

A Guide to Flora in Arrigetch Valley (Gates of the Arctic National Park)

The Arrigetch Peaks in Gates of the Arctic National Park have been visited by researchers and hikers for decades since this part of the Brooks Range combines tremendous appeal for recreation along with ecological diversity. Research by David J. Cooper in the early 80s documented 174 taxa of vascular plants, and this booklet shows some of the more common ones likely to be encountered. A complete checklist (names only) from his research, along with a booklet of photos and general information about the Arrigetch, is available at the Alaska Native Plant Society website: <https://aknps.org>.

This booklet is sorted by scientific names consistent with the 2020 Flora of AK Project, and cross-referenced to Hulten's 1968 *Flora of Alaska and Neighboring Territories*. All photos and field ID notes are copyrighted to Dennis Ronsse.

References:

- Cody, WIJ. 2000. *Flora of the Yukon Territory*, 2nd Edition
- Collet, Dominique M. 2002. *Willows of Southcentral Alaska*
- Consortium of Pacific Northwest Herbaria 2007-2022
- Flora of North America Editorial Committee, eds. 1993+
- Hulten, E. 1968. *Flora of Alaska and Neighboring Territories*
- Ickert-Bond, S.M., B. Bennett, M.L. Carlson, J. DeLapp, J.R. Fulkerson, C.L. Parker, T. W. Nawrocki, M.C. Stensvold, and C.O. Webb (eds.). 2019. *Flora of Alaska*. Available: <https://floraofalaska.org>
- McCune, B and L. Geiser. 2000. *Macrolichens of the Pacific Northwest*
- Pojar, J. and A. Mackinnon. 2013. *Alpine Plants of the Northwest*
- Skinner, Q, S. Wright, J. Henszey, R. Henszey and S. Wyman. 2012. *A Field Guide to Alaska Grasses*
- Viereck and Little. 2007. *Alaska Trees and Shrubs*, 2nd Edition
- Wilson, B., R. Brainerd, D. Lytjen, B. Newhouse, and N. Otting. 2008. *A Field Guide to Sedges of the Pacific Northwest*

Scientific Name

Common Name

Family

Aconitum delphiniifolium

Larkspurleaf Monkshood

Ranunculaceae

Monkshood- Leaves digitately cleft into 5-lobed **narrow** parts. Flowers blue (sometimes white) **shaped like helmets**. Poisonous, used in bait to kill wolves and on harpoon tips to sedate whales vs. Larkspur- **Leaf segments 3-5, wider and toothed. Flowers w/ long spur.**



Hulten Family

Hulten Name

Hulten page

Accepted

Ranunculaceae

Aconitum delphiniifolium ssp. *delphiniifolium*

459.5

yes

Scientific Name

Common Name

Family

Aconitum delphiniifolium paradoxum

Larkspurleaf Monkshood

Ranunculaceae

A. delphiniifolium ssp. *paradoxum*- single flowered, alpine & arctic.



© 2022 Dennis Ronsse

Hulten Family

Ranunculaceae

Hulten Name

Aconitum paradoxum

Hulten page

460

Accepted

no

Scientific Name

Common Name

Family

Anemone parviflora

Northern Anemone

Ranunculaceae

Northern Anemone (*A. parviflora*) - basal leaves dark green, lustrous, glabrous, **3 lobed w/ blunt teeth**. Flowers early, 1 per plant, **5 large white petals** (underside blueish). More alpine. vs Narcissus-flowered Anemone (*A. sibirica*)- Achenes hairless. Flowers large, **many petals**, often blueish underside, **usually more than one per plant**. Leaves deeply dissected. Alpine & woods vs *A. multifida*- Flowers smaller, rosy or lavender underneath. Dry open woods (not as high in the mountains).



Hulten Family

Hulten Name

Hulten page

Accepted

Ranunculaceae

Anemone parviflora

463

yes

Scientific Name

Common Name

Family

Antennaria monocephala monocephala

Cat's Paw

Asteraceae

Cat's Paw- **Flowers white, in a single head.** Mat forming w/ stolons. Basal leaves spoon-shaped, **greener, less hairy than most others in this genus.**



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

Asteraceae

Antennaria monocephala monocephala

874

yes

Scientific Name

Anticlea elegans

Common Name

Death Camas

Family

Melanthiaceae

Death Camas - Leaves appear in early spring, sedge-like appearance. Poisonous, Okanagan people used the mashed bulb as arrow tip poison.



Hulten Family

*Liliaceae**

Hulten Name

*Zygadenus elegans**

Hulten page

305

Accepted

no

Scientific Name

Common Name

Family

Aphragmus eschscholtzianus

Aleutian Cress

Brassicaceae

Aleutian Cress - Very small pale white to purplish flowers. persistent dilated petioles at base
Basal leaves spatulate-ovate, with long underground petioles strongly dilated. Wet places.



Hulten Family

Hulten Name

Hulten page

Accepted

Brassicaceae

*Aphragmus Eschscholtzianus**

500

no

Scientific Name

Common Name

Family

Arctous alpina

Black Bearberry

Ericaceae

Alpine Bearberry - **Leaves smaller (4-15mm), rugose, some hairs at base, persisting for years.** Berries mature to blue-black. vs. Red Bearberry **Leaves less persistent, larger (15-30mm), less reticulated, glabrous.** Berries red & sweet.



Hulten Family

Hulten Name

Hulten page

Accepted

Ericaceae

*Arctostaphylos alpina**

730

no

Scientific Name

Common Name

Family

Arctous rubra

Red Alpine Bearberry

Ericaceae

Red Bearberry - **Leaves less persistent, larger (15-30mm), less reticulated, glabrous.** Berries red & sweet. vs. Alpine Bearberry- **Leaves smaller (4-15mm), rugose, some hairs at base, persisting for years.** Berries mature to blue-black.



