

Enhancements #3 (included in 4th Printing)		
Pg.	Entry	Change
21	Aquatics 10a Bacopa	change "6-10 mm" to "(5)6-10 mm"
24	Group 4 05b	change "3-20" to "3-20(40)"
36	Group 8 09a Brassicaceae	change "4 petals attached at the base of the ovary" to "4 separate petals attached at the base of the ovary and not bent back/down"
36	Group 8 09a Brassicaceae	add "; leaves various but not divided into 3 leaflets"
36	Group 8 09b	add "; leaves sometimes divided into 3 leaflets"
40	Group 8 44a	change text to "44a Floral cup (hypanthium) present . . 45"
40	Group 8 44a	add illus of hypanthium cross-sections
40	Group 8 44b	change text "44b Floral cup absent . . 46"
40	Group 8 44b	add illus of cross-sections with no hypanthium
40	Group 8 46a/46b	add a new couplet "46a Leaves divided into 3 heart-shaped, 1-2 cm long leaflets at the tip of a slender, 2-8 cm stalk . . . Oxalidaceae - Oxalis stricta ^x 46b Plants not as above . . . Ranunculaceae (in part) (p. 65)"
41	Group 9 04b	change "not Spurred at the base" to "not as above"
41	Group 9 08a	change "strongly bilaterally symmetric," to "bilaterally symmetric (often weakly so in Veronica, p. 264)"
42	Group 9 11a	delete "(sometimes opposite below, alternate above)"
42	Group 9 11b	change "Leaves opposite" to "Leaves mostly opposite (upper sometimes alternate)"
42	Group 9 15a	change "Calyces" to "Calyces tubular and"
42	Group 9 15b	change "Calyces not or weakly 5-angled" to "Calyces not as above (sometimes weakly angled)"
42	Group 9 17a/17b to end	renumber couplets and illustrations after new couplet 16a/16b
44	Group 9 29a (new 30a)	change "Calyces" to "Calyces tubular and"
44	Group 9 29b (new 30b)	change "Calyces not or weakly 5-angled" to "Calyces not as above"
46	Lycopodiaceae 02a Lycopodiella inundata	change "Spore-bearing cones erect, on stalks with closely spaced, normal-sized leaves" to "Spore-bearing cones erect, poorly defined, looking like thickened stems"
46	Lycopodiaceae 02b	add "Cones well defined" to parallel 2a
47	Diphasiastrum 02a sitchense	add "cones 1-3 at branch tips; "
47	Diphasiastrum 02b alpinum	add "cones usually single at branch tips; "
70	Clematis 01b	add "(rarely white)" to flower description
70	Clematis 02a occidentalis	add "(rarely white)" to flower description
72	Ranunculus 07a	change "(not lobed)" to "(rarely all lobed)"
73	Ranunculus 20a	change "edges;" to "edges, borne in oblong to cone-shaped heads;"
73	Ranunculus 20b	change "edges;" to "edges, borne in ± spherical heads;"
75	Berberdaceae 01a Mahonia repens	add "stems unarmed"
75	Berberdaceae 01b Berberis vulgaris	add "branches with spines at the nodes"
77	Urtica 01b dioica	add "Urtica gracilis ssp. gracilis" as a synonym and index; change to this name in the 2nd Edition
90	Montia 01a linearis	add "in bud" after "flowers nodding"
97	01a Silene	after "Stigmas 5 (rarely 4)" add "or absent (in ♂ flowers)"

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102	Polygonaceae 01b	change "4-5" to "4-6"
154	Lepidium 07b	delete "winged and notched at tip"
155	Physaria 01b	reword as "leaves mostly lance-shaped and <1 cm wide, but outer/lower blades sometimes egg-shaped to round"
155	Physaria 03a arctica	add "basal leaves all similar, with egg- to lance-shaped blades (1)2-6(15) cm long; "
155	Physaria 03b spatulata	add "upper basal leaves spatula- to lance-shaped, outer/lower leaves lance-shaped to round, 1.5-4 cm long"; add new illustration
155	Physaria 03b spatulata	replace LK illustration with H&C illustration
168	Androsace 01a chamaejasme	add "ssp. lehmanniana" here and index
186	Crataegus 10b chrysoarpa	add Crataegus rotundifolia as a synonym
187	Fragaria 01a vesca	delete "upper leaf surfaces silky hair"
187	Fragaria 01b virginiana	delete "upper leaf surfaces hairless"
196	Rubus 05a pubescens	add "flowers 1-4"
196	Rubus 05b arcticus	add "flowers single"
203	Astragalus 10a canadensis	change "Flowers" to "Mature flowers"
203	Astragalus 10b americanus	change "Flowers" to "Mature flowers"
212	Trifolium 03a pratense	add "leaflets sparsely hairy"
