



Quick Guide to the Plants of Barrow & Atqasuk

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Version: 6/6/2012

- Gentianaceae**.....Other Forbs, p. 21
Leaves opposite or basal; flowers blue, blue-green to yellow, or white.
- Hippuridaceae**Other Forbs, p. 21
Aquatic; leaves whorled, entire (one species: *Hippuris vulgaris*).
- Onagraceae**Other Forbs, p. 22
Flowers with 4 petals and 4 sepals, pink, purple, or white;
- Papaveraceae**Other Forbs, p. 22
Milky juice; leaves lobed or divided; flowers solitary, showy; stems leafless; flower buds nodding;
2 sepals; petals thin, normally 4.
- Plantaginaceae**Other Forbs, p. 22
Tufted; Leaves oval, forming rosette; flowers creamy white, in spikes, small (one species: *Plantago canescens*).
- Plumbaginaceae**Other Forbs, p. 22
Densely tufted; leaves linear, grayish green; flowering stems leafless; head of flowers spherical,
terminal, flowers in clusters of 3; 5 petals, rose pink (one species: *Armeria maritima*).
- Polemoniaceae**Other Forbs, p. 22
Leaves alternate, pinnately divided (like a fern); flowers blue, showy; 5 petals; 5 sepals
- Polygonaceae**.....Polygonaceae, p. 14
Swollen joints in stem with membranous sheathing stipules above them; flowers small,
petals lacking; 3-6 sepals.
- Primulaceae**.....Other Forbs, p. 23
Leaves mostly basal, simple; flowers with 5 petals, joined into tube at base; stamen opposite petals;
may have simple umbel inflorescence, or petals may be reflexed.
- Pyrolaceae**Other Forbs, p. 23
Leaves simple, evergreen; flowers with 5 petals and 5 sepals; stems leafless; raceme inflorescence.
- Ranunculaceae**.....Ranunculaceae, p. 15
Colorless juice; flowers symmetrical, sepals petal-like;
- Rosacea**Rosaceae, p. 16
Herbs with woody base (one species, *Dryas integrifolia*, included in "Other Shrubs" key)
- Rubiaceae**Other Forbs, p. 23
Stem 4-angled; leaves whorled (one species: *Galium boreale*).
- Scrophulariaceae**.....Scrophulariaceae, p. 19
Flowers in raceme or spike inflorescence, mostly irregular;
- Valerianaceae**Other Forbs, p. 23
Leaves opposite; flowers in terminal head, pink to white; lowermost leaves with slender petiole,
leaves on flowering stem lacking petiole (one species: *Valeriana capitata*).

Monocots

Key

ForbsOther Forbs, p. 20

Graminoids

Cyperaceae (sedges)Sedges and Rushes, p. 3
Sheath closed, stem often has edges, 1 scale subtending each pistil

Juncaceae (rushes)Sedges and Rushes, p. 3
Sheath open, stem round, flowers lily-like with 6 tepals

Poaceae (grasses)Grasses, p. 1
Sheath open, leaves in one plane, terminal inflorescence, 2 scales protecting each flower,
spikelets subtended by 2 glumes

Dicots

WoodyShrubs, p. 6

Herbaceous (see below):

ApiaceaeOther Forbs, p. 20
Stems usually hollow; leaves alternate or basal; compound umbel inflorescence.

AsteraceaeAsteraceae, p. 8
Composite flower heads with disc and ray flowers;

BoraginaceaeOther Forbs, p. 21
Leaves entire, usually rough and hairy; flowers in one sided cymes, flowers blue

BrassicaceaeBrassicaceae, p. 10
Watery juice; leaves alternate, lacking stipules; flowers regular, cruciform,
with 4 petals and 4 sepals, 6 stamen.

CampanulaceaeOther Forbs, p. 21
Milky juice; leaves alternate, simple; flowers showy, usually blue, solitary or few.

CarophyllaceaeCarophyllaceae, p. 12
Leaves opposite, entire; flowers regular with distinct petals and sepals;
5 stamen closely surrounding one style.

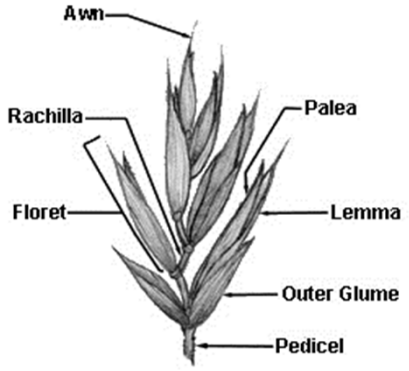
FabaceaeFabaceae, p. 13
Leaves compound; flowers irregular; 5 petals typically with upper middle one largest,
two lateral ones (wings) similar, and the two lowest ones united (keel).

FumariaceaeOther Forbs, p. 21
Watery juice; leaves few, dissected, from lower part of stem; leaflets with 3-4 sections;
flowers irregular; sepals small, scalelike; petals sky blue (one species: *Corydalis pauciflora*).

Spikelets without own pedicel (supporting stalk)

Spikelets in groups of 2 or more

Single spikelet at each node



Spikelet

Elymus arenarius

Leaves pale grey or bluish green

Glumes hairy, lemma awnless

Hairs on upper part of stem

Standing dead present

Spikelet has many small, narrow projections

Spike dense

Leaves rough

Nodes with short hairs

Agropyron boreale

*Grows in tufts

Spikelet lacking projections

Glumes hairy, lemma awnless

Leaves pale grey or bluish green

Hairs on upper part of stem

Standing dead present

Elymus arenarius

Spikelets each with own pedicel

Spikelet has one flower only

Inflorescence spikelike

Inflorescence not spikelike

Alopecurus alpinus

Inflorescence cylindrical, woolly, light grey

Leaves have hairs on upper surface of veins

Leaf blade short and flat

Inflorescence wider

Inflorescence narrow

Lemmas surrounded by tufts of hair at base

Lemmas not surrounded by tufts of hair at base

Arctogrostis latifolia

Leaves rough, flat, wide

Leaves generally blue-ish

Stem smooth

Inflorescence closed

Phippsia algida

Stem barely longer than leaves

Inflorescence narrow

Leaves boat shaped at tip

Leaves yellowish-green

Grows in tufts

Awn longer than glumes

Calamagrostis purpurascens

Leaves very rough, especially margins

Leaves much shorter than stem

Stem rough

Inflorescence dense

Inflorescence purple to bronze

*Grows in tufts

Awn shorter than glumes

Calamagrostis holmii

Inflorescence closed, feather-like

Leaves curled inward

Stem slender

Leaves almost triangular, greyish green

*Looks similar to *Hierochloe pauciflora*

Calamagrostis inexpansa

Leaves rough on both sides

Leaves flimsy, not firm

Inflorescence open, usually purple tinged

Calamagrostis canadensis

*TALL, very robust

Spikelet has 2 or more flowers →

Spikelet has 2 or more flowers

Spikelet 3 flowered, all at the same level

Spikelet 2 flowered or with 3 flowers on different levels

Lemmas awnless or with apical awn, glumes shorter than first floret

Lemmas with awn arising from back, glumes as long as spikelet

Hierochloe alpina
*Grows in tufts, DRY tundra
Long, twisted awn
Leaves narrow, curled inward, almost round
Leaves yellow-green

Hierochloe pauciflora
*NOT tufted, WET tundra
Awnless
Leaves narrow, curled inward, bluish-green
Plant thin, delicate
Red base typical

Lemmas awned from above middle

Koeleria asiatica
*Loose tufts
Awn straight
Fine hairs on stem
Many basal leaves
Awn bent
Stem hairless or with fine hairs
Fine hairs on leaves, few basal leaves

Trisetum spicatum
*NOT tufted

Lemmas awned from below middle

Glumes and lemmas dark purple
Inflorescence closed

Deschampsia brevifolia
*Grows in dense tufts
Leaves narrow and short
Glumes and lemmas translucent
Inflorescence open
Leaves rough on upper surface

Deschampsia caespitosa
*Tufted

Glumes longer than spikelet

Glumes shorter than spikelet

Dupontia fisheri
Inflorescence closed
Glumes purple at base, bronze tips
Stem smooth
Leaves large, curled, purplish

Bromus pumellianus
Leaves and stem with or without hairs
TALL (50-100cm)
Glumes unequal

Lemmas have bifid tip

Lemmas not bifid at tip

Glumes shorter than lowermost floret

Glumes as long as lowermost floret

Nerves of lemma converging

Nerves of lemma parallel

Arctophila fulva
Inflorescence has long, drooping branches
WET TUNDRA
Stem smooth, leafy
Leaves broad, smooth, reddish
Ligule membranous

Puccinellia borealis
*Tufted
Inflorescence open
Spikelets green or purple
Basal sheaths reddish
Leaves flat

Puccinellia borealis
*Tufted
Inflorescence closed
Spikelets green or purple
Plant reddish

Puccinellia langeana
*Tufted
Inflorescence closed
Spikelets pale
Stem bent at base
Leaves bright green

Puccinellia phryganodes
*Tufted

Lemmas awned

Lemmas awnless

Festuca rubra
*Loosely tufted
Inflorescence open
Stem smooth
Basal leaves hairy

Festuca altaica
*Densely Tufted
Inflorescence open
Leaves rough, curled
Firm tussocks

Festuca brachyphylla
*Densely Tufted
Inflorescence closed
Leaves smooth, stiff
Stem smooth, wiry

Poa arctica
*Not tufted
Palea hairy
Leaves curled inward
Leaves purplish

Poa alpigena
*Not tufted
Palea hairless
Stem smooth
Leaves soft

Poa alpina
*Tufted
Inflorescence more narrow
Stem smooth, wiry
Leaves abruptly pointed
Persistent white sheaths

Poa glauca
*Densely Tufted
Stem slightly rough
Ligules short, terminates abruptly

SEDGE-Sheath closed, 1 scale per pistil

Large bristles- cottongrass

Flowers otherwise

Spikes several, with bracts

Eriophorum angustifolium

- Stem smooth, hairless
- Leaves flat, then folding at tip
- Sheaths persistent, brown
- Stem rough
- Leaves more narrow, flat but folding at tip

Eriophorum triste

- Sheaths persistent, brown

Spikes solitary, no bracts

Eriophorum russeolum

- *Not tufted
- Leaves channeled, very thin, round
- White to pale rusty

Eriophorum vaginatum

- *Tufted, dense tussocks
- Leaves trigonous, thin, lighter green
- Grows in dense tufts

