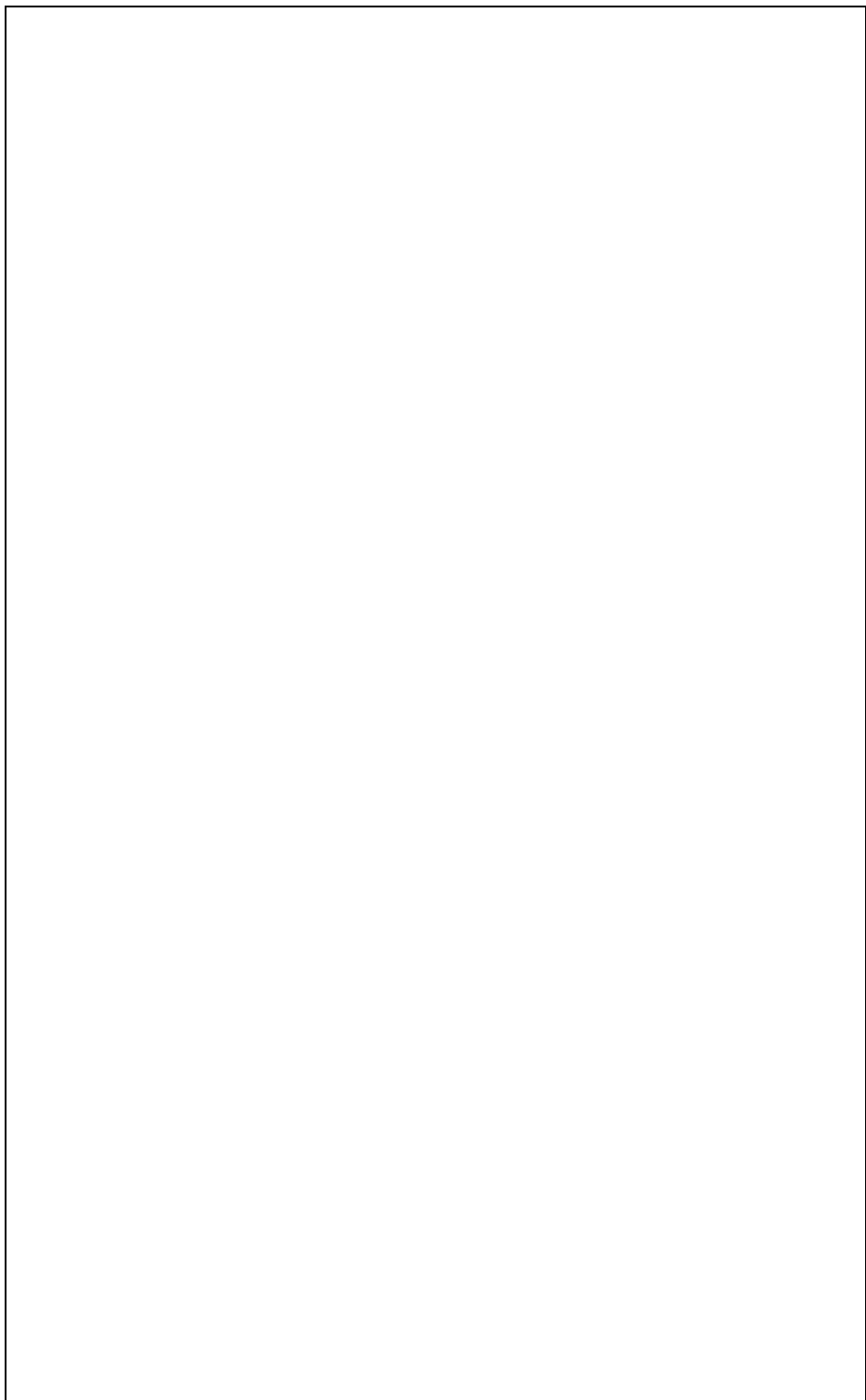


**Key to Common Wetland
Delineation Families of
the Northwestern U.S.**



*Caution-This is a limited species key.



