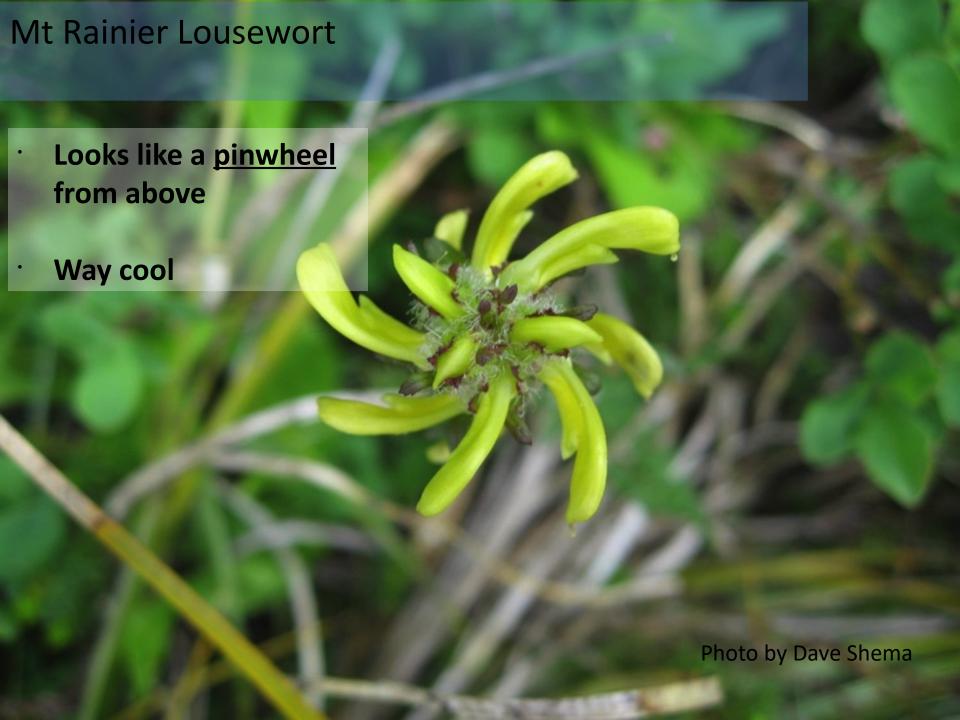


### **Bracted Lousewort**

- Leaves are <u>ferny</u> looking
- Tallest lousewort in the NW, 1'-4'
- · Common













