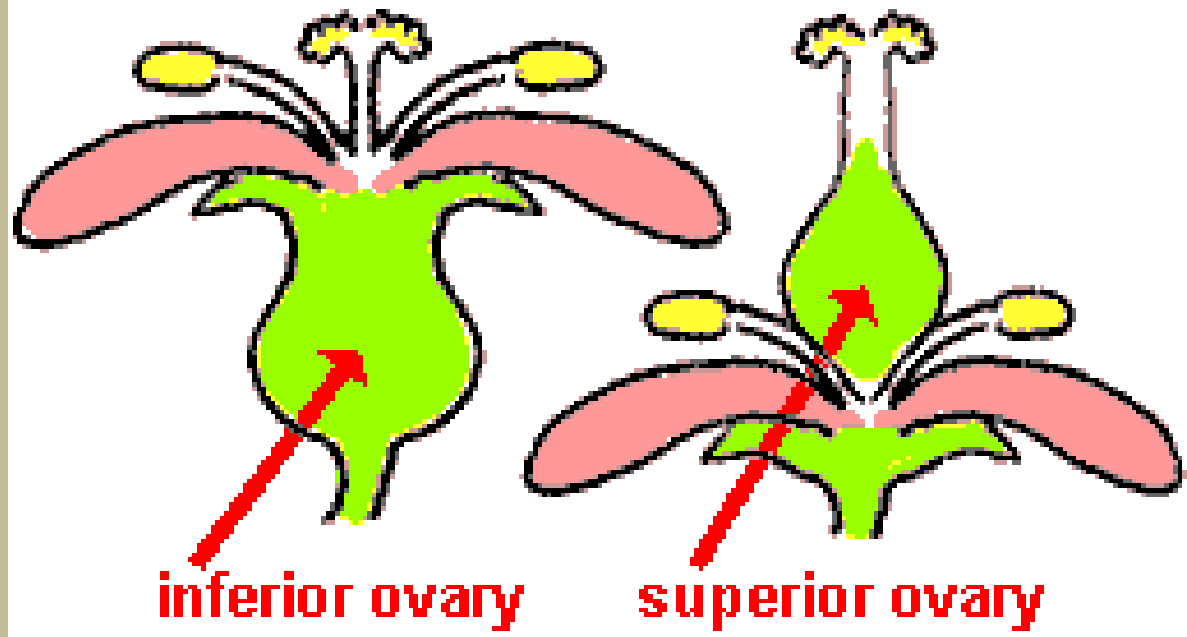




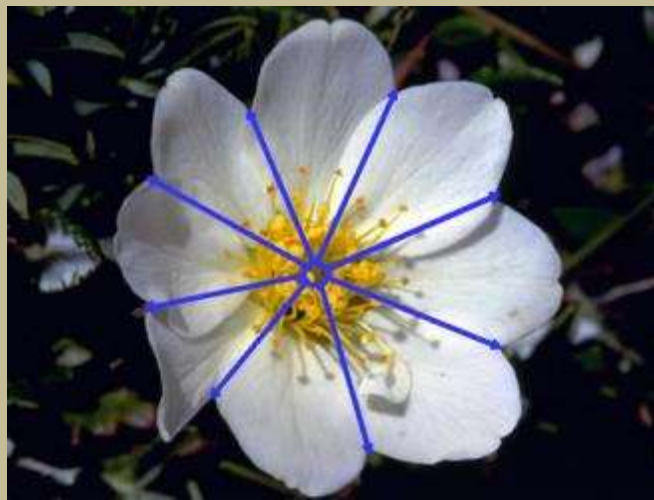
Petals fused



Petals free



Radial
Symmetry



Bilateral
Symmetry





Flowers with central clusters



“Normal Flowers”



