

A LIST OF EXTERNAL PARASITES FROM BIRDS OF THE
EASTERN PART OF THE UNITED STATES

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DURING the past eight years a special study has been made of the distribution of the various external parasites found on the birds of the United States. Most of the material has been collected by the members of our staff, although many records have been sent to us by bird-banders, naturalists, and other persons interested in the subject. A number of very interesting records have been found, and many new host and distribution records have been accumulated. Most of the records obtained have been from birds in the States east of the Mississippi River. In order to make these data available to other workers this paper has been prepared.

There are here recorded 198 different species of external parasites from 255 species and subspecies of wild birds from various States east of the Mississippi River during the years from 1928 to 1935 inclusive. The external parasites considered here are the Mallophaga or biting lice, the Hippoboscidae or bird-flies, the mites, and the ticks. Only records from the files of the Bureau of Entomology and Plant Quarantine are included, no attempt having been made to complete the list by compiling records from other collections or published data. Previous lists of Mallophaga have been published which may be consulted for additional data (see list of references). Owing to the large number of birds listed and the limits of time and space, it was necessary to confine the distribution data to the States in which each species of parasite was collected.

I want to take this opportunity to thank the many persons who have sent material to us for helping to gather the information here presented. I wish also to acknowledge the valuable assistance of the specialists who identified the material recorded in this list. The flies were determined by the late Dr. J. M. Aldrich of the United States National Museum and by Dr. J. Bequaert of Harvard University Medical School, the mites by Dr. H. E. Ewing of the Bureau of Entomology and Plant Quarantine, and the ticks by Dr. F. C. Bishopp and Mr. C. N. Smith of the same bureau. The Mallophaga were all determined by the author.

There are some birds from which few kinds of parasites have been obtained. Other birds were found to harbor many species; such were the Bob-white, Song Sparrow, and Robin, from each of which fifteen species of parasites are listed. There are some species of birds found in the region considered in this paper from which no parasites

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have been secured. Of course not every individual bird of a single species is found with all of the parasites listed, but if enough individuals of each bird species are studied from different localities a more complete understanding of the parasite fauna is obtained. I believe it is possible for every kind of bird to have at least three kinds of lice, one or two hippoboscids, and several mites, and that those birds feeding or alighting on the ground may carry one or more kinds of ticks. More field collecting and more interest on the part of persons handling birds, such as bird-banders, would greatly increase our knowledge of this subject. It is hoped that other workers will be able to fill gaps in this list and to record parasites from species of birds not included here.

It will be noticed that there are many records of the finding of the same species of parasite on a number of different kinds of birds. This may be due, first, to the fact that the parasite is naturally widely distributed or, second, to the fact that insufficient study has been given to differentiating variations in the parasite that might be sufficient to establish new species or varieties. An example of the first case is the common rabbit tick, *Hæmaphysalis leporis-palustris*, the most widely distributed parasite found in this study, which is recorded from 46 birds in this list. An example of the second case is the louse *Philopterus subflavescens*, recorded from 42 birds. Careful study by a taxonomist having a large series of this louse at hand should result in the separation of a number of new species or varieties. Among the Hippoboscidae, or bird-flies, there are two species widely distributed on passerine birds—*Ornithoica confluenta*, recorded on 27 species, and *Ornithomyia anchineuria*, recorded on 32 species. The northern fowl mite, *Liponyssus sylviarum*, was found on 22 species. This illustrates the danger of distribution of economic pests by our wild birds, as well as the danger of disease-transmission by those parasites feeding on blood.

In the following list the birds are arranged in the order of the fourth edition (1931) of the American Ornithologists' Union Check-List. The lice are indicated by (L), the bird flies by (F), the mites by (M), and the ticks by (T). Distribution is shown by abbreviations of the States in which specimens were collected.

Common Loon, *Gavia immer immer* (Brünnich).

(L) *Philopterus graviceps* (Kell.), N. H.

Horned Grebe, *Colymbus auritus* (L.).

(L) *Degeeriella americana* (Kell. & Chap.), Ill.

(L) *Esthioplerum luridum* (Nitz.), Ill.

(L) *Pseudomenopon pacificum* (Kell.), Ill.

Cory's Shearwater, *Puffinus diomedea borealis* Cory.

(L) *Naubates diversum* (Kell.), Mass.

(L) *Philopterus* sp., Mass.

Atlantic Fulmar, *Fulmarus glacialis glacialis* (L.).

(L) *Esthioplerum nigrolimbatum* (Giebel), Mass.

Eastern Brown Pelican, *Pelecanus occidentalis occidentalis* L.

(L) *Esthioplerum forficulatum* (Nitzsch), Fla.

(L) *Ferrisia unciiferum* (Kell.), Fla.

(L) *Tetrophthalmus titan* Piaget, Ala., Fla.

