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ARTHROPODA: INSECTA: BLATTODEA

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Comments on the checklist:

E-mail your comments and suggestions to improve the checklist to zsifaunachecklists@gmail.com and sennraj@gmail.com

FAUNA OF INDIA CHECKLIST



ARTHROPODA: INSECTA: BLATTODEA

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Introduction: Cockroaches are among the most primitive pterygotes, the earliest fossils dating back to about 400 million years fossil records reveal their abundance during the pre-carboniferous period (Cornwall, 1968) and fortunately less than 1 percent of the total population are known to be pests and affect public health. In India, there are about a total of 181 species under 72 genera belonging to 6 families so far reported from India (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 faecal matter and they in turn become food for many animals including small mammals, birds, amphibians and lizards.

Global diversity: Globally, 5733 species accommodated under 790 genera belonging to 12 families (Beccaloni, 2014) distributed globally, except for Antarctica.

Diversity in India: In India, 180 species belonging to 63 genera and 7 families in 3 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	28	4
12	Kerala	20	11
13	Madhya Pradesh	7	1
14	Maharashtra	35	11



Sl.No.	State/Union Territory	No. Species	No. Endemic Species
15	Manipur	11	0
16	Meghalaya	27	3
17	Mizoram	4	0
18	Nagaland	12	1
19	Odisha	25	5
20	Punjab	5	0
21	Rajasthan	4	0
22	Sikkim	24	4
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	6
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	0
34	Ladakh	7	0
35	Lakshadweep	8	1
36	Puducherry	8	3
	State Unknown	17	10
	TOTAL	180	84

Endemism: 84 species are endemic to India. High endemism is reported from the Western Ghats hill streams of Tamil Nadu, Kerala, Karnataka and hill streams of Himachal Pradesh and Arunachal Pradesh. Among this 17 species are unknown states.

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 commensalism in the nest of ants, wasps or termites.

Ecological Significance: 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 faecal matter and they in turn become food for many animals including small mammals, birds, amphibians and lizards.

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 CALOLAMPRODINAE Wang & Wang, 2023

Genus *Calolamprodes* Bei-Bienko, 1969

1. *Calolamprodes Calolamprodes characterosa* (Walker, 1868)

Subfamily DIPLOPTERINAE

Genus *Diploptera* Saussure, 1864

2. *Diploptera punctata* (Eschscholtz, 1822)

Subfamily EPILAMPRIINAE Brunner von Wattenwyl, 1865

Genus *Aptera* Saussure, 1864

3. *Aptera brindleyi* Anisyutkin 2017

Genus *Calolampra* Saussure, 1893

4. *Calolampra irrorata* (Fabricius, 1775)

Genus *Princisola* Gurney & Roth, 1976

5. *Princisola pulchra* (Shelford, 1910)

Tribe **Morphnini** McKittrick, 1964

Genus *Indoapterolampra* Anisyutkin, 2014

6. *Indoapterolampra rugosiuscula* Anisyutkin, 2014

Genus *Opisthoplatia* Brunner von Wattenwyl, 1865

7. *Opisthoplatia orientalis* (Burmeister, 1838)

Genus *Rhcnoda* Brunner von Wattenwyl, 1865

8. *Rhcnoda natatrix* Shelford, 1907

Genus *Haanina* Hebard, 1929

9. *Haanina cariniceps* (Bolívar, 1897)

10. *Haanina maindroni* (Shelford, 1910)

11. *Haanina major* (Saussure, 1895)

12. *Haanina patinifera* (Bolívar, 1897)

Genus *Morphna* Shelford, 1910

13. *Morphna amplipennis* (Walker, 1868)

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

15. *Morphna decolyi* (Bolívar, 1897)

16. *Morphna indica* Anisyutkin, 2017

17. *Morphna lucida* Anisyutkin, 2014

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



Genus **Rhabdoblatta** Kirby, 1903

19. *Rhabdoblatta excelsa* (Navás, 1904)
20. *Rhabdoblatta lineaticollis* (Bolívar, 1897)
21. *Rhabdoblatta melanosoma* (Saussure, 1869)
22. *Rhabdoblatta ridleyi* (Kirby, 1903)
23. *Rhabdoblatta simlansis* (Bajjal & Kapoor, 1966)
24. *Rhabdoblatta subsparsa* (Walker, 1868)

Genus **Stictolampra** Hanitsch, 1930

25. *Stictolampra buqueti* (Serville, 1839)
26. *Stictolampra plicata* (Navás, 1904)

Tribe **Thoracini** Rehn, 1951

Genus **Phlebonotus** Saussure, 1862

27. *Phlebonotus anomalus* Saussure, 1863
28. *Phlebonotus pallens* (Serville, 1831)

Genus **Thorax** Saussure, 1862

29. *Thorax porcellana* (Saussure, 1862)

Subfamily Rhabdoblattellinae Wang & Wang, 2023

Genus **Rhabdoblattella** Anisyutkin, 1999

30. *Rhabdoblattella alexeevi* Anisyutkin, 2017
31. *Rhabdoblattella euptera* Anisyutkin, 2017

