

# Washington Flora Checklist

## A checklist of the Vascular Plants of Washington State Hosted by the University of Washington Herbarium

### Family: Pinaceae

21 terminal taxa (species, subspecies, and varieties).

The Washington Flora Checklist aims to be a complete list of the native and naturalized vascular plants of Washington State, with current classifications, nomenclature and synonymy.

#### Taxa included in the checklist:

- Native taxa whether extant, extirpated, or extinct.
- Exotic taxa that are naturalized, escaped from cultivation, or persisting wild.
- Waifs (e.g., ballast plants, escaped crop plants) and other scarcely collected exotics.
- Interspecific hybrids that are frequent or self-maintaining.
- Some unnamed taxa in the process of being described.

Family classifications follow [APG IV](#) for angiosperms, PPG I (J. Syst. Evol. 54:563-603. 2016.) for pteridophytes, and Christenhusz et al. (Phytotaxa 19:55-70. 2011.) for gymnosperms, with a few exceptions. Nomenclature and synonymy at the rank of genus and below follows the [2nd Edition of the Flora of the Pacific Northwest](#) except where superseded by new information.

Accepted names are indicated with **blue type**, synonyms with **gray type**.

Native species and infraspecies are marked with **bold-face type**.

\*Non-native and introduced taxa are preceded by an asterisk.

**Please note:** This is a working checklist, continuously updated. Use it at your discretion.

Created from the Washington Flora Checklist database on November 26th, 2024 at 5:49pm PT.

Available online at <https://burkeherbarium.org/waflora-new/>

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# Gymnosperms:

## Pinaceae [FNA2, HC, HC2] Pine Family

### **Abies** [FNA2, HC, HC2]

Gard. Dict. Abr., ed. 4. vol. 1. 1754.  
fir

### **Abies amabilis** Douglas ex J. Forbes [FNA2, HC, HC2]

Pinet. Woburn. 125, plate 44. 1839.  
Pacific silver fir

### **Abies grandis** (Douglas ex D. Don) Lindl. [FNA2, HC, HC2]

Penny Cycl. 1: 30. 1833.  
grand fir

*Pinus grandis* Douglas ex D. Don

FNA2: "Abies grandis is rather uniform morphologically and chemically. At its southern limit in southern Oregon and northern California, it introgresses with *A. concolor* (J.L. Hamrick and W.J. Libby 1972; E.Zavarin et al. 1975; D.B. Zobel 1973). In the area of introgression, specimens in lower, wetter habitats are best assigned to *A. grandis*; those in higher, drier habitats, to *A. concolor*. Others are best considered to be *A. concolor*  $\hat{=}$  *grandis*."

### **Abies lasiocarpa** (Hook.) Nutt. [FNA2, HC, HC2]

N. Amer. Sylv. 3: 138. 1849.  
alpine fir, subalpine fir

*Abies balsamea* (L.) Mill. ssp. *lasiocarpa* (Hook.) B. Boivin  
*Abies balsamea* (L.) Mill. var. *fallax* (Engelm.) B. Boivin  
*Pinus lasiocarpa* Hook.

FNA2: "The only unique populations in this species come from coastal Alaska (A. S. Harris 1965; C. J. Heusser 1954). They are found at lower elevations (0--900 m) and appear to be isolated with no reported introgression between them and the coastal mountain populations. The population on the Prince of Wales Island has distinct terpene patterns and needs morphological and developmental studies to see if these patterns contrast with neighboring populations. Through central British Columbia and northern Washington, *Abies lasiocarpa* introgresses with *A. bifolia*. These trees may have morphologic features resembling either species and may have intermediate terpene patterns; they are best classified as interior subalpine fir (*A. bifolia*  $\hat{=}$  *lasiocarpa*). At the southern end of its range, *A. lasiocarpa* possibly hybridizes with *A. procera* (R.S. Hunt and E.von Rudloff 1979). *Abies lasiocarpa* shares with *A. procera* a red periderm, crystals in the ray parenchyma (R.W. Kennedy et al. 1968), and reflexed tips of the bracts, features not shared with *A. bifolia*. *Abies lasiocarpa* usually exists in small stands at high elevations and is not often observed. Its differences in comparison to *A. bifolia* have prompted studies (W.H. Parker et al. 1979) to see if it is *A. bifolia* introgressed with the sympatric *A. amabilis*. *Abies lasiocarpa* and *A. amabilis*, however, are separated by many morphologic features, and no hybrids have been found (W.H. Parker et al. 1979)."

