

Species Datasheet

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Datasheet No. G-011.007.009
(family.genus.species)

1.Taxon:

Species: *Juniperus scopulorum* Sarg.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Juniperus excelsa* Pursh, *J. occidentalis* var. *pleiosperma* Engelm., *J. scopulorum* var. *columnaris* Fassett, *J. scopulorum* f. *columnaris* (Fassett) Rehder, *J. virginiana* var. *montana* Vasey, *J. virginiana* var. *scopulorum* (Sarg.) Lemmon, *J. virginiana* subsp. *scopulorum* (Sarg.) A.E.Murray, *Sabina scopulorum* (Sarg.) Rydb.

3.Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Cupressales Link
- Family: Cupressaceae Gray
- Genus: *Juniperus* L.
- Species: *J. scopulorum* Sarg.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

Tribus: Cupressineae

Genus: *Juniperus* L.

Species: *J. scopulorum* Sarg.

4.Distribution:

Global: Native to western North America

India:

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

6.Threat Status:

IUCN: Least concern

BSI:

7.Habit and Habitat:Small tree (1.5-4.5 m tall), the altitudinal range is (5-)500-2,300(-2,770) m a.s.l. It is most common in rocky terrain on soils derived from basalt, limestone and shale, usually eroded and shallow, quickly drained and mostly nutrient-poor.

8.Life Form:Phanerophytes

9.Economic Importance:Ornamental, medicinal

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10. Probable Progenitor of:

11.DNA

C-value	Methodology
2C (22.60 pg) ²⁶	Flow cytometry ²⁶
2C (24.40 pg) ²⁶	Flow cytometry ²⁶

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

13. Zygotic chromosome number(s): $2n=$

14. Gametic chromosome number(s): $n=11$ ^{7, 12}

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

Image file

16.Ploidy level:Diploid¹²

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 I II¹²

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.):