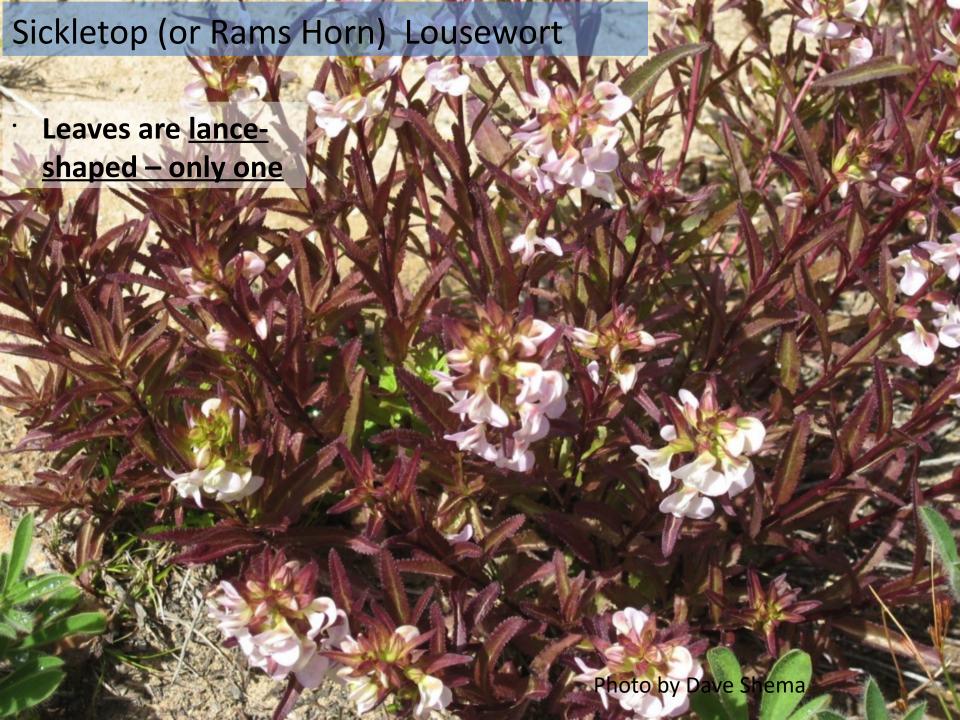
### Bird's Beak Lousewort

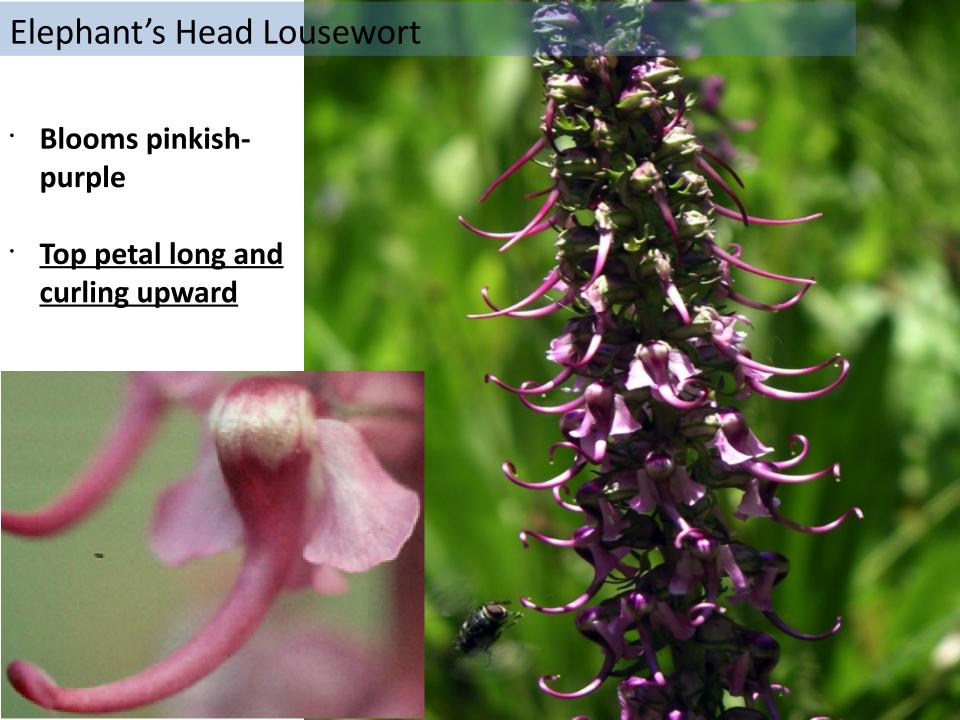
- Blooms near <u>top</u> of stem
- Leaves near <u>base</u> of plant



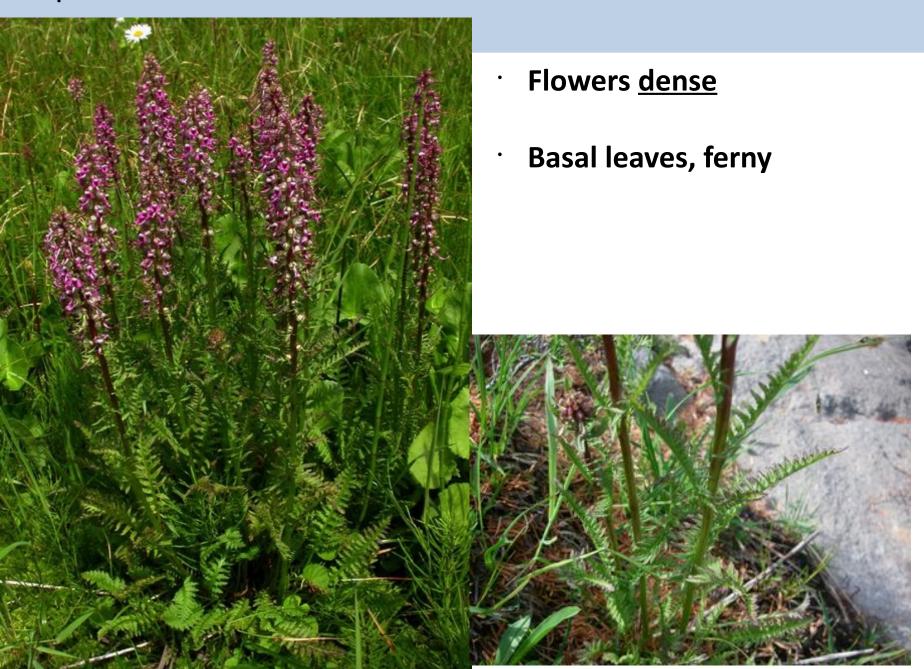
# Sickletop (or Rams Horn) Lousewort







## Elephant's Head Lousewort



# Figwort (Broomrape) Family Paintbrushes (Castilleja)



### Leaves

All along stem

### General

 $1 - 1 \frac{1}{2}$  tall

#### **Bracts**

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

**Flower** 

Tip lobed or not Crowded in axils of showy bracts. Long, tubular with beaklike tip Often greenish.