1. Parts in 3's or multiples of 3.
 2. Flowers bilateral, lower petal a lip or bowl **Orchidaceae**
 2. Flowers radial or nearly so.
 3. Flowers of 6 tepals (3 sepals and 3 petals) that all look alike, 6 stamens **Liliaceae**
 3. Flowers of 6 tepals with 3 stamens **Iridaceae**

1. Part's in 4's or 5's.
 4. Part's in 4's.
 5. Ovary inferior, 4-8 stamens attached to petals **Onagraceae**
 5. Ovary superior, 6 stamens attached near the base of ovary **Brassicaceae**

 4. Part's in 5's.
 6. Flowers bilateral.
 7. Flowers with a banner and wings, fruit a pod **Fabaceae**
 7. Flowers lacking banner and wings, fruit nutlets or capsule .
 8. Stems square, leaves opposite, aromatic, ovary with 4 seeds **Lamiaceae**
 8. Stems round, leaves opposite or alternate, not aromatic, ovary with many seeds **Scrophulariaceae**

 6. Flowers radial.
 9. Compound or tightly clustered flowering heads.
 10. Compound flower head (sunflower type), leaves not sheathing the stem **Asteraceae**
 10. Compound or tightly clustered flowering head, leaves sheathing the stem (ochreae) **Polygonaceae**
 9. Flowers in umbels or single flower with numerous parts.
 11. Flowers in tight clusters.
 12. Small flowers in umbel inflorescence, stamens 5 pistil 1, leaves sheathing the stem **Apiaceae**
 12. Flower general larger, stamens and pistil 1-many, leaves with stipules **Rosaceae**
 11. Flowers either singular or loosely arranged but not in tight clusters.
 13. Flowers with >10 stamens crowded in the center.
 14. Pistils 3-many, often hooked tips, leaves lacking stipules **Ranunculaceae**
 14. Pistil 1-many, lacking hooked tip, leaves with stipules **Rosaceae**

center.

15. Petals fused.

16. Inflorescence scorpion shaped, corolla throat with small appendages **Boraginaceae**

16. Inflorescence a spike, raceme or panicle, corolla throat lacking appendages.

17. Flower bell or urn shaped, anthers open by pores at tip **Ericaceae**

17. Flower not bell or urn shaped, anthers open by splitting.

18. Corolla a long tube, stigmas 3, stems mostly leafy but not whorled **Polemoniaceae**

18. Corolla sometimes reflexed, stigma 1, leaves basal or whorled **Primulaceae**

15. Petals not fused or only at base.

19. Leaves opposite, stem swollen at node, stigmas 2-5, petals lobed or clawed **Caryophyllaceae**

19. Leaves alternate or basal, stems not swollen stigmas 2, petals not lobed or clawed **Saxifragaceae**

The following examples are only intended to provide the user with visual acquaintance with flower appearances of the common wetland families. Only a few genera per family of Angiosperms (flowering plants) will be shown for each family.

Orchidaceae (orchids). Irregular flowered monocots

Calypso bulbosa
Fairy-Slipper Orchid
(GP: FACW; WMVC: FACU)



Corallorhiza maculata
Summer Coralroot (UPL)



Liliaceae (Lily Family). Part's in 3'3, mostly regular flowers, monocots. (APG taxonomy has split the family into several families; here I use the classical (sensu lato.) concept.)

Erythronium grandiflorum
Yellow Avalanche-Lily
(WMVC: FACU)



Camassia quamash
Small Camas
(WMVC:FACW)



Prosartes trachycarpa
Rough-Fruit Fairybells
(GP:UPL; WMVC:FACU)



Iridaceae- irregular showy flowers

Sisyrinchium montanum
Strict Blue-Eyed-Grass (FAC)



Iris missouriensis
Rocky Mountain Iris (FACW)

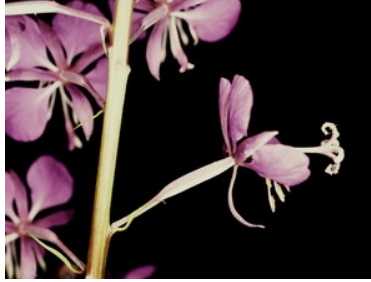


Sisyrinchium idahoense
Idaho Blue-Eyed-Grass
(GP:OBL; WMVC:FACW)



