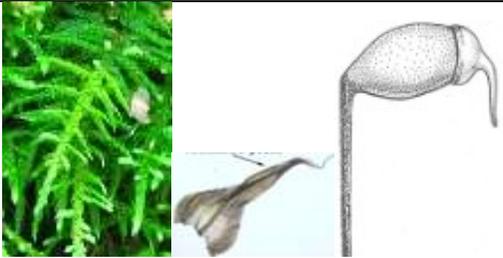
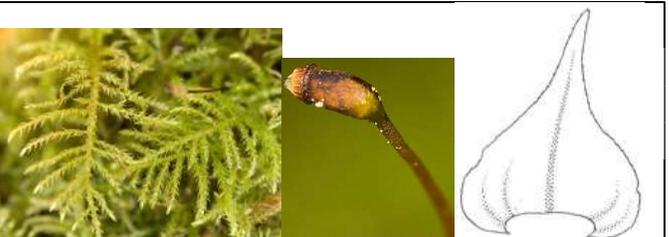


## Feather-like Regularly Pinnate Branching

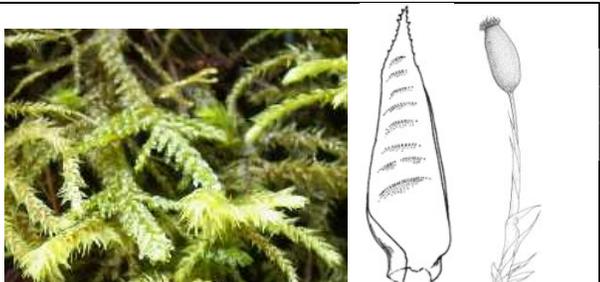
<b>Rough Moss</b>	<i>Claopodium crispifolium</i>	
Feather-like. <b>Dense weft of ascending smallish "feathers"</b> . Bright <b>yellow-green</b> .		
Leaves:	<b>Midrib strong, pointy tip</b>	
Sporoph	Abundant in late winter. Seta & sporangia red-brown.	
Habitat:	<b>Tree trunks</b> - Bigleaf Maple & also conifers. . Not too wet	

<b>Stair Step Moss</b> 	<i>Hylocomium splendens</i>	
Feather-like. <b>Stacked annual growth</b> stems.		
Leaves:		
Sporoph	Infrequent. Locally abundant	
Habitat:	<b>Terrestrial</b> & rotten logs. Moist forests.	

<b>Oregon Beaked Moss</b>	<i>Kindbergia oregana</i>	
Feather-like. Very neatly & <b>densely triangular</b> .		
Leaves:		
Sporoph	Frequent, from side of stem.	
Habitat:	<b>Terrestrial</b> Upland Forest & <b>tree bases</b> . Not particularly wet	

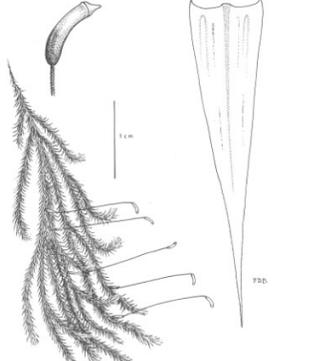
<b>Slender Beaked Moss</b> 	<i>Kindbergia praelonga</i>	
Feather-like. More irregularly & <b>sparsely branched</b> .		
Leaves:		
Sporoph	Occasional. Similar to oregana.	
Habitat:	<b>Terrestrial</b> Riparian Forest. <b>Rotten logs</b> . <b>Wetter</b> & wider range of habitats.	

## Irregular Branching

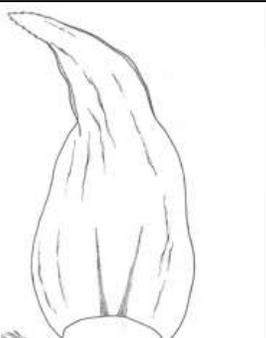
<b>Douglas' Neckera</b>	<i>Neckera douglasii</i>	
<b>Hanging mats arching out</b> from tree trunks or branches.		
Leaves:	<b>Strongly transversely wavy</b> . Tips pointed.	
Sporoph	Common. Stalks short, capsules upright. Side of stem.	
Habitat:	<b>Tree trunks</b> - Vine Maples & conifers.	

<b>Lyall's Bristle Moss</b>	Orthotrichum lyellii	 
<b>Loose open tufts &amp; mats. Olive-green</b>		
Leaves:		
Sporoph	Frequent.	
Habitat:	<b>Tree trunks &amp; branches. Mostly alder &amp; maple.</b> Some conifers.	

