Species Datasheet CalU+SUK-Phase I

Datasheet No. A-097.002.005 **DBT- Network Programme**
(family.genus.species)

1. Taxon:

Species:*Luzula multiflora* (Ehrh.) Lej.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:*Cyperella campestris* var. *multiflora* (Ehrh.) MacMill., *Gymnodes multiflora* Fourr., *Juncoides campestris* var. *multiflora* (Ehrh.) E.Sheld., *J. erecta* Boulger, *J. multiflora* Druce, *Juncus campestris* var. *multiflorus* Ehrh., *J. campestris* var. *tenuis* Retz., *J. erectus* Pers., *J. multiflorus* (Ehrh.) Ehrh., *J. nemorosus* Host, *Luzula campestris* subsp. *carpetana* Rivas Mart., *L. campestris* subsp. *erecta* P.Fourn., *L. campestris* subsp. *multiflora* (Ehrh.) Schübl. & G.Martens, *L. campestris* subsp. *multiflora* (Ehrh.) Buchenau, *L. campestris* var. *groenlandica* Laest., L. campestris var. multiflora Celakov, L. campestris var. nemorosa (Host) E.Mey., *L. campestris* var. *subspicata* Laest., *L. erecta* Desv., *L. erecta* var. *pallens* Rouy, *L. intermedia* Figert, *L. intermedia* Spenn., *L. intermedia* var. *multiflora* (Ehrh.) Spenn., *L. multiflora* f. *umbrosa* Neuman, *L. multiflora* subsp. *occidentalis* V.I.Krecz., *L. multiflora* subsp. *pyrenaica* (Sennen) P.Monts., *L. multiflora* subsp. *tenella* (E.Mey.) Kouharov, *L. multiflora* subsp. *thracica* Kouharov, *L. multiflora* var. *flexuosa* Beyer, *L. multiflora* var. *intermedia* Koidz., *L. multiflora* var. *multiflora*, *L. multiflora* var. *pallescens* Bluff & Fingerh., *L. multiflora* var. *pallida* Parl., L. multiflora var. tenuis Satake, L. multiflora var. uliginosa Gremli, L. nemorosa Hornem., *L. spicata* var. *tenella* E.Mey., *L. tenella* Miel., *L. yakusimensis* (Masam.) Masam.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Poales Small
- Family: Juncaceae Juss.
- Genus:*Luzula* DC.
- Species: *L. multiflora* (Ehrh.) Lej.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Monocotyledones
- Series: Calycineae
- Ordo: Juncaceae Juss.
- Genus:*Luzula* DC.
- Species:*L. multiflora* (Ehrh.) Lej.

4. Distribution:

Global: Alaska, Albania, Alberta, Aleutian Island, Algeria, Altay, Amur, Argentina, Austria, Baltic States, Belarus, Belgium, British Columbia, Bulgaria, Buryatiya, Central European Rus, China, Chita, Connecticut, Corse, Costa Rica, Czechoslovakia, Delaware Denmark, East European Russia, Falkland Island, Finland, France, Føroyar, Germany, Great Britain, Greece, Greenland, Hungary Iceland, Illinois, India, Inner Mongolia, Iowa, Iran, Ireland, Irkutsk, Italy, Japan, Kamchatka, Kazakhstan, Kentucky, Khabarovsk Kirgizstan, Korea, Krasnoyarsk, Krym, Kuril Island, Labrador, Magadan, Maine, Manitoba, Massachusetts, Michigan, Minnesota Mongolia, Montana, Morocco, Netherlands, New Brunswick, New Hampshire, New Jersey, New York, Newfoundland, North Caucasus, North Dakota, North European Russi, Northwest European R, Northwest Territorie, Norway, Nova Scotia, Ohio, Ontario Oregon, Pennsylvania, Poland, Portugal, Primorye, Prince Edward I., Québec, Romania, Sakhalin, Saskatchewan, South Dakota, South European Russi, Spain, Sweden, Switzerland, Tadzhikistan, Tennessee, Tibet, Transcaucasus, Tunisia, Turkey, Turkey-in-Europe, Turkmenistan, Tuva, Ukraine, Uzbekistan, Vermont, Virginia, West Siberia, West Virginia, Wisconsin, Xinjiang, Yakutskiya, Yugoslavia, Yukon

India: Arunachal Pradesh, Jammu and Kashmir, Sikkim, Uttarakhand, West Bengal

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat: Herb; found in anthropogenic (man-made or disturbed habitats), forest edges, forests, meadows and fields

8. Life Form:

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value	Methodology
2C (2.54 ± 0.01 pg)[9]	Flow cytometry[9,20]
2C (3.034±0.029 pg)[20]	

12. Basic chromosome number(s):

13. Zygotic chromosome number(s):2n=24[3,4,6,10,11,12,13,14,15,20];2n=36[3,4,6,8,9,13,16,17,18,19]; 2n=42[20]

14. Gametic chromosome number(s): n=12[10]; n=18[8]

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

Image file

16. Ploidy level: Hexaploid[9]; polyploid[20]

Image file

17. Agametoploidy:

18. Nature of polyploidy (auto, segmental, allo, autoallo):

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty): Aneuploid chromosome numbers with 2n=35, 2n=40, 2n=41, 2n=44, 2n=45, 2n=46, 2n=47, 2n=49, 2n=50, 2n=79[20]

21. Somatic chromosomes:

Karyotype

Chromosome size: 0.5-1.4µm[20]; 1.31 ± 0.19µm[9]; 1.5-3.7µm[20]

NOR chromosome(s)

Degree of asymmetry

Image file

22. Banding pattern(s): Many chromosomes had three C-positive regions -one on each end and one near middle; other chromosomes had two C-positive regions -one on either chromosome end; several chromosomes had a single large C-band located at one end of the chromosomes[16]

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;Translocationsetc):