- Gannet, *Moris bassana* (L.).
(L) *Pectinopygus bassanae* Fabr., Me.
- Double-crested Cormorant, *Phalacrocorax auritus auritus* (Lesson).
(L) *Amyrsidea kuwani* (Kell. & Chap.), Ga., Ill.
(L) *Esthiopterum toxocerum* (Nitzsch), Ga., Ill., N. H.
- Florida Cormorant, *Phalacrocorax auritus floridanus* (Audubon).
(L) *Esthiopterum toxocerum* (Nitzsch), Fla.
- Great Blue Heron, *Ardea occidentalis* Audubon.
(L) *Colpocephalum laticeps* (Kell.), Ala., Ohio.
- American Egret, *Casmerodius albus egretta* (Gmelin).
(L) *Colpocephalum laticeps* (Kell.), Pa., Va.
(L) *Esthiopterum botauri* (Osborn), Pa.
(F) *Lynchia americana* Leach, Pa.
(F) *Lynchia botaurinorum* Swenk, N. H.
- Snowy Egret, *Egretta thula thula* (Molina).
(L) *Colpocephalum laticeps* Kell., S. C.
(F) *Lynchia botaurinorum* Swenk, S. C.
- Louisiana Heron, *Hydranassa tricolor ruficollis* (Gosse).
(L) *Colpocephalum laticeps* Kell., S. C., Va.
- Little Blue Heron, *Florida caerulea caerulea* (L.).
(L) *Colpocephalum laticeps* Kell., N. C., N. H., S. C.
(F) *Lynchia ardeae* Mcq., Ala.
- Black-crowned Night Heron, *Nycticorax nycticorax hoactli* (Gmelin).
(L) *Colpocephalum laticeps* Kell., D. C.
(F) *Lynchia albipennis* Say, Ohio.
- American Bittern, *Botaurus lentiginosus* (Montagu).
(L) *Esthiopterum botauri* (Osb.), Ala., N. H.
(L) *Pseudomenopon pacificum* (Kell.), La.
(L) *Rallicola bisetosa* (Piaget), La.
(F) *Lynchia botaurinorum* Swenk, Ohio.
- Eastern Least Bittern, *Ixobrychus exilis exilis* (Gmelin).
(L) *Pseudomenopon pacificum* (Kell.), La.
(L) *Rallicola bisetosa* (Piaget), La.
(M) *Trombicula irritans* (Riley), La.
- Wood Ibis, *Mycteria americana* L.
(L) *Ferrisia femorata* (Piaget), Fla.
- White Ibis, *Guara alba* (L).
(L) *Ibidacus* sp., Fla., Ga.
- Whistling Swan, *Cygnus columbianus* (Ord.)
(L) *Menopon* sp., N. C.
(L) *Trinoton anserinum* (Fabr.), Md., N. C., Pa.
- Common Canada Goose, *Branta canadensis canadensis* (L).
(L) *Anataeus dentatus* (Scopoli), Ga.
(L) *Ornithobius goniopleurus* Denny, Ga., N. H.
(L) *Trinoton querquedulae* (L), Ga.
- American Brant, *Branta bernicla hrota* (Muller).
(L) *Esthiopterum crassicorne* (Scopoli), N. H.
- Lesser Snow Goose, *Chen hyperborea hyperborea* (Pallas).
(L) *Anataeus dentatus* (Scopoli), Mich.
(L) *Anataeus obtusus* (Giebel), Mich.
(L) *Trinoton querquedulae* (L.), Mich.
- Greater Snow Goose, *Chen hyperborea atlantica* Kennard.
(L) *Anataeus dentatus* (Scopoli), Va.
(L) *Esthiopterum anseris* (L.), S. C., Va.
- Blue Goose, *Chen caerulescens* (L.).
(L) *Anataeus dentatus* (Scopoli), Ga.
(L) *Trinoton querquedulae* (L.), Ga.
- Common Mallard, *Anas platyrhynchos platyrhynchos* L.
(L) *Trinoton querquedulae* (L), Mich., S. C.

