Genus Datasheet

Datasheet No. G-011.010 (Family.Genus)

DBT- Network Programme

1. Genus: *Taxodium* Richard

2. Systematic Position:

Christenhusz *et al.* (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Cupressales Link
- Family: Cupressaceae Gray
- Genus: *Taxodium* Richard

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus: TaxodieaeEichler
Genus: *Taxodium* Richard

3. Species:

Global: 2

India: 2

4. Taxonomic riddles: 12, 13, 14

5. Distribution:

Global: Alabama, Arkansas, Delaware, Florida, Georgia, Illinois, Indiana, Kentucky, Louisiana, Guatemala, Maxico Maryland, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, S Texas and Virginia

India: Uttar Pradesh, Uttarakhand, Sikkim

6. Habit and Habitat: Large trees, reaching 100–150 ft (30–46 m) tall and 2–3 m (6.6–9.8 ft) (exceptionally 11 m or 36 ft) trunk diameter.Dominant in lowland river flood plains and swamps, mostly below 30 m but up to 530 m a.s.l., where it can form extensive forests of nearly pure stands on (seasonally) inundated fluvial sediment.

7.Economic Importance: The wood of *T.distichum* is soft, straight-grained and extremely rot resistant and therefore widely used in construction and building of houses, boats, river pilings and sidings, as well as shingles, flooring, garden furniture, greenhouses, cooperage, fencing and other uses for which durability is desirable, Ornamental

8. DNA content range: **Methodology**

2C (17.48 pg)[9]Feulgenmicrodensitometry[9]

2C (18.10-18.90 pg) [3, 11]Flow cytometry[3,11]

9. Basic chromosome number(s):x=11[2, 5, 7, 10]

10. Zygotic chromosome number(s):2n=22[2, 7, 8, 9, 10, 15]

1. Gametic chromosome number(s):n=

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/ Neocentric chromosomes):

13. Ploidy level: Diploid[2, 7, 8, 9, 10, 15]

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

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

16. Karyograms: 2, 7, 9, 10, 15

Meiosis:

GISH:

19.Phylogenetic relationship atChromosomal; DNAlevel:[1, 4, 6]

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: