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U. S. DEPARTMENT OF AGRICULTURE.

BUREAU OF ANIMAL INDUSTRY.

CHECK LIST OF THE ANIMAL PARASITES OF GEESE.

(*Anser anser domesticus*.)

This check list is taken from the card catalogue of the Zoological Laboratory, Bureau of Animal Industry, and contains all of the animal parasites of the domesticated goose recorded up to the present time, so far as it has been possible to trace them in veterinary and zoological literature. The generic names are printed in brevier antique lower case, ex., *Coccidium*; the generally accepted specific names are given in brevier small caps under the generic name, ex., TENELLUM; synonyms, which are taken upon the authority of various authors, are printed in brevier italics and cross referenced to the name adopted for the parasite by the most recent authorities, ex., "*Coccidium Rivolta* see COCCIDIUM TENELLUM."

In the present list I do not commit myself to the validity of any species or genus or to the validity of any specific or generic name. The names given are those adopted by the most recent authorities, but it will be years before all of these forms can be properly studied. In a few cases I have adopted the "generally accepted name," even if it is apparently not the first available name, as I consider it better to make changes in nomenclature only when the literature can be given. An historical review of the species is, however, out of the question in a check list of this kind.

ALBERT HASSALL,

Zoological Laboratory, Bureau of Animal Industry.

Approved:

J. STERLING MORTON,

Secretary of Agriculture.

WASHINGTON, D. C., June 15, 1896.

PROTOZOA (UNICELLULAR ANIMALS).

Coccidium R. Leuckart, 1879

Rivolta see COCCIDIUM TENELLUM.

TENELLUM Railliet & Lucet, 1891.....Intestine

1886, *Coccidium Rivolta* Harz [*nec* Grassi, 1881].

TRUNCATUM Railliet & Lucet, 1891.....Kidney

TREMATODA (FLUKES).

Cephalogonimus J. Poirier, 1885 (also as subg. of *Distomum*)

OVATUS (Rudolphi, 1802) Stossich, 1892.....Bursa of Fabricius

1802, *Fasciola ovata* Rudolphi.

1809, *Distoma oratum* (Rudolphi, 1802) Rudolphi.

1846, *D. bursicola* Creplin.

Distomum Retzius, 1786 (also **Distoma**) [*nec* *Distomus* Gaertner, 1774]

- anatis* see ECHINOSTOMUM ECHINATUM.
anatis fusca see " "
armatum see " "
bursicola see CEPHALOGONIMUS OVATUS.
conoideum see ECHINOSTOMUM ECHINATUM.
dilatatum see " "
echinatum see " "
echiniferum see " "
excavatum see " "
fuligula ferina see " "
gruis see " "
militare see " "
ovatum see CEPHALOGONIMUS OVATUS.
oxycephalum see ECHINOSTOMUM ECHINATUM.
radiatum see " "

Echinostomum Rudolphi, 1809 (also **Echinostoma**) (also as subg. of **Distomum**)

- dilatatum* see ECHINOSTOMUM ECHINATUM.
 ECHINATUM (Zeder, 1803) Rudolphi, 1809..... Intestine
 1782, *Cucullanus conoideus* Bloch.
 1782, *Planaria teres poro simplici* Goeze.
 1788, *Festucaria anatis* Schrank.
 1790, *Fasciola anatis* (Schrank, 1788) Gmelin.
 1790, *F. gruis* Gmelin.
 1790, *Festucaria boschadis* Schrank.
 —?—*Distoma anatis fusca* Viborg.
 1800, *D. anatis* (Schrank, 1788) Zeder.
 1803, *D. gruis* (Gmelin, 1790) Zeder.
 1803, *D. echinatum* Zeder.
 1809, *D. excavatum* Rudolphi.
 1809, *D. militare* Rudolphi.
 1819, *D. oxycephalum* Rudolphi.
 1844, *D. fuligula ferina* Bellingham.
 1845, *D. radiatum* Dujardin.
 1846, "*D. dilatatum* Miram n. sp." [nomen nudum of Creplin].
 1855, *D. echiniferum* La Valette.
 1858, *D. armatum* Molin [*nec* (Rudolphi, 1793) Zeder, 1803].
 1860, "*Echinostoma dilatatum* (Miram," 1846) Cobbold.
 1885, *Distoma conoideum* (Bloch, 1782) Railliet.
 1896, *Echinostomum oxycephalum* (Rudolphi, 1819) Railliet.
oxycephalum see ECHINOSTOMUM ECHINATUM.

Fasciola Linnaeus, 1758

- anatis* see ECHINOSTOMUM ECHINATUM.
gruis see " "
orata see CEPHALOGONIMUS OVATUS.
verrucosa see NOTOCOTYLE VERRUCOSUM.