Hulten Family

Hulten Name

Hulten page

Accepted

Ericaceae

*Arctostaphylos rubra**

730

no

Scientific Name

Common Name

Family

Arnica frigida

Frigid Arnica

Asteraceae

Frigid Arnica - **Mid-stem leaves narrow & short stalked. Heads nodding when young. involucre bracts often purplish** Dry alpine & aspen mix. vs. *A. ovata*- **Mid-stem leaves broad & longer, prominently petiolated.** Moist meadows, conifer forests, stream banks, late snow-melt areas (rare status in AK, CPNWH 5 in SC AK).



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

Asteraceae

Arnica frigida

917

yes

Scientific Name

Arnica lessingii

Common Name

Lessing's Arnica

Family

Asteraceae

Lessing's Arnica - **Anthers purple or blackish.** Alpine. Mostly basal leaves. Flowers pale yellow, almost always nodding. Involucral bracts dark purplish, densely pubescent below vs. **all other *Arnica* have yellow anthers.**



Hulten Family

Asteraceae

Hulten Name

Arnica Lessingii

Hulten page

916

Accepted

yes

Scientific Name

Common Name

Family

Artemisia borealis

Wormwood

Asteraceae

Boreal Sage (*A. borealis*) - Caespitose (not matted). **Leaves mostly basal gray-green to white, silvery-hairy, tips often w/ long tufts of hair. Lower bracts 2-3 forked tips vs. Forked Wormwood (*A. furcata*)- Caespitose (not matted), **stem leaves reduced, 1-3x palmately lobed, tips w/o tufts of hair. Bracts long, linear, entire.****



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

Asteraceae

*Artemisia borealis**

910

no

Scientific Name

Common Name

Family

Artemisia kruhsiana alaskana

Siberian Wormwood

Asteraceae

A. kruhsiana alaskana- Flowering stems taller (15-60 cm), woody base from last year. Leaves mostly basal, palmately 3-lobed or twice divided into 3's. Receptacles hairless. **Stem leaves divided** vs. *A. furcata*- Flowering stems shorter (7-35 cm) arising directly from non-woody rhizome or stem base. Receptacles hairless vs. *A. frigida*- receptacle w/ long hairs. Very fragrant.



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

*Artemisia alaskana**

905

no

Scientific Name

Common Name

Family

Artemisia tilesii

Tilesius' wormwood

Asteraceae

Tilesius' wormwood (*A. Tilesii*) - **Leaves deeply cut 3-5 lobes smooth & green on top & silvery beneath. Very aromatic.** Frequently used by Yup'ik people for respiratory problems, sore throats, colds, and incense (called Caiggluk). Also called Caribou Weed in some places because leaf shape resembles antlers.



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

Asteraceae

Artemisia Tilesii

902

yes

Scientific Name

Askellia elegans

Common Name

Hawk's Beard

Family

Asteraceae



Hulten Family

Asteraceae

Hulten Name

*Crepis elegans**

Hulten page

956

Accepted

no

Scientific Name

Common Name

Family

Askellia pygmaea

Dwarf Alpine Hawk's Beard

Asteraceae

Dwarf Alpine Hawk's Beard (*Askellia pygmaea*)- Low tufted alpine plant. Mostly basal leaves, long stalked, egg to spoon shaped tips, often purplish below, glaucous green above. Flowers yellow.



Hulten Family

Hulten Name

Hulten page

Accepted

Asteraceae

*Crepis nana**

956

no

Scientific Name

Common Name

Family

Astragalus nutzotinensis

Sickle Milkvetch

Fabaceae

Sickle Milkvetch- *A. nutzotinensis* few flowered, prostrate, **Stipules clasping**.



Hulten Family

Hulten Name

Hulten page

Accepted

Fabaceae

Astragalus nutzotinensis

651

yes

Scientific Name

Common Name

Family

Betula nana exilis

Dwarf Birch

Betulaceae

Dwarf Birch- (2 in SC AK) *B. nana* **leaves often wider than long, straight or notched at base.** Petioles very short, 2 mm long. vs. *B. glandulosa* **leaves longer than wide, wedge shaped at base.** Petioles hairy 5-6 mm long. Hybrids are common between the two dwarf birches, and also between tree & dwarf birches.



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

Betulaceae

Betula nana exilis

365

yes

Scientific Name

Bistorta plumosa

Common Name

Pink Plumes

Family

Polygonaceae

Pink Plumes - Flowers deep pink in short cylindric clusters. Dena'ina people have called it "Crescent Root" for the shape of the root, chewed to help clean their teeth after eating fish eggs.



Hulten Family

Polygonaceae

Hulten Name

*Polygonum bistorta ssp pluosum**

Hulten page

385

Accepted

no

Scientific Name

Common Name

Family

Bistorta vivipara

Alpine Meadow Bistort

Polygonaceae

Alpine Meadow Bistort- flowers small, white, rapidly replaced by bulbs developing leaves and roots before they fall from adult plant. Plant 3-8" tall. Alpine.



Hulten Family

Hulten Name

Hulten page

Accepted

Polygonaceae

*Polygonum viviparum**

385

no

Scientific Name

Common Name

Family

Boykinia richardsonii

Bearflower

Saxifragaceae

Bearflower & *Equisetum* are the most important foods for grizzly bears in Yukon.



Hulten Family

Hulten Name

Hulten page

Accepted

Saxifragaceae

Boykinia richardsonii

562

yes

Scientific Name

Common Name

Family

Braya humilis humilis

Northern Rockcress

Brassicaceae

Northern Rockcress (*B. humilis*) - Stem leaves 1-3, Siliques long, linear, terete, 1-3 cm long and torulose (swollen and constricted at intervals). Found on solifluction soils and scree slopes vs *B. glabella*- stem leafless (rarely 1). Siliques oval-elliptic, oblong, 5-15 mm long.