### **ssp. bifolia** (A. Murray bis) Silba [HC2]

J. Int. Conifer Preserv. Soc. 15(2): 42. 2008.  
Rocky Mountain subalpine fir

*Abies bifolia* A. Murray bis [FNA2]

### **ssp. lasiocarpa** [HC2]

subalpine fir

### **Abies procera** Rehder [FNA2, HC, HC2]

Rhodora. 42: 522. 1940.  
noble fir

*Abies nobilis* (Douglas ex D. Don) Lindl.

**Larix** [FNA2, HC, HC2]

Gard. Dict. Abr., ed. 4. vol. 2. 1754.  
larch

**Larix lyallii** Parl. [FNA2, HC, HC2]

Conif. Nov. 3. 1863.  
subalpine larch

FNA2: "Larix lyallii and L. occidentalis ( Larix sect. Multiseriales ) are similar morphologically and have similar geographic ranges. Just how closely the two species are related has not been determined, but they probably originated from a common ancestor resembling L. potaninii Batalin. Although the geographic ranges of the two species overlap considerably, elevational differences of 150 to 300m usually separate them. Some morphologically intermediate specimens have been collected from Washington and Montana. Because of its restricted distribution and growth at timberline, alpine larch has no commercial importance; it is often dwarfed and misshapen."

**Larix lyallii** Parl. × **Larix occidentalis** Nutt. [HC2]

**Larix occidentalis** Nutt. [FNA2, HC, HC2]

N. Amer. Sylv. 3: 143, plate 120. 1849.  
western larch

FNA2: "Western larch, when forest grown, is usually branch-free over most of its height. This is one of the most valuable timber-producing species in western North America. Its wood is made into framing, railway ties, pilings, exterior and interior finishing work, and pulp. In some localities it is the preferred firewood."

**Picea** [FNA2, HC, HC2]

Fl. Berlin. 2: 794. 1824.  
spruce

**Picea xalbertiana** S. Br. [HC2]

interior spruce

*Picea glauca* (Moench) Voss, misapplied

**Picea engelmannii** Engelm. [FNA2, HC, HC2]

Trans. Acad. Sci. St. Louis. 2: 212. 1863.  
Engelmann's spruce

**var. engelmannii** [FNA2, HC2]

Trans. Acad. Sci. St. Louis. 2: 212. 1863.  
Engelmann spruce

*Picea engelmannii* Engelm. var. *glabra* Goodman [HC]

**Picea sitchensis** (Bong.) Carrière [FNA2, HC, HC2]

Traité Gén. Conif. 260. 1855.  
Sitka spruce

*Abies falcata* Raf.

*Abies menziesii* (Douglas ex D. Don) Lindl.

*Picea falcata* (Raf.) Suringar

*Picea menziesii* (Douglas ex D. Don) Carrière

*Pinus menziesii* Douglas ex D. Don

**Pinus** [FNA2, HC, HC2]

Sp. Pl. 2: 1000. ; Gen. Pl. ed. 5. 1753; Gen. Pl. ed. 5, 434, 1754.  
pine

**Pinus albicaulis** Engelm. [FNA2, HC, HC2]

Trans. Acad. Sci. St. Louis. 2: 209. 1863.  
white-bark pine

*Apinus albicaulis* (Engelm.) Rydb.

**Pinus contorta** Douglas ex Loudon [FNA2, HC, HC2]

Arbor. Frutic. Brit. 4: 2292, figs. 2210, 2211. 1838.

lodgepole pine

**var. *contorta*** [FNA2, HC, HC2]

Arbor. Frutic. Brit. 4: 2292, figs. 2210, 2211. 1838.  
shore pine

**var. *latifolia*** Engelm. [FNA2, HC, HC2]

Botany (Fortieth Parallel). 331. 1871.  
lodgepole pine

*Pinus contorta* Douglas ex Loudon ssp. *latifolia* (Engelm.) Critchfield  
*Pinus divaricata* (Aiton) Sudw. var. *hendersonii* (Lemmon) B. Boivin  
*Pinus divaricata* (Aiton) Sudw. var. *latifolia* (Engelm. ex S. Watson) B. Boivin

FNA2: "Pinus contorta var. latifolia is fire successional. It is the most wide-ranging and commercially utilized variety. Its poor self-pruning character makes it less desirable for lumber but adequate for mine timbers, fences, and pulpwood."

