

Species Datasheet CalU+SUK-Phase I

Datasheet No. A-028.025.005
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species: *Lemna perpusilla* Torr.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Hydrophace perpusilla* (Torr.) Lunell

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocot
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Araceae Juss.
- Genus: *Lemna* L.
- Species: *L. perpusilla* Torr.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Lemnaceae Gray
Genus: *Lemna* L.
Species: *L. perpusilla* Torr.

4. Distribution:

Global: India, Arkansas, District of Columbia, Illinois, Indiana, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Nebraska, New Jersey, New York, North Carolina, Ohio, Oklahoma, Pennsylvania, Québec, Rhode I., Tennessee, Texas, Vermont, Virginia, West Virginia, Wisconsin, Aruba, Bangladesh, Burundi, France, Hawaii, Iran, Korea, Lesser Sunda Is., Malaya, Netherlands Antilles, Sri Lanka, Yemen

India: Assam, Kerala, Orissa, Tamil Nadu, Nicobar Island

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

6. Threat Status:

IUCN: Least concern

BSI

7. Habit and Habitat: Floating herb; grows in stagnant water bodies, covers surface of pools in a continuous sheet or fewer individuals in backwaters, rock pools and rice fields

8. Life Form: Hydrophyte

9. Economic Importance: Used in folk medicine

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=20^5$; $2n=40^5$; $2n=50^5$; $2n=60^5$; $2n=80^5$

14. Gametic chromosome number(s):

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

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 level³

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