

# Species Datasheet

Datasheet No. A-078.001.004  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Commelina caroliniana* Walter.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. **Synonyms:** *Commelina hasskarlii* C. B. Clarke.

## 3. Systematic position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Commelinales Mirb. ex Bercht. & J. Presl
- Family: Commelinaceae Mirb.
- Genus: *Commelina* L.
- Species: *C. caroliniana* Walter

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Coronarieae  
Ordo: Commelinaceae Mirb.  
Genus: *Commelina* L.  
Species: *C. caroliniana* Walter

## 4. Distribution:

**Global:** Bangladesh, East Himalaya, India, Nepal, and West Himalaya

**India:** Assam, Bihar, Maharashtra, Madhya Pradesh, Kerala, Sikkim, Uttar Pradesh

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

## 6. Threat Status:

**IUCN:** Least Concern

**BSI:**

7. **Habit and Habitat:** Herb; along the marshy places, riversides, margin of small seasonal pools

8. **Life Form:** Therophyte

9. **Economic Importance:**

10. **Probable Progenitor of:**

11. **DNA**

**C-value Methodology:**

**12. Basic chromosome number(s):**  $x=15^{29}$

**13. Zygotic chromosome number(s):**  $2n=84^{28}90^{9,29,32,55}$

**14. Gametic chromosome number(s):**  $n=15^{37}45^{29,31,55}$

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

Image file

**16. Ploidy level:**

Image file

**17. Agamete ploidy:**

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

**19. Genomic formula:**

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

**21. Somatic chromosomes:**

**Karyotype:**

**Chromosome size:**

**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:45II<sup>55</sup>**

Image file

**27.Chromosome distribution at anaphase I:45:45<sup>55</sup>**

**28. Genetic diversity:**

**Chromosomal level:**

Image file

**DNA level**

**29.Any other information (Apomixis; Inversion; Male sterility;Pollen grain mitosis;  
Pollen stainability;Translocations etc):**

Pollen fertility: 90%<sup>55</sup>