

RECORDS OF MALLOPHAGA FROM OKLAHOMA HOSTS

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The Mallophaga listed were collected from birds and mammals in various parts of Oklahoma as indicated. Included in the records of the material collected by the author during the past three years are numerous records from material furnished by various students in the Entomology Department of Oklahoma A. and M. College. Previous records of lice taken from hosts in this state are very few, although there are numerous papers on species of this group found on birds and mammals of the states north and east of Oklahoma.

I wish to acknowledge the host identifications made by Dr. F. M. Baumgartner, of this school, and the aid given by Professor E. W. Stafford, Mississippi State College, with the identification of some of the Mallophaga.

The classification used is that of Harrison (1916); however some of the larger genera are rapidly being divided to form new genera in which the species are more closely allied and on the basis of the host-relationship. Therefore, the author feels quite sure some of the generic names used will soon be changed. All of the species listed are in my personal collection, except three species collected and sent by Mr. Harry Whitaker to the United States National Museum.

Family Gyropidae

Gliricola porcelli (Linn.) Guinea Pig; Stillwater.

Family Menoponidae

Menopon gallinae (Linn.) Domestic Chickens; Stillwater, Cromwell, Norman.

Menopon mesoleucum Nitz. Crow, *Corvus brachyrhynchos*; Stillwater.

Eomenacanthus stramineum (Nitz.) Domestic Chickens; Stillwater, Cromwell, Norman, Checotah.

Colpocephalum laticeps Kellogg Little Blue Heron, *Florida caerulea*; Cromwell; Great Blue Heron, *Ardea herodias*; Broken Bow, Alva; American egret, *Casmerodius albus*; Stillwater.

Menacanthus chrysophaeus (Kellogg) Meadow Lark, *Sturnella magna*; Cromwell.

Menacanthus persignatus (Kellogg and Chapman) Meadow Lark, *Sturnella magna*; Cromwell.

Actornithophilus aegialitidis (Durrant) Killdeer, *Oxyechus vociferus*; Cromwell, Pawnee.

Ferrisia kelloggi (Osborn) Turkey Vulture, *Canthartes aura septentrionalis*; Checotah.

Trinoton anserium (Fabr.) Canada Goose, *Branta canadensis*, Stillwater.

Trinoton lituratum Nitz. Blue Winged Teal, *Querquedula discors*; Stillwater, Alva.

Trinoton querquedulae (Nitz.) Blue Winged Teal, *Querquedula discors*; Pawnee, Stillwater; Shoveller, *Spatula clypeata*; Alva, Stillwater; Mallard, *Anas platyrhynchos*; Stillwater; Green Winged Teal, *Nettion carolinense*; Pawnee.

Myrsidea americana (Kellogg) Crow, *Corvus brachyrhynchos*; Stillwater, Coyle, Cromwell.

Myrsidea dissimilis (Kellogg) Barn Swallow, *Hirundo erythrogaster*; Pawnee.

Myrsidea incerta (Kellogg) Orchard Oriole, *Icterus spurius*; Perkins.

Pseudomenopon tridens (Nitz.) Coot, *Fulica americana*; Alva.

Kurodaia subpachygaster (Piaget) Barn Owl, *Tyto alba pratincola*; Stillwater.

Heterodoxus longitarsus (Piaget) Domestic Dogs; Stillwater, Norman, Cromwell, Yale, Checotah.

Family Trichodeetidae

- Bovicola bovis* (Linn.) Domestic Cattle; Stillwater, Cromwell.
Bovicola caprae (Gurlt.) Domestic Goats; Stillwater, Broken Bow.
Bovicola major (Piaget) Domestic Goats; Stillwater.
Bovicola ovis (Linn.) Domestic Sheep; Stillwater.
Bovicola equi (Linn.) Domestic Horses; Stillwater, Poteau.
Cervicola forficula (Piaget) Deer, *Odocoileus virginianus*; Cache.
Cervicola odocoilei (McGregor) Deer, *Odocoileus virginianus*; Cache.
Cervicola lipeuroides (Megnin) Deer, *Odocoileus virginianus*; Bartlesville.
Felicola subrostratus (Nitz.) Domestic Cat; Stillwater, Cromwell.
Geomydoecus scleritus (McGregor) Pocket Gopher, *Geomys breviceps*; Tecumseh, Stillwater.
Trichodectes octomaculatus (Paine) Raccoon, *Procyon lotor*; Wyandotte.
Trichodectes canis Degeer Domestic Dog; Stillwater.
Neotrichodectes mephitidis (Osborn) Skunk, *Mephitis mesomelas*; Stillwater, Cromwell; Civet Cat, *Spilogale interrupta*; Stillwater.

