

Species Datasheet

Datasheet No. A-076.018.006
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species *Phoenix pusilla* Gaertn.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Phoenix farinifera* Roxb., *P. zeylanica* Trimen, *Zelonops pusilla* (Gaertn.) Raf.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Clade: Commelinids
- Order: Arecales Bromhead
- Family: Arecaceae Bercht. & J. Presl
- Genus: *Phoenix* L.
- Species: *P. pusilla* Gaertn.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Calycinae
Ordo: Palmae Juss.
Genus: *Phoenix* L.
Species: *P. pusilla* Gaertn.

4. Distribution:

Global: India and Sri Lanka

India: Tamil Nadu and Kerala

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

6. Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:** Tree. Disturbed areas at low elevation.

8. **Life Form:** Phanerophytes

9. **Economic Importance:** Leaflets are used for woven products like bags, baskets, brooms; fruits are sweet and eaten. Stem pith is edible, source of starch.

10. **Probable Progenitor of:**

11. DNA

C- value

Methodology

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

13. **Zygotic chromosome number(s):** $2n=32$ ³⁴

$2n=36$ ³⁵

14. **Gametic chromosome number(s):** $n=18$ ³⁵

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

Image file

16. **Ploidy level:** Diploid³⁴

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 Majority metacentric and submetacentric chromosomes ³⁴

Chromosome size Very small to small ³⁴

NOR chromosome(s) 4 NOR ³⁴

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; Translocations etc):