Perigynium lacking

Kobresia myosuroides

- *Tufted
- Spike linear
- Leaves coiled, numerous
- Old sheaths dense, brown

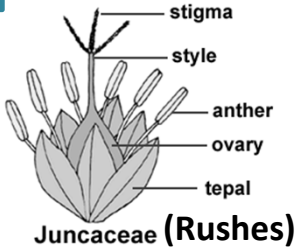
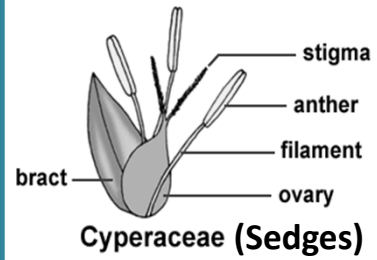
Kobresia sibirica

- *Tufted
- Spike oval-oblong
- Leaves linear, narrow
- Sheaths brownish

Perigynium present

CAREX

(See Carex key)



RUSH-Sheath open, flowers lily-like with 6 tepals

Leaves and sheaths with few white hairs

No hairs present

Flowers solitary end of branches

- Branches brown with curly hairs
- Branches drooping
- Usually 2 cauline leaves
- Leaves shiny, thin

Luzula wahlenbergii

- *Tufted

Flowers crowded in spikes

Luzula confusa

- Bract scalelike
- Stem leafy
- Leaves channeled
- Leaves curved, narrow

Luzula arctica

- *Densely tufted
- Bract leaflike
- Leaves hairy
- Stem leafy
- Leaves flat, wide, short

Inflorescence lateral

Juncus arcticus

- Inflorescence dense, light brown
- Stem thin, wiry
- Reddish brown wiry sheaths
- Rhizome scaly

Inflorescence terminal

Juncus biglumis

- Bract leaflike
- Stems channeled on one side
- Stem with one leaf, and several bladeless sheaths
- 3-5 flowered head
- Bract scalelike
- Stems stiff
- Leaves with reddish brown sheaths

Juncus triglumis

CAREX

Group 1: Spike single, terminal

Staminate and pistillate flowers on different plants

*3 stigmas
*Perigynia with small hairs
C. scirpoidea
Spikes single
Stem sharply trigonous
Leaves flat
Rhizome black, scaly

Staminate and pistillate flowers on the same spike

Staminate flowers at base

C. ursina
Stems barely longer than leaves, trigonous
Leaf margins curled
Forms dense tufts
Leaves rough along edges

Staminate flowers at apex

Spike round with pointed tip
C. capitata
Leaf margins curled
Stems slender, wiry
Leaves pale green
Sheaths purplish
C. obtusata
Leaves flat
Leaves very thin (1mm)
Rhizome purplish black

Spike oblong or linear
Spike single
*Densely tufted
C. nardina
Leaves as long as stems
Leaves trigonous, curved
Cylindrical
Brown sheaths
Stems rough
Leaves greyish green, curly
C. rupestris

Group 2: Spike compound, attached directly, bisexual

Stem simple

Staminate flowers at base of spike
Terminal spike tapers at base
Stems stiff
Leaves flat, yellow-green, short
C. lachenalii
Sheaths straw colored
× 1/2
Terminal spike club-like
Stems rough
Leaves narrow (<2mm)
C. glareosa

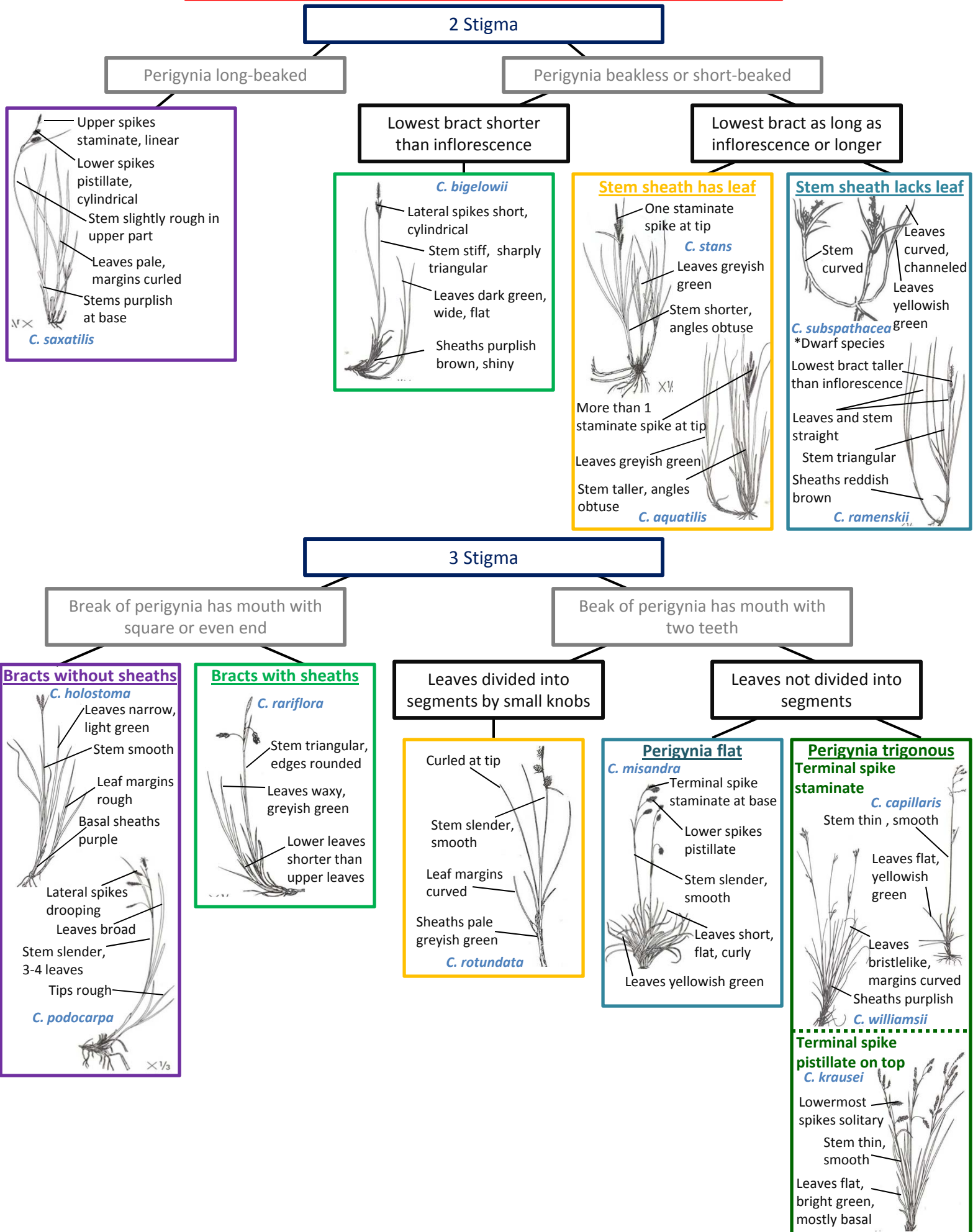
Staminate flowers at apex of spike
C. maritima
Spike round or oval
Stems curved
Leaves gray-green, curved, narrow
Blades of lower sheaths short or absent

Stem branching

3-8 spikes in ovoid head
Stem smooth, flattened, triangular
Fertile stems from nodes of old stems
Leaves channeled
Leaves rough at tips
C. chordorrhiza

Group 3 on next page →

Group 3: Spikes compound, mostly unisexual, each with solitary stalk



Petals lacking or not visible

Lacking catkins

Evergreen
Leaves alternate or whorled
Leaves linear to narrow elliptical
Berries purplish black
Empetrum nigrum

Catkins

Leaves mostly entire;
Many seeded capsule
SALIX
(see *Salix* key)

Leaves serrated;
1 seeded winged nutlet
Betula nana
Leaves with 3 pairs of veins
Leaves round, dark green above, light below
Leaf edges crenate
Young branches with resin glands
× 1/2

Petals present

Small, very dense cushions

White to cream
Leaves densely overlapping
Evergreen, small dense rosettes
Diapensia lapponica
Leaves dark green
White
Leaves oblong
Leaves broadest below middle
Dryas integrifolia
Leaves whiteish on underside, dark green and shiny above

Not forming these cushions

Fruit fleshy or dry

Fruit is a berry

Leaves with dense, matted hairs below
Leaves leathery, linear, dark green above
Evergreen
Ledum palustre
White flowers
Pedicels with white or rusty hairs

Leaves without hairs
Fruit is a drupe (fleshy outer part surrounding pit)
Rounded at apex
*Flowers white, drooping
Drupe black
Bark shreddy
× 1/2
Arctostaphylos alpina

Fruit is a dry capsule
Leaves opposite
Flowers white, drooping
Branches stiff
Leaves opposite
Cassiope tetragona
Leaves alternate

Flowers purple
Leaves round, rough
Twigs scaly
Rhododendron lapponicum
Flowers pink
Leaves oblong, evergreen, deeply grooved
Andromeda polifolia

Evergreen
Leaves leathery, elliptical
Flowers light pink
Vaccinium vitis-idaea
*Berries red
Stems trailing
Few branches

Deciduous
*Flowers pink
Berries blue
Leaves dull green above
Many branches
Vaccinium uliginosum

