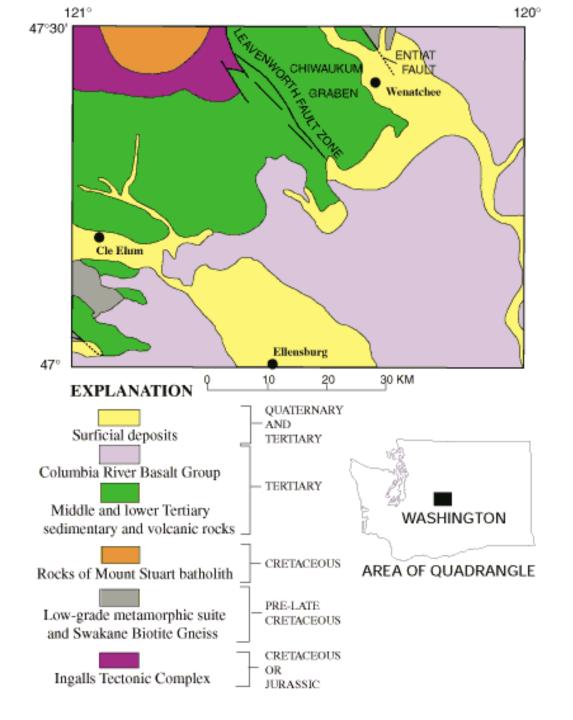


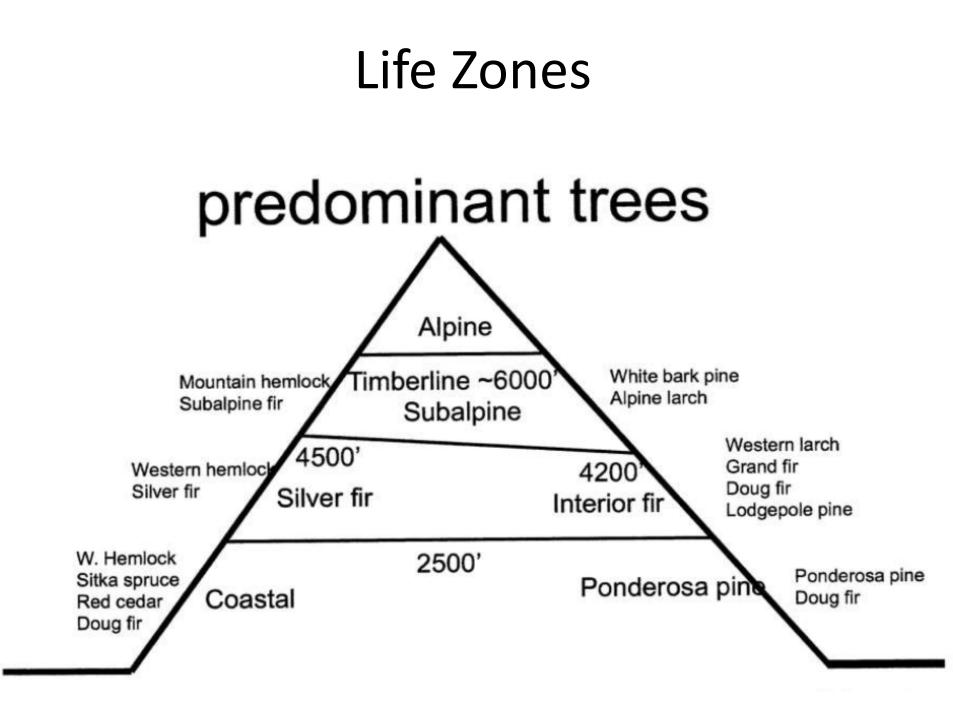
he Wenatchee Mount

in the rain shadow of the main Cascade Range Between US-2 and I-90 Home to Mt. Stuart Full of great wildflower displays Contain many serpentine areas Have many rare and endemic species of wildflowers