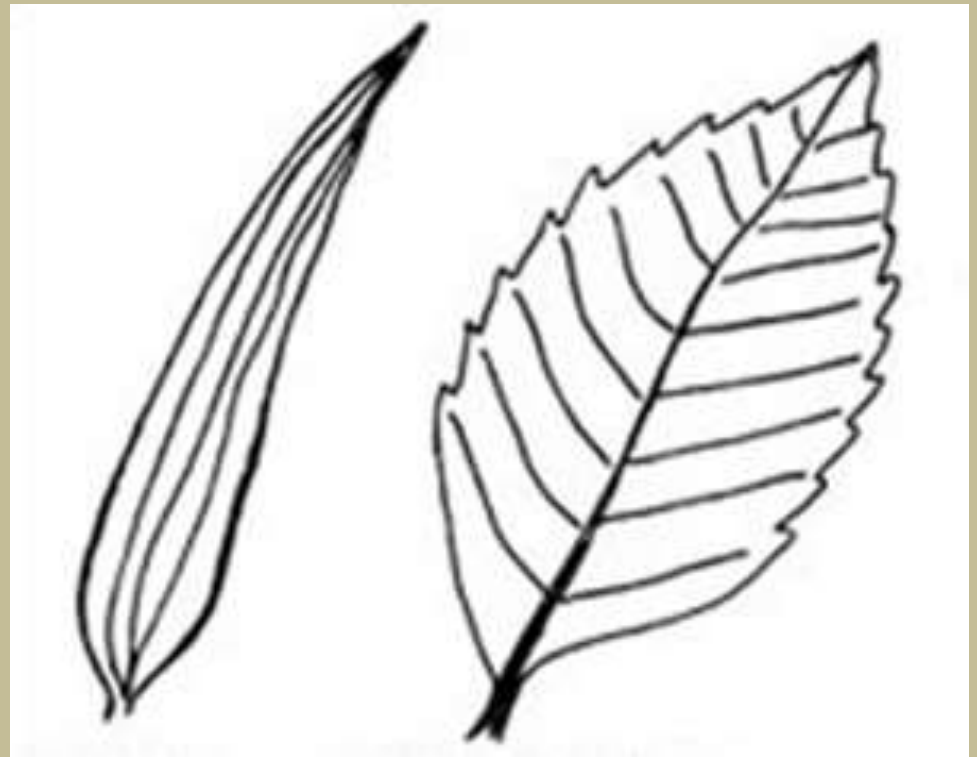
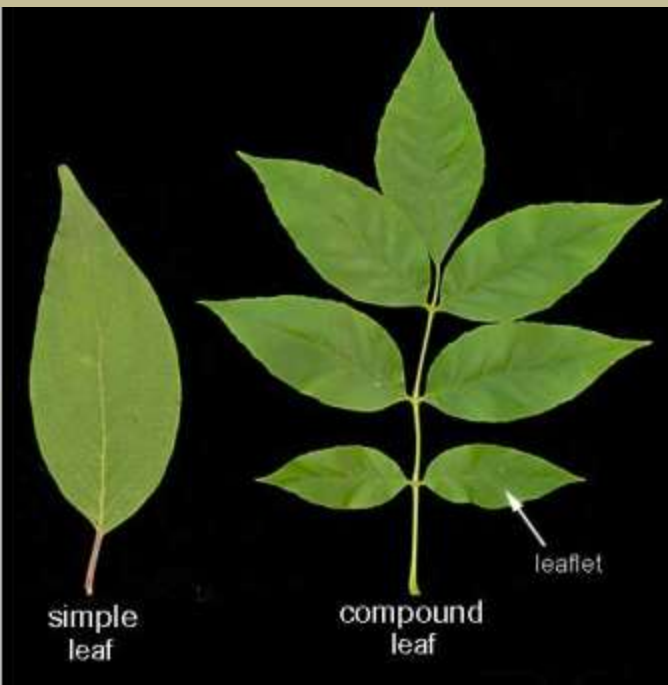


Leaves Opposite

Leaves Alternate

Parallel
Veins

Netted
Veins



spec. #	Scientific name	Common name	ID Gr. 1	ID Gr. 2	ID Gr. 3	ID Gr. 4	ID Gr. 5	ID Gr. 6	ID Gr. 7	App.
375	Asteraceae	Sunflower Family			X					
154	Fabaceae	Pea Family				X				
127	Brassicaceae	Mustard Family		X						
110	Rosaceae	Rose Family			X					
97	Scrophulariaceae	Figwort Family				X				
78	Apiaceae	Parsley Family					X			
78	Ranunculaceae	Buttercup Family			X					
73	Liliaceae	Lily Family	X							
73	Caryophyllaceae	Pink Family							X	
59	Boraginaceae	Borage Family						X		
57	Polygonaceae	Buckwheat Family					X			
53	Ericaceae	Heath Family							X	
52	Saxifragaceae	Saxifrage Family						X		
49	Onagraceae	Evening-primrose F.		X						
48	Lamiaceae	Mint Family				X				
46	Polemoniaceae	Phlox Family							X	
33	Orchidaceae	Orchid Family	X							
26	Portulacaceae	Purslane							X	
23	Hydrophyllaceae	Waterleaf Family					X			
20	Violaceae	Violet Family				X				
18	Grossulariaceae	Currant Family								X
15	Crassulaceae	Stonecrop Family						X		
12	Valerianaceae	Valerian					X			
11	Primulaceae	Primrose Family								X

Flowering parts in 3s (or multiples)

Family Key

Lily, Orchid, & Iris

Leaves with parallel veins

Flowering parts in 4s

Leaves with veins in branching pattern

Evening Primrose
Mustard

Flowering parts in 5s (leaves with branching veins)

Flowers with **bilateral symmetry**

Petals fused

Mint
Figwort

Pea
Violet
Buttercup - some

Petals free

Flowers with radial symmetry

Many **small flowers in tight bunches**

Buckwheat
Parsley
Waterleaf
Valerian
Rose - some

Flowers not in tight bunches

Buttercup
Rose
Sunflower – technically belongs with “Many small flowers in tight bunches”

