

# Species Datasheet

Datasheet No. A-098.001.014  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Cyperus digitatus* Roxb.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

**2. Synonyms:** *Cyperus brachystachys* Nees ex Boeckeler, *C. digitatus* f. *contractior* Kük., *C. digitatus* var. *laxiflorus* L.K.Dai, *C. digitatus* var. *mexicanus* (Liebm.) Kük., *C. digitatus* var. *oatesii* (C.B.Clarke) Kük., *C. digitatus* var. *obtusifructus* Kük., *C. digitatus* var. *pingbienensis* L.K.Dai, *C. exaltatus* var. *oatesii* C.B.Clarke, *C. giganteus* Griseb., *C. glomeratus* Roxb. ex Arn., *C. mexicanus* Liebm., *C. neesii* Kunth, *C. oatesii* C.B.Clarke, *C. ornithopodioides* Delile, *C. raphiostachys* Humb. & Bonpl. ex Kunth, *C. spongiosovaginatatus* Boeckeler, *C. trinidadensis* Boeckeler, *C. tuberiferus* Steud., *C. venustus* Boeckeler, *C. wiestii* Steud., *C. xanthocomus* Link, *C. tuberiferus* Schrad.

## 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. digitatus* Roxb.

### Bentham and Hooker (1862)

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

## 4. Distribution:

**Global:** Bangladesh, Bhutan, India, Myanmar, Sri Lanka, Nepal, Pakistan, Mexico, Central America, South America and Africa

**India:** North West India to Eastern India

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

## 6. Threat Status:

IUCN

BSI

**7. Habit and Habitat:** Herb. Found in swamps or seasonally flooded areas, wet rice fields, ditches and river banks and also open grasslands

**8. Life Form:** Rhizomatous geophyte

## 9. Economic Importance:

## 10. Probable Progenitor of:

**11.DNA**

**C-valueMethodology:**

**12.Basic chromosome number(s):**

**13. Zygotic chromosome number(s):** $2n=108^{9,11,19}109^9$

**14. Gametic chromosome number(s):** $n=42,52,54^{2,3}$

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

Image file

**16.Ploidy level:**

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:**

**Karyotype:**

**Chromosome size:**Medium size<sup>11</sup>

**NOR chromosome(s):**

**Degree of asymmetry:**

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):**