Serpentine





A hike in Esmerelda

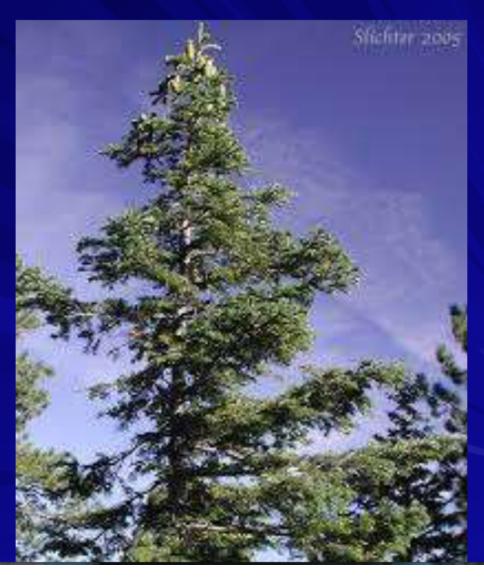
Basin

Mammals Hoary marmot (or is it other marmot) Blacktailed deer Pine marten

Rattlesnake Garter snake

Silver Fir





(E) Grand Fir







Family – LilyParallel veinsAvalanche LilyGlacier LilyHave 3 petals, 3 sepal,
and 6 stamens



Family – Lily

Corn lily (false hellebore) Beargrass





Orchid family

- Parallel veins
- Bilateral symmetry flowers
 - Lowest petal forms a lip
 - Upper petals often form a hood



Calypso Orchid

Western Coralroot



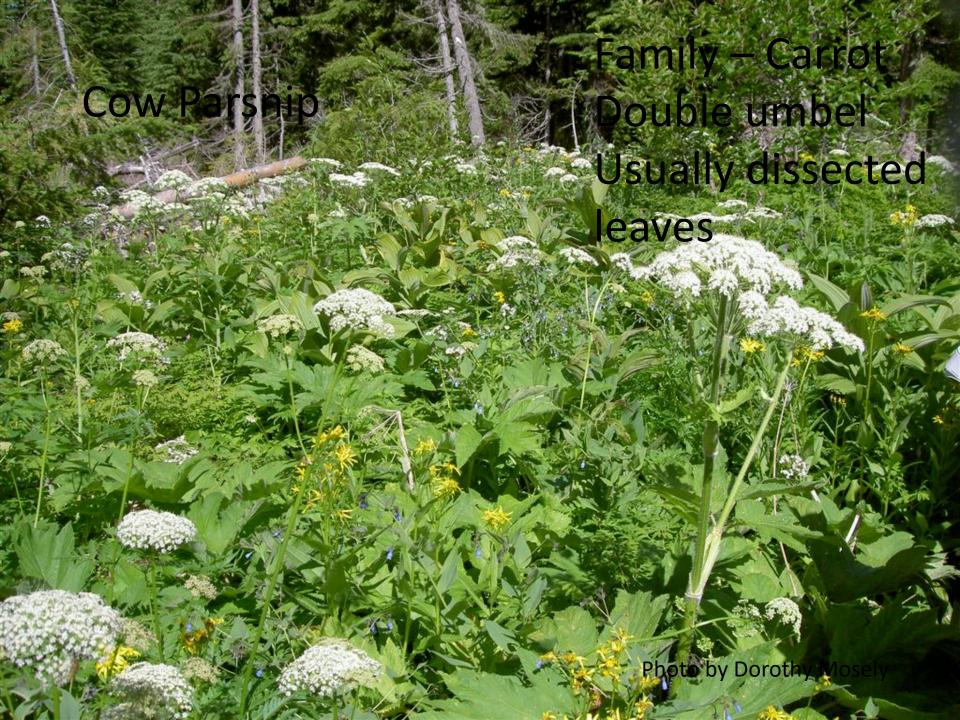
ening primrose family pine willowherb

Wood Violet

Family – Violet 5 petals free Bilateral symmetry

Family - Violet

Goosefoot Violet



Brandegee's Desert Parsley

Family - Carrot

Photo by Virginia Tripp

Usually radia symmetry

ami

Globeflower

Family - Buttercup

Photo by Don Schaechtel

Family – Sunflower/Aster (Asteraceae)

 Flowers have a composite head – with ray flowers and disk flowers.







