

Horkelia and *Ivesia* synonymized within *Potentilla*; *Potentilla anserina* transferred to *Argentina anserina*; *Potentilla pennsylvanica* synonymized within *P. jepsonii*, with var. *kluanensis* recognized here.

References:

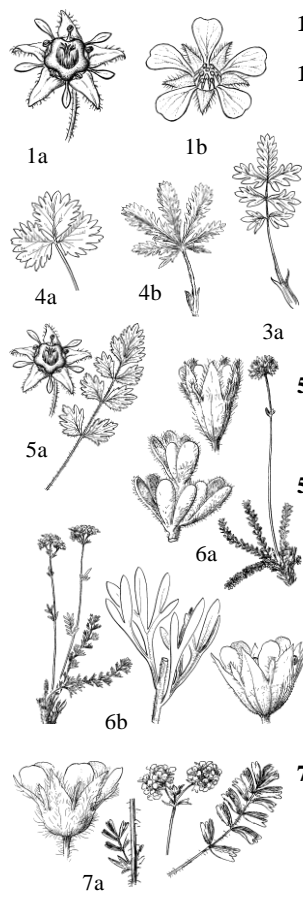
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Feng, T., M.J. Moore, M-H, Yan, Y. Sun, H. Zhang^{1,2}, A. Meng, Xi. Li¹, S. Jian, J. Li¹, and H. Wang. 2017. Phylogenetic study of the tribe Potentilleae (Rosaceae), with further insight into the disintegration of *Sibbaldia*. *Journal of Systematics and Evolution*.

Potentilla L. Cinquefoil; Five-finger

Infls gen cymose, occ fls solitary, fls perig, mostly ♀, occ ♂♀; calyx flaring into a shallow hypan, 5-lobed, bracteolate between lobes; petals mostly yellow (white, red, or purplish), deciduous; stamens mostly 10–∞, rarely fewer, borne at edge of hypan; pistils ∞; ovary superior; style apically to semibasally inserted, filiform to thickened, mostly deciduous; achenes smooth to reticulate; ann to per herbs with compound, alt, stip lvs. (*L. potens*, powerful, referring to supposed medicinal value of some spp.). Treatment here creates a monophyletic *Potentilla*; see also *Argentina* (*P. anserina*), *Comarum* (purple fls), *Dasiphora* (shrubs), and *Drymocallis* (basally attached, fusiform styles, pinnate lvs). (*Horkelia*, *Ivesia*)

Spp. with primarily palmate basal lvs occ have a few subpalmate or subpinnate lvs and here are keyed as palmate. Fls and ripe achenes both needed for accurate identification; more study of species-level variation is needed. We restrict *P. bruceae* Rydb. (*P. drummondii* var. *bruceae*), *P. millefolia* Rydb., and *P. versicolor* Rydb. to the s of our area; *P. arenosa* (Turcz.) Juz. and *P. subvahliana* Jurtzev are n of our area; while *P. ovina* var. *decurrens* and *P. saximontana* Rydb. (*P. concinna* var. *rubripes*, *P. rubricaulis* Lehm. misapplied) are found to the e and s of our area. *Potentilla quinquefolia* Rydb. is misapplied in N Am.



