

## CHECKLIST OF INDIAN FLEAS (INSECTA: SIPHONAPTERA)

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Adult fleas are bloodsucking ectoparasites of mammals and to a lesser extent, birds. The larvae undergo a holometabolous type of development and generally are not found on the host animal. They ordinarily utilize organic debris as food. Adults range in length from 1-10 mm but most are less than 5 mm. The body is laterally compressed giving a distinct flattened appearance. Wings are absent; antennae are short, 3-segmented usually fit into grooves on the head. The piercing and sucking mouthparts are enclosed within a beak. Most fleas require blood to reproduce and majority of the species infest mammals like rabbits, rats, mice, squirrels and other rodents. Birds, bats, pigs, dogs, cats and humans are also hosts. This group is medically important because they transmit diseases to their hosts. The world fauna of the order Siphonaptera comprises 2000 species and 550 subspecies belonging to 18 families and 4 infraorders (Catalogue of Life, 2009; Medvedev et al, 2003; Parhost, 2005). The Indian fauna is represented by 46 species and 5 subspecies accommodated in 24 genera under 8 families.

**Order: SIPHONAPTERA Latreille, 1825**

**Infraorder: PULICOMORPHA Medvedev, 1998**

**Superfamily: PULICOIDEA Billberg, 1820**

**Family: Pulicidae Billberg, 1820**

**Subfamily: Pulicinae Billberg, 1820**

**Tribe: Pulicini Billberg, 1820**

**1. Genus: *Echidnophaga* Olliff, 1886**

1. *Echidnophaga gallinacea* (Westwood, 1875)
2. *Echidnophaga liopus* Jordan & Rothschild, 1906

**2. Genus: *Pulex* Linnaeus, 1758**

**Subgenus: *Pulex* Linnaeus, 1758**

3. *Pulex irritans* Linnaeus, 1758

**Subfamily: Arcaeopsyllinae Oudemans, 1909**  
**Tribe: Arcaeopsyllini Oudemans, 1909**  
**3. Genus: *Ctenocephalides* Stiles et Collins, 1930**

4. *Ctenocephalides canis* (Curtis, 1826)
5. *Ctenocephalides felis* (Bouche, 1835)
6. *Ctenocephalides orientis* (Jordan, 1925)

**Subfamily: Xenopsyllinae Glinkiewicz, 1907**  
**Tribe: Xenopsyllini Glinkiewicz, 1907**  
**4. Genus: *Pariodontis* Jordan et Rothschild, 1908**

7. *Pariodontis riggenbachi* (Rothschild, 1904)

**5. Genus: *Synosternus* Jordan, 1925**

8. *Synosternus pallidus* (Taschenberg, 1880)

**6. Genus: *Xenopsylla* Glinkiewicz, 1907**

9. *Xenopsylla astia* Rothschild, 1911
10. *Xenopsylla brasiliensis* (Baker, 1904)
11. *Xenopsylla cheopis* (Rothschild, 1903)
12. *Xenopsylla hussaini* Sharif, 1930

**Family: Tungidae Taschenberg, 1880**  
**Subfamily: Tunginae Taschenberg, 1880**  
**Tribe: Tungni Taschenberg, 1880**  
**7. Genus: *Tunga* Jarocki, 1838**  
**Subgenus: *Brevidigita* Wang, 1976**

13. *Tunga penetrans* Linnaeus, 1758

**Superfamily: VERMIPSYLLOIDEA Wagner, 1889**  
**Family: Vermipsyllidae Wagner, 1889**  
**8. Genus: *Chaetopsylla* Kohaut, 1903**  
**Subgenus: *Chaetopsylla* Kohaut, 1903**

14. *Chaetopsylla homoea* Rothschild, 1906

**Infraorder: PYGIOPSYLLOMORPHA Medvedev, 1998**  
**Superfamily: PYGIOSYLLOIDEA Wagner, 1939**  
**Family: Stivaliidae Mardon, 1978**  
**9. Genus: *Stivalius* Jordan et Rothschild, 1922**

15. *Stivalius ahalae* (Rothschild, 1904)  
16. *Stivalius aporus* Jordan et Rothschild, 1922

**10. Genus: *Lentistivalius* Traub, 1972**

17. *Lentistivalius ferinus* (Rothschild, 1908)