Hulten Family

Hulten Name

Hulten page

Accepted

Brassicaceae

Braya humilis ssp Richardsonii

553

no

Scientific Name

Common Name

Family

Campanula lasiocarpa

Mountain Harebell

Campanulaceae

Mountain Harebell - **Flowers large, usually single. Leaves mostly basal. Calyx lobes with slender teeth.** vs Common Harebell (*C. rotundifolia*)- **Flowers usually many. Basal leaves usually withered. Calyx lobes entire** vs. One-flowered Harebell (*C. uniflora*) Small alpine plant. **Flowers single, small, narrow. Calyx lobes entire.** Leaves oblong to spatulate, crowded at the base.



Hulten Family

Hulten Name

Hulten page

Accepted

Campanulaceae

Campanula lasiocarpa ssp lasiocarpa

847

yes

Scientific Name

Common Name

Family

Campanula uniflora

One-flowered Harebell

Campanulaceae

One-flowered Harebell (*C. uniflora*) Small alpine plant. **Flowers single, small, narrow. Calyx lobes entire.** Leaves oblong to spatulate, crowded at the base vs. Mountain Harebell (*C. lasiocarpa*)-**Flowers large, usually single. Leaves mostly basal. Calyx lobes with slender teeth.** Both found on stony tundra & dry ridges.



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

Campanulaceae

Campanula uniflora

851

yes

Scientific Name

Common Name

Family

Cardamine bellidifolia bellidifolia

Alpine Cress

Brassicaceae

Alpine Cress- Tufted, dwarf plant. Lvs long petiolated, ovate. Flrs small white. Siliques linear upright w/ short thick style.. Gravelly places below melting snow, along creeks in mountains.



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

Brassicaceae

Cardamine bellidifolia

512

yes

Scientific Name

Common Name

Family

Castilleja elegans

Elegant Paintbrush

Orobanchaceae

Elegant Paintbrush- flowers rose to purplish. Leaves entire (or upper leaves w/ a pair of side lobes).



Hulten Family

Hulten Name

Hulten page

Accepted

*Scrophulariaceae**

Castilleja elegans

811

yes

Cerastium beeringianum

Bering Chickweed

Caryophyllaceae

Bering Chickweed (*C. beeringianum*) - Leaves wider, less hairy **w/o small axillary tufts (of leaves) at base up uppermost leaves.** vs. Mouse-eared Chickweed (*C. arvense*)- Leaves narrow, hairy, silvery **w/ small axillary tufts (of leaves) at base up uppermost leaves.**



Hulten Family

Hulten Name

Hulten page

Accepted

Cerastium beeringianum

421

Scientific Name

Common Name

Family

Cicuta virosa

Poison Water Hemlock

Apiaceae

C. virosa - Leflets linear to narrowly lanceolate, **serrate or slightly incised**. Fruit conspicuously broader than long.



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

NA

*Cicuta mackenzieana**

700

no

Scientific Name

Common Name

Family

Corallorhiza trifida

Early Coral Root

Orchidaceae

Early Coral Root - no leaves, saprophyte, most of its nutrients from decaying organic matter through a parasitic relationship with a fungal mycelium.



Hulten Family

Orchidaceae

Hulten Name

Corallorhiza trifida

Hulten page

329

Accepted

yes

Scientific Name

Common Name

Family

Cypripedium passerinum

Sparrowegg Lady's Slipper

Orchidaceae

Sparrowegg Lady's Slipper (*C. passerinum*) - Plant taller w/ several stem leaves. Flowers small. Sepals shorter than lip.



© 2022 Dennis Ronsse

Hulten Family

Orchidaceae

Hulten Name

Cypripedium passerinum

Hulten page

317

Accepted

yes

Scientific Name

Common Name

Family

Dasiphora fruticosa

Shrubby Cinquefoil

Rosaceae

Shrubby Cinquefoil - **Stems are reddish-brown w/ shedding bark.** Leaves thick, bluish-gray above, 5-parted. Large flowers, Common throughout AK, wet and dry ground, prefers limestone.



Hulten Family

Hulten Name

Hulten page

Accepted

Rosaceae

*Potentilla fruticosa**

609

no

Scientific Name

Common Name

Family

Dodecatheon frigidum

Northern Shootingstar

Primulaceae

Northern Shootingstar - **Filament tube not visible** Leaves spade to egg-shaped, squared off at the **base**. most of AK vs. Few Flowered Shootingstar (*D. pulchellum*)- **Filament tube prominent, orange** (2 ssp in AK) vs. Jeffrey Shooting Star (*D. jeffreyi*)- **Filament tube not visible** Leaves gradually narrow to a broad petiole. SE & SC Coast of AK.



Hulten Family

Primulaceae

Hulten Name

Dodecatheon frigidum

Hulten page

749

Accepted

yes

Scientific Name

Common Name

Family

Draba nivalis

Snow Draba

Brassicaceae

Snow Draba (*D. nivalis*)- **Petals white (2-4 mm). Stem leaves 0 (or 1). Dwarf (2-10cm tall) leaves densely stellate pubescent. Pale gray glaucous appearance** recognizable at a distance. Dry rocky or gravelly places. vs. *D. lonchocarpa* Petals white. Stem leaves 0 or 1(-4). lower leaf surfaces greyish w/ tiny star-like hairs, **upper surface usually hairless, and ciliate margins.** vs. *D. cinerea* **Stem leaves 0-5. basal leaves ashy gray on both surfaces.**



Hulten Family

Brassicaceae

Hulten Name

Draba nivalis

Hulten page

523

Accepted

yes

Scientific Name**Common Name****Family*****Draba palanderiana*****Palander's draba*****Brassicaceae***

Flora of North America: Many North American collections of *Draba palanderiana* have been misidentified as *D. nivalis*. The species is easily separated from *D. nivalis* by having ciliate (versus non-ciliate) bases of basal leaves, larger petals ($4.5\text{--}5.5 \times 2\text{--}3$ versus $2\text{--}3.5 \times 0.8\text{--}1.4$ mm) that are pale yellow or cream (versus white), and longer fruiting pedicels 4–10 [versus 1–4.5(–8)] mm. Also flowering stalk hairy at the base, glabrous at the top vs. *D. nivalis* hairs all the way to the top

