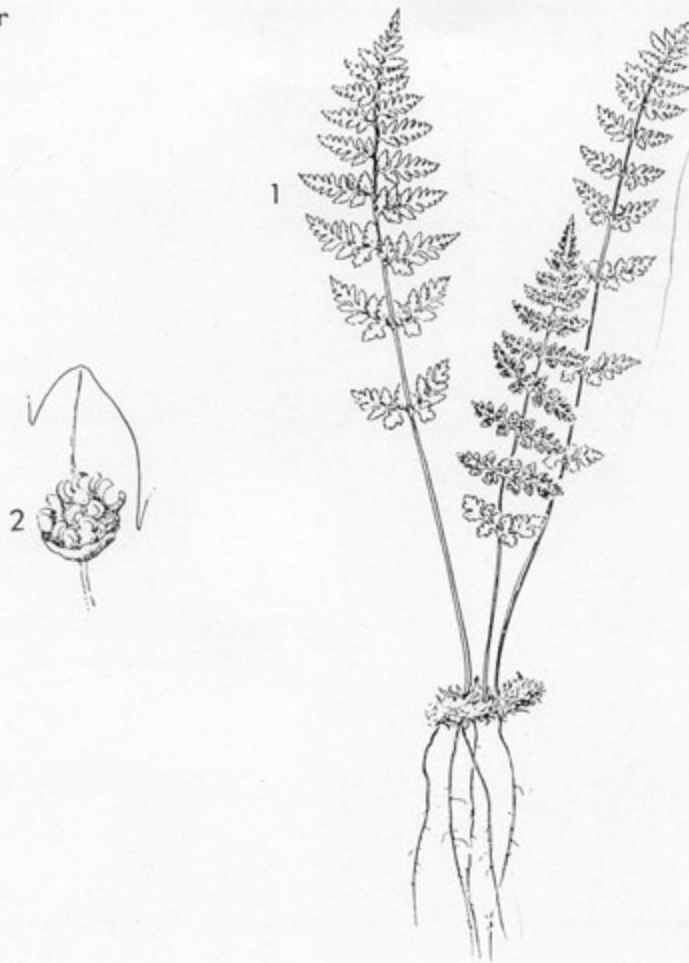


C y f r



POLYPODIACEAE
Cystopteris fragilis (L.) Bernh.
 Cyfr

brittle bladderfern

FORM: Delicate perennial, small to medium fern; fronds in small clusters attached to a scaly rhizome.

LEAVES: Deciduous, glabrous, bi or tripinnate blade at least twice as long as wide, 3-25cm (1-10in) by 1-10cm (1-4in), consisting of 8-18 pairs of offset leaflets, blade gradually tapers to tip (1).

SORI: Small and numerous in cuplike indusium borne on a veinlet (2).

SIMILAR SPECIES: *Woodsia oregana*, p.96; young *Athyrium filix-femina*, p.86; and possibly near Canada: *Cystopteris montana* (Mtn. bladder-fern), blade nearly as wide as long.

HABITAT: Moist to moderately dry, shady woods often in rocky places up to subalpine.

1	Syal h.t.		Pjpo
4	Phma h.t.		
	Caru	Caru	Psmc
1	Aruv	h.t.	
2	Phma	Phma	
5	Smst	h.t.	
2	Phma	Phma	Abgr
3	Cooc	h.t.	
	Libo	Libo	
	Xete	h.t.	
1	Asca	Asca	
1	Tabr		
	Mefe		
1	Setr	h.t.	
+	Phma	Clun	
+	Clun		
1	Tabr		
	Mefe		
	Xete		
	Vagl	Xete	
	Cooc	h.t.	
+	Clun	Clun	Thp1
2	Tabr		
	Mefe		
	Xete		
1	Asca	Asca	
	Tabr		
3	Mefe		
2	Gydr	h.t.	
1	Adpe	h.t.	
	Adpe	Atfi	
1	Atfi		
2	Opho	h.t.	
+	Clun	Clun	Tshe
	Arnu		
	Mefe		
	Xete		
+	Asca	Asca	
	Arnu		
	Mefe		
1	Gydr	h.t.	
+	Mefe	Clun	Tsmc
	Xete		
	Xete	Mefe	
1	Luhi	h.t.	
	Mefe	Stam	
	Luhi		
1	Vagl	Xete	
	Luhi	h.t.	
3	Clun	Clun	Ab1a
	Mefe		
2	Xete		
	Cooc	Mefe	
	Xete		
	Vasc		
	Luhi		
1	Mefe	Stam	
	Lica		
2	Caca	Caca	
	Vaca		
	Legl		
	Cooc	Xete	
	Vagl		
	Vasc		
	Luhi		
	Vasc	h.t.	Pico
	Xete	c.t.	
	Vaca	c.t.	