Flowers with **central clusters** or seemingly so
(more than 10 stamens crowding the center)

Normal flowers (10 or fewer stamens)
(or just use the “handles” to Id. these 7 Families)

Heath
Phlox
Primrose
Borage

Petals fused

Petals free (or nearly so)

Pink
Purslane
Saxifrage



Lily Family

- Flowers: radial
- 6 tepals & 6 stamens

Iris Family

- Flowers: radial
- 6 tepals & 3 stamens
- Leaves: basal in flat plane

Orchid Family

- Flowers: bilateral
- Lower petal forming lip or bowl

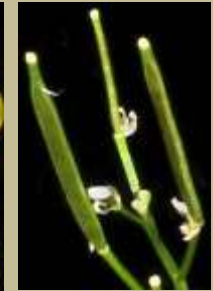
Leaves

Parallel veins

- Lily Family
- Iris Family
- Orchid Family

Flower parts in 3s

Flower parts in 4s



- Flowers: petals 4
- Ovary inferior & elongate
- Leaves: often opposite
- Long seed pods & 4 sections

Evening-Primrose Family

- Flowers: petals 4
- Ovary superior.
- 6 stamens – 4 long, 2 short usually
- Leaves: alternate
- Seed pods in many shapes. 2 sections

Mustard Family

Lily Family



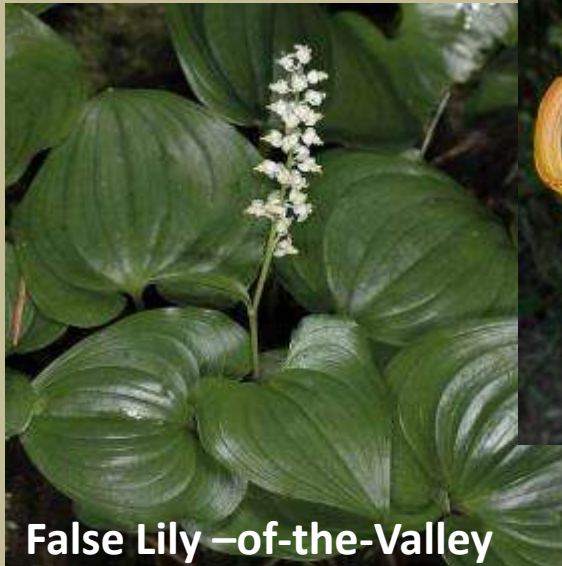
Queen's Cup



Hooker's Fairy Bell



Tiger Lily



False Lily-of-the-Valley



Fawn Lily

Orchid Family



Fairy Slipper



Lady Slipper



Spotted Coral Root



White Bog Orchid



Heart-Leaved Twayblade





Lily Family

Iris Family

Orchid Family

Leaves

- Flowers: radial
- 6 tepals & 6 stamens

- Flowers: radial
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Parallel veins

Lily Family
Iris Family
Orchid Family

Flower parts in 3s

Flower parts in 4s



- Flowers: petals 4
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- Ovary inferior & elongate
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- Long seed pods & 4 sections

Evening-Primrose Family

Evening –Primrose Family



Yellow Willow-Herb



Fireweed



Alpine Willow-Herb

Mustard Family



Draba



Rockcress



Mountain
allflower





Figwort Family

- Flowers: bilateral symmetry
- Petals fused
- Leaves: opposite or alternate

5s Bilateral..... Fused



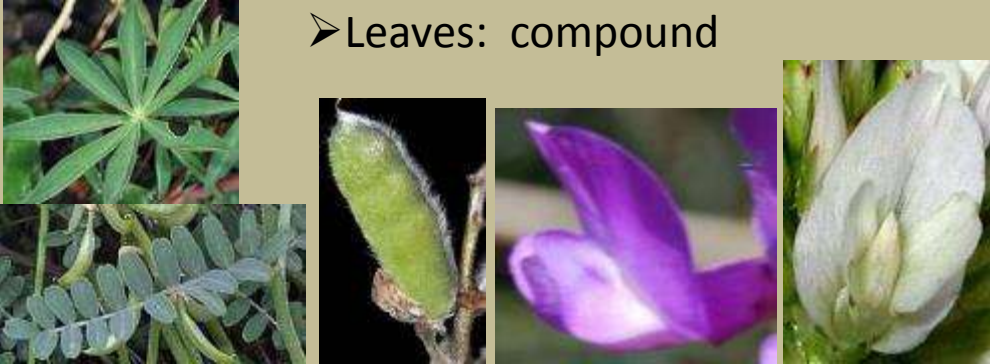
Mint Family

- Flowers: bilateral symmetry
- Petals fused
- Leaves: opposite
- Square stems
- Aromatic usually

5s Bilateral.....Free

Pea Family

- Flowers: bilateral symmetry
- Petals free or nearly so
- Upper petal the largest
- Leaves: compound



Violet Family

- Flowers: bilateral symmetry
- Petals free
- Lower petal the largest
- Leaves: simple





Monkeyflowers



Louseworts



Penstemons

Figwort Family

Figwort Family

Paintbrush



Figwort Family

Paintbrushes (Castilleja)



Leaves

All along stem
Tip lobed or not



General

1 – 1 1/2' tall

Bracts

“Brush” is not flower. The leafy bracts surround flowers & resemble brush dipped in paint. Yellowish or reddish.