- 1a** Stamens 5; pistils in our sp. (1)2–9; petals yellow or white (former *Ivesia*) **Group 1**, lead 5a
- 1b** Stamens 10–40; pistils in our spp. gen > 10; petals white, yellow, or pinkish
- 2a** Stamens 10, erect or slightly incurved (at least in early fls), forming a column or cone, the filaments flattened and broadened towards the base; petals white to pinkish (former *Horkelia*) **Group 2**, lead 7a
- 2b** Stamens 10–40, ascending to spreading, never forming a column or cone, the filaments filiform; petals yellow to white **Group 3**, lead 8a
- 3a** Most or all basal and lower st lvs pinnate
- 3b** Most or all basal and lower st lvs ternate to palmate
- 4a** Most or all basal and lower st lvs ternate **Group 4**, lead 23a
- 4b** Most or all basal and lower st lvs palmate (subpalmate) **Group 5**, lead 34a
- Group 1** Stamens 5, petals yellow or white
- 5a** Petals white; lflets < 20; infl open, dichotomously br; peds filiform, recurved in fr; sheltered cliffs, crevices, river canyons, granitic or volcanic; se OR to ne CA, e to NV, s ID, and n to Elmore Co, ID; Owyhee c.; ours var. **beneolens** (A.Nelson & J.F. Macbride) Mosyakin & Shiyan (*I. ba.* var. *be.*) **1 P. baileyi** (S. Watson) Greene
- 5b** Petals yellow; lflets > 20; infl congested, often subcapitate; peds gen erect
- 6a** Petals slightly < the sepals; hypan conic, (2.5–)3–4 mm, subequal to sepals, longer (or deeper) than wide; rocky slopes, grassl, sagebr, open for, subalp to alp ridges; in or e Cas, WA to CA, e to MT and CO; Gordon’s i.; ours var. **gordonii** (*I. g.* vars. *alpicola*, *g.*, *ursinorum*) **2 P. gordonii** (Hook.) Greene
- 6b** Petals ≥ sepals; hypan shallowly bowl-shaped, 2–2.5 mm, < the sepals, wider than long (or deep); open for, subalp to alp meadows, rocky slopes, tolerates serpentine; e Cas, Chelan to Yakima cos, WA, e to n ID, and Mineral Co, MT; Tweedy’s c. (*I. t.*) **3 P. tweedyi** (Rydb.) Howell
- Group 2** Stamens 10, petals white to pinkish
- 7a** Lower and mid-st lvs with deeply divided stips with narrow lobes; sts and stips gen long-hairy, glands inconspicuous; lflets narrowly oblanceolate to oblong-oblanceolate; petals white or cream; grassl, sandy or rocky flats, open woodl; w Cas, Wi Va to nw CA; shaggy h.; ours var. **congesta**, occurring s to Douglas Co, OR (H. c.) **4 P. congesta** (Douglas ex Hook.) Baill.



7b Lower st lvs with entire to coarsely toothed or lobed stips; sts and stips conspicuously glandular, long hairs inconspicuous; lflets narrowly oblanceolate to broadly obovate; petals white to pink, sometimes with darker veins; c WA to CA, e to ID, NV, disjunct in WY; 3 vars. in our area (*H. fusca*)

5 P. douglasii Greene

a1 Lflets divided ca halfway or more to midrib; damp meadows, rocky slopes, open for; in and e Cas, Kittitas Co, WA, to c OR, e to Columbia Co, WA, and Umatilla Co, OR; tawny or dusky h. (*H. f.* var *f.*)

var. **douglasii**

a2 Lflets toothed, or shallowly divided less than halfway to midrib

b1 Infl dense; infl bracts acuminate-lobed, obscuring mature fls and peds; glandular hairs gen red-septate; dry meadow margins, open for; se WA, ne OR, and n ID (*H. f.* var. *c.*)

var. **capitata** (Lindl.) J.T.Howell

b2 Infl dense or open; infl bracts acute-lobed, not obscuring mature fls and peds; glandular hairs not or obscurely red-septate; dry meadow margins, open for; in and e Cas, c OR s to CA, e to c ID, NV, and disjunct in nw WY (*H. f.* var *p.*, var. *pseudocapitata*)

var. **parviflora** (Nutt. ex Hook. & Arn.) J.T.Howell

Group 3 Lvs pinnate

8a Styles fusiform, widest near middle and narrowed at base, attached on lower half of ovary or seed; anthers dehisce along a single elongate seam that extends over sides and top

Drymocallis (see p. ###)

8b Styles widest near base or straight-sided and narrow throughout, attached on upper half of ovary or seed; anthers dehisce along 2 lateral seams, the chambers separated by a slim wall at the anther summit

9a Petals ± as long as or slightly shorter than the sepals

10a Sepals with ∞ evident, sessile glands; stips deeply lobed

11a Epicalyx bractlets 3–6(–8) mm, ± as long as sepals; basal lvs pinnate, gen 7–11(–15) lflets; grassl, rocky slopes, steppe, mont ridges; AK s, e Cas, to sc BC, ID (not in WA or OR), s to CA, TX, e to Atl; Eurasia; prairie c. (*P. littoralis*, *P. p.* var. *l.*; *P. p.* var. *strigosa* misapplied)

6 P. pensylvanica L

11b Epicalyx bractlets 1.5–3 mm, 1/2–3/4 the length of sepals; basal lvs pinnate to subpinnate or subpalmate, gen (3)5–7 lflets; damp alp meadows, rocky slopes and ridges, talus; Yukon to CA, e to Alta, MT, CO, and AZ; Jepson's c. (*P. littoralis* var. *ovium*, *P. pensylvanica* var. *o.*) 2 vars.