Low prostrate shrubs <1ft tall

Long creeping branches

Without creeping branches

Leaves net-veined
Salix reticulata

Margins of leaves subentire to crenate

Leaves nearly round

Leaves dark green and hairless above

Branches light brown, branchlets green

Underside of leaves with silky hairs

Not net-veined

Salix fuscescens

Leaves dark green above, pale below

Leaves entire or toothed on basal half

Veins prominent

Branches reddish brown, shiny

Salix arctica

Leaves dull green, underside hairy

Leaves entire

Leaves variously shaped

Peduncles hairy

Leaves whitish beneath

Branches yellow or greenish-brown

Upper surface of leaves glossy, lower surface pale purplish

Branches hairless or with few hairs

Petioles reddish or yellow

Salix ovalifolia

Not whitish beneath

Forms dense mats

Leaves leathery, glossy

Abundant dead leaves

Branches reddish, glossy

Salix phlebophylla

Leaves very small, 5-14mm

Salix rotundifolia

Few or no dead leaves

Branches mostly below ground

Forms loose mats
*Usually buried in moss

Salix pseudopolaris

Stems pale yellow

Leaves bright green

Leaf margins entire, reddish

Erect shrubs >1ft tall

More than 3ft tall

Less than 3ft tall

Leaves without hairs
Stipules persisting less than one year

Leaves light green

Salix hastata

Stipules persisting several years

Salix lanata
Stipules toothed

Stems with dense hairs

Stipules not toothed

No dense hairs

Salix pulchra

Leaves with hairs on lower surface

Leaves dull green, densely hairy below

Petioles yellow

Leaves tear-drop shaped

Salix glauca

Branches reddish brown to grey

Leaves rounded or blunt

Leaves densely hairy below

Petioles reddish

Branches reddish brown, hairy

Salix brachycarpa

Leaves without hairs
Stipules persisting less than one year

Branches reddish brown, smooth, shiny

Salix fuscescens

Leaves rounded at tip

Leaves dark green above, pale below

Stipules persisting several years

Salix lanata

Stipules large, toothed

Branches reddish brown, densely hairy

Stipules not toothed

No dense hairs

Leaves frequently withering

Salix pulchra

Leaves with hairs on lower surface

Salix brachycarpa

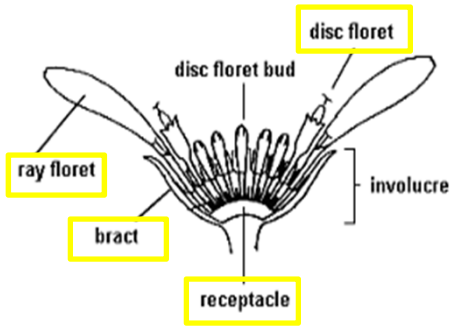
Leaves rounded or blunt

Leaves densely hairy below

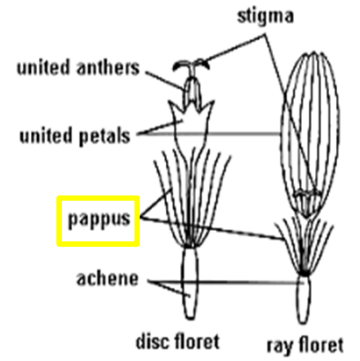
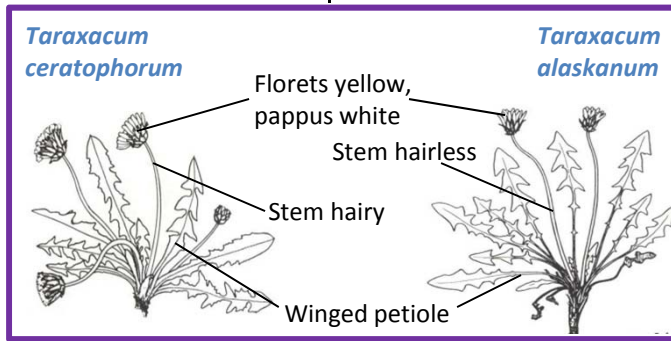
Petioles reddish

Branches reddish brown, hairy

ASTERACEAE



Florets all ray florets

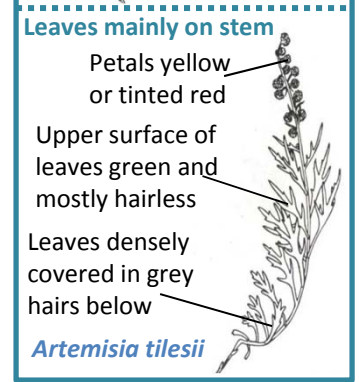
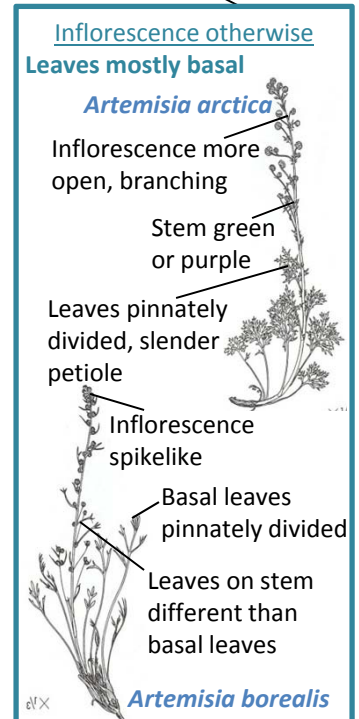
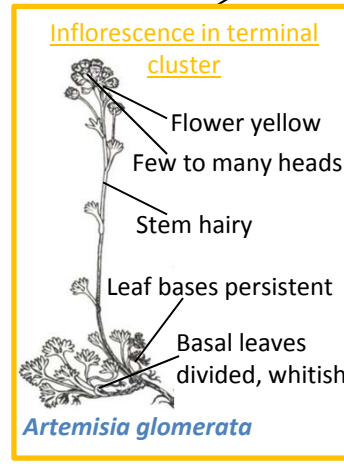
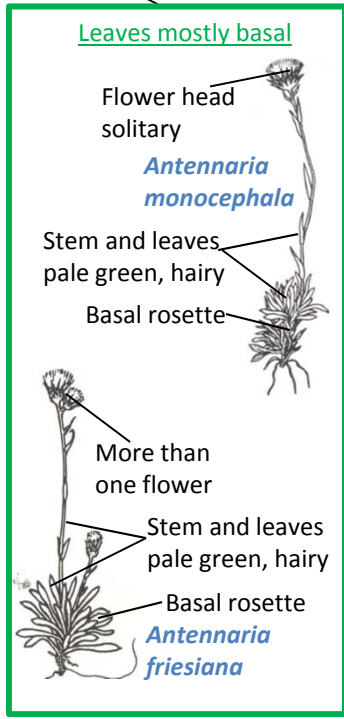
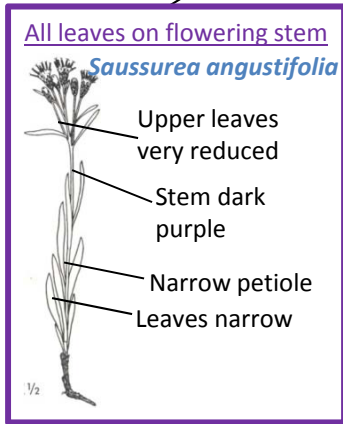


Florets not all ray florets

Disc florets only

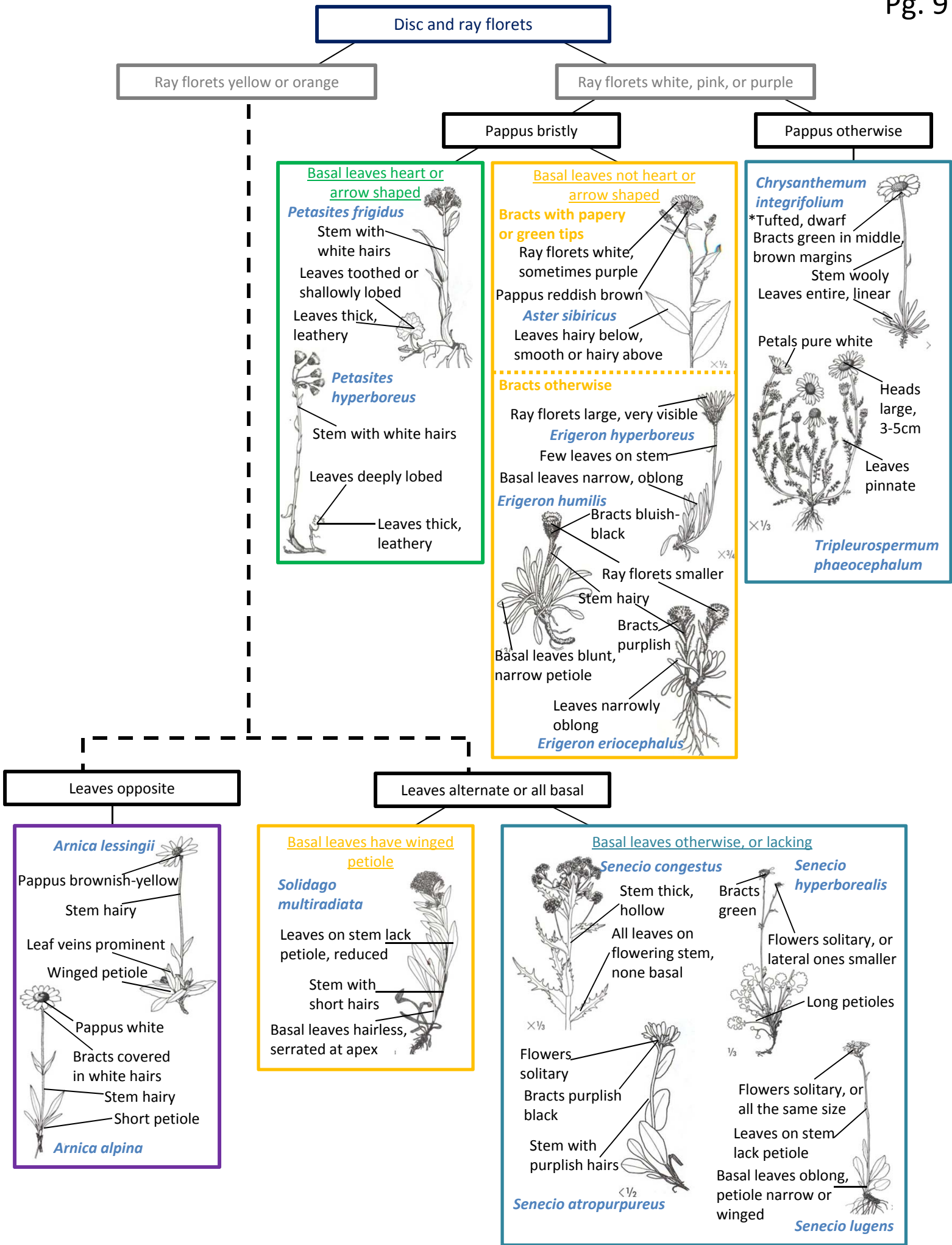
Herbaceous

Subwoody



Disc and ray florets



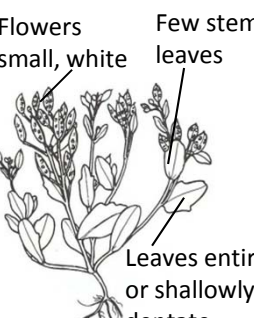


BRASSICACEAE

Pod short, not more than 3 times as long as broad

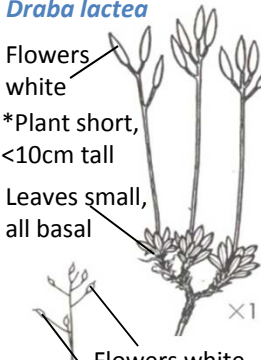
Plant completely hairless

Basal leaves round
Cochlearia officinalis



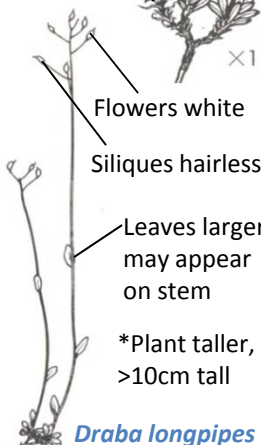
Flowers small, white
Few stem leaves
Leaves entire or shallowly dentate

