

Species Datasheet

Datasheet No. A-098.001.008
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cyperus castaneus* Willd.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. **Synonyms:** *Cyperus castaneus* var. *brevimicronatus* Kük., *C. flavescens* var. *castaneus* (Willd.) Pursh, *Dichostylis castanea* (Willd.) Palla

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Clade: Commelinids
- Order: Poales Small
- Family: Cyperaceae Juss.
- Genus: *Cyperus* L.
- Species: *C. castaneus* Willd.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Glumaceae
Ordo: Cyperaceae Juss.
Genus: *Cyperus* L.
Species: *C. castaneus* Willd.

4. Distribution:

Global: Tropical Australia, Indo China, India, Malaysia, Nepal, and Sri Lanka

India: Peninsular India, Central and East Himalayas and Karnataka

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

6. Threat Status:

IUCN: Least Concern

BSI

7. **Habit and Habitat:** Herb. Found in seasonally flooded places

8. **Life Form:** Therophytes

9. **Economic Importance:**

10. **Probable Progenitor of:**

11. **DNA**

C-value Methodology:

12. Basic chromosome number(s): $x=8$ ¹⁷

13. Zygotic chromosome number(s): $2n=40$ ¹⁷

14. Gametic chromosome number(s): $n=40$ ^{7,8}

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

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16. Ploidy level: Euploidy¹⁷

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:

Karyotype: Mostly metacentric and sub-metacentric¹⁷

Chromosome size: Short size¹⁷

NOR chromosome(s): 2NOR¹⁷

Degree of asymmetry: Symmetrical

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):