Species Datasheet **DBT- Network Programme**

Datasheet No. G-012.001.002
(family.genus.species)

1.Taxon:
Species:*Cephalotaxusharringtonii*(Knight ex J.Forbes) K.Koch
Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:*Cephalotaxusdrupacea*Siebold&Zucc.,*C.drupacea* f. *fastigiata* (Carriere) Pilg.,*C.drupacea* var.
harringtonii (Knight ex J.Forbes) Pilg.,*C.drupacea* var. *koreana* (Nakai) Hatus.,*C.drupacea* var. *pedunculata*
(Siebold&Zucc.) Miq.,*C.drupacea* f. *sphaeralis* (Mast.) Pilg.,*C. fortunei* var. *foemina*Carriere,*C.*
harringtonia var. *fastigiata* (Carriere) Rehder,*C.harringtonii* subsp. *drupacea* (Siebold&Zucc.)
Silba,*C.harringtonii* var. *drupacea* (Siebold&Zucc.) Koidz.,*C.harringtonii* f. *drupacea* (Siebold&Zucc.)
Kitam.,*C.harringtonii* f. *fastigiata* (Carrière) Rehder,*C. harringtonii* var. *fastigiata* (Carriere)
C.K.Schneid.,*C.harringtonii* var. *harringtonii*,*C.harringtonii* subsp. *koreana* (Nakai)
Silba,*C.harringtonii* f.
sphaeralis (Mast.) Rehder,*C.harringtonii* var. *sphaeralis* (Mast.)
C.K.Schneid.,*C.koreana*Nakai,*C.pedunculata*Siebold&Zucc.,*C.pedunculata* var. *fastigiata*Carriere,*C.pedunculata* var. *sphaeralis* Mast.,*Nageiakoraiana* (Siebold ex Endl.)
Kuntze,*Podocarpuskoraiana* C. Siebold ex Endl.,*P.koraianus*Siebold ex
Endl.,*Taxusbaccata*Thunb.,*T.coriacea*Knight,*T.drupacea* (Siebold&Zucc.)
C.Lawson,*T.harringtonii* Knight
ex J.Forbes,*T.inukaja*Knight,*T.japonica*Lodd. exGordon,*T.pedunculata* (Siebold&Zucc.)
C.Lawson

3.Systematic Position:
Christenhusz*et al.* (2011)
Class: Equisetopsida C. Agardh
Subclass: GnetidaePax
Order: Cupressales Link
Family:Taxaceae Gray
Genus: *Cephalotaxus*Siebold&Zucc. exEndl.
Species: *C. harringtonii*(Knight ex J.Forbes)
K.Koch

Bentham and Hooker (1862)
Kingdom: Plantae
Division:Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus:Taxeae Rich. exDuby
Genus: *Cephalotaxus*Siebold&Zucc. exEndl.
Species: *C. harringtonii*(Knight ex J.Forbes)
K.Koch

4.Distribution:

Global: Native of Japan
India: Uttarakhand (FRI at Dehradun and Nainital)

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

6.Threat Status:

IUCN: Least concern
BSI:

7.Habit and Habitat: Small evergreen shrub or tree, *C.harringtonii* in its tree form is a component of both
broad-leaved (angiosperm) forest and coniferous forest, or mixed forest

8.LifeForm: Phanerophytes

9.Economic Importance: In general this species is probably too small to be a useful timber. However it is
grown as an ornamental in many northern hemisphere countries.

10. Probable Progenitor of:

11.DNA
C-value2C(50.70pg)[5] **Methodology**Flow cytometry[5]

12.Basic chromosome number(s):x=12 [2, 3, 4, 9]

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

14. Gametic chromosome number(s):n=12[4, 8, 9,] 12 (endosperm mitosis) [3]

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

Image file

16.Ploidylevel: Diploid3, 4

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:3

Karyotype Mostly median one submedian3
Chromosome size Large3
NOR chromosome(s)13 (endosperm mitosis)
Degree of asymmetry Symmetrical3

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 Trees with normal meiosis: 12 II
Trees with abnormal meiosis: Some II′s show early disjunction, majority of cells show irregularly
distributed II′s8
12II 9

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;Translocationsetc.):