Basal leaves oblong
Draba lactea



Flowers white
*Plant short, <10cm tall
Leaves small, all basal

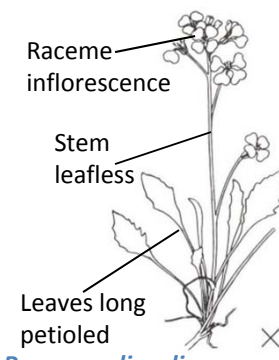
Draba longipes



Flowers white
Siliques hairless
Leaves larger, may appear on stem
*Plant taller, >10cm tall

Plant has small hairs

Petals purple



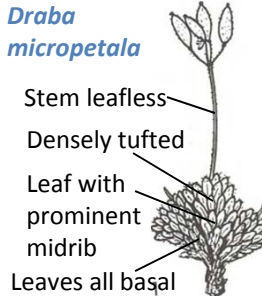
Raceme inflorescence
Stem leafless
Leaves long petioled
Parrya nudicaulis

Petals white or yellow

Petals white

Petals yellow

Draba micropetala

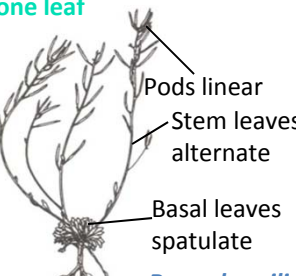


Stem leafless
Densely tufted
Leaf with prominent midrib
Leaves all basal

Pod swollen and constricted at intervals

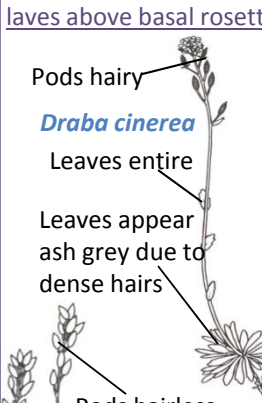
Pod otherwise

Stem has more than one leaf

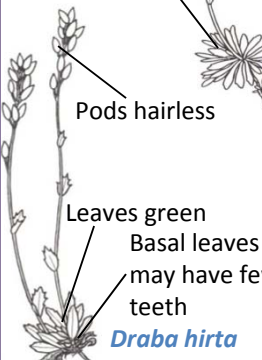


Pods linear
Stem leaves alternate
Basal leaves spatulate
Braya humilis

Stems with 3 or more leaves above basal rosette

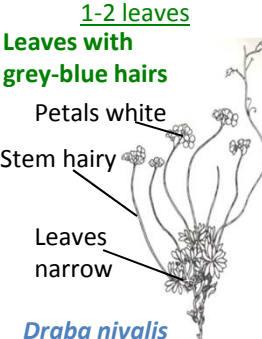


Pods hairy
Draba cinerea
Leaves entire
Leaves appear ash grey due to dense hairs



Pods hairless
Leaves green
Basal leaves may have few teeth
Draba hirta

Stems leafless, or with 1-2 leaves



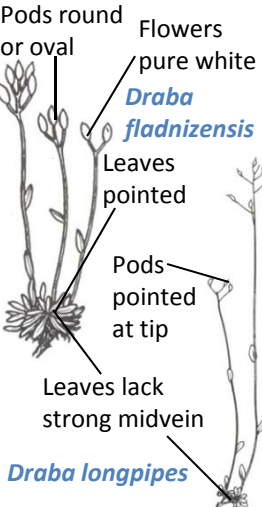
Leaves with grey-blue hairs
Petals white
Stem hairy
Leaves narrow
Draba nivalis

Stem has one or no leaves



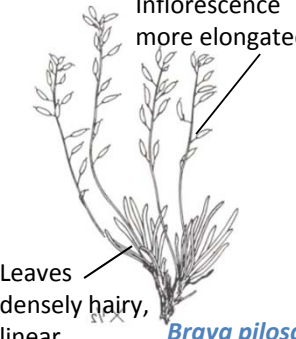
Inflorescence densely compact
Leaves densely hairy
Braya purpurascens

Leaves otherwise



Pods round or oval
Flowers pure white
Draba fladnizensis
Leaves pointed
Pods pointed at tip
Leaves lack strong midvein
Draba longipes
*If plant has hairs, only on pods

Braya pilosa



Inflorescence more elongated
Leaves densely hairy, linear
Braya pilosa

Pod longer, more than 3 times as long as broad (Pg. 2)



Pod longer, more than 3 times as long as broad

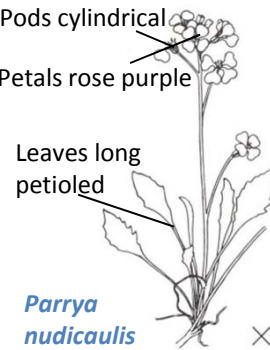
Plant completely hairless

Petals purple

Petals white, pale lavender, or yellow

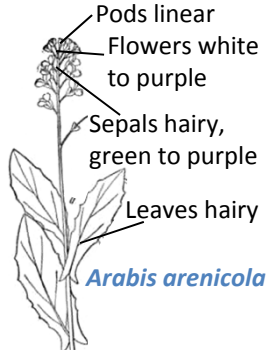
Leaves not pinnate

Pods cylindrical
Petals rose purple
Leaves long petioled



Parrya nudicaulis

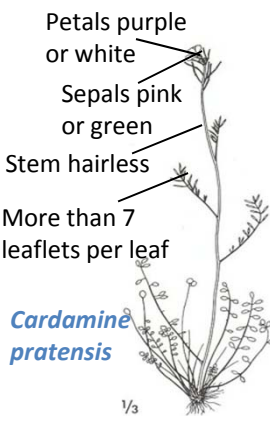
Pods linear
Flowers white to purple
Sepals hairy, green to purple
Leaves hairy



Arabis arenicola

Leaves pinnate

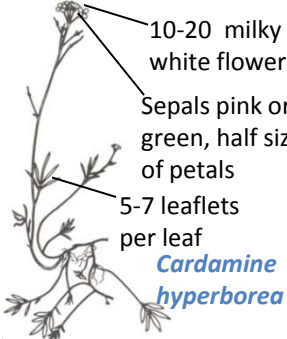
Petals purple or white
Sepals pink or green
Stem hairless
More than 7 leaflets per leaf



Cardamine pratensis

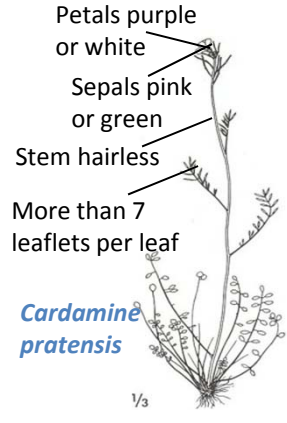
Leaves compound

10-20 milky white flowers
Sepals pink or green, half size of petals
5-7 leaflets per leaf



Cardamine hyperborea

Petals purple or white
Sepals pink or green
Stem hairless
More than 7 leaflets per leaf

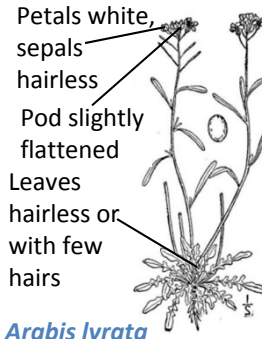


Cardamine pratensis

Leaves simple


Basal leaves lack petiole

Petals white, sepals hairless
Pod slightly flattened
Leaves hairless or with few hairs



Arabis lyrata

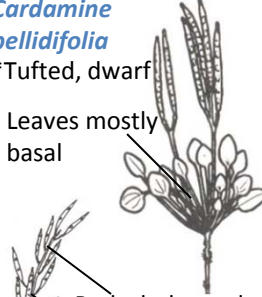
Pods linear
Flowers white to purple
Sepals hairy, green to purple
Leaves hairy



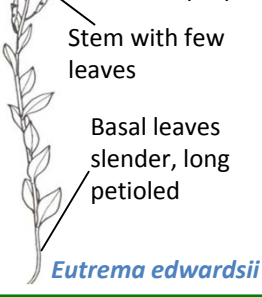
Arabis arenicola

Basal leaves long petioled

Cardamine bellidifolia
*Tufted, dwarf
Leaves mostly basal



Pods dark purple
Stem with few leaves
Basal leaves slender, long petioled



Eutrema edwardsii

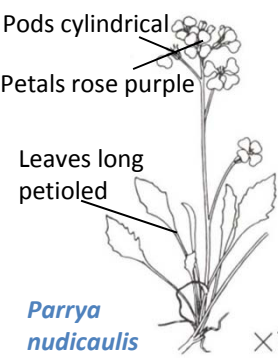
Plant has small hairs

Petals white or purplish

Petals yellow

Pod 4-5mm broad

Pods cylindrical
Petals rose purple
Leaves long petioled



Parrya nudicaulis

Pod narrower

Pod swollen and constricted at intervals

Braya sp.
(see pg. 10, bright blue)

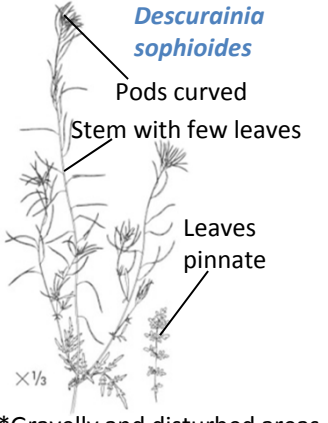
.....