**Hulten Family****Hulten Name****Hulten page****Accepted***Draba palanderiana*

527*

yes

Scientific Name

Common Name

Family

Dryas ajanensis beringensis

White Mountain Avens

Rosaceae

White Mountain Avens (3 in SC AK, need magnification & hybrids occur) *D. ajanensis* ssp *beringensis*- Leaf sinuses 5–25% to midvein. Feathery hairs and stipitate glands abundant along midveins abaxially. vs. *D. hookeriana* Leaf sinuses 5-25% to midvein, no feathery hairs, but midveins and petioles abaxially stipitate-glandular (rare) vs Alaska Mountain Avens sinuses of margins 45–60% to midvein. Feathery hairs absent on leaf underside.



Hulten Family

Hulten Name

Hulten page

Accepted

Rosaceae

Dryas octopetala ssp *octopetala* var *octopetala*

630

no

Scientific Name

Common Name

Family

Dryas alaskensis

Alaska Mountain Avens

Rosaceae

Alaska Mountain Avens- feathery hairs & stipate-glands absent on leaf underside. sinuses of margins 45–60% to midvein. vs. *D. ajanensis* Feathery hairs and stipitate glands abundant along midveins abaxially. sinuses 5–25% to midvein vs. *D. hookeriana* leaf sinuses 5–25%. Leaf underside mid-vein w/ abundance of stipate glands, no feathery hairs. (need magnification & hybrids occur).



Hulten Family

Hulten Name

Hulten page

Accepted

Rosaceae

*Dryas octopetala ssp alaskensis**

631

no

Scientific Name

Common Name

Family

Dryas incisa

Mountain Avens

Rosaceae

D. incisa Leaf underside w/o feathery hairs or glands, very wooly. Leaf sinuses 5-30% to midvein.



Hulten Family

Hulten Name

Hulten page

Accepted

Rosaceae

Dryas incisa

631*

yes

Scientific Name

Common Name

Family

Dryas integrifolia

Entire-leaf Avens

Rosaceae

Entire-leaf Avens - Leaves broadest near the base, entire or weakly toothed, no scales on underside midvein, top side not strongly wrinkled (ssp sylvatic leaf base cuneate).



Hulten Family

Hulten Name

Hulten page

Accepted

Rosaceae

Dryas integrifolia

631

yes

Scientific Name

Common Name

Family

Dryopteris fragrans

Fragrant Shield Fern

Dryopteridaceae

Fragrant Shield Fern (*D. fragrans*)- Leaves green all winter. **Dead fronds turn gray and remain attached. Stipe short, caffy w/ brown scales. indusia kidney shaped (not hairy). Blades tapering from middle to base.** Sunny dry, rocky outcroppings & boulder fields. vs. Rusty Fern (*Woodsia ilvensis*)- **no persistent dead fronds. Blades not tapering from middle to base. indusia hairy.**



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

*Aspidiaceae**

Dryopteris fragrans

56

no

Scientific Name

Common Name

Family

Erigeron eriocephalus

Oneflower Fleabane

Asteraceae

E. humilis & *E. uniflorus eriocephalus*- Leaves all entire. Inv bracts can be very hairy (or not in *E. uniflorus*). *E. humilis*- Crosswalls purplish. vs *E. uniflorus*- Crosswalls clear or sometimes reddish. (*E. denalii* & *E. purpuratus*- some leaf tips lobed).



Hulten Family

Asteraceae

Hulten Name

Erigeron eriocephalus

Hulten page

864

Accepted

yes

Scientific Name

Common Name

Family

Erigeron humilis

Arctic Alpine Fleabane

Asteraceae

E. humilis & *E. uniflorus*- Leaves all entire. Bracts very hairy. *E. humilis*- Crosswalls purplish. *E. uniflorus*- Crosswalls clear or sometimes reddish. (*E. denalii* & *E. purpuratus*- some leaf tips lobed).



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

Asteraceae

Erigeron humilis

864

yes

*Eriophorum vaginatum vaginatum***Tussock Cotton-grass***Cyperaceae*

Tussock (*Eriophorum vaginatum*)- Tall compact tussocks. Spikes single, globose. Scales w/ darker center.



Scientific Name

Common Name

Family

Eritrichium aretioides aretioides

Mountain Forget-Me-Not

Boraginaceae



Hulten Family

Boraginaceae

Hulten Name

Eritrichium aretoides

Hulten page

773

Accepted

yes

Scientific Name

Common Name

Family

Gentiana glauca

Glaucous gentian

Gentianaceae

Glaucous Gentian- the only gentian in AK w/ tube of dark blue or greenish connected petals which open with a flare of sunshine.



Hulten Family

Hulten Name

Hulten page

Accepted

Gentianaceae

Gentiana glauca

757

yes

Scientific Name

Common Name

Family

Hedysarum americanum

Bear-root

Fabaceae

Bear-root (*H. americanum* / *alpinum*)- upper teeth of calyx tube triangular, shorter than lower teeth. Leaves w/ prominent lateral veins. Roots are large and edible, important spring food for Grizzly Bears. Roots are edible, seeds toxic (death of Christopher McCandless?) vs. Wild Sweet Pea (*H. mackenziei* / *boreale*)- upper teeth of calyx tube linear-lance shaped, about equal length of lower teeth. Leaves w/ lateral veins not evident. Articulations of lomen not winged, Roots & seeds have swainsona, poisonous.



Hulten Family

Leguminosae

Hulten Name

Hedysarum alpinum

Hulten page

668

Accepted

yes

Scientific Name

Common Name

Family

Hulteniella integrifolia

Entire-leaf Daisy

Asteraceae

Entire-leaf Daisy - large flowers w/ white ray flowers, yellow centers. Basal leaves linear, entire. Northern AK, gravel, solifluction & slopes.



