

Species Datasheet CalU+SUK-Phase I

Datasheet No. A-032.010.004
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Najasgraminea* Del.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Caulinia fragilis* var. *intermedia* (Balb. & Nocca) Nyman, *C. graminea* (Delile) Tzvelev, *Najasgraminea* var. *serristipula* (Maxim.) Nakai, *N. graminea* var. *vulgata* Magnus, *N. seminuda* Griff.

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. graminea* Del.

Bentham and Hooker (1862)

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

4. Distribution:

Global: Afghanistan, Aldabra, Algeria, Assam, Bangladesh, Botswana, Cameroon, Central African Repu, Chad, China North-Central, China South-Central, China Southeast, Egypt, Ethiopia, Gambia, Guinea-Bissau, Hainan, India, Iran, Iraq, Japan, Jawa, Kazakhstan, Kenya, Korea, Lebanon-Syria, Lesser Sunda Island, Malaya, Mali, Maluku, Manchuria, Mauritania, Myanmar, Nansei-shoto, Nepal, New Caledonia, New Guinea, Northern Provinces, Northern Territory, Oman, Pakistan, Palestine, Philippines, Rwanda, Senegal, Socotra, South China Sea, Sri Lanka, Sudan, Sulawesi, Sumatera, Tadzhikistan, Taiwan, Tanzania, Thailand, Transcaucasus, Turkey, Uzbekistan, Vietnam, Western Australia, Yemen, Zaïre, Bulgaria, California, Greece, Italy, Krym, Romania, Spain

India: Almost throughout India

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

6. Threat Status:

IUCN: Least concern

BSI

7. Habit and Habitat:Aquatic herb

8. Life Form:Hydrophyte

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=12^{1,3}$; $2n=24^4$; $2n=36^{1,6}$; $2n=48^5$

14. Gametic chromosome number(s): $n=24^5$

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

Image file

16. Ploidy level: Polyploid⁵

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 metacentric chromosomes⁵

Chromosome size

NOR chromosome(s): 8NOR⁵

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: 24 II^5

Image file

27. Chromosome distribution at anaphase I: Regular⁵

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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