- Common Black Duck, *Anas rubripes tristis* Brewster.
 (L) *Anatæcus dentatus* (Scopoli), Md., N. H., N. Y., S. C.
 (L) *Esthiopterum crassicornæ* (Scopoli), N. H., N. Y., S. C.
 (L) *Trinoton querquedula* (L.), Md., N. H., S. C.
- Gadwall, *Chaulelasmus streperus* (L.).
 (L) *Anatæcus dentatus* (Scopoli), Mass.
 (L) *Esthiopterum crassicornæ* (Scopoli), Mass., S. C.
 (L) *Trinoton querquedula* (L.), Mass., S. C.
- Baldpate, *Mareca americana* (Gmelin).
 (L) *Esthiopterum crassicornæ* (Scopoli), N. H.
 (L) *Trinoton querquedula* (L.), Va.
- American Pintail, *Dafila acuta tzitzihoa* (Vieillot).
 (L) *Anatæcus dentatus* (Scopoli), S. C.
 (L) *Esthiopterum crassicornæ* (Scopoli), La., Mass., S. C.
 (L) *Trinoton querquedula* (L.), La., S. C.
- Green-winged Teal, *Nettion carolinense* (Gmelin).
 (L) *Esthiopterum crassicornæ* (Scopoli), N. H.
 (L) *Trinoton querquedula* (L.), N. H.
- Blue-winged Teal, *Querquedula discors* (L.).
 (L) *Esthiopterum crassicornæ* (Scopoli), N. H.
 (L) *Trinoton querquedula* (L.), N. H., S. C.
- Shoveller, *Spatula clypeata* (L.).
 (L) *Esthiopterum crassicornæ* (Scopoli), S. C.
- Wood Duck, *Aix sponsa* (L.).
 (L) *Anatæcus dentatus* (Scopoli), N. H.
 (L) *Esthiopterum crassicornæ* (Scopoli), N. H.
 (L) *Holomenopon loomisii* (Kell.), N. H.
- Ring-necked Duck, *Nyroca collaris* (Donovan).
 (L) *Anatæcus dentatus* (Scopoli), Ala., S. C.
 (L) *Esthiopterum crassicornæ* (Scopoli), Ala., S. C.
 (L) *Trinoton querquedula* (L.), Ala., S. C.
- Lesser Scaup Duck, *Nyroca affinis* (Eyton).
 (L) *Anatæcus dentatus* (Scopoli), Ala., N. H.
 (L) *Esthiopterum crassicornæ* (Scopoli), Ala., N. H., N. C.
 (L) *Trinoton querquedula* (L.), Ala.
- American Golden-eye, *Glaucionetta clangula americana* (Bonaparte).
 (L) *Trinoton querquedula* (L.), Mass.
- Buffle-head, *Charitonetta albeola* (L.).
 (L) *Esthiopterum crassicornæ* (Scopoli), N. H., S. C.
 (L) *Trinoton querquedula* (L.), S. C.
- Old-scaaw, *Clangula hyemalis* (L.).
 (L) *Anatæcus dentatus* (Scopoli), N. H.
 (L) *Esthiopterum crassicornæ* (Scopoli), N. H.
- American Eider, *Somateria mollissima dresseri* Sharpe.
 (L) *Anatæcus dentatus* (Scopoli), Mass.
 (L) *Anatæcus obtusus* (Giebel), Mass.
- White-winged Scoter, *Melanitta deglandi* (Bonaparte).
 (L) *Esthiopterum crassicornæ* (Scopoli), N. H.
- Ruddy Duck, *Erismatura jamaicensis rubida* (Wilson).
 (L) *Anatæcus dentatus* (Scopoli), Ala.
- Red-breasted Merganser, *Mergus serrator* L.
 (L) *Anatæcus dentatus* (Scopoli), Ala., N. H.
 (L) *Anatæcus ferrugineus* (Giebel), Ala.
 (L) *Esthiopterum crassicornæ* (Scopoli), Ala., N. H.
 (L) *Trinoton querquedula* (L.), Fla., Mass.
- Turkey Vulture, *Cathartes aura septentrionalis* Wied.
 (L) *Esthiopterum marginale* (Osborn), Fla.
 (L) *Ferrisia kelloggi* (Osborn), Ill.
 (L) *Læmbothrion glutinans* Nitzsch, Fla., N. C.
 (M) *Eupterolichus* sp., Fla.
 (M) *Liponyssus bursa* (Berlese), Fla.