**Indian Paintbrush** or Castilleja are also partially parasitic on other plant roots---hemiparasitic.

The <u>flowers</u> of Indian paintbrush are <u>edible</u> and sweet, and were consumed in moderation by various Native American tribes as a condiment with other fresh greens.

However, these plants absorb and concentrate <u>selenium</u> in their tissues from the soils in which they grow, and can be potentially very <u>toxic</u> if the <u>roots or green parts</u> of the plant are consumed. So, you need to be confident of the actual edible part before eating.

<u>Hemiparasitic</u> – a green plant that obtains nutrients via parasitism, but also manufactures its own food through photosynthesis.

# Several types of Paintbrush (species & subspecies)

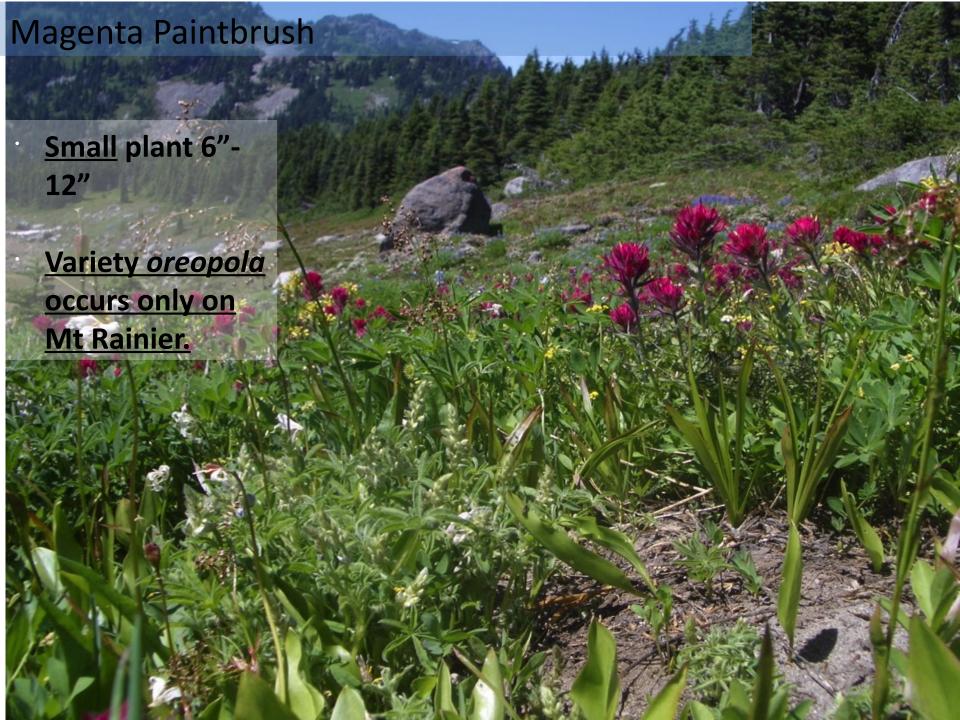














# Figwort (Lopseed) Family Monkeyflower (Erythranthe)



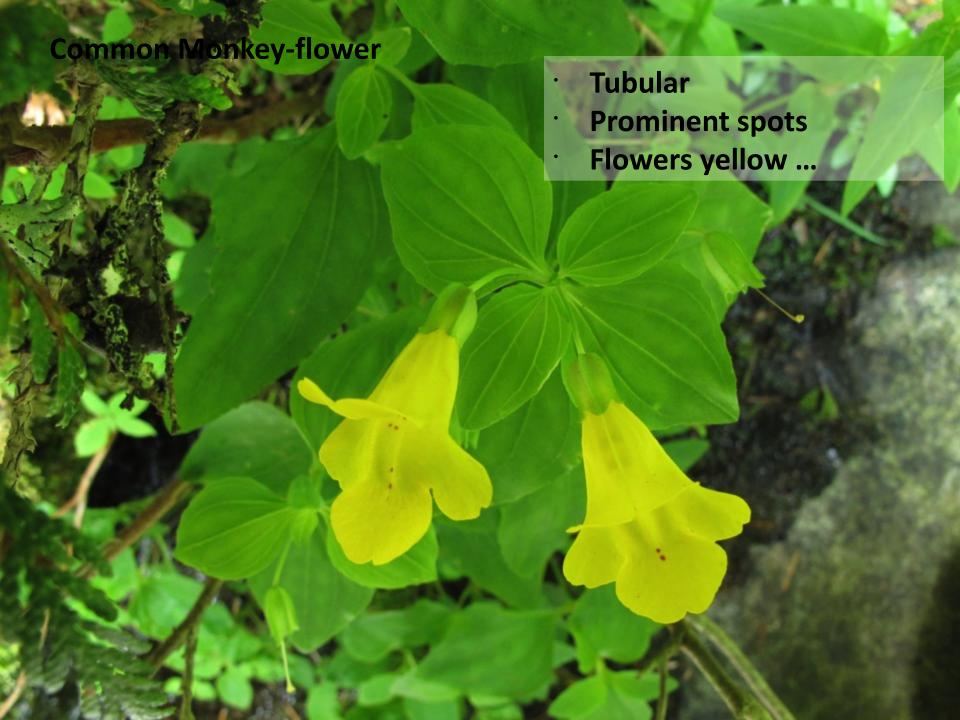


Flower
Yellow or pinkish.
"Ahhhh" with
tongue out.



