

# Canadian Rockies

## Alberta and British Columbia

*A Greentours Tour Report*

4<sup>th</sup> to 19<sup>th</sup> June 2015

Led by Paul Cardy

Daily Accounts and Systematic Lists by Paul Cardy

### **Day 1 Thursday 4<sup>th</sup> June          Arrival**

Having spent the day at Emerald Lake, on my way to the airport I called in at Storm Mountain Lodge to make sure all was in place for our late arrival this evening, checked out the rooms, and collected the keys to make things simpler for our arrival in the dark.

I got to Calgary airport in good time and there met. Several Swainson's Hawks soared in the skies around Calgary.

The group arrived on schedule and we were soon on our way, initially through the urban sprawl of Calgary, then into the wilds further west. We arrived at the tranquil lodge where all were sleeping, and I soon settled everyone in, handed out water, etc., and we got some welcome sleep ourselves.

### **Day 2 Friday 5<sup>th</sup> June          Bow Valley Provincial Park**

Golden-mantled Ground Squirrels scampered around the log cabins, and Rufous Hummingbird frequented the feeders. We met up with Graeme and Gael, who like me had arrived in Canada a few days earlier following our tour together in Hawaii. The weather was fine with cloudless blue skies, and the views from the lodge sublime.

We spent the whole day exploring Bow Valley Provincial Park, to the south east of Banff National Park and at a lower altitude. Common Loon was on one of the many small lakes en route, and there were patches of *Castilleja miniata* on roadsides, but apparently little else in bloom. This was deceptive however as the flora in the park proved to be superb, and many fine species were seen today. Having arrived, we didn't have to stray out of the first parking area before the first Lady's Slippers, *Cypripedium parviflorum*, in perfect flower caused much interest, and indeed they could be called common today. Also here were Frog Orchids, with a very confused nomenclature in North America, but basically a long-bracted form of *Coeloglossum viride*. *Corallorhiza trifida* and *Corallorhiza striata* were both in fine bloom too. An excellent start for orchids. Later in the day we would also see *Amerorchis rotundifolia*.

Silverberry became very common, with its odour of Wolf's urine(!), and much of the ground was carpeted by *Juniperus horizontalis*. Legumes became a feature, among them *Hedysarum boreale*, *Hedysarum sulphurescens* and *Oxytropis campestris*. The strawberry here was *Fragaria virginiana*, *Shepherdia canadensis* (Soapberry) was a feature, the umbel *Zizia aptera* was in flower, *Clematis occidentalis* twined through shrubs, and *Smilacina stellata* was in bloom. The provincial flower of Alberta, Prickly Rose, was common.

Chequered Skipper was a pleasing find, here called Arctic Skipper. Hoary Elfin was associated with the bearberry, and Common Arctics (really a Ringlet, *Erebia epipsodea*) were rather common. *Dryas drummondii* formed mats of yellow flowers, and Shrubby Cinquefoil was in bloom. Among the sedges were *Carex scirpoidea* and *Carex aquatilis*. *Aquilegia brevistyla* had beautiful blue flowers and *Lonicera dioica* was in bloom.

A highlight was the lovely *Dodecathaon pulchellum*, Pretty Shooting Star. The ponds here had much sign of Beaver activity, dams, fallen logs, etc. Killdeer objected to our presence with strident calls! Butterflies included Spring Azure flying around the vegetation, Silvery Blues common, and Satyr Comma. A fern highlight was the always special *Botrychium virginianum* in exactly the same spot I'd last seen it in 2007.

Plants continued with *Sisyrinchium montanum*, *Ribes lacustre*, *Lithospermum ruderales* and *Androsace chamaejasme*. A fine male Cape May Warbler sang from atop a spruce.

We ate our picnic lunch back near the vehicle. Wood Frog was our first amphibian. The saxifrage *Mitella nuda* was very attractive with its frilly petals, there was much fine white flowered *Viola canadensis*, and Ninebark, *Physocarpus malvaceus*, had characteristically shredded bark.

A noctuid, a Mother Shipton relative that settled on Anne's arm, was probably *Caenurgina crassiuscula*. White-crowned Sparrows were much in evidence and *Mertensia paniculata* and *Astragalus eucomius* were added to the plant list.

At Middle Lake a circuitous walk started with the tiger moth *Grammia parthenice*. *Agoseris glauca* and *Erysimum cheiranthoides* were in flower and Common Loon was on the lake. There were many more Pretty Shooting Stars here, and *Corydalis aurea* was a good find. Among the many other flowers were *Geum triflorum*, *Oxytropis sericea*, and *Oxytropis splendens*. Northern Crescent was on the wing.

A walk from the visitor centre had several noisy Chickarees, also known as Red or Pine Squirrels, cavourting in the woods. *Pulsatilla patens* was in impressive flower, here confusingly called Prairie Crocus. Arctic Fritillary, Queen Alexandra's Sulphur, and more *Erebia epipsodea* were all flying in the continued sunshine. In the forest here was a very fine patch of *Corallorhiza striata*, as well as *Corallorhiza trifida*. *Androsace septentrionalis* was in delicate flower.

Back at the lodge we found *Calypso bulbosa* and later enjoyed an excellent dinner, it staying light very late at this time of year.

## Day 3 Saturday 6<sup>th</sup> June

## Emerald Lake

A longer drive today took us north west to Yoho National Park and the beautiful Emerald Lake. I had been here a few days earlier and had found a wealth of good things, so I knew we were in for a very productive day. The car park was busy as usual but the further away we got the fewer the people, and the better the flora, and this was one of the highlights of the entire tour. We spent the day walking the entire perimeter of the lake, carrying our lunch with us.

The weather was fine and the scenery sublime. *Sorbus sitchensis* and *Sambucus racemosa* both flowered near the car park, and an extensive plant list began also with *Amelanchier alnifolia*, *Alnus incana*, *Smilacina racemosa*, *Menziesia ferruginea*, *Galium boreale*, both *Lonicera utahensis* and *Lonicera involucrata*, and *Tiarella unifoliata*.

A notice board explained the significance of the Burgess Shale. Discovered in the early 20<sup>th</sup> Century the wealth of finely preserved mid Cambrian fossils discovered here make it one of the world's most important fossil localities. Many bizarre fossils were found here and given suitably remarkable names such as *Hallucigenia*, *Wiwaxia*, *Burgessochaeta*, *Anomalocaris*, *Canadaspis*, and *Dinomischus*. More than 150 species, in 120 genera, have been found in the Burgess Shale.

Back to extant species. Plants continued with *Disporum trachycarpum*, *Streptopus amplexifolius*, and *Clintonia uniflora* in leaf. *Parnassia* was also in leaf. *Erythronium grandiflorum* had just gone over but we would see fine examples tomorrow! *Gymnocarpium dryopteris*, *Pedicularis bracteosa*, and *Valeriana sitchensis* added to the variety. Beautiful *Aquilegia flavescens* was in flower, whilst *Moneses uniflora* was in bud.

Tree Swallows flew over the lake. A grassy clearing had much butterfly activity, with many nectaring. Among the showy species here were Western Tiger Swallowtails, Anise Swallowtail, and Milbert's Tortoiseshell. There were also several bee hawk moths, *Hemaris diffinis*, nectaring.

It was soon apparent that this was another great orchid site, starting with fine *Calypso bulbosa*, followed by *Listera cordata*, *Platanthera obtusata*, *Coeloglossum viride*, *Corallorhiza striata*, and *Corallorhiza trifida*. At the northern end of the lake open boggy areas had much *Trichophorum caespitosum* and a particularly fine display of Lady's Slippers, *Cypripedium parviflorum*. *Lycopodium annotinum* and *Diphasiastrum complanatum* were a feature of the shady forest floor.

*Dryas octopetala* and *Dryas drummondii* were both in flower, and there were also hybrids between the two. The yellow *Castilleja occidentalis* was here, and *Cornus unalaschkensis* had distinctive bracts. *Ledum groenlandicum* was a feature among which *Primula mistassinica* was a highlight, and also in boggy flushes at the lake shore were several *Pinguicula vulgaris*. The semi-parasitic *Geocaulon lividum* was an interesting find. Among the many sedges were *Carex concinna* and *Carex capillaris*, and *Viola renifolia* had attractive small white flowers.

Among the many beautiful lichens *Peltigera aphthosa* was notable for not just being the usual symbiotic association between a fungus and an alga. The cephalodia on its surface are colonies of

nitrogen providing cyanobacteria, so here are representatives of three different Kingdoms in one organism! Among many other lichen species was Wolf Lichen, *Letharia vulpina*.

We ate lunch in a beautiful shady spot beside a rivulet, with stunning scenery all around, and away from any other visitors. I set to identifying some of the willows, and determined *Salix bebbiana*, *Salix farriarum*, and *Salix candida*.

The afternoon began with fine *Amerorchis rotundifolia*, as well as *Platanthera unalascensis* and *Solidago multiradiata*. *Tofieldia glutinosa* and *Tofieldia pusilla* were both here and *Saxifraga bronchialis* and *Draba cinerea* were in flower.

A fine day for horsetails had us recording all of the following: *Equisetum variegatum*, *Equisetum palustre*, *Equisetum fluviatile*, *Equisetum arvense*, *Equisetum hyemale*, *Equisetum scirpoides*, and *Equisetum pratense*. *Eriophorum angustifolium* and *Eriophorum scheuchzeri* were both in bloom at the water's edge.

Butterfly wise Silvery Blue was an interesting find as legumes, its foodplants, were noticeably absent from the flora here. Red Admiral was also on the wing. Western Toad was found at the lake shore.

Now on the more shady eastern shore of the lake we found the first of many *Linnaea borealis* in flower. The fern variety continued with Lady Ferns and *Cystopteris fragilis*. Also here were *Antennaria rosea*, *Oplopanax horridus*, *Trollius albiflorus* in flower, *Rubus pedatus*, and *Arnica cordifolia*.

Back near the busy park entrance Common Loon was seen very closely.

## **Day 4 Sunday 7<sup>th</sup> June                      Icefields Parkway, Peyto Lake, and Wilcox Pass**

Today we headed north towards Jasper National Park, most of the journey being along the stunning Icefields Parkway, one of the worlds most famous scenic drives. The snow capped peaks and alpine lakes formed a sublime background. The first highlight of the day was a cinnamon phase Black Bear on the road.

We stopped at Peyto Lake, the viewpoint superbly impressive, the lake a remarkable shade of aquamarine. Here was much *Trollius albiflorus* in flower and there were many *Pulsatilla occidentalis*. *Ranunculus nivalis* and *Claytonia lanceolata* bloomed among the dominant *Salix barratiana*. *Cassiope mertensiana* and *Phyllodoce glandulifera* were in leaf, and we also saw the distinctive leaves of *Goodyera oblongifolia*. *Draba aurea* was the first of many drabas today. Clark's Nutcrackers were active in the trees. As we drove out I spotted a superb show of *Erythronium grandiflorum* in flower on the roadside. These really were in perfect condition and prompted many photographs.

The scenery became ever more impressive as we continued north towards Wilcox Pass. A group of six Bighorn Sheep beside the road gave more fine photo opportunities. From the vehicle were fine *Physaria didymocarpa* flowering, but on a difficult stretch of road where we could not stop to look at them more closely.

We reached the trailhead for Wilcox Pass and set out on foot initially through forest. *Cirsium hookerianum* was in impressive flower. Once above the treeline there was a select variety of beautiful plants. *Erigeron compositus* was numerous, and there were a few legumes already in flower including *Astragalus alpinus*.

Every draba we found seemed to be a new species! Among them I identified *Draba incerta*, *Draba cinerea*, and *Draba borealis*. There was also *Boechera stricta*. *Sedum lanceolatum* and both *Dryas drummondii* and *Dryas octopetala* were in bloom, with *Dryas integrifolia* possibly here too.

Ericaceous shrubs were much in evidence, in leaf for the most part, but in a few sheltered spots we found *Phyllodoce glanduliflora* and *Cassiope tetragona* both in good flower. *Potentilla nivea* was also in fine bloom on one rocky slope. The saxifrages *Micranthes occidentalis* and *Saxifraga bronchialis* were here, and Golden Fleabane, *Erigeron aureus*, was beautiful.

Several Bighorn Sheep grazed on the slopes above, and Golden Eagle soared over the majestic peaks. There were sublime views across to the Columbia Icefield, the largest in the Rockies, and the Athabasca Glacier. The satyrid Chryxus Arctic was on the wing.

On the return drive we met two more Black Bears, these black phase individuals. A short forest stop yielded *Listera borealis* and a selection of other orchids.

During dinner we had fine views of the male Rufous Hummingbird outside the window.

## **Day 5 Monday 8<sup>th</sup> June                      Moraine Lake and Grassi Lakes**

We set off along the Bow Valley Parkway, via Lake Louise, and took the scenic road up to Moraine Lake. It was very busy here, the beautiful picturesque lake being a major tourist attraction in the area. Yellow-rumped Warbler was much in evidence in the conifers. We managed to more or less escape the crowds along one of the trails. *Huperzia selago* and particularly fine *Lycopodium annotinum* were a feature of the rocky forest floor, and Yellow Heather was in flower. *Sibbaldia procumbens* was a pleasing find in good flower, and among other plants were *Arnica gracilis*, *Oxyria digyna*, *Antennaria rosea*, *Antennaria media*, and *Epilobium minutum*. A pair of Harlequins were on the lake close to shore.

Back along the Bow Valley Parkway we saw *Astragalus alpinus*, *Stenanthium occidentale*, *Platanthera obtusata*, *Listera cordata*, *Calypso bulbosa* and very large *Arnica cordifolia*. Storm Mountain viewpoint did indeed have fine views, as well as *Penstemon confertus*, and very variable *Oxytropis campestris* in various colours. At another stop *Cirsium foliaceus* was almost in flower.

We ate lunch at the Fenland Trail head in Banff. A female Grizzly Bear had just been seen here and a ranger was busy putting up notices and checking where the animal was. We walked the trail seeing very recent bear droppings but sadly not the bear herself. Among flowers here were *Mitella nuda*, *Aquilegia brevistyla*, and *Petasites sagittatus*.

Next we drove to Grassi Lakes. The trail up above the waterfall to a small lake was productive, with again a good variety of orchids. It was pretty hot here this afternoon. The *Cypripedium passerinum* was

unfortunately still only in bud this year but in flower were *Listera borealis*, and both *Aquilegia flavescens* and *Aquilegia brevistyla*. Moonwort was here again. Least Chipmunks were very tame and kept us amused by their antics.

The bog by the lake was superb habitat with the typical *Ledum groenlandicum*, *Pinguicula vulgaris*, and *Tofieldia glutinosa* community, but here too were *Pedicularis groenlandica* with flowers remarkably like elephant's heads (although in bud this year), and *Androsace chamaejasme*. *Rhodiola rhodantha* was a pleasing addition to the list, a Rockies endemic.

In Canmore there was a chance for a bit of shopping, and time to sort a few practicalities.