Festucaria Schrank, 1788

- anatis* see ECHINOSTOMUM ECHINATUM.
boschadis see " "

Monostomum Zeder, 1800 (also **Monostoma**)

- attenuatum* see NOTOCOTYLE VERRUCOSUM.
lineare see " "
microstomum see MONOSTOMUM MUTABILE.
 MUTABILE Zeder, 1800..... Infra-orbit. sinus
 1829, *Monostomum microstomum* Creplin.
verrucosum see NOTOCOTYLE VERRUCOSUM.

Notocotyle Diesing, 1850*triseriale* see NOTOCOTYLE VERRUCOSUM.

- VERRUCOSUM (Frölich, 1789) Monticelli, 1892 Intestine
 1789, *Fasciola verrucosa* Frölich.
 1800, *Monostomum verrucosum* (Frölich, 1789) Zeder.
 1809, *M. attenuatum* Rudolphi [*nec* Molin, 1859].
 1819, *M. lineare* Rudolphi.
 1839, *Notocotylus triserialis* Diesing.
 1850, *Notocotyle triseriale* (Diesing, 1839) Diesing.

Notocotylus Diesing, 1839*triserialis* see NOTOCOTYLE VERRUCOSUM.**Planaria** Goeze, 1782 [*nec* Müller, 1776]*teres poro simplici* see ECHINOSTOMUM ECHINATUM.**CESTODA (TAPEWORMS).¹****Alyselminthus** Zeder, 1800*crenatus* see DREPANIDOTÆNIA FASCIATA.*setigerus* see " SETIGERA.*sinuosus* see " SINUOSA.**Drepanidotænia** Railliet, 1892

- FASCIATA (Krabbe, 1869) Railliet, 1893 Intestine
 ♀ 1800, *Alyselminthus crenatus* (Goeze, 1782) Zeder.
 ♀ 1803, *Halysis crenatus* (Goeze, 1782) Zeder.
 ♀ 1810, *Tænia fasciata* Rudolphi.
 1869, *T. fasciata* Krabbe.

GRACILIS (Krabbe, 1869) Railliet, 1893 Intestine

- ♀ 1782, *Tænia collo longissimo* Bloch.
 ? 1803, *Halysis gracilis* Zeder.
 ? 1810, *Tænia gracilis* (Zeder, 1803) Rudolphi.
 1869, *T. gracilis* Krabbe.

LANCEOLATA (Bloch, 1782) Railliet, 1892 Intestine

- [1727, *Tænia anserum* Frisch.]
 1779, *T. anseris* Bloch.
 1781, *T. acutissima* Pallas pro parte.
 1782, *T. lanceolata* Bloch.
 1786, *T. lanceola* Batsch.
 1803, *Halysis lanceolata* (Bloch, 1782) Zeder.
 1858, *Hymenolepis (Dilepis) lanceolata* (Bloch, 1782) Weinland.

SETIGERA (Frölich, 1789) Railliet, 1893 Intestine

- 1789, *Tænia setigera* Frölich.
 1800, *Alyselminthus setigerus* (Frölich, 1789) Zeder.
 1803, *Halysis setigera* (Frölich, 1789) Zeder.

SINUOSA (Zeder, 1800) Railliet, 1893 Intestine

- 1782, *Tænia collari nigro* Bloch.
 1786, *T. collaris* Batsch.
 1790, *T. torquata* Gmelin.
 1800, *Alyselminthus sinuosus* Zeder.
 1803, *Halysis sinuosa* (Zeder, 1800) Zeder.
 1803, *H. torquata* (Gmelin, 1790) Zeder.
 1850, "*Tænia infundibuliformis (Anserum)* Goeze" of Diesing.
 1858, *Hymenolepis (Lepidotrias) sinuosa* (Zeder, 1800) Weinland.

TENUIROSTRIS (Rudolphi, 1819) Railliet, 1893 Intestine

- 1819, *Tænia tenuirostris* Rudolphi.

¹For a discussion of these parasites see Stiles' Report upon the Present Knowledge of the Tapeworms of Poultry. (Bull. 12, Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C.)

Halysis Zeder, 1803

<i>gracilis</i> see DREPANIDOTÆNIA	GRACILIS.
<i>lanceolata</i> see “	LANCEOLATA.
<i>sinuosa</i> see “	SINUOSA.
<i>torquata</i> see “	“

Hymenolepis Weinland, 1858

<i>sinuosa</i> see DREPANIDOTÆNIA	SINUOSA.
<i>lanceolata</i> see “	LANCEOLATA.

