

Species Datasheet CalU+SUK-Phase I

Datasheet No. A-032.010.009
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Najas marina* L.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Najas gracilis* Morong, *N. latior* F. Muell. ex K. Schum., *N. major* subsp. *multidentata* (A. Braun) K. Richt., *N. major* subsp. *paucidentata* (A. Braun) K. Richt., *N. major* var. *angustifolia* A. Braun, *N. major* var. *ehrenbergii* A. Braun, *N. major* var. *laevis* DC., *N. major* var. *multidentata* A. Braun, *N. major* var. *paucidentata* A. Braun, *N. marina* subsp. *major* (All.) Viinikka, *N. marina* var. *angustifolia* A. Braun, *N. marina* var. *bollei* K. Schum., *N. marina* var. *brevifolia* Rendle, *N. marina* var. *denticulata* Rendle, *N. marina* var. *ehrenbergii* (A. Braun) K. Schum., *N. marina* var. *latifolia* A. Braun, *N. marina* var. *latior* K. Schum., *N. marina* var. *marina*, *N. marina* var. *multidentata* (A. Braun) K. Schum., *N. marina* var. *muricata* K. Schum., *N. marina* var. *paucidentata* K. Schum.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Hydrocharitaceae
- Subfamily: Hydrilloideae
- Genus: *Najas* L.
- Species: *N. marina* L.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Monocotyledones
- Series: Apocarpae
- Ordo: Najadaceae Juss.
- Genus: *Najas* L.
- Species: *N. marina* L.

4. Distribution:

Global: Cosmopolitan

India: Almost throughout India

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

6. Threat Status:

IUCN: Least concern

BSI

7. Habit and Habitat: Aquatic herb; found in fresh or brackish water, ponds, lakes and slowly-moving rivers

8. Life Form:Hydrophyte

9. Economic Importance:The plant is sometimes gathered from the wild and used for food. It is sold in local markets in Hawaii

10. Probable Progenitor of:

11. DNA

C-value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=12^{1,4,6,9,10,11}$; $2n=14^{14}$; $2n=24^{12}$; $2n=48^{13}$; $2n=60^1$

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 level

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