Family Philopteridae

- Goniodes ortygis* Denny Quail, *Colinus virginianus*; Checotah.
Goniodes meleagris (Linn.) Domestic Turkey; Stillwater, Checotah.
Goniocotes bidentatus (Scopoli) Domestic Pigeon; Stillwater, Cromwell.
Goniocotes gigas Taschenburg Domestic Chickens; Okmulgee.
Goniocotes hologaster Nitz. Domestic Chickens; Stillwater.
Lipeurus pallipavonis (Geoff.) Domestic Turkey; Stillwater, Checotah.
Gallipeurus heterographus (Nitz.) Domestic Chickens; Stillwater.
Cuculaecus coccygus (Osborn) Yellow Billed Cuckoo, *Coccyzus americanus*; Perkins.
Anaticola crassicornis (Scopoli) Shoveller, *Spatula clypeata*; Alva, Stillwater; Blue Wing Teal, *Querquedula discors*; Stillwater: Green Wing Teal, *Nettion carolinense*; Pawnee: Mallard, *Anas platyrhynchos*; Stillwater.
Rallicola advena (Kellogg) Coot, *Fulica americana*; Alva.
Picicola straminea (Denny) Flicker, *Colaptes auritus*; Cromwell.
Eustrigiphilus ceblebrachys (Nitz.) Snowy Owl, *Nyctea nyctea*; Ht.go.
Philopterus agelaii (Osborn) Red Wing Blackbird, *Agelaius phoeniceus*; Cromwell.
Philopterus californiensis (Kellogg) Red Headed Woodpecker, *Melanerpes erythrocephalus*; Stillwater, Alva.
Philopterus communis Nitz. Kingbird, *Tyrannus verticalis*; Stillwater.
Philopterus corvi (Linn.) Crow, *Corvus brachyrhynchos*; Stillwater, Coyle, Checotah.
Philopterus cursor Nitz. Barn Owl, *Tyto alba pratincola*; Stillwater.
Philopterus cristata Malcomson Blue Jay, *Cyanocitta cristata*; Cromwell.
Philopterus subflavescens (Geoff.) Cardinal, *Richmondia cardinalis*; Cromwell, Stillwater: Meadow Lark, *Sturnella magna*; Cromwell: Mocking Bird, *Mimus polyglottos*; Cromwell: Loggerhead Shrike, *Lanius ludovicianus*; Alva, Stillwater, Cromwell: Chickadee, *Penthestes atricapillus*; Cromwell: Goldfinch, *Spinus tristis*; Cromwell.
Philopterus jungens Kellogg Flicker, *Colaptes auritus*; Cromwell.
Philopterus syrni (Packard) Burrowing Owl, *Speotyto cunicularis hypogaea*; Pawnee.
Philopterus taurocephalus (Kellogg) Swainson's Hawk, *Buteo swainsoni*; Stillwater: Marsh Hawk, *Circus hudsonius*; Stillwater. ~~Circus rhyneides dilatatus (Redman)~~
Anataecus dentatus (Scopoli) Blue Wing Teal, *Querquedula discors*; Pawnee, Stillwater.

- Degeeriella boeophilus* Kellogg Yellow Legs, *Totanus flavipes*; Stillwater.
Degeeriella ductilis (Kellogg and Chapman) Grass sparrow, Sp. ?; Stillwater.
Degeeriella foeda (Kellogg and Chapman) Kingbird, *Tyrannus verticalis*; Stillwater: Scissor-tail, *Muscivora forficata*; Stillwater.
Degeeriella fusca Nitz. Swainson's Hawk, *Buteo swainsoni*; Stillwater: Marsh Hawk, *Circus hudsonius*; Stillwater: Sparrow Hawk, *Falco sparverius*; Cromwell: Sharp-shinned Hawk, *Accipiter velox*; Stillwater: Red-tailed Hawk, *Buteo borealis*; Stillwater.
Degeeriella interpositus (Kellogg) Mocking Bird, *Mimus polyglottos*; Cromwell
Degeeriella rotundata (Osborn) Crow, *Corvus brachyrhynchos*; Stillwater.
Degeeriella illustris Kellogg Cowbird, *Molathrus ater*; Perkins.
Degeeriella vulgatus Kellogg Lark Sparrow, *Chondestes grammacus*; Stillwater: English Sparrow, *Passer domesticus*; Cromwell.
Columbicola columbae (Linn.) Domestic Pigeon; Stillwater: Mourning Dove, *Zenaidura macroura*; Cromwell, Pawnee.
Lagopoecus perlexus (Kellogg) Lesser Prairie Chicken, *Tympanuchus pallidicinctus*; Arnett.
Philichthyophaga toxocerum (Nitz.) Cormorant, *Phalacrocorax auritus*; Alva.