## Day 6 Tuesday 9<sup>th</sup> June                      Kootenay National Park, Radium, and Columbia Lake

After breakfast we headed west from the Lodge, initially through Kootenay National Park, the boundary of which was very close to the hotel. Our first stop was at Paint Pots where a short trail took us to the ochre pools, where the orange and red earth was traditionally used by native peoples (the Kootenay) to make paint. The boggy areas here held some fine plants such as Common Butterwort and both *Tofieldia glutinosa* and *Tofieldia pusilla*. Labrador Tea, *Pyrola asarifolia*, *Lonicera involucrata*, and *Mitella nuda* were all in flower. There was a fine selection of sedges including *Carex pauciflora*, and *Juncus triglumis* was a good find. The variety continued with flowering Cranberry, *Primula mistassinica*, and *Geocaulon lividum*.

The next stop was prompted by fine *Lilium philadelphicum* in striking bloom. Here too were *Astragalus miser*, *Senecio streptanthifolius*, and *Tragopogon dubius*. Always a productive drive for mammals, today White-tailed Deer grazed on the verges, and then we saw another Black Bear, a coachload stupidly all out of their bus to photograph it. Mammals continued with Bighorn Sheep, walking past us one by one, and then a male and four female Mountain Goats.

Columbia Lake Provincial Park proved an excellent place, particularly rich in butterflies, having a much more southern influence than the sites we'd hitherto visited. Lorquin's Admirals were much in evidence, there was White Admiral (*Limenitis arthemis*) and many Northern Checkerspots mud puddled. Variable Chequerspot was a very attractive fritillary, and Two-tailed Swallowtails and Pink-edged Sulphur continued the variety.

Barry's Hairstreak was associated with Rocky Mountain Junipers, Western Tailed Blue was on the wing, and we saw Large Heath, here called Common Ringlet.

*Gaillardia aristata* was prominent, flowering among the *Juniperus scopulorum*, there were weedy *Onobrychis viciifolia* and *Medicago sativa*, and *Haplopappus lyalli*. We kept finding new plants, among them *Silene menziesii*, *Allium cernuum*, *Koeleria macrantha*, *Antennaria umbrinella*, *Astragalus collinus*, and *Rosa nutkana* in flower.

We chose a lunch site a little further along the track. Here I walked down to the lake shore, finding an Osprey on its nest, a perched Bald Eagle, and Great Blue Heron, and identified the grass *Stipa*

*connata*. Here too was a colony of Columbian Ground Squirrels, and Northern Grizzled Skipper, here called Grizzled Skipper, was added to the butterfly list.

Another butterfly stop, where much *Apocynum androsaemifolium* was in flower, had Camberwell Beauty, more Lorquin's Admirals, and Brown Elfin. *Acer glabrum* was among the trees and the ferns *Pellaea glabella* and *Cheilanthes gracillima* were a feature of the rocks. There was much *Carex rostrata* at the water's edge, and also here were *Platanthera hyperborea*, *Phacelia linearis*, and *Heuchera cylindrica*.

It was time to get back on the road for the journey home. The impressive *Clematis tangutica* was naturalised on roadsides in the Columbia Valley. I was delighted to spot *Cypripedium montanum* on the roadside. This is a scarce species and a very exciting find. They were in superb flower and another trip highlight.

That evening we went through the plant list sitting at the outside table at the lodge, with fine views all around, an ideal location for a checklist.

## Day 7 Wednesday 10<sup>th</sup> June Sulphur Mountain

The weather continued fine. Our intended destination today was the ski area at Sunshine where a new cable car allows access to the upper slopes, on my previous visit accessible by bus. We arrived to find not only was the cable car not operating but the road higher up was closed to traffic due to road works. I quickly made alternative plans and asked Robin to drive us into Banff from where we'd visit Sulphur Mountain instead. On the drive down from Sunshine we saw three Mule Deer.

Having arrived at the packed car park it was obvious we were in for a very touristy visit. Nevertheless I was hopeful we would find some good habitat at the top, and we did! We ascended in four person gondolas, an impressive scenic ride up the mountain. At the top it was indeed busy with tourists, souvenir shops, and initially all very sanitised and disturbed. But a short walk took us to a track along which we spent most of the remainder of the day. The track took us gradually downhill, and we made our way very slowly down, having lunch at a tranquil spot, and then heading slowly back up. Along this track we saw hardly another person all the time we were there.

*Salix arctica* was in attractive flower and *Phyllodoce empetriformis* was in leaf. *Anemone drummondii* was new for us, there were *Antennaria alpina*, *Epilobium anagallidifolium*, and *Potentilla uniflora*, and *Phacelia sericea* was in fine flower. Gray Jays were much in evidence and Raven called. Glandon Blue was on the wing, here called Arctic Blue, we saw beautiful Edith's Checkerspot, and Macoun's Arctic was the second *Oeneis* species of the tour.

We had fine close views of Hoary Marmots, and Golden-mantled Ground Squirrels were characterful as always. The mammal highlight was a Pika that came right up to us! The draba list continued with *Draba nivalis*, *Draba cana* and *Draba incerta*. *Packera cana* was in bud, and *Ribes oxycanthoides* was in flower and fruit. There was extremely small Moonwort here, and another plant of *Sibbaldia procumbens*. A great mammal day continued when I had an encounter with a Marten but unfortunately no-one else saw it.

Plants continued with *Carex pyrenaica*, much fine *Androsace chamaejasme*, and *Saxifraga bronchialis*. A perched Townsend's Solitaire allowed fine close views.

Before heading down in the gondolas we joined the tourists at the viewpoints which did indeed give fine vistas in all directions.

An earlier than usual finish allowed time for packing and relaxing back in our fine log cabins. That evening we enjoyed an excellent last dinner at the lodge.

## **Day 8 Thursday 11<sup>th</sup> June                      Storm Mountain Lodge to Okanagan via Glacier and Revelstoke National Parks**

The weather was again fine for our journey west. We said farewell to the lodge, and the Red and Golden-mantled Ground Squirrels. But where had the Snowshoe Hares been this year, seen daily here on my last visit, and where had the Moose been?

We left a little before 9 o'clock. Our journey took us through several national parks and much fine and varied scenery. Near Field was a remarkably long goods train. *Lilium philadelphicum* flowered on the roadsides, and *Lupinus arcticus* became a feature. Just after ten we reached Golden where a 'comfort stop' across the railroad line had us worried when the gates closed blocking our access back to the highway. Fortunately they didn't stay closed for long! The alien *Hieracium umbellatum* was here.

Reaching Glacier National Park we stopped at Rogers Pass Visitor Centre where sadly the advertised book shop was no more. Very tame Columbia Ground Squirrel kept us amused, and Howard and Marion found beautiful *Streptanthus roseus* in the woods. This led us to also find *Rubus parviflorus* (ironically this has notably large flowers), *Mitella breweri*, *Viola orbiculata*, *Dryopteris dilatata*, *Smilacina racemosa*, *Geum macrophyllum*, *Valeriana sitchensis*, *Tiarella unifoliata*, *Vaccinium ovalifolium*, and *Sambucus racemosa*. The only *Leptarrhena pyrolifolia* of the tour was here.

Pileated Woodpecker was seen in flight and much *Platanthera dilatata* flowered on the verges, although it was impossible to stop here.

Next was Revelstoke National Park where first we walked the beautiful and atmospheric Giant Cedar boardwalk, *Pinus monticola* also a component of the forest here. Surprisingly this was Temperate Rainforest although we were still far from the coast. *Oplopanax horridus* was the main understory shrub, and in very impressive flower. *Asarum caudatum* was in flower on the forest floor, and there were Beech Fern, *Osmorhiza depauperata*, Skunk Cabbage, and a highlight *Clintonia uniflora* in fine form. Winter Wrens called. Other plants typical of the habitat were *Aruncus dioicus*, *Aralia nudicaulis*, *Pachistima myrsinites*, and *Taxus brevifolia*.

Nearby we ate lunch before walking an attractive boardwalk through Skunk Cabbage stands and beaver ponds. Among the many plants in this very different habitat were *Circaea alpina*, *Ranunculus*

*uncinatus*, *Veronica americana*, *Senecio triangularis*, *Potentilla palustris*, *Crataegus douglasii*, *Carex crawfordi* and *Lysimachia thyrsoflora*. Barry found the familiar *Dryopteris filix-mas*.

Song Sparrows did indeed sing, and we saw Columbia Spotted Frog. It was remarkable to consider just how different from one another the two habitats we visited in Revelstoke were, the atmospheric temperate rain forest, and the skunk cabbage bog, just three kilometres apart.

Continuing west *Lilium columbianum* became numerous on roadsides. Also seen were *Spiraea douglasii* and *Hieracium aurantiacum*.

Once south of Sicamous, and now in the Okanagan, traffic became much heavier and the whole valley was densely inhabited, with mainly ribbon development. There was time for a little exploration and I chose a side road that we hadn't explored before. This certainly got us away from any habitation and into very interesting forest. This beautiful area yielded *Aquilegia formosa*, *Lupinus arcticus*, *Cynoglossum officinale*, *Antennaria neglecta*, *Collomia linearis*, *Pedicularis bracteosa*, and *Gentianella amarella*. There was also much *Linnaea borealis* in flower.

The moth Wood Tiger was admired, and *Corallorhiza maculata* and *Lilium columbianum* were in impressive flower. The striking orange flowers of *Lonicera ciliosa* prompted a short stop.

Grasslands lower down had Western Meadowlark, Lark Sparrow, and California Quail, and Turkey Vultures soared. Plants continued with *Potentilla recta*, *Eriogonum heracleoides*, *Silene noctiflora*, and *Camelina microcarpa*.

## **Day 9 Friday 12<sup>th</sup> June                      Vaseux Lake and Mount Baldy**

Much of the journey to Vaseux Lake was along the shores of Okanagan Lake. I spotted much *Calochortus* along the way, but we just could not stop, we would see many later! *Pinus ponderosa* became a feature of the area further south.

Having reached Vaseux Lake a boardwalk took us through tallows and alders, with an interesting wetland flora, down to the lakeshore. Two willows were common here, *Salix lucida* ssp. *lasiandra* and *Salix exigua*. *Apocynum cannabinum* was a feature and among other plants were *Erigeron subtrinervis*, *Carex lanuginosa*, and *Fallopia convolvulus*.

On the open water were American Coot and Ring-necked Ducks, and Osprey hunted over the lake. Song Sparrow sang atop the trees, and Gray Catbird and Swainson's Thrush skulked in the vegetation. A species of *Potamogeton* grew in the water, and *Utricularia intermedia* was in flower.

Across the road we scanned the cliffs for Canyon Wren but failed to see any today. One of the day's highlights was a fine colony of Sagebrush Mariposa Lily, *Calochortus macrocarpus*, a beautiful thing. Flowering Yucca was a surprise, obviously naturalised here, and *Coronilla varia* was also naturalised. *Ribes cereum* was in flower, dry *Selaginella densa* formed mats on the rocks, and *Philadelphus lewisii* was in impressive bloom. A female Bighorn Sheep with young was very close by. Red Admiral was on the wing, beautiful Lazuli Bunting was admired, and we had fine views of Lewis's Woodpecker.

Nearby we stopped in the pleasant small town of Oliver, the 'Wine Capital of Canada', for some lunch supply shopping, but no wine!

Next we turned towards Mount Baldy. Lower down the sagebrush scrub was all Native American reservation, so stopping was difficult. A little higher a short woodland stop yielded a few plants including attractive *Ipomopsis aggregata*, *Erigeron pumilus intermedia*, and *Astragalus collinus*. Another stop had many *Platanthera saccata*, as well as *Antennaria lanata* and *Carex albonigra*.

Having reached the small scale ski area at the top of the road it was pretty cold, but we persevered and ate lunch here, and explored a wet grassy slope. Among *Ledum glandulosum* were *Veronica wormskoldii*, *Castilleja rhexifolia*, *Carex macloviana*, *Juncus mertensianus*, *Platanthera dilatata*, and *Agoseris aurantiaca*, and the *Rhododendron albiflorus* was in flower.

Another stop was prompted by striking *Mimulus guttatus*. Yellow-bellied Marmots were seen closely from the vehicle, and Common Crossbills fed in the conifers. *Delphinium nuttallianum* proved very popular, and a great find at the same spot was *Lewisia pygmaea*. *Erigeron glacialis* was added to the fleabane list.

Back near Oliver the highlight of the day was another superb display of *Calochortus macrocarpus*, with many more plants than we had seen earlier. Whilst we were admiring these, a lady stopped and after a few seconds looking at the impressive blooms, started picking handfuls of them! We immediately stopped her, and she was puzzled why. She sulked off but about five minutes later drove back, getting out of her car and shouting at us that we had no right to stop her picking the calochortus because she lived here and we did not. Hardly the point!

Sprays of *Gypsophila paniculata* cascaded from the verges, and we saw *Crepis atrabarba* and *Phlox longifolia*. An impressive perched dragonfly was a California Darner.

## **Day 10 Saturday 13<sup>th</sup> June      Mount Kobau, Okanagan**

Another fine day saw us again making the drive south, almost to the Washington border. En route to Mt. Kobau we stopped to admire Spotted Lake, a remarkable saline alkali lake, where pools sit among variously coloured mineral deposits giving a very unusual effect. This weird phenomenon was a medicine lake used by the Okanagan and Syilx peoples.

The day was spent slowly driving up and down the mountain, with many stops along the way. Lower down was sagebrush scrub where Eastern Kingbird perched on wires, and Red-tailed Hawk was in the air. A flowery slope had many plants including *Lomatium triternatum*, *Lupinus sericeus*, *Arnica fulgens*, *Erigeron corymbosus*, and *Arenaria serpyllifolia*. An interesting find was *Fritillaria pudica* in fruit. *Festuca idahoensis* was the dominant grass on these slopes. Barry found *Selaginella densa* in better condition than we had seen it yesterday, as well as *Woodsia obtusa*.

The hoped for Blue Coppers were here nectaring on their foodplant, *Eriogonum heracleoides*. This beautiful aberrant species of copper appears to be a large species of blue, but is a species of *Lycaena*.

Further up Scarlet Gilia became numerous and there was much *Philadelphus lewisii* in impressive flower. A highlight was the distinctive *Orobanche uniflora*, apparently parasitising both *Sedum* and *Heuchera*. Plants continued with *Stenanthium occidentale*, *Platanthera unalaskensis*, *Lithophragma parviflora*, *Woodsia scopulina*, and *Arabis holboellii*.

Gael called us over to a Western Yellow-bellied Racer that she'd found, but of course it didn't stay around for long.

A superb trackside rock garden had much *Penstemon fruticosus* in fine form. *Castilleja thompsonii* had yellowish bracts, whilst *Phacelia hastata* had white flowers. *Lomatium dissectum* was in bloom, and *Collinsia parviflora*, *Zigadenus venenosus*, *Senecio integerrimus*, *Eriogonum umbellatum*, *Erigeron linearis*, and *Arenaria capillaris* were all here. Common Ringlet (Large Heath) was on the wing.

