

Key to Orchidaceae genera of Idaho and western Washington:

- 1 Plants without green leaves and stems..... 2
 1 Plants with green leaves and green stems..... 3
- 2 Plants pure white with yellow spot on lip..... *Cephalanthera austiniiae*
 2 Plants reddish, yellowish, or greenish (if white, no yellow spot on lip)..... *Corallorhiza*
- 3 Lip an inflated sac-like pouch..... *Cypripedium*
 3 Lip not an inflated sac-like pouch..... 4
- 4 Lip with a slender to saccate spur at base..... 5
 4 Lip lacking a spur..... 7
- 5 Leaves present at flowering; sepals with 3+ nerves..... 6
 5 Leaves generally withering at flowering; sepals with 1 nerve..... *Piperia*
- 6 Lip trifold, tip divided into two larger and one smaller central tooth *Coeloglossum viride*
 6 Lip not trifold, tip not divided into three teeth..... *Platanthera*
- 7 Leaves single, lip slipper-like with tuft of hair..... *Calypso bulbosa*
 7 Leaves 2 or more, lip not slipper-like and lacking tuft of hair9
- 9 Leaves paired and +/- opposite in middle of stem. *Listera*
 9 Leaves not paired in middle of stem..... 11
- 11 Leaves in a basal rosette, evergreen, often mottled; plants with creeping rhizomes.....
 *Goodyera*
 11 Leaves along stem; plants lacking creeping rhizomes..... 12
- 12 Flowers white; inflorescence tightly spiraled; leaves linear-lanceolate..... *Spiranthes*
 12 Flowers greenish to brownish-purple; inflorescence open; leaves lanceolate to ovate
 *Epipactis*

Corallorhiza

- 1 Sepals and petals with prominent reddish-brown stripes; lip lacking spur..... *C. striata*
 1 Sepals and petals lacking prominent reddish-brown stripes; spur small but usually present..... 2
- 2 Lip white, generally not spotted; sepals 1-nerved; ovaries green; plants yellowish or greenish yellow..... *C. trifida*
 2 Lip white with spots or pinkish with faint pink stripes; sepals 3-nerved; ovaries reddish, purplish or brownish; plants reddish, purplish or brownish..... 3
- 3 Lip narrow and pinkish with faint pink stripes; plant pinkish..... *C. mertensiana*
 3 Lip broad and white with spots; plant reddish to brownish..... 4
- 4 Lip with obvious lateral lobes at base..... *C. maculata*
 4 Lip lacking obvious lateral lobes at base..... *C. wisteriana*

Cypripedium

- 1 Leaves 2 per plant; lip mottled purple..... *C. fasciculatum*
 1 Leaves > 2 per plant; lip not purplish..... 2
- 2 Lip yellow..... *C. parviflorum*
 2 Lip white..... *C. montanum*

Epipactis

- 1 Lip 3-lobed; sepals yellowish with brownish veins, usually > 12mm long; petals yellow to brownish, often suffused with orange or red..... *E. gigantea*
 1 Lip not 3-lobed; sepals greenish, usually < 12mm long; petals greenish, often suffused with pink..... *E. helleborine*
 (*E. helleborine* is a non-native orchid that is becoming established in many areas.)

Goodyera

- 1 Leaves 5-10cm long, with white mid-vein; lip not saccate..... *G. oblongifolia*
 1 Leaves 1-3cm long, lacking white mid-vein; lip saccate..... *G. repens*
 (*G. repens* is not known from our area, but could be found in northern Idaho.)

Listera

- 1 Leaf bases cordate; lip bifid into 2 attenuate lobes..... *L. cordata*
 1 Leaf bases not cordate; lip entire or bifid into 2 blunt lobes..... 2
- 2 Lip entire with two upright basal teeth..... *L. caurina*
 2 Lip bluntly bifid lacking upright basal teeth..... 3

- 3 Lip strongly narrowed towards base..... *L. convallarioides*
 3 Lip scarcely narrowed towards base, often with two basal auricles..... *L. borealis*

Spiranthes

- 1 Flowers not gaping, petals forming distinct hood, lip fiddle-shaped with ruffled margin
 *S. romanzoffiana*
 1 Flowers gaping, petals not forming distinct hood, lip ovate with smooth margins
 *S. porrifolia*
 (*S. diluvialis* is known from WA and ID, but is rare and very difficult to distinguish from
S. romanzoffiana.)

Piperia

- 1 Flowers mostly white or greenish white..... 2
 1 Flowers mostly green or translucent green..... 3
- 2 Spur horizontal.....*P. transversa*
 2 Spur descending..... *P. elegans*
- 3 Spurs generally >6mm long, usually exceeding lip..... *P. elongata*
 3 Spurs generally <6mm long, more or less equal to lip..... *P. unalascensis*

Platanthera

- 1 Leaves 1, basal..... *P. obtusata*
 1 Leaves 2 or more, basal or cauline..... 2
- 2 Leaves 2, basal..... *P. orbiculata*
 2 Leaves >2, cauline..... 3
- 3 Spur saccate or scrotiform..... *P. stricta*
 3 Spur elongate..... 4
- 4 Flowers white; lip prominently broadened at base..... *P. dilatata*
 4 Flowers greenish; lip only slightly broadened at base..... 5
- 5 Flowers yellowish green to whitish green; lip dull yellow; anthers low, appearing to lie
 atop stigma; anther sacs widely diverging from apices; pollinia rotating forward and/or
 fragmenting, loose pollen masses free of anther sacs; viscidia orbiculate; flowers
 autogamous; 2n=42..... *P. aquilonis*
 5 Flowers whitish green; lip whitish; anthers high, rising above stigma; anther sacs +/-
 parallel, converging or diverging from apices; pollinia retained in anther sacs; viscidia
 oblong; flowers not autogamous; 2n=48..... *P. huronensis*