

Species Datasheet

Datasheet No. G-007.005.012
(family.genus.species)

1.Taxon:

Species: *Pinus lambertiana* Douglas

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms:*Pinus lambertiana* var. *martirensis* Silba, *P. lambertiana* subsp. *martirensis* (Silba) Silba, *P. lambertiana* var. *minor* Lemmon, *P. lambertiana* var. *purpurea* Lemmon, *Strobis lambertiana* (Douglas) Moldenke

3.Systematic Position:

Christenhusz *et al.* (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Pinales Gorozh.
- Family: Pinaceae Spreng.
- Genus: *Pinus* L.
- Species: *P.lambertiana* Douglas

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

Tribus: Abietineae Eichler

Genus: *Pinus* L.

Species: *P. lambertiana* Douglas

4.Distribution:

Global: In the western United States in mountains of Oregon and California and Baja California in northwestern Mexico

India:

5.Indigenous/Exotic/Endemic;Cultivated/Wild:

6.Threat Status:

IUCN: Least concern

BSI:

7.Habit and Habitat:Evergreentree,this pine is common in the mixed and varied conifer forests.

8.LifeForm:Phanerophytes

9.EconomicImportance:Timber

10. Probable Progenitor of:

11.DNA

C-value

Methodology

2C (34.70 pg)¹²

Feulgen microdensitometry¹²

2C (35.20 pg)¹³

Feulgen microdensitometry¹³

2C (59.10 pg)⁹⁰

Feulgen microdensitometry⁹⁰

2C (87.70 pg)⁶⁸

Feulgen microdensitometry⁶⁸

12.Basic chromosome number(s): $x=12$ ^{12, 35, 49}

13. Zygotic chromosome number(s): $2n=24$ ^{12, 49, 75}

14. Gametic chromosome number(s): $n=$

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):

Image file

16.Ploidylevel:Diploid^{12, 49, 75}

Image file

17.Agametoploidy:

18.Nature of polyploidy (auto, segmental, allo, autoallo):

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):

21.Somatic chromosomes:^{49, 75}

KaryotypeMedian Shortest pair submedian^{49, 75}

Chromosome sizeLarge^{49, 75}

NOR chromosome(s)6⁷⁵

Degree of asymmetry Symmetrical^{49, 75}

Image file

22. Banding pattern(s):

Image file

23.Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization:

Image file

24.Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26.Chromosome associations:

Female meiosis

Male meiosis

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc.):