

FAUNA OF INDIA CHECKLIST

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ARTHROPODA: INSECTA: BLATTODEA

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(Cockroaches)

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Comments on the checklist:

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ZOOLOGICAL SURVEY OF INDIA
Ministry of Environment, Forest & Climate Change

ARTHROPODA: INSECTA: BLATTODEA

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Introduction: Cockroaches are among the most primitive pterygotes, the earliest fossils records dating back to about 400 million years during the pre-carboniferous period (Cornwall, 1968). Fortunately less than 1 percent of the species are known to be pests and affect public health. In India a total of 181 species under 72 genera belonging to 6 families are reported (Gupta and Chandra 2019). Cockroaches being generalist feeders play an important ecological role as they are capable of digesting a wide range of substances due to the variety of symbiotic bacteria and protozoa present in their digestive systems. They form an indispensable part of the food web as they feed on forest litter and animal fecal matter and they in turn become prey for many animals including small mammals, birds, amphibians and lizards.

Global diversity: Globally, 5793 species under 521 genera belonging to 12 families (Beccaloni, 2014) are known, except for Antarctica.

Diversity in India: In India, 179 species belonging to 65 genera and 7 families in three super families are recorded.

Diversity in States (Table)

Sl.No.	State/Union Territory	No. Species	No. Endemic Species
1	Andhra Pradesh	23	10
2	Arunachal Pradesh	25	3
3	Assam	32	5
4	Bihar	9	2
5	Chhattisgarh	4	1
6	Gujarat	6	1
7	Goa	5	0
8	Haryana	4	0
9	Himachal Pradesh	10	4
10	Jharkhand	8	1
11	Karnataka	27	4
12	Kerala	20	11
13	Madhya Pradesh	7	1
14	Maharashtra	35	11
15	Manipur	11	0
16	Meghalaya	27	4
17	Mizoram	4	0
18	Nagaland	12	2

Sl.No.	State/Union Territory	No. Species	No. Endemic Species
19	Odisha	25	5
20	Punjab	5	0
21	Rajasthan	4	0
22	Sikkim	24	3
23	Tamil Nadu	80	42
24	Telangana	27	10
25	Tripura	11	0
26	Uttar Pradesh	12	0
27	Uttarakhand	7	0
28	West Bengal	42	7
29	Andaman & Nicobar	15	2
30	Chandigarh	4	0
31	Dadra Nagar Haveli, Daman & Diu	4	0
32	Delhi	6	0
33	Jammu & Kashmir	7	1
34	Ladakh	7	0
35	Lakshadweep	8	1
36	Puducherry	8	3
	State Unknown	17	17
	TOTAL	179	83

Endemism: Eighty-three species are endemic to India. High endemism is reported from the Western Ghats of Tamil Nadu, Kerala, Karnataka. Among this, distribution of 17 species are unknown.

Habitat: Apart from being the most prevalent household pests, cockroaches are also seen to inhabit leaf litter, tree barks and rotting logs, especially in tropical forests. It is interesting to note that some cockroaches are semi-aquatic while some are found as commensal in the nest of ants, wasps or termites.

Ecological Significance: Cockroaches being generalist feeders they play an important ecological role in litter degradation and soil fauna. They are important prey species to many vertebrates and invertebrates.

Human Significance: Cockroaches are of significant public health concern as they can act as hosts, reservoirs and carriers of pathogenic microbes and sometimes play a major role as carriers of intestinal diseases. The filthy behaviour of cockroaches coupled with their nocturnal lifestyle make them ideal vectors for a wide range of pathogens such as *Escherichia coli*, *Pseudomonas aeruginosa*, *Klebsiella* spp., *Shigella dysenteriae*, *Bacillus cereus*, and *Entamoeba histolytica*.

Threatened species: Species from India are not assessed for IUCN threat categories.

Protected Species as per WPA (2022): Cockroaches are not listed under any schedules of Wildlife Protection Act (2022).

Species under CITES: Indian cockroaches are not listed under any appendices of CITES.

Invasive alien species: Some of the species listed as Invasive alien species to India namely *Pycnoscelus surinamensis* (Linnaeus, 1758), *Blattella germanica* (Linnaeus, 1767), *Periplaneta americana* (Linnaeus, 1758), *Periplaneta australasiae* (Fabricius, 1775).