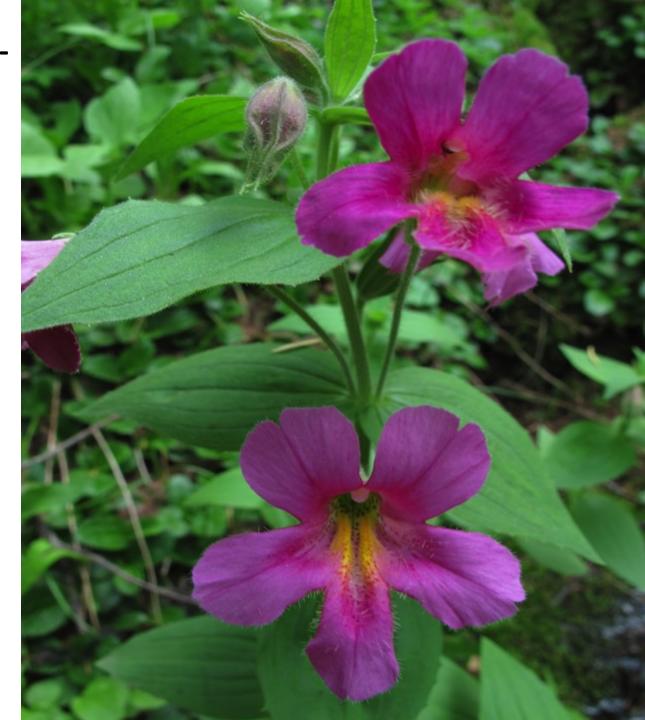
Monkeyflowers are a small group, concentrated in two centers of diversity, one in Australia, the other in western North America.

- Members of this group occur in <u>diverse habitats</u> including deserts, river banks and mountains.
- Mostly <u>wet, wet, wet</u>.
- Bearing tubular, bilaterally symmetric flowers---2 upper
   3 lower



## Lewis's monkey-flower-Erythranthe lewisii)

... and pink



# Figwort (Plantain) Family Penstemon (Penstemon)



### **Penstemon**

- · 250 species in North America-They are <u>difficult to identify.</u>
- Native Americans used penstemon roots to relieve toothache.

**Several types (species) of Penstemon** 







Coast Penstemon







# Figwort (Plantain) Family Speedwell (Veronica)



#### General

Erect . <u>4-8"</u> Wet areas .

#### **Flower**

More <u>weakly bilateral</u>.
4 lobed. 2 stamens.
Generally, <u>long stamens & pistil.</u>

#### Leaves

Opposite.

Ovate generally.