212	Trifolium 03b	add "leaflets hairless"
212	Vicia 01a cracca	add "stipules smooth-edged or toothed, 7-15 mm long"
212	Vicia 01b americana	add "stipules deeply toothed, 2-8(10) mm long"
225	Impatiens 02b noli-tangere	change "flecked" to "unspotted or flecked"
259	Plantaginaceae 03a	change to "Leaves mostly basal; stem leaves (when present) alternate and relatively small"
259	Plantaginaceae 04a Plantago	add "flowering stems leafless"
259	Plantaginaceae 04b Veronica wyomingensis	add "flowering stems leafy"
259	Plantaginaceae 05b	change "not spurred" to "not as above"
259	Plantaginaceae 07a Nuttallanthus	change "1-several" to "1-13(30)"; change "2-9 mm spur" to "4.5-11 mm spur"
259	Plantaginaceae 07b Chaenorhinum	change "5-7" to "6-9"; change "1.5-2" to "1-2.3"; change "≈10 stalks" to "5-20 mm stalks"
260	Callitriche 01a palustris	change "pollen colored" to "pollen yellow"
260	Callitriche 02b hermaphroditica	change "wing width ≥ the seed width" to "wing 0.2-0.8 mm wide, ≥ the seed width"
260	Plantaginaceae 09b	change "stamens 4-5" to "stamens 2-4"; change "corollas various" to "corollas various but neither 2-lipped nor tubular when there are 2 stamens"
260	Plantaginaceae 10b	delete "numerous"
260	Plantaginaceae 11b Collinsia parviflora	change "with a white to blue upper lip and a blue lower lip" to "blue to white, typically with a dark lower lip and pale upper lip"
261	Hippuris 01a montana	change "<1 mm" to "±1 mm"; change "mostly 0.2-0.5" to "0.2-0.5"; change "flowers mostly" to "flowers"
261	Hippuris 01b vulgaris	change "(1.5)3-5(7)" to "(2)3-5"; change "flowers mostly" to "flowers"
261	Linaria 01a dalmatica	change "seeds" to "seeds 3- to 4-sided,"
261	Linaria 01b vulgaris	change "seeds" to "seeds disc-shaped to ± spherical,"
262	Penstemon 02a lyallii	change "leaves" to "leaves 8-13 pairs"; change ">6 cm long" to ">6 cm long"; add "; staminodes without hairs"

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262	Penstemon 02b	change "leaves" to "leaves in 2-6 pairs,"
262	Penstemon 02b	change "leaves basal and on the stem" to "leaves basal and in 2-6 pairs on the stem"; add "staminodes tipped with hairs"; delete "and <2.5 cm wide"
262	Penstemon 03a fruticosus	change "6-50(60) x 3-12 mm" to "(5)8-48 x 3-8 mm, 6-10X as long as wide, lance-shaped, smooth-edged or toothed;"
262	Penstemon 03b ellipticus	change "usually untoothed" to "with small, blunt teeth"
262	Penstemon 09a eriantherus	change "upper stems with" to "upper leaf surfaces with"
262	Penstemon 09b	add "leaf surfaces not as above"
263	Plantago 02a maritima	delete "stems 0-4 mm wide;"
263	Plantago 02b	delete "stems 0-1.5 mm wide;"
263	Plantago 03a patagonica	change "lobes 1.5-2 mm" to "lobes 1.3-3.6 mm"; add seeds 2
263	Plantago 03b elongata	add "seeds (3)4-25(30)"
263	Plantago 05a canescens	change "lance-shaped" to "lance-shaped, 6-20 mm wide"; add "; seeds 3-7, 1-1.8 mm"
263	Plantago 05b	change "elliptic to egg-shaped" to "elliptic to egg-shaped, (10)30-70(120) mm wide"; add "; seeds 2-4, 2 mm"
264	Veronica 04b	add "(sometimes 5-8 mm on basal leaves and 0 mm on upper leaves in Veronica anagallis-aquatica)"
264	Veronica 05a scutellata	change "flattened" to "strongly flattened" change "widely notched at the tip" to "widely notched to 1/3 of the length"
264	Veronica 05b	change "swollen" to "swollen to slightly flattened"
265	Veronica 06a anagallis-aquatica	change "5-8" to (4)6-8"; change "2-3.5" to "3-3.5"
265	Veronica 06b catenata	change (2.5)3-5(8)" to "2.5-5"; change "pink or pale bluish" to "pale pink"; change "3-5 mm wide" to "4-5 mm wide"
265	Veronica 09b	delete ", blunt to rounded"
265	Veronica 10a agrestis	change "4-8 mm wide" to "4-5(6) mm wide"; change "6-15" to (5)6-10(15)"; add "; styles 0.2-2 mm"
265	Veronica 10b persica	add "styles (1.5)2-3 mm"
267	Orobanchaceae 02a	change "brown" to "dark wine-red to purple or brown"
268	Castilleja intro	add "Species often hybridize and colors can vary. For example pink hybrids are not uncommon when C. rhexifolia and C. occidentalis grow close together."
