(IV.) ANNULATA.

1. HIRUDINEA.

Placobdella rugosa:—Host (?). Coll. Hall, 1907, Canon City, det. J. Percy Moore.

Eurpordella punctata:—Host (?). Coll. Hall, 1907, Canon City, det. J. Percy Moore.

(V.) ARTHROPODA.

1. CRUSTACEA.

Astheres or Lernaeopoda:—Trout; mouth and gills. Coll. D. C. Beamam, Denver (?). In Dr. Ward's collection.

Dr. Charles Branch Wilson informs me that he knows of no parasitic copepods from Colorado, and has no records of any in MS. notes of G. G. Gurley, Richard Rathburn, M. T. Thompson or Edwin Linton. Dr. Harriet Richardson tells me that she knows of no parasitic isopods from Colorado.

2. INSECTA.

(1.) PLATYPTERA.

Colpocephalum assimile:—Whooping crane (Grus americana, per Kellogg 1900); skin. Coll. and det. Gillette, Lamar. Reported by Osborn (1896).


Docophorus distinctus:—Corylus cornus sinuatus; skin. Reported by Kellogg (1900).

Docophorus sialis:—Sialia sialis; skin. Kellogg (1900) lists this from "Merriam, Colo." and refers it to Osborn (1896). Osborn, however, in his description of this new species refers it to "Merriam Coll.", presumably an abbreviation of "Merriam Collection." There is no record from Colorado, as far as the writer is aware.

Docophorus sp.:—Asio flammens; skin. Coll. and det. Cockerell, 1910, Boulder County.

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DOCOPHORUS sp.—*Cynomys ludovicianus*; skin. Coll. and det. Hall, 1911, Natural Corral, El Paso County. Insects of this genus are obviously errant when found on hosts other than birds. The probable true host of this insect is *Speziyo curculicaria hypogaecia*, but the parasite is not *D. spodyti*

DOCOPHORUS spodyti.—*Speziyo curculicaria hypogaecia*; skin. Coll. C. F. Baker, Fort Collins; described as a new species by Osborn (1896).

LIPURUS docophoroides.—*Gallus gallus*; skin. Coll. Chas. Esler, 1907, Boulder; det. Kellogg. (Data from Cockerell.)

MIRIFON BIBERIATUM.—*Gallus gallus*; skin. Coll. and det. Kaupp, 1908-’11, Fort Collins (common).

MIRIFON FALLID.—*Gallus gallus*; skin. Coll. and det. Kaupp, 1908-’11, Fort Collins (common); coll. Cockerell, 1888, Westcliffe.


TRICHODERECTES LINNATUM.—*Capra hircus angorenisis*; skin. Coll. and det. Hall, 1911, Colorado Springs in goat from Amo. 1 case.


(2.) HEMIPTERA.

ACANTHIA LECTULARIA.—*Homog casaianus*; skin. Coll. and det. Hall, 1911, Colorado Springs. This widely distributed parasite, the bedbug, is getting increasing attention as the carrier of diseases.


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HAEOMATOPHUS MONTANUS.—Western gray squirrels; skin. Coll. Baker, Fort Collins; described as a new species by Osborn (1896).

HAEOMATOPHUS EPITAS.—*Ovis aries*; skin. Coll. and det. Kaupp, 1908-’11, Fort Collins. 1 case.

HAEOMATOPHUS sp.—*Entemisia amoenus operarius*; skin. Coll. and det. Hall, 1911, Clyde.


PRICULUS CAPITIS.—*Homo sapiens*; in hair of head. The writer recalls seeing this in Denver in 1887 and knew of several cases in Colorado Springs about 1898. In the last case, the lice were spread among pupils at school, apparently by the general use of a comb kept in the girls’ cloak room. The individual comb is, of course, practically as desirable as the individual drinking cup, and for much the same reasons.

(3.) DIPTERA.


AEDES SULVERTRIS.—Host (?). Coll. E. P. Taylor, 1906, Grand Junction; Cockerell, Boulder; det. Dyar and Knab. See *Culex stimulans*.

ANOPHELES sp.—[*Homo sapiens*] Coll. C. G. Weldon, 1911, Delta County, according to letter from Professor Gillette. This record is very important. See *Plasmodium* sp.

CERATOPOGON COCKERELLI:—Host (?). Coll. Cockerell, Custer County. Described as a new species by Coquillet (1901).
CERATOPOGON SPECULARIS:—Host (?). Described as a new species, partly on Colorado material, by Coquillet (1901).
CHRYSPS CARBONARIUS:—Host (?). Recorded by Hine (1904).
CHRYSPS COLORADENSIS:—Host (?). Recorded by Hine (1904).
CHRYSPS COQUILETTII:—Host (?). Recorded by Hine (1904) p. 246. Apparently an error as p. 221 specifies California exclusively and apparently correctly.
CHRYSPS DISCALIS:—Host (?). Recorded by Hine (1904).
CHRYSPS FULVASTER:—Host (?). Coll. Titus, 1904, Delta, det. Coquillet. A record by Hine (1904) may be based on Titus's record in the Bureau of Entomology.
CHRYSPS LUPUS:—Host (?). Recorded by Hine (1904).
CULEX CONSORRINUS:—Host (?). Det. Coquillet. Reported by Howard (1900). The correct name of this species is Culiseta inornatus q. v.
CULEX STIMULANS:—Host (?). Det. Coquillet. Reported by Howard (1900). The correct name of this species is Aedes sylvestris, q. v.
CULEX TARSALIS:—Host (?). Coll. S. A. Rohwer, 1907, Florissant; E. P. Taylor, 1906, Grand Junction; E. S. Tucker, Denver; det. Dyar and Knab.