Hulten Family

Hulten Name

Hulten page

Accepted

Asteraceae

*Chrysanthemum integrifolium**

895

no

Scientific Name

Lomatogonium rotatum

Common Name

Star Gentian

Family

Gentianaceae

Marsh Felsworth (*Lomatogonium rotatum*) - light blue flowers, very narrow leaves, low elevations vs. *Swertian perennis* Smooth stiff plant, up to 15" tall. purplish stem, opposite leaves; 4-5 petals purplish, star shaped. Alpine meadows.



Hulten Family

Gentianaceae

Hulten Name

Lomatogonium rotatum

Hulten page

761

Accepted

Yes

Scientific Name

Micranthes calycina

Common Name

Fan-leaf Saxifrage

Family

Saxifragaceae

Fan-leaf Saxifrage- **branches of inflorescence hairy. Leaves w/ more than 7 teeth. Filaments linear. Capsules purple to black (not greenish)** vs. *M. lyalii* filaments club-shaped & capsules greenish.



© 2022 Dennis Ronsse

Hulten Family

Saxifragaceae

Hulten Name

Saxifraga davurica ssp *grandipetala**

Hulten page

578

Accepted

no

Scientific Name

Common Name

Family

Micranthes foliolosa

Grained Saxifrage

Saxifragaceae

M. foliolosa Basal leaves wedge shaped **glabrous w/ few (3-5) teeth**. Stem sparsely pubescent w/ glandular hairs. **Inflorescence w/ short branches. Flowers usually single, others replaced by bulbets or buds.** Petals white or reddish, dimorphic (the longer w/ yellow spots). vs *M. ferruginea* Basal leaves wedge shaped **glabrous or hairy w/ 7-12 coarse teeth**. **Inflorescence w/ long branches. Flowers several to many**, petals white or purple, dimorphic (the larger w/ yellow spots). Sepals reflex, in age purple-tipped. South coastal AK.



© 2022 Dennis Ronsse

Hulten Family

Saxifragaceae

Hulten Name

*Saxifraga foliosa**

Hulten page

581

Accepted

no

Scientific Name

Moneses uniflora

Common Name

Shy Maiden

Family

Ericaceae

Shy Maiden- Small woodland plant, often w/ *Pyrolas*. Basal rosette of small light green roundish leaves w/ shallow teeth. Flower single on leafless stem faces downward.



© 2022 Dennis Ronsse

Hulten Family

*Pyrolaceae**

Hulten Name

Moneses uniflora

Hulten page

714

Accepted

no

Scientific Name

Oxycoccus microcarpus

Common Name

Bog Cranberry

Family

Ericaceae

Bog Cranberry - Trailing evergreen shrub common in boggy areas w/ tiny leaves. Flowers light pink and reflexed like miniature shooting stars.



Hulten Family

Ericaceae

Hulten Name

Oxycoccus microcarpus

Hulten page

735

Accepted

yes

Scientific Name

Common Name

Family

Oxytropis borealis

Sticky Locoweed

Fabaceae

Sticky Locoweeds: 2 in AK are glandular warty, usually sticky. Flowers purplish blue or cream-white. *O. borealis*-calyx & legume w/ mostly black hairs. Leaflets mostly less than 25 vs *O. viscida*- calyx with a mixture of white and black hairs. Leaflets mostly more than 25. vs Arctic Locoweed- Plants **not glandular-warty or sticky**. Flowers vary dark purple, pink, blueish or white. *Oxytropis* and *Astragalus* can absorb selenium and molybdenum from the soil. If ingested causes staggering, labored breathing and convulsions.



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

Fabaceae

Oxytropis borealis

667

yes

Scientific Name

Common Name

Family

Oxytropis bryophila

Purple Oxytrope

Fabaceae

Purple Oxytrope- Small alpine plant w/ 2-3 flowers / stem, **calyx black hairy**, **petals purplish to blue**, pods oblong to cylindrical. Potentially toxic / poisonous. *Oxytropis* and *Astragalus* can absorb selenium and molybdenum from the soil. If ingested causes staggering, labored breathing and convulsions.



© 2022 Dennis Ronsse

Hulten Family

Fabaceae

Hulten Name

*Oxytropis nigrescens ssp bryophila**

Hulten page

661

Accepted

no

Scientific Name

Common Name

Family

Oxytropis jordalii

Yellow Locoweed

Fabaceae

O. jordalii- Racemes fewer than 10 yellowish whitish, or purple tinted blooms. Leaves 9-17 foliate, glabrous above. Calyx hairs grayish. Pods w/ short dense black indument vs. *O. varians (campestris)*- Racemes 16-25 yellow blooms. Leaves 19-45 foliate, pilose both sides. Calyx hairs black & white. Pods w/ mixed black & white hair. Both previously considered ssp of *O. campestris*.



© 2022 Dennis Ronsse

Hulten Family

Fabaceae

Hulten Name

Oxytropis campestris var *jordalii**

Hulten page

664

Accepted

no

Scientific Name

Common Name

Family

Packera heterophylla

Dwarf Arctic Packera

Asteraceae

Dwarf Arctic Packera (*Packera heterophylla*)- Mat forming, nearly glabrous. Basal leaves egg-shaped, to kidney, to lyrate w/ margins blunt toothed, wavy, or shallowly lobed. Stem leaves abruptly reduced. Flower heads 1-2, ray flowers 11-13 (or lacking) yellow, **disc flowers orange or yellow**. **Bracts reddish purple or green w/ red tips, hairless**. **Cypselae (achenes) glabrous**.



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

Asteraceae

*Senecio resedifolius**

929

no

Scientific Name

Common Name

Family

Packera ogotorukensis

Ogotoruk Packera

Asteraceae

Ogotoruk Packera (*P. ogotorukensis*)- **Basal leaves deeply cleft and woolly.** Stem & upper leaves patchy woolly. **Flowers 1 (occasionally 2-3) yellow, involucre bracts green w/ purple tip** vs. *P. pauciflora* / *indecora*- lacks ray flowers (usually).



