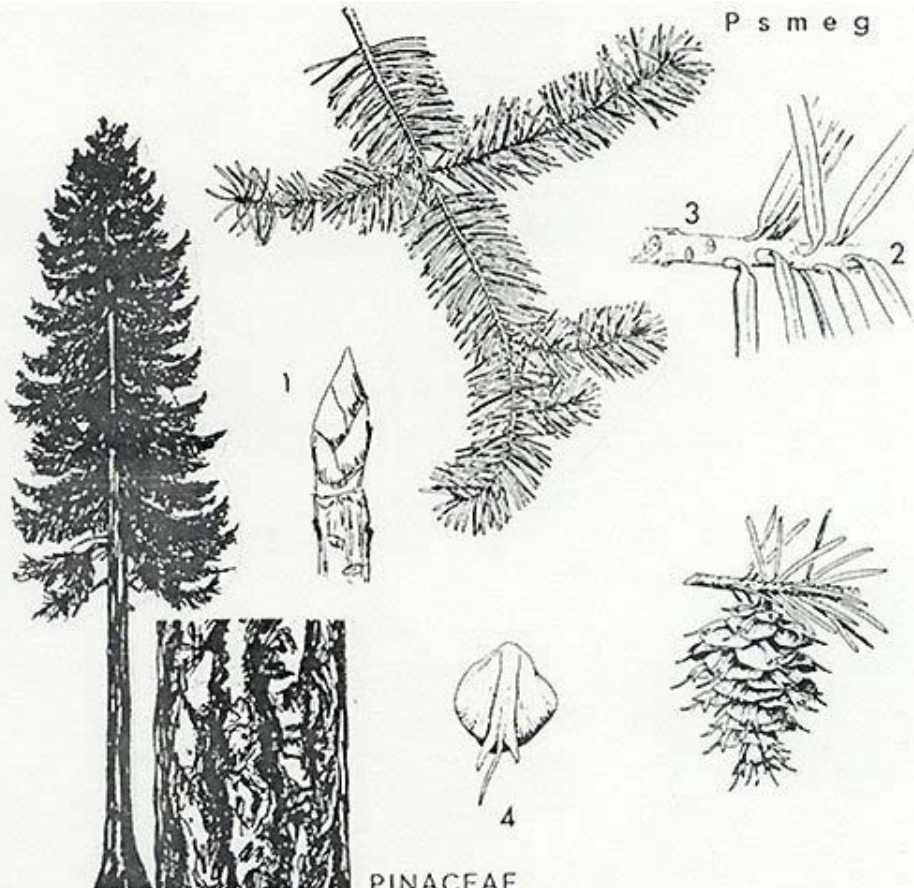


Pipo	Syal h.t.	1	
	Phma h.t.	1	
Psmg	Caru h.t.	Caru 10	
	Aruv	9	
	Phma h.t.	Phma 10	
	Smst	10	
Abgr	Phma h.t.	Phma 10	
	Cooc	10	
	Libo h.t.	Libo 8	
	Xete	9	
	Asca h.t.	Asca 9	
	Tabr	4	
	Mefe	5	
	Setr h.t.	2	
	Clun h.t.	Phma	10
		Clun	9
Tabr		7	
Mefe		6	
Xete		9	
Xete h.t.	Vagl 9		
Cooc	10		
Thpl	Clun	7	
	Tabr	6	
	Mefe	7	
	Xete	8	
	Asca h.t.	Asca 6	
	Tabr	2	
	Mefe	9	
	Gydr h.t.	2	
	Adpe h.t.	3	
	Atfi h.t.	Atfi 1	
Atfi	1		
Opho h.t.			
Tshe	Clun h.t.	Clun 5	
	Arnu	5	
	Mefe	8	
	Xete	5	
	Asca h.t.	Asca 5	
Arnu	4		
Mefe	3		
Gydr h.t.	2		
Tsmg	Clun h.t.	Mefe 6	
	Xete	7	
	Mefe h.t.	Xete 1	
	Luh		
	Stam h.t.	Mefe 2	
Luh			
Xete h.t.	Vagl 5		
Luh			
Abia	Clun h.t.	Clun 7	
	Mefe	4	
	Xete	8	
	Cooc	6	
	Mefe h.t.	Xete 2	
	Vasc	3	
	Luh		
	Stam h.t.	Mefe 2	
	Lica	2	
	Caca h.t.	Caca 3	
Vaca			
Lgl			
Cooc	7		
Xete h.t.	Vagl 7		
Vasc	3		
Luh			
Pico	Vasc h.t.	1	
	Xete c.t.		
	Vaca c.t.		



PINACEAE

Pseudotsuga menziesii var. *glauca* (Beissn.) Franco
Psmeg

Rocky Mountain Douglas-fir, red fir

FORM: Tree up to 45m (150ft) tall; compact, pyramidal crown with irregular branching habit; branches upward spreading to drooping, with stiffly erect leader.

IDAHO CHAMPION: 1998. 70in dbh; 221in circum; 209ft tall; 7ft crown=437 pts.; Clearwater Co., Pollatch Corp., ID.

BARK: Rough, very thick, reddish-brown, separated by irregular deep furrows, bark's internal layers consist of light colored corky material mixed within reddish-brown material.

BUDS: Shiny, reddish-brown, sharp-pointed, 6mm long (1).

LEAVES: Linear, flattened, blue-green petiolate needle (2), 2-3cm (1in) long, apex blunt, slightly grooved above with 2 white stomatal bands below, spirally-arranged on twig, petiole drops with needle, leaving small flat scar on twig (3).

CONES: Pendent, reddish-brown, oblong-cylindric, 4-10cm (2-4in) long, with three-lobed bracts (4), protruding from thin scale; ripens/sheds, Aug.-Sept. of first year.

ENEMIES: Diseases: *Phaeolus* (*Polyporus*) *schweinitzii*, *Armillaria* species, *Phellinus* (*Poria*) *weirii*, *Fomes annosus*, dwarf mistletoe, *Dasyscypha* canker, and *Rhabdocline* needle cast; Insects: Douglas-fir beetle, western budworm, and tussock moth; Fire: susceptible when young but resistant when old.