Gap areas: Cockroaches are poorly documented from many states, especially from western Himalaya (Uttarakhand), north-east (Manipur, Mizoram) and islands of India. Many species are known only from type collection and not reported for more than last fifty years.

Systematic list:

Order BLATTODEA

Superfamily BLABEROIDEA Saussure, 1864

Family BLABERIDAE Saussure, 1864

Subfamily DIPLOPTERINAE

Genus *Diploptera* Saussure, 1864

1. *Diploptera punctata* (Eschscholtz, 1822)

Subfamily EPILAMPRINAE Brunner von Wattenwyl, 1865

Genus *Aptera* Saussure, 1864

2. *Aptera brindlei* Anisyutkin 2017

Genus *Calolampra* Saussure, 1893

3. *Calolampra irrorata* (Fabricius, 1775)

Genus *Calolamprodes* Bei-Bienko, 1969

4. *Calolamprodes calolamprodes characterosa* (Walker, 1868)

Genus *Indoapterolampra* Anisyutkin, 2014

5. *Indoapterolampra rugosiuscula* Anisyutkin, 2014

Genus *Opisthoptia* Brunner von Wattenwyl, 1865

6. *Opisthoptia orientalis* (Burmeister, 1838)

Genus *Princisola* Gurney & Roth, 1976

7. *Princisola pulchra* (Shelford, 1910)

Genus *Rhabdoblattella* Anisyutkin, 2000

8. *Rhabdoblattella alexeevi* Anisyutkin, 2017

9. *Rhabdoblattella euptera* Anisyutkin, 2017

Genus *Rhicnoda* Brunner von Wattenwyl, 1865

10. *Rhicnoda natatrix* Shelford, 1907

Genus *Haanina* Hebard, 1929

11. *Haanina cariniceps* (Bolívar, 1897)

12. *Haanina maindroni* (Shelford, 1910)

13. *Haanina major* (Saussure, 1895)

14. *Haanina patinifera* (Bolívar, 1897)

Genus *Morphna* Shelford, 1910

15. *Morphna amplipennis* (Walker, 1868)

16. *Morphna auriculata* (Brunner von Wattenwyl, 1865)

17. *Morphna decolyi* (Bolívar, 1897)

18. *Morphna indica* Anisyutkin, 2017

19. *Morphna lucida* Anisyutkin, 2014

20. *Morphna plana* (Brunner von Wattenwyl, 1865)

Genus *Rhabdoblatta* Kirby, 1903

21. *Rhabdoblatta excelsa* (Navás, 1904)

22. *Rhabdoblatta lineaticollis* (Bolívar, 1897)

23. *Rhabdoblatta melanosoma* (Saussure, 1869)

24. *Rhabdoblatta ridleyi* (Kirby, 1903)

25. *Rhabdoblatta simlansis* (Bajjal & Kapoor, 1966)

26. *Rhabdoblatta subsparsa* (Walker, 1868)

Genus **Stictolampra** Hanitsch, 1930

27. *Stictolampra buqueti* (Serville, 1839)
 28. *Stictolampra plicata* (Navás, 1904)

Genus **Phlebonotus** Saussure, 1862

29. *Phlebonotus anomalus* Saussure, 1863
 30. *Phlebonotus pallens* (Serville, 1831)

Genus **Thorax** Saussure, 1862

31. *Thorax porcellana* (Saussure, 1862)

Subfamily OXYHALOINAE

Genus **Nauphoeta** Burmeister, 1838

32. *Nauphoeta cinerea* (Olivier, 1789)

Subfamily PANESTHIINAE

Genus **Caeparia** Stål, 1877

33. *Caeparia saussurei* (Wood-Mason, 1876)

Genus **Microdina** Kirby, 1903

34. *Microdina forceps* (Saussure, 1869)

Genus **Miopanesthia** Saussure, 1895

35. *Miopanesthia bigibbosa* Saussure, 1895
 36. *Miopanesthia discoidalis* Saussure, 1895