269	Castilleja 05b parviflora	change "(3)5-9-lobes" to "(3)5(7) spreading lobes"
270	Castilleja 12a elegans	change "YT-NWT, reported but unconfirmed in AB" to "found near Nordegg and Banff"
270	Euphrasia 02a subarctica	change "2-4" to "0-4"
270	Euphrasia 02a subarctica	change " with abundant" to "mostly with"
270	Euphrasia 02b hudsoniana	change "4.5-6" to "5-6.5"
271	Pedicularis 06a capitata	change "3.0-3.5" to "(2)3.0-3.5(4)"
272	Pedicularis 11a flammea	change "beak deep purple to burgundy" to "beak usually deep purple to burgundy (sometimes yellow)"
272	Phrymaceae 01a	delete "La Butte Creek WP,"
273	Erythranthe 04a moschata	add "fruiting calyces ridged to winged, 6-13 mm long; "
273	Erythranthe 04b	add "fruiting calyces rounded, not angled, 4-7 mm long;"
273	Erythranthe 06a geyeri	change "mostly creeping," to "creeping (mostly) to erect-ascending, (3)10-40 cm long,"
273	Erythranthe 06b	change "mostly erect" to "erect (mostly) to erect-ascending, (6)15-65(80) cm long"
273	Erythranthe 07a guttata	change "Plants with trailing stems, rarely with rhizomes;" to "Stems (6)15-65(80) cm long"; change "(1) ≥5-24 " to "(1)5-24(28)"; add "fruiting calyces usually without red markings; "

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273	Erythranthe 07b tilingii	change "Plants with sod-forming rhizomes and often also creeping stems" to "Stems 2-35 cm long"; add "fruiting calyces usually purple-tinged and purple-dotted; "
274	Verbascum 01a nigrum	change "heart-shaped" to "heart-shaped with abruptly narrowed bases"
274	Verbascum 01b	change "stalkless" to "short-stalked to stalkless"; change "lance-shaped,:" to "lance-shaped with tapered bases"
274	Verbascum 02a thapsus	delete "Plants 100-200 cm tall;" change "filaments of the upper stamens 3-4X as long as the anthers" to "corollas 14-20(30) mm across; lower leaf stalks 0.5-2.5 cm long"
274	Verbascum 02b phlomoides	delete "Plants 30-120 cm tall;" change "filaments of the upper stamens 1.5-2X as long as the anthers" to "corollas 30-55mm across; lower leaf stalks 4-8 cm long"
283	Key to Groups 04a	replace one of the achenes in the illustration with a Bidens achene
288	Asteraceae Group 2 21a	add "involucral bracts edged with a brown strip"
288	Asteraceae Group 2 21b	add "involucral bracts not edged with a brown strip"
314	Liatris 01a punctata	add "on dry plains and hills across sAB, south of Red Deer"
314	Liatris 01b ligustistylis	add "mainly in sandy woods in ceAB, n and e of Red Deer"
327	Townsendia 3a hookeri	add "ray florets 8-14 mm long"; change "and the pappus" to "pappus"
327	Townsendia 3b exscapa	add "ray florets 12-22 mm long"; change "and the pappus" to "pappus"
340	Juncus 08a	add "leaves with indistinct cross-partitions"
340	Juncus 08b	add "leaves mostly with distinct cross-partitions (indistinct in Juncus mertensianus)"
340	Juncus 09a castaneus	add "; anthers 0.6-1.3 mm long"
340	Juncus 09b stygius	add "; anthers (0.3)0.4-0.5 mm long"
340	Juncus 13a mertensianus	add "; leaf cross-partitions indistinct"
340	Juncus 13b	add "; leaf cross-partitions mostly distinct"
340	Juncus 14a	add "; primary bracts usually much longer than the flower clusters"
340	Juncus 14b	add "; primary bracts equal to or shorter than the flower clusters"
341	Juncus 16a brevicaudatus	add "; capsules 3.2-4.8 mm long"
341	Juncus 16b	add "; capsules 2.3-3.5 mm long"
341	Juncus 19a regelii	change "Seeds tips" to "Seed tips"; change "≥ the length of" to "longer than"
350	Carex Group 2 08b	add arrow to base of illustration
408	Amaryllidaceae	add "[Liliaceae, in part]" after Amaryllidaceae
425	Glossary - follicle	change "mature" to "mature, and is produced by an ovary with 1 carpel; often borne in head-like clusters.
427	Glossary - involucl	add "involucl A secondary involucre; a ring of bracts at the base of a secondary umbel within a compound umbel (e.g., small bracts in the Carrot Family, Apiaceae, p.228)."
441	Figure 09 Fruits illustration	change "follicle" to "follicles (cluster of 5)"
481	Index	add "ssp. lehmanniana" to Androsace chamaejasme
481	Index	delete "34, " from Anemone
487	Index	add "Crataegus rotundifolia 186" as a synonym
496	index	correct indent for Peritoma serrulata 130
497	Index	change "Primrose Family" to "Primrose Family"
502	Index	add "Urtica gracilis ssp. gracilis 77" as a synonym