***Pinus monticola*** Douglas ex D. Don [FNA2, HC, HC2]

Descr. Pinus [ed. 3]. 2: unnumbered page between 144 and 145. 1832.  
western white pine

*Pinus strobus* L. var. *monticola* (Douglas ex D. Don) Nutt.  
*Strobus monticola* (Douglas ex D. Don) Rydb.

***Pinus ponderosa*** Douglas ex P. Lawson & C. Lawson [FNA2, HC, HC2]

Agric. Man. 354. 1836.  
ponderosa pine, western yellow pine

**var. *ponderosa*** [FNA2, HC2]

Agric. Man. 354. 1836.  
ponderosa pine, western yellow pine

*Pinus beardsleyi* A. Murray  
*Pinus benthamiana* Hartw.  
*Pinus washoensis* H. Mason & Stockw. [FNA2]

***Pseudotsuga*** [FNA2, HC, HC2]

Traité Gén. Conif., ed. 2. 256. 1867.  
Douglas fir, Oregon pine

***Pseudotsuga menziesii*** (Mirb.) Franco [FNA2, HC, HC2]

Bol. Soc. Brot. ser. 2, 24: 74. 1950.  
Douglas-fir

*Abies menziesii* Mirb.  
*Abies mucronata* Raf.  
*Abies taxifolia* Poir.  
*Pinus taxifolia* Lamb.  
*Pseudotsuga douglasii* (Lindl.) Carrière  
*Pseudotsuga mucronata* (Raf.) Sudw.  
*Pseudotsuga taxifolia* (Lamb.) Britton

**var. *glauca*** (Mayr) Franco [FNA2, HC, HC2]

Bol. Soc. Brot. ser. 2, 24: 77. 1950.  
pino real Colorado, Rocky Mountain Douglas-fir

*Pseudotsuga douglasii* (Lindl.) Carrière var. *glauca* Mayr  
*Pseudotsuga flahaultii* Flous  
*Pseudotsuga menziesii* (Mirb.) Franco var. *flahaultii* (Flous) Silba  
*Pseudotsuga taxifolia* (Lamb.) Britton var. *glauca* (Beissn.) Sudw.

**var. *menziesii*** [FNA2, HC, HC2]

Bol. Soc. Brot. ser. 2, 24: 74. 1950.  
coast Douglas-fir

***Tsuga*** [FNA2, HC, HC2]

hemlock

***Tsuga heterophylla*** (Raf.) Sarg. [FNA2, HC, HC2]

Silva. 12: 73, plate 605. 1898.

western hemlock

*Abies heterophylla* Raf.

FNA2: "*Tsuga* × *jeffreyi* (Henry) Henry was described from southwestern British Columbia and western Washington as a hybrid between *T. heterophylla* and *T. mertensiana*. Hybridization is rare, if it occurs at all, and it is therefore of little consequence (R.J. Taylor 1972). At the upper elevational limits of its distribution and under stressful conditions, *T. heterophylla* tends to resemble *T. mertensiana*, e.g., leaves are less strictly 2-ranked and stomatal bands on the abaxial leaf surfaces are less conspicuous than at lower elevations."

***Tsuga × jeffreyi*** (Henry) Henry [FNA2, HC2]

Proc. Roy. Irish Acad. 34: 55. 1919.

FNA2: "*Tsuga* × *jeffreyi* (Henry) Henry was described from southwestern British Columbia and western Washington as a hybrid between *T. heterophylla* and *T. mertensiana*. Hybridization is rare, if it occurs at all, and it is therefore of little consequence (R.J. Taylor 1972). At the upper elevational limits of its distribution and under stressful conditions, *T. heterophylla* tends to resemble *T. mertensiana*, e.g., leaves are less strictly 2-ranked and stomatal bands on the abaxial leaf surfaces are less conspicuous than at lower elevations."

***Tsuga mertensiana*** (Bong.) Carrière [FNA2, HC, HC2]

Traité Gén. Conif., ed. 2. 250. 1867.

mountain hemlock

*Abies hookeriana* A. Murray bis

*Abies mertensiana* Bong.

*Hesperopeuce mertensiana* (Bong.) Rydb.

*Picea hookeriana* (A. Murray bis) Bertrand

*Tsuga crassifolia* Flous

FNA2: "M. Van Campo-Duplan and H. Gausson (1948) postulated that this taxon originated by hybridization between *Picea* and *Tsuga*. Although this is unlikely, some characteristics such as leaf arrangement and shape, phenolic chemistry, and pollen grain structure lend some support for this hypothesis."