

Species Datasheet

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Datasheet No. G-011.010.002
(family.genus.species)

1.Taxon:

Species:*Taxodiumhuegelii* C.Lawson

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms:*Cupressinnatamexicana* J. Nelson,*C.mexicana* (Carriere) J.Nelson,*Taxodiumdistichum* var. *mexicanum* (Carrière) Gordon,*T.distichum* var. *mucronatum* (Ten.) A.Henry, *T.mexicanum*Carriere, *T.montezumae*Decne.,*T.mucronatum* Ten., *T.pinnatum*Carrière, *T.virens*Beissn.

3. Systematic Position:

Christenhuszet al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: PinidaeCronquist
- Order: Cupressales Link
- Family: Cupressaceae Gray
- Genus: *Taxodium*Richard
- Species: *T. huegelii*C. Lawson

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

Tribus: TaxodieaeEichler

Genus: *Taxodium*Richard

Species: *T. huegelii*C. Lawson

4.Distribution:

Global:Native of Guatemala &Maxico

India: Uttar Pradesh, Uttarakhand, Sikkim

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Evergreen or semi-evergreen tree

8.Life Form:Phanerophytes

9.Economic Importance:Ornamental, medicinal

10. Probable Progenitor of:

11.DNA

C-value Methodology

2C (17.48 pg) ⁹Feulgenmicrodensitometry⁹

2C (18.10 pg)¹¹ Flow cytometry¹¹

12.Basic chromosome number(s): $x=11$ ^{5, 8, 9}

13. Zygotic chromosome number(s): $2n=22$ ^{8, 9}

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

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

Image file

16.Ploidy level:Diploid^{8, 9}

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:⁸

Karyotype Median, submedian one pair subterminal⁸

Chromosome size Large⁸

NOR chromosome(s) 2⁸

Degree of asymmetry Symmetrical⁸

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.):