

CHECKLIST OF INDIAN HORSE AND DEER FLIES (INSECTA: DIPTERA: TABANIDAE)

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Tabanus (Tabanus) striatus Fabricius, 1787

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The family Tabanidae belongs to the suborder Brachycera and infraorder Tabanomorpha. Members of this family are commonly known as horse flies (*Tabanus*), deer flies (*Chrysops*), and clegs (*Haematopota*). Adult Tabanid flies are large with broad bodies and bulging eyes. Sexes are easily differentiated on the basis of eyes; they are contiguous in males and widely separated in females. The antennae are porrect and horn-like. Wings are transparent or clouded, banded or striped or with mottled infuscations. The thorax and abdomen are usually striped or banded with various colours.

The adults of both sexes feed on nectar and pollen of flowers, honeydew or on plant juice. Females of most species have piercing mandibles and also take blood meals. They can be serious pests of cattle, horses, and other mammals and may be very annoying to man with their persistent attacks. These flies are facultative haematophagous ectoparasites, thus important from medical and veterinary point of view. They are efficient mechanical carriers of various diseases and responsible for transmission of more than 25 animal diseases.

Recently Veer (2004) reviewed studies carried out on the family Tabanidae from the Indian Subregion with a few additions to Indian fauna by Mitra, *et al* (2007), bringing the number of known species / subspecies from India to **244** species / subspecies under **15** genera.

ORDER: DIPTERA
SUBORDER :BRACHYCERA
INFRAORDER :TABANOMORPHA
FAMILY: TABANIDAE
Subfamily :Pangoniinae
Tribe :Philolichini

1. Genus *Philoliche* Wiedemann, 1928

1. *Philoliche amboinensis* (Fabricius, 1805)
2. *Philoliche haroldi* Chvala, 1969
3. *Philoliche korosicsomana* (Szilady, 1926)
4. *Philoliche longirostris* (Hardwick), 1823
5. *Philoliche macquartiana* Chavala, 1969

6. *Philoliche taprobanes* (Walker, 1854)

7. *Philoliche varipes* (Ricardo, 1911)

Subfamily: Chrysopsinae

Tribe: Bouvieromyiini

2. Genus *Gressittia* Philip & Mackerras, 1961

8. *Gressittia apicalis* Philip & Mackerras, 1961

9. *Gressittia nepalensis* Philip & Mackerras, 1961

Tribe: Chrysopsini

3. Genus *Chrysops* Meigen, 1803.

10. *Chrysops designatus* Ricardo, 1911

11. *Chrysops dispar* (Fabricius, 1798)

12. *Chrysops dubiens* Philip, 1979

13. *Chrysops fasciatus* Wiedemann, 1821

14. *Chrysops flavipes* Meigen, 1804

15. *Chrysops flavocinctus* Ricardo, 1902

16. *Chrysops indianus* Ricardo, 1902

17. *Chrysops pellucidus* Fabricius, 1905

18. *Chrysops pettigrewi* Ricardo, 1913

19. *Chrysops silviaris* Philip & Mackerras, 1961

20. *Chrysops stimulans* Walker, 1850

21. *Chrysops terminalis* Walker, 1848

4. Genus *Melissomorpha* Ricardo, 1906

22. *Melissomorpha indiana* Ricardo, 1906

5. Genus *Silvius* Meigen, 1826

23. *Silvius (Silvius) indianus* Ricardo, 1911

24. *Silvius (Silvius) ornatus* Philip & Mackerras, 1961

Tribe : Rhinomyzini

6. Genus *Gastroxides* Saunders, 1841

- 25. *Gastroxides ater* Saunders, 1841
- 26. *Gastroxides ornatus* (Bigot, 1859)