# Saxifrage Family (5) Leaves



Medium sized & broad shaped

### Leaves

### **Clearly basal**



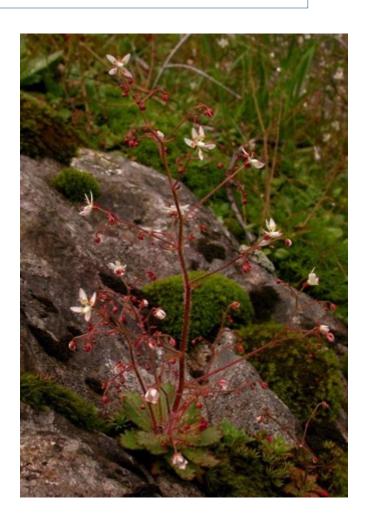
or tiny & linear

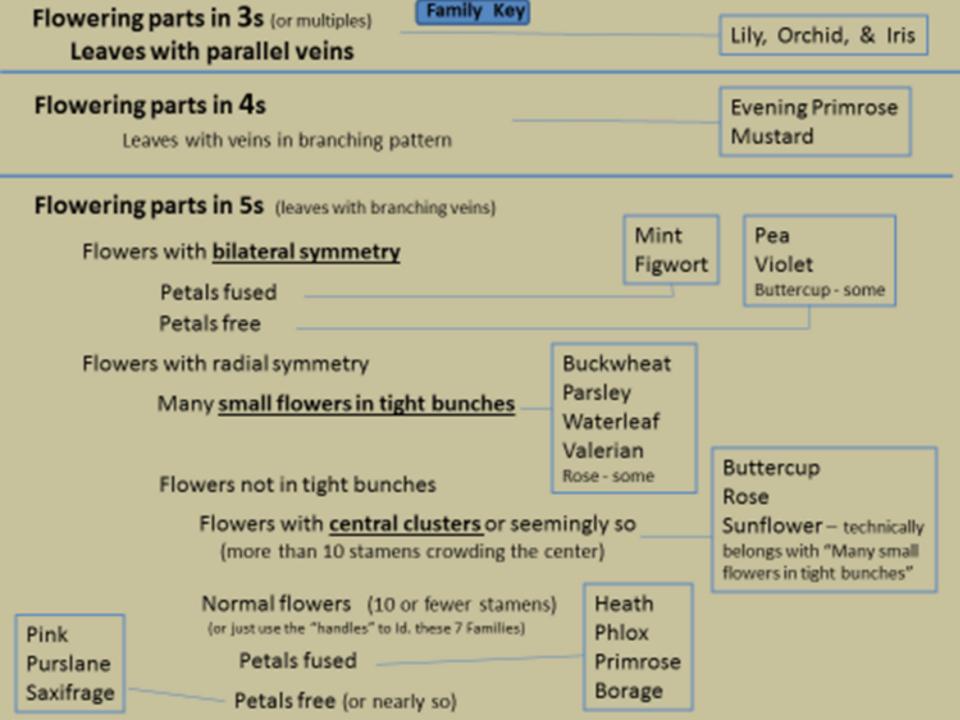
# Saxifrage Family Flowers



Most often in <u>clusters</u>, loose or tight

Small. White (usually).





# Rusty Saxifrage 1+'

- Anthers have rusty/orange tips
- Petals have <u>2 yellow</u><u>spots</u>
- Flowers <u>irregular</u>---3 upper petals and 2 lower.