Wild Bergamot, *Monarda fistulosa*, was one of the few labiates we saw on the tour. The first of many *Polemonium pulcherrimum* were in flower, a feature of the area, and *Lappula redowskii* was identified.

Having reached the summit of the mountain it was lunch time and I went exploring. After lunch we all set out on foot, walking down across the grassy slopes, Robin driving down to meet us a couple of curves lower down. *Hackelia micrantha* was in flower and there was much more *Polemonium*. *Claytonia lanceolata*, *Draba nemorosa*, *Balsamorhiza sagittata*, and *Hydrophyllum capitatum* were all in flower.

Memorable was much *Lewisia rediviva* in fine flower on rocky outcrops. Dark-eyed Juncos were characteristically tame, Edith's Chequerspot was admired, and the arctiid moth here was *Grammia parthenice*. *Dodecathaon pulchellum* was again in good flower and there was one fine plant of *Penstemon procerus* near the vehicle.

Another stop for Blue Coppers produced several more, and Black-headed Grosbeak was seen. After a very productive day, we enjoyed another characterful meal in Kelowna.

## Day 11 Sunday 14<sup>th</sup> June                      Whistler to Oliver

We had a long drive today so set off in good time. Making steady progress, and leaving the heavy traffic of the northern Okanagan behind, Laurie Guichon Memorial Grasslands provided a timely and productive place to stop. Nesting Osprey was the first thing of interest, and we had close views of Red-naped Sapsucker working tree trunks. *Geranium viscosissimum*, *Lathyrus nevadensis* and *Rosa woodsii* bloomed in the grasslands, and a good find was *Fritillaria lanceolata* still just in flower. Noticeboards explained the history of this site, and emphasised that such grassland is a rare habitat in British Columbia. Something was leaping through the dense grass, a Jumping Mouse, a wonderfully characterful little rodent, but we didn't see it clearly enough to determine which of the three possible species it was.

Birds continued with Western Wood Pewee and Rufous Hummingbird. A beautiful pond had Ruddy Duck, Pied-billed Grebe, and the highlight a very close Marsh Wren in the reeds. Dragonflies

included *Libellula quadrimaculata*. Above us Red-winged Blackbirds were mobbing a soaring Red-tailed Hawk, even landing on its back to attack it!

A white aquatic *Ranunculus* was probably *Ranunculus aquaticus*. Acmon Blues, Western Square-dotted Blues, and Arrowhead Blue all mud puddled on the shores of the pond. Western Terrestrial Garter Snake was a highlight, whilst meanwhile Robin had seen another one in the water. Calliope Hummingbird was perched.

This site was a great find, and a must stop site on future tours, but for now we had to continue our journey west. The almost empty Highway 8 took us through native lands, and we saw hardly another vehicle for a long time. Yellow-bellied Marmots and Bald Eagles were among things seen en route.

Our journey took us along the Thompson Valley, and then into the Fraser Valley where the two rivers meet at Lytton. The next stop was prompted by impressive *Mentzelia laevicaulis*, where also *Chaenactis douglasii* was added to the list. The former, known as Blazing Star, has impressive large yellow flowers with many yellow stamens, the outer five expanded and petal like.

West of Lillooet the scenery and vegetation changed markedly. From sagebrush dominated by *Artemisia tridentata*, with *Artemisia frigida*, and *Gaillardia aristata* common on the roadsides, the vegetation soon became lush and densely verdant, the roadsides with much of interest. *Cirsium edule* was impressive, *Aquilegia formosa* was beautiful, there was much fine *Lilium columbianum*, many *Platanthera hyperborea* and *Platanthera dilatata*, and *Senecio indecorus*. Flowering among the *Salix sitchensis*, *Thalictrum venulosum* and *Hydrophyllum fendleri* were new to us. On the wing in the sunshine were California Tortoiseshell, Clodius Parnassian, and Chequered Skipper.

Later in the afternoon we reached Whistler where we would spend the next four nights. Our rooms were excellent, spacious and very well equipped, with kitchens. Later we enjoyed a very good dinner in the busy town.

## **Day 12 Monday 15<sup>th</sup> June      Alice Lake and Garibaldi Provincial Parks**

After breakfast we drove towards Squamish, and to the provincial park at Alice Lake, the views of the many snow-capped peaks en route were sublime. Once in the park, first we walked a short trail to a small lake, through Western Red Cedar and Western Hemlock forest. *Gaultheria shallon*, *Polystichum munitum*, and *Vaccinium parvifolium* were typical of the vegetation. A short way along the path Marion called us back to the first highlight. She'd spotted a fine patch of *Hemitomes congestum*, Gnome Plant. This bizarre plant is the only member of its genus. This was the first of several saprophytes/parasites we'd see today and was a great addition to the list. We found more further along too.

Both *Chimaphila menziesii* and *Chimaphila umbellata* were here, ferns continued with *Blechnum spicant*, and Twinberry was in flower. Red-breasted Sapsucker worked tree trunks. In the lake *Nuphar lutea*

*polysepala* and *Nymphaea odorata* were both in bloom, there were some large clumps of *Drosera rotundifolia* on a floating log, and Bogbean and *Potentilla palustris* were seen.

Wintergreens continued with *Pyrola chlorantha* and *Pyrola asarifolia*. *Goodyera oblongifolia* was in leaf. It was Barry who found the next saprophyte, superb Pinesap, *Hypopitys monotropa* (*Monotropa hypopitys!*?). And next came superb white *Monotropa uniflora*, Indian-Pipe, in perfect condition. There was much *Corallorhiza mertensiana* in fruit. Among the trees was *Acer circinnatum*, and singing Winter Wrens were a feature.

A short drive took us to the shores of Alice Lake itself. Here a woodland walk yielded *Maianthemum dilatatum*, *Dicentra formosa*, *Rubus spectabilis*, *Acer macrophyllum*, *Polypodium glycirrhiza*, and *Oenanthe sarmentosa*. We ate our picnic lunch beside Alice Lake, a beautiful spot.

In the afternoon we headed to Garibaldi Provincial Park where another forest walk proved excellent. There was much more *Goodyera oblongifolia*, here very nearly in flower. *Orthilia secunda*, and *Pyrola picta* in bud continued the wintergreens. *Listera convallarioides* was in fruit, and *Hieracium albiflorum* was in flower. There was much *Asarum caudatum* on the forest floor. The geometer Argent and Sable was common, as at many sites in the area.

Plants continued with *Heuchera micrantha*, Gael found *Cryptogramma acrostichoides*, and *Clintonia uniflora* was in fine form. The 'oddball' saprophyte/parasites continued with stunning Candystick, *Allotropa virgata* in perfect condition, red and white striped. There was more *Hypopitys monotropa*, *Pyrola asarifolia* was in flower, and there was much more Twinflower in fine bloom. *Platanthera orbiculata* was in bud, whilst *Listera caurina* and *Corallorhiza maculata* were in flower.

Red-bellied Sapsucker was again seen closely, as was Calliope Hummingbird. Barry found the first of the distinctive *Adiantum pedatum*, there was *Lycopodium clavatum*, and most notably another *Botrychium virginianum*.

We ended the day having seen almost every possible special forest floor plant the area has to offer.

## **Day 13 Tuesday 16<sup>th</sup> June      Nairn Falls and Joffre Lakes Provincial Parks, and Shadow Lake**

First we travelled east to the small park at Nairn Falls, where we walked the easy trail to the waterfall. Having reached our destination we were soon recording new plants around the car park, including *Spiraea densiflora*, *Aster subspicatus*, and *Cornus nuttallii*, the provincial flower of British Columbia. Several Canadian Tiger Swallowtails and Pale Swallowtails nectared on *Apocynum androsaemifolium*, and Lorquin's Admiral was on the wing. An unusual find here was white flowered *Campanula persicifolia*, a strange place for such an adventive plant. *Vaccinium membranaceum* was in fruit, and *Trientalis latifolia* flowered on the forest floor.

The trail took us through fine forest, with a mossy floor that supported wintergreens including *Pyrola picta*. *Corallorhiza maculata* was in good form and *Penstemon serrulatus* was new for us. The falls themselves were reasonably impressive, and here *Saxifraga ferruginea* flowered on the rocks, and was

very variable in size. A lush wet rockface had much more of the distinctive fern *Adiantum pedatum*. *Rosa gymnocarpa* had small pink flowers.

Having reached the rather cool Joffre Lakes we walked to the lake itself and then took a forest trail. *Rubus pedatus*, *Rhododendron albiflorum*, and *Juncus ensifolius* were all here, and Wood Frog was at the lake shore. Among the many sedges were *Carex pauciflora*, *Carex ovalis*, and *Carex magellanica irrigua*. *Kalmia microphylla* was in fruit. Again there were many Argent and Sables. *Streptopus roseus* was attractive, and *Listera cordata* was here. We ate lunch sitting on mossy covered fallen logs in fine forest, *Viola glabella* blooming on the forest floor.

There was time to explore another site and back nearer to Whistler was a Forest Interpretive Trail at Shadow Lake, rather overgrown and obviously little visited. Yellow-rumped Warbler sang, *Pedicularis racemosa* and *Lycopodium dendroideum* were added to the list, and *Tanacetum vulgare* and *Adenocaulon bicolor* were in flower. An impressive saturniid moth was on the wing. Plants continued with *Stellaria calycantha*, *Dryopteris carthusiana* and *Melampyrum lineare*.

## Day 14 Wednesday 17<sup>th</sup> June Garibaldi Provincial Park

A short drive along the highway took us to a dirt road leading up to the Cheakamus Lake trailhead, the trail was more or less completely level and very easy, taking us above the Cheakamus River through some fine woodland habitat, flowery clearings, and ancient impressive hemlock forest.

Trailing Blackberry, *Rubus ursinus* flowered along the path, whilst clumps of *Penstemon davidsonii* on rocks had already finished flowering. There was more *Monotropa hypopitys*, and remarkably robust *Platanthera saccata* was as tall as the shortest of us! A fine stand. Anne showed us *Polystichum andersonii* with its characteristic bulbils on the fronds. *Anaphalis margaritacea* was in flower and Yellow Pine Chipmunks were much in evidence.

The yellow *Viola glabella* was a feature, growing in large patches. Pacific Fritillary flew in one of the clearings, the viola being its foodplant. The vegetation was generally very lush and verdant, with species such as *Thalictrum occidentale*, *Actaea rubra*, *Heracleum lanatum*, *Valeriana sitchensis* and *Streptopus roseus* forming dense stands. *Asarum caudatum* was locally common, and by parting the distinctive leaves the beautiful tailed flowers were revealed. Fringe Cups, *Tellima grandiflora*, was very attractive, and plants continued with *Penstemon serrulatus*, *Cirsium edule*, and *Corallorhiza mertensiana* in good flower.

Distinctive fungi included a 'sweating' bracket and probable *Helvella crispa* with a pleated stem. A pair of Hairy Woodpeckers were seen closely and as usual Winter Wren was much in evidence.

*Rosa gymnocarpa* was in bloom, and *Pyrola minor* flowered on the forest floor. Also here were *Blechnum spicant* and *Dicentra formosa*, and Chestnut-backed Chickadees were active in the conifers.

We reached the eponymous tranquil lake and had it almost to ourselves. On the water was a female Red-breasted Merganser with no fewer than 17 young in tow! Anise Swallowtail and Canadian Tiger Swallowtail were on the wing, and Camberwell Beauty was much admired.

We enjoyed lunch by the lake with fine views, Stellers Jay in attendance. *Streptopus anplexifolius* was in flower.

A slightly earlier return allowed free time back in Whistler before enjoying our farewell meal.

## **Day 15 Thursday 18<sup>th</sup> June      Departure**

Robin drove us to Vancouver, the scenery stunning as always. Viper's Bugloss was common on roadsides, and we saw Pacific Madrone here reaching the northern limits of its range. California Poppy was adventive on Vancouver roadsides.

Entering the lush temperate rainforest of Stanley Park we found a suitable place to park. We were departing today on various flights, mine being the first, and I booked a taxi to meet me here and take me to the airport. I left the group in Robin's capable hands, and she later drove everyone else to the airport. Meanwhile there was time to explore some of the leafy fern lined paths in the park.

There followed fond farewells after a superbly enjoyable and productive tour, which had notably been the first of my third century of tours for Greentours.

## Systematic List Number 1      Plants

The nomenclature and systematic order generally follow ‘Plants of Western Oregon, Washington, and British Columbia’ by Eugene N.Kozloff. As in many regional floras the families are arranged alphabetically, as are the genera and species within them, and this is followed here. The series of field guides published by Lone Pine were invaluable and have very good coverage of the flora of the region: ‘Alpine Plants of British Columbia, Alberta, and Northwest North America’ by Pojar and MacKinnon et al., 2013, ‘Plants of the Rocky Mountains’ by Kershaw, MacKinnon and Pojar, 1998, ‘Plants of Southern Interior British Columbia and the Inland Northwest’ by Parish, Coupe, and Lloyd et al., 1996, and ‘Plants of the Pacific Northwest Coast’ by Pojar and MacKinnon et al, 1994. Our previous tours here were some years ago, so the few species noted then and not seen this year I have annotated as being seen ‘in the past’. The many species added to the list this year I have annotated 2015.