Flower

Crowded in axils of showy bracts
Long, tubular with beaklike tip
Often greenish.





Figwort Family

- Flowers: bilateral symmetry
- Petals fused
- Leaves: opposite or alternate

5s Bilateral..... Fused



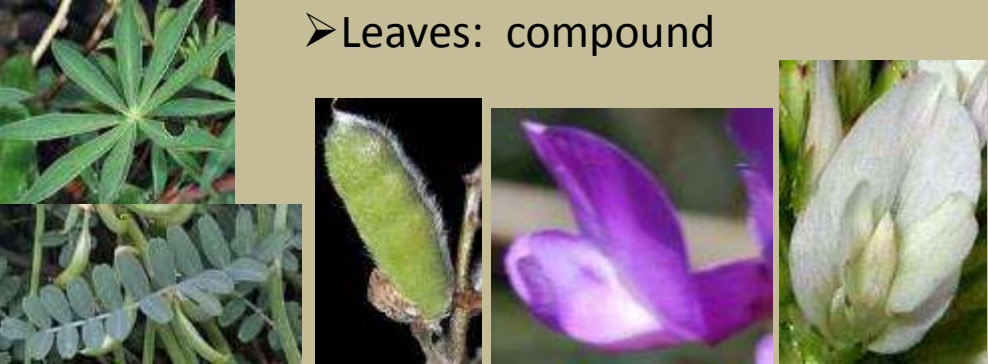
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Lupine



Vetch



Pea Vine





Buckwheat Family

- Flowers: small & in tight bunches
- 6 tepals form small flowers
- Leaves: basal or on stem
- Leaves entire & usually not toothed



Parsley Family



- Flowers: small & in true umbels
- Leaves: usually compound & often fern-like or carrot-like

5s Radial Bunches

- Flowers: small - forming bottlebrush or oval clusters
- Stamens long exerted
- Leaves: usually pinnately compound

Waterleaf Family

(In Borage Family now)



- Flowers: small & in dense clusters
- Petals fused into narrow 5-lobed tube
- Small family

Valerian Family





Northern Buckwheat



Round-headed
Buckwheat



Sulfur
Buckwheat

Buckwheat Family



Fern leaf Desert Parsley



Big Seed Lomatium



Barestem Desert Parsley

Parsley Family



Buttercup Family

- Flowers: petals 5 to 12
- Flowers radial or bilateral
- Flowers simple to elaborate
- Leaves: compound or deeply divided



Rose Family

- Flowers: petals 5
- Flowers radial
- Leaves: often oval & serrated



Sunflower Family

- Flowers: appear many "petaled"
- Central cluster present or appears to be absent entirely.
- A compound flower: tiny flowers with 5 fused petals. All flowers packed into a single head.