Onagraceae (evening primrose family). 4-merous with a corolla tube sitting on ovary

Chamaenerion angustifolium
Narrow-Leaf Fireweed (FACW)
(GP: FAC; WMVC: FACU)



Epilobium ciliatum
Fringed Willowherb (FACW)



Oenothera villosa
Hairy Evening-Primrose
(GP:FACU; WMVC:FAC)



Brassicaceae (mustard family). 4-merous, 6 stamens (4+2) like a cross, fruit split along the edges

Brassica rapa

Capsella bursa-pastoris

Camelina microcarpa

Cardamine penduliflora

Lepidium densiflorum
Miner's Pepperwort
(GP:FAC; WMVC:ACU)



Rorippa curvisiliqua
Curve-Pod Yellowcress
(OBL)



Sisymbrium altissimum
Tall Hedge-Mustard
(FACU)



Thlaspi arvense
Field Pennycress
(GP: FACU; WMVC:UPL)



Fabaceae (peafamily). Irregular lowers with a banner and wings, fruit a pod

Glycyrrhiza lepidota
American Licorice
(GP:FACU; WMVC:FAC)



Astragalus agrestis
Cock's-Head
(GP: FACU; WMVC: FACW)



Trifolium repens
White Clover
(GP:FACU; WMVC:FAC)



Melilotus officinalis
Yellow Sweet-Clover
(FACU)



Oxytropis lambertii
Stemless Locoweed (UPL)



Lamiaceae (mint family). Opposite leaves, square stems, irregular flowers

Mentha arvensis
American Wild Mint (FACW)



Scutellaria galericulata
Hooded Skullcap (OBL)



Lycopus americanus
Cut-Leaf Water-Horehound (OBL)



Agastache urticifolia
Nettle-Leaf Giant-Hyssop (WMVC:FACU)



Scrophulariaceae (figwort family). Irregular flowers, round stems, alternate leaves

Mimulus glabratus
Round-Leaf Monkey-Flower
(OBL)



Verbascum thapsus
Great Mullein
(GP:UPL, WMVC:FACU)



Pedicularis groenlandica
Bull Elephant's-Head
(OBL)



Penstemon procerus
Pincushion Beardtongue
(GP:UPL; WMVC:FAC)



Veronica anagallis-aquatica
Blue Water Speedwell (OBL)



Asteraceae (aster family). Sunflower family

Artemisia campestris

Carduus nutans

Erigeron canadensis

Erigeron glacialis

Achillea millefolium

Agoseris glauca

Antennaria alpina

Arnica fulgens

Ambrosia psilostachya

Perennial Ragweed

(FACU)



Artemisia ludoviciana

White Sagebrush

(GP:UPL; WMVC:FACU)



Cirsium arvense

Canadian Thistle

(GP:FACU; WMVC:FAC)



Grindelia squarrosa

Curly-Cup Gumweed

(GP:UPL; WMVC:FACU)



Lactuca tatarica

Russian Blue Lettuce

(GP:UPL; WMVC:FAC)



Symphotrichum falcatum

Rough White Prairie American-Aster

(FACU)



Polygonaceae- Parts appearing 6 with ocreae

Persicaria lapathifolia
Dock-Leaf Smartweed
(GP:OBL; WMVC:FACW)



Rumex crispus
Curly Dock
(FAC)



Bistorta bistortoides
American Bistort
(GP:OBL; WMVC:FACW)



Polygonum aviculare
Yard Knotweed
(GP: FACU; WMVC:FAC)



Eriogonum ovalifolium
Cushion Buckwheat (UPL)



Apiaceae (umbel family). Umbel or carrot family

Angelica arguta
Lyll's Angelica (WMVC:FACW)



Cicuta maculata
Spotted Water-Hemlock (OBL)



Conium maculatum
Poison-Hemlock
(GP:FACW; WMVC:FAC)



Rosaceae (rose family). Petals in 5's, flowers mostly white, pink or rose; fleshy fruits; many species with thorns

Fragaria virginiana
Virginia Strawberry (FACU)



Geum triflorum
Old-Man's-Whiskers (FACU)



