

1. Genus: *Xanthium* L.

2. 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.

Bentham and Hooker (1862)

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

3. Species:

Global: 11

India: 4

4. Taxonomic riddles:

5. Distribution:

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

India: Throughout India

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6. Habit and Habitat: Herb. Along roadsides and in waste places.

7. Economic Importance:

8. DNA content range:

Methodology

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

10. Zygotic chromosome number(s): $2n=36$ ^{1-5, 9-15}, $2n=32$ ⁷, $2n=34$ ⁸

11. Gametic chromosome number(s): $n=16^7$, $n=18^{6,13,15,16,17}$

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/Neocentric chromosomes):

13. Ploidy level:

14. Nature of polyploidy (auto, segmental, allo, autoallo):

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

16. Karyograms: 7,9 **Meiosis:** 6,7,13,15,16,17

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

18. Physical mapping of chromosomes: **GISH:**

19. Phylogenetic relationship at:

Chromosomal level

DNA level 18,19

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: Chromosome number is not reported in the following taxa:

Xanthium inaequilaterum DC.

Xanthium pungens Wallr.