7 P. jepsonii Erterter

a1 Petiole hairs spreading to loosely appressed; lflet margins weakly revolute; Alta to CA, e to MT, CO, and AZ

var. **jepsonii**

a2 Petiole hairs appressed to ascending; lflet margins more revolute than in a1; AK to n WA, e to Alta

var. **kluanensis** Erterter

10b Sepals lacking ∞ and evident sessile glands; stips entire or shallowly lobed

12a Lflets gen incised no more than halfway to midvein

13a Fully ripe achenes with corky lobe sometimes as large as body of achene; lvs sparsely hairy below; sandy shores, moist flats; s BC to s OR, TX, Mex, e to NY; Eurasia; bushy c., ours subsp. **paradoxa** (Nutt.) Soják (*P. paradoxa*)

8 P. supina L.

13b Fully ripe achenes without prominent corky lobe, surface smooth to slightly rugose; lvs densely tomentose below; grassl, rocky slopes, open for; BC, s in RM, through w MT, ID, to NM, e to Que; woolly c. (*P. effusa*, *P. h.* var. *e.*)

9 P. hippiana Lehm.

12b Lflets gen incised more than halfway to midvein

14a Lflets densely tomentose below, pinnately lobed; anthers 0.3–0.5 mm; petals 3–5 mm; lvs with 5–7 lflets; style 0.9–1.1 mm; grassl, stream shores, sagebr steppe; AK to NWT, s to Alta, MT, ID, NM, e to Que; bipinnate c. (*P. pensylvanica* var. *b.*)

10 P. bipinnatifida Douglas

14b Lflets green to gray-green, hairy but not tomentose below, ± palmately or ternately lobed; anthers 0.5–0.8 mm; petals 4–7 mm; lvs with 7–11 lflets; style 1.3–3 mm; wet meadows, moist openings; reported from Wallowa Co, OR, otherwise s OR to CA and NV; feather c. (*P. versicolor*)

11 P. millefolia Rydb.

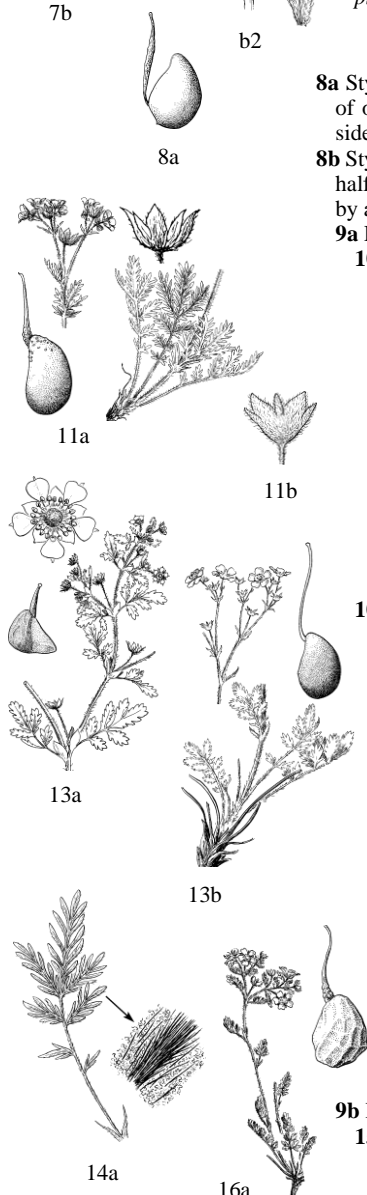
9b Petals longer than the sepals

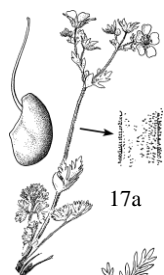
15a Lvs green on both surfaces

16a Petals white; short-lived per with slender taproot; vernal pools, shores, mudflats; CRG in WA (1898), c OR s, e Cas, to ne CA, nw NV; Newberry's c.

