

Species Datasheet

Datasheet No. A-140.013.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Leucaena leucocephala* (Lam.) de Wit

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Acacia frondosa* Willd., *A. glauca* (L.) Willd., *A. leucocephala* (Lam.) Link., *Leucaena glabra* Benth., *L. glauca* Benth., *L. leucocephala* subsp. *leucocephala*, *Mimosa glauca* L., *M. leucocephala* Lam.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superrosids
- Clade: Rosids
- Clade: Fabids
- Order: Fabales Bromhead
- Family: Fabaceae Lindl.
- Genus: *Leucaena* Benth.
- Species: *L. leucocephala* (Lam.) de Wit

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Polypetalae
Series: Calyciflorae
Cohors: Rosales Bercht. & J. Presl
Ordo: Leguminosae Juss.
Subordo: Mimoseae Bronn
Genus: *Leucaena* Benth.
Species: *L. leucocephala* (Lam.) de Wit

4. Distribution:

Global: Africa, Australasia, Central America, Indo-china, South-East Asia.

India: Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Diu, Daman, Delhi, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Orissa, Pondicherry, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal, Andaman Island, Nicobar Island

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Tree. *L. leucocephala* is a weed of open often coastal or riverine habitats

8. Life Form: Phanerophytes

9. Economic Importance: Used in soil enrichment and erosion control, fodder crop but poisonous to non-ruminants, Contains alkaloid mimosine.

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=36^1$, $2n=56^2$, $2n=104^{3-6}$

14. Gametic chromosome number(s): $n=52^{7,8}$

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: $26\text{ II}, 26\text{ I}^7$

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level:⁹⁻¹¹

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