Searching for Orchids

The best time of year to look for orchids is mid-June, when most of the species are in bloom throughout most of the summer. Searching for orchids is a wonderful way to explore the Cypress Hills, but please take care not to disturb these fragile and unique plants in their habitats. Orchids rarely survive transplanting, and picking the flowers will prevent orchids from reproducing. If you find an orchid, the best way to preserve it is with a photograph. Without care and respect, orchids may disappear from their refuge in the hills.

Have you seen an Orchid in our Park?

If so, please contact the Visitor Centre! We are currently recording sightings in order to help catalog these beautiful and unique flowers.

For more information,
please contact the Visitor Centre
403-893-3833 ext. 5

www.albertaparks.ca/parks/south/ cypress-hills-pp/

Orchids

Cypress Hills Interprovincial Park



The diversity and abundance of orchids found in the Cypress Hills cannot be matched anywhere else in the prairies.

Many of these fragile and beautiful flowers can be found while hiking in early summer, making this area an orchid-lover's haven.

Use this fact sheet to help you discover and identify the orchids of the Cypress Hills.



Ice Age Remnant: At the end of the last Ice Age, forests stretched across the plains from the Cypress Hills to the Rocky Mountains. As the climate warmed, grasses took over, leaving an isolated remnant of this ancient forest in the higher elevations of the Cypress Hills. With a wetter, cooler climate than the surrounding prairies, the hills are now a refuge for many forest plants far from their normal ranges.

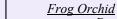
A Refuge for Orchids: Orchids are among the rarest and most interesting plants that have found refuge in the Cypress Hills. At least 18 species and 2 varieties of orchids have been reported in the hills of Alberta and Saskatchewan. Some are uncommon in the rest of Canada, but are quite abundant here. Other rare species have only recently been reported. Careful research may reveal even more unreported species and varieties. Provincial Parks, like the Cypress Hills, now protect the habitat of these remarkable flowers.

Orchid Description: Found throughout the world, most orchids are tropical species and grow on trees. In North America, orchids are generally quite small and grow on the ground, obtaining nutrients from decaying organic matter. To germinate and grow, orchid seeds need to be invaded by a fungus. The most distinctive aspect of orchids are their flowers, consisting of three separate sepals, often resembling petals, and two lateral petals. A third, lower petal usually forms an elaborate and unusually shaped lip, often bearing a backward-projecting spur. In the center of the flower a complex structure called the column holds the reproductive organs.

White Adder's Mouth

Malaxis brachypoda

- Greenish to yellowish sepals and petals, greenish to yellowish drooping, oval-shaped lip tapering to a point, 2-3mm long; no spur
- ♦ Prefer damp woods, banks and bogs
- ♦ Bloom in June
- Rare
- First reported in the Alberta Cypress Hills in 1988; considered a rare species elsewhere in Alberta



Dactylorhiza viridis

- ♦ Green sepals; greenish-white threadlike petals; greenish-white 2-3 lobed lip sometimes streaked with purple, 1cm long; sac-like spur; numerous flowers in a long, loose spike
- Prefer damp soil in meadows in pine and aspen woods
- ♦ Bloom mid-June/mid-August
- Uncommon but locally abundant





Striped Coralroot

Corallorhiza striata

- ♦ White sepals and petals with three purple stripes; white to maroon lip with five dark purple stripes, 1.3cm; no spur; 15-25
- A rare orchid in North America; an extremely rare non-striped variety is found only in the Cypress Hills

Corallorhiza trifida

Greenish-yellow sepals and petals;

3-lobed whitish lip spotted with

purple, 0.5cm long; no spur; 3-12

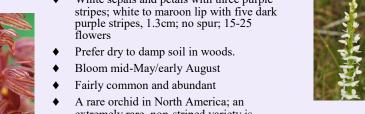
Prefer moist, wooded areas

Bloom mid-May/early August

Fairly common but not abundant

Yellow Coralroot

flowers





Tall White Bog

Platanthera dilatata

- White to yellow-white or greenwhite sepals and petals; white lanced -shaped lip waxy, 5-10mm long; sharp, slender spur; numerous small flowers
- Prefer rich soils in wet coniferous woods, bogs, thickets, and meadows
- Bloom early June/early August
- Rare in Saskatchewan; not reported in Alberta portion
- Strong fragrance of cloves or vanilla

Platanthera huronensis

Prefer to grow long creeks and ponds.

springy areas in moist coniferous woods

Fairly common and abundant on the Al-

pale green tongue-shaped lip; 0.6cm long;

club-shaped spur; numerous flowers in

Yellow-green sepals and petals;