12 P. newberryi A. Gray

16b Petals yellow; long-lived per with thick taproot or elongate scaly caudex





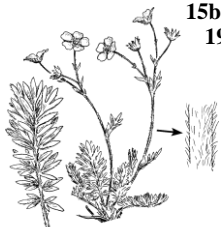
17a



18a



18b



20a



21a



22b



25a



25b



27a

17a Pls with numerous short-stipitate glands; lflets often crowded, divisions wide; moist or rocky slopes, talus, alp meadows, subalp for; ne OR to n NV, e to c ID, sw MT, WY; short-lvd c. **13 P. brevifolia** Nutt.

17b Pls with glands absent or scarce; lflets well-spaced, divisions narrow
18a Lflets 5–9, coarse, incised ca 1/2–2/3 to midrib; hypan 3–7 mm diam; sepals 5–10 mm; petals (6–)7–12 × 5–10 mm; damp or dry rocky meadows, open for, subalp and alp; AK and BC, s to OM and Cas of WA, OR, CA, e to sw Alta, nw MT; Drummond's c. **14 P. drummondii** Lehm.

18b Lflets 7–17, fine, incised $\geq 3/4$ to midrib; hypan 3–4 mm diam; sepals 3–6 mm; petals 4–7 × 3–6 mm; moist meadows, shores, lowl to subalp; NWT s to Alta, sw MT, ID, AZ, and e to Man, SD, and NM; Platte c. **15 P. plattensis** Nutt.

15b Lvs whitened with dense or long pale hairs on one or both surfaces
19a Lvs appressed-hairy below, but not tomentose, lower lf surface visible between hairs; distal lflets \pm distinct

20a Lower sts with sparse hairs ascending to spreading, wavy, ± 1 mm; dry rocky slopes and ridges, fellfields, often limy, lowl to alp; BC and MT s to ID, OR, NV, and CO; sheep c., ours var. **ovina**

16 P. ovina J.M. Macoun

20b Lower sts with hairs tightly appressed, straight, ± 0.5 mm; moist meadows, shores (see lead 17b) **15 P. plattensis** Nutt.

19b Lvs tomentose below, lower lf surface obscured by hairs; distal lflets \pm confluent

21a Pls to 20 cm, sts 1.5–2 × as long as rosette lvs; petals 6–7 × 5–7 mm; infl 1–10-flld; dry grassl, often limy, ledges, rocky or gravelly slopes, open for; sw Alta and w MT; Macoun's c. (*P. concinna* var. *m.*)

17 P. macounii Rydb.

21b Pls to 45 cm, sts 2–5 × as long as rosette lvs; petals 5–10 × 4–10 mm; infl 2–25-flld

22a Stamens 20–25, filaments 0.5–3.5 mm; sts commonly erect; styles 1.5–2.5 mm; grassl; BC, ID and e (see lead 12b) **9 P. hippiana** Lehm.

22b Stamens 15–20, filaments (1–)2–4 mm; sts commonly prostrate; styles 2–3 mm; moist meadows, shores, open slopes, mont to alp; c WA to CA, e to NV; Brewer's c. (*P. drummondii* var. *b.*)

18 P. breweri S. Watson

Group 4 Lvs mostly ternate

23a Lvs glab or hairy beneath, not tomentose, lower lf surface visible between hairs

24a St lvs gen 0–2; pls with heavy caudex, per; petals 4–12 mm; mont to alp

25a Pls forming dense mats or cushions; sts gen < 10 cm; infls 1–3-flld; lflets 0.5–1 cm, \pm sessile, margins \pm evenly and singly serrate; rocky slopes, talus, heath, turf, snowmelt meadows, often acidic, alp; circumpolar, s to Whatcom Co, WA, sc MT, WY, and Que; subarctic c., ours subsp. *elatior* (Abrom.) Elven & D.F. Murray **19 P. hyparctica** Malte

25b Pls forming large, open clumps, not dense mats or cushions; sts gen 15–30 cm; infls 1–6-flld; lflets 1–5 cm, often with short petiolules, margins \pm unevenly serrate, sometimes doubly so; damp or wet meadows, shores, open for, rocky slopes, talus, subalp and alp; s BC s, in OM and Cas, to CA, e to Alta, MT, and WY; fan-lf c. **20 P. flabellifolia** Hook. ex Torr. & A. Gray

24b St lvs gen 3–10; pls with narrow taproot, ann, bien, or weak per; petals 1.5–5 mm, lowl; lvs mostly ternate, rarely a few palmate

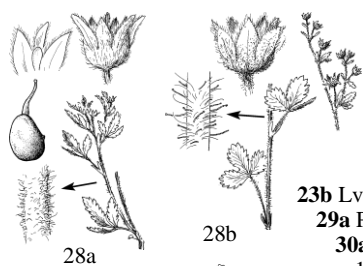
26a Sts trailing and rooting at nodes; petals, sepals 4–5; fls solitary on lfless peds from nodes (see leads 39a–39b) **33 P. anglica** Laichard.