Subfamily OXYHALOINAE

Tribe Nauphoetini

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 paramonstrosa* 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* 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* Bolivar, 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 **Perisphaerus** Serville, 1831

69. *Perisphaerus altus* (Walker, 1868)
70. *Perisphaerus armadillo* Serville, 1831
71. *Perisphaerus cotesianus* (Saussure & Zehntner, 1895)
72. *Perisphaerus flavicornis* (Burmeister, 1838)

Genus **Pseudoglomeris** Brunner Von Wattenwyl, 1893

73. *Pseudoglomeris Pseudoglomeris glomeris* (Saussure, 1863)
74. *Pseudoglomeris Pseudoglomeris terranea* (Walker, 1871)
75. *Pseudoglomeris guerini* (Saussure & Zehntner, 1895)
76. *Pseudoglomeris humbertiana* (Saussure, 1863)
77. *Pseudoglomeris sericea* (Saussure, 1863)

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 Karny, 1921

Genus **Blattellina** Princis, 1951

83. *Blattellina indica* Princis, 1951

Genus **Eublattella** Princis, 1950

84. *Eublattella latistriga* (Walker, 1868)

Genus **Hemipterisca** Bei-Bienko, 1950

85. *Hemipterisca submarginata* (Walker, 1871)

Genus **Jacobsonina** Hebard, 1929

86. *Jacobsonina platysoma* (Walker, 1868)

Genus **Neoloboptera** Princis, 1953

87. *Neoloboptera chakrabortyi* Roth, 1995
88. *Neoloboptera indica* (Brunner von Wattenwyl, 1865)

Subfamily BLATTELLINAE Karny, 1908

Tribe Blattellini Rehn, 1951

Genus **Blattella** Caudell, 1903

89. *Blattella asahinai* Mizukubo, 1981
90. *Blattella biligata* (Walker, 1868)
91. *Blattella bisignata* (Brunner von Wattenwyl, 1893)



92. *Blattella confusa* Princis, 1950
 93. *Blattella germanica* (Linnaeus, 1767)
 94. *Blattella humbertiana* (Saussure, 1863)
 95. *Blattella lituricollis* (Walker, 1868)
 96. *Blattella padmanabhani* (Roth, 1995)
 97. *Blattella parvula* Bey-Bienko, 1954
 98. *Blattella teressensis* (Roth, 1985)
 99. *Blattella vaga* Hebard, 1935
 Tribe Symplocini Rehn, 1951
 Genus **Episymploce** Bei-Bienko, 1950
 100. *Episymploce annulifera* (Walker, 1871)
 101. *Episymploce brevipes* (Walker, 1871)
 102. *Episymploce himalayica* (Brunner von Wattenwyl, 1865)
 103. *Episymploce kuluana* Roth, 1987
 104. *Episymploce sukmana* Roth, 1987
 105. *Episymploce telephoroides* (Walker, 1871)
 Genus **Haplosymploce** Hanitsch, 1933
 106. *Haplosymploce andamanica* (Princis, 1951)
 Genus **Symploce** Hebard, 1916
 107. *Symploce indica* (Brunner von Wattenwyl, 1865)
 Tribe Hemithysocerini Evangelista, 2020
 Genus **Hemithysocera** Saussure, 1893
 108. *Hemithysocera alagara* Roth, 1995
 109. *Hemithysocera ignobilis* Shelford, 1906
 110. *Hemithysocera lycoides* (Walker, 1871)
 111. *Hemithysocera nathani* Roth, 1995
 112. *Hemithysocera palliata* (Fabricius, 1798)
 113. *Hemithysocera suspecta* Bolívar, 1897
 114. *Hemithysocera vittata* (Brunner von Wattenwyl, 1865)
 Genus **Lobopterella** Princis, 1957
 115. *Lobopterella dimidiatipes* (Bolívar, 1890)
 Genus **Symplocodes** Hebard, 1929
 116. *Symplocodes impar* Bey-Bienko, 1969
 Genus **Parcoblatta** Hebard, 1917
 117. *Parcoblatta pennsylvanica* (De Geer, 1773)
 Family ECTOBIIDAE Brunner von Wattenwyl, 1865
 Subfamily ECTOBIINAE Brunner von Wattenwyl, 1865
 Genus **Ectobius** Stephens, 1835
 118. *Ectobius Ectobius indicus* Bei-Bienko, 1938
 119. *Ectobius Ectobius jarringi* (Hanitsch, 1937)
 Family PSEUDOPHYLLODROMIIDAE Hebard, 1929
 Genus **Pseudectobia** Saussure, 1869
 120. *Pseudectobia luneli* (Saussure, 1868)
 Subfamily ANAPLECTOIDINAE Wang & Wang, 2023
 Genus **Anaplectella** (Hanitsch, 1928)
 121. *Anaplectella indica* (Bei-Bienko, 1969)
 122. *Anaplectella subrotundata* (Walker, 1871)
 Genus **Malaccina** Hebard, 1929
 123. *Malaccina pallidula* (Bolívar, 1897)
 Subfamily PSEUDOPHYLLODROMIINAE Hebard, 1929
 Tribe Pseudophyllodromiini Hebard, 1929
 Genus **Allacta** Saussure & Zehntner, 1895
 124. *Allacta crassivenosa* Bolívar, 1897