Pod otherwise

Arabis sp.
(see above, teal)

Descurainia sophioides

Pods curved
Stem with few leaves
Leaves pinnate



*Gravelly and disturbed areas

CAROPHYLLACEAE

Sepals and petals free, not united below

Petals deeply notched, or none

Petals entire or shallowly notched

5 Styles, capsule cylindrical

Petals white

Inflorescence small cyme, 3-6 flowers

Cerastium beeringianum

Leaves hairy on both sides

3 Styles, capsule egg-shaped

Leaves firm

Petals white, flowers small

Leaves lack petiole

Stellaria laeta

Leaves shiny

Leaves more broad

Wilhelmsia physodes

Capsule inflated

Sepals purple, petals white

Leaves

Stems hairy opposite

Flower buds spherical, 4-5 styles

Stems hairless

4 Petals, white

Tufted, reddish green

Sagina intermedia

Flower buds oblong, 3 Styles

Leaves 3-nerved

Sepals longer than petals

Petals white

Minuartia rubella

Leaves 1-nerved, or appearing nerveless

Stems and leaves hairless

Leaves trigonous

Minuartia rossii

Leaves stiff

Minuartia obtusiloba

Stems and leaves hairy

Leaves soft

Minuartia arctica

Leaves soft

Stellaria humifusa

*Matted

Petals white, bilobed

Leaves crowded, oval

Stem hairless

Petals white, deep cleft

Leaves limp, drooping

Leaves linear, oblong

Stem hairless

Stellaria crassifolia

Sepals united into a tube, flowers bell shaped

Plant not forming cushion

Plant forming dense cushion

Flowers nodding, petals purple

Stem purplish

Flowers dark purple

Melandrium apetalum

Basal leaves many, larger than stem leaves

Flowers upright, petals white to pink

Sepals purple veined

Stem with white hairs

Melandrium taylorae

Shorter than 30cm

Taller than 30cm

Melandrium affine

Leaves narrow

Sepals green veined

Melandrium triflorum

*Tufted

Stem hairy

Basal leaves linear

Silene acaulis

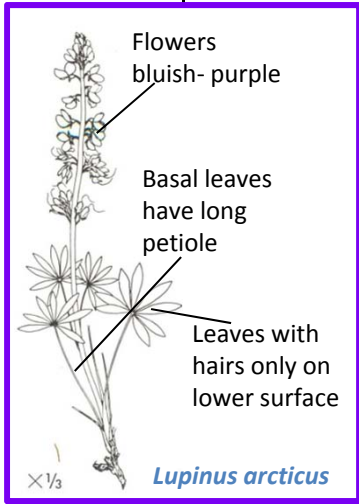
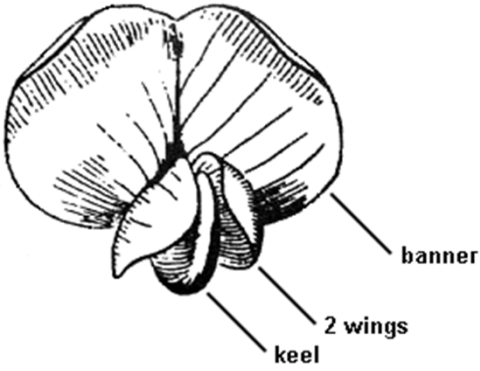
Leaves linear, flat

Petals pink or pale purple

*Forms flat cushions

FABACEAE

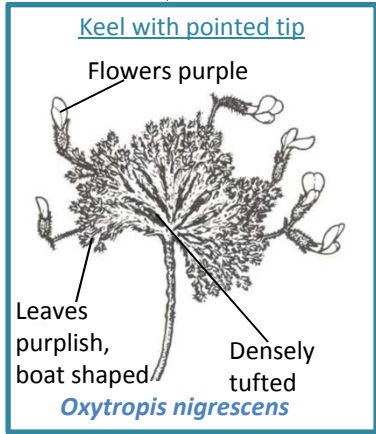
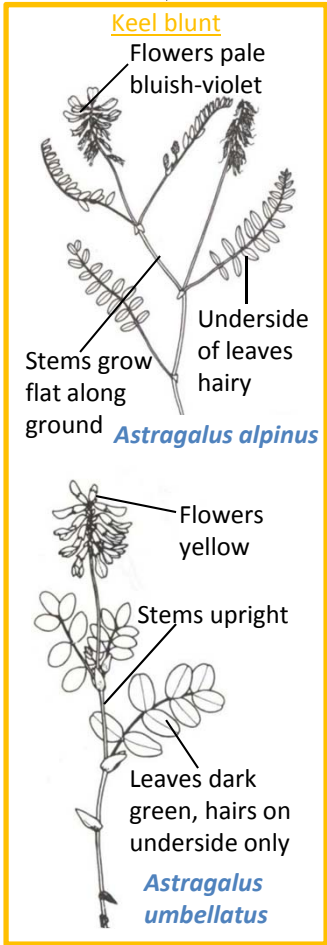
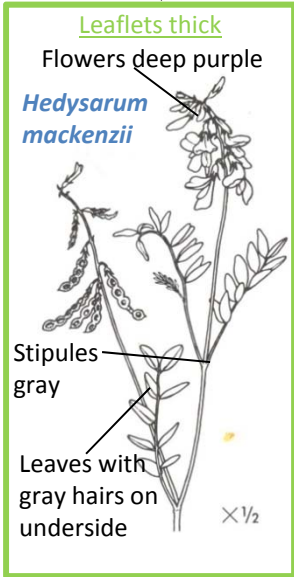
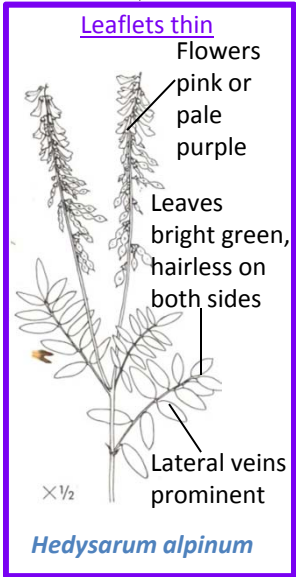
Leaves palmate



Leaves pinnate

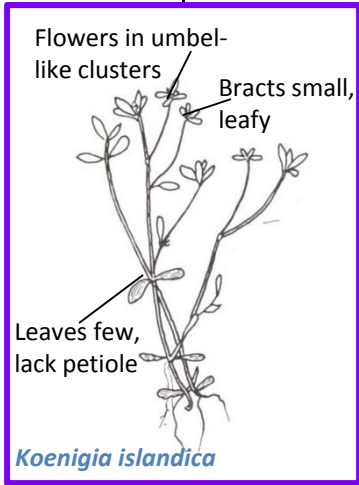
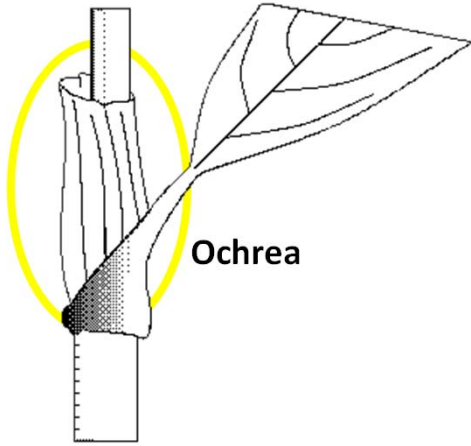
Legumes divided into sections

Legumes not divided



POLYGONACEAE

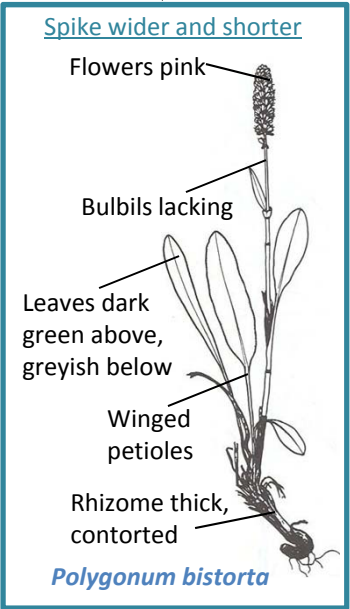
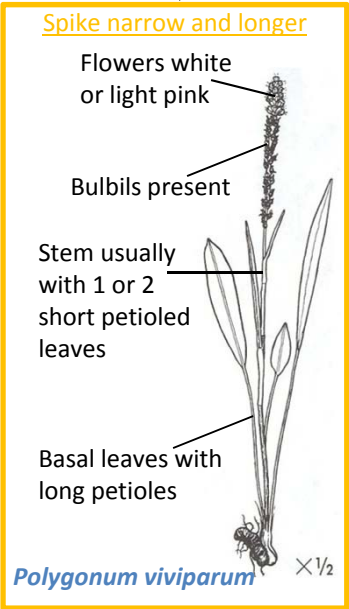
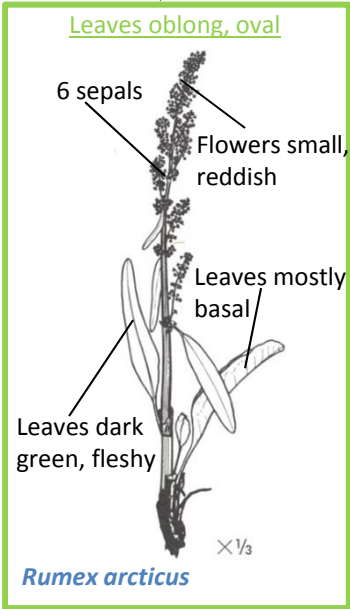
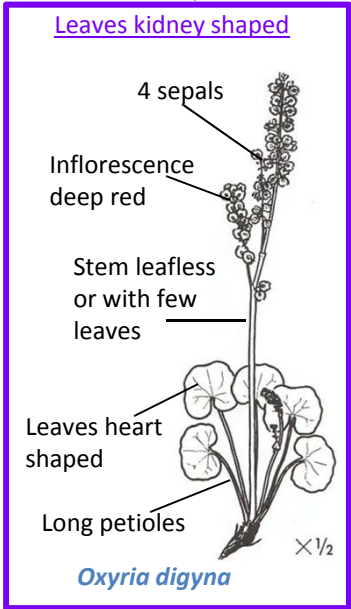
3 petal-like sepals, plant only a few centimeters tall