Hulten Family

Hulten Name

Hulten page

Accepted

Asteraceae

*Senecio ogotorukensis**

929

no

Scientific Name

Common Name

Family

Parnassia kotzebuei

Small Grass of Parnassus

Parnassiaceae

Small Grass of Parnassus- wet alpine, much smaller than *P. palustris*. Petals equal or shorter than sepals.



Hulten Family

Hulten Name

Hulten page

Accepted

*Saxifragaceae**

Parnassia Kotzebuei

589

no

Scientific Name

Common Name

Family

Parnassia palustris

Northern Grass of
Parnassus

Parnassiaceae

Northern Grass of Parnassus (*P. palustris*)- wet meadows, ditches, lake margins most of AK. pointed petals, conspicuously veined. Petals almost twice as long as sepals.



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

*Saxifragaceae**

Parnassia palustris

589

no

Scientific Name

Common Name

Family

Pedicularis capitata

Capitate Lousewort

Orobanchaceae

Capitate Lousewort- **Flowers yellow, rather large, few at the top of the stem.** Rocky alpine tundra. Louseworts, 22 in AK, are root parasites of almost any plant they can reach. Favorite hosts are grasses and the pea family (perhaps because pea family plants can fix nitrogen).



Hulten Family

Hulten Name

Hulten page

Accepted

Scrophulariaceae*

Pedicularis capitata

825

no

Scientific Name

Common Name

Family

Pedicularis labradorica

Labrador Lousewort

Orobanchaceae

Labrador Lousewort- Flowers yellow or reddish (or w/ red spot), small, in leaf axils, on many flower stalks. Bogs, tundra & woods.



Hulten Family

Hulten Name

Hulten page

Accepted

*Scrophulariaceae**

Pedicularis labradorica

820

no

Scientific Name

Phlox alaskensis

Common Name

Alaska Phlox

Family

Polemoniaceae

Alaska Phlox- mat-forming. Leaves sharp-tipped, glandular-hairy, fringed w/ long hairs. Flowers pink or whitish to lilac, on sticky stalks vs Richardson's Phlox- Appears **much like a smaller version of Alaska Phlox**. Mostly Arctic coast, also south in parts of the Yukon and Alaska.



Hulten Family

Polemoniaceae

Hulten Name

Phlox sibirica

Hulten page

765

Accepted

yes

Scientific Name

Physaria arctica

Common Name

Arctic Bladderpod

Family

Brassicaceae

Bladder Pod (*Physaria arctica*)



Hulten Family

Brassicaceae

Hulten Name

*Lesquerella arctica**

Hulten page

517

Accepted

no

Scientific Name

Common Name

Family

Pinguicula vulgaris

Common Butterwort

Lentibulariaceae

Common Butterwort (*Pinguicula vulgaris*)- Name refers to leaves look like butter coated. leaves attract & digest insects. Scape glandular-pubescent, flowers larger vs. Small Butterwort- **villous hair on scape & smaller flowers (7mm).**



Hulten Family

Hulten Name

Hulten page

Accepted

Lentibulariaceae

Pinguicula vulgaris

829

yes

Scientific Name

Common Name

Family

Polemonium acutiflorum

Tall Jacob's Ladder

Polemoniaceae

Tall Jacob's Ladder (*P. acutiflorum*)- Corolla lobes acuminate, margins ciliate, throat white. Anthers yellow. Leaflets glabrous (or nearly so), sharply pointed. vs. *P. boreale*- Corolla lobes broadly rounded, margins glabrous, throat yellow. Anthers white. Leaflets 10 or less / side, viscid-pubescent, not sharply pointed tips. Both very common in AK.



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

Polemoniaceae

Polemonium acutiflorum

767

yes

Scientific Name

Potentilla biflora

Common Name

Two-flowered Cinquefoil

Family

Rosaceae

Two-flowered Cinquefoil- **Leaves deeply divided to the base into linear lobes (w/ sparse long white hairs)**. Petals 5-10 mm long. Rootstock thick woody covered w/ marcescent leaf bases. Rocks & rocky slopes.



Hulten Family

Rosaceae

Hulten Name

Potentilla biflora

Hulten page

610

Accepted

yes

Scientific Name

Potentilla nivea

Common Name

Snow Cinquefoil

Family

Rosaceae

Snow Cinquefoil (*P. nivea*)- Petioles & lower stem woolly but no long silky hairs. Epicalyx bractlets narrowly to broadly lanceolate or elliptic; central leaflets: teeth (2-)3-5(-6) per side, upper surfaces usually green, sometimes grayish green.



Hulten Family

Rosaceae

Hulten Name

Potentilla nivea

Hulten page

614

Accepted

yes

Scientific Name

Common Name

Family

Pseudocherleria macrocarpa

Longpod Sandwort

Caryophyllaceae

Longpod Sandwort (*M. macrocarpa*)- **Petals > 2x longer than sepals**. Leaves flat, linear to lance shaped, 3 nerved, **margin w/ long cilia**. **Capsules 10-18mm, >2x length of sepals** vs. Reddish Sandwort (*M. rubella*)- **Stalks glandular**. **Leaves small thin linear-subulate w/ 3 nerves** (most easily seen on last year's marscescent remnants). **Sepals pointed**.



Hulten Family

Hulten Name

Hulten page

Accepted

Caryophyllaceae

*Minuartia macrocarpa**

429

no

Scientific Name

Common Name

Family

Pyrola asarifolia asarifolia

Pink Pyrola

Ericaceae

Pink Pyrola (*P. asarifolia*)- **Flowers pinkish**, Spike 8-10" w/ nodding flowers. Leaves round, wintergreen. Styles protruding vs. *P. chlorantha* smaller leaves, flowers greenish-white vs *P. grandiflora* large leaves, **Flowers large white or greenish-white** vs. Sidebells Wintergreen- **thinner more pointed leaves, very small green bell-shaped flowers on one side of curved stem**. All these **Wintergreens** can photosynthesize under shallow snow.