125. *Allacta diluta* (Saussure, 1863)
 126. *Allacta figurata* (Walker, 1871)
 127. *Allacta kalakadensis* Prbakaran & Senraj 2019
 128. *Allacta jcenpro* senraj et.al., 2021
 129. *Allacta kollimalai* senraj et al., 2021
 130. *Allacta vellimalai* senraj et al., 2021
 Genus **Balta** Tepper, 1893
 131. *Balta acutiventris* (Chopard, 1924)
 132. *Balta chopardi* Princis, 1969
 133. *Balta reticulata* (Fabricius, 1798)
 Genus **Lupparia** Walker, 1868
 134. *Lupparia ferruginea* (Brunner von Wattenwyl, 1865)
 135. *Lupparia unguiculata* (Bolívar, 1897)
 Genus **Supella** Shelford, 1911
 136. *Supella Supella longipalpa* (Fabricius, 1798)
 Superfamily BLATTOIDEA Latreille, 1810
 Family BLATTIDAE Latreille, 1810
 Subfamily ARCHIBLATTINAE Kirby, 1904
 Genus **Archiblatta** Snellen van Vollenhoven, 1862
 137. *Archiblatta phalangium* (Saussure, 1864)
 Subfamily BLATTINAE Latreille, 1810
 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 seypustulata* (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. *Shelfordella lateralis* (Walker, 1868)
 158. *Shelfordella 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
Subfamily CORYDIINAE Saussure, 1864
Genus **Ergaula** Walker, 1868
162. *Ergaula nepalensis* (Saussure, 1893)
Genus **Eucorydia** Hebard, 1929
163. *Eucorydia aenea aenea* (Brunner von Wattenwyl, 1865)
164. *Eucorydia aenea plagiata* (Walker, 1868)
165. *Eucorydia ornata* (Saussure, 1864)
166. *Eucorydia westwoodi* (Gerstaecker, 1861)
Genus **Therea** Billberg, 1820
167. *Therea bernhardi* Fritzsche, 2009
168. *Therea defranceschii* Grandcolas, 1993
169. *Therea hyperguttata* Grandcolas, 1993
170. *Therea irreperta* Fritzsche, 2009
171. *Therea nuptialis* (Gerstaecker, 1861)
172. *Therea olegrandjeani* Fritzsche & Zompro, 2008
173. *Therea petiveriana* (Linnaeus, 1758)
174. *Therea regularis* Grandcolas, 1993
Subfamily Euthyrrhaphinae Handlirsch, 1925
Tribe Euthyrrhaphini Handlirsch, 1925
Genus **Euthyrrhapha** Burmeister, 1838
175. *Euthyrrhapha pacifica* (Coquebert de Montbret, 1804)
Tribe Polyphagini Saussure, 1864
Genus **Polyphaga** Brullé, 1835
176. *Polyphaga indica indica* Walker, 1868
177. *Polyphaga saussurei* (Dohrn, 1888)
Family Nocticolidae Bolívar, 1892
Tribe Latindiinae Handlirsch, 1925
Genus **Ipolatta** Karny, 1914
178. *Ipolatta paradoxa* Karny, 1914
Family NOCTICOLIDAE Bolívar, 1892
Genus **Alluauzellina** (Chopard, 1932)
179. *Alluauzellina himalayensis* (Gravely, 1910)
Genus **Typhloblatta** (Chopard, 1924)
180. *Typhloblatta caeca* (Chopard, 1921)

Doubtful Species/Species inquirenda:

1. *Temnopteryx alca* = Unknown *alca* (Bolívar, 1897)
2. *Blattella aterrima* = Unknown *aterrima* (Hanitsch, 1931)
3. *Temnopteryx bicolor* = Unknown *bicolor* (Bolívar, 1897)
4. *Epilampra blattoides* = Unknown *blattoides* (Saussure, 1863)
5. *Blatta bolivari* = Unknown *bolivari* (Princis, 1969)
6. *Ceratinoptera dispar* = Unknown *dispar* (Chopard, 1924)
7. *Polyzosteria indica* = Unknown *indica* (Saussure, 1863)
8. *Ceratinoptera induta* = Unknown *induta* (Bolívar, 1897).
9. *Temnopteryx martini* = Unknown *martini* (Bolívar, 1897)
10. *Mallotoblatta obscura* = Unknown *obscura* (Shelford, 1906)
11. *Ischnoptera ramosa* = Unknown *ramosa* (Saussure, 1869)



12. *Blatta truncata* = Unknown *truncata* (Saussure, 1863)
13. *Temnopteryx obscura* = Unknown *obscura* (Saussure, 1869)

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