Tænia (s. l.) Linnaeus, 1758

<i>acutissima</i> see DREPANIDOTÆNIA	LANCEOLATA.
<i>anseris</i> see “	“
<i>anserum</i> see “	“
<i>collari nigro</i> see “	SINUOSA.
<i>collaris</i> see “	“
<i>collo longissimo</i> see “	GRACILIS.
<i>fasciata</i> see “	FASCIATA.
<i>gracilis</i> see “	GRACILIS.
<i>infundibuliformis</i> (<i>anserum</i>) see DREPANIDOTÆNIA	SINUOSA.
<i>lanceola</i> see DREPANIDOTÆNIA	LANCEOLATA.
<i>lanceolata</i> see “	“
<i>setigera</i> see “	SETIGERA.
<i>tenuirostris</i> see “	TENUIROSTRIS.
<i>torquata</i> see “	SINUOSA.

NEMATODA (ROUND WORMS).**Ascaris** Linnaeus, 1758

dispar see HETERAKIS DISPAR.

Cucullanus Müller

conoideus see ECHINOSTOMUM ECHINATUM.

Dispharagus Dujardin, 1845

UNCINATUS (Rudolphi, 1819) Dujardin, 1845.....Œsophagus (encysted)
1819, *Spiroptera uncinata* Rudolphi.
1866, *Filaria uncinata* (Rudolphi, 1819) Schneider.

Filaria O. F. Müller, 1787

uncinata see DISPHARAGUS UNCINATUS.

Fusaria Zeder, 1800

dispar see HETERAKIS DISPAR.

Heterakis Dujardin, 1845

DISPAR (Schrank, 1790) Dujardin, 1845.....Intestine
1790, *Ascaris dispar* Schrank.
1800, *Fusaria dispar* (Schrank, 1790) Zeder.

Strongylus O. F. Müller, 1780

ANSERIS Zeder, 1800.....Ventriculus (encysted)
1791, *Ascaris mucronata* Frölich.
1803, *Strongylus nodulosus* Rudolphi.
1809, *S. nodularis* Rudolphi.
1850, *S. orispinus* Molin.
1893, *S. mucronatus* (Frölich, 1791) Railliet.
mucronatus see STRONGYLUS ANSERIS.
nodularis see “ “
nodulosus see “ “
orispinus see “ “
serratus see “ TENUIS.
TENUIS Eberth, 1861.....Intestine
1876, *Strongylus serratus* Linstow.

- Syngamus** Siebold, 1836
 BRONCHIALIS Müllig, 1884.....Trachea
- Trichocephalus** Goeze, 1782.
anatis see TRICHOSOMA ANATIS.
- Trichosoma** Rudolphi, 1819 (also **Trichosomum**)
 ANATIS (Schränk, 1790) Railliet, 1893Intestine
 1790, *Trichocephalus anatis* Schränk.
 1819, *Trichosoma brevicolle* Rudolphi.
brevicolle see TRICHOSOMA ANATIS.

ACANTHOCEPHALA (THORN-HEADED WORMS).

- Echinorhynchus** O. F. Müller
 POLYMORPHUS Bremser, 1819.....Intestine

INSECTA (INSECTS).

- Docophorus** (Nitzsch, 1818)
adustus see DOCOPHORUS ICTERODES.
 ICTERODES Nitzsch, 1818External
 1763, *Pediculus dentatus* Scopoli.
 1818, *Philopterus (Docophorus) icterodes* Nitzsch.
 —?— *Docophorus adustus* Burmeister.
- Liotheum** Nitzsch, 1806
conspurcatum see TRINOTON ANSERIS.
litoratum see “ LITURATUM.
- Lipeurus** (Nitzsch, 1818)
 ANSERIS (Gurlt, 1842).....External
 1842, *Ornithobius anseris* Gurlt.
 CRASSICORNIS (Olfers, 1817) Railliet, 1895.....External
 1817, *Nirmus crassicornis* Olfers.
 1818, *Philopterus (Lipeurus) jejunus* Nitzsch.
 —?— *Lipeurus jejunus* (Nitzsch, 1818).
jejunus see LIPEURUS CRASSICORNIS.
- Nirmus** Hermann
crassicornis see LIPEURUS CRASSICORNIS.
- Ornithobius** Denny, 1842 [*nec Ornithobia* Meigen, 1830]
anseris see LIPEURUS ANSERIS.
- Pediculus** Linnæus, 1758
anseris see TRINOTON ANSERIS.
dentatus see DOCOPHORUS ICTERODES.
- Philopterus** Nitzsch, 1818
jejunus see LIPEURUS CRASSICORNIS.
- Trinoton** (Nitzsch, 1818)
 ANSERIS (Sulzer, 1776) Railliet, 1895External
 1776, *Pediculus anseris* Sulzer.
 1818, *Liotheum (Trinoton) conspurcatum* Nitzsch.
 —?— *Trinoton conspurcatum* (Nitzsch, 1818).
conspurcatum see TRINOTON ANSERIS.
 CONTINUUM Piaget, 1880External
squalidum see TRINOTON LITURATUM.
 LITURATUM (Nitzsch, 1818).....External
 1818, *Liotheum (Trinoton) litoratum* Nitzsch.
 1842, *Trinoton squalidum* Denny.