Hulten Family

Hulten Name

Hulten page

Accepted

*Pyrolaceae**

Pyrola asarifolia

711

no

Scientific Name

Common Name

Family

Ribes triste

Red Currant

Grossulariaceae

Red Currant (*R. triste*) - **Usually upright (not sprawling). Bark shredding.** Sepals very small reddish to purplish. Ovary w/o stalked glands. Racemes drooping vs. **All other Ribes have strong odor & bark not shedding.**



© 2022 Dennis Ronsse

Hulten Family

*Saxifragaceae**

Hulten Name

Ribes triste

Hulten page

592

Accepted

no

Scientific Name

Sabulina rubella

Common Name

Reddish Sandwort

Family

Caryophyllaceae

Reddish Sandwort (*S. rubella*)- **Stalks glandular. Leaves small thin linear-subulate w/ 3 nerves** (most easily seen on last year's remnants). **Sepals pointed** vs. Large-pod & Arctic Sandworts w/ **rounded sepals** & marscescent leaves not 3 nerved.



© 2022 Dennis Ronsse

Hulten Family

Caryophyllaceae

Hulten Name

*Minuartia rubella**

Hulten page

433

Accepted

no

Scientific Name

Common Name

Family

Salix arctica

Arctic Willow

Salicaceae

Arctic Willow (*S. arctica*)- Dwarf alpine shrub. Leaf margins entire usually w/ long hairs "bearded" at tip. Seed capsules very hairy to sparsely. stems not felty, small tan bract at base of each capsule. Catkins long & stout on leafy shoots. Young male catkins red or purple, often used in rock gardens.



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

Salicaceae

Salix arctica

340

yes

Scientific Name

Salix niphoclada

Common Name

Barren-Ground Willow

Family

Salicaceae

Barren-Ground Willow (*S. niphoclada*)- Shrub to 1m tall. **Twigs reddish-brown to yellowish-brown densely hairy when young.** Petioles reddish less than 3cm. **Catkins loosely flowered.**



Hulten Family

Salicaceae

Hulten Name

Salix niphoclada

Hulten page

349

Accepted

yes

Scientific Name

Common Name

Family

Salix reticulata

Netleaf Willow

Salicaceae

Netted Willow (*S. reticulata*)- Tundra. Dwarf. Leaves w/ prominent leathery net like veins, glabrous w/ red petioles. An important "tundra greens" food for some Native people of the Far North.



Hulten Family

Hulten Name

Hulten page

Accepted

Salicaceae

Salix reticulata

336

yes

Scientific Name

Common Name

Family

Salix rotundifolia dodgeana

Timberline willow

Salicaceae

Differing from ssp rotundifolia in being densely caespitose and mat forming, leaves smaller and narrower, venation on top of leaves less prominent. Calcareous plateaus and scree.



Hulten Family

Hulten Name

Hulten page

Accepted

Salicaceae

*Salix rotundifolia**

339

no

Scientific Name

Common Name

Family

Salix rotundifolia rotundifolia

Least Willow

Salicaceae

Least Willow- Densely matted alpine 2.5 cm tall. **Leaves shiny on both surfaces, and leaves w/ 2-3 pairs of veins. Capsules glabrous.**



Hulten Family

Hulten Name

Hulten page

Accepted

Salicaceae

Salix rotundifolia

339

yes

Scientific Name

Saxifraga cernua

Common Name

Bulblet Saxifrage

Family

Saxifragaceae

Bulblet Saxifrage- **Leaves smaller than most others continue up the stem.** Flowers white. **Red bulblets (new plants) on the stem.**



© 2022 Dennis Ronsse

Hulten Family

Saxifragaceae

Hulten Name

Saxifraga cernua

Hulten page

575

Accepted

yes

Scientific Name

Common Name

Family

Saxifraga cespitosa

Tufted Saxifrage

Saxifragaceae

Tufted Saxifrage (*S. cespitosa*)- Small (3-15 cm). Densely tufted (or matted). Basal leaves w/ 3-5 **finger-like lobes, sticky glandular**. Stem leaves small, very few.. Flowers white 1-5 / stem in loose cluster Stony slopes, sandy places. vs. *S. adscendens* (Wedge-leaf Saxifrage)- Very small (2-10 cm). Forms tiny tufts (not mats). Basal leaves wedge-shaped w/ 3 **shallow lobes at the tip**. Flowering stems glandular (often red), several leaves. Petals white.



Hulten Family

Saxifragaceae

Hulten Name

*Saxifraga caespitosa**

Hulten page

583

Accepted

no

Scientific Name

Common Name

Family

Saxifraga eschscholtzii

Ciliate Saxifrage

Saxifragaceae

Cushion Saxifrage (*S. eschscholtzii*)- Inconspicuous, very compact alpine plant, mostly crevices & rock ledges. **Leaves w/ long cilia wrapping wart-like leaf clusters.** Flowers very small, yellow turning to red.



Hulten Family

Saxifragaceae

Hulten Name

Saxifraga eschscholtzii

Hulten page

566

Accepted

yes

Scientific Name

Common Name

Family

Saxifraga funstonii

Yellow Spotted Saxifrage

Saxifragaceae

Yellow Spotted Saxifrage (*S. bronchialis* ssp *funstonii*)- **Basal leaves in sausage-like clusters, each leaf bristle edged with a sharp tip. Petals white or cream-colored w/ yellow spots.** vs Prickly Saxifrage (*S. tricuspidata*)- **Leaves w/ 3 spine tipped teeth. White flowers w/ lavender spots.**



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

Saxifragaceae

Saxifraga bronchialis ssp *funstonii**

570

no

Scientific Name

Saxifraga hyperborea

Common Name

Pygmy Saxifrage

Family

Saxifragaceae

Pygmy Saxifrage (*S. hyperborea*)- usually smaller (2-5 cm) and reddish (sometimes green), with usually three- to five-lobed leaves and petals about one and one-half times longer than sepals vs. *S. rivularis*- taller (5-10 cm) and usually green (although sometimes reddish, particularly in the western var. *arctolitoralis*), with usually five-lobed leaves and petals two to three times longer than sepals.



