

# Species Datasheet

Datasheet No. G-011.006.004  
(family.genus.species)

## 1. Taxon:

Species: *Cupressus goveniana* Gordon

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

**2. Synonyms:** *Callitropsis goveniana* (Gordon) D.P.Little, *Cupressus aromatica* Gordon, *C. attenuata* Gordon, *C. bourgeauii* Gordon, *C. californica* Carrière, *C. cornuta* Carrière, *C. goveniana* var. *attenuata* (Gordon) Carrière, *C. goveniana* var. *cornuta* (Carrière) Carrière, *C. goveniana* subsp. *gibsonensis* Silba, *C. goveniana* var. *glauca* Carrière, *C. goveniana* var. *goveniana*, *C. goveniana* var. *gracilis* Carrière, *C. goveniana* var. *huberiana* Carrière, *C. goveniana* var. *parva* Lemmon, *C. goveniana* var. *pendula* A.Henry, *C. goveniana* var. *pigmaea* Lemmon, *C. goveniana* subsp. *pigmaea* (Lemmon) Bartel, *C. goveniana* var. *viridis* Carrière, *C. pigmaea* (Lemmon) Sarg., *C. silbae* B.Huangbis, *Hesperocyparis goveniana* (Gordon) Bartel, *H. pigmaea* (Lemmon) Bartel, *Juniperus aromatica* Carrière, *Neocupressus goveniana* (Gordon) deLaub.

## 3. Systematic Position:

### Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Cupressales Link
- Family: Cupressaceae Gray
- Genus: *Cupressus* L.
- Species: *C. goveniana* Gordon

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Gymnospermeae  
Ordo: Coniferae  
Tribus: Cupressineae  
Genus: *Cupressus* L.  
Species: *C. goveniana* Gordon

## 4. Distribution:

**Global:** Native to hills of the coast from Mendocino country to San Diego country in California

**India:** Tamil Nadu (Kodaikanal)

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

## 6. Threat Status:

**IUCN:** Endangered

## **BSI:**

**7.Habit and Habitat:** Evergreen shrub or small tree (10-50 m tall), grows on sterile soils at sea level to 1200 m a.s.l. This species is found in chaparral, 'pine barrens', and open pine woodland, on sandstone outcrops, white or yellow sandy slopes, and leached, virtually sterile sandy 'hardpan', where it becomes dwarfed. The altitudinal range is from near sea level to 1200 m a.s.l. The climate is of the Mediterranean type with dry, hot summers, but in a narrow coastal strip cooled by frequent fog, and winter rain.

**8.Life Form:**Phanerophytes

**9.Economic Importance:**In southern Europe it is grown more widely in gardens and parks

**10. Probable Progenitor of:**

**11.DNA**

**C-value            Methodology**

**12.Basic chromosome number(s):** $x=11^{5, 7}$

**13. Zygotic chromosome number(s):** $2n=22^6$

**14. Gametic chromosome number(s):** $n=11^7$

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

Image file

**16.Ploidy level:**Diploid<sup>6, 7</sup>

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:** Haploid endosperm mitosis<sup>7</sup>

**Karyotype** Median submedian<sup>7</sup>

**Chromosome size** Large<sup>7</sup>

**NOR chromosome(s)** 2 (endosperm mitosis)<sup>7</sup>

**Degree of asymmetry** Symmetrical<sup>7</sup>

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** 11II<sup>7</sup>

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.):**