**Infraorder: HYSTRICHOPSYLLOMORPHA Medvedev, 1998**

**Superfamily: HYSTRICHOPSYLLOIDEA Tiraboschi, 1904**

**Family: Hystrichopsyllidae Tiraboschi, 1904**

**Subfamily: Rhadinopsyllinae Wagner, 1930**

**Tribe: Rhadinopsyllini Wagner, 1930**

**11. Genus: *Stenischia* Jordan, 1932**

18. *Stenischia pagiana* Lewis, 1969

**Subfamily: Neopsyllinae Oudemans, 1909**

**Tribe: Neopsyllini Oudemans, 1909**

**12. Genus: *Neopsylla* Wagner, 1903**

19. *Neopsylla dispar* Jordan, 1932  
20. *Neopsylla dispar dispar* Jordan, 1932  
21. *Neopsylla securo* Rothschild, 1915  
22. *Neopsylla securo kashmirensis* Kulkarni & Bhat, 1972  
23. *Neopsylla stevensi* Rothschild, 1915

**Subfamily: Ctenophthalminae Rothschild, 1915**

**Tribe: Ctenophthalmini Rothschild, 1915**

**13. Genus: *Palaeopsylla* Wagner, 1903**

24. *Palaeopsylla remota* Jordan, 1929

**Infraorder: CERATOPHYLLOMORPHA Medvedev, 1998**

**Superfamily: CERATOPHYLLOIDEA Dampf, 1908**

**Family: Ceratophyllidae Dampf, 1908**

**Subfamily: Ceratophyllinae Dampf, 1908**

**14. Genus: *Callopsylla* Wagner, 1934**

**Subgenus: *Orneacus* Jordan, 1937**

25. *Callopsylla oreinus* (Jordan, 1937)

**15. Genus: *Ceratophyllus* Curtis, 1832**

**Subgenus: *Ceratophyllus* Curtis, 1832**

26. *Ceratophyllus calioetes* Jordan, 1937
27. *Ceratophyllus hirundinis* (Curtis, 1826)
28. *Ceratophyllus orites* Jordan, 1937

**16. Genus: *Macrostylophora* Ewing, 1929**

29. *Macrostylophora fimbriata* (Jordan et Rothschild, 1921)
30. *Macrostylophora hastata sikkimensis* (Jordan et Rothschild, 1922)
31. *Macrostylophora lupata* (Jordan et Rothschild, 1921)
32. *Macrostylophora phillipsi* (Jordan, 1925)

**17. Genus: *Nosopsyllus* Jordan, 1933**

**Subgenus: *Nosopsyllus* Jordan, 1933**

33. *Nosopsyllus alladinis* (Rothschild, 1904)
34. *Nosopsyllus arcotus* (Jordan et Rothschild, 1921)
35. *Nosopsyllus argutus* (Jordan et Rothschild, 1921)
36. *Nosopsyllus fasciatus* (Bosc, 1800)
37. *Nosopsyllus nilgiriensis* (Jordan et Rothschild, 1921)
38. *Nosopsyllus punensis* (Jordan et Rothschild, 1921)
39. *Nosopsyllus punjabensis* (Jordan et Rothschild, 1921)
40. *Nosopsyllus simla* (Jordan et Rothschild, 1921)
41. *Nosopsyllus tamilanus* (Jordan et Rothschild, 1921)
42. *Nosopsyllus vauceli* Klein, 1963

**Family: Leptopsyllidae Rothschild & Jordan, 1915**

**Subfamily: Leptopsyllinae Rothschild & Jordan, 1915**

**Tribe: Acropsyllini Medvedev & Kotti, 1992**

**18. Genus: *Acropsylla* Rothschild, 1911**

43. *Acropsylla episema* Rothschild, 1911

**Tribe: Leptopsyllini Rothschild, 1915**

**19. Genus: *Leptopsylla* Jordan et Rothschild, 1911**

44. *Leptopsylla segnis* (Schonherr, 1811)

**20. Genus: *Peromyscopsylla* I.Fox, 1939**

45. *Peromyscopsylla himalaica* (Rothschild, 1915)
46. *Peromyscopsylla himalaica himalaica* (Rothschild, 1915)

**Family: Ischnopsyllidae Wahlgren, 1907**

**Subfamily: Thaumapsyllinae Jordan, 1947**

**21. Genus: *Thaumapsylla* Rothschild, 1907**

47. *Thaumapsylla breviceps orientalis* Smit, 1954

**Subfamily: Ischnopsyllinae Wahlgren, 1907**  
**Tribe: Ischnopsyllini Wahlgren, 1907**  
**22. Genus: *Ischnopsyllus* Westwood, 1906**  
**Subgenus: *Hexactenopsylla* Oudemans, 1906**

48. *Ischnopsyllus delectabilis* Smit, 1952

49. *Ischnopsyllus indicus* Jordan, 1931

**23. Genus: *Lagaropsylla* Jordan et Rothschild, 1921**

50. *Lagaropsylla putila* Jordan et Rothschild, 1921

**24. Genus: *Rhinolophopsylla* Oudemans, 1909**

51. *Rhinolophopsylla unipectinata indica* Jordan et Rothschild, 1921

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