Potentilla anserina
Silverweed
(GP:FACW; WMVC:OBL)



Potentilla gracilis
Graceful Cinquefoil
(FAC)



Prunus virginiana
Choke Cherry (FACU)



Rosa woodsii
Woods' Rose (FACU)



Ranunculaceae (buttercup family). Cupped shaped flowers, mostly yellow, 5-merous, herbs, fruits mostly achenes

Actaea rubra
Red Baneberry (FACU)



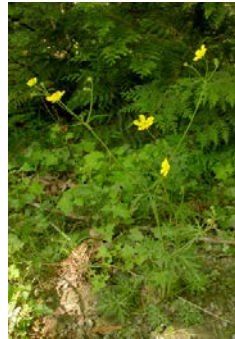
Cyrtorhyncha cymbalaria
Alkali Buttercup (OBL)



Cyrtorhyncha cymbalaria
Alkali Buttercup
(OBL)



Ranunculus acris
Tall Buttercup
(GP:FACW; WVC:FAC)



Thalictrum occidentale
Western Meadow-Rue (WMVC:FACU)



Boraginaceae- Scorpion inflorescence with 4 nutlets

Hackelia floribunda
Many-Flower Stickseed (FACU)



Mertensia ciliata
Tall Fringe Bluebells (FACW)



Plagiobothrys hispidulus
Harsh Popcorn-Flower



Ericaceae (heath family). Woodies, bell shaped fused petal, fruits berry or drupe

Arctostaphylos uva-ursi

Red Bearberry

(GP:UPL; WMVC:FACU)



Phyllodoce empetriformis

Pink Mountain-Heath

(FACU)



Vaccinium scoparium

Grouseberry (FACU)



Polemoniaceae- parts in 5, fused corolla tube, ovary superior

Collomia linearis
Narrow-Leaf Mountain-Trumpet
(FACU)



Polemonium foliosissimum
Towering Jacob's-Ladder
(GP:FAC; WMVC:FACU)



Primulaceae- petals united at base, stamens opposite corolla lobes

Dodecatheon conjugens
Bonneville Shootingstar (FACU)



Lysimachia ciliata
Fringed Yellow-Loosestrife (FACW)



Moneses uniflora
Single-Delight
(GP: FAC; WMVC:FACU)



Pyrola asarifolia
Pink Wintergreen
(FACU)



Caryophyllaceae (pink family). Opposite leaves, spilt or fringed petals, mostly 5-merous, stamens 5-10, pistil 1

Cerastium arvense

Field Mouse-Ear Chickweed (FACU)



Minuartia obtusiloba

Alpine Stitchwort (FACU)



Silene menziesii

White Catchfly

(GP:UPL; WMVC: FAC)



Stellaria longifolia

Long-Leaf Starwort

(FACW)



Saxifragaceae (saxifrage family). Basal leaves, mostly 5-merous, “styles or pistils 2”

Parnassia fimbriata

Fringed Grass-of-Pamassus (OBL)



Micranthes odontoloma

Streambank Pseudosaxifrage (FACW)



Families	Fls 3-merous	Fls 4-merous	Fls 5-merous	Ovary Superior	Ovary Inferior	Fls bilateral	Fls radial	Leaves alternate	Leaves opposite
Liliaceae	X			X			X	X	
Orchidaceae	X			X		X		X	
Iridaceae	X				X	X	X	X	
Onagraceae		X			X		X	X	X
Brassicaceae		X		X			X	X	
Fabaceae			X	X		X		X	
Lamiaceae			X	X		X			X
Scrophulariaceae			X	X		X		X	X
Asteraceae			X	X			X	X	X
Polygonaceae			X	X			X	X	
Apiaceae			X		X		X	X	
Rosaceae			X	X	X		X	X	
Ranunculaceae				X			X	X	X
Boraginaceae			X	X			X	X	
Ericaceae			X	X			X	X	X
Polemoniaceae			X	X			X	X	X
Primulaceae			X	X			X	X	X
Caryophyllaceae			X	X			X		X
Saxifragaceae			X	X			X	X	

Common Wetland Delineation Families of the Northwestern U.S.

