

# Species Datasheet

Datasheet No. G-007.005.001  
(family.genus.species)

## 1.Taxon:

Species: *Pinus ayacahuite* Ehrenb. ex Schltdl.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

**2. Synonyms:***Pinus ayacahuite* var. *ayacahuite*, *P. ayacahuite* subsp. *neorecurvata* Silba, *P. ayacahuite* var. *oaxacana* Silba, *P. ayacahuite* subsp. *oaxacana* (Silba) Silba, *P. buonapartea* Roetzl ex Gordon, *P. colorado* Parl., *P. don-pedrii* Roetzl, *P. durangensis* Roetzl ex Gordon, *P. hamata* Roetzl, *P. loudoniana* var. *don-pedrii* (Roetzl) Carriere

## 3.Systematic Position:

**Christenhusz et al. (2011)**

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Pinales Gorozh.
- Family: Pinaceae Spreng.
- Genus: *Pinus* L.
- Species: *P. ayacahuite* Ehrenb. ex Schltdl.

**Bentham and Hooker (1862)**

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

Tribus: Abietineae Eichler

Genus: *Pinus* L.

Species: *P. ayacahuite* Ehrenb. ex Schltdl.

## 4.Distribution:

**Global:** Native of El Salvador, Guatemala, Honduras and Mexico

**India:**

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

## 6.Threat Status:

**IUCN:** Least concern

**BSI:**

**7.Habit and Habitat:**Evergreen tree (30-45 m tall),*P. ayacahuite* forms emergent trees in mixed montane conifer forest on mesic sites, or grows in groups or small groves. The best stands are on loamy, well drained soils. Its altitudinal range is (1,500-)1,900-3,200(-3,600) m a.s.l.

**8.Life Form:**Phanerophytes

**9.Economic Importance:**The wood is used for construction, carpentry, furniture and utilities such as containers, pallets and crates as well as wood pulp. Ornamental

**10. Probable Progenitor of:**

**11.DNA**

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

|                             |                              |
|-----------------------------|------------------------------|
| 2C (72.00 pg) <sup>20</sup> | Flow cytometry <sup>20</sup> |
|-----------------------------|------------------------------|

**12.Basic chromosome number(s):** $x=12^{35,48, 72, 75}$

**13. Zygotic chromosome number(s):** $2n=24^{48, 75}$

**14. Gametic chromosome number(s):** $n=12^{72}$

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

Image file

**16.Ploidy level:**Diploid<sup>48, 72, 75</sup>

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:**<sup>48, 75</sup>

**Karyotype**Median one pair submedian<sup>48, 75</sup>

**Chromosome size**Large<sup>48, 75</sup>

**NOR chromosome(s)**

**Degree of asymmetry**Symmetrical<sup>48, 75</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**

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.):**