34 P. reptans L.

26b Sts \pm erect; petals, sepals 5; fls in br, terminal infls

27a Ripe achenes ridged; sepals 5–8 mm; hairs of lower sts and petioles stiff, spreading, bulb-based; damp meadows, shores, roadsides, ditches, open for; widespread, AK to CA, Mex, C Am, e to Atl; Greenl and Eurasia; Norwegian c. (*P. n.* var. *hirsuta*); perhaps both native and intro races in our area **21 P. norvegica** L.

27b Ripe achenes smooth; sepals 2–5 mm; hairs of lower sts and petioles soft, spreading or ascending



28a Lower sts and petioles eglandular or with a few inconspicuous glands; disturbed damp meadows, shores, marshes, gravel bars, lowl; BC s, mostly e Cas, to CA, e to Atl, Baja Cal; brook or river c. (*P. millegrana*)

22 *P. rivalis* Nutt.

28b Lower sts and petioles with conspicuous and usually numerous, elongate, multicellular, stipitate glands; disturbed damp meadows, shores, seeps, lowl; AK to CA, e to Sask, ND, NM; biennial c. 23 *P. biennis* Greene

23b Lvs tomentose beneath, lower lf surface obscured by hairs

29a Petioles tomentose with interwoven hairs

30a Infls 1–5(–7)-fld; epicalyx bractlets 1/4–1/2 width of sepals; lflets gen with 7–13 teeth; rocky slopes, ridges, scree, often limy, subalp and alp; circumpolar, s to WA, and in RM to MT and NM, also Newf, Green; snow or snowy c.

24 *P. nivea* L.

30b Infls 1–2(–5)-fld; epicalyx bractlets (1/2–)2/3 width of sepals; lflets gen with 5–7(–9) teeth; rocky slopes, ridges, scree and talus, heaths, subalp and alp meadows; AK to BC, Alta, WY, UT, and CO, e to Nunavut; ne Asia; Yukon c. (*P. uniflora* misapplied) 25 *P. subgorodkovii* Jurtzev

29b Petioles hairy but the hairs straight or wavy, not interwoven

31a Epicalyx bractlets 1.5–3 mm; petiole hairs often minutely warty (50×); lvs often both ternate and palmate on same pl; sepals conspicuously glandular

32a Epicalyx bractlets linear to lance-oblong; infls open; alp limy cliffs, rocky slopes, fellfields, scree, and river canyons; BC s to ID and NV, e to Alta, MT, and CO; Hooker's c. (*P. arenosa* misapplied) 26 *P. hookeriana* Lehm.

32b Epicalyx bractlets narrowly elliptic; infls gen dense; subalp and alp rocky slopes, ridges, fellfields, and talus, often limy; uncommon, ID to UT, e to MT and WY; modest c. (*P. concinna* var. *m.*, *P. rubricaulis* misapplied)

27 *P. modesta* Rydb.

31b Epicalyx bractlets 3–8 mm; petiole hairs smooth, not minutely warty (50×); lvs gen ternate; sepals gen not conspicuously glandular; the following 2 spp. perhaps not distinct

33a Epicalyx bractlets 1.5–5 mm wide, 2/3 to as wide as sepals; filaments 1.1–2.1 mm; anthers 0.5–0.8 mm; sea cliffs, beaches, pumice, scree, alp ledges, heaths, and ridges; AK s, in both OM and Cas, to OR, e to Yukon, Alta; ne Asia; villous c. (*P. v.* var. *parviflora*, *P. villosula*) 28 *P. villosa* Pall. ex Pursh

33b Epicalyx bractlets 0.8–2.5 mm wide, 1/2–2/3 to as wide as sepals; filaments 1–1.3 mm; anthers 0.4–0.6 mm (see lead 29b) 25 *P. subgorodkovii* Jurtzev

Group 5 Lvs mostly palmate

34a Lvs (or at least the younger ones) tomentose beneath, lower lf surface obscured by hairs (some vars. of *P. gracilis* key both ways)

35a Lf margins strongly inrolled; petals 2–4 mm; achenes rugose; epicalyx bractlets occ lobed; roadsides, pastures, shores, ditches, disturbed ground; Eurasian intro; BC s, mostly e Cas, to OR, e to Atl; silvery or hoary c. 29 *P. argentea* L.