<b>Golden Short-Capsuled Moss</b>	Brachythecium frigidum	  
<b>Stems sprawl evenly, neatly. Green, soft, shiny. Torpedo-shaped, often white tipped.</b> Large & difficult genus.		
Leaves:	Lance-shaped, sharply pointed, pleated.	
Sporoph	Common, red-brown, horizontal.	
Habitat:	<b>Tree bases &amp; Logs,</b> forest-floor	

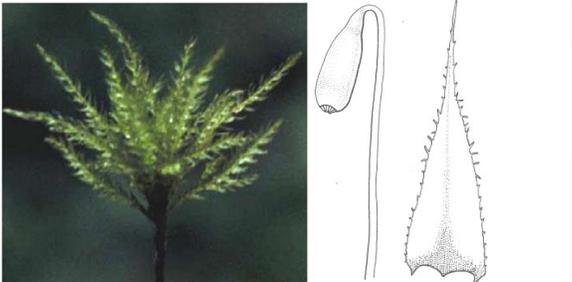
<b>Yellow Moss</b>	Homalothecium fulgescens	 
Extensive <b>interwoven mats, more chaotic w/ some curl. Yellowish.</b> Torpedo-shaped.		
Leaves:	Strongly pleated. Midrib. Long, thin	
Sporoph	Frequent, suberect.	
Habitat:	<b>Trunks, esp. Bigleaf Maple.</b>	

<b>Lanky Moss</b>	Rhytidiadelphus loreus	 
<b>Loose mats. Reddish stems</b>		
Leaves:	<b>Long, slender point</b> (easily <b>visible to naked eye</b> )	
Sporoph	Occasional. Side of stem. Cylindrical, asymmetric	
Habitat:	<b>Dominant groundcover &amp; base of trees.</b>	

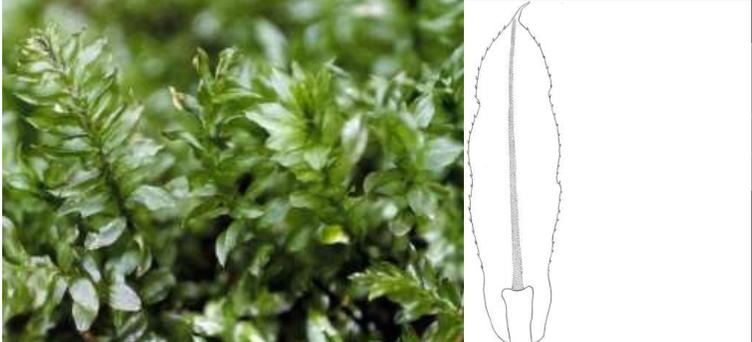
<b>Pipecleaner Moss</b>	Rhytidiopsis robusta	 
<b>Few branches. Yellow-green to pale green. Stems w/ filaments.</b> Large pure mats. Soft feel.		
Leaves:	Strongly curved. Logitudinal pleats. Midrib double.	
Sporoph	Rare,	
Ecology:	<b>Terrestrial. Subalpine forests.</b> Common moss at 2000' to 4000'	

# Tree or Shrub-like

<b>Juniper Haircap Moss</b>		Polytrichum juniperinum	
<b>Tufts of bluish-green unbranched shoots</b>			
Leaves:	Short, <b>reddish hair points</b> .		
Sporoph	4 angled capsules. Capsules upright.		
Habitat:	<b>Terrestrial</b> (disturbed mineral soils). Dry & exposed. Common.		

<b>Palm Tree Moss</b> 		Leucolepis acanthoneura	
<b>Tiny palm trees</b>			
Leaves:	Toothed. White triangular pinnate leaves on lower stem.		
Sporoph	Frequent. Capsules hanging down		
Habitat:	<b>Terrestrial &amp; rotten logs</b> in wet areas.		

<b>Crane's Bill Moss</b>		Atrichum selwynii	
<b>Tree-like</b>			
Leaves:	<b>Undulate, teeth, midrib</b>		
Sporoph	Common, abundant. Reddish-brown		
Ecology:	<b>Terrestrial</b> .		

<b>Badge Moss</b>		Plagiomnium insigne	
<b>Shrub-like. Leaves somewhat opposite each other all along stem. Large mats.</b> Separate M & F			
Leaves:	Oval, sharp point, toothed.		
Sporoph	Frequent. Several in cluster on shoot.		
Ecology:	<b>Terrestrial</b> , dry.		

<b>Fan Moss</b> 		Rhizomnium glabrescens	
<b>Shrub-like</b>			
Male: rosette of leaves at tip of stem. Female: More leaves on stem with capsule			
Leaves:	<b>Shiny, oval, translucent.</b> midrib strong.		
Sporoph	Frequent. Sporophyte hangs down.		
Ecology:	<b>Rotten logs and humus</b> , wet habitats.		

<b>Magnificent Moss</b>	Plagiomnium venustum	
-------------------------	----------------------	--

<b>Shrub-like. Short whorl of leaves.</b> Loose to dense mats.		
Leaves:	<b>Sharply toothed. Egg-shaped w/midrib.</b>	
Sporoph	Common. 1-4 per plant. Hanging	
Ecology:	<b>Terrestrial</b> , rotting logs & lower tree trunks.	

