

Stemphora etc.

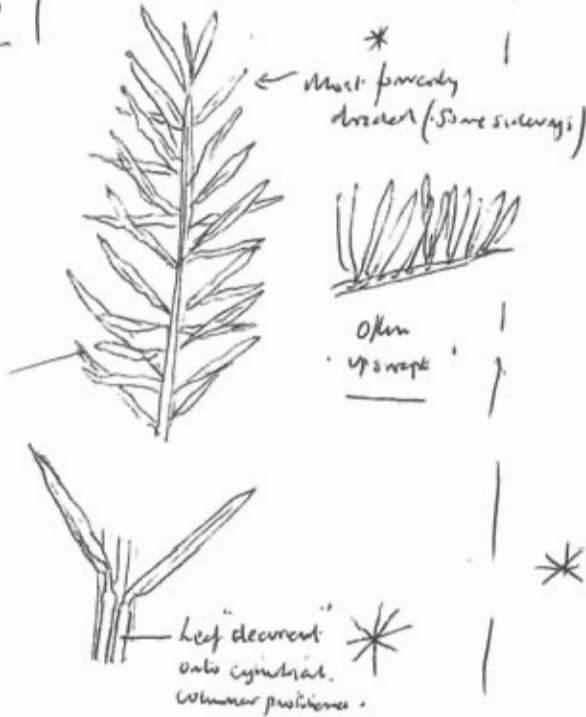
Note: There are dozens of other taxa, some of which may be seen only in gardens, estate or arboreta. (esp spruces, firs, cypresses)

Asunderline Note Junipers and Yews do not have fruits that can really be called 'cones' (arils) ~ so gymnosperms is better term (and includes Ginkgo)

Not in taxonomic order ~ grouped according to similarity.

Larix Hybrid difficult *

Yew

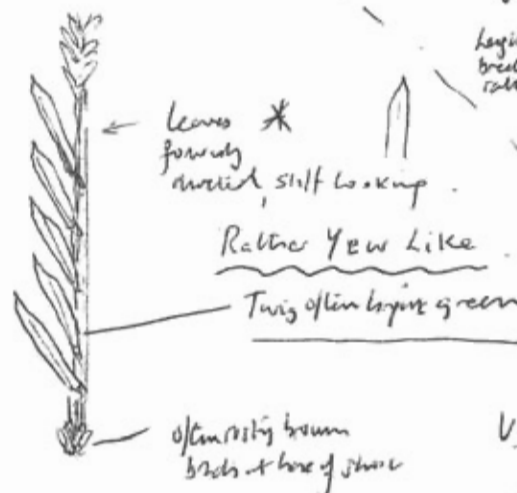


* Most probably broader (Some sideways)

Open upwards

Leaf decurrent into cylindrical whorl positions *

C coast Redwood



* Leaves forward, needle, stiff looking

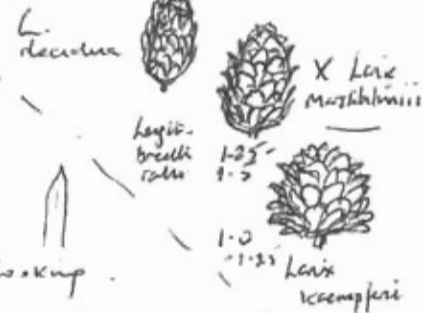
Rather Yew Like
Twigs often bright green

often rusty brown bracts at base of shoot

* Leaves v. dark shiny green, leathery & complement (in one plane)

Sequoia sempervirens

Cones: Larix decidua



longitudinal bracts

1-2.5
1-2

1-2
1-2.5

V. dark shiny green *

Dawn Redwood & Swamp Cypress pale green & delicate

Taxus baccata

(Chinese & Japanese Yews might be more like some)



* Delicate short bearded different levels

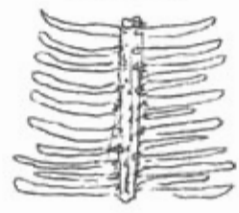
Tsuga heterophylla

Western Hemlock

(? & Hemlock similar)

Silver/Grand Fir

Cones medium sized
Bracts heavily pronounced in A. Young tree
Buds small & egg shaped
Not large & pointed as in Douglas



Older leaves
* Emarginate tip



Base against light

Matrix tree
Buds small, round topped



leaves curved

Young trees have leaves flat & complement (in one plane)

Noble fir

(easier to separate)



Swamp

V. large cones (20-25 cm x c 7m)
Needles v. short & v. blue *

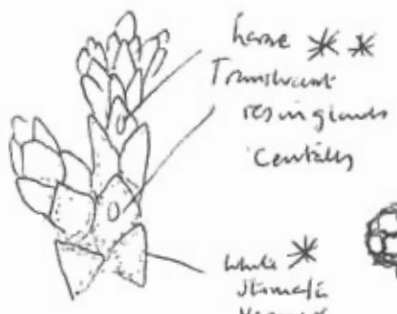
Abies procera (easier)

Abies alba / gramin
(difficult to separate)

* Abies gramin leaves are longer & tend to smell more strongly (of citrus) / also v. different lengths *

