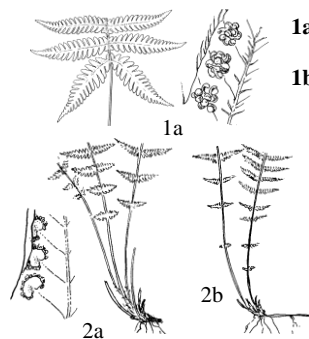


Thelypteridaceae key to genera updated to accommodate synonymization of *Parathelypteris* within *Amauropelta*; *Parathelypteris* genus treatment updated to *Amauropelta*; *Oreopteris quelpertensis* used in place of orthographic variant *O. quelpaertensis*. Updates based on Fawcett, S. & A.R. Smith. 2021. A generic classification of the Thelypteridaceae. Sida, Bot. Misc. 59. BRIT Press. 102 pp.

### THELYPTERIDACEAE Marsh Fern Family

Herbaceous, per ferns, terrestrial or on rock; st a creeping to short and erect rhizome or a br caudex bearing non-clathrate scales; lvs coiled in bud, petiolate, gen pinnate to pinnate-pinnatifid; indument of transparent, needlelike hairs, less commonly scales; fertile and sterile lvs alike or not; petiole bundles 2, elongate or crescent shaped, united below the bl; veins free or anastomosing, meeting lf margins at or above sinus, or united below sinus; sori, on the lower surface, naked or more often  $\pm$  covered by a reniform indusium; sporangia small, short- to long-stalked, thin-walled, elastically dehiscent, with a well-developed vertical annulus interrupted by the stalk; spores all alike, not green, bilateral, monolete; gametophytes green, cordate, terrestrial.



**1a** Lf bl (4–)10–20(–25) cm, 1–2  $\times$  as long as wide,  $\leq$  the petiole, the lowest several pairs of pinnae the largest; indusium lacking **Phegopteris**

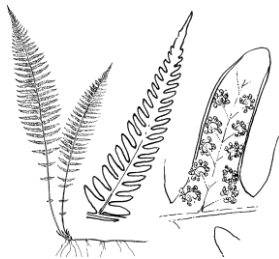
**1b** Lf bl gen 25–70 cm, 2.5–5  $\times$  as long as wide,  $>$  the petiole, the lowest several pairs of pinnae reduced; indusium reniform or horseshoe shaped

**2a** Rhizome short, stout; upper side of rachis with persistent tan to straw-colored, linear-lanceolate scales, hairs lacking or sparse along costae; bl eglandular to sparsely glandular **Oreopteris**

**2b** Rhizome slender, elongate; rachis and costae on lf underside with sparse, 0.2–0.7 mm hairs; bl underside with numerous yellow to orange, mostly short-stipitate glands **Amauropelta**

#### **Amauropelta** Kunze Marsh Fern

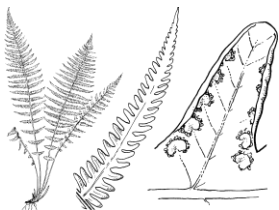
Medium-sized, mesophytic ferns, rhizome slender and elongate, glab or scaly; petioles scaly at base; lvs thin, light green, deciduous, solitary or clustered, pinnate-pinnatifid, pubescent with slender, unicellular hairs, at least on the rachis, or glab, lamina often glandular; veins free, reaching margins above sinus; lf margins entire or  $\pm$  serrate; sori roundish, medial, each borne on a vein continuing to the margin; indusium reniform to horseshoe-shaped. (Gr *amauros*, dark, and *pelte*, shield, referring to the darkened indusia of the type sp.; most spp. in *Amauropelta*, if indusiate, have tan or stramineous indusia at maturity). (*Parathelypteris*, *Thelypteris* in part).



**A. nevadensis** (Baker) S.E. Fawc. & A.R. Sm. Lvs (25–)40–105 cm, clustered; petiole straw-colored at base, scales tan to reddish brown; bl elliptic, 20–70 cm, with numerous  $\pm$  orange, sessile to usually short-stalked glands on underside, upper bl surface glab except along costae, proximal 4–10 pinna pairs gradually reduced; pinnae deeply pinnatifid to within 1 mm of costa, segm entire to crenulate; sparse, 0.2–0.7 mm hairs on rachises, costae, and sometimes veins; stream banks, moist for, and springs, lowl to midmont; uncommon in our area, s VI and w slope Cas, Whatcom Co, WA to nw and c CA, disjunct in n ID; Sierra m. (*P. n.*, *T. n.*, *T. oregona*).

#### **Oreopteris** Holub Mountain Fern

Medium-sized, mesophytic ferns with stout and erect, often br scaly rhizome; lvs deciduous, tufted, pinnate-pinnatifid, petioles persistently scaly, lvs sparsely pubescent with slender, unicellular hairs, at least on the rachis; veins free, reaching margins above sinus; lf margins entire or shallowly undulate; sori roundish, submarginal, each borne on a vein continuing to the margin; indusium reniform, with glands along margins. (Gr *oreo*, mountain, and *pterus*, fern). (*Thelypteris* in part).



**O. quelpertensis** (Christ) Holub. Lvs (15–)25–100 cm, soft, yellow-green; petiole straw-colored to tan above base, scales on petioles and rachises silvery when young, becoming tan or straw-colored, persistent, ovate to lanceolate; bl 25–80 cm, elliptic, lacking glands or sparsely glandular, 5–10 pairs of proximal pinnae gradually smaller toward base; pinnae deeply pinnatifid to ca 1 mm or less from costa, segm entire or crenulate; hairs lacking or sparse along costae; moist, rocky places and stream banks, mont in our area; AK s in coastal mts of BC to Cas of c WA; also in e Asia (*O. quelpaertensis*, orthographic variant, *T. q.*, *T. limbosperma* misapplied).

**Phegopteris** (C. Presl) Fée Beechfern

Small to medium-sized, mesophytic ferns with gen slender and elongate rhizome with scales and hairs; lvs thin, deciduous, solitary, bipinnatifid or pinnate-pinnatifid, sparingly scaly, pubescent with slender, unicellular hairs on the rachis and bl; rachis not grooved on upper side, veins free, reaching margins above sinus; lf margins entire, crenate, or toothed; sori roundish, medial, each borne on a vein continuing to the margin; indusium absent or very small and vestigial. (Gr *phegos*, beech, and *pterus*, fern). (*Thelypteris* in part).



**P. connectilis** (Michx.) Watt. N b. Lvs 15–60 cm; petiole straw-colored at base, scales brownish, lanceolate, glab or sparingly hairy on margin; bl (6–)12–25 cm, narrowly to broadly deltate, 1–2 × as long as wide, proximal 1–2 pinna pairs longest; pinnae deeply pinnatifid, lowermost 1–2 pairs separate, sessile, more distal pairs strongly adnate, connected by narrow rachis wing; bl with 0.3–1 mm hairs along costae, veins, and underside; cliff crevices and moist banks in wooded regions, mont to subalp; circumboreal, s along BC coast, VI, and Cas to s WA, e to e BC, n ID and nw MT, also e across Can to Atl, s to IA and NC (*T. phegopteris*, *Dryopteris* p.).