- Black Vulture, *Coragyps atratus atratus* (Meyer).
(L) *Cuculiphilus alternatum* (Osborn), Ala., Fla.
(L) *Esthiopterum marginale* (Osborn), Ala.
(L) *Ferrisia kelloggi* (Osborn), Ala.
(L) *Læmobothrion glutinans* Nitzsch, Fla.
- Eastern Goshawk, *Astur atricapillus atricapillus* (Wilson).
(L) *Colpocephalum flavescens* Nitzsch, Mass.
(L) *Philopterus taurocephalus* (Kell.), Mass., Pa.
(F) *Lynchia americana* Leach, Pa.
- Sharp-shinned Hawk, *Accipiter velox velox* (Wilson).
(L) *Colpocephalum flavescens* Nitzsch, Ala.
(L) *Degeeriella fusca* (Nitzsch), Md., N. H.
(L) *Philopterus taurocephalus* (Kell.), Ala., S. C.
(F) *Lynchia americana* Leach, Ohio, S. C.
(F) *Lynchia wolcotti* Swenk, Mich.
- Cooper's Hawk, *Accipiter cooperi* (Bonaparte).
(L) *Colpocephalum flavescens* Nitzsch, Va.
(L) *Philopterus taurocephalus* (Kell.), S. C.
(F) *Lynchia americana* Leach, Md., Ohio.
(M) *Neonyssus* sp., Md.
- Eastern Red-tailed Hawk, *Buteo borealis borealis* (Gmelin).
(L) *Colpocephalum flavescens* Nitzsch, Fla., Ga., Ohio, S. C.
(L) *Degeeriella fusca* (Nitzsch), Me., N. H., S. C.
(L) *Philopterus taurocephalus* (Kell.), N. H., Pa., S. C.
(F) *Lynchia americana* Leach, N. C., Ohio
- Northern Red-shouldered Hawk, *Buteo lineatus lineatus* (Gmelin).
(L) *Colpocephalum flavescens* Nitzsch, Pa.
(L) *Philopterus taurocephalus* (Kell.), Md., N. H., Pa.
(F) *Lynchia americana* Leach, Pa.
- Florida Red-shouldered Hawk, *Buteo lineatus alleni* Ridgway.
(L) *Degeeriella fusca* (Nitzsch), Fla., S. C.
(L) *Philopterus taurocephalus* (Kell.), Fla.
(F) *Lynchia americana* Leach, Ala., Ga.
- Broad-winged Hawk, *Buteo platypterus platypterus* (Vieillot).
(L) *Degeeriella fusca* (Nitzsch), Md.
- American Rough-legged Hawk, *Buteo lagopus s. johannis* (Gmelin).
(L) *Degeeriella fusca* (Nitzsch), N. H.
(L) *Philopterus taurocephalus* (Kell.), N. H.
(L) *Colpocephalum flavescens* Nitzsch, Mass., N. H.
- Golden Eagle, *Aquila chrysaetos canadensis* (L.).
(L) *Philopterus haliæti* (Osborn), S. C.
(F) *Lynchia americana* Leach, S. C.
- Southern Bald Eagle, *Haliaeetus leucocephalus leucocephalus* (L.).
(L) *Degeeriella amblys* (Kell.), D. C.
(L) *Ferrisia osborni* (Kell.), Ala., D. C., Mass., Va.
(L) *Læmobothrion titan* Piaget, Ohio, Va.
(L) *Philopterus haliæti* (Osborn), Ala., D. C.
- Marsh Hawk, *Circus hudsonius* (L.).
(L) *Colpocephalum flavescens* Nitzsch, Ala.
(L) *Degeeriella fusca* (Nitzsch), Ala., N. H., Pa., S. C.
(L) *Philopterus taurocephalus* (Kell.), N. H.
(F) *Lynchia americana* Leach, S. C.
- Osprey, *Pandion haliaetus carolinensis* (Gmelin).
(L) *Kurodaia haliæti* (Denny), Fla., S. C.
(F) *Olfersia fossulata* Mcq., Va.
- Duck Hawk, *Falco peregrinus anatum* Bonaparte.
(L) *Colpocephalum flavescens* Nitzsch, Ill., N. H., S. C.
(L) *Degeeriella fusca* (Nitzsch), N. H., S. C.
(F) *Lynchia americana* Leach, S. C.