35b Lf margins flat (or slightly inrolled); petals gen 4–11 mm; achenes smooth or rugose; epicalyx bractlets gen entire

36a Styles 0.6–1.1 mm

37a Central lflets gen 0.5–2 cm; proximal lflets separated by 0–1 mm from other lflets; epicalyx bractlets 0.5–1 mm wide; st gen 0.3–1.5(–2.5) dm; modest c. (see lead 31b) 27 *P. modesta* Rydb.

37b Central lflets gen 2–5 cm; proximal lflets not separated from other lflets; epicalyx bractlets 1–1.5 mm wide; st 1–5 dm; disturbed ground, roadsides, ditches, openings, open for; Eurasian intro; BC to WA, e to WY, AZ, and e US; ashy c. (*P. intermedia* misapplied) 30 *P. inclinata* Vill.

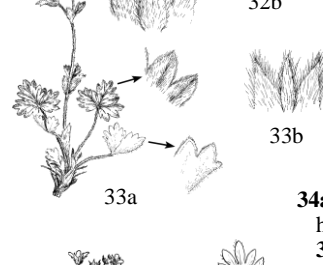
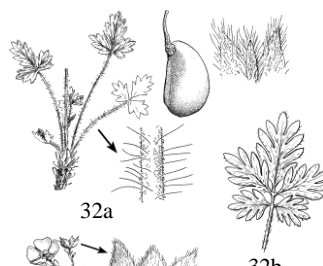
36b Styles gen 1.5–3 mm

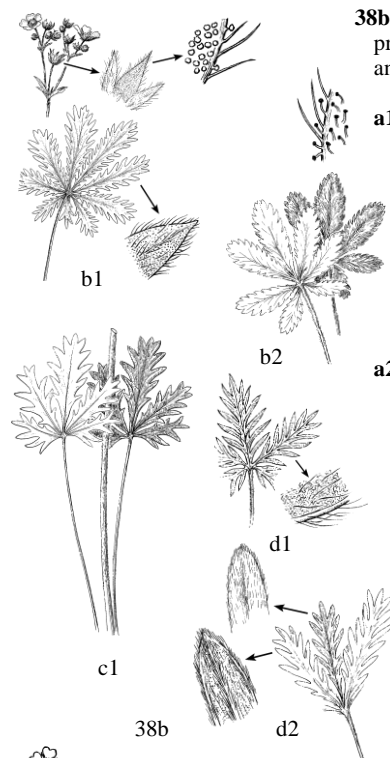
38a St 2–15 cm; infl 1–6-fld; lflets gen 1–3 cm; proximal lflets separated by 0–5(–10) mm from other lflets; Alta to CA and NM, e to Man and SD; 2 vars.

31 *P. concinna* Richardson

a1 Lflets incised no more than halfway to midvein, teeth 1–3 mm; meadows, damp openings, grassl, rocky slopes and ridges; Alta to MT, WY, AZ, e to Sask, SD, and NM; early c. var. *concinna*

a2 Lflets incised 1/2–3/4 way to midvein, teeth 2–6 mm; grassl, rocky slopes and ridges, often limy, open for; Alta to MT, WY, UT, and e to Man, SD; silky c. var. *divisa* Rydb.





38b St (15–)20–70(–120) cm; infl (4–)10–50(–70)-fld; lflets gen 3.5–9 cm; proximal lflets not separated from other lflets; widespread, AK to CA, e to Que and NM; 5 intergrading vars., needing further study

32 **P. gracilis** Douglas ex Hook.

a1 Calyx with conspicuous and numerous glands, gen sparsely hairy; lflets often incised no more than 1/2 to midrib

b1 Calyx, infl, and petioles with conspicuous yellow glands; lvs gen sparsely hairy beneath; sagebr steppe, grassl, damp rocky flats, slopes and benches; se WA, ne OR, e to MT, CO, possibly intro in AK; glandular c. (*P. b.*)

var. **brunnescens** (Rydb.) C.L. Hitchc.