SUMMARY OF HOST RECORDS

Host	Parasite
Cormorant, <i>Phalacrocorax auritus</i>	<i>Philichthyophaga toxocerum</i> (Nitz.)
Great Blue Heron, <i>Ardea herodias</i>	<i>Colpocephalum laticeps</i> Kellogg
American Egret, <i>Casmerodius albus</i>	<i>Colpocephalum laticeps</i> Kellogg
Little Blue Heron, <i>Florida caerulea</i>	<i>Colpocephalum laticeps</i> Kellogg
Canada Goose, <i>Branta canadensis</i>	<i>Trinoton anserium</i> (Fabr.)
Mallard, <i>Anas platyrhynchos</i>	<i>Trinoton querquedulae</i> Nitz. <i>Anaticola crassicornis</i> (Scopoli)
Green Wing Teal, <i>Nettion carolinense</i>	<i>Trinoton querquedulae</i> Nitz. <i>Anaticola crassicornis</i> (Scopoli)
Blue Wing Teal, <i>Querquedula discors</i>	<i>Trinoton lituratum</i> Nitz. <i>Trinoton querquedulae</i> Nitz. <i>Anaticola crassicornis</i> (Scopoli) <i>Anataecus dentatus</i> (Scopoli)
Shoveller, <i>Spatula clypeata</i>	<i>Trinoton querquedulae</i> Nitz. <i>Anaticola crassicornis</i> (Scopoli)
Turkey vulture, <i>Cathartes a. septentrionalis</i>	<i>Ferrisia kelloggii</i> (Osborn)
Sharp-shinned Hawk, <i>Accipiter velox</i>	<i>Degeeriella fusca</i> Nitz. = <i>D. giedeli</i> Hopkins, 1917
Red-tailed Hawk, <i>Buteo borealis</i>	<i>Degeeriella fusca</i> Nitz.
Swainson's Hawk, <i>Buteo borealis swainsoni</i>	<i>Philoptyerus taurocephalus</i> (Kellogg) <i>Degeeriella fusca</i> Nitz.
Marsh Hawk, <i>Circus hudsonius</i>	<i>Philoptyerus taurocephalus</i> (Kellogg) = <i>Craspedomyrmex delectatus</i> (Kul.) 1929 <i>Degeeriella fusca</i> Nitz.
Prairie Falcon, <i>Falco mexicanus</i>	<i>Degeeriella fusca</i> Nitz.
Sparrow Hawk, <i>Falco sparverius</i>	<i>Degeeriella fusca</i> Nitz.
Lesser Prairie Chicken, <i>Tympanuchus pallidicinctus</i>	<i>Lagopoecus perlexus</i> (Kellogg)
Quail, <i>Colinus virginianus</i>	<i>Goniodes ortygis</i> Denny