Cypresses, Red Cedars, Hiba

Lawson's Cypress



Smells aromatic +

Macrocarpa



Cone

Western Red Cedar



Sometimes many small translucent resin glands visible (on side leaves as well)

Stays white & clearly demarcated + triangular plates of staminate

(dark green wood)



Cone

Smells * strongly fruity

Chamaecyparis lawsoniana

"Leylandii"



from the workshop

Dark green both sides no visible white powdery staminate

* bark can be grey? with staminate

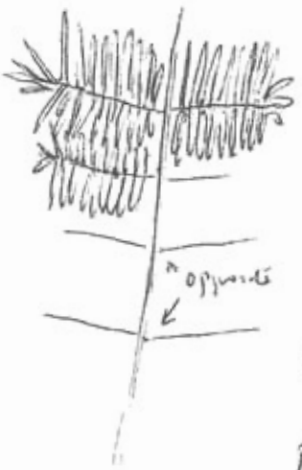
Thuja plicata

* White staminate = permanent plate



V. permanent plate

Dawn Redwood



Stems ± opposite

Leaves * Complanate (in one plane)

Swampy cypress



Alternate

Hiba

Thujopsis dolabrata

Taxodium distichum

Pale green & delicate, not looking dark & shiny (like Swampy cypress, not like Dawn redwood)

Leaves pale green & delicate like Dawn Redwood.

But stems usually alternate *

Leaves shorter & not complanate * (i.e. not in one plane) - but they look

Melaleuca glyptostrobilus

Wollybriar

Leptospermum sibiricum



V. large tree!

Small tree

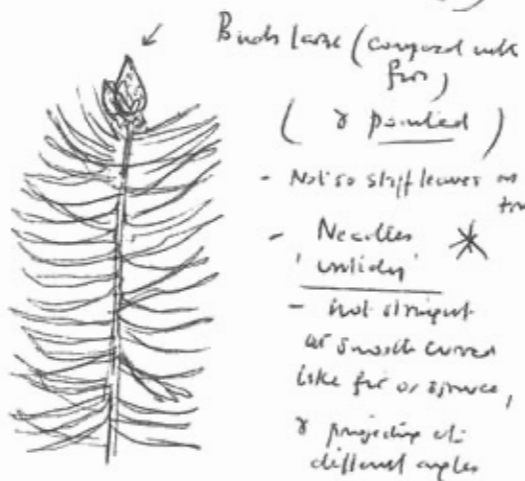
Cryptomeria japonica

Fragrant red cedar



Cones entirely spines (5-6 curved spines on each scale)

Douglas fir

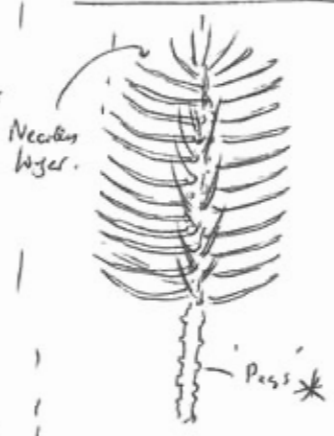


- Not so stiff leaves as in true fir
- Needles * 'unilateral'
- Not straight at 50% curve like fir or spruce, & projecting at different angles

- Young maximum trees have bark which peels off in small plates
- Large trees have cankered or barked bark
- Foliage * 'unilaterally hanging down'
- Often v. tall
- Smells strongly 'fruity' *

Pseudotsuga menziesii

Sitka spruce



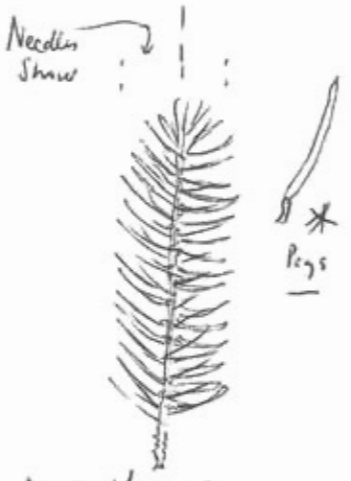
Picea sitchensis

- Foliage longer than Norway
- Much darker green above, blue below
- Stiffer, so feels much stiffer



- Cones soft
- Smaller than Norway spruce *

Norway spruce



Cone layer (Soft)

Note Xmas tree shape at tip can also be seen in true firs (Silver No. 1, etc)

- Needles (foliage) shorter, paler green, less rigidly curved, (cf Sitka) not v. blue below
- Softer & less rigid so shapes top

NB Many more spruces & pines are occasionally planted in GB

Pinus

<p><u>P. cont.</u></p> <p>v short dark green</p>	<p><u>P. sylv.</u></p> <p>short some green</p>	<p><u>P. miza</u></p> <p>long dark green</p>
<p><u>Cone scale</u></p>	<p>Smaller</p>	<p>larger</p>
<p>(cones v similar other than size)</p>	<p><u>P. strobus & P. peuce</u></p> <p>3 needled</p>	<p><u>Pinus</u></p> <p>5 needled</p>
<p><u>P. resinosa</u></p> <p>Large</p>	<p>But smaller than P. pinaster, which also 5/need, on tree larger</p>	<p>(2-3 yr)</p>

Assignment