Subfamily: Tabaninae

Tribe : Diachloriini

7. Genus *Cydistomyia* Taylor, 1911

- 27. *Cydistomyia aberrans* Philip, 1970
- 28. *Cydistomyia (Cydistomyia) assamensis* Philip, 1970
- 29. *Cydistomyia (Cydistomyia) indiana* Philip, 1970
- 30. *Cydistomyia (Cydistomyia) mouchai* Philip, 1970
- 31. *Cydistomyia (Cydistomyia) nigropicta* (Macquart, 1855)
- 32. *Cydistomyia (Cydistomyia) polyzona* (Szilady, 1926)
- 33. *Cydistomyia (Tabanotelum) primitiva* (Meckerras, 1962)
- 34. *Cydistomyia (Tabanotelum) secunda* (Meckerras, 1962)

8. Genus *Lissimas* Enderlein, 1922

- 35. *Lissimas acallus* (Szilady), 1926

9. Genus *Philipota*, Kapoor, 1991

- 36. *Philipota kanpurensis* Kapoor, 1988
- 37. *Philipota ludhianaensis* Kapoor, 1988

Tribe : Haematopotini

10. Genus *Haematopota* Meigen, 1803

- 38. *Haematopota adjusta* Stone & Philip, 1974
- 39. *Haematopota albimedia* Stone & Philip, 1974
- 40. *Haematopota albofasciatipennis* Brunetti, 1912
- 41. *Haematopota alticola*, Philip, 1961
- 42. *Haematopota alyta* Stone & Philip, 1974

43. *Haematopota amala* Stone & Philip, 1974
44. *Haematopota annandalei* Ricardo, 1911
45. *Haematopota assamensis* Ricardo, 1911
46. *Haematopota barri* Stone & Philip, 1974
47. *Haematopota bicolor* Stone & Philip, 1974
48. *Haematopota biguttata* Stone & Philip, 1974
49. *Haematopota biharensis* Stone & Philip, 1974
50. *Haematopota bileneata* Ricardo, 1911
51. *Haematopota biroi* Szilady, 1926
52. *Haematopota brevis* Ricardo, 1906
53. *Haematopota cana* Walker, 1848
54. *Haematopota casca* Stone & Philip, 1974
55. *Haematopota cilipes* Bigot, 1890
56. *Haematopota cingalensis* Ricardo, 1906
57. *Haematopota contracta* Stone & Philip, 1974
58. *Haematopota cordigera* Bigot, 1891
59. *Haematopota crossi* Stone & Philip, 1974
60. *Haematopota darjeelingensis* Datta, 1981
61. *Haematopota demellonis* Senior-White, 1922
62. *Haematopota dissimilis* Ricardo, 1911
63. *Haematopota echma* Stone & Philip, 1974
64. *Haematopota equina* Stone & Philip, 1974
65. *Haematopota fasciata* Ricardo, 1911
66. *Haematopota flavicornis* Szilady, 1926
67. *Haematopota flavipunctata* Stone & Philip, 1974
68. *Haematopota hardyi* Stone & Philip, 1974
69. *Haematopota hindostani* Ricardo, 1911
70. *Haematopota immaculata* Ricardo, 1911
71. *Haematopota inconspicua* Ricardo, 1911
72. *Haematopota indiana* Bigot, 1891.
73. *Haematopota javana* Wiedemann, 1821
74. *Haematopota jellisoni* (Philip), 1960
75. *Haematopota kashmirensis* Stone & Philip, 1974