- Eastern Pigeon Hawk, *Falco columbarius columbarius* L.
 (L) *Degeeriella fusca* (Nitzsch), Mich.
 (F) *Ornithoctona nebulosa* Say, Md.
- Eastern Sparrow Hawk, *Falco sparverius sparverius* L.
 (L) *Degeeriella fusca* (Nitzsch), N. H., N. Y., S. C.
 (T) *Amblyomma americanum* (L.), Fla.
- Eastern Ruffed Grouse, *Bonasa umbellus umbellus* (L.)
 (L) *Lipeurus perplexus* (Kell. & Chap.), N. Y., Pa.
 (L) *Goniocotes* sp., Mass.
 (F) *Lynchia americana* Leach, N. H.
 (T) *Hæmaphysalis leporis-palustris* Packard, Mass., Me., Mich., N. H., R. I.
- Greater Prairie Chicken, *Tympanuchus cupido americanus* (Reichenbach).
 (L) *Menopon monostæchum* Kell., Wis.
 (T) *Hæmaphysalis leporis-palustris* Packard, Wis.
- Prairie Sharp-tailed Grouse, *Pediæcetes phasianellus campestris* Ridgway.
 (L) *Goniodes mammillatus* Rudow, Wis.
 (T) *Hæmaphysalis leporis-palustris* Packard, Wis.
- European Partridge, *Perdix perdix perdix* (L.).
 (L) *Goniodes mammillatus* Rudow, Ohio.
- Eastern Bob-white, *Colinus virginianus virginianus* (L.)
 (L) *Esthiopterum clavatus* (McGregor), Md., Pa., Va.
 (L) *Esthiopterum dovei* (McGregor), Ohio.
 (L) *Goniodes ortygis* Denny, Md., N. C., Ohio, S. C., Va.
 (L) *Lipeurus aberrans* McGregor, Md., Ohio, S. C.
 (L) *Liperus dissimilis* Piaget, Va.
 (L) *Menacanthus* sp., Md., Ohio, Va.
 (F) *Ornithomyia anchineuria* Speiser, Pa.
 (M) *Atricholaelaps* sp., N. C.
 (M) *Hæmogamassus* sp., N. C.
 (M) *Megninia* sp., Ohio.
 (M) *Neoschöngastia americana* (Hirst), Va.
 (T) *Amblyomma americanum* (L.), Ga., Md.
 (T) *Amblyomma maculatum* Koch, Ga.
 (T) *Hæmaphysalis leporis-palustris* Packard, Fla., Ga., N. C., S. C., Tenn., Va.
- (T) *Ixodes diversifossus* Neumann, Md.
- Ring-necked Pheasant, *Phasianus colchicus torquatus* Gmelin.
 (L) *Lipeurus introductus* Kell., N. J.
 (L) *Menopon monostæchum* Kell., N. H., N. J.
- Reeves Pheasant,
 (L) *Menopon monostæchum* Kell., Pa.
- Limpkin, *Aramus pictus pictus* (Meyer).
 (L) *Eulæmóbothrion cubense* (Kell. & Ferris), Fla.
 (L) *Ibidæcus* sp., Fla.
- King Rail, *Rallus elegans elegans* Audubon.
 (L) *Pseudomenopon pacificum* (Kell.), Ala., La.
 (L) *Rallicola bisetosa* (Piaget), Ala., La.
- Wayne's Clapper Rail, *Rallus longirostris waynei* Brewster.
 (L) *Pseudomenopon pacificum* (Kell.), S. C.
 (L) *Rallicola bisetosa* (Piaget), S. C.
- Louisiana Clapper Rail, *Rallus longirostris saturatus* Ridgway.
 (L) *Pseudomenopon pacificum* (Kell.), La.
 (L) *Rallicola bisetosa* (Piaget), La.
- Virginia Rail, *Rallus limicola limicola* Vieillot.
 (L) *Pseudomenopon pacificum* (Kell.), S. C.
 (F) *Lynchia* sp., Mass.
- Sora, *Porzana carolina* (L.).
 (L) *Esthiopterum comstocki* (Kell. & Chap.), S. C.
 (L) *Pseudomenopon pacificum* (Kell.), S. C.
 (T) *Amblyomma americanum* (L.), S. C.

- Florida Gallinule, *Gallinula chloropus cachinnans* Bangs.
(L) *Incidifrons pertusus* (Nitzsch), S. C.
(L) *Pseudomenopon pacificum* (Kell.), D. C., N. J.
(L) *Rallicola bisetosa* (Piaget), S. C.
- American Coot, *Fulica americana americana* Gmelin.
(L) *Eulæmobothrion nigrum* (Burmeister), N. C.
(L) *Incidifrons pertusus* (Nitzsch), Ill., N. C., S. C.
(L) *Pseudomenopon pacificum* (Kell.), Ill., La., N. C., S. C.
(L) *Rallicola advena* (Kell.), D. C., La., S. C.
- American Oyster-catcher, *Hæmatopus palliatus palliatus* Temminck.
(L) *Actornithophilus grandiceps* (Piaget), Ga.
- Piping Plover, *Charadrius melodus* Ord.
(L) *Degeeriella opaca* (Kell. & Chap.), Ga.
- Cuban Snowy Plover, *Charadrius nivosus tenuirostris* (Lawrence).
(L) *Degeeriella* sp., Fla.
(L) *Philopterus* sp., Fla.
- Semipalmated Plover, *Charadrius semipalmatus* Bonaparte.
(L) *Actornithophilus* sp., Ohio.
(L) *Degeeriella opaca* (Kell. & Chap.), Mass., N. H., Ohio, S. C.
(L) *Philopterus conicus* (Denny), Mass., S. C.
- Wilson's Plover, *Pagolla wilsonia wilsonia* (Ord.).
(L) *Degeeriella opaca* (Kell. & Chap.), Fla., Mass., S. C.
- Killdeer, *Oxyechus vociferus vociferus* (L.).
(L) *Actornithophilus ægialitidis* (Durrant), Ala., La., N. H., S. C., Va.
- American Golden Plover, *Pluvialis dominica dominica* (Müller).
(L) *Actornithophilus timidus* (Kell.), Ga.
(L) *Philopterus conicus* (Denny), Mass., N. H., S. C.
- Black-bellied Plover, *Squatarola squatarola* (L.).
(L) *Actornithophilus timidus* (Kell.), Ill., S. C.
(L) *Philopterus conicus* (Denny), Mass., N. H.
- Ruddy Turnstone, *Arenaria interpres morinella* (L.).
(L) *Actornithophilus* sp., Fla.
(L) *Degeeriella* sp., Fla., N. H., S. C.
- American Woodcock, *Philohela minor* (Gmelin).
(T) *Dermacentor nigrolineatus* Packard, Wis.
- Wilson's Snipe, *Capella delicata* (Ord.).
(L) *Degeeriella magnocephala* (Carriker), Md., N. H.
(L) *Philopterus major* (Waterston), Del.
- Long-billed Curlew, *Numenius americanus americanus* Bechstein.
(L) *Cummingsiella testudinaira* (Denny), Ga.
(L) *Degeeriella* sp., Ga.
(L) *Philopterus humeralis* (Denny), Ga.
- Hudsonian Curlew, *Phæopus hudsonicus* (Latham).
(L) *Degeeriella* sp., S. C.
(L) *Philopterus humeralis* (Denny), Fla., Mass., S. C.
- Spotted Sandpiper, *Actitis macularia* (L.).
(L) *Degeeriella rava* (Kell.), Md.
- Greater Yellow-legs, *Totanus melanoleucus* (Gmelin).
(L) *Actornithophilus* sp., La., N. H., S. C.
(L) *Degeeriella austini* Peters, D. C., La., Mass.
(L) *Philopterus* sp., D. C., La.
- Lesser Yellow-legs, *Totanus flavipes* (Gmelin).
(L) *Actornithophilus* sp., Md., S. C.
(L) *Degeeriella falcigera* Peters, D. C., La., N. H., Md., S. C.
(L) *Philopterus* sp., Ga., S. C.
- American Knot, *Calidris canutus rufus* (Wilson).
(L) *Actornithophilus* sp., Fla.
(L) *Degeeriella actophila* (Kell. & Chap.), Fla.
(L) *Degeeriella complexiva* (Kell. & Chap.), Fla.
(L) *Philopterus* sp., Fla.