Genus **Panesthia** Serville, 1831

37. *Panesthia angustipennis angustipennis* (Illiger, 1801)
 38. *Panesthia angustipennis cognata* Bei-Bienko, 1969
 39. *Panesthia birmanica* Brunner von Wattenwyl, 1893
 40. *Panesthia cribrata* Saussure, 1864
 41. *Panesthia flavipennis* Wood-Mason, 1876
 42. *Panesthia lucanoides* (Butler, 1882)
 43. *Panesthia missimensis* Roth, 1979
 44. *Panesthia monstrosa* Wood-Mason, 1876
 45. *Panesthia morosa* Kirby, 1903
 46. *Panesthia morsus* (Butler, 1882)
 47. *Panesthia necrophoroides* Walker, 1868
 48. *Panesthia paramonstruosa* Roth, 1979,
 49. *Panesthia plagiata* Walker, 1859
 50. *Panesthia pygmaea* Princis, 1951
 51. *Panesthia quinquentata* Kirby, 1903
 52. *Panesthia regalis* Walker, 1868
 53. *Panesthia serrata* Saussure, 1895
 54. *Panesthia stellata stellata* Saussure, 1895
 55. *Panesthia wallacei* Wood-Mason, 1876

Genus **Salganea** Stål, 1877

56. *Salganea biglumis* (Saussure, 1895)
 57. *Salganea cavagnaroi* Roth, 1979
 58. *Salganea erythronota* Bolívar, 1897
 59. *Salganea incerta* (Brunner von Wattenwyl, 1893)
 60. *Salganea indica* Princis, 1953
 61. *Salganea kodaikanalensis* Roth, 1979
 62. *Salganea morio* (Burmeister, 1838)
 63. *Salganea passaloides passaloides* (Walker, 1868)
 64. *Salganea raggei* Roth, 1979
 65. *Salganea rehni* Roth, 1979

Subfamily PARANAUPHOETINAE

Genus **Paranauphoeta** Brunner von Wattenwyl, 1865

66. *Paranauphoeta circumdata* (Haan, 1842)
 67. *Paranauphoeta indica* Saussure & Zehntner, 1895
 68. *Paranauphoeta limbata* Saussure, 1869
 Subfamily PERISPHAERINAE Brunner von Wattenwyl, 1865
 Genus **Corydidarum** Brunner von Wattenwyl, 1865
 69. *Corydidarum guerini* (Saussure & Zehntner, 1895)
 70. *Corydidarum humbertiana* (Saussure, 1863)
 71. *Corydidarum sericea* (Saussure, 1863)
 Genus **Perisphaerus** Serville, 1831
 72. *Perisphaerus altus* (Walker, 1868)
 73. *Perisphaerus armadillo* Serville, 1831
 74. *Perisphaerus cotesianus* (Saussure & Zehntner, 1895)
 75. *Perisphaerus flavicornis* (Burmeister, 1838)
 Genus **Pseudoglomeris** Brunner Von Wattenwyl, 1893
 76. *Pseudoglomeris glomeris* (Saussure, 1863)
 77. *Pseudoglomeris terranea* (Walker, 1871)
 Subfamily PYCNOSCELINAE
 Genus **Pycnoscelus** Scudder, 1862
 78. *Pycnoscelus indicus* (Fabricius, 1775)
 79. *Pycnoscelus nigra* (Brunner von Wattenwyl, 1865)
 80. *Pycnoscelus surinamensis* (Linnaeus, 1758)
 81. *Pycnoscelus tenebriger* (Walker, 1868)
 Genus **Stilpnoblatta** Saussure & Zehntner, 1895
 82. *Stilpnoblatta opaca* (Walker, 1868)
 Family BLATTELLIDAE
 Genus **Anaplectella** (Hanitsch, 1928)
 83. *Anaplectella indica* (Bei-Bienko, 1969)
 84. *Anaplectella subrotundata* (Walker, 1871)
 Genus **Blattella** Caudell, 1903
 85. *Blattella asahinai* Mizukubo, 1981
 86. *Blattella biligata* (Walker, 1868)
 87. *Blattella bisignata* (Brunner von Wattenwyl, 1893)
 88. *Blattella confusa* Princis, 1950
 89. *Blattella germanica* (Linnaeus, 1767)
 90. *Blattella humbertiana* (Saussure, 1863)
 91. *Blattella lituricollis* (Walker, 1868)
 92. *Blattella padmanabhani* (Roth, 1995)
 93. *Blattella parvula* Bey-Bienko, 1954
 94. *Blattella teressensis* (Roth, 1985)
 95. *Blattella vaga* Hebard, 1935
 Genus **Episymphloe** Bei-Bienko, 1950
 96. *Episymphloe annulifera* (Walker, 1871)
 97. *Episymphloe brevipes* (Walker, 1871)
 98. *Episymphloe himalayica* (Brunner von Wattenwyl, 1865)
 99. *Episymphloe kuluana* Roth, 1987
 100. *Episymphloe suknana* Roth, 1987
 101. *Episymphloe telephoroides* (Walker, 1871)
 Genus **Haplosymphloe** Hanitsch, 1933
 102. *Haplosymphloe andamanica* (Princis, 1951)
 Genus **Hemithyrsocera** Saussure, 1893
 103. *Hemithyrsocera alagara* Roth, 1995
 104. *Hemithyrsocera ignobilis* Shelford, 1906