## **Leatherleaf Saxifrage**

Tough evergreen leaves that form rosette at base of plant

Stems are reddish

Congested fl. head

Fruits are purplish red

 Found in streambanks, flushes, seepage areas



# Fringed Grass of Parnassus)

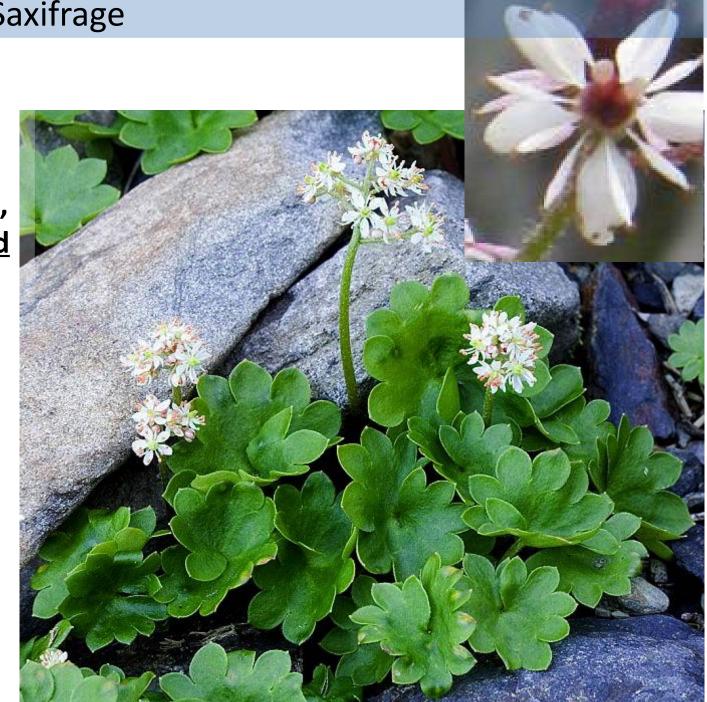


- Broad, <u>kidney-shaped</u>
   untoothed leaves
- · Single flower on stalk



# Nelson's Brook Saxifrage

- Flowers in open clusters
- Leaves roundish,coarsely toothedall around



# Family: Rose Family (5)

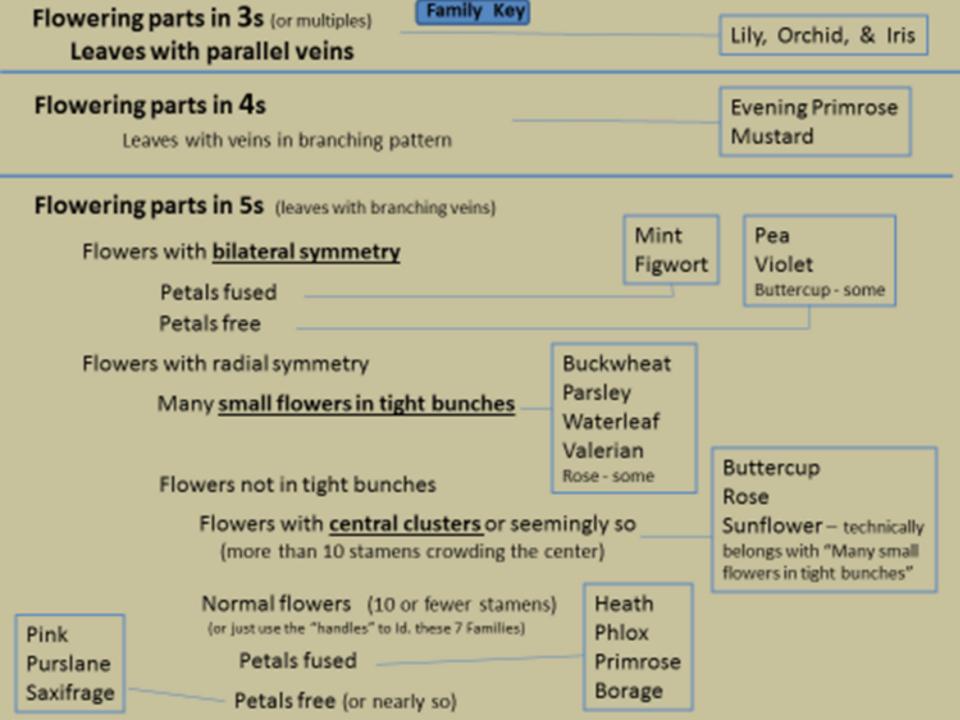
We have already discussed the Rose Family in past classes. Our intent here is to introduce

you to some of the genus' that are unique to the alpine and sub-alpine areas.

#### Partidgefoot Rose Family

- <u>Mats</u>
- Upright stems
- White flowers in dense spikes
- Found where snow persists





Fan-leafed Cinquefoil Rose Family

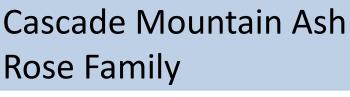
- Low perennial
- Flowers yellow (not shiny).
  Leaves a little like a

  strawberry leaf
- Subalpine meadows, stream banks and seeps



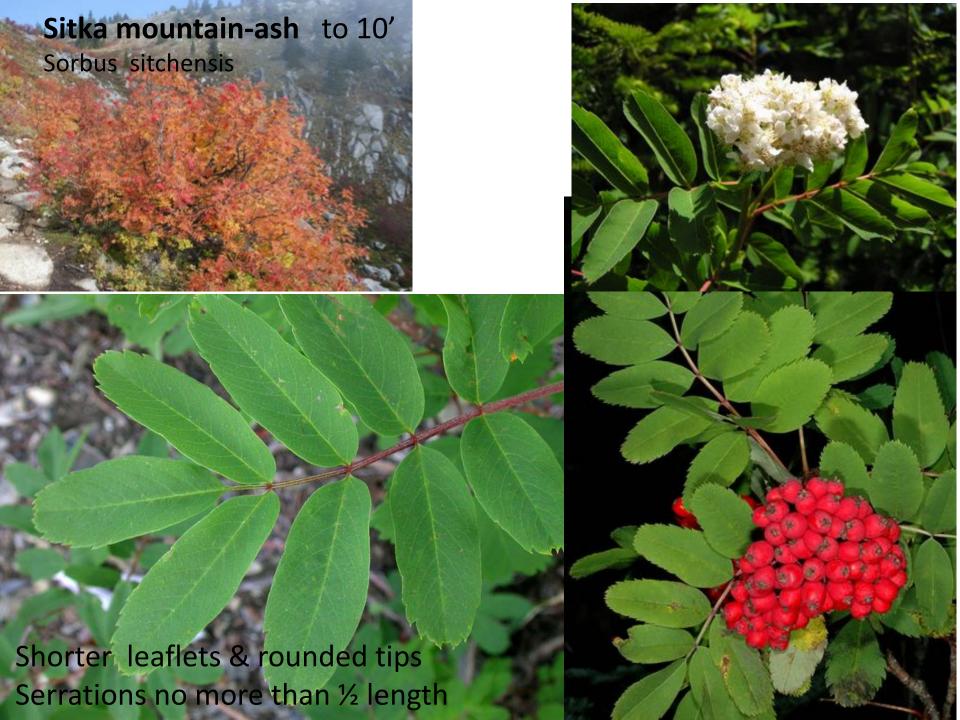
# Subalpine Spirea **Rose Family**

- 1-4 ft shrub
- Flowers, rose-pink in showy flattopped clusters **Alternate leaves** ovals serrated ½ length