**5s Radial Not bunches
Central clusters**



Buttercup Family

Western Pasqueflower



Columbine



Delphinium



Monkshood



Buttercup Family

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Rose Family

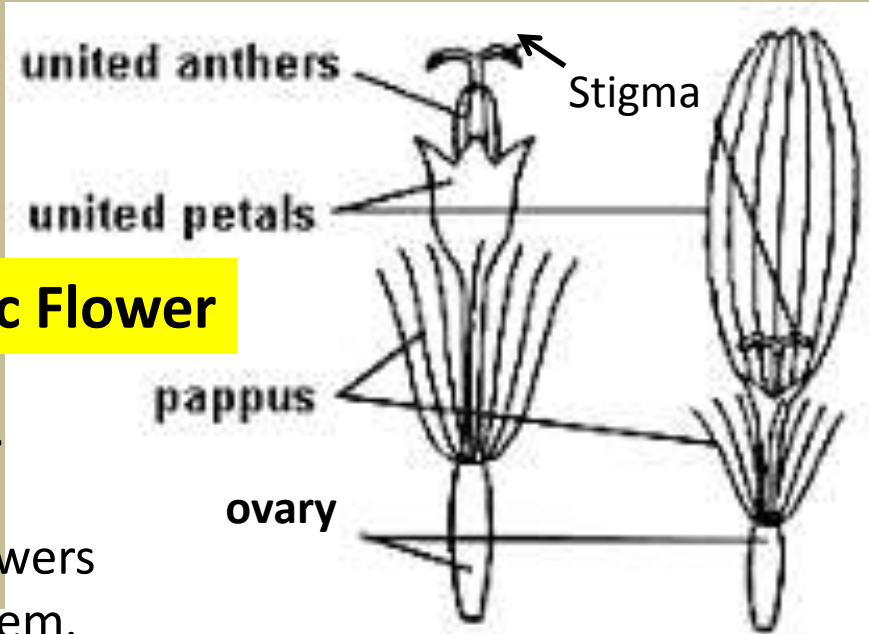
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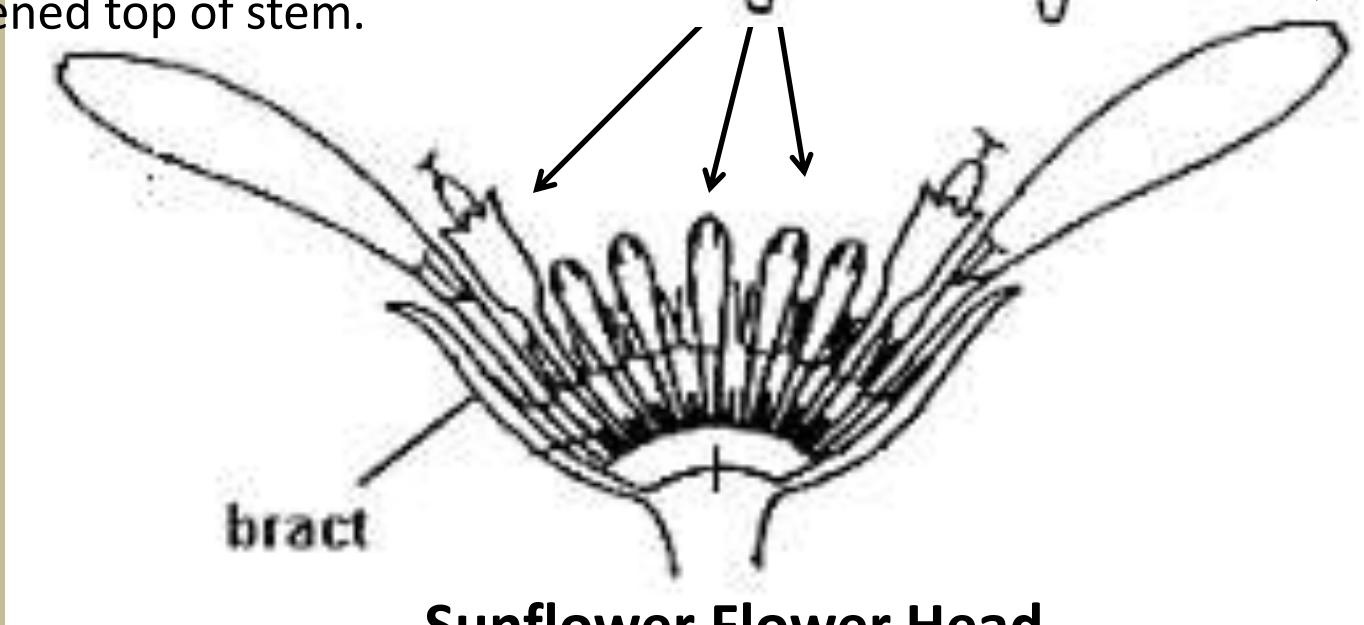
**5s Radial Not bunches
Central clusters**