### PTERIDOPHYTA – Ferns and their relatives

<i>Adiantum pedatum</i>	Maidenhair Fern	Garibaldi PP and Nairn Falls 2015
<i>Athyrium filix-femina</i>	Common Lady Fern	Widespread
<i>Blechnum spicant</i>	Deer Fern	Western BC
<i>Botrychium lunaria</i>	Moonwort	Grassi Lakes and several on Sulphur Mountain
<i>Botrychium virginianum</i>	Grape Fern	Bow Valley Provincial Park, Garibaldi PP, and Cheakamus Lake
<i>Cheilanthes gracillima</i>	Lace Fern	Columbia Lake PP 2015
<i>Cryptogramma acrostichoides</i>	American Parsley Fern	Garibaldi and Nairn Falls
<i>Cystopteris fragilis</i>	Bladder Fern	Scattered records, widespread
<i>Diplazium complanatum</i>	Northern Running Pine	Emerald Lake
<i>Dryopteris carthusiana</i>	Narrow Spiny Woodfern	Shadow Lake 2015
<i>Dryopteris dilatata</i>	Wood Fern	Western BC, locally numerous
<i>Dryopteris filix-mas</i>	Male Fern	Revelstoke 2015
<i>Equisetum arvense</i>	Common Horsetail	Widespread and common
<i>Equisetum fluviatile</i>	Water Horsetail	Scattered records
<i>Equisetum hyemale</i>	Common Scouring Rush	Emerald Lake and Vaseux Lake
<i>Equisetum palustre</i>	Marsh Horsetail	Emerald Lake 2015
<i>Equisetum pratense</i>	Meadow Horsetail	Emerald Lake 2015
<i>Equisetum scirpoides</i>	Dwarf Scouring Rush	Widespread in the Rockies
<i>Equisetum telmateia</i>	Giant Horsetail	British Columbia
<i>Equisetum variegatum</i>	Variiegated Horsetail	Emerald Lake
<i>Gymnocarpium dryopteris</i>	Oak Fern	Emerald Lake and western BC
<i>Huperzia selago</i>	Fir Clubmoss	Moraine Lake 2015
<i>Lycopodium annotinum</i>	Stiff Club-moss	Scattered forest records
<i>Lycopodium clavatum</i>	Running Clubmoss	Scattered in western BC 2015
<i>Lycopodium dendroideum</i>	Ground Pine	Shadow Lake 2015
<i>Pellaea glabella</i>	Smooth Cliff-brake	Columbia Lake PP 2015.
<i>Polypodium amorphum</i>	Pacific Polypody	Scattered west BC records
<i>Polypodium hesperium</i>	Western Polypody	Nairn Falls 2015
<i>Polypodium glycirrhiza</i>	Licorice Fern	Alice Lake PP 2015

<i>Polystichum andersoni</i>	Anderson's Sword Fern	Cheakamus Lake 2015. Fronds bear bulbils.
<i>Polystichum munitum</i>	Common Sword Fern	Locally common in western BC
<i>Pteridium aquilinum</i>	Bracken	Scattered records in BC
<i>Selaginella densa</i>	Dense Spikemoss	Okanagan 2015
<i>Woodsia obtusa</i>	Blunt-lobed Woodsia	Mt.Kobau 2015
<i>Woodsia scopulina</i>	Rocky Mountain Woodsia	Scattered records
<i>Woodwardia fimbriata</i>	Chain Fern	Stanley Park, Vancouver, 2015

## SPERMATOPHYTA

### *Gymnospermae*

#### *Cupressaceae*

<i>Juniperus communis</i>	Common Juniper	Widespread and locally common
<i>Juniperus horizontalis</i>	Creeping Juniper	Bow Valley, Emerald Lake, etc.
<i>Juniperus scopulorum</i>	Rocky Mountain Juniper	Columbia Lake PP
<i>Thuja plicata</i>	Western Redcedar	Widespread and often co-dominant

#### *Pinaceae*

<i>Abies amabilis</i>	Silver Fir	Widespread and locally numerous at timberline
<i>Abies lasiocarpa</i>	Subalpine Fir	
<i>Larix lyallii</i>	Subalpine Larch	Widespread timberline tree in Rockies
<i>Larix occidentalis</i>	Western Larch	
<i>Picea engelmannii</i>	Engelman's Spruce	Locally dominant over large areas
<i>Picea glauca</i>	White Spruce	Widespread in the Rockies
<i>Picea mariana</i>	Black Spruce	Icefields Parkway 2015
<i>Picea sitchensis</i>	Sitka Spruce	Extreme western BC
<i>Pinus albicaulis</i>	Whitebark Pine	Peyto Lake and Sulphur Mountain
<i>Pinus contorta</i>	Lodgepole Pine	Widespread and dominant over large areas
<i>Pinus monticola</i>	Western White Pine	Scattered in BC
<i>Pinus ponderosa</i>	Ponderosa Pine	Locally dominant in Okanagan
<i>Pseudotsuga menziesii</i>	Douglas Fir	Widespread, numerous in BC
<i>Tsuga heterophylla</i>	Western Hemlock	Dominant over large areas in BC

#### *Taxaceae*

<i>Taxus brevifolia</i>	Western Yew	Revelstoke and Day 12
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### *Angiospermae*

#### *Dicotyledones*

#### *Aceraceae*

<i>Acer circinnatum</i>	Vine Maple	Local in BC
<i>Acer glabrum</i>	Mountain Maple	Scattered records
<i>Acer macrophyllum</i>	Big-leaf Maple	A few BC sites

#### *Anacardiaceae*

<i>Rhus glabra</i>	Smooth Sumac	Okanagan
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<i>Rhus radicans</i>	Poison Ivy	Okanagan
<b><i>Apiaceae</i></b>		
<i>Cicuta douglasii</i>	Water Hemlock	Leaves in Revelstoke
<i>Heracleum lanatum</i>	Cow Parsnip	Widespread, mostly in BC
<i>Ligusticum</i> sp.		Day 7
<i>Lomatium ambiguum</i>	Swale Desert-Parsley	This species also on Mt.Kobau 2015?
<i>Lomatium macrocarpum</i>	Large-fruited Lomatium	Mt.Kobau
<i>Lomatium triternatum</i>	Narrow-leaved Lomatium	Mt.Kobau
<i>Lomatium</i> sp.		Another species at Mt.Kobau too, possibly <i>Lomatium ambiguum</i>
<i>Oenanthe sarmentosa</i>	Pacific Water-Parsley	Garibaldi PP 2015
<i>Osmorhiza chilensis</i>	Sweet Cicely	Emerald Lake etc.
<i>Osmorhiza depauperata</i>	Antenna Plant	Widespread in BC
<i>Perideridia gairdneri</i>	Gairdner's Yampah	Mt.Kobau in the past
<i>Zizia aptera</i>	Heart-leaved Alexanders	Bow Valley Provincial Park
<b><i>Apocynaceae</i></b>		
<i>Apocynum androsaemifolium</i>	Spreading Dog's-bane	Locally common, as at Nairn Falls
<i>Apocynum cannabinum</i>		Near Oliver
<b><i>Araliaceae</i></b>		
<i>Aralia nudicaulis</i>	Wild Sarsaparilla	Scattered BC records
<i>Opopanax horridus</i>	Devil's Claw	Scattered records, numerous in Revelstoke
<b><i>Aristolochiaceae</i></b>		
<i>Asarum caudatum</i>	Western Wild Ginger	Locally common in Garibaldi pP etc. Also Revelstoke. In good flower.
<b><i>Asclepiadaceae</i></b>		
<i>Asclepias speciosa</i>	Showy Milkweed	Locally common in the Okanagan
<b><i>Asteraceae</i></b>		
<i>Achillea millefolium</i>	Yarrow	Widespread and common
<i>Adenocaulon bicolor</i>	Pathfinder	In flower Shadow Lake and Cheakamus Lake, 2015
<i>Agoseris aurantiaca</i>	Orange Agoseris	Okanagan 2015
<i>Agoseris glauca</i>	False Dandelion	Bow Valley PP and Mt.Kobau
<i>Anaphalis margaritacea</i>	Pearly Everlasting	Scattered records
<i>Antennaria alpina</i>	Alpine Pussytoes	Sulphur Mountain
<i>Antennaria lanata</i>	Woolly Pussytoes	Emerald Lake etc.
<i>Antennaria media</i>	Rocky Mountain Pussytoes	Moraine Lake 2015
<i>Antennaria neglecta</i>	Field Pussytoes	Beaver Lake road, 2015
<i>Antennaria pulcherrima</i>	Showy Pussytoes	Okanagan
<i>Antennaria racemosa</i>	Racemose Pussytoes	Widespread, e.g. Mt.Kobau
<i>Antennaria rosea</i>	Rosy Everlasting	Widespread in small numbers
<i>Antennaria umbrinella</i>	Umber Pussytoes	Columbia Lake PP 2015

<i>Arnica cordifolia</i>	Heart-leaved Arnica	Locally common in the Rockies and Okanagan
<i>Arnica diversifolia</i>	Lawless Arnica	Loggers Lake in the past
<i>Arnica fulgens</i>	Orange Arnica	Day 5 and Mt.Kobau, 2015
<i>Arnica gracilis</i>	Smallhead Arnica	Moraine Lake 2015
<i>Artemisia frigida</i>	Prairie Sagewort	Bow Valley, etc.
<i>Artemisia tridentata</i>	Tall Sagebrush	Dominant in Sagebrush in Okanagan
<i>Aster conspicuus</i>	Showy Aster	
<i>Aster foliaceus</i>	Leafy Aster	
<i>Aster laevis</i>	Smooth Aster	
<i>Aster sibiricus</i>	Arctic Aster	
<i>Aster subspicatus</i>	Douglas's Aster	This species Mt.Kobau? And Nairn Falls?
<i>Aster spp.</i>		Various other species were not identified
<i>Balsamorhiza sagittata</i>	Arrow-leaved Balsamroot	Daily in the Okanagan
<i>Bellis perennis</i>	Daisy	Day 8 only!
<i>Centaurea maculosa</i>	Spotted Knapweed	Day 5
<i>Chaenactis douglasii</i>	Hoary False Yarrow	South of Lillooet 2015
<i>Chamomilla suaveolens</i>	Pineapple Weed	Scattered records
<i>Chrysopsis villosa</i>	Golden Aster	
<i>Chrysothamnus nauseosus</i>	Common Rabbit-brush	Southern BC
<i>Cichorium intybus</i>	Chicory	Roadsides in Okanagan
<i>Cirsium arvense</i>	Creeping Thistle	Okanagan
<i>Cirsium brevistylum</i>	Short-styled Thistle	Okanagan
<i>Cirsium edule</i>	Edible Thistle	Scattered BC records
<i>Cirsium foliosum</i>	Leafy Thistle	Day 4, 2015
<i>Cirsium hookerianum</i>	White Thistle	Wilcox Pass
<i>Cirsium vulgare</i>	Spear Thistle	Okanagan
<i>Cirsium spp.</i>	thistles	A few others unidentified
<i>Crepis atrabarba</i>	Slender Hawksbeard	Mt.Baldy and Mt.Kobau
<i>Crepis ?paludosa</i>	Marsh Hawksbeard	Western BC
<i>Erigeron aureus</i>	Golden Fleabane	Wilcox Pass
<i>Erigeron caespitosus</i>	Tufted Daisy	Bow Valley PP 2015
<i>Erigeron compositus</i>	Cut-leaved Fleabane	Common on Wilcox Pass, also Mt.Kobau and a few other sites
<i>Erigeron corymbosus</i>	Long-leaved Daisy	Mt.Kobau
<i>Erigeron divergens</i>	Spreading Daisy	Okanagan
<i>Erigeron glacialis</i>	Subalpine Daisy	Okanagan 2015
<i>Erigeron linearis</i>	Fine-leaved Daisy	Mt.Kobau 2015
<i>Erigeron peregrinus</i>	Tall Purple Fleabane	Scattered in the Rockies
<i>Erigeron pumilus ssp.intermedius</i>	Shaggy Daisy	Okanagan
<i>Erigeron speciosus</i>	Showy Daisy	
<i>Erigeron subtrinervis</i>	Trinerved Daisy	Vaseux Lake 2015
<i>Erigeron spp.</i>	Fleabanes	Various other species were not identified
<i>Gaillardia aristata</i>	Brown-eyed Susan	Numerous in lower drier areas
<i>Haplopappus lyallii</i>	Lyall's Goldenweed	Columbia Lake PP 2015
<i>Hieracium albiflorum</i>	White-flowered Hawkweed	Western BC
<i>Hieracium aurantiacum</i>	Fox and Cubs	Widespread, abundant on BC roadsides
<i>Hieracium umbellatum</i>	Narrow-leaved Hawkweed	Roadside weed at lower altitudes

<i>Hypochoeris glabra</i>	Smooth Cat's-ear	Weed in Vancouver
<i>Hypochaeris radicata</i>	Rough Cat's-ear	Western BC
<i>Lagophylla ramosissima</i>	Common Hareleaf	Okanagan
<i>Leucanthemum vulgare</i>	Ox-eye Daisy	Widespread
<i>Mycelis muralis</i>	Wall Lettuce	Scattered in BC
<i>Petasites frigidus</i>	Sweet Coltsfoot	Local, still in flower Emerald Lake
<i>Petasites palmatus</i>	Western Coltsfoot	
<i>Petasites sagittatus</i>	Arrow-leaved Coltsfoot	Noted in leaf
<i>Senecio canus</i>	Woolly Butterweed	Bow Valley Provincial Park
<i>Senecio indecorus</i>	Rayless Mountain Butterweed	Mt.Baldy etc.
<i>Senecio interrimus</i>	California Butterweed	Mt.Kobau
<i>Senecio pauciflorus</i>	Rayless Alpine Butterweed	Bow Valley PP 2015
<i>Senecio pseud aureus</i>	Streambank Butterweed	Bow Valley Provincial Park in the past
<i>Senecio streptanthifolius</i>	Rocky Mountain Butterweed	Day 5, 2015
<i>Senecio triangularis</i>	Triangular-leaved Senecio	Scattered records
<i>Senecio vulgaris</i>	Groundsel	
<i>Solidago canadensis</i>	Canada Goldenrod	Day 7, 2015
<i>Solidago multiradiata</i>	Northern Goldenrod	Emerald Lake and Day 4
<i>Sonchus asper</i>	Prickly Sow Thistle	
<i>Sonchus oleraceus</i>	Smooth Sow Thistle	
<i>Tanacetum vulgare</i>	Tansy	Shadow Lake
<i>Taraxacum ceratophorum</i>	Horned Dandelion	Sulphur Mountain
<i>Taraxacum officinale</i>	Dandelion	Widespread and extremely abundant
<i>Tragopogon dubius</i>	Goatsbeard	Scattered records
<i>Tragopogon pratensis</i>	Meadow Salsify	Scattered records

### ***Berberidaceae***

<i>Berberis aquifolium</i>	Oregon Grape	Okanagan
<i>Berberis nervosa</i>	Long-leaved Oregon Grape	Western BC
<i>Berberis repens</i>	Creeping Oregon Grape	Emerald Lake 2015

### ***Betulaceae***

<i>Alnus incana</i>	Mountain Alder	Emerald Lake and Day 4
<i>Alnus rubra</i>	Red Alder	Widespread, locally common
<i>Alnus viridis sinuata</i>	Sitka Alder	Mt.Baldy etc.
<i>Betula glandulosa</i>	Bog Birch	Higher altitudes in the Rockies
<i>Betula occidentalis</i>	Water Birch	Bow Valley PP, and Mt.Baldy
<i>Betula papyrifera</i>	Paper Birch	Only in Whistler
<i>Corylus cornuta</i> var. <i>californica</i>	California Hazlenut	Scattered records

### ***Boraginaceae***

<i>Amsinckia menziesii</i>	Menzies' Fiddleneck	Mt.Kobau in the past
<i>Cynoglossum officinale</i>	Hound's Tongue	Okanagan
<i>Echium vulgare</i>	Viper's Bugloss	Roadsides in BC
<i>Hackelia micrantha</i>	Small-flowered Stickseed	Mt.Kobau
<i>Lappula redowskii</i>	Western Stickseed	Mt.Kobau 2015
<i>Lappula squarrosa</i>	Bristly Stickseed	Bow Valley PP and Cheakamus Lake

