

Species Datasheet

Datasheet No. A-403.059.002
(family.genus.species)

DBT-1

1. Taxon:

Species: *Xanthium strumarium* L.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Xanthium abyssinicum* Wallr., *X. acerosum* Greene, *X. acutilobum* Millsp. & Sherff, *X. acutum* Greene, *X. affine* Greene, *X. albinum* subsp. *ripicola* (Holub) J. Dostal, *X. americanum* Walt., *X. americanum* Walter, *X. arcuatum* Millsp. & Sherff, *X. arenarium* Lasch, *X. aridum* St. John, *X. barcinonense* Sennen, *X. brevirostre* Hochst., *X. brevirostre* Wallr., *X. bubalocarpon* Bush, *X. californicum* var. *rotundifolium* Widder, *X. calvum* Millsp. & Sherff, *X. campestre* Greene, *X. cenchroides* Millsp. & Sherff, *X. chasei* Fernald, *X. chinense* Mill., *X. chinense* var. *chinense*, *X. chinense* var. *globuliforme* C. Shull, *X. cloessplateaum* D. Z. Ma, *X. commune* Britton, *X. commune* var. *commune*, *X. cordifolium* Stokes, *X. crassifolium* Millsp. & Sherff, *X. cuneatum* Moench, *X. curvescens* Millsp. & Sherff, *X. cylindraceum* Millsp. & Sherff, *X. cylindricum* Millsp. & Sherff, *X. decalvatum* Widder, *X. discolor* Wallr., *X. echinatum* Murray, *X. echinatum* var. *cavanillesii* (Schouw) O. Bolòs & J. Vigo, *X. echinatum* subsp. *echinatum*, *X. echinatum* var. *echinatum*, *X. echinatum* var. *italicum* (Moretti) O. Bolòs & J. Vigo, *X. echinatum* subsp. *italicum* (Moretti) O. Bolòs & J. Vigo, *X. echinellum* Greene ex Rydb., *X. echinellum* Greene, *X. fuscescens* Jord. & Fourr., *X. glabratum* (DC.) Britton, *X. glanduliferum* Greene, *X. globosum* C. Shull, *X. homothalamum* Spreng., *X. indicum* Klatt, *X. indicum* DC., *X. indicum* Roxb., *X. indicum* var. *indicum*, *X. inflexum* Mack. & Bush, *X. italicum* var. *albinum* Widder, *X. japonicum* Widder, *X. leptocarpum* Millsp. & Sherff, *X. longirostre* Wallr., *X. macounii* Britton, *X. macrocarpum* var. *glabratum* DC., *X. mongolicum* Kitag., *X. monoicum* Gilib., *X. nigri* Ces., *X. occidentale* Bertol., *X. oligacanthum* Piper, *X. orientale* f. *laciniatum* (Pouzolx) Thell. ex Widder, *X. orientale* var. *riparium* (Itzigs. & Hertsch) Adema & M. T. Jansen, *X. oviforme* Wallr., *X. pennsylvanicum* Gand., *X. pungens* var. *cylindricum* (Millsp. & Sherff) Widder, *X. pungens* var. *denudatum* Widder, *X. pungens* var. *globosum* (Shull) Widder, *X. riparium* Lasche, *X. ripicola* J. Holub, *X. roxburghii* Wallr., *X. saccharatum* subsp. *aciculare* Widder, *X. saccharatum* subsp. *commune* (Britton) Widder, *X. sibiricum* var. *subinerme* (C. Winkl.) Widder, *X. speciosum* Kearney, *X. sphaerocephalum* Salzm. ex Ball, *X. strumarium* var. *arenarium* (Lasch) Uechtritz, *X. strumarium* var. *canadense* (Mill.) Torr. & A. Gray, *X. strumarium* var. *glabratum* (DC.) Cronquist, *X. strumarium* var. *hausmanni* Widder, *X. strumarium* var. *oviforme* (Wallr.) M. Peck, *X. strumarium* var. *pensylvanicum* (Wallr.) M. Peck, *X. strumarium* f. *purpurascens* S. Przstzter, *X. strumarium* subsp. *strumarium*, *X. strumarium* f. *strumarium*, *X. strumarium* var. *strumarium*, *X. strumarium* var. *wootonii* (Cockerell) W. C. Martin & C. R. Hutchins., *X. strumarium* var. *wootonii* (Cockerell) M. Peck, *X. varians* Greene, *X. wootonii* Cockerell ex de Vries, *X. wootonii* Cockerell

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Superasterids
- Clade: Asterids
- Order: Asterales Link
- Family: Asteraceae Bercht. & J. Presl
- Genus: *Xanthium* L.
- Species: *X. strumarium* L.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Gamopetalae
Series: Inferae
Cohors: Asterales Link
Ordo: Compositae Giseke
Genus: *Xanthium* L.
Species: *X. strumarium* L.

4. Distribution:

Global: Argentina, Australia, Bolivia, Brazil, Canada, Caribbean, Chile, China, Colombia, Mexico, Paraguay, Peru, South Africa, USA, Uruguay, Venezuela

India: Throughout India

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Herb. Common throughout as a weed along roadsides and in waste places.

8. Life Form: Chamaephytes

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C-value

Methodology

12. Basic chromosome number(s): $x=6$ ⁷

13. Zygotic chromosome number(s): $2n=32$ ⁷, $2n=34$ ⁸, $2n=36$ ^{2,9-15}

14. Gametic chromosome number(s): $n=16$ ⁷, $n=18$ ^{13,15,16,17}

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

Image file

16. Ploidy level:

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: ^{7,9}

Karyotype Majority metacentric chromosomes

Chromosome size

NOR chromosome(s)

Degree of asymmetrySymmetrical

Image file

22. Banding pattern(s):CMA/DAPI banding⁹

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 meiosis16II⁷

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; Translocations etc.):