More than 3 petal-like sepals, larger plants

4 or 6 sepals

5 sepals



RANUNCULACEAE

Petals present

Flowers blue or purple, 4 petals

Flowers yellow or white, 5 petals

Sepals bluish purple
Flowers irregular
Stem hairy
Leaves with 5-7 main lobes

Delphinium brachycentrum

Grows in tufts

Doesn't grow in tufts

Petals shorter than sepals
Leaves deeply cleft, 3-5 lobes
Petals pale yellow

Ranunculus pygmaeus

Petals longer than sepals
Petals five, dark yellow
Leaves deeply lobed, 3 lobes

Ranunculus nivalis

Terrestrial
Petals pale yellow or white
Stem with one or no leaves
Long petioles

Ranunculus lapponicus

Amphibious
Primary divisions of leaves entire
Leaves deeply cleft
Flowers white
Stem hairless, fleshy

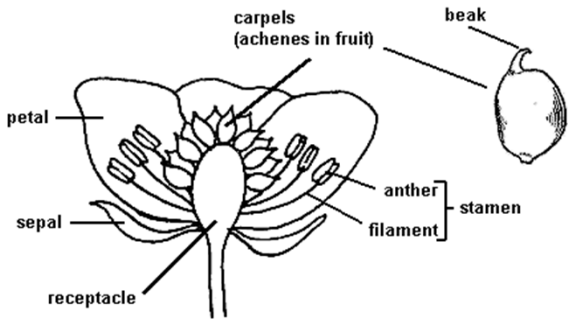
Ranunculus pallasii

Leaves small, lobed
Flowers yellow

Ranunculus hyperboreus
*Densely matted
Primary divisions of leaves again divided

Ranunculus gmelinii
Flowers yellow
Leaves alternate, 3-parted, then divided again
Leaves mostly on flowering stem
Stem hairless or slightly pubescent

SECTION OF A BUTTERCUP FLOWER



Petals lacking, sepals resemble petals

Sepals white or pale blue

Sepals yellow

Grows in tufts
Sepals pale blue
Stem dark brown
Stem leaves lack petiole
Leaves and stem hairy
Leaves divided into 3-4 linear segments

Anemone drummondii

Does not grow in tufts
Sepals white, silky, tinged blue beneath
Stem with white hairs
Leaf lobes bluntly toothed
Leaves dark green, shiny

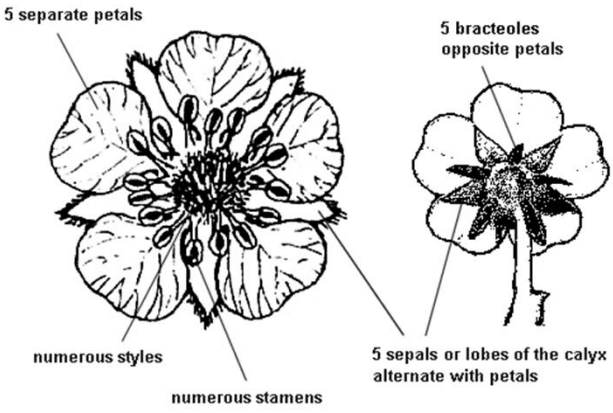
Anemone parviflora

Leaves heart shaped
Leaf margins with rounded serrations
Basal leaves long petioled

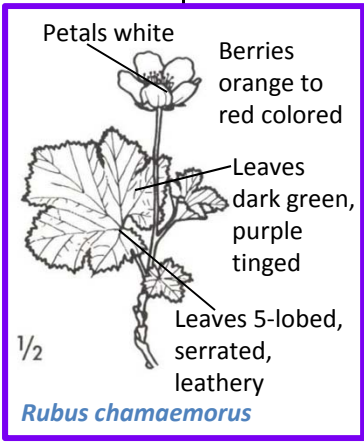
Caltha palustris

ROSACEAE

TYPICAL ROSE FLOWER

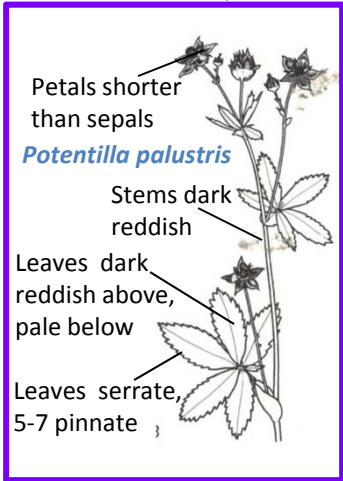


Leaves simple



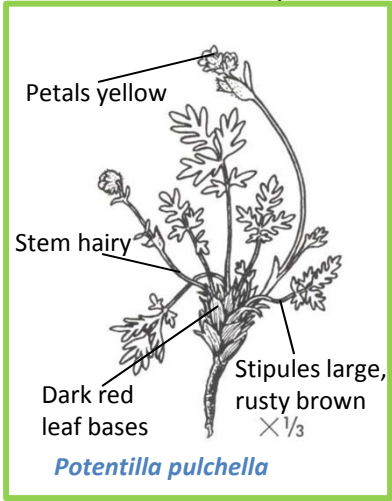
Leaves compound

Petals reddish purple to dark red

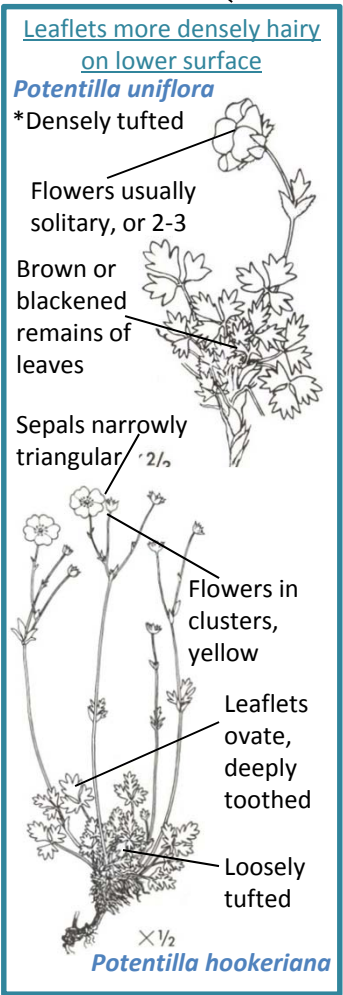
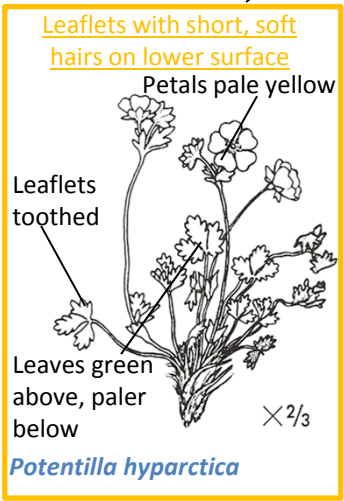


Petals white, cream, or yellow

Leaves pinnate, 5 or more leaflets



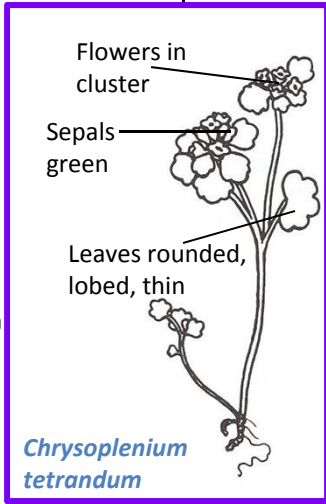
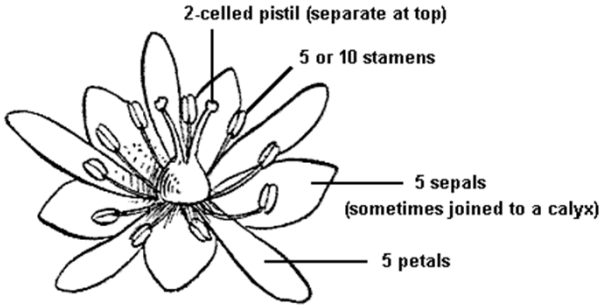
Leaves with 3 leaflets



SAXIFRAGACEAE

Petals lacking

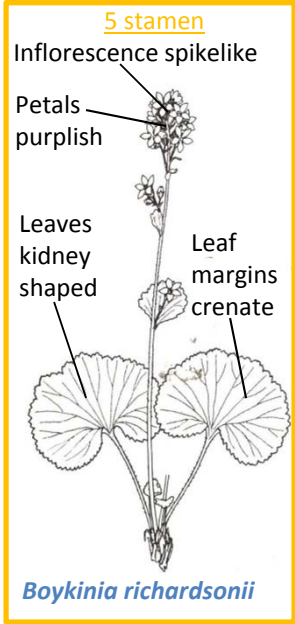
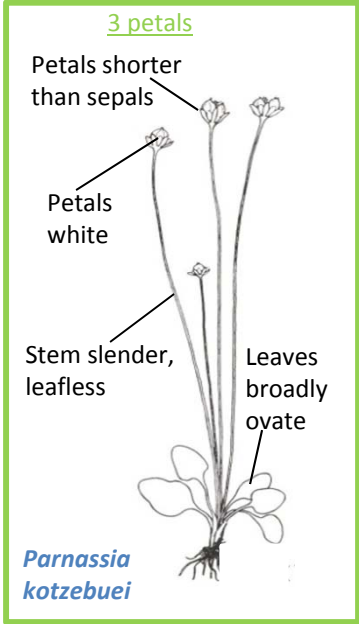
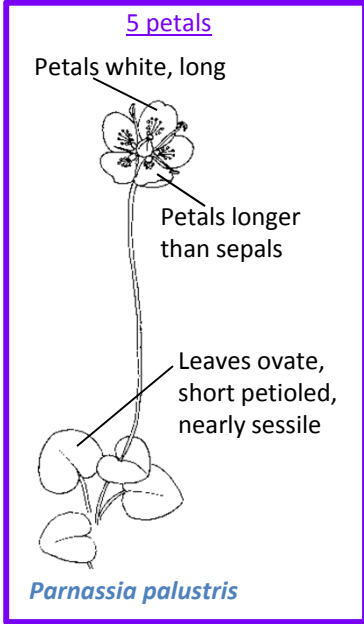
Typical Saxifrage Flower