- Pectoral Sandpiper, *Pisobia melanotos* (Vieillot).
 (L) *Actornithophilus pustulosus* (Piaget), Va.
 (L) *Degeeriella complexiva* (Kell. & Chap.), Va., S. C.
- White-rumped Sandpiper, *Pisobia fuscicollis* (Vieillot).
 (L) *Actornithophilus minus* (Kell. & Chap.), Mass., S. C.
 (L) *Degeeriella actophila* (Kell. & Chap.), Mass.
 (L) *Degeeriella complexiva* (Kell. & Chap.), Mass., Ohio.
- Baird's Sandpiper, *Pisobia bairdi* (Coues).
 (L) *Degeeriella complexiva* (Kell. & Chap.), Mass., Ohio.
- Least Sandpiper, *Pisobia minutilla* (Vieillot).
 (L) *Actornithophilus* sp., D. C., Fla., La.
 (L) *Degeeriella actophila* (Kell. & Chap.), La., S. C.
 (L) *Degeeriella complexiva* (Kell. & Chap.), D. C., S. C.
- Red-backed Sandpiper, *Pelidna alpina sakhalina* (Vieillot).
 (L) *Actornithophilus minus* (Kell. & Chap.), Fla., Mass., S. C.
 (L) *Degeeriella actophila* (Kell. & Chap.), Fla., Mass., S. C.
 (L) *Degeeriella complexiva* (Kell. & Chap.), Fla., Mass., S. C.
 (L) *Philopterus* sp., Mass., N. H., S. C.
 (M) *Sommatericola* sp., S. C.
- Eastern Dowitcher, *Limnodromus griseus griseus* (Gmelin).
 (L) *Actornithophilus uniforme* (Kell.), Fla., Ga., S. C.
 (L) *Degeeriella* sp., Fla.
 (L) *Philopterus* sp., Fla., Mass., N. H., S. C.
- Stilt Sandpiper, *Micropalma himantopus* (Bonaparte).
 (L) *Actornithophilus* sp., Ohio.
- Semipalmated Sandpiper, *Ereunetes pusillus* (L.).
 (L) *Actornithophilus* sp., S. C.
 (L) *Degeeriella actophila* (Kell. & Chap.), S. C.
 (L) *Degeeriella complexiva* (Kell. & Chap.), S. C.
- Western Sandpiper, *Ereunetes maurii* Cabanis.
 (L) *Actornithophilus* sp., Va.
 (L) *Degeeriella actophila* (Kell. & Chap.), Fla., S. C.
 (L) *Degeeriella complexiva* (Kell. & Chap.), Fla., S. C.
 (L) *Philopterus* sp., Fla.
- Marbled Godwit, *Limosa fedoa* (L.).
 (L) *Actornithophilus timidus* (Kell.), Ga., S. C.
 (L) *Degeeriella cordata* (Osborn), Ga., S. C.
- Sanderling, *Crocethia alba* (Pallas).
 (L) *Actornithophilus spinulosum* (Piaget), Mass., S. C.
 (L) *Degeeriella actophila* (Kell. & Chap.), Ill., Mass., Ohio, S. C., Va.
 (L) *Degeeriella complexiva* (Kell. & Chap.), Fla., Ill., Mass., N. H., Ohio,
 S. C., Va.
 (L) *Philopterus* sp., S. C.
- Avocet, *Recurvirostra americana* Gmelin.
 (L) *Degeeriella decipiens* (Nitzsch), Ga.
 (L) *Degeeriella testudinaria* (Children), Ga.
- Northern Phalarope, *Lobipes lobatus* (L.).
 (L) *Degeeriella connexa* (Kell. & Mann), Ohio.
- Parasitic Jaeger, *Stercorarius parasiticus* (L.).
 (L) *Esthiopterum modestum* (Giebel), Mass.
 (L) *Menopon infrequens* Kell., Mass.
 (L) *Philopterus pustulosus* (Nitzsch), Mass.
- Glaucous Gull, *Larus hyperboreus* Gunnerus.
 (L) *Philopterus gonothorax* (Giebel), Ga.
- Great Black-backed Gull, *Larus marinus* L.
 (L) *Actornithophilus funebre* (Kell.), Mass.
 (L) *Degeeriella ornata* (Grube), Mass.
 (L) *Philopterus gonothorax* (Giebel), Mass., N. H.
- Herring Gull, *Larus argentatus smithsonianus* Coues.
 (L) *Actornithophilus funebre* (Kell.), Fla., La., S. C.