Silverback Luina

Family -

ste

Photo by Margaret Amory

Arrowleaf Balsamroot

ste

04

Rosy Pussytoes

Family - Aster



Spreading Plox

Family – Phlox 5 petals Fused tube Perpendicular flower top

Photo by Dave Sh

Family – Saxinage 5 petals Basal leaves Many small flowers on stalk with few leaves

Brook Saxifrage



Tall Bluebells

Family - Borage Fused petals Flowers on fiddlehead Eye looking back in cente

Photo by Gini Tripp

Jessica's Stickweed

Photo by Gini Tripp

Family - Borage



Alpine Lupine

Family - Pea

Family - Heath Bells and urn 5 petals fused

Jon Schaecht

White Heather

Family - Heath

Photo by Hannchen Menck

Pinemat Manzanita

Family - Heath



Photo by Virginia T

Family – Rose (Rosaceae)

- Lots of common plants in the Rose family
 - Apples, pears, peaches, almonds, raspberries, strawberries, and roses!
- · Compound, alternate, leaves
- 5 petals, 5 sepals, and 15+ stamens
- Significant contributors to soil nitrogen thanks to Nitrogen-fixing *Frankia* bacteria.

Nootka Rose

Family - Rose

Photo by Michale Kelly

Shrubby Cinquefoil Family - Rose

Photo by Don Sch

ascade Mountain Ash

Ser.

Family - Ro

1991

Photo by Virginia Tripp

Western Spring Beauty

Family - Miner's Lettuce Was purslane 5 petals - free

Photo by Dave Shema



Columbia lewisia purslane famiuly

Family - Spring-beauty

Alpine Spring Beauty

Photo by Gini Tripp

Jeffrey's Shooting Star

Family - Primrose Fused petals Bent 'backwards'

