

Species Datasheet

Datasheet No. G-007.005.025
(family.genus.species)

1.Taxon:

Species: *Pinus virginiana* Mill.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. **Synonyms:** *Pinus inops* Aiton, *P. ruthenica* Carriere, *P. turbinata* Bosc ex Loudon

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.virginiana* Mill.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

Tribus: Abietineae Eichler

Genus: *Pinus* L.

Species: *P. virginiana* Mill.

4.Distribution:

Global: Native to United States

India:

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

6.Threat Status:

IUCN: Least concern

BSI:

7.Habit and Habitat: Evergreen tree (9-18 m tall), the climate is humid and cool in most of its range and snowfall can be abundant at least in the northern parts. This species is naturally restricted to poorer soils and avoids calcareous substrates.

8.Life Form:Phanerophytes

9.Economic Importance:It provides rough lumber and pulpwood

10. Probable Progenitor of:

11.DNA

C-value

Methodology

2C (33.20 pg) ⁶³

Feulgen microdensitometry ⁶³

2C (42.30 pg) ⁹⁰

Feulgen microdensitometry ⁹⁰

2C (40.70 pg) ⁹⁰

Flow cytometry ⁹⁰

12.Basic chromosome number(s): $x=12$ ^{35, 23, 74, 73}

13. Zygotic chromosome number(s): $2n=24$ ^{23, 73, 74}

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

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

Image file

16.Ploidy level:Diploid ^{23, 73, 74}

Image file

17.Agametoploidy:

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

19.Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

21. Somatic chromosomes:^{23, 74}

Karyotype Median shortest pair submedian^{23, 74}

Chromosome size Large^{23, 74}

NOR chromosome(s)

Degree of asymmetry Symmetrical^{23, 74}

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.):