Petals present

Plant completely hairless

Plant has hairs



Leaves Toothed or Lobed

Flowering stem with many leaves

Flowering stem with few to no leaves

Lacking petiole

Petals white, Sepals purple

Stem hairy

S. caespitosa

Basal leaves form tight cushion

Leaves 3-5 lobed

Petiole

Petals white

Stem hairy

Red bulbets

S. cernua

Leaves 3-5 lobed

Petals white to pink

Sepals green to purple

S. rivularis

Leaves 3-7 lobed

Bulbets lacking

Stem hairy

Leaves Round

S. punctata

Numerous white flowers

Stem may be hairy

Leaves broad, margins crenate

All leaves basal

Leaves Oblong

One terminal flower*

Petals white

*May get flowers here, but not common

S. foliolosa

All leaves basal

No distinct petiole

More than one flower

Inflorescence spikelike

Petals purple at tip, green at base

Bracts leaf-like

Winged petiole

S. hieracifolia

Petals white with 2 yellow spots

Broad petiole

S. reflexa

Dense cluster of flowers at tip

Petals white with pink tip

Leaves with hairs on both sides

Leaves leathery

Underside of leaves hairless

S. nivalis

Leaves Entire

Leaves Opposite

Leaves Alternate

Leaves scale-like

Flowers light pink to purple

Stems woody

Leaves overlapping

S. oppositifolia

Stolons

Petals yellow

Stem leafy

Leaves form basal rosette

Long, slender stolons

S. flagellaris

Lacking stolons

Petals yellow

S. bronchialis

Petals white, often with purple spots

Leaves on stem lack petiole

Stem has reddish-brown hairs

Leaves on stem lack petiole

Stem hairless except in inflorescence

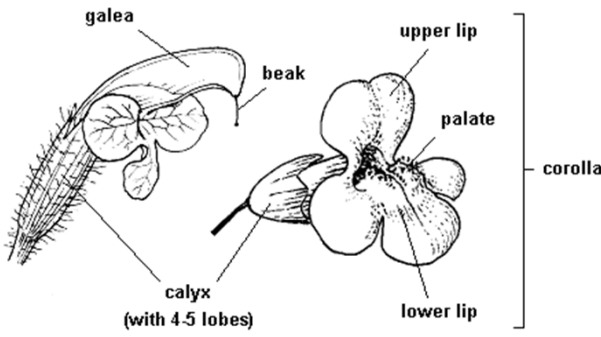
Forms thick mat or cushion

S. hirculus

SCROPHULARIACEAE

2 Stamen

Typical Figwort Flowers



Petals violet to blue

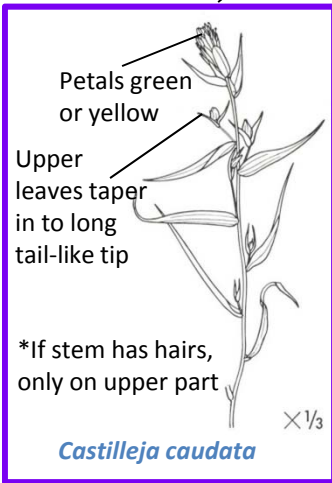
Leafy bracts purple or blue

*Plant hairless

Lagotis glauca

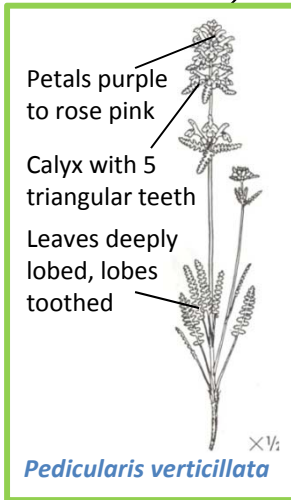
4 Stamen

Leaves entire



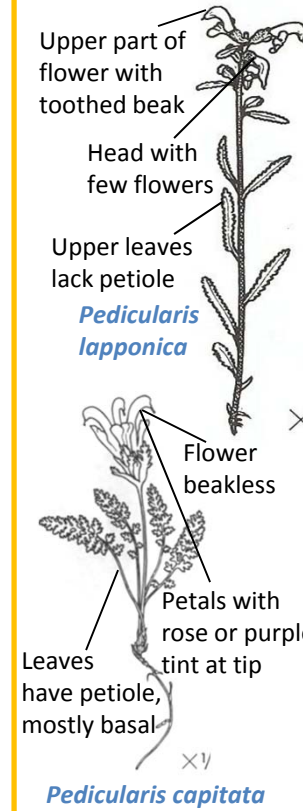
Leaves dissected or toothed

Leaves on stem whorled

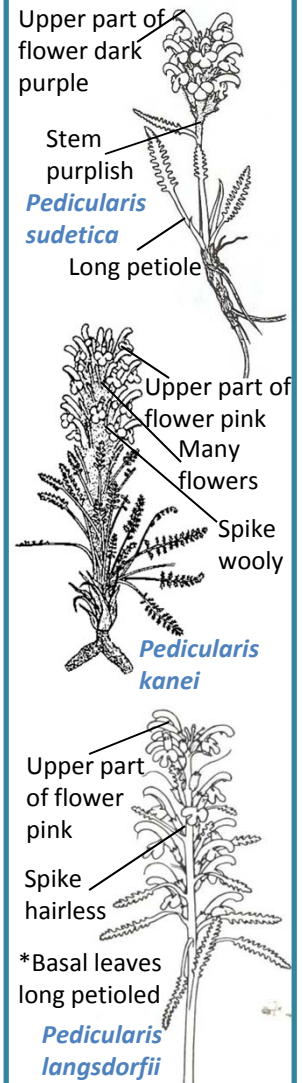


Leaves on stem otherwise

Petals yellow



Petals pink or purple



OTHER FORBS

MONOCOTS

Flowers irregular

Flowers regular

Corallorrhiza trifida

Lateral petals yellow-green, lip white, sometimes with purple spots

Stem yellowish-green

Stems leafless, but sheaths present

Rhizome coral-like

Flowers solitary or few

Flowers numerous

Flower cream with purplish veins, solitary

Leaves narrow, grasslike

Lloydia serotina

Flowers white or greenish-yellow

Raceme inflorescence

Plant somewhat dull grayish-blue

****Poisonous****

Bracts present

Zygadenus elegans

Stem leafless

Stem green

Leaves in fan-like tufts

Tofieldia pusilla

Flowers purplish brown

Stem purplish

Leafy bracts present

Leaves in fan-like tufts

Tofieldia coccinea

DICOTS (organized by family)

APIACEAE

Basal leaves simple, entire

Flowers yellow, sometimes blotched with purple

Compound umbel

Leaves oblong

Bupleurum americanum

Basal leaves compound

Flowers yellow

Compound umbel

Leaves doubly pinnate

Cnidium cniidifolium

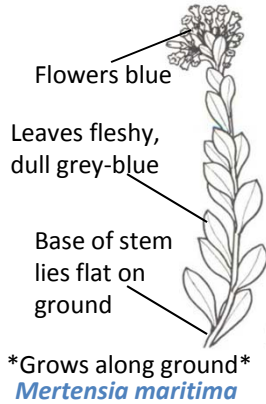
DICOTS cont.

BORAGINACEAE

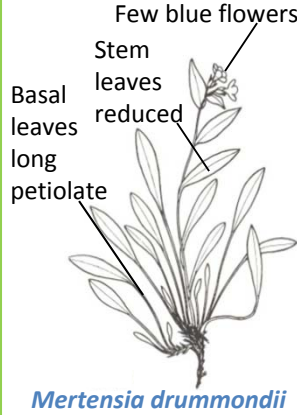
Flowers nodding

Flowers not nodding

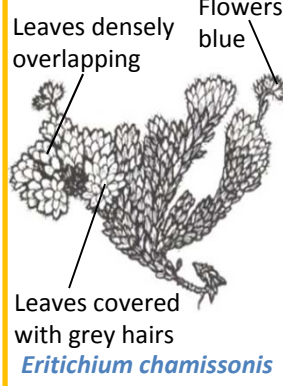
Leaves hairless



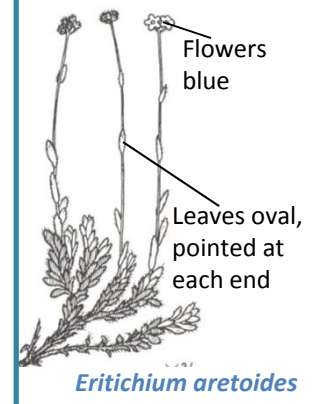
Leaves with hairs



Flowers scarcely exceeding leaves

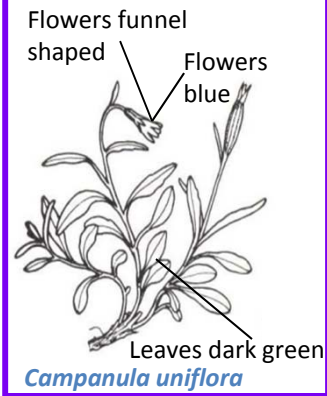


Stems 5-10cm high

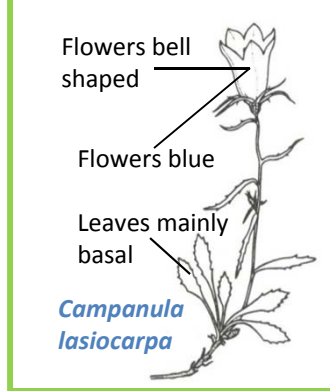


CAMPANULACEAE

Leaves entire

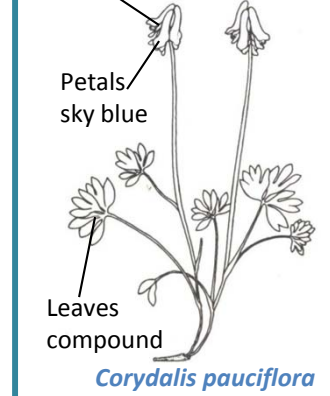


Leaves dentate



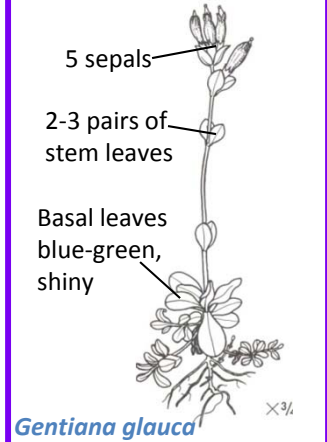
FUMARIACEAE

Flowers irregular

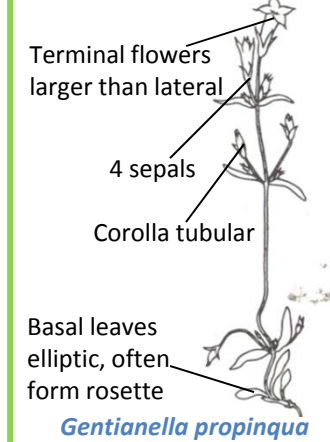


GENTIANACEAE

Flowers blue-green to yellow

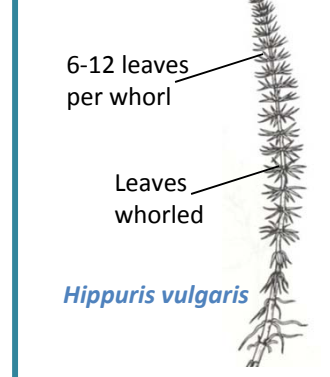


Flowers pale blue to white



HIPPURIDACEAE

Aquatic



DICOTS cont.