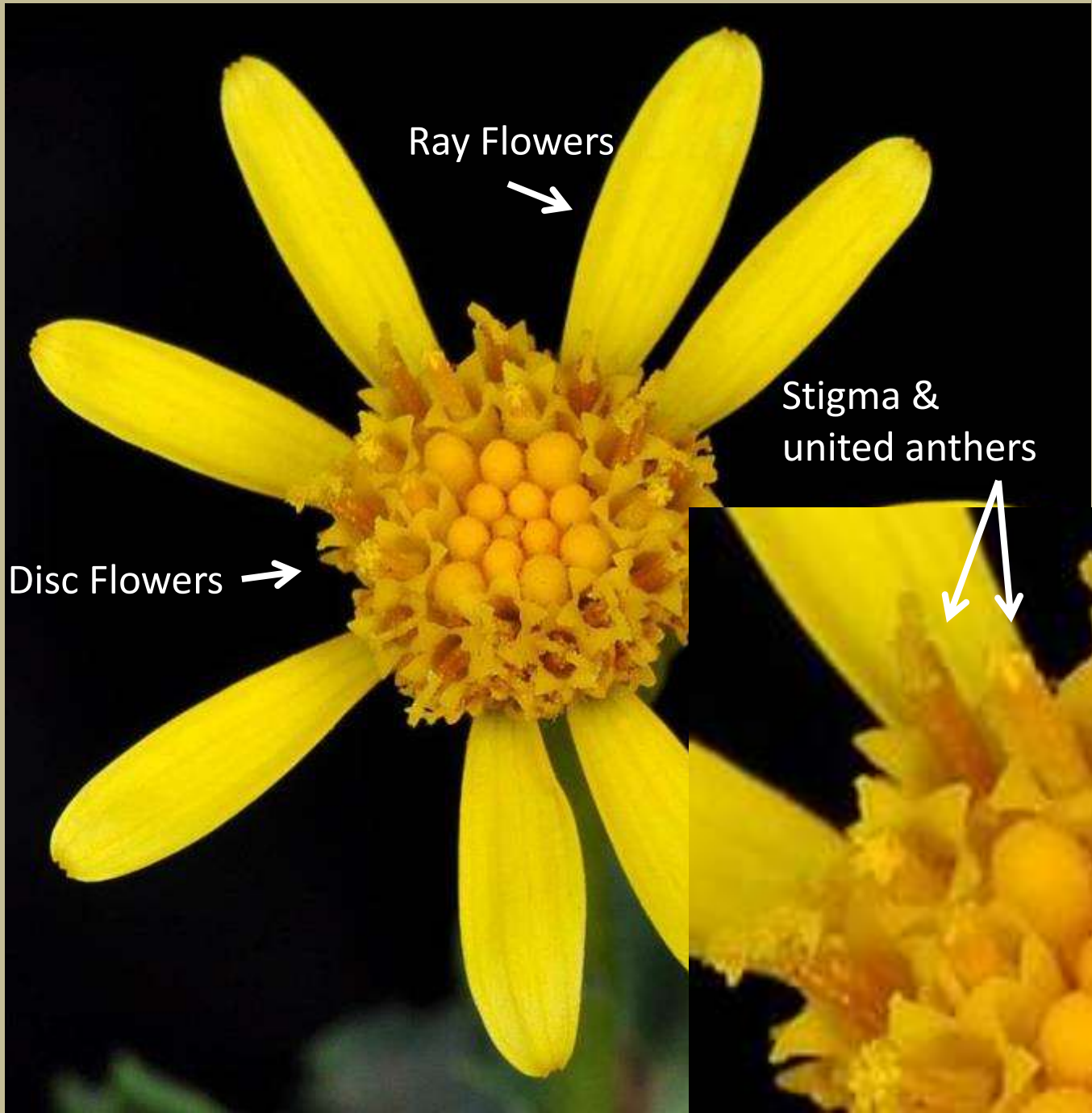
Disc Flower

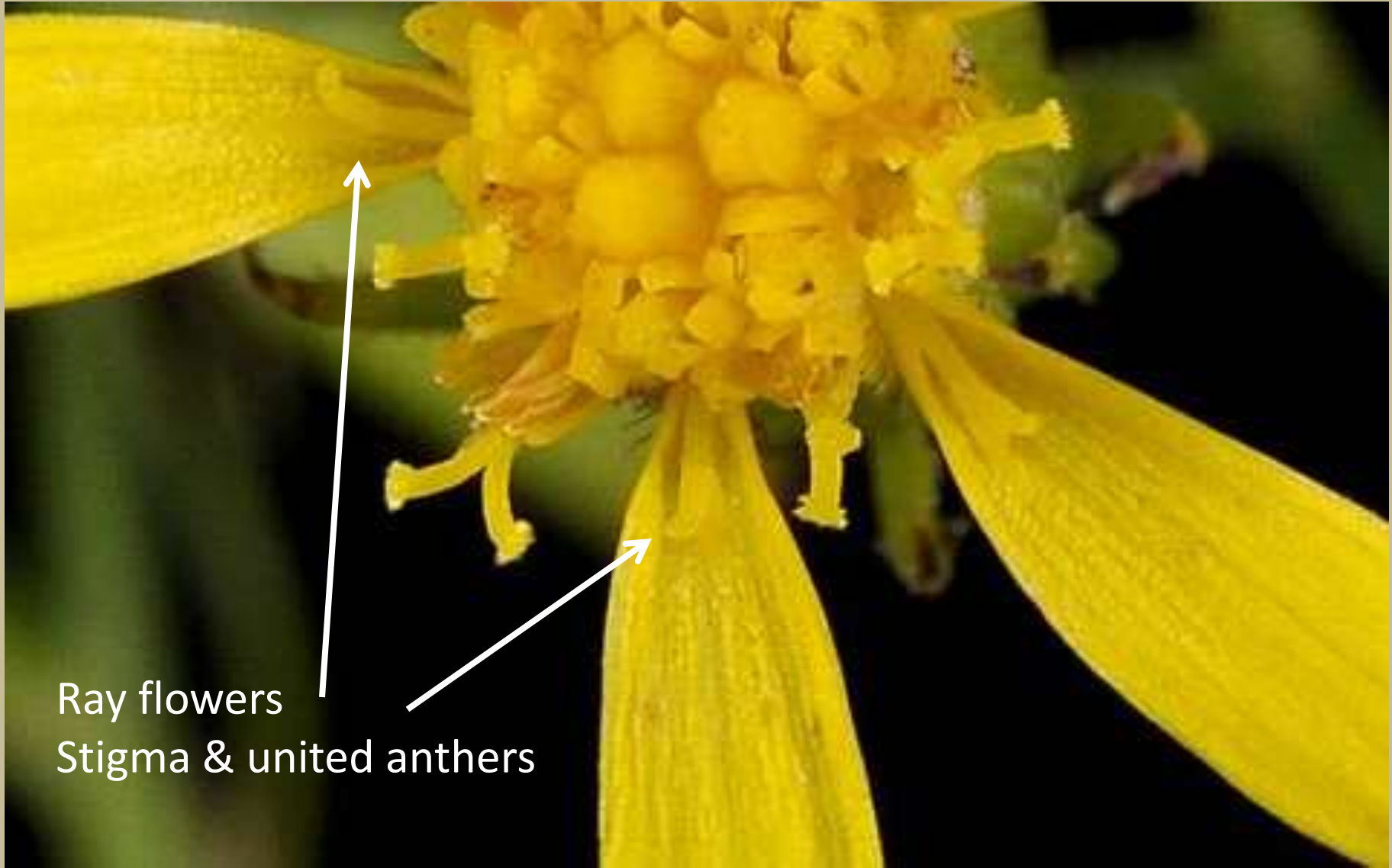
Ray Flower

Headlike flower clusters.
Not a single flower.
Numerous individual flowers
on broadened top of stem.



Sunflower Flower Head





Ray flowers

Stigma & united anthers



Heath Family

- Flower: Petals fused into bells or urns

Primrose Family

- Flower: petals fused & sometimes reflexed
- Leaves: often basal



Phlox Family



- Flower: petals fused forming a tube with nearly perpendicular lobes
- Leaves: often narrow or like ladder

5 Radial Not bunches Normal Flowers Petals Fused

Borage Family

(Includes Waterleaf now)

- Flower: petals fused
- Some flowers with central ring
- Fiddlenecks often
- Plant often hairy



Heath Family
Bell or urn : Saprophytes



Indian Pipe

Flower Bell

Flower Urn

Leaves

Scales like

White, reddish, yellowish

Microscopic

Heath Family
Bell or urn : Heathers



Leaves

Needle like or cork like

Flower

Urn or bell

White, pink, yellow

General:
Evergreen shrub 1-2 ft

Heath Family
Bell or urn : Blueberries



General:
Med shrub 2-6 ft to 1-2 to 3 feet

Leaves

Dark

Flowers

All urn

Fruit:
Berries bluish to black or red

Heath Family
Bell or urn : Kinnikinnick



Flower

Urn

Leaves

Dark & leathery

General:
Dwarf or dense shrub...

Heath Family
Bell or urn : Salal



General:
Large green dense shrub -