Bloom late May/early August

berta side: rare in Saskatchewan

Northern Green Bog Orchid

a long, dense spike

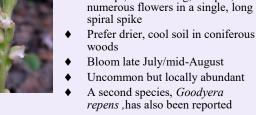


Spiranthes romanzoffiana

- Creamy white sepals and petals, forming a hood; creamy white fiddle-shaped lip and bent downward, 0.6cm long; no spur; numerous flowers in a short twisted spike
- Prefer bogs, open woods, meadows, moist depressions in fescue grasslands
- Fairly common and locally abun-

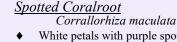
Hooded Ladies' Tresses

- Bloom late July/August
- dant in Alberta; rare in Saskatche-
- Last orchid to bloom each summer

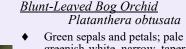


Sparrow's Egg Lady Slipper

- white or pale lilac pouch-shaped translucent lip, spotted with purple; 1cm long; no spur
- bogs in mossy spruce forests



- White petals with purple spots and 3 -lobed lip, 0.6cm long; pale greenyellow sepals with purple trim; conspicuous vellow spur: 10-40 flowers per plant
- Prefer drier soils in aspen woodlands and open pine woods
- Bloom late June/early August
- Fairly common and abundant
- All coral-root orchids lack green color in stalks



- greenish-white, narrow, tapering lip with downward bend, 1cm long; slender, tapering spur; a few flowers in short, loose spike
- Prefer boggy areas in spruce woods
- Bloom mid-June/early August
- Uncommon in Saskatchewan



Heartleaved Twayblade Neottia cordata

- Purplish to yellowish green sepals and petals; 2 lobed lip purplishgreen, 4-5mm long; no spur, 4-20 tiny flowers
- Prefer acidic soils in mossy woods, thickets and bogs
- Bloom early June/early August
- Rare in Saskatchewan; not recorded in Alberta



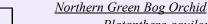
Yellow Lady's Slipper

Cypripedium parviflorum

- ♦ Yellowish or greenish sepals, striped with purple, 3-5cm long; yellow pouch-shaped lip marked with purple; 1.5-4cm long; 1 flower
- Prefer moist, open areas in woods along banks and ditches
- Bloom in June
- Very rare in Saskatchewan hills; not reported in Alberta

Small Round-Leaved Orchid Galearis rotundifolia

- ♦ Pale pink sepals and petals; 3-lobed white lip, spotted with purple, 0.8cm long; stout, curved spur; 3-6 flowers
- Prefer moss covered, springy wet soil along streams in mature spruce forests
- Bloom late May/early July
- Uncommon but fairly abundant in remote undisturbed valleys
- A very rare variety with a purple striped lip is known only from the Cypress Hills and a few locations in Ontario



Platanthera aquilonis

- Yellow-green sepals and petals; pale green tongue-shaped lip; 0.6cm long; club-shaped spur; numerous flowers in a long, dense spike
- Prefer to grow long creeks and ponds, springy areas in moist coniferous woods
- Bloom late May/early August
- Fairly common and abundant in Saskatchewan
- on the Alberta side: rare in Saskatchewan



Northern Twayblade Neottia borealis

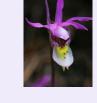
- ♦ Awl-shaped sepals and green petals; translucent pale green 2-lobed lip with central dark green stripe, 1.3cm long; no spur; several flowers on loose spike
- Prefer wet, cold, moss-covered soil in mature spruce woods
- Bloom late May/early August
- Rare; confined to remote, boggy



Mountain's Lady Slipper

Cypripedium montanum

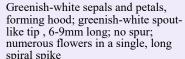
- ♦ Greenish-brown to purple-brown sepals and petals, twisted, 4-6 cm long; 1-3 flowers
- Prefer moist woods
- Bloom late May/July
- Known from one location in Saskatchewan Cypress Hills
- First reported from hills in 1984; a rare species





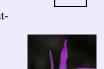






Western Rattlesnake-Plantain

Goodyera oblongifolia





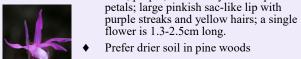


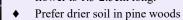












Fairy-slipper Orchid

- Bloom Mid-May/early June
- Common and abundant in Alberta; very rare in Saskatchewan

Calypso bulbosa

Pink, purple, and some yellow sepals and

Most common and striking orchid on the Alberta side of the Cypress Hills; decreasing in abundance throughout North America due to logging and picking.