Chicken	<i>Menopon gallinae</i> (Linn.)
	<i>Eomenacanthus stramineum</i> (Nitz.)
	<i>Goniocotes gigas</i> Taschenburg
	<i>Goniocotes hologaster</i> Nitz.
	<i>Gallipeurus heterographus</i> (Nitz.)
Turkey	<i>Goniodes meleagridis</i> (Linn.)
	<i>Lipeurus pallipavonis</i> (Geoff.)
Coot, <i>Fulica americana</i>	<i>Pseudomenopon tridens</i> (Nitz.)
	<i>Rallicola advena</i> (Kellogg)
Killdeer, <i>Oxyechus vociferus</i>	<i>Actornithophilus aegialitidis</i> (Durrant)
Yellow Legs, <i>Totanus flavipes</i>	<i>Degeeriella boeophilus</i> Kellogg
Dove, <i>Zenaidura macroura</i>	<i>Columbicola columbae</i> (Linn.)
Pigeon	<i>Goniocotes bidentatus</i> (Scopoli)
	<i>Degeeriella hebes</i> (Kellogg)
	<i>Columbicola columbae</i> (Linn.)
Yellow-billed Cuckoo, <i>Coccyzus americanus</i>	<i>Cuculaecus coccygus</i> (Osborn)
Barn Owl, <i>Tyto alba pratincola</i>	<i>Philoater cursor</i> (Nitz.)
	<i>Kurodaia subpachygaster</i> (Piaget)
	<i>Eustrigiphilus ceblebrachys</i> (Nitz.)
Snowy Owl, <i>Nyctea nyctea</i>	<i>Philoater syrniai</i> (Packard)
Burrowing Owl, <i>Speotyto cunicularis hypogaea</i>	<i>Picicola straminea</i> (Denny)
Flicker, <i>Colaptes auritus</i>	<i>Philoater jungens</i> Kellogg
Red-headed Woodpecker, <i>Melanerpes erythrocephalus</i>	<i>Philoater californiensis</i> (K.)
Kingbird, <i>Tyrannus verticalis</i>	<i>Philoater communis</i> Nitz.
	<i>Degeeriella foeda</i> (Kellogg & Chapman)
Scissor-tail, <i>Muscivora forficata</i>	<i>Degeeriella foeda</i> (Kellogg & Chapman)
Barn Swallow, <i>Hirundo erythrogaster</i>	<i>Myrsidea dissimilis</i> (Kellogg)
Blue Jay, <i>Cyanocitta cristata</i>	<i>Philoater cristata</i> Malcomson
Crow, <i>Corvus brachyrhynchos</i>	<i>Myrsidea americana</i> (Kellogg)
	<i>Philoater corvi</i> (Linn.)
	<i>Degeeriella rotundata</i> (Osborn)
Chickadee, <i>Penthestes atricaphillus</i>	<i>Philoater subflavescens</i> (Geoff.)
Mocking Bird, <i>Mimus polyglottos</i>	<i>Philoater subflavescens</i> (Geoff.)
	<i>Degeeriella interpositus</i> (Kellogg)
Loggerhead Shrike, <i>Lanius ludovicianus</i>	<i>Philoater subflavescens</i> (Geoff.)
English Sparrow, <i>Passer domesticus</i>	<i>Degeeriella vulgatus</i> Kellogg
Meadow Lark, <i>Sturnella magna</i>	<i>Philoater subflavescens</i> (Geoff.)
	<i>Menacanthus persignatus</i> (K. and C.)
	<i>Menacanthus chrysophaeus</i> (Kellogg)
Red-winged Blackbird, <i>Agelaius phoeniceus</i>	<i>Philoater agelaii</i> (Osborn)
Orchard Oriole, <i>Icterus spurius</i>	<i>Myrsidea incerta</i> (Kellogg)
Cowbird, <i>Molathrus ater</i>	<i>Degeeriella illustris</i> Kellogg
Cardinal, <i>Richmondia cardinalis</i>	<i>Philoater subflavescens</i> (Geoff.)
Goldfinch, <i>Spinus tristis</i>	<i>Philoater subflavescens</i> (Geoff.)
Lark Sparrow, <i>Chondestes grammacus</i>	<i>Degeeriella vulgatus</i> Kellogg
Grass Sparrow, Sp ?	<i>Degeeriella ductilis</i> (K. and C.)
Raccoon, <i>Procyon lotor</i>	<i>Trichodectes octomaculatus</i> (Paine)
Civet Cat, <i>Spilogale interrupta</i>	<i>Neotrichodectes mephitidis</i> (Osborn)
Skunk, <i>Mephitis mesomelas</i>	<i>Neotrichodectes mephitidis</i> (Osborn)
Dog	<i>Heterodoxus longitarsus</i> (Piaget)
	<i>Trichodectes canis</i> Degeer

Cat	<i>Felicola subrostratus</i> (Nitz.)
Pocket Gopher, <i>Geomys breviceps</i>	<i>Geomydoecus scleritus</i> (McGregor)
Guinea Pig	<i>Gliricola porcelli</i> (Linn.)
Sheep	<i>Bovicola ovis</i> (Linn.)
Goat	<i>Bovicola caprae</i> (Gurlt.)
	<i>Bovicola major</i> (Piaget)
Deer, <i>Odocoileus virginianus</i>	<i>Cervicola forficula</i> (Piaget)
	<i>Cervicola odocoilei</i> (McGregor)
	<i>Cervicola lipeuroides</i> (Megnin)
Cattle	<i>Bovicola bovis</i> (Linn.)
Horses	<i>Bovicola equi</i> (Linn.)