Medium tall

Leaves

Dark, leathery

Berries

Purple to black

Flowers

Urn

Heath Family
Open : Wintergreen



General:
Shrub
Woody based

General:
Shrub
5-10' - 8"

General:
Flower above the shrub
Bell or open almost bell like



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Phlox Family

Phlox



Long leaf phlox





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- Some flowers with central ring
- Fiddlenecks often
- Plant often hairy



Northern Cryptantha



Borage Family



Bluebells



Fiddleneck



Purslane Family

- Flowers: petals free, pink strips often, 2 sepals
- Leaves: often succulent



Pink Family

- Flowers: petals free, often notched or divided
- Leaves: opposite, often narrow & borne on enlarged nodes

5s Radial Not bunches
Normal Flowers Petals Free

Saxifrage Family

- Flower: petals free, stigmas 2 & often flaring apart
- Leaves: often basal



Purslane Family



Columbia Lewisia

Western Spring Beauty

Siberian Minors
Lettuce



Sedum Family

- Small very succulent plants with short fleshy leaves
- Flowers: petals free & yellow



Appendix Unique Plants

Current Family

- Medium sized shrub to about 6'
- All have maple shaped leaves
- All have berries
- Flowers: petals fused





Mustard Family

Dagger-pod

4 tall stamens
2 short stamens

Seed pods
Fruits mature into
Dagger-like pods.





