

Species Datasheet

Datasheet No. G-011.006.001
(family.genus.species)

1.Taxon:

Species: *Cupressus arizonica* Greene

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms: *Callitropsis arizonica* (Greene) D.P.Little, *Cupressus arizonica* var. *arizonica*, *C. arizonica* var. *bonita* Lemmon, *C. arizonica* var. *compacta* C.K.Schneid., *C. arizonica* f. *compacta* (C.K.Schneid.) Rehder, *C. arizonica* f. *glauc* (Woodall) Rehder, *C. arizonica* f. *glomerata* Martinez, *C. arizonica* f. *minor* Martinez, *C. arizonica* var. *reveliana* Silba, *C. arizonica* subsp. *reveliana* (Silba) Silba, *C. benthamii* var. *arizonica* (Greene) Mast., *C. lusitanica* subsp. *arizonica* (Greene) Maire, *Hesperocyparis arizonica* (Greene) Bartel, [*H. reveliana* \(Silba\) Silba](#), *Neocupressus arizonica* (Greene) de Laub.

3.Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Gnetidae Pax
- Order: Cupressales Link
- Family: Cupressaceae Gray
- Genus: *Cupressus* L.
- Species: *C. arizonica* Greene

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

Tribus: Cupressineae

Genus: *Cupressus* L.

Species: *C. arizonica* Greene

4.Distribution:

Global: Native in the mountains of Arizona and North Mexico

India: Tamil Nadu

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

6.Threat Status:

IUCN: Least concern

BSI:

7.Habit and Habitat: Evergreen tree (10-25 m tall), grows on dry sterile rocky mountain slopes and canyon walls, in montane coniferous forest, mixed broad-leaf-coniferous woodland, the climate is characterized by warm to hot, dry summers and winter rainfall.

8.Life Form:Phanerophytes

9.Economic Importance: Ornamental, here are no known commercial uses of the wood at the present time.

10. Probable Progenitor of:

11.DNA

C-value	Methodology
---------	-------------

2C (23.59pg) ⁹	Feulgenmicrodensitometry ⁹
---------------------------	---------------------------------------

2C (22.60 pg) ¹¹	Flow cytometry ¹¹
-----------------------------	------------------------------

12.Basic chromosome number(s): $x=11$ ^{5,6,8, 9}

13. Zygotic chromosome number(s): $2n=22$ ^{6, 9}

14. Gametic chromosome number(s): $n=11$ ⁸

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

Image file

16.Ploidy level:Diploid^{6, 8, 9}

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:⁶

Karyotype Median⁶

Chromosome size Large⁶

NOR chromosome(s)

Degree of asymmetry Symmetrical⁶

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 11 II⁸

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.):