

APPENDIX II.

LABEL CONTENTS FOR RARE STATUS SPECIMENS*
IN THE KOOTENAY NP HERBARIA

(as of January 1997)

* based on B.C. CDC rare vascular tracking lists for Kootenay Lake Forest District (#57), Invermere Forest District (#52), and the Provincial tracking list for rare plants; all dated June 10, 1996 (see attached). Note that status may change at any time after this date. Parks should obtain updates from the CDC at least once a year, and alter their checklists accordingly.

W.O. HERBARIUM (Radium Hot Springs)***Astragalus bourgovii***

Near Split Peak, Kootenay NP. 11 UNG 72 42.
Lower subalpine zone: 1910 m asl. Bare rock glacier.
[specimen in bud and flower]
Coll/ID: Matt Fairbarns
Stet!: J.L. Penny B.C. C.D.C. Mar 1, 1996

July 12/82

Botrychium hesperium

Mount Wardle area, Kootenay NP. 11 UNG 714 444.
Montane zone: 1320 m asl. Closed forest: *Pinus contorta-Pseudotsuga menziesii/Symphoricarpos albus-Linnaea borealis/Pleurozium schreberi*.
Mesic to subxeric; till veneer over inclined rock. lithic Eluviated Eutric Brunisol.
Coll: H. Dudynsky #027
ID: Matt Fairbarns as *B. matricariaefolium* var. *matricariaefolium*
Reverified: Adolf Cithe (sp.?) Aug 2/96 "*B. matricariaefolium* most probably *B. hesperium*"

June 14/82

Calamagrostis montanensis

Mount Shanks, Kootenay NP. 11 UNG 747 483.
Montane zone: 1330 m asl. Open forest: *Picea glauca/Linnaea borealis-Aster conspicuus-Oryzopsis asperifolia/feathermoss*.
Mesic; aeolian veneer on till blanket on inclined rock. Orthic Eutric Brunisol.
Coll: H. Dudynsky plot#1010 ID: Matt Fairbarns
Stet!: J.L. Penny B.C. C.D.C. Jan 1996

July 10/81

Carex crawei

Cross River Fire Road, Kootenay NP.
Montane zone. Shaded roadside.
Coll: H. Dudynsky ID: Matt Fairbarns
Stet!: J. Penny B.C. C.D.C. Jan 1996

July 21/81

Carex scoparia

Tumbling Creek, Kootenay NP. 11 UNG 564 684.
Lower Subalpine zone: 1560 m asl. Closed forest: *Picea engelmannii-Abies lasiocarpa/Menziesia glabella-Vaccinium membranaceum/Gymnocarpium dryopteris-Cornus canadensis/Pleurozium schreberi-Barbilophozia lycopodioides*.
Subhygric; hummocky ice contact deposits. turbic, Eluviated Dystric Brunisol.
Coll/ID: Matt Fairbarns plot #2092
Stet!: J. Penny B.C. C.D.C. Jan 1996

Aug 22/82

Draba porsildii

Above Nixon Creek, Kootenay NP.
Alpine zone: 2520 m asl. Alpine tundra.
Coll: P. Achuff #4485 ID: G. Mulligan

July 9/82

Erigeron lanatus

Floe Pass, Kootenay NP. 11 UNG 605 611.
Alpine zone: 2480 m asl. Open mat: *Dryas octopetala-Oxytropis podocarpa*.
40% SW slope, mesic, imperfectly drained. Colluvium blanket on inclined rock,
soliflucted. Orthic Regosol. [specimen in flower]
Coll: H. Dudynsky #HD 2096 ID: Matt Fairbarns July 26/82
Stet!: G.W. Douglas B.C. C.D.C. 1995

Helenium autumnale* var. *grandiflorum

Near Wardle Fire Tower, Kootenay NP.
Lower Subalpine zone. [specimen in flower]
Coll: H. Dudynsky #382 ID: Matt Fairbarns July 26/81
Stet!: G.W. Douglas B.C. C.D.C. 1995

Melica smithii

Near Floe Lake, Kootenay NP. 11 UNG 621 563.
Lower subalpine zone: 1590 m asl. Open forest: *Picea engelmannii-Abies*
lasiocarpa/Menziesia glabella-Rhododendron albiflorum-Vaccinium
membranaceum/Rubus acaulis/moss.
Mesic; channeled fluvial fan. Orthic Eutric Brunisol.
Coll: H. Dudynsky plot #2075 ID: Matt Fairbarns July 13/82
Stet!: J.L. Penny B.C. C.D.C. Jan 1996

Pedicularis contorta

Helmet Cabin area, Kootenay NP. 11 UNG 48 73.
Upper subalpine zone: 2190 m asl. Open heath (total cover = 45%): *Cassiope*
mertensiana-Phyllodoce empetriformis.
Mesic; aeolian veneer on hummocky till, failed. Orthic Eutric Brunisol.
[specimen in flower]
Coll/ID: Matt Fairbarns July 25/82
Stet!: J.L. Penny B.C. C.D.C. Jan 1996