Hulten Family

Saxifragaceae

Hulten Name

Saxifraga rivularis var. *flexuosa**

Hulten page

577

Accepted

no

Scientific Name

Common Name

Family

Saxifraga oppositifolia smalliana

Purple Mountain Saxifrage

Saxifragaceae

Purple Mountain Saxifrage (*Saxifraga oppositifolia ssp smalliana*)- Flowers very early, often calcareous rocks.



Hulten Family

Hulten Name

Hulten page

Accepted

Saxifragaceae

Saxifraga oppositifolia ssp smalliana

565

yes

Scientific Name

Common Name

Family

Saxifraga serpyllifolia

Thyme-leafed Saxifrage

Saxifragaceae

Thyme-leafed Saxifrage- Basal leaves shiny, fleshy, spatulate, blunt, entire, glabrous w/ reflexed margins. Petals bright yellow, twice as long as calyx lobes or longer. Rock slides, dry places in mountains.



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

Saxifragaceae

Saxifraga serpyllifolia

567

yes

Scientific Name

Saxifraga setigera

Common Name

Spider Saxifrage

Family

Saxifragaceae

Spider Saxifrage- Plant w/ **several long stolons** ending in bud. Basal leaves in dense rosette, **mucronate, ciliate w/ coarse spiny cillia**. Stony places in mtns.



© 2022 Dennis Ronsse

Hulten Family

Saxifragaceae

Hulten Name

*Saxifraga flagellaris ssp setigera**

Hulten page

569

Accepted

no

Scientific Name**Common Name****Family*****Senecio lugens*****Black-tipped Groundsel*****Asteraceae***

Black-tipped Groundsel (*S. lugens*) - Stems usually solitary, glabrescent. Cauline leaves few. Inflorescence corymbose. ligules yellow to 16mm (usually much less). Bracts black tipped.



© 2022 Dennis Ronsse

Hulten Family**Hulten Name****Hulten page****Accepted***Asteraceae**Senecio lugens*

935

yes

Scientific Name

Common Name

Family

Silene involucrata involucrata

Melandrium

Caryophyllaceae

Melandrium (*Silene involucrata* ssp. *involucrata*)- Flowers usually single or 2-3 together. Calyx longer than broad.



Hulten Family

Caryophyllaceae

Hulten Name

*Melandrium affine**

Hulten page

446

Accepted

no

Scientific Name

Common Name

Family

Silene uralensis uralensis

Nodding Campion

Caryophyllaceae

Silene uralensis uralensis- Flowers 1-3 or more, erect or often nodding, dull purple, red or pink. **Calyx inflated, egg-shaped, hairy w/ 10 prominent brown or purple veins.** vs Beringian Campion (*S. ostenfeldii*)- Usually 3-flowered. **Calyx green or purple veined, mostly ellipsoid.**



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

Caryophyllaceae

Melandrium apetalum var. *glabrum**

445

no

Scientific Name

Stellaria longipes

Common Name

Long-stalked Starwort

Family

Caryophyllaceae

Long-stalked Starwort- Leaves unstalked, stiff shinny yellowish-green or blueish-green. Flowers deeply cleft, sepals 3 veined, papery margined. Stony slopes.



Hulten Family

Caryophyllaceae

Hulten Name

*Stellaria longipes**

Hulten page

419

Accepted

no

Scientific Name

Tephroseris kjellmanii

Common Name

Brown-haired Arctic
Groundsel

Family

Asteraceae

T. kjellmanii- Heads always solitary. **Dense brown woolly hair on upper stems and involucral bracts.** vs. *T. frigida*- **Heads always solitary. Purplish-septate hair on Involucral bracts** (and sometimes also white-woolly). The most widespread *Tephroseris* in AK, only one in SC AK, one record by Al Batten, Billy Mtn.



© 2022 Dennis Ronsse

Hulten Family

Asteraceae

Hulten Name

*Senecio atropurpureus ssp tomentosus**

Hulten page

928

Accepted

no

Scientific Name

Common Name

Family

Vaccinium uliginosum

Bog Blueberry

Ericaceae

Bog Blueberry (*V. uliginosum*)- **Twigs rounded. Plant small, <40 cm tall. Leaf margins entire.**
vs. Dwarf Blueberry Twigs rounded. Plant small, <40 cm tall, **Leaf margins finely toothed.** vs Early
Blueberry & Red Huckleberry- **Twigs angled. Plant large, > 60 cm tall.**



© 2022 Dennis Ronsse

Hulten Family

Hulten Name

Hulten page

Accepted

Ericaceae

Vaccinium uliginosum

734

yes

Scientific Name

Common Name

Family

Vaccinium vitis-idaea

Lingonberry

Ericaceae

Lingonberry- Low growing evergreen shrub. **Leaves evergreen, shiny, hard w/ margins curled, dark spots underneath.** Flowers pinkish at branch tips. Good tasting berries improve with frost (still good in spring).



Hulten Family

Hulten Name

Hulten page

Accepted

Ericaceae

Vaccinium vitis-idaea

731

yes

Scientific Name

Common Name

Family

Wilhelmsia physodes

Merkia

Caryophyllaceae

Merkia (*Wilhelmsia physodes*)- Flowers white, petals pointed at the tip and stalk-like at the base. Stems & rhizomes form mats. "Physodes" means inflated or puffed-out, referring to the capsule shape. Found on moist mud or sand.



Hulten Family

Hulten Name

Hulten page

Accepted

Caryophyllaceae

Wilhelmsia physodes

437

yes