Lily Family



Queens Cup
(Clintonia)



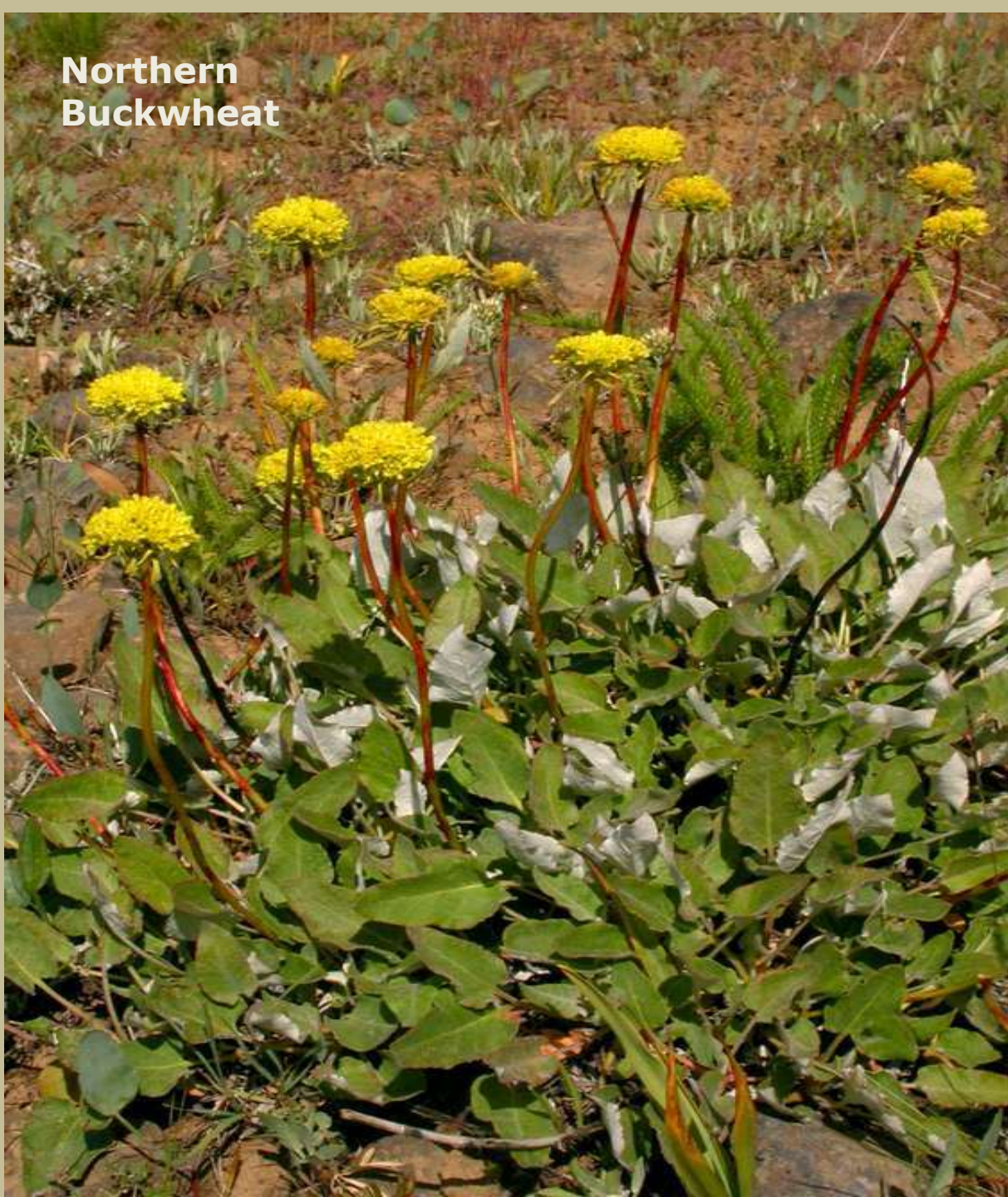
Rose Family

Rubus - Salmonberry





**Northern
Buckwheat**



**Buckwheat
Family**





Figwort Family



Davidson's Penstemon



Orchid Family



White Bog orchid





Parsley Family

Desert Parsleys





Mint Family

Skullcap (Scutellaria)





Saxifrage Family



Spotted Saxifrage





Borage Family

Bluestickseed (Hackelia)



Hairy

Stems & leaves.
Not super obvious



Flower

Short flaring tube.
Central colored ring.

No fiddlehead

General:
3 to 4' tall





Heath Family



Indian-Pipe

Flower
Bell



Pinesap



Flower
Urn



Pinedrops

Saprophyte: parasitize fungi. Live on dead or decomposing matter.

Leaves

Scalelike

White, reddish, yellowish



Phlox Family

Collomia (several species)



Flower

Long narrow tube
with perpendicular lobes



Leaves

Long & narrow

General

To 3' tall



Large-flowered Collomia



Purslane Family

Lewisia

Flower

Often pink stripes.
2 green sepals.

General

More or less succulent.
Smallish plants



Alpine Lewisia



Columbia Lewisia



Pink Family

Chickweed (Cerastium)

Flower

Petals often notched or divided.
Obvious superior bulbous ovary.

Leaves

Opposite & narrow
Borne on enlarged nodes



Field Chickweed



Sunflower Family

Asters



Cascade Aster





Buttercup Family