Physaria didymocarpa

Stoddart Creek, Kootenay NP. 11 UNG 695 026.
Montane zone: 1050 m asl. *Agropyron spicatum* grassland.
55% SW slope, xeric, rapidly drained. Colluvium veneer on residuum veneer on inclined
rock. Orthic Regosol. [specimen in fruit]
Coll: B. Berteau #BB 1004 ID: Matt Fairbarns June 28/81
Stet!: J.L. Penny B.C. C.D.C. Mar 1, 1996

Platanthera dilatata

Whitetail Creek, Kootenay NP.
Montane zone.
[specimen in flower]
Coll: P. Achuff #4019 ID: Matt Fairbarns July 12/81
Stet!: J.L. Penny B.C. C.D.C. Mar 1, 1996

Pyrola elliptica

Lower Meadow Creek, Kootenay NP. 11 UNG 794 158
Montane zone. Closed forest: *Picea hybrid-Betula papyrifera/Shepherdia canadensis-*
Ledum groenlandicum/Vaccinium membranaceum-Cornus canadensis-Linnaea
borealis/Hylocomium splendens-Pleurozium schreberi.
1250 m asl. 35% NE slope, mesic, moderately well drained.
Aeolian veneer on till blanket on inclined rock. Eluviated Eutric Brunisol.
[specimen in fruit]
Coll/ID: B. Berteau Plot#1018 July 22/81

Stet!: J.L. Penny B.C. C.D.C. 1996

Townsendia hookeri

Stoddart Creek, Kootenay NP.

Montane zone. Open forest: *Pseudotsuga menziesii*-*Pinus ponderosa*/*Juniperus scopulorum*/*Agropyron spicatum*.

[specimen in fruit]

Coll/ID: P. Achuff PLA #4419

May 30/82

The following species were also noted as occurring in the W.O. herbarium, and are considered rare. Specimens should be pulled from the herbarium and sent to the B.C. C.D.C. in Victoria for further identification/verification:

Family Apiaceae (= Umbelliferae)

Cicuta maculata (has a rare var. *maculata*)

Family Caryophyllaceae

Minuartia austromontana = *Arenaria rossii*

Family Onagraceae

Epilobium ciliatum (has a rare subsp. *watsonii*)

Epilobium hornemannii (has a rare subsp. *behringianum*)

Family Rubiaceae

Galium trifidum (has a rare subsp. *trifidum*)

NIPIKA HERBARIUM (Nipika Interpretative Services Bldg.)

Astragalus bourgovii

Mt. Wardle main range, Kootenay NP.
N-facing ridge. Very dry, windy rocky slope. Scree. 8000 ft. asl.
Very low, quite common. [specimen in bud and flower]
Coll/ID: B. Golberg #372 (or #88) as *A. alpinus*?
Redetermined: Ian D. Macdonald May 1996

July 7/68

Carex xerantica

Main Ridge, Mt. Wardle, Kootenay NP.
Dry shale scree. SW slope. 8400 feet asl.
Tufted.
Coll/ID: B. Golberg #553 as *Carex*
Determined: Ian D. Macdonald August 1996

Sept 12/68

Carex cf. xerantica

Mt. Wardle (Goat #1), Kootenay NP.
Sandy-fairly dry between rocks. Open SW slope. 6300 feet asl.
"Extensive, highly matted. Goats eat this."
Coll/ID: B. Golberg #345 as *Carex*
Determined: Ian D. Macdonald August 1996 "immature" specimen

June 26/68

Erigeron lanatus

Kootenay NP. Twp. 24-Rg. 16-Sect. 26. Barren.
[specimen in flower]
Coll/ID: K.E. Seel #177
Stet!: G.W. Douglas B.C. C.D.C. 1995

July 20/61

Minuartia biflora

Main Ridge, Mt. Wardle, Kootenay NP.
Moist spots under rocks in rocky tundra (shale scree). 8400 feet asl.
Coll/ID: Golberg #562 as *Arenaria sajanensis*
Determinavit: J. Penny B.C. C.D.C. Mar 1/1996

Sept 12/68

Pedicularis contorta

(3 specimen records were input onto dBase file and sent to B.C. CDC December 1995)

Physaria didymocarpa

Kootenay NP.
[specimen in flower and fruit]
Coll: Sharon Morgan Det: P. Achuff/H. Dudynsky Mar/82
Stet!: J.L. Penny B.C. C.D.C. Mar 1, 1996

no date, 1981

Senecio integerrimus var. ochroleucus

Near Quarry below Mt. Wardle, Kootenay NP.
Very moist flat floor of spruce forest near stream. 3950 feet asl.
Coll/ID: Golberg #485 as *Senecio integerrimus*
Redetermined: K. Wilkinson May 10/1996

July 21/68

Townsendia exscapa

Near Redstreak Campground, Kootenay NP.
Twp. 19-Rg. 15-Sect. 19. Open woodlot.
[specimen in late flowering stage]
Coll/ID: K.E. Seel #211 as *Erigeron ochroleucus*?
Redetermined: Ian D. Macdonald May 1996

May 13/62

Trichophorum pumilum

Bank of Vermilion River below Mt. Wardle, Kootenay NP.

Moist sand/clay. Open spruce/alder flat. 3950 feet asl.

Common.

Coll: B. Golberg #321 as *Carex*

Determined: Ian D. Macdonald May 1996 "*T. p.* = *Scirpus pumilis*"

June 18/68