

# Final Species Datasheet (26/09/2016)

Datasheet No. A-078.001.009  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Commelina forskalaei* Vahl

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

## 2. Synonyms:

## 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. forskalaei* Vahl

### Bentham and Hooker (1862)

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

## 4. Distribution:

**Global:** Tropical Africa, India

**India:** Gujarat, Karnataka, Kerala, Maharashtra, Rajasthan, Tamil Nadu

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

## 6. Threat Status:

**IUCN:**

**BSI:**

## 7. Habit and Habitat: Herb, chiefly found in dry tracts, along the roadsides, among the grasslands

## 8. Life Form: Hemicryptophyte

## 9. Economic Importance:

## 10. Probable Progenitor of:

## 11. DNA

**C-value Methodology:**

**12. Basic chromosome number(s):**  $x=15^{29,54,69}$

**13. Zygotic chromosome number(s):**  $2n=30^{13,20,69}$

**14. Gametic chromosome number(s):**  $n=15^{13,15^{6,29,54}}$

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

Image file

**16. Ploidy level:** Diploid<sup>54,69</sup>

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:**  $(14m+6sm+10st)^{69}$

**Chromosome size:** Small size<sup>69</sup>

**NOR chromosome(s):**  $2NOR^{69}$

**Degree of asymmetry:**  $(2A\&2B)^{69}$

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; Translocations etc):**