<i>Lithospermum ruderale</i>	Woolly Puccoon	Bow Valley PP
<i>Mertensia paniculata</i>	Tall Bluebells	Bow Valley Provincial Park
<i>Myosotis alpestris</i>	Alpine Forget-me-not	Wilcox Pass and Emerald Lake
<i>Myosotis laxa</i>	Small Forget-me-not	Okanagan
<i>Myosotis stricta</i>	Short-stalked Forget-me-not	Western BC in the past
<b><i>Brassicaceae</i></b>		
<i>Arabis drummondii</i>	Drummond's Rock-cress	Scattered in the Rockies
<i>Arabis hirsuta</i>	Hairy Rockcress	Bow Valley PP 2015
<i>Arabis holboellii</i>	Holboell's Rock-cress	Mt.Kobau
<i>Arabis lemmonii</i>	Lemmon's Rock-cress	Day 3 and Sulphur Mountain 2015
<i>Arabis lyallii</i>	Lyall's Rock-cress	Wilcox Pass in the past
<i>Berteroa incana</i>	Hoary Alison	Mt.Kobau in the past
<i>Boechera stricta</i>	Straight-up Suncress	Wilcox Pass 2015
<i>Camelina microcarpa</i>	Little-podded Falseflax	Okanagan 2015
<i>Capsella bursa-pastoris</i>	Shepherd's Purse	A few records
<i>Descurainia sophia</i>	Flixweed	Mt.Kobau and Day 7
<i>Draba aurea</i>	Golden Draba	Peyto Lake 2015
<i>Draba borealis</i>	Northern Draba	Wilcox Pass 2015
<i>Draba cana</i>	Hoary Draba	Sulphur Mountain 2015
<i>Draba cinerea</i>	Grey-leaf Draba	Wilcox Pass and Emerald Lake 2015
<i>Draba fladnizensis</i>	Austrian Draba	Possibly this at Emerald Lake 2015
<i>Draba incerta</i>	Yellowstone Draba	Wilcox Pass and Sulphur Mountain
<i>Draba nemorosa</i>	Woods Draba	Mt.Kobau 2015
<i>Draba nivalis</i>	Snow Draba	Sulphur Mountain
<i>Draba paysonii</i>	Payson's Draba	Wilcox Pass?
<i>Draba species</i>		Others unidentified
<i>Erysimum capitatum</i>	Western Wallflower	Sulphur Mountain
<i>Erysimum cheiranthoides</i>	Wormseed Mustard	Bow Valley Provincial Park
<i>Lepidium densiflorum</i>	Common Peppergrass	Mt.Kobau
<i>Lobularia maritima</i>	Sweet Alison	Vancouver
<i>Lunaria annua</i>	Honesty	Western BC in the past
<i>Physaria didymocarpa</i>	Common Twinpod	In flower along the Icefields Parkway, from the vehicle!
<i>Sisymbrium altissimum</i>	Tumble Mustard	Okanagan
<i>Thlaspi arvense</i>	Field Pennycress	Scattered records, e.g. Mt.Baldy, in the past
<i>Turritis glabra</i>	Tower Mustard	
<b><i>Buddlejaceae</i></b>		
<i>Buddleja davidii</i>	Buddleia	Naturalised in western BC
<b><i>Cactaceae</i></b>		
<i>Opuntia fragilis</i>	Brittle Prickly Pear Cactus	Okanagan in the past
<i>Opuntia polyacantha</i>	Many-spined Prickly Pear Cactus	Mt.Kobau, in flower, in the past
Surprisingly neither of these species seen this year!		

### ***Campanulaceae***

<i>Campanula persicifolia</i>	Peach-leaved Bellflower	Apparently this naturalised at Nairn Falls. White flowers.
<i>Campanula rotundifolia</i>	Harebell	Columbia Lake PP

### ***Caprifoliaceae***

<i>Linnaea borealis</i>	Twinflower	Widespread and often in abundant flower in forests, e.g. Emerald Lake and Whistler area.
<i>Lonicera ciliosa</i>	Orange Honeysuckle	Beaver Lake road
<i>Lonicera dioica</i>	Twining Honeysuckle	Bow Valley Provincial Park
<i>Lonicera hispidula</i>	Hairy Honeysuckle	In leaf at Nairn Falls 2015
<i>Lonicera involucrata</i>	Twinberry	Widespread
<i>Lonicera utahensis</i>	Utah Honeysuckle	Emerald Lake 2015
<i>Sambucus caerulea</i>	Blue Elderberry	Okanagan
<i>Sambucus racemosa</i>	Red Elderberry	Widespread
<i>Symphoricarpos albus</i>	Snowberry	Widespread
<i>Symphoricarpos mollis</i>	Creeping Snowberry	Scattered records
<i>Viburnum edule</i>	Mooseberry	Cheakamus Lake Trail and Day 5

### ***Caryophyllaceae***

<i>Arenaria capillaris</i>	Thread-leaved Sandwort	Mt.Kobau, locally common
<i>Arenaria serpyllifolia</i>	Thyme-leaved Sandwort	Mt.Kobau 2015
<i>Cerastium arvense</i>	Field Mouse-ear	Bow Valley Provincial Park
<i>Cerastium glomeratum</i>	Sticky Mouse-ear	A few records
<i>Gypsophila paniculata</i>	Baby's Breath	Okanagan
<i>Minuartia austromontana</i>	Rocky Mountain Sandwort	Wilcox Pass
<i>Minuartia rubella</i>	Boreal Sandwort	Sulphur Mountain 2015
<i>Moehringia lateriflora</i>	Blunt-leaved Sandwort	Bow Valley Provincial Park in the past
<i>Sagina saginoides</i>	Arctic Pearlwort	Sunshine Meadows in the past
<i>Silene menziesii</i>	Menzie's Campion	Columbia Lake PP
<i>Silene noctiflora</i>	Night-flowering Catchfly	Beaver Lake road and Mt.Kobau 2015
<i>Spergularia rubra</i>	Sand Spurrey	Vancouver roadsides
<i>Stellaria calycantha</i>	Northern Starwort	Bow Valley Provincial Park, and Day 12.
<i>Stellaria media</i>	Chickweed	Recorded
<i>Stellaria longipes</i>	Long-stalked Starwort	Mt.Baldy

### ***Celastraceae***

<i>Pachistima myrsinites</i>	Mountain Boxwood	Revelstoke, Garibaldi PP, and Cheakamus Lake Trail
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### ***Chenopodiaceae***

<i>Atriplex patula</i>	Common Orache	
<i>Chenopodium album</i>	Fat Hen	Scattered records

### ***Convolvulaceae***

<i>Convolvulus arvensis</i>	Field Bindweed	Okanagan
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### ***Cornaceae***

<i>Cornus nuttallii</i>	Pacific Dogwood	Going over at Nairn Falls, and at Cheakamus Lake
<i>Cornus stolonifera</i>	Red-osier Dogwood	Widespread and common
<i>Cornus unalaschkensis</i>	Bunchberry	Widespread and common

### ***Crassulaceae***

<i>Rhodiola integrifolia</i>	Western Roseroot	Mt.Kobau in the past
<i>Rhodiola rhodantha</i>	Rose Crown	Grassi Lakes 2015
<i>Sedum lanceolatum</i>	Lance-leaved Stonecrop	Wilcox Pass, Mt.Kobau, etc.

### ***Droseraceae***

<i>Drosera rotundifolia</i>	Round-leaved Sundew	Alice Lake PP
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### ***Eleagnaceae***

<i>Eleagnos commutata</i>	Silverberry	Very locally abundant, as at Bow Valley
<i>Shepherdia canadensis</i>	Canada Buffaloberry	Widespread in the Rockies

### ***Ericaceae***

<i>Allotropa virgata</i>	Sugarstick	Garibaldi PP 2015
<i>Arbutus menziesii</i>	Pacific Madrone	Roadsides near Vancouver
<i>Arctostaphylos uva-ursi</i>	Bearberry	Widespread and common
<i>Cassiope mertensiana</i>	White Mountain Heather	In leaf on Wilcox Pass and Peyto Lake
<i>Cassiope tetragona</i>	Four-angled Mountain Heather	In flower on Wilcox Pass
<i>Chimaphila umbellata</i>	Prince's Pine	Widespread in flower in Whistler area, and on Day 7
<i>Chimaphila menziesii</i>	Little Prince's Pine	At one site in Garibaldi Provincial Park
<i>Gaultheria shaloni</i>	Salal	Alice Lake PP
<i>Hemitomes congestum</i>	Gnome-plant	A great find at Alice Lake PP, 2015
<i>Kalmia microphylla</i>	Western Swamp Laurel	In fruit at Paint Pots and Joffre Lakes
<i>Ledum glandulosum</i>	Trapper's Tea	Mt.Baldy and western BC
<i>Ledum groenlandicum</i>	Common Labrador Tea	Several Rockies sites
<i>Menziesia ferruginea</i>	Rustyleaf	Common at Emerald Lake, Day 5, and western BC
<i>Moneses uniflora</i>	One-flowered Wintergreen	Emerald Lake
<i>Monotropa hypopitys</i>	Broad-leaved Pinesap	Alice Lake PP, Garibaldi Provincial Park, and Cheakamus Lake.
<i>Monotropa uniflora</i>	Indian Pipe	Fine at Alice Lake 2015
<i>Orthilia secunda</i>	Nodding Wintergreen	Local but widespread
<i>Phyllodoce empetriformis</i>	Pink Mountain-heather	In leaf Sulphur Mountain
<i>Phyllodoce glanduliflora</i>	Yellow Heather	In flower Wilcox Pass and Moraine Lake
<i>Pyrola asarifolia</i>	Common Pink Wintergreen	Widespread and locally common
<i>Pyrola chlorantha</i>	Greenish-flowered Wintergreen	Widespread, seen on 6 days
<i>Pyrola minor</i>	Common Wintergreen	In flower Cheakamus Lake
<i>Pyrola picta</i>	White-veined Wintergreen	In bud and in flower, western BC
<i>Rhododendron albiflorum</i>	White-flowered Rhododendron	Mt.Baldy and Joffre Lakes
<i>Vaccinium caespitosum</i>	Dwarf Blueberry	Scattered records
<i>Vaccinium membranaceum</i>	Black Huckleberry	Scattered records

<i>Vaccinium myrtillus</i>	Bilberry	Scattered records
<i>Vaccinium ovalifolium</i>	Oval-leaved Blueberry	Day 7 and Whistler area
<i>Vaccinium oxycoccos</i>	Cranberry	Paint Pots
<i>Vaccinium parvifolium</i>	Red Huckleberry	Western BC
<i>Vaccinium scoparium</i>	Grouseberry	Scattered records
<b><i>Euphorbiaceae</i></b>		
<i>Euphorbia esula</i>	Leafy Spurge	Columbia Valley and Okanagan
<b><i>Fabaceae</i></b>		
<i>Astragalus alpinus</i>	Alpine Milk-vetch	Wilcox Pass and Grassi Lakes
<i>Astragalus americanus</i>	American Milk-vetch	Rockies in the past. Also known as <i>Astragalus frigidus</i> var. <i>americanus</i>
<i>Astragalus collinus</i>	Hillside Milk-vetch	Mt.Baldy
<i>Astragalus dasyglottis</i>	Purple Milk-vetch	Rockies in the past, also known as <i>Astragalus agestis</i>
<i>Astragalus miser</i>	Timber Milk-vetch	East of Radium and Mt.Kobau 2015
<i>Astragalus tenellus</i>	Pulse Milk-vetch	Bow Valley PP
<i>Astragalus eucosmus</i>	Elegant Milk-vetch	Bow Valley PP etc. 2015
<i>Coronilla varia</i>	Crown Vetch	Near Vaseux Lake 2015
<i>Hedysarum alpinum</i>	Alpine Sweet-vetch	Bow Valley Provincial Park in the past
<i>Hedysarum boreale</i>	Northern Sweet-vetch	Common at Bow Valley Provincial Park, scattered elsewhere
<i>Hedysarum sulphurescens</i>	Yellow Sweet-vetch	Widespread in the Rockies
<i>Lathyrus ochroleucus</i>	Creamy Peavine	Bow Valley and Day 4
<i>Lathyrus nevadensis</i>	Purple Peavine	Laurie Guichon Memorial Grasslands 2015
<i>Lotus corniculatus</i>	Bird's-foot Trefoil	Okanagan
<i>Lotus denticulatus</i>	Meadow Lotus	Between Whistler and Oliver in the past
<i>Lupinus arcticus</i>	Arctic Lupin	Scattered in BC
<i>Lupinus lyallii</i>	Dwarf Mountain Lupin	East of Whistler in the past
<i>Lupinus sericeus</i>	Silky Lupin	Okanagan
<i>Medicago lupulina</i>	Black Medick	Widespread
<i>Medicago sativa</i>	Lucerne	Columbia Lake PP and Okanagan
<i>Melilotus alba</i>	White Melilot	Okanagan
<i>Melilotus officinalis</i>	Ribbed Melilot	Scattered records
<i>Oxytropis campestris</i>	Field Locoweed	Widespread
<i>Oxytropis sericea</i>	Silky Locoweed	Scattered in the Rockies
<i>Oxytropis splendens</i>	Showy Locoweed	Widespread in the Rockies
<i>Trifolium aureum</i>	Hop Clover	Mt.Baldy
<i>Trifolium dubium</i>	Shamrock	
<i>Trifolium hybridum</i>	Alsike Clover	
<i>Trifolium pratense</i>	Red Clover	East of Radium
<i>Trifolium repens</i>	White Clover	A few records
<i>Ulex europaeus</i>	Gorse	
<i>Vicia americana</i>	American Vetch	Scattered records
<i>Vicia cracca</i>	Tufted Vetch	Scattered BC records

***Fumariaceae***

<i>Corydalis aurea</i>	Golden Corydalis	Bow Valley PP 2015
<i>Corydalis sempervirens</i>	Pink Corydalis	Nairn Falls in the past
<i>Dicentra formosa</i>	Pacific Bleeding Heart	Garibaldi PP and Cheakamus Lake.