76. *Haematopota keralaensis* Kapoor, 1988
77. *Haematopota lata* Ricardo, 1906
78. *Haematopota latifascia* Ricardo, 1911
79. *Haematopota limbata* Bigot, 1891
80. *Haematopota litoralis*, Ricardo, 1913
81. *Haematopota longipennis* Stone & Philip, 1974
82. *Haematopota malabarica* Stone & Philip, 1974
83. *Haematopota marceli* Stone & Philip, 1974
84. *Haematopota marginata* Ricardo, 1911
85. *Haematopota matherani* Szillady, 1926
86. *Haematopota melloi* Stone & Philip, 1974
87. *Haematopota montana* Ricardo, 1917
88. *Haematopota mouchai* Stone & Philip, 1974
89. *Haematopota mukteswarensis* Kapoor, 1988
90. *Haematopota nathani* Stone & Philip, 1974
91. *Haematopota nigrifrons* Datta & Biswas, 1977
92. *Haematopota oporina* Stone & Philip, 1974
93. *Haematopota pallida* Stone & Philip, 1974
94. *Haematopota pattoni* Stone & Philip, 1974
95. *Haematopota philipi* Chvala, 1969
96. *Haematopota pisinna* Stone & Philip, 1974
97. *Haematopota punctifera* Bigot, 1891
98. *Haematopota rohtakensis* Kapoor, 1988
99. *Haematopota roralis* Fabricius, 1805
100. *Haematopota schmidi* Stone & Philip, 1974
101. *Haematopota sikkimensis* Stone & Philip, 1974
102. *Haematopota singarensis* Stone & Philip, 1974
103. *Haematopota sparsa* Stone & Philip, 1974
104. *Haematopota striata* Stone & Philip, 1974
105. *Haematopota taunggyeensis* Stone & Philip, 1974
106. *Haematopota zophera* Stone & Philip, 1974

11. Genus *Hippocentroides* Philip, 1961

107. *Hippocentroides desmotes* Philip, 1961
108. *Hippocentroides striatipennis* (Brunetti, 1912)

Tribe: Tabanini

12. Genus *Atylotus* Osten Sacken, 1876

109. *Atylotus agrestis* (Wiedemann, 1828)
110. *Atylotus cryptotaxis* Burton, 1978
111. *Atylotus nemocallosus* Ricardo, 1909
112. *Atylotus sudharebsis* Kapoor, 1988
113. *Atylotus virgo* (Wiedemann, 1824)

13. Genus *Hybomitra* Enderlein, 1922

114. *Hybomitra bouvieri*, Phili, 1979
115. *Hybomitra burgeri* Kapoor, 1988
116. *Hybomitra himalayana* (Enderlein, 1925)
117. *Hybomitra hirta* (Walker, 1850)
118. *Hybomitra kalatopensis* Kapoor, 1988
119. *Hybomitra khazziarensis* Kapoor, 1991
120. *Hybomitra lamades* Philip, 1961
121. *Hybomitra peculiaris kashmirianus* Szilady, 1926
122. *Hybomitra tatarica* (Portschinsky, 1887)
123. *Hybomitra tatarica tridentata* Philip, 1979
124. *Hybomitra wyvillei* (Ricardo, 1911)

14. Genus *Tabanus* Linnaeus, 1758

125. *Tabanus (Tabanus) abbreviatus* (Bigot, 1892)
126. *Tabanus (Tabanus) albocostatus* (Bigot, 1892)
127. *Tabanus (Tabanus) albofasciatus* Ricardo, 1911
128. *Tabanus (Tabanus) altermaculatus* Ricardo, 1913
129. *Tabanus (Tabanus) andamanensis* Kapoor et al, 1988
130. *Tabanus (Tabanus) andamanicus* (Bigot, 1892)
131. *Tabanus (Tabanus) andersoni* Philip, 1972