Photo by Dave Shema

Lanceleaf Stonecrop

Family - Stonecrop Or sedum Generally yellow flowers Succulent leaves

Photo by Dave Shem

Parsley Fern – rock outcroppings



Fragile fern



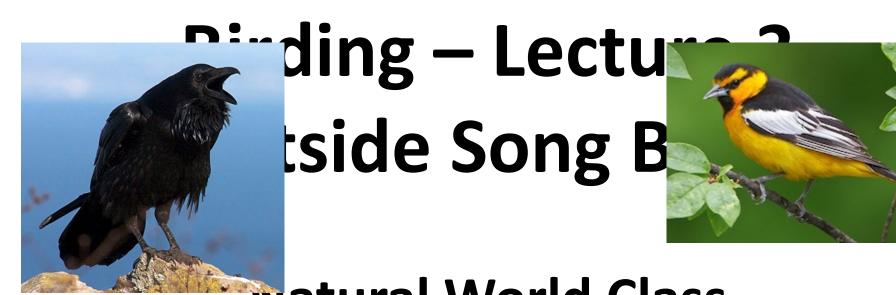
Indian Dream Fern









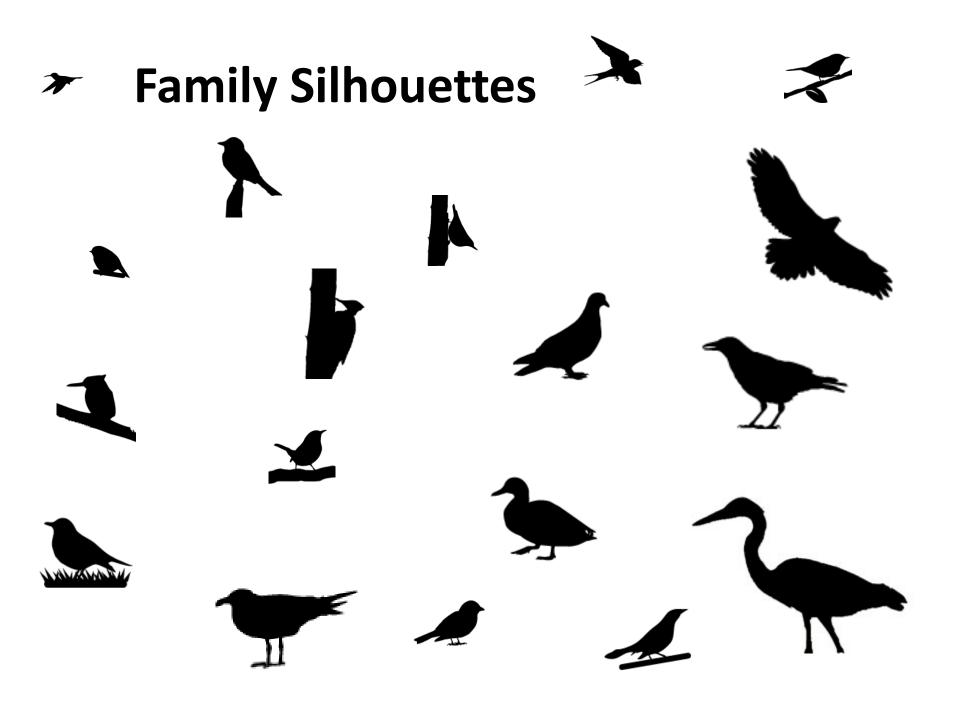


Song Birds - Passeriformes

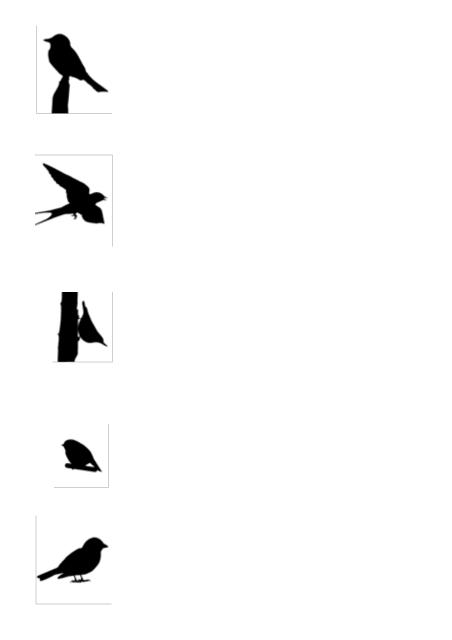
- More than half of all bird species (~ 6000)
- Roughly half of all bird families (~100)
 - special toe arrangement for perching
 - 3 forward, one backward
 - Syrinx muscles at base of the windpipe
 - Oscine song birds multiple muscles controlling air flow separately from each lung
 - Sub-oscine perching birds (Tyrant Flycatchers)

Review

- associate Size, Silhouette, Behavior with specific bird families
- wild card: use Habitat, range and season to assign a probability
- field characteristics: Song and Plumage
 Pattern to identify species



Common Song Bird Silhouettes of Eastern Washington





Ravens, crows, jays and magpies











Alert, noisy Social

> Corvid field characteristics: Distinctive calls, body shape Color, Range









Wrens

Marsh Wren





Cocked tail Barring on tail & back Elaborate long song

Rock Wren





Wren field characteristics: Habitat

Canyon Wren

Bewick's Wren









Thrushes













Often on ground Potbelly thrush shape Eats worms, insects Complex tones in song



Warblers





Small Active, moving quickly Thin bill

Warbler field characteristics: Distinctive songs Plumage patterns







Oriole – Grosbeak - Tanager

Medium sized, arboreal, loud sing-song, slow moving Field Characteristics: Call note; bill shape; bright colors



Probability: only member of family in Washington (sort of)

Woodland Thrushes

Brownish Spotted throats & breasts Amazing tone to song

Field characteristics : Eye ring Color contrast of back and tail Distinctive song and call notes



Hermit Thrush



Swainson's Thrush

Trillers







Chipping Sparrow



Dark-eyed Junco



Belted Kingfisher!

Mammals – pine squirrel



pika



Ground squirrel



Chipmunk



Black Tailed deer