***Gentianaceae***

<i>Gentiana prostrata</i>	Moss Gentian	Several on Wilcox Pass in the past
<i>Gentianella amarella</i>	Northern Gentianella	Beaver Lake Road

***Geraniaceae***

<i>Erodium cicutarium</i>	Common Storksbill	
<i>Geranium molle</i>	Dove's-foot Crane's-bill	Day 10, 2015
<i>Geranium richardsonii</i>	White Geranium	In leaf in Alberta
<i>Geranium viscosissimum</i>	Sticky Purple Geranium	Laurie Guichon Memorial Grasslands

***Grossulariaceae***

<i>Ribes cereum</i>	Wax Currant	Okanagan
<i>Ribes hudsonianum</i>	Northern Black Currant	
<i>Ribes lacustre</i>	Black Gooseberry	Widespread
<i>Ribes oxyacanthoides</i>	Northern Gooseberry	Sulphur Mountain
<i>Ribes viscosissimum</i>	Sticky Currant	Scattered records

***Hydrophyllaceae***

<i>Hydrophyllum capitatum</i>	Ballhead Waterleaf	Mt.Kobau
<i>Hydrophyllum fendleri</i>	Fendler's Waterleaf	West of Lillooet 2015
<i>Phacelia hastata</i>	Silverleaf Phacelia	Mt.Kobau
<i>Phacelia linearis</i>	Slender-leaved Phacelia	Mt.Kobau and Columbia Lake PP
<i>Phacelia sericea</i>	Silky Phacelia	Fine on Sulphur Mountain 2015

***Hypericaceae***

<i>Hypericum perforatum</i>	Perforate St.John's Wort	Scattered records
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***Lamiaceae***

<i>Marrubium vulgare</i>	White Horehound	Okanagan in the past
<i>Monarda fistulosa</i>	Horsemint	Mt.Kobau
<i>Prunella vulgaris</i>	Self-heal	Scattered records

***Lentibulariaceae***

<i>Pinguicula vulgaris</i>	Common Butterwort	Widespread in bogs in the Rockies
<i>Utricularia intermedia</i>	Flat-leaved Bladderwort	Vaseux Lake 2015

***Linaceae***

<i>Linum lewisii</i>	Lewis' Flax	Local in the Rockies
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***Loasaceae***

<i>Mentzelia laevicaulis</i>	Blazing Star	Several south of Lillooet 2015
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**Menyanthaceae**

*Menyanthes trifoliata* Bogbean Alice Lake PP

**Nymphaeaceae**

*Nuphar lutea* ssp. *polysepala* Yellow Pond Lily Widespread  
*Nymphaea odorata* Fragrant Water Lily Alice Lake, not native

**Onagraceae**

*Circaea alpina* ssp. *pacifica* Enchanter's Nightshade Scattered records  
*Epilobium anagallidifolium* Alpine Willowherb Sulphur Mountain 2015  
*Epilobium angustifolium* Rosebay Willowherb Widespread  
*Epilobium latifolium* River Beauty Garibaldi and Kootenay river gravels in the past  
*Epilobium luteum* Yellow-flowered Willowherb Garibaldi river gravels in the past  
*Epilobium minutum* Tiny Willowherb Moraine Lake  
*Epilobium* spp. Other species recorded occasionally  
*Oenothera villosa* Yellow Evening Primrose Roadsides

**Orobanchaceae**

*Orobanche uniflora* Naked Broomrape A few on Mt. Kobau

**Papaveraceae**

*Eschscholtzia californica* California Poppy Roadsides near Vancouver  
*Papaver nudicaule* Okanagan

**Parnassiaceae**

*Parnassius fimbriata* Fringed Grass-of-Parnassus In leaf in the Rockies  
*Parnassia palustris* Grass-of-Parnassus Possibly present too

**Philadelphaceae**

*Philadelphus lewisii* Mock Orange In fine flower on Mt. Kobau, and elsewhere in Okanagan

**Plantaginaceae**

*Plantago lanceolata* Ribwort Plantain Scattered records  
*Plantago major* Greater Plantain Mt. Kobau  
*Plantago patagonica* Indian Wheat Mt. Kobau in the past

**Polemoniaceae**

*Collomia heterophylla* Varied-leaved Collomia Scattered in the past  
*Collomia linearis* Narrow-leaved Collomia Beaver Lake road and Mt. Kobau  
*Ipomopsis aggregata* Scarlet Gilia Locally numerous in Okanagan  
*Microsteris gracilis* Annual Phlox Scattered records in the past  
*Phlox hoodii* Moss Phlox Premier Lake area in the past  
*Phlox longifolia* Long-leaved Phlox Okanagan  
*Polemonium pulcherrimum* Showy Polemonium Mt. Kobau, rather common at higher levels

### ***Polygonaceae***

<i>Eriogonum heracleoides</i>	Parsnip-flowered Buckwheat	Locally common in the Okanagan
<i>Eriogonum umbellatum</i>	Sulphur-flowered Buckwheat	Okanagan
<i>Fallopia convolvulus</i>	Black Bindweed	Vaseux Lake 2015
<i>Oxyria digyna</i>	Mountain Sorrel	Moraine Lake 2015
<i>Polygonum viviparum</i>	Alpine Bistort	Bow Valley Provincial Park in the past
<i>Rumex acetosella</i>	Sheep's Sorrel	Scattered records
<i>Rumex crispus</i>	Curly Dock	Roadside weed 2015
<i>Rumex obtusifolius</i>	Broad-leaved Dock	Roadside weed 2015

### ***Portulacaceae***

<i>Claytonia lanceolata</i>	Western Spring Beauty	Mt.Kobau and the Rockies
<i>Claytonia sibirica</i>	Candyflower	Western BC
<i>Lewisia pygmaea</i>	Alpine Lewisia	Mt.Baldy, a fine addition in 2015
<i>Lewisia rediviva</i>	Bitterroot	In fine flower on Mt.Kobau
<i>Montia parvifolia</i>	Small-leaved Claytonia	Western BC

### ***Primulaceae***

<i>Androsace chamaejasme</i>	Alpine Rock-jasmine	Locally very common, as on Sulphur Mountain
<i>Androsace septentrionalis</i>	Northern Rock-jasmine	Scattered in the Rockies, e.g. Grassi Lakes
<i>Dodecatheon pulchellum</i>	Few-flowered Shooting Star	Mt.Kobau and Bow Valley Provincial Park, in fine flower
<i>Lysimachia thyrsiflora</i>	Tufted Loosestrife	Revelstoke 2015
<i>Primula mistassinica</i>		Emerald Lake and Paint Pots, in fine flower
<i>Trientalis arctica</i>	Northern Starflower	Lakeside bog at Logger's Lake in the past
<i>Trientalis latifolia</i>	Pacific Starflower	Alice Lake in leaf, in flower Nairn Falls

### ***Ranunculaceae***

<i>Actaea rubra</i>	Red and White Baneberry	Scattered records
<i>Anemone drummondii</i>	Drummond's Anemone	Sulphur Mountain
<i>Anemone multifida</i>	Windflower	Widespread in the Rockies
<i>Anemone occidentalis</i>	Western Anemone	Peyto Lake
<i>Anemone parviflora</i>	Few-flowered Anemone	Widespread in the Rockies
<i>Anemone patens</i>	Prairie Crocus (sic)	Bow Valley PP
<i>Aquilegia brevistyla</i>	Blue Columbine	Bow Valley and Grassi Lakes
<i>Aquilegia flavescens</i>	Yellow Columbine	Widespread in Okanagan and Rockies
<i>Aquilegia formosa</i>	Crimson Columbine	Locally common in BC
<i>Caltha leptosepala</i>	White Marsh Marigold	Mt.Kobau and Peyto Lake in the past
<i>Clematis ligusticifolia</i>	White Clematis	Okanagan
<i>Clematis occidentalis</i>	Columbia Bower	Bow Valley, Emerald Lake, Grassi Lakes, etc.
<i>Clematis tangutica</i>	Golden Clematis	Naturalised on roadsides south of Radium
<i>Delphinium bicolor</i>	Low Larkspur	Bow Valley PP 2015 (PGC)

<i>Delphinium glaucum</i>	Tall Larkspur	Noted in leaf
<i>Delphinium nuttallianum</i>	Upland Larkspur	Mt.Kobau and Mt.Baldy
<i>Ranunculus acris</i>	Meadow Buttercup	A few records
<i>Ranunculus aquatilis</i>	White Water Buttercup	Laurie Guichon Memorial Grasslands
<i>Ranunculus eschscholtzii</i>	Subalpine Buttercup	Icefields Parkway
<i>Ranunculus flammula</i>	Lesser Spearwort	Mt.Baldy in the past
<i>Ranunculus gmelinii</i>	Small Yellow Water Buttercup	Possibly this at Bow Valley PP
<i>Ranunculus nivalis</i>	Snow Buttercup	Peyto Lake 2015
<i>Ranunculus occidentalis</i>	Western Buttercup	Recorded 2015
<i>Ranunculus pygmaeus</i>	Pygmy Buttercup	Sunshine in the past
<i>Ranunculus repens</i>	Creeping Buttercup	Garibaldi in the past
<i>Ranunculus uncinatus</i>	Little Buttercup	Scattered records
<i>Thalictrum occidentale</i>	Western Meadow-rue	Widespread
<i>Thalictrum venulosum</i>	Veiny Meadow-rue	West of Lillooet 2015
<i>Trollius albiflorus</i>	Globeflower	Emerald Lake, and Peyto Lake

### ***Rhamnaceae***

<i>Ceanothus sanguineus</i>	Redstem Ceanothus	
<i>Rhamnus purshiana</i>	Cascara	Garibaldi

### ***Rosaceae***

<i>Amelanchier alnifolia</i>	Western Service Berry	Common and widespread
<i>Aruncus dioicus</i>	Goatsbeard Spiraea	Widespread in BC
<i>Crataegus douglasii</i>	Black Hawthorn	Revelstoke
<i>Dryas drummondii</i>	Yellow Dryad	Locally very common in the Rockies
<i>Dryas integrifolia</i>	Entire-leaved Mountain Avens	Possibly this at Wilcox Pass
<i>Dryas octopetala</i>	White Mountain Avens	Locally very common in the Rockies
<i>Fragaria vesca</i>	Wood Strawberry	Rockies
<i>Fragaria virginiana</i>	Scarlet Strawberry	Widespread and common
<i>Geum macrophyllum</i>	Large-leaved Avens	Scattered records
<i>Geum triflorum</i>	Western Red Avens	Bow Valley Provincial Park
<i>Holodiscus discolor</i>	Ocean Spray	Widespread in BC
<i>Malus fusca</i>	Oregon Crab Apple	
<i>Physocarpus malvaceus</i>	Mallow Ninebark	Scattered Rockies records 2015
<i>Potentilla anserina</i>	Silverweed	Bow Valley PP 2015
<i>Potentilla concinna</i>		
<i>Potentilla fruticosa</i>	Shrubby Cinquefoil	Common in the Rockies, also known as <i>Pentaphylloides floribunda</i>
<i>Potentilla glaucophylla</i>	Vari-leaved Cinquefoil	Mt.Kobau and Wilcox Pass
<i>Potentilla gracilis</i>	Slender Cinquefoil	Mt.Baldy
<i>Potentilla glandulosa</i>	Sticky Cinquefoil	Mt.Kobau and Day 10
<i>Potentilla nivea</i>	Snow Cinquefoil	Wilcox Pass and Sulphur Mountain
<i>Potentilla palustris</i>	Marsh Cinquefoil	Revelstoke
<i>Potentilla pensylvanica</i>	Prairie Cinquefoil	Bow Valley Provincial Park in the past
<i>Potentilla recta</i>	Sulphur Cinquefoil	Beaver Lake road 2015
<i>Potentilla uniflora</i>	One-flowered Cinquefoil	Sulphur Mountain 2015
<i>Potentilla</i> spp.	cinquefoil spp.	Others unidentified

<i>Prunus virginiana</i>	Western Choke Cherry	Scattered records
<i>Purshia tridentata</i>	Antelope Brush	Mt.Kobau and sagebrush
<i>Rosa acicularis</i>	Prickly Rose	Common in Alberta, of which it is the provincial flower
<i>Rosa gymnocarpa</i>	Baldhip Rose	Nairn Falls 2015
<i>Rosa nutkana</i>	Nootka Rose	Columbia Lake, Okanagan, etc.
<i>Rosa woodsii</i>	Prairie Rose	Day 10
<i>Rubus parviflorus</i>	Thimbleberry	Widespread and common in western BC
<i>Rubus pedatus</i>	Strawberry Bramble	Emerald Lake and western BC
<i>Rubus spectabilis</i>	Salmon-berry	Garibaldi Provincial Park etc.
<i>Rubus ursinus</i>	Trailing Blackberry	Cheakamus Lake 2015
<i>Sibbaldia procumbens</i>	Sibbaldia	Moraine Lake and Sulphur Mountain 2015
<i>Sorbus scopulina</i>	Western Mountain Ash	Widespread in BC
<i>Sorbus sitchensis</i>	Sitka Mountain Ash	Scattered in Alberta
<i>Spiraea betulifolia</i>	White Spiraea	Day 7 and Nairn Falls
<i>Spiraea douglasii</i>	Douglas' Hardhack	Scattered in BC
<b><i>Rubiaceae</i></b>		
<i>Galium aparine</i>	Cleavers	Scattered records
<i>Galium boreale</i>	Northern Bedstraw	Widespread in the Rockies
<i>Galium</i> spp.	bedstraws	Others unidentified
<b><i>Salicaceae</i></b>		
<i>Populus balsamifera</i>		
<i>ssp.trichocarpa</i>	Black Cottonwood	Scattered records
<i>ssp.balsamifera</i>	Balsam Poplar	Widespread
<i>Populus tremuloides</i>	Aspen	Widespread and very common
<i>Salix arctica</i>	Arctic Willow	Sulphur Mountain 2015
<i>Salix barrattiana</i>	Barratt's Willow	Locally common at higher altitudes, e.g. Peyto Lake
<i>Salix bebbiana</i>	Bebb's Willow	Emerald Lake 2015
<i>Salix candida</i>	Hoary Willow	Emerald Lake 2015
<i>Salix exigua</i>	Sandbar Willow	Vaseux Lake
<i>Salix farriae</i>	Farr's Willow	Emerald Lake 2015
<i>Salix lucida</i> ssp. <i>lasiandra</i>	Shining Willow	Scattered records
<i>Salix reticulata</i>	Net-veined Willow	Wilcox Pass in the past
<i>Salix sitchensis</i>	Sitka Willow	Locally common
<i>Salix vestita</i>	Rock Willow	Scattered Rockies records
<i>Salix</i> spp.		Several other species present but not identified
<b><i>Santalaceae</i></b>		
<i>Comandra umbellata</i>	Pale Comandra	Bow Valley Provincial Park
<i>Geocaulon lividum</i>	Northern Bastard Toadflax	Emerald Lake and Paint Pots

### ***Saxifragaceae***

<i>Heuchera cylindrica</i>	Round-leaved Alumroot	Mt.Kobau, Mt.Baldy, and Day 5
<i>Heuchera glabra</i>	Smooth Alumroot	Whistler area in the past
<i>Heuchera micrantha</i>	Crevice Heuchera	Western BC
<i>Leptarrhena pyrolifolia</i>	Leather-leaved Saxifrage	Glacier NP
<i>Mitella breweri</i>	Brewer's Mitrewort	Glacier NP 2015
<i>Mitella nuda</i>	Bishop's Cap	Scattered Rockies records
<i>Mitella ovalis</i>	Oval-leaved Mitrewort	Mt.Baldy in the past
<i>Mitella pentandra</i>	Five-point Mitrewort	Banff in the past
<i>Mitella stauropetala</i>		Possibly this species on Mt.Kobau
<i>Lithophragma parviflorum</i>		Mt.Kobau
<i>Micranthes occidentalis</i>	Western Saxifrage	Wilcox Pass 2015
<i>Saxifraga aizoides</i>	Yellow Mountain Saxifrage	Locally in leaf in the Rockies
<i>Saxifraga bronchialis</i>	Spotted Saxifrage	Wilcox Pass, Sulphur Mountain etc.
<i>Saxifraga ferruginea</i>	Rusty Saxifrage	Nairn Falls, very variable in size
<i>Saxifraga lyallii</i>	Red-stemmed Saxifrage	Moraine Lake in the past
<i>Tellima grandiflora</i>	Fringe Cups	Scattered records
<i>Tiarella trifoliata</i>	Three-leaflet Coolwort	Widespread, e.g. Emerald Lake and in the Whistler area. Both varieties <i>trifoliata</i> and <i>unifoliata</i> seen