105. *Hemithyrsocera lycoides* (Walker, 1871)
 106. *Hemithyrsocera nathani* Roth, 1995
 107. *Hemithyrsocera palliata* (Fabricius, 1798)
 108. *Hemithyrsocera suspecta* Bolívar, 1897
 109. *Hemithyrsocera vittata* (Brunner von Wattenwyl, 1865)
 Genus **Jacobsonina** Hebard, 1929
 110. *Jacobsonina platysoma* (Walker, 1868)
 Genus **Lobopterella** Princis, 1957
 111. *Lobopterella dimidiatipes* (Bolívar, 1890)
 Genus **Malaccina** Hebard, 1929
 112. *Malaccina pallidula* (Bolívar, 1897)
 Genus **Neoloboptera** Princis, 1953
 113. *Neoloboptera chakrabortyi* Roth, 1995
 114. *Neoloboptera indica* (Brunner von Wattenwyl, 1865)
 Genus **Parcoblatta** Hebard, 1917
 115. *Parcoblatta pennsylvanica* (De Geer, 1773)
 Genus **Symploce** Hebard, 1916
 116. *Symploce indica* (Brunner von Wattenwyl, 1865)
 Genus **Symplocodes** Hebard, 1929
 117. *Symplocodes impar* Bey-Bienko, 1969
 Family ECTOBIIDAE Brunner von Wattenwyl, 1865
 Genus **Blattellina** Princis, 1951
 118. *Blattellina indica* Princis, 1951
 Genus **Eublattella** Princis, 1950
 119. *Eublattella latistriga* (Walker, 1868)
 Genus **Hemipterisca** Bei-Bienko, 1950
 120. *Hemipterisca submarginata* (Walker, 1871)
 Subfamily ECTOBIINAE Brunner von Wattenwyl, 1865
 Genus **Ectobius** Stephens, 1835
 121. *Ectobius (Ectobius) indicus* Bei-Bienko, 1938
 122. *Ectobius (Ectobius) jarringi* (Hanitsch, 1937)
 Family PSEUDOPHYLLODROMIIDAE
 Genus **Allacta** Saussure & Zehntner, 1895
 123. *Allacta crassivenosa* Bolívar, 1897
 124. *Allacta diluta* (Saussure, 1863)
 125. *Allacta figurata* (Walker, 1871)
 126. *Allacta kalakadensis* Prabakaran; Senraj and Lucanas 2019
 127. *Allacta jcenpro* Senraj *et.al.*, 2021
 128. *Allacta kollimalai* Senraj *et.al.*, 2021
 129. *Allacta vellimalai* Senraj *et.al.*, 2021
 Genus **Balta** Tepper, 1893
 130. *Balta acutiventris* (Chopard, 1924)
 131. *Balta chopardi* Princis, 1969
 132. *Balta reticulata* (Fabricius, 1798)
 Genus **Lupparia** Walker, 1868
 133. *Lupparia ferruginea* (Brunner von Wattenwyl, 1865) East India
 134. *Lupparia unguiculata* (Bolívar, 1897)
 Genus **Pseudectobia** Saussure, 1869
 135. *Pseudectobia luneli* (Saussure, 1868)
 Genus **Supella** Shelford, 1911
 136. *Supella (Supella) longipalpa* (Fabricius, 1798)
 Superfamily BLATTOIDEA Latreille, 1810

