

# Species Datasheet

Datasheet No. A-073.006.002  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species *Zephyranthes rosea* Lindl

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Zephyranthes rosea* var. *bifolia* (Aubl.) Herb.

## 3. Systematic Position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Amaryllidaceae J. St.-Hil.
- Genus: *Zephyranthes* Herb.
- Species: *Z. rosea* Lindl.

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Epigynae  
Ordo: Amaryllideae Dumort.  
Genus: *Zephyranthes* Herb.  
Species: *Z. rosea* Lindl.

## 4. Distribution:

**Global:** Native to Cuba

**India:** Naturalized in several parts of India

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

## 6. Threat Status:

**IUCN:**

**BSI:**

7. **Habit and Habitat:** Herb. Tropical Dry Forest

8. **Life Form:** Bulbous geophytes

9. **Economic Importance:** Ornamental and medicinal

10. **Probable Progenitor of:**

## 11. DNA

C- value

Methodology

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

13. **Zygotic chromosome number(s):**  $2n=12$ <sup>7</sup>

$2n=24$ <sup>5,6</sup>

14. **Gametic chromosome number(s):**

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

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16. **Ploidy level:** Tetraploid<sup>6</sup>

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:** Majority submetacentric chromosomes <sup>5,6</sup>

**Chromosome size:** Small to medium <sup>6</sup>

**NOR chromosome(s):**

**Degree of asymmetry:** Symmetrical <sup>6</sup>

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):**