### ***Scrophulariaceae***

<i>Castilleja lutescens</i>	Yellow Paintbrush	
<i>Castilleja miniata</i>	Scarlet Paintbrush	Widespread and locally very common
<i>Castilleja occidentalis</i>	Western Yellow Paintbrush	Emerald Lake, Wilcox Pass, etc.
<i>Castilleja parviflora</i>	Small-flowered Paintbrush	Day 7, 2015
<i>Castilleja rhexifolia</i>	Alpine Paintbrush	Mt.Baldy etc.
<i>Castilleja thompsonii</i>	Thompson's Paintbrush	Mt.Kobau
<i>Collinsia parviflora</i>	Maiden Blue-eyed Mary	Mt.Baldy and Mt.Kobau
<i>Digitalis purpurea</i>	Foxglove	Roadsides in western BC
<i>Linaria dalmatica</i>	Dalmatian Toadflax	Okanagan
<i>Linaria vulgaris</i>	Common Toadflax	Day 7 2015
<i>Melampyrum lineare</i>	Cow-wheat	Shadow Lake 2015
<i>Mimulus guttatus</i>	Common Monkey Flower	A very few on Mt.Baldy
<i>Mimulus moschatus</i>	Musk Monkey Flower	Bow Valley Provincial Park in the past
<i>Orthocarpus tenuifolius</i>	Thin-leaved Owl Clover	Premier Lake in the past
<i>Pedicularis bracteosa</i>	Bracted Lousewort	Scattered Rockies records, mostly in leaf
<i>Pedicularis groenlandica</i>	Elephanthead	In bud at Grassi Lakes
<i>Pedicularis racemosa</i>	Sickle-top Lousewort	Shadow Lake
<i>Penstemon confertus</i>	Yellow Beardtongue	Widespread and locally common as at Mt.Kobau
<i>Penstemon davidsonii</i>	Creeping Penstemon	
<i>var.davidsonii</i>		Nairn Falls in the past
<i>var.menziesii</i>		Gone over at Cheakamus Lake
<i>Penstemon fruticosus</i>	Shrubby Penstemon	Fine on Mt.Kobau
<i>Penstemon procerus</i>	Small-flowered Penstemon	Mt.Kobau 2015
<i>Penstemon serrulatus</i>	Spreading Penstemon	Nairn Falls, Cheakamus Lake, etc.

<i>Verbascum thapsus</i>	Aaron's Rod	Scattered on roadsides
<i>Veronica americana</i>	American Brooklime	Okanagan
<i>Veronica serpyllifolia</i>	Thyme-leaved Speedwell	Scattered records
<i>Veronica wormskjoldii</i>	Alpine Speedwell	Mt.Baldy 2015

### ***Solanaceae***

<i>Solanum dulcamara</i>	Bittersweet	Okanagan
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### ***Urticaceae***

<i>Urtica dioica</i>	Stinging Nettle	Scattered records.
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### ***Valerianaceae***

<i>Valeriana sitchensis</i>	Sitka Valerian	Scattered records
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### ***Verbenaceae***

<i>Verbena bracteata</i>	Bracted Verbena	Probably this species in the Okanagan
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### ***Violaceae***

<i>Viola adunca</i>	Western Dog Violet	Scattered records, Mt.Kobau and Rockies
<i>Viola canadensis</i>	Western Canada Violet	Bow Valley and Emerald Lake
<i>Viola glabella</i>	Smooth Yellow Violet	Locally in western BC
<i>Viola orbiculata</i>	Round-leaved Violet	Glacier NP
<i>Viola renifolia</i>	Kidney-leaved Violet	Emerald Lake and elsewhere in the Rockies

## ***Monocotyledones***

### ***Araceae***

<i>Lysichiton americanus</i>	Yellow Skunk Cabbage	Locally dominant, Revelstoke and Whistler area
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### ***Cyperaceae***

More Cyperaceae were seen than are listed here, especially *Carex* spp. I have bought Volume 23 of the North American flora to better work with this family in the future!

<i>Carex albonigra</i>	Two-toned Sedge	Mt.Baldy 2015
<i>Carex aquatilis</i>	Water Sedge	Bow Valley Provincial Park etc.
<i>Carex capillaris</i>	Hair Sedge	Widespread, e.g. Emerald Lake
<i>Carex concinna</i>	Low Northern Sedge	Scattered Rockies records
<i>Carex crawfordii</i>	Crawford's Sedge	Revelstoke
<i>Carex lasiocarpa</i>	Woolly Sedge	Vaseux Lake 2015
<i>Carex lenticularis</i>	Lens-shaped Sedge	
<i>Carex limosa</i>	Mud Sedge	
<i>Carex macloviana</i>	Falkland Islands Sedge	Mt.Baldy 2015
<i>Carex magellanica</i> ssp. <i>irrigua</i>	Poor Sedge	This at Joffre Lakes 2015?
<i>Carex micropoda</i>		Sulphur Mountain 2015
<i>Carex obnupta</i>	Slough Sedge	
<i>Carex ovalis</i>	Oval Sedge	This at Joffre Lakes 2015?
<i>Carex pauciflora</i>	Few-flowered Sedge	Paint Pots 2015

<i>Carex pellita</i>		
<i>Carex pyrenaica</i>	Pyrenean Sedge	Sulphur Mountain 2015
<i>Carex rossii</i>	Ross' Sedge	Scattered records 2015
<i>Carex rostrata</i>	Beaked Sedge	Columbia Lake
<i>Carex scirpoidea</i>	Single Spike Sedge	Bow Valley PP and Emerald Lake
<i>Carex utriculata</i>	Beaked Sedge	
<i>Eleocharis palustris</i>	Creeping Spikerush	Emerald Lake etc.
<i>Eriophorum angustifolium</i>	Tall Cottongrass	Local
<i>Eriophorum chamissonis</i>	Russet Cottongrass	
<i>Eriophorum scheuchzeri</i>	White Cottongrass	Emerald Lake
<i>Rhynchospora alba</i>	White Beak Rush	
<i>Scirpus sylvaticus</i>	Small-flowered Bullrush	Scattered records
<i>Trichophorum caespitosum</i>	Tufted Club-rush	Numerous at Emerald Lake

### ***Iridaceae***

<i>Sisyrinchium montanum</i>	Blue-eyed Grass	Scattered Rockies records, e.g. several at Bow Vally PP
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### ***Juncaceae***

<i>Juncus ensifolius</i>	Dagger-leaved Rush	Joffre Lakes 2015
<i>Juncus filiformis</i>	Thread Rush	Bow Valley PP etc.
<i>Juncus mertensianus</i>	Mertens' Rush	Mt.Baldy 2015
<i>Juncus tenuis</i>	Slender Rush	Okanagan
<i>Juncus triglumis</i>	Three-flowered Rush	Paint Pots 2015
<i>Luzula multiflora</i>	Many-flowered Wood-rush	
<i>Luzula parviflora</i>	Small-flowered Wood-rush	Scattered records
Many other rushes were not identified		

### ***Lemnaceae***

<i>Lemna minor</i>	Common Duckweed	Okanagan ponds
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### ***Liliaceae***

<i>Allium cernuum</i>	Nodding Onion	Columbia Lake PP
<i>Calochortus apiculatus</i>	Three-spot Mariposa Lily	Common at Premier Lake in the past
<i>Calochortus macrocarpus</i>	Sagebrush Mariposa Lily	Some fine examples at two sites in the Okanagan
<i>Clintonia uniflora</i>	White Clintonia	Locally common in flower
<i>Disporum hookeri</i>	Hooker's Fairy Bell	
<i>Disporum trachycarpum</i>	Rough-fruited Fairybells	Emerald Lake
<i>Erythronium grandiflorum</i>	Yellow Fawn Lily	A fine display at Peyto Lake, and still just in flower Emerald Lake.
<i>Fritillaria lanceolata</i>	Chocolate Lily	Laurie Guichon Memorial Grasslands 2015
<i>Fritillaria pudica</i>	Yellow Bell	In fruit Mt.Kobau 2015
<i>Lilium columbianum</i>	Columbia Lily	Widespread in BC and locally numerous.
<i>Lilium philadelphicum</i>	Western Wood Lily	In fine flower east of Radium, in leaf at Bow Valley PP.
<i>Maianthemum dilatatum</i>	False Lily-of-the-Valley	Leaves and fruit in Whistler area and on Day 4

<i>Maianthemum racemosum</i>	False Solomon's Seal	Widespread and common. Also known as <i>Smilacina racemosa</i> .
<i>Maianthemum stellatum</i>	Star-flowered Solomon's Seal	Widespread and common. Also known as <i>Smilacina stellata</i> .
<i>Stenanthium occidentale</i>	Bronze Bells	A few records, in flower Mt.Kobau.
<i>Streptopus amplexifolius</i>	Large Twisted-stalk	Scattered records
<i>Streptopus lanceolatus</i>	Rosy Twisted-stalk	In fine flower Glacier NP, and western BC. Also known as <i>Streptopus roseus</i> .
<i>Tofieldia glutinosa</i>	Sticky False Asphodel	Scattered records, widespread.
<i>Tofieldia pusilla</i>	Dwarf False Asphodel	Scattered in the Rockies
<i>Veratrum viride</i>	Green False Helleborine	Scattered, mostly in leaf
<i>Zigadenus elegans</i>	Mountain Death Camas	Emerald Lake, Sulphur Mountain and Day 4.
<i>Zigadenus venenosus</i>	Death Camas	Bow Valley PP, and numerous on Mt.Kobau.
<b><i>Orchidaceae</i></b>		
<i>Amerorchis rotundifolia</i>	Round-leaved Orchid	Locally common, as at Bow Valley Provincial Park, and Emerald Lake. In fine flower. Seen on 3 days.
<i>Calypso bulbosa</i>	Calypso	Locally rather common in the Rockies, e.g. Emerald Lake.
<i>Coeloglossum viride</i>	Long-bracted Frog Orchid	Several Rockies sites, e.g. Bow Valley Provincial Park, Emerald Lake, Sulphur Mountain.
<i>Corallorhiza maculata</i>	Spotted Coralroot	Garibaldi and Beaver Lake road
<i>Corallorhiza mertensiana</i>	Western Coralroot	Several in western BC, seen on 3 days
<i>Corallorhiza striata</i>	Striped Coralroot	Some fine examples on 2 days in the Rockies.
<i>Corallorhiza trifida</i>	Yellow Coralroot	Found at several sites in the Rockies, including Storm Mt.Lodge.
<i>Cypripedium montanum</i>	Mountain Lady's Slipper	A fine addition to the list in 2015, near Radium, several in fine flower.
<i>Cypripedium parviflorum</i>	Yellow Lady's Slipper	Fine at Bow Valley Provincial Park, and Emerald Lake, etc. Seen on 5 days.
<i>Cypripedium passerinum</i>	Sparrow's-egg Lady's Slipper	In bud these year, at Grassi Lakes.
<i>Goodyera oblongifolia</i>	Rattlesnake Orchid	Common in leaf or bud at various BC Sites, also Peyto Lake
<i>Listera borealis</i>	Northern Twayblade	Grassi Lakes
<i>Listera caurina</i>	Northwestern Twayblade	A few at one site in Garibaldi Provincial Park, and Day 3
<i>Listera convallarioides</i>	Broad-leaved Twayblade	Garibaldi PP 2015
<i>Listera cordata</i>	Heartleaf Twayblade	Emerald Lake, elsewhere in the Rockies, and Cheakamus Lake
<i>Platanthera hyperborea</i>	Northern Green Bog Orchid	Scattered records
<i>Platanthera dilatata</i>	Tall White Bog Orchid	Locally common in BC, seen on 4 days
<i>Platanthera obtusata</i>	Blunt-leaved Bog Orchid	Emerald Lake etc.
<i>Platanthera orbiculata</i>	Round-leaved Rein Orchid	Garibaldi PP 2015

<i>Platanthera saccata</i>	Slender Bog Orchid	Locally very common, Mt.Baldy and Whistler area.
<i>Platanthera unalascensis</i>	Alaska Rein Orchid	Emerald Lake and Mt.Kobau 2015

### ***Poaceae***

<i>Agropyron cristatum</i>	Crested Wheatgrass	Scattered
<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	Scattered
<i>Bromus anomalus</i>	Nodding Brome	
<i>Bromus ciliatus</i>	Fringed Brome	
<i>Bromus tectorum</i>	Cheatgrass	Widespread
<i>Calamagrostis canadensis</i>	Blue-joint Reed Grass	BC
<i>Dactylis glomerata</i>	Cock's-foot	Widespread
<i>Festuca idahoensis</i>	Idaho Fescue	Mt.Kobau
<i>Hierochloe odorata</i>	Common Sweetgrass	Banff
<i>Koeleria macrantha</i>	Junegrass	Widespread
<i>Lolium perenne</i>	Perennial Rye-grass	Scattered
<i>Phalaris arundinacea</i>	Reed Canary Grass	Okanagan
<i>Phleum alpinum</i>	Alpine Timothy	Mt.Baldy
<i>Phragmites australis</i>	Common Reed	Locally dominant
<i>Poa alpina</i>	Alpine Meadow-grass	Scattered records
<i>Poa annua</i>	Annual Meadow-grass	Widespread
<i>Poa pratensis</i>	Kentucky Bluegrass	Widespread
<i>Pseudoroegneria spicata</i>	Broad-glumed Wheatgrass	Southern BC
<i>Stipa comata</i>	Needle-and-thread Grass	Columbia Lake PP 2015

Very many other grasses were present but not identified. Something for future visits!

### ***Potamogetonaceae***

<i>Potamogeton</i> sp.	Pondweed sp.	Vaseux Lake
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### ***Scheuchzeriaceae***

<i>Scheuchzeria palustris</i> ssp.americana		Paint Pots
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### ***Typhaceae***

<i>Typha latifolia</i>	Bulrush	Locally dominant
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## Systematic List Number 2      Butterflies

The nomenclature generally follows 'The Butterflies of Canada' by Layberry, Hall and Lafontaine, NRC Research Press 1998.

