

Species Datasheet CalU+SUK-Phase I

Datasheet No. A-028.025.001
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species: *Lemna aequinoctialis* Welw.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Lemna angolensis* Welw., *L. aoukikusa* T.Beppu & Murata, *L. aoukikusa* subsp. *hokurikuensis* T.Beppu & Murata, *L. blatteri* McCann, *L. eleanorae* McCann, *L. minima* Blatt. & Hallb., *L. paucicostata* Hegelm., *L. paucicostata* var. *membranacea* Hegelm., *L. perpusilla* var. *trinervis* Austin ex A.Gray, *L. trinervis* (Austin) Small

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. aequinoctialis* Welw.

Bentham and Hooker (1862)

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

4. Distribution:

Global: Afghanistan; Argentina; Aruba; Australia; Barbados; Belize; Benin; Bermuda; Bolivia; Brazil; Burkina Faso; Burundi; Cameroon; Cape Verde; Cayman Islands; Central African Republic; Chad; China; Christmas Island; Colombia; Congo; Costa Rica; Côte d'Ivoire; Cuba; Dominican Republic; Ecuador; Egypt; El Salvador; Fiji; Gambia; Ghana; Guatemala; Guinea; Guinea-Bissau; Guyana; Haiti; Honduras; India; Indonesia; Jamaica; Kenya; Lesotho; Liberia; Madagascar; Malawi; Malaysia; Mauritius; Mexico; Mozambique; Namibia; Nepal; New Caledonia; Nicaragua; Niger; Nigeria; Panama; Paraguay; Peru; Philippines; Puerto Rico; Réunion; Russian Federation; Rwanda; Senegal; Seychelles; Sierra Leone; South Africa; Suriname; Swaziland; Taiwan, Province of China; Thailand; Togo; Tonga; Trinidad and Tobago; Uganda; United States; Venezuela; Viet Nam; Virgin Islands, British; Virgin Islands, Zambia; Zimbabwe

India: Throughout India

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

6. Threat Status:

IUCN: Least concern

BSI

7. Habit and Habitat: Free floating frond; found in mesotrophic to eutrophic lentic waters of lakes, pools, ponds, rice fields and ditches and warm-temperate to tropical climates

8. Life Form: Hydrophyte

9. Economic Importance: It is used as a medicine, has environmental uses and for food

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=40^{1,2}$; $2n=50^2$; $2n=60^2$; $2n=70^1$

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):