

RECORDS OF SIPHUNCULATA AND MALLOPHAGA FROM
CANADIAN HOSTS.

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The following records are based on material collected, for the most part, by Mr. W. E. Whitehead of the Department of Entomology, Macdonald College, McGill University. For the opportunity of examining this material I am indebted to Sir Guy Marshall, F.R.S., Director, The Imperial Institute of Entomology, London.

Previous records of lice taken from hosts in the Dominion of Canada are very few although there are numerous papers on these parasites found on birds and mammals of the United States which also occur in Canada. The following papers may be listed as containing records of lice from Canadian hosts:

Baker, A. W., (1915), *Canad. Ent.*, XLVII, pp. 237-241.

Baker, A. W., (1919), *Rept. Can. Arct. Exped.*, 1913-18, iii, pp. 1-11D.

Cameron, A. E., (1932), *Dom. Dept. of Agr. Bull.* 152, N.S., pp. 14-15.

Essig, E. O., (1926), *Insects of Western N. America*, pp. 126-138 and 192-198.

Gibson, A. *Sci. Agr.*, XI, pp. 208-220.

Kellogg, V. L. & Ferris, G. F., (1915), *Leland Stan. Junr., Publ.*, pp. 1-74.

Rayner, J. A., (1932), *Sci. Agr.* XII, pp. 307-308.

Spencer, G. J., (1928), *Canad. Ent.*, LX, pp. 257-260.

Wickwire, A. B., *Can. Vet. Rec.*, (1922).

MALLOPHAGA.

Amblycera

Gyropidae.

Gliricola porcelli (Linn.) *Syst. Nat.*, 1758, p. 611.

On guinea pig. Macdonald College, P. Q.

Menoponidae.

Menopon colaptis Durrant. *Ohio Nat.*, viii, 1908, p. 355, f. 1h.

On *Colaptes auratus*—(Flicker). Macdonald College, P. Q.

Menopon gallinae (Linn.) *Syst. Nat.*, 1758, p. 613.

On *Numida meleagris*—(Guinea Fowl). Truro, N.S., and Macdonald College, P. Q.

Myrsidea americana (Kellogg). *New Mallophaga*, ii, 1896, p. 539.

On *Corvus americanus*—(Crow). Macdonald College, P. Q.

Myrsidea dissimilis (Kellogg). *New Mallophaga*, ii, 1896, p. 536, Pl. 73, f. 5.

On *Progne subis*—(Purple Martin). Macdonald College, P. Q.

Menacanthus spiniferus (Piaget). *Les Pediculines*, Suppl., 1885, p. 99, Pl. 10, f. 9.

On *Sturnus vulgaris*—(Starling). Macdonald College, P. Q.

Machaerilaemus laticorpus (Carriker). *Univ. Nebr. Stud.*, iii, 1903, p. 190, Pl. 7, f. 5.

On *Euphagus carolinus*—(Rusty Grackle). Macdonald College, P. Q.

The specimens of this species were kindly compared with the type for me by Mr. M. A. Carriker Jr., and the host is a new host record for the species.

Dennyus (Dennyus) dubius (Kellogg). New Mallophaga, ii, 1896, p. ~~240~~⁵, Pl. 73, f. 6.

On *Chaetura pelagica*—(Chimney Swift). Macdonald College, P. Q.

Trinoton querquedulae (Linn.). Syst. Nat., 1758, p. 612.

On *Anas platyrhynchos*—(Mallard). Wainwright, Alta.

Bovicola bovis (Linn.) Syst. Nat., 1758, p. 611.

On cattle. Truro, N. S., and Macdonald College, P. Q.

Trichodectes ? canis (Degeer). Mem. Hist. Ins., vii, 1778, p. 81, Pl. 4, f. 16.

On *Canis lycaon*—(Timber Wolf). Hearst, Ont.

Eutrichophilus setosus (Giebel). Zeit. f. ges. Nat., xviii, 1861, p. 86.

On *Erethizon dorsatum*—(Canadian Porcupine). Annapolis Royal, N. S.

PHILOPTERIDAE.

Goniodes dispar (Nitzsch), in Burmeister, Handbuch, ii, 1838, p. 432.

On *Perdix perdix*—(Hungarian Partridge). Quebec, P. Q.

Goniodes tetraonis (Linn.). Syst. Nat., 1758, p. 614.

On *Lagopus l. lagopus*—(Willow Grouse). Wolstenholme, P. Q.

Anatoecus denatus (Scopoli). Ent. Carn., 1763, p. 383.

On *Marila marila*—(Greater Scaup Duck). Quebec, P. Q.

Phlopterus californiensis (Kellogg). New Mallophaga, ii, 1896, p. 483, Pl. 66, f. 6.

On *Sphyrapicus varius*—(Sapsucker). Macdonald College, P. Q.

Phlopterus gonothorax (Giebel). Zeit. f. ges. Nat. xxxvii, 1871, p. 450.

On *Larus hyperboreus*—(Glaucous Gull). Moose River.

Degeeriella fusca (Nitzsch), in Denny, Anopl. Brit., 1842, p. 118, Pl. 9, f. 8.