Family BLATTIDAE Latreille, 1810

Subfamily BLATTINAE Latreille, 1810

Genus *Archiblatta* Snellen van Vollenhoven, 1862

137. *Archiblatta phalangium* (Saussure, 1864)

Genus *Blatta* Linnaeus, 1758

138. *Blatta orientalis* Linnaeus, 1758

Genus *Cartoblatta* Shelford, 1910

139. *Cartoblatta speciosa* (Shelford, 1910)

Genus *Dorylaea* Stal, 1877

140. *Dorylaea semimarginalis* (Hanitsch, 1915)

Genus *Homalosilpha* Stål, 1874

141. *Homalosilpha decorata* (Serville, 1838)

142. *Homalosilpha ustulata* (Burmeister, 1838)

Genus *Neostylopyga* Shelford, 1911

143. *Neostylopyga maindroni* (Shelford, 1911)

144. *Neostylopyga rhombifolia* (Stoll, 1813)

145. *Neostylopyga ornata* (Brunner von Wattenwyl, 1865)

146. *Neostylopyga parallela* (Bolívar, 1897)

147. *Neostylopyga picea* (Brunner von Wattenwyl, 1865)

148. *Neostylopyga sexpustulata* (Walker, 1871)

Genus *Periplaneta* Burmeister, 1838

149. *Periplaneta affinis* Saussure, 1869

150. *Periplaneta americana* (Linnaeus, 1758)

151. *Periplaneta atemeleta* Princis, 1966

152. *Periplaneta australasiae* (Fabricius, 1775)

153. *Periplaneta brunnea* Burmeister, 1838

154. *Periplaneta ceylonica* Karny, 1908

155. *Periplaneta ebneri* Princis, 1951

156. *Periplaneta fuliginosa* Serville, 1838

157. *Periplaneta lateralis* Walker, 1868

158. *Periplaneta monochroma* Walker, 1871

Subfamily HEBARDININAE Deng & Che, 2022

Genus *Hebardina* Bei-Bienko, 1938

159. *Hebardina concinna* (Haan, 1842)

Subfamily POLYZOSTERIINAE

Genus *Melanozosteria* Stål, 1874

160. *Melanozosteria castanea* (Brunner von Wattenwyl, 1865)

Genus *Platyzosteria* Brunner von Wattenwyl, 1865

161. *Platyzosteria melanaria* (Erichson, 1842)

Superfamily CORYDIOIDEA Saussure, 1864

Family CORYDIIDAE Saussure, 1864

Genus *Ipolatta* Karny, 1914

162. *Ipolatta paradoxa* Karny, 1914

Subfamily CORYDIINAE Saussure, 1864

Genus *Eucorydia* Hebard, 1929

163. *Eucorydia aeneaenea* (Brunner von Wattenwyl, 1865)

164. *Eucorydia aeneaplagiata* (Walker, 1868)

165. *Eucorydia ornata* (Saussure, 1864)

166. *Eucorydia westwoodi* (Gerstaecker, 1861)

Genus *Polyphaga* Brullé, 1835

167. *Polyphaga indica indica* Walker, 1868

168. *Polyphaga saussurei* (Dohrn, 1888)

Genus *Therea* Billberg, 1820

- 169. *Therea bernhardti* Fritzsche, 2009
- 170. *Therea defranceschii* Grandcolas, 1993
- 170. *Therea hyperguttata* Grandcolas, 1993
- 172. *Therea irreperta* Fritzsche, 2009
- 173. *Therea nuptialis* (Gerstaecker, 1861)
- 174. *Therea olegrandjeani* Fritzsche & Zompro, 2008
- 175. *Therea petiveriana* (Linnaeus, 1758)
- 176. *Therea regularis* Grandcolas, 1993

Genus *Ergaula* Walker, 1868

- 177. *Ergaula nepalensis* (Saussure, 1893)

Family NOCTICOLIDAE Bolívar, 1892

Genus *Alluaudellina* (Chopard, 1932)

- 178. *Alluaudellina himalayensis* (Gravely, 1910)

Genus *Typhloblatta* (Chopard, 1924)

- 179. *Typhloblatta caeca* (Chopard, 1921)

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