- (L) *Degeeriella ornata* (Grube), Fla., La., S. C.
- (L) *Menopon* sp., S. C.
- (L) *Philopterus gonothorax* (Giebel), Conn., Fla., La., Mass., Me., S. C.
- Laughing Gull, *Larus atricilla* L.
 - (L) *Degeeriella punctata* (Nitzsch), S. C.
 - (L) *Philopterus gonothorax* (Giebel), Fla., La., Mass., S. C.
 - (M) *Giebelella* sp., La.
- Bonaparte's Gull, *Larus philadelphia* (Ord.)
 - (L) *Actornithophilus funebre* (Kell.), Ala.
 - (L) *Degeeriella atrimarginata* (Kell. & Chap.), Del.
 - (L) *Degeeriella punctata* (Nitzsch), Del.
 - (L) *Menopon* sp., Del.
 - (L) *Philopterus gonothorax* (Giebel), Ala., Del., N. H.
- Forster's Tern, *Sterna forsteri* Nuttall.
 - (L) *Actornithophilus funebre* (Kell.), Fla.
 - (L) *Philopterus melanocephalus* (Nitzsch), Fla., S. C.
- Common Tern, *Sterna hirundo hirundo* L.
 - (L) *Philopterus melanocephalus* (Nitzsch), S. C., Va.
- Roseate Tern, *Sterna dougalli dougalli* Montagu.
 - (L) *Menopon* sp., Mass.
 - (L) *Philopterus melanocephalus* (Nitzsch), Mass., N. H.
- Eastern Sooty Tern, *Sterna fuscata fuscata* L.
 - (L) *Degeeriella gloriosa* (Kell. & Kuwana), Fla.
 - (L) *Philopterus* sp., Fla.
- Bridled Tern, *Sterna anæthetus melanoptera* Swainson.
 - (L) *Actornithophilus milleri* (Kell. & Kuwana), S. C.
 - (L) *Degeeriella gloriosa* (Kell. & Kuwana), S. C.
 - (L) *Philopterus melanocephalus* (Nitzsch), Ala., S. C.
- Least Tern, *Sterna antillarum antillarum* (Lesson).
 - (L) *Degeeriella* sp., La., S. C.
 - (L) *Philopterus melanocephalus* (Nitzsch), Fla., La., S. C.
- Royal Tern, *Thalasseus maximus maximus* (Boddaert).
 - (L) *Actornithophilus funebre* (Kell.), Fla.
 - (L) *Degeeriella sellata* (Burmeister), S. C.
 - (L) *Menopon* sp., Fla., S. C.
 - (L) *Philopterus melanocephalus* (Nitzsch), Ala., Fla., Ga., La., S. C.
 - (M) *Sommatericola* sp., S. C.
- Caspian Tern, *Hydroprogne caspia imperator* (Coues).
 - (L) *Actornithophilus funebre* (Kell.), Ga., Mass.
 - (L) *Degeeriella præstans* (Kell.), D. C., La., Mass.
 - (L) *Menopon* sp., D. C., Ga., La.
 - (L) *Philopterus melanocephalus* (Nitzsch), D. C., La., Mass.
- Black Tern, *Chlidonias nigra surinamensis* (Gmelin).
 - (L) *Degeeriella phænota* (Nitzsch), S. C.
 - (L) *Philopterus* sp., S. C.
- Noddy Tern, *Anous stolidus stolidus* (L.).
 - (L) *Degeeriella obtusa* (Kell. & Kuwana), Fla.
- Black Skimmer, *Rynchops nigra nigra* L.
 - (L) *Actornithophilus latifasciatus* (Piaget), La., S. C.
 - (L) *Philopterus elongatus* (Piaget), La., S. C.
- Dovekie, *Alle alle* (L.).
 - (L) *Degeeriella maritima* (Kell. & Chap.), Mass., N. H., Pa., S. C.
 - (L) *Holomenopon loomisii* (Kell.), Mass., Pa., S. C.
 - (L) *Philopterus montereyi* (Kell.), Mass., N. H., Pa., S. C.
- Eastern Mourning Dove, *Zenaidura macroura carolinensis* (L.).
 - (L) *Columbicola columbæ* (L.), Ill., Ohio, S. C., Va.
 - (L) *Physconelloides zenaiduræ* (McGregor), Ohio, Va.
 - (M) *Falciger* sp., S. C.