132. *Tabanus (Tabanus) assamensis* (Bigot), 1892
133. *Tabanus (Tabanus) atrohirtus* Ricardo, 1911
134. *Tabanus (Tabanus) attenuatus* Walker, 1848.
135. *Tabanus (Tabanus) auriflammus* Walker, 1848
136. *Tabanus (Tabanus) aurisegmentatus* Schuurmans Stekhoven, 1932
137. *Tabanus (Tabanus) auristriatus* Ricardo, 1911
138. *Tabanus (Tabanus) avittatus* Schuurmans Stekhoven, 1926
139. *Tabanus (Tabanus) aurilineatus* Schuurmans Stekhoven, 1926
140. *Tabanus (Tabanus) biannularis* Philip, 1960
141. *Tabanus (Tabanus) birmanicus* (Bigot, 1892)
142. *Tabanus (Tabanus) biswasi* Datta, 1980
143. *Tabanus (Tabanus) bombayensis* Schuurmans Stekhoven, 1926
144. *Tabanus (Tabanus) bromius* Linnaeus, 1761
145. *Tabanus (Tabanus) brunnipennis* Schuurmans Stekhoven, 1926
146. *Tabanus (Tabanus) caerulescens* Macquart, 1838
147. *Tabanus (Tabanus) ceylonicus* Schiner, 1868
148. *Tabanus (Tabanus) conicus* (Bigot, 1892)
149. *Tabanus (Tabanus) consanguineus* Macquart, 1838
150. *Tabanus (Tabanus) crassus* Walker, 1850
151. *Tabanus (Tabanus) decoratus* Szilády, 1926
152. *Tabanus (Tabanus) demellonis* Senior-White, 1924
153. *Tabanus (Tabanus) destructus* Szilády, 1926
154. *Tabanus (Tabanus) discrepans* Ricardo, 1911
155. *Tabanus (Tabanus) diversifrons* Ricardo, 1911
156. *Tabanus (Tabanus) dominus* Dutta & Das, 1978
157. *Tabanus (Tabanus) dorsilinea* Wiedemann, 1824
158. *Tabanus (Tabanus) excelsus* Ricardo, 1913
159. *Tabanus (Tabanus) explicatus* Walker, 1854
160. *Tabanus (Tabanus) flavicornis subflavicornis* Philip, 1970
161. *Tabanus (Tabanus) flavipus* Schuurmans Stekhoven, 1926
162. *Tabanus (Tabanus) flaviscutellus* Philip, 1962.
163. *Tabanus (Tabanus) frondosus* Szilády, 1926
164. *Tabanus (Tabanus) fulvimeus* Walker, 1848

165. *Tabanus (Tabanus) fuscomaculatus* Ricardo, 1911
166. *Tabanus (Tabanus) gertrudae* Philip, 1911
167. *Tabanus (Tabanus) griseifacies* Schuurmans Stekhoven, 1926
168. *Tabanus (Tabanus) hedlundi* Kapoor, 1991
169. *Tabanus (Tabanus) hisarensis* Vijay Veer, Parashar & Rao, 1999
170. *Tabanus (Tabanus) imparicallosus* Schuurmans Stekhoven, 1926
171. *Tabanus (Tabanus) indianus* Ricardo, 1911
172. *Tabanus (Tabanus) indifferens* Szilády, 1926
173. *Tabanus (Tabanus) indiscriminatus* Ricardo, 1915
174. *Tabanus (Tabanus) internus* Walker, 1848
175. *Tabanus (Tabanus) joidus* (Bigot, 1892)
176. *Tabanus (Tabanus) jucundus* Walker, 1848
177. *Tabanus (Tabanus) kamengensis* Datta & Das, 1978
178. *Tabanus (Tabanus) khasiensis* Ricardo, 1909
179. *Tabanus (Tabanus) kumaonensis* Kapoor, 1988
180. *Tabanus (Tabanus) kumrakomensis* Kapoor et al, 1988
181. *Tabanus (Tabanus) laetitinctus* Becker, 1912
182. *Tabanus (Tabanus) lateralbus* Schuurmans Stekhoven, 1932
183. *Tabanus (Tabanus) laticinctus* Schuurmans Stekhoven, 1926
184. *Tabanus (Tabanus) laleani* Austen, 1920
185. *Tabanus (Tabanus) leucocnematus* (Bigot, 1892)
186. *Tabanus (Tabanus) leucohirtus* Ricardo, 1909
187. *Tabanus (Tabanus) leucopogon* (Bigot, 1892)
188. *Tabanus (Tabanus) limitatus* Stone, 1975
189. *Tabanus (Tabanus) manipurensis* Ricardo, 1913
190. *Tabanus (Tabanus) meghalayensis* Datta & Biswas, 1977
191. *Tabanus (Tabanus) melanognathus* (Bigot, 1890)
192. *Tabanus (Tabanus) miniatus* Dutta & Biswas, 1977
193. *Tabanus (Tabanus) monilifer* (Bigot, 1892)
194. *Tabanus (Tabanus) monotaeniatus* (Bigot, 1892)
195. *Tabanus (Tabanus) namdaphaicus* Dutta & Chakraborti, 1985
196. *Tabanus (Tabanus) nephodes* (Bigot, 1892)
197. *Tabanus (Tabanus) nicobarensis* Schiner, 1866