<b>Long Rock Moss</b>	Racomitrium elongatum	
<b>Yellowish mats</b> or rounded <b>tufts</b> . Twisted hairy		
Leaves:	Lance-shaped ending in a short, clear bristle-tip.	
Sporoph	Occasional	
Ecology:	<b>Terrestrial. Dry, sandy soil &amp; rock.</b> Roof tops, roadsides, along roads.	

<b>White-toothed Peat Moss</b>	Sphagnum girgensohnii	
Branches occur in clusters, branches sticking out or hanging down. Top a compact head of youngest branches.		
Leaves:		
Ecology:	Woodland floor.	

## Grass-like

<b>Curly Heron's-Bill Moss</b>	Dicranum fuscescens	
<b>Grass-like tufts, olive-green. Tangled looking</b>		
Leaves:	Loosely upright & more or less <b>curved to 1 side.</b>	
Sporoph	Frequent.	
Ecology:	<b>Tree trunks &amp; logs.</b>	

<b>Broom Moss</b>	Dicranum scoparium	
<b>Grass-like tufts, bright green. Distinctly curving to one side.</b>		
Leaves:	Upright & definitely <b>curved to 1 side</b>	
Sporoph.	Common	
Ecology:	<b>Terrestrial, rotten logs.</b> Common	

<b>Broken – leaf Moss</b>		Dicranum tauricum	
<b>Grass-like tight tufts/mounds</b> , spongy.			
Leaves:	Rigid, straight leaves with very <b>brittle tips that break off</b> on a finger brushed over the mound surface.		
Ecology:	<b>Rotting logs</b> . Also on living trees & tree stumps,		

## String like mats

<b>Waxy-leaved Cotton Moss</b> 		Plagiothecium undulatum (Buckiella undulata)	
<b>Worm-like flattened mats</b> . Pale <b>whitish green</b> .			
Leaves:			
Sporoph	Occasional		
Ecology:	<b>Terrestrial &amp; rotten logs</b> in wet areas.		

## Draping, Hanging

<b>Cat-tail Moss</b>		Isoetecium stoloniferum	
<b>Long thread-like, hanging from trees</b> . Variable.			
Leaves:	Midrib well developed. Sharply toothed apex, elliptic & variably sharp-pointed		
Sporoph	Abundant		
Ecology:	<b>Tree trunks &amp; vertical boulder faces</b> . Most common & most variable species		



<b>Coiled-Leaf Moss</b>		Hypnum circinale	
<b>Hanging mats</b> . <b>Tiny, braided, chain-like</b> .			
Leaves:	Leaf points long, curved (sickle-shaped), many small teeth		
Ecology:	<b>Douglas fir trunks &amp; terrestrial</b> .		

# Liverworts

<b>Tree-Ruffle Liverwort</b>	<i>Porella navicularis</i>	
Descending mat strongly <b>arching out</b> from trunk. <b>Pinnately branched.</b> Dark-green.		
Leaves:	Overlapping like reversed shingles	
Ecology:	<b>Tree trunks &amp; branches</b>	

<b>Yellow-Ladle Liverwort</b>	<i>Scapania bolanderi</i>	
Descending mats or cushions -- <b>coarse granule appearance.</b> <b>Little branched.</b>		
Leaves:	In two ranks, toothed at end of a scallop-shaped leaf.	
Ecology:	<b>Tree trunks, logs.</b>	

<b>Cedar-Shake Liverwort</b>	<i>Plagiochila porelloides</i>	
Creeping to ascending mats		
Leaves:	Oval, overlapping like <b>shingles</b> & with their <b>edges strongly bent backward</b>	
Ecology:	<b>Tree trunks, logs, rocks, cliff-faces.</b>	

<b>Snake Liverwort</b> 💧	<i>Conocephalum conicum</i>	
Thalloid, <b>flattened, ribbon-like.</b> Pleasant <b>odor.</b>		
Leaves:	<b>Hexagonal markings</b> , each w/ central dot.	
Ecology:	Terrestrial. <b>Moist, inorganic soils.</b>	

<b>Ring Pellia</b> 💧	<i>Pellia neesiana</i>	
Thalloid, <b>flattened, ribbon-like.</b> Dark green		
Leaves:	Midrib well developed. Wavy edges.	
Ecology:	Terrestrial. <b>Moist inorganic soils</b> (stream banks, lake-shores, swampy areas.)	

<b>Name</b>	Science	No
Description		
Leaves:		
Ecology:		

<b>Name</b>	Science	No
Description		
Leaves:		
Ecology:		

<b>Name</b>	Science	No
Description		
Leaves:		
Ecology:		

<b>Name</b>	Science	No
Description		
Leaves:		
Ecology:		

<b>Name</b>	Science	No
Description		
Leaves:		
Ecology:		

<b>Name</b>	Science	No
Description		
Leaves:		
Ecology:		