b2 Calyx, infl, and petioles with conspicuous red-tipped glands; lvs ± tomentose beneath, at least when young; sagebr steppe, dry grassl, open for; s BC s, e Cas, to ID, NV, CA, e to Que, SD, NM; beautiful c. (*P. p.*)

var. **pulcherrima** (Lehm.) Fernald

a2 Calyx eglandular or with a few inconspicuous glands, sparsely to densely hairy; lflets shallowly or deeply incised

c1 Lflets gen incised no more than 1/2 to midrib; lvs variable, tomentose beneath or not; damp to seasonally damp or dry meadows, flats, slopes, sagebr steppe, open for; AK s, on both sides Cas, to CA, e to Que, MN, CO, and AZ; slender or graceful c. (*P. g.* vars. *fastigiata*, *glabrata*, *permollis*)

var. **gracilis**

c2 Lflets incised > 3/4 to midrib; lvs tomentose beneath

d1 Upper lf surfaces tomentose, at least when young; petioles densely hairy; lflet margins flat; seasonally damp meadows, sagebr steppe, open for; c OR e to Owyhee Co, ID; Owyhee c.

var. **owyheensis** Ertert & Mansfield

d2 Petioles and upper lf surfaces sparsely to densely pubescent but not tomentose, the hairs not interwoven; lflet margins inrolled; seasonally damp meadows, dry flats and slopes, meadows, grassl, sagebr steppe, lowl to mont; BC to CA, e to Ont, MI, MT, and WY; meadow c. (*P. g.* var. *elmeri*)

var. **flabelliformis** (Lehm.) Nutt.

34b Lvs glab or hairy beneath, but not tomentose, lower lf surface visible

39a Sts trailing and rooting at nodes; petals, sepals 4–5; fls solitary on lfless peds from axillary nodes; lowl; intro spp.

40a At least some fls with 4 sepals and petals, fls 14–18 mm diam; ripe achenes ± smooth, 20–50; moist flats and slopes; open for, trails, roadsides, disturbed ground, wet meadows; European intro; uncommon, BC s, on both sides Cas, to CA, UT, CO, and e US; English or wood c.

33 **P. anglica** Laichard.

40b Sepals and petals all 5, fls 17–25 mm diam; ripe achenes ± rugose, 60–120; disturbed ground, lawns, roadsides; Eurasian intro; uncommon, Wi Va to CA and UT, also in e US; creeping c.

34 **P. reptans** L.

39b Sts ± ascending or erect; petals, sepals 5; fls in br terminal infls; lowl to alp; intro and native spp.

41a Ripe achenes ± strongly ridged to reticulate-veiny; petals pale yellow; sts and petioles with stiff, spreading, bulb-based hairs as well as shorter glands and eglandular hairs; styles 0.8–1.3 mm; lowl to mont grassl, meadows, disturbed ground, roadsides, and open for; Eurasian intro; AK s, both sides Cas, to CA, e to Atl; erect or suphur c.

35 **P. recta** L.

41b Ripe achenes nearly or quite smooth; petals gen deep yellow; sts and petioles glab or with softer, ascending or wavy hairs, not spreading or if spreading, not bulb-based; styles (1–)1.5–3 mm

42a Lvs blue-green, often glaucous; lower lflets often reduced and less toothed; subalp and alp meadows, rocky flats and slopes, and fellfields; AK s, mostly e Cas, to CA, e to NWT, Sask, MT, CO, and Greenl; bluelf or vari-lvd c. (*P. diversifolia* misapplied, *P. g.* vars. *g.*, *perdissecta*)

36 **P. glaucophylla** Lehm.

42b Lvs green (grayish), not blue-green, not glaucous

43a Lflets gen 1–2.5 × 1–1.5 cm, deeply pinnately lobed; sts 0.5–2(–2.7) dm, gen 1–2(–3) × as long as basal lvs; subalp and alp rocky slopes, dry meadows, and fellfields; ID, NV, UT, MT, and WY; Great Basin c. (*P. diversifolia* var. *m.*)

37 **P. multisecta** (S. Watson) Rydb.

43b Lflets gen 2–10 × 1–4 cm wide, shallowly or deeply pinnately lobed; sts (0.5–)2–7(–12) dm, gen 2–4 × as long as basal lvs (see lead 37b)

32 **P. gracilis**