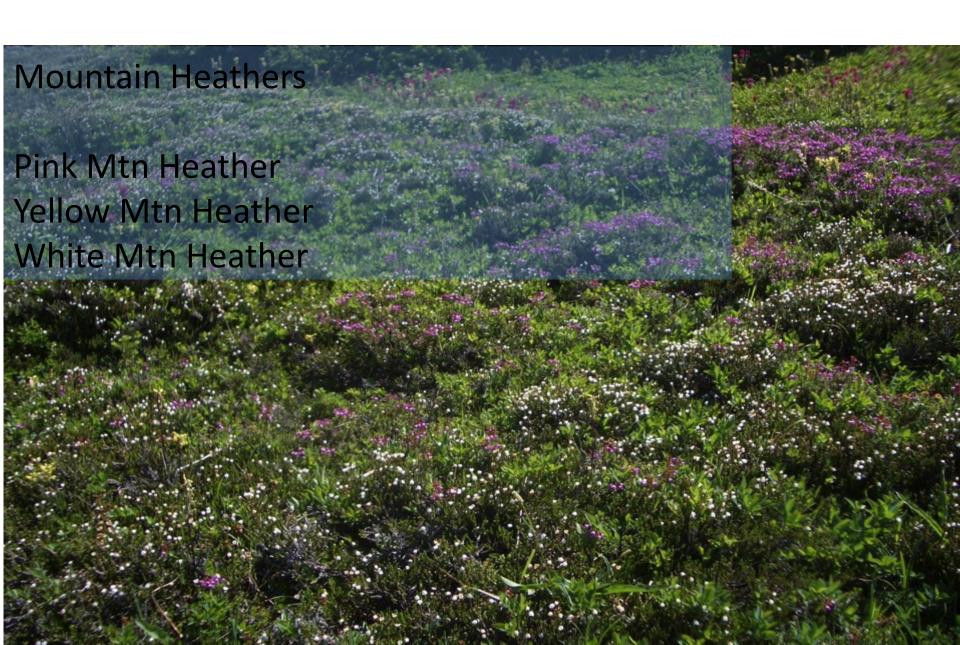


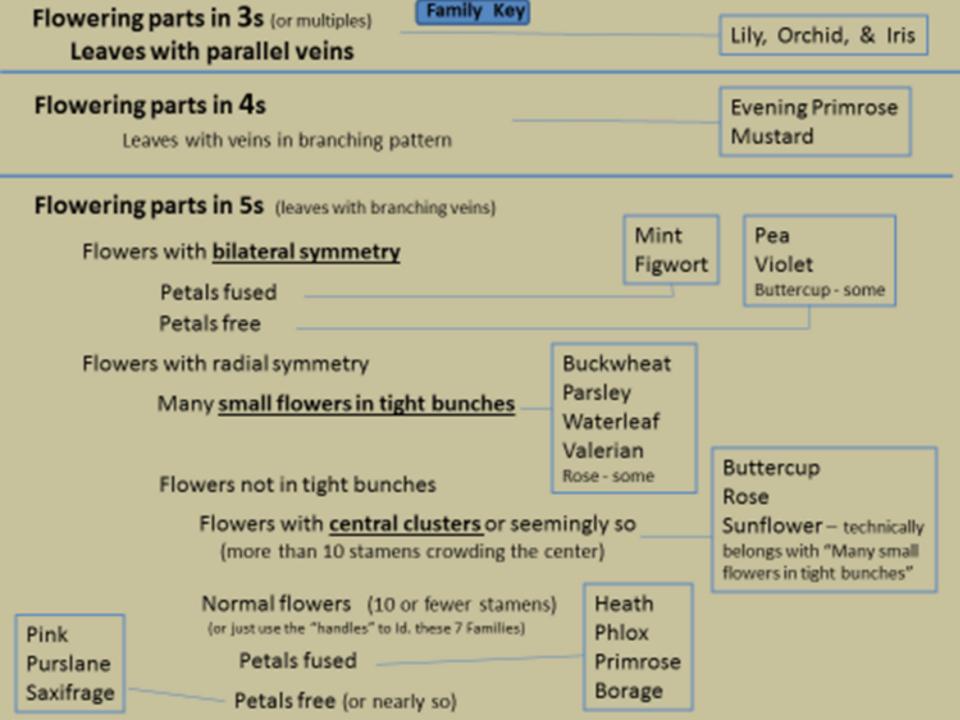
- Large deciduous shrub 16 ft
- 9-17 leaflets that are <u>toothed</u> along the full length and <u>sharp pointed.</u>
- White flower cluster.
- Red-orange berries in the fall