198. *Tabanus (Tabanus) noctuinus* Schuurmans Stekhoven, 1926
199. *Tabanus (Tabanus) nonoptatus* Ricardo, 1911
200. *Tabanus (Tabanus) obconicus* Walker, 1850
201. *Tabanus (Tabanus) orchroceras* Schuurmans Stekhoven, 1932
202. *Tabanus (Tabanus) oknos* Surcouf, 1922
203. *Tabanus (Tabanus) optatus* Walker, 1856
204. *Tabanus (Tabanus) orientalis* Wiedemann, 1824
205. *Tabanus (Tabanus) orientis* Walker, 1848
206. *Tabanus (Tabanus) oxyceratus* (Bigot, 1892)
207. *Tabanus (Tabanus) pallidiventer* Schuurmans Stekhoven, 1926
208. *Tabanus (Tabanus) parafuscomaculatus* Schuurmans Stekhoven, 1932
209. *Tabanus (Tabanus) parahybridus* Schuurmans Stekhoven, 1932
210. *Tabanus (Tabanus) partitus* Walker, 1856
211. *Tabanus (Tabanus) praematurus* Austen, 1922
212. *Tabanus (Tabanus) provincialis* Ricardo, 1913
213. *Tabanus (Tabanus) pullomaculatus* Philip, 1970
214. *Tabanus (Tabanus) rectilineatus* Schuurmans Stekhoven, 1926
215. *Tabanus (Tabanus) rhinargus* Philip, 1962
216. *Tabanus (Tabanus) rubicundus* Macquart, 1846
217. *Tabanus (Tabanus) rubudooides* Szilády, 1926
218. *Tabanus (Tabanus) rubidus* Wiedemann, 1821
219. *Tabanus (Tabanus) rubiginosus* Walker, 1850
220. *Tabanus (Tabanus) rufiventris* Fabricius, 1805
221. *Tabanus (Tabanus) sagittipalpis* Szilády, 1926
222. *Tabanus (Tabanus) scutellus* Philip, 1970
223. *Tabanus (Tabanus) servillei* Macquart, 1838
224. *Tabanus (Tabanus) sexcinctus* Ricardo, 1911
225. *Tabanus (Tabanus) shyamarupi* Datta & Chakraborti, 1985
226. *Tabanus (Tabanus) siamensis* Ricardo, 1911
227. *Tabanus (Tabanus) speciosus* Ricardo, 1911
228. *Tabanus (Tabanus) striatus* Fabricius, 1787
229. *Tabanus (Tabanus) subbasalis* Kapoor, 1988
230. *Tabanus (Tabanus) subcallosus* Ricardo, 1911

231. *Tabanus (Tabanus) subcinerascens* Ricardo, 1911
232. *Tabanus (Tabanus) subcrassus* Kapoor, 1988
233. *Tabanus (Tabanus) subhirtus* Ricardo, 1911
234. *Tabanus (Tabanus) suffis* Jaennicke, 1867
235. *Tabanus (Tabanus) tenebrosus* Walker, 1854
236. *Tabanus (Tabanus) tenuifrons* Datta & Chakraborti, 1985
237. *Tabanus (Tabanus) triceps* Thunberg, 1827
238. *Tabanus (Tabanus) trinominiatusi* Senior-White, 1927
239. *Tabanus (Tabanus) trinominiatus incertus* Szilády, 1926
240. *Tabanus (Tabanus) tripurensis* Datta, 1986
241. *Tabanus (Tabanus) tuberculatus* Ricardo, 1911
242. *Tabanus (Tabanus) wallacei* Szilády, 1926
243. *Tabanus (Tabanus) xanthoimus* Philip, 1960

Unplaced species

15. Genus *Diachlorus*

244. *Diachlorus fulvescens* Brunetti, 1912

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