### *Papilionidae*

Old World Swallowtail	<i>Papilio machaon</i>	Scattered records
Anise Swallowtail	<i>Papilio zelicaon</i>	Scattered records, e.g. Emerald Lake, Cheakamus Lake
Canadian Tiger Swallowtail	<i>Papilio canadensis</i>	Widespread and locally common, e.g. Columbia Lake and Cheakamus Lake
Western Tiger Swallowtail	<i>Papilio rutulus</i>	Okanagan
Two-tailed Swallowtail	<i>Papilio multicaudatus</i>	Columbia Lake PP
Pale Swallowtail	<i>Papilio eurymedon</i>	Scattered records, e.g. Nairn Falls
Rocky Mountain Parnassian	<i>Parnassius smintheus</i>	Pemberton area

### *Pieridae*

Small White	<i>Pieris rapae</i>	Scattered records
Queen Alexandra's Sulphur	<i>Colias alexandra</i>	Bow Valley PP
Pink-edged Sulphur	<i>Colias interior</i>	Columbia Lake PP

### *Lycaenidae*

Blue Copper	<i>Lycaena heteronea</i>	A few low on Mt.Kobau, a superb butterfly
Barry's Hairstreak	<i>Callophrys barryi</i>	Several at Columbia Lake PP
Brown Elfin	<i>Callophrys augustinus</i>	Columbia Lake PP
Hoary Elfin	<i>Callophrys polia</i>	Several at Bow Valley PP
Western Tailed-blue	<i>Everes amyntula</i>	Columbia Lake PP
Spring Azure	<i>Celastrina ladon</i>	Scattered records, e.g. Bow Valley
Western Square-dotted Blue	<i>Euphilotes battoides</i>	A few at Laurie Guichon Memorial Grasslands
Arrowhead Blue	<i>Glaucopsyche piasus</i>	Laurie Guichon Memorial Grasslands
Silvery Blue	<i>Glaucopsyche lygdamus</i>	Widespread and common, e.g. numerous at Bow Valley PP
Glandon Blue (Arctic Blue)	<i>Agriades glandon</i>	Sulphur Mountain
Idas Blue (Northern Blue)	<i>Lycaeides idas</i>	A few records
Greenish Blue	<i>Plebejus saepiolus</i>	Scattered records
Boisduval's Blue	<i>Icaricia icarioides</i>	A few records

### *Nymphalidae*

White Admiral	<i>Limnitis arthemis</i>	Columbia Lake PP
Lorquin's Admiral	<i>Limnitis lorquini</i>	Widespread in small numbers
California Tortoiseshell	<i>Nymphalis californica</i>	Near Pemberton
Camberwell Beauty (Mourning Cloak)	<i>Nymphalis antiopa</i>	Columbia Lake and Cheakamus Lake
Milbert's Tortoiseshell	<i>Nymphalis milberti</i>	Singletons at Bow Valley and Emerald Lake
Red Admiral	<i>Vanessa atalanta</i>	Scattered records
Painted Lady	<i>Vanessa cardui</i>	Scattered records

Satyr Comma	<i>Polygonia satyrus</i>	Widespread in small numbers, seen in all areas
Hoary Comma	<i>Polygonia gracilis</i>	Seen in Whistler area
Pacific Fritillary	<i>Boloria epithore</i>	1 along Cheakamus Lake Trail
Arctic Fritillary	<i>Boloria chariclea</i>	Bow Valley PP
Northern Checkerspot	<i>Chlosyne palla</i>	Scattered records, e.g. Columbia Lake
Northern Crescent	<i>Phyciodes cocyta</i>	Widespread and locally common, Bow Valley PP
Field Crescent	<i>Phyciodes pratensis</i>	Widespread and very common
Pale Crescent	<i>Phyciodes pallidus</i>	A few in the Okanagan
Variable Checkerspot	<i>Euphydryas chalcedona</i>	Columbia Lake etc.
Edith's Checkerspot	<i>Euphydryas editha</i>	Sulphur Mountain and Mt.Kobau

### ***Satyridae***

Large Heath (Common Ringlet)	<i>Coenonympha tullia</i>	Mt..Kobau and Columbia Lake PP
Common Alpine	<i>Erebia epipsodea</i>	Several in Bow Valley Provincial Park, etc., scattered Rockies records
Macoun's Arctic	<i>Oeneis macounii</i>	Sulphur Mountain
Chryxus Arctic	<i>Oeneis chryxus</i>	Wilcox Pass

### ***Hesperiidae***

Dreamy Dusky Wing	<i>Erynnis icelus</i>	
Persius Dusky Wing	<i>Erynnis persius</i>	
Grizzled Skipper (Northern Grizzled Skipper)	<i>Pyrgus centaureae</i>	Columbia Lake PP
Arctic Skipper (Chequered Skipper)	<i>Carterocephalus palaemon</i>	Bow Valley PP etc.
Tawny-edged Skipper	<i>Polites thermistocles</i>	Seen in BC

## Systematic List Number 3      Amphibians and Reptiles

The nomenclature is taken from 'A Field Guide to Western Amphibians and Reptiles' by Robert C. Stebbins, and 'Reptiles of the Northwest' by Alan St. John.

Western Toad	<i>Bufo boreas</i>	1 at Emerald Lake
Wood Frog	<i>Rana sylvatica</i>	Bow Valley PP and Joffre Lakes
Spotted Frog	<i>Rana pretiosa</i>	Revelstoke
Painted Turtle (Terrapin!)	<i>Chrysemys picta</i>	Seen on previous tours
Western Yellow-bellied Racer	<i>Coluber constrictor</i>	Mt. Kobau
Gopher Snake	<i>Pituophis catanifer</i>	Seen on previous tours
Western Terrestrial Garter Snake	<i>Thamnophis elegans ssp. vagrans</i>	Wandering Garter Snake. 2 at Laurie Guichon Memorial Grasslands.

## Systematic List Number 4      Mammals

Pika	<i>Ochotona princeps</i>	1 seen very closely, and watched for some time, on Sulphur Mountain
Snowshoe Hare	<i>Lepus americanus</i>	Seen daily around Storm Mt. Lodge, where very tame, on our previous visits, remarkably not seen there at all in 2015
Least Chipmunk	<i>Eutamias minimus</i>	A few Rockies records
Yellow-pine Chipmunk	<i>Eutamias amoenus</i>	Scattered records in BC
Golden-mantled Ground Squirrel	<i>Citellus lateralis</i>	Daily at Storm Mt. Lodge, where very tame, and a few records elsewhere.
Columbian Ground Squirrel	<i>Spermophilus columbianus</i>	Widespread in the Rockies
Douglas Squirrel	<i>Tamiasciurus douglasi</i>	
Red Squirrel	<i>Tamiasciurus hudsonicus</i>	Several records from the Rockies, and in BC
Yellow-bellied Marmot	<i>Marmota flaviventris</i>	Okanagan
Hoary Marmot	<i>Marmota caligata</i>	10+ seen very closely on Sulphur Mountain
Beaver	<i>Castor canadensis</i>	Much evidence, dams, lodges, knawed trees etc.
Southern Red-backed Vole	<i>Clethrionomys gapperi</i>	1 of probably this species at Bow Valley PP
Jumping Mouse sp.	<i>Zapus</i> sp.	One of these characterful animals jumping in grass at Laurie Guichon Memorial Grasslands. Impossible to identify to species from what we saw, the ranges of three species overlap in the area.
Red Fox	<i>Vulpes vulpes</i>	Seen in the Rockies (RK)
Black Bear	<i>Ursus americanus</i>	2 black phase and 1 cinnamon phase along Icefields Parkway, and 2 black phase in Kootenay PP.
Grizzly Bear	<i>Ursus arctos</i>	Very recent sign in Banff where notices warned of its presence in the area, and a ranger was on site, but sadly we didn't see it!
Marten	<i>Martes americana</i>	1 on Sulphur Mountain
Mink	<i>Mustela vison</i>	1 in the Rockies (RK)
Mule Deer	<i>Odocoileus hemionis</i>	Scattered records
White-tailed Deer	<i>Odocoileus virginianus</i>	Scattered records in the Rockies
Mountain Goat	<i>Oreamnos americanus</i>	Very close views of 5 animals in Kootenay PP
Bighorn Sheep	<i>Ovis canadensis</i>	Seen on 2 days in the Rockies with a maximum of 14. Also 2 females with young near Vaseux Lake. Some very close views.

## Systematic List Number 5      Birds

The systematic order and nomenclature generally follow ‘The Sibley Guide to Birds’ By David Sibley, National Audubon Society, 2000.

Common Loon	<i>Gavia immer</i>	Seen on five days.
Pied-billed Grebe	<i>Podylimbus podiceps</i>	Laurie Guichon Memorial Grasslands.
Great Blue Heron	<i>Ardea herodias</i>	Columbia Lake PP.
Canada Goose	<i>Branta canadensis</i>	Widespread and reasonably common.
Mallard	<i>Anas platyrhynchos</i>	Scattered records.
Green-winged Teal	<i>Anas crecca</i>	A few records.
Blue-winged Teal	<i>Anas discors</i>	Columbia Lake.
Ruddy Duck	<i>Oxyura jamaicensis</i>	Laurie Guichon Memorial Grasslands.
Redhead	<i>Aythya americana</i>	A pair on Vaseux Lake.
Ring-necked Duck	<i>Aythya collaris</i>	Vaseux Lake.
Lesser Scaup	<i>Aythya affinis</i>	Alberta.
Harlequin	<i>Histrionicus histrionicus</i>	A pair at Moraine Lake.
Red-breasted Merganser	<i>Mergus merganser</i>	A female with 17 young on Cheakamus Lake.
Turkey Vulture	<i>Cathartes aura</i>	Scattered BC sightings.
Red-tailed Hawk	<i>Buteo jamaicensis</i>	Scattered records.
Swainson’s Hawk	<i>Buteo swainsonii</i>	A few in the Calgary area.
Golden Eagle	<i>Aquila chrysaetos</i>	1 over Wilcox Pass.
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Scattered BC records, seen on 4 days.
Osprey	<i>Pandion haliaetus</i>	Widespread, with several nests seen.
American Kestrel	<i>Falco sparverius</i>	Scattered records.
California Quail	<i>Callipepla californica</i>	Commonly naturalised in the Okanagan.
Killdeer	<i>Charadrius vociferus</i>	Bow Valley PP.
Spotted Sandpiper	<i>Actitis macularia</i>	Bow Valley PP.
Glaucous-winged Gull	<i>Larus glaucescens</i>	Vancouver.
Herring Gull	<i>Larus argentatus</i>	Vancouver.
Rock Dove	<i>Columba livia</i>	Scattered records.
Mourning Dove	<i>Zenaida macroura</i>	Okanagan.
Vaux’s Swift	<i>Chaetura vauxi</i>	Scattered records.
White-throated Swift	<i>Aeronautes saxatilis</i>	Okanagan.
Calliope Hummingbird	<i>Stellula calliope</i>	Scattered records.
Rufous Hummingbird	<i>Selasphorus rufus</i>	Scattered records, daily at Storm Mt.Lodge.
Lewis’s Woodpecker	<i>Melanerpes lewis</i>	1 near Vaseux Lake.
Northern Flicker	<i>Colaptes auratus</i>	Widespread and reasonably common.
Hairy Woodpecker	<i>Picoides villosus</i>	A pair at Cheakamus Lake.
Pileated Woodpecker	<i>Dryocopus pileatus</i>	Seen on 2 days.
Red-breasted Sapsucker	<i>Sphyrapicus ruber</i>	Western BC.
Red-naped Sapsucker	<i>Sphyrapicus nuchalis</i>	Laurie Guichon Memorial Grasslands.
Western Wood-Pewee	<i>Contopus sordidulus</i>	Day 10.
Eastern Kingbird	<i>Tyrannus tyrannus</i>	Okanagan.
Western Kingbird	<i>Tyrannus verticalis</i>	Okanagan.
Willow Flycatcher	<i>Empidonax traillii</i>	Columbia Lake PP.

Steller's Jay	<i>Cyanocitta stelleri</i>	Western BC.
Gray Jay	<i>Perisoreus canadensis</i>	Scattered records.
Clark's Nutcracker	<i>Nucifraga columbiana</i>	Peyto Lake.
American Magpie	<i>Pica hudsonia</i>	Widespread.
American Crow	<i>Corvus brachyrhynchos</i>	Widespread and common.
Northwestern Crow	<i>Corvus caurinus</i>	Vancouver.
Raven	<i>Corvus corax</i>	Widespread and common.
Tree Swallow	<i>Tachycineta bicolor</i>	Widespread.
Violet-green Swallow	<i>Tachycineta thalassina</i>	Emerald Lake.
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	Scattered records.
Barn Swallow	<i>Hirundo rustica</i>	Widespread.
Black-capped Chickadee	<i>Poecile atricapilla</i>	Okanagan.
Chestnut-backed Chickadee	<i>Poecile rufescens</i>	Cheakamus Lake.
Red-breasted Nuthatch	<i>Sitta canadensis</i>	Widespread in small numbers. Heard often, occasionally seen.
Winter Wren	<i>Troglodytes troglodytes</i>	Widespread in BC.
Marsh Wren	<i>Cistothorus palustris</i>	Laurie Guichon Memorial Grasslands.
Ruby-crowned Kinglet	<i>Regulus calendula</i>	Scattered records.
Townsend's Solitaire	<i>Myadestes townsendi</i>	Sulphur Mountain.
Western Bluebird	<i>Sialia mexicana</i>	Okanagan.
Mountain Bluebird	<i>Sialia currucoides</i>	Scattered records.
American Robin	<i>Turdus migratorius</i>	Widespread and very common. 14/15
Swainson's Thrush	<i>Catharus undulatus</i>	Scattered records.
Hermit Thrush	<i>Catharus guttatus</i>	Day 7.
Gray Catbird	<i>Dumetella carolinensis</i>	Okanagan.
Starling	<i>Sturnus vulgaris</i>	Widespread at lower altitudes.
Cape May Warbler	<i>Dendroica tigrina</i>	A fine male at Bow Valley PP.
Yellow-rumped Warbler	<i>Dendroica coronata</i>	Scattered records.
Yellow Warbler	<i>Dendroica petechia</i>	Bow Valley PP.
MacGillivray's Warbler	<i>Oporornis tolmiei</i>	Rockies.
Common Yellowthroat	<i>Geothlypis trichas</i>	Shadow Lake.
Black-headed Grosbeak	<i>Pheucticus melanocephalus</i>	Mt.Kobau.
Lazuli Bunting	<i>Passerina amoena</i>	Vaseux Lake.
Chipping Sparrow	<i>Spizella passerina</i>	Widespread and reasonably common.
Brewer's Sparrow	<i>Spizella breweri</i>	Mt.Kobau, and locally in the Rockies.
Savannah Sparrow	<i>Passerculus sandwichensis</i>	Emerald Lake.
Song Sparrow	<i>Melospiza melodia</i>	Scattered records.
Lincoln's Sparrow	<i>Melospiza lincolnii</i>	Mt.Kobau and Emerald Lake.
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	Scattered records.
Dark-eyed Junco	<i>Junco hyemalis</i>	Common and widespread.
Lark Sparrow	<i>Chondestes grammacus</i>	Beaver Lake road.
Western Meadowlark	<i>Sturnella neglecta</i>	A few in the Okanagan.
Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>	Recorded.
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	Only Okanagan and Bow Valley.
Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	Scattered records.
Brown-headed Cowbird	<i>Molothrus ater</i>	A few BC records.
Red Crossbill	<i>Loxia curvirostra</i>	A male on Mt.Baldy.

House Finch  
Cassin's Finch  
Pine Siskin  
House Sparrow

*Carpodacus mexicanus*  
*Carpodacus cassinii*  
*Carduelis pinus*  
*Passer domesticus*

Okanagan.  
A few records.  
Scattered records.  
Scattered records.