ONAGRACEAE

Stem leaves ovate or elliptic

Flowers rose pink to purple

Stem green or reddish

Leaves opposite

Epilobium anagallidifolium ×³/₄

Stem leaves linear

Flowers white to pink

Stem stiff

Leaves linear, lack petiole

Epilobium palustre

PAPAVERACEAE

PLANTAGINACEAE

Capsule slender or oblong, broadest at top

Capsule oval, broadest at middle

Papaver macounnellii

Petals yellow, edges often scalloped

Stems mostly solitary

Leaves grey-green

×¹/₂

Petals white with a salmon or rose tint

<12cm tall

Petals entire

Papaver albosum ×

Petals yellow

Capsule cylindrical

Papaver hultenii

Capsule pear-shaped

Leaf lobes widely separated

Leaf lobes not widely separated

Papaver lapponicum

Inflorescence spike-like

Flowers creamy-white

Plantago canescens

Leaves oval, form rosette

×¹/₂

PLUMBAGINACEAE

POLEMONIACEAE

Inflorescence spherical

Flowers rose pink

Stem leafless

Leaves linear

Armeria maritima

Leaves hairless

Flowers blue to violet

Petals with small hairs

Leaves mostly basal

Polemonium acutiflorum

Leaves with hairs

Flowers blue to violet

Petals hairless

Stem hairy

Polemonium boreale

DICOTS cont.

PRIMULACEAE

Petals reflexed

Flowers magenta to lavender

Dodecatheon frigidum

Leaves oval, margins wavy

Petals not reflexed

Leaves larger, not overlapping

Flowers lavender or white, throat yellow

Sepals green with purple stripes

Leaves elliptic

Primula egaliksensis

Leaves smaller, overlapping

Flowers white to cream, yellow at base

Androsace chamaejasme

Stem hairy

Flowers white

Stem hairless

Leaves reddish

Androsace septentrolalis x3

PYROLACEAE

Inflorescence with flowers on one side

Flowers whitish green

Leaves leathery, edges serrated

Pyrola secunda

Inflorescence cylindrical

Flowers creamy white

Leaves rounded, nearly entire

Pyrola grandiflora

RUBIACEAE

Petals white

Stem square

Leaves whorled

Galium boreale

VALERIANACEAE

Flowers pink to white

Leaves on stem lack petiole

Leaves opposite

Valeriana capitata

Species	Page #				
		Cardamine pratensis	11	Draba longpipes	10
Agropyron boreale	1	Carex aquatilis	5	Draba longpipes	10
Alopecurus alpines	1	Carex bigelowii	5	Draba micropetala	10
Ameria maritima	22	Carex capillaries	5	Draba nivalis	10
Andromeda polifolia	6	Carex capitata	4	Dryas integrifolia	6
Androsace chamaejasme	23	Carex chordorrhiza	4	Dupontia fisheri	2
Androsace septentrolalis	23	Carex glareosa	4	Elymus arenarius	1
Anemone drummondii	15	Carex holostoma	5	Elymus arenarius	1
Anemone parvifolia	15	Carex krausei	5	Empetrum nigrum	6
Antennaria friesiana	8	Carex lachenalii	4	Epilobium anagallidifolium	22
Antennaria monocephala	8	Carex maritime	4	Epilobium palustre	22
Arabis arenicola	11	Carex misandra	5	Erigeron eriocephalus	9
Arabis arenicola	11	Carex nardina	4	Erigeron humilis	9
Arabis lyrata	11	Carex obtusata	4	Erigeron hyperboreus	9
Arctograstis latifolia	1	Carex podocarpa	5	Eriophorum angustifolium	3
Arctophila fulva	2	Carex ramenskii	5	Eriophorum russeolum	3
Arctostaphylos alpina	6	Carex rariflora	5	Eriophorum triste	3
Arnica alpina	9	Carex rotundata	5	Eriophorum vaginatum	3
Arnica lessingii	9	Carex rupestris	4	Eritichium aretoides	21
Artemisia arctica	8	Carex saxitilis	5	Eritichium chamissonis	21
Artemisia borealis	8	Carex scirpoidea	4	Eutrema edwardsii	11
Artemisia glomerata	8	Carex stans	5	Festuca altaica	2
Artemisia tilesii	8	Carex subspathacea	5	Festuca brachyphylla	2
Aster sibericus	9	Carex ursine	4	Festuca rubra	2
Astragalus alpines	13	Cassiope tetragona	6	Galium boreale	23
Astragalus umbellatus	13	Castilleja caudate	19	Gentiana glauca	21
Betula nana	6	Cerastium beeringianum	12	Gentianella propinqua	21
Boykinia richardsonii	17	Chrysanthemum integreifolium	9	Hedusarum mackenzii	13
Braya humilis	10	Chrysoplenium tetrandum	17	Hedysarum alpinum	13
Braya pilosa	10	Cnidium cnidiifolium	20	Hierochloe alpina	2
Braya purpurascens	10	Cochlearia officinalis	10	Hierochloe pauciflora	2
Bromus pumpellianus	2	Corallorrhiza trifida	20	Hippuris vulgaris	21
Bupleurum americanum	20	Corydalis pauciflora	21	Honckenya peploides	12
Calamagrostis Canadensis	1	Delphinium brachycentrum	15	Juncus arcticus	3
Calamagrostis holmii	1	Deschampsia brevifolia	2	Juncus biglumis	3
Calamagrostis inexpansa	1	Descurainia sophoides	11	Juncus triglumis	3
Calamagrostis purpurascens	1	Diapensia lapponica	6	Kobresia myosuroides	3
Caltha palustris	15	Dodecathon frigidum	23	Kobresia sibirica	3
Campanula lasiocarpa	21	Draba cinerea	10	Koeleria asiatica	2
Campanula uniflora	21	Draba fladnizensis	10	Koenigia islandica	14
Cardamine bellidifolia	11	Draba hirta	10	Lagotis glauca	19
Cardamine hyperborea	11	Draba lactea	10	Ledum palustre	6
Cardamine pratensis	11			Lloydia serotina	20

Lupinus arcticus	13	Potentilla hookeriana	16	Saxifraga oppositifolia	18
Luzula arctica	3	Potentilla hyparctica	16	Saxifraga punctata	18
Luzula confusa	3	Potentilla palustris	16	Saxifraga reflexa	18
Luzula wahlenbergii	3	Potentilla pulchella	16	Senecio atropurpureus	9
Melandrium affine	12	Potentilla uniflora	16	Senecio congestus	9
Melandrium apetalum	12	Primula egalikensis	23	Senecio hyperborealis	9
Melandrium taylorae	12	Puccinellia borealis	2	Senecio lugens	9
Melandrium trifolium	12	Puccinellia langeana	2	Silene acaulis	12
Mertensia drummondii	21	Puccinellia phyrganodes	2	Solidago multiradiata	9
Mertensia maritime	21	Pyrola grandifolia	23	Stellaria crassifolia	12
Minuartia arctica	12	Pyrola secunda	23	Stellaria humifusa	12
Minuartia obtusiloba	12	Ranunculus gmelinii	15	Stellaria laeta	12
Minuartia rossii	12	Ranunculus hyperboreus	15	Taraxacum alaskanum	8
Minuartia rubella	12	Ranunculus lapponicus	15	Taraxacum certophorum	8
Oxyria digyna	14	Ranunculus nivalis	15	Tofieldia coccinea	20
Oxytropis nigrescens	13	Ranunculus pallasii	15	Tofieldia pusilla	20
Papaver alboresum	22	Ranunculus pygmaeus	15	Tripleurospermum phaeocephalum	9
Papaver hultenii	22	Rhododendron lapponicum	6	Trisetum spicatum	2
Papaver lapponicum	22	Rubus chamaemorus	16	Vaccinium uliginosum	6
Papaver macounnellii	22	Rumex arcticus	14	Vaccinium vitis-idaea	6
Parnassia kotzebuei	17	Sagina intermedia	12	Valeriana capitata	23
Parnassia palustris	17	Salix arctica	7	Wilhelmsia physodes	12
Parrya nudicaulis	10	Salix brachycarpa	7	Zygadenus elegans	20
Parrya nudicaulis	11	Salix fuscescens	7		
Pedicularis capitata	19	Salix glauca	7		
Pedicularis kanei	19	Salix hastate	7		
Pedicularis lapponica	19	Salix lanata	7		
Pedicularis longsdorfii	19	Salix ovalifolia	7		
Pedicularis sudetica	19	Salix phlebophylla	7		
Pedicularis verticillata	19	Salix pseudopolaris	7		
Petasites frigidus	9	Salix pulchra	7		
Petasites hyperboreus	9	Salix reticulate	7		
Phippsia algida	1	Salix rotundifolia	7		
Plantago canescens	22	Saussurea angustifolia	8		
Poa alpigena	2	Saxifraga bronchialis	18		
Poa alpina	2	Saxifraga caespitosa	18		
Poa arctica	2	Saxifraga cernua	18		
Poa glauca	2	Saxifraga flagellaris	18		
Polemonium acutiflorum	22	Saxifraga foliolosa	18		
Polemonium boreale	22	Saxifraga hieracifolia	18		
Polygonum arcticus	14	Saxifraga hirculus	18		
Polygonum bistorta	14	Saxifraga nivalis	18		
Polygonum viviparum	14	Saxifraga nivalis	18		