On *Circus hudsonicus*—(Marsh Hawk). Baie d'Urfe, P. Q.

Degeeriella gracilis (Nitzsch), in Burmeister, Handbuch, ii, 1838, p. 429.

On *Progne subis*—(Purple Martin). Macdonald College, P. Q.

Degeeriella illustris (Kellogg). New Mallophaga, ii, 1896, p. 494, Pl. 67, f. 4.

On *Aeglais phoeniceus*—(Red-winged Blackbird). Baie d'Urfe, P. Q.

Degeeriella marginatula Harrison. Parasit., ix, 1916, p. 117.

On *Colaptes auratus*—(Flicker). Macdonald College, P. Q.

Degeeriella nebulosa (Burmeister). Handbuch, ii, 1838, p. 429.

On *Sturnus vulgaris*—(Starling). Macdonald College, P. Q.

Degeeriella picturata (Osborn). Bull. Div. Ent., 1896, p. 226.

On *Sturnella magna*—(Meadow Lark). Macdonald College, P. Q.

Degeeriella vulgata (Kellogg). New Mallophaga, ii, 1896, p. 496, Pl. 67, f. 5.

On *Planesticus migratorius*—(Robin). Macdonald College, P. Q.

Lagopoecus cameratus (Nitzsch), in Lyonet, Mem. du Mus., xviii, 1829, p. 267, Pl. 4, f. 6.

On *Lagopus l. lagopus*—(Willow Grouse). Wolstenholme, P. Q.

Columbicola columbae (Linn.). Syst. Nat., 1758, p. 614.

On *Columba livia*—(Rock Dove). Macdonald College, P. Q.

Esthiopterum crassicornne (Scopoli). Ent. Carn., 1763, p. 383.

On *Mareca americana*—(Widgeon). Wainwright, Alta.

Esthiopterum botauri (Osborn). Bull. Div. Ent., 1896, p. 234.

On *Botaurus lentiginosum*—(Bittern). Baie d'Urfe, P. Q.

SIPHUNCULATA.

Haematopinidae.

Haematopinus eurysternus (Nitzsch). Germar's Mag., iii, p. 305.

On cattle. Truro, N. S., and Macdonald College, P. Q.

Hoplopleura sciuricola Ferris. Contrib. towards a Mon. Sucking Lice, ii, 1921, pp. 110-112, figs. 69 and 70.

On *Sciurus hudsonicus*—(Red Squirrel). Entrance, Alta.

SUMMARY OF THE RECORDS.

Birds.

Host.	Parasite.
<i>Anas platyrhynchos</i>	<i>Trinoton querquedulae</i> (Linn.)
<i>Botaurus lentiginosum</i>	<i>Esthiopterum botauri</i> (Osborn).
<i>Chaetura pelagica</i>	<i>Dennyus (Dennyus) dubius</i> (Kellogg)
<i>Circus hudsonicus</i>	<i>Degeeriella fusca</i> (Nitzsch)
<i>Colaptes auratus</i>	<i>Menopon colaptis</i> Durrant
	<i>Degeeriella marginatula</i> Harrison
<i>Columba livia</i>	<i>Columbicola columbae</i> (Linn.)
<i>Corvus americanus</i>	<i>Myrsidea americana</i> (Kellogg)
<i>Euphagus carolinus</i>	<i>Machaerilaemus laticarpus</i> (Carriker)
<i>Lagopus l. lagopus</i>	<i>Goniodes tetraonis</i> (Linn.)
	<i>Lagopoecus cameratus</i> (Nitzsch)
<i>Larus hypoboreus</i>	<i>Phlopterus gonothorax</i> (Giebel)
<i>Mareca americana</i>	<i>Esthiopterum crassicornne</i> (Scopoli)
<i>Marila marila</i>	<i>Anatoecus dentatus</i> (Scopoli)
<i>Nunida meleagris</i>	<i>Menopon gallinae</i> (Linn.)
<i>Perdix perdix</i>	<i>Goniodes dispar</i> (Nitzsch)
<i>Planesticus migratorius</i>	<i>Degeeriella vulgata</i> (Kellogg)
<i>Progne subis</i>	<i>Myrsidea dissimilis</i> (Kellogg)
	<i>Degeeriella gracilis</i> (Nitzsch)
<i>Sphyrapicus varius</i>	<i>Phlopterus californiensis</i> (Kellogg)
<i>Sturnella magna</i>	<i>Degeeriella picturata</i> (Osborn)
<i>Sturnus vulgaris</i>	<i>Menacanthus spiniferus</i> (Piaget)
	<i>Degeeriella nebulosa</i> (Burmeister)

Mammals.

Cat	<i>Felicola subrostratus</i> (Nitzsch)
Guinea pig	<i>Gliricola porcelli</i> (Linn.)
Cattle	<i>Bovicola bovis</i> (Linn.)
	<i>Haematopinus eurysternus</i> (Nitzsch)
<i>Canis lycaon</i>	<i>Trichodectes ? canis</i> (Degeer)
<i>Erethizon dorsatum</i>	<i>Eutrichophilus setosus</i> (Giebel)
<i>Sciurus hudsonicus</i>	<i>Hoplopleura sciuricola</i> Ferris