

Datasheet No. A-097.001.012
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Juncus effusus* L.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Juncus communis* E.Mey., *J. communis* var. *effusus* (L.) E.Mey., *J. communis* var. *parviflorus* Rouy, *J. conglomeratus* var. *effusus* (L.) Kostel., *J. effusus* f. *prolifer* (Sond.) Hegi, *J. effusus* f. *zebrinus* (André) Hegi, *J. effusus* subsp. *fistulosus* (Guss.) K.Richt., *J. effusus* var. *compactus* Lej., *J. effusus* var. *conglomeratus* (L.) Engelm., *J. effusus* var. *dasyanthelus* K.Koch, *J. effusus* var. *effusus*, *J. effusus* var. *elatus* (Asch. & Graebn.) I.Grint., *J. effusus* var. *fistulosus* (Guss.) Buchenau, *J. effusus* var. *longibracteatus* A.Fern. & R.Fern., *J. effusus* var. *macranthelus* K.Koch, *J. effusus* var. *pauciflorus* Lej. & Courtois, *J. effusus* var. *prolifer* Sond., *J. effusus* var. *subglomeratus* DC., *J. effusus* var. *subglomeratus* Lam. & DC., *J. laevis* Wallr., *J. laevis* var. *diffusus* Wallr., *J. mauritanus* Bojer, *Tristemon conglomeratus* Raf.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Poales Small
- Family: Juncaceae Juss.
- Genus: *Juncus* L.
- Species: *J. effusus* L.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Monocotyledones
- Series: Calycineae
- Ordo: Juncaceae Juss.
- Genus: *Juncus* L.
- Species: *J. effusus* L.

4. Distribution:

Global: Afghanistan, Alabama, Alaska, Albania, Algeria, Altay, Arizona, Arkansas, Austria, Azores, Balears, Baltic States, Belarus, Belgium, Bolivia, British Columbia, Bulgaria, Burundi, California, Cambodia, Canary Island, Central European Rus, China, Colombia, Connecticut, Corse, Costa Rica, Cyprus, Czechoslovakia, Delaware, Denmark, District of Columbia, East Aegean Island, East European Russia, Ecuador, El Salvador, Finland, Florida, France, Free State, Føroyar, Georgia, Germany, Great Britain, Greece, Guatemala, Haiti, Honduras, Hungary, Iceland, Idaho, Illinois, India, Indiana, Iowa, Iran, Iraq, Ireland, Italy, Kansas, Kentucky, Kenya, Krasnoyarsk, Krit Krym, Leeward Is., Louisiana, Madagascar, Madeira, Maine, Manchuria, Manitoba, Maryland, Massachusetts, Mauritius, Mexicar Pacific Is., Mexico Central, Mexico Gulf, Mexico, Michigan, Minnesota, Mississippi, Missouri, Montana, Morocco, Nebraska, Netherlands, New Brunswick, New Hampshire, New Jersey, New York, Newfoundland, North Carolina, North Caucasus, North European Russi, Northern Provinces, Northwest European R, Norway, Nova Scotia, Ohio, Oklahoma, Ontario, Oregon, Palestine, Pennsylvania, Peru, Poland, Portugal, Prince Edward I., Québec, Rhode I., Romania, Rwanda, Sardegna, Sicilia, South Carolina, South European Russi, Spain, Svalbard, Sweden, Switzerland, Taiwan, Tanzania, Tennessee, Texas, Tibet, Transcaucasus, Tunisia, Turkey, Turkey-in-Europe, Uganda, Ukraine, Venezuela, Vermont, Virginia, Washington, West Siberia, West Virginia, Wisconsin, Yugoslavia, Zaire, Zimbabwe

India: Arunachal Pradesh, Assam, Himachal Pradesh, Jammu and Kashmir, Manipur, Meghalaya, Sikkim, Tamil Nadu, West Bengal

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

6. Threat Status:

IUCN: Least concern

BSI

7. Habit and Habitat: Rhizomatous herb; found growing in wet areas, such as wetlands, riparian areas, and marshes

8. Life Form:

9. Economic Importance: Used as ornamental plant, as medicine and food. The species provides wildfowl, wader feeding, and nesting habitats, and also habitats for small mammals.

10. Probable Progenitor of:

11. DNA

C-value

Methodology

2C (11.1 pg)¹

Feulgen densitometry¹

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=40^{1,3,21,25,26}$, $2n=42^{20,24}$, $2n=80^{27}$

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level: Tetraploid¹

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

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 level²⁸

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