### Family: Heath Family (4)

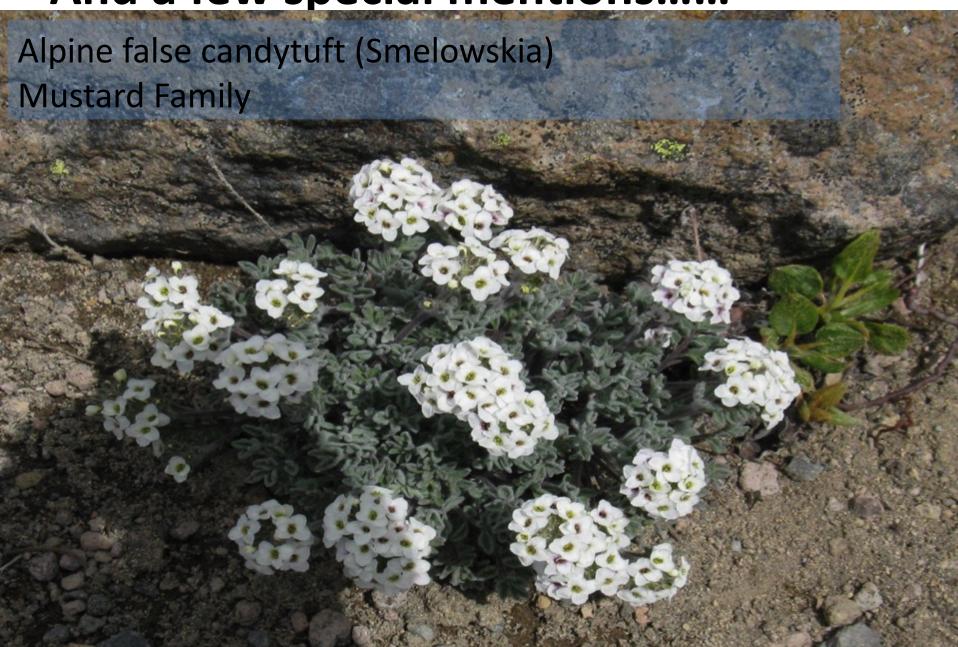








And a few special mentions.....

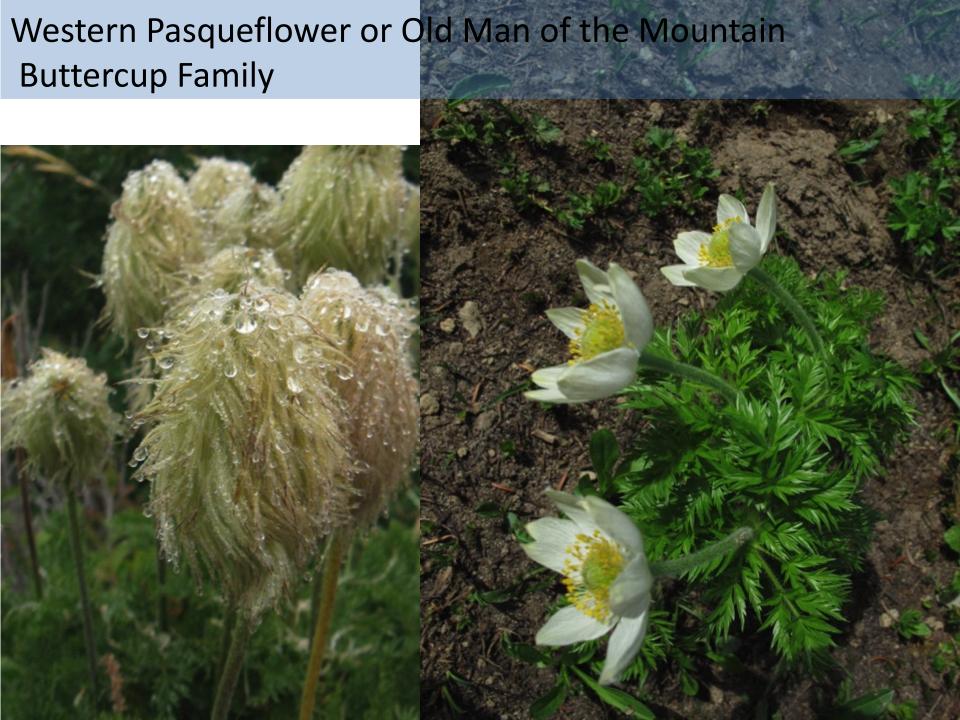




Tongue-Leaf Rainiera Aster Family

Found only at Mt Rainer Disc flowers only







# Marsh Marigold Buttercup Family