- Eastern Ground Dove, *Columbigallina passerina passerina* (L.).
 (L) *Columbicola columbæ* (L.), Fla.
 (L) *Physconelloides zenaiduræ* (McGregor), Fla.
- Yellow-billed Cuckoo, *Coccyzus americanus americanus* (L.).
 (L) *Cuculiphilus fasciatus* (Scopoli), Va.
 (L) *Cuculæcus coccygus* (Osborn), S. C., Va.
- Barn Owl, *Tyto alba pratensis* (Bonaparte).
 (L) *Kurodaia subpachygaster* (Piaget), Ohio.
- Eastern Screech Owl, *Otus asio nævius* (Gmelin).
 (L) *Kurodaia subpachygaster* (Piaget), D. C.
 (L) *Philoferus cursor* (Nitzsch), S. C.
 (F) *Lynchia americana* Leach, Pa., S. C.
 (F) *Ornithoica confluenta* Say, S. C.
- Great Horned Owl, *Bubo virginianus virginianus* (Gmelin).
 (L) *Eustrigiphilus bubonis* (Osborn), Mass.
 (L) *Kurodaia subpachygaster* (Piaget), Me., Mich., N. C., N. Y., S. C.
 (L) *Philoferus cursor* (Nitzsch), S. C.
 (F) *Lynchia americana* Leach, Ill., Mass., Md., N. H., N. Y., S. C.
- Snowy Owl, *Nyctea nyctea* (L.).
 (L) *Eustrigiphilus ceblebrachys* (Nitzsch), Me., N. H.
- Florida Burrowing Owl, *Speotyto cunicularia floridana* Ridgway.
 (L) *Kurodaia pectinatum* (Osborn), Fla.
 (L) *Philoferus syrni* (Packard), Fla.
- Northern Barred Owl, *Strix varia varia* Barton.
 (L) *Kurodaia subpachygaster* (Piaget), S. C.
 (L) *Philoferus syrni* (Packard), Pa., S. C.
 (F) *Lynchia americana* Leach, Ohio.
- Florida Barred Owl, *Strix varia alleni* Ridgway.
 (L) *Kurodaia subpachygaster* (Piaget), Ala.
 (F) *Lynchia* sp., Ala.
 (M) *Liponyssus* sp., Fla.
- Short-eared Owl, *Asio flammeus flammeus* (Pont.).
 (L) *Philoferus syrni* (Packard), Mich.
- Saw-whet Owl, *Cryptoglaux acadica acadica* (Gmelin).
 (L) *Philoferus cursor* (Nitzsch), Mass., Md.
- Chuck-will's-widow, *Antrostomus carolinensis* (Gmelin).
 (F) *Pseudolynchia brunnea* Latr., Ohio.
 (M) *Trombicula irritans* (Riley), Fla.
- Eastern Nighthawk, *Chordeiles minor minor* (Forster).
 (L) *Esthiopterum macrocephalum* (Kell.), Me., N. H., S. C.
- Chimney Swift, *Chætura pelagica* (L.).
 (L) *Dennyus dubius* (Kell.), Mass., Md., N. Y., Ohio, Pa., S. C., Va.
 (M) *Cyclacarus aberrans* Ewing, Pa.
 (M) *Dermanyssus gallinæ* (Degeer), Va.
- Eastern Belted Kingfisher, *Megaceryle alcyon alcyon* (L.).
 (L) *Philoferus duplicatus* (Piaget), S. C., Va.
- Northern Flicker, *Colaptes auratus luteus* Bangs.
 (L) *Degeeriella marginatula* Harrison, Del.
 (L) *Menacanthus præcursor* (Kell.), N. H., Va.
 (L) *Philoferus jungens* (Kell.), Del., N. H., Va.
 (M) *Atricholælaps glasgowi* (Ewing), Del.
 (M) *Dermanyssus prognepilus* Ewing, Va.
 (M) *Trombicula irritans* (Riley), Va.
- Northern Pileated Woodpecker, *Ceophlæus pileatus abieticola* Bangs.
 (L) *Menacanthus præcursor* (Kell.), N. H.
 (T) *Ornithodoros* sp., S. C.
- Red-bellied Woodpecker, *Centurus carolinus* (L.).
 (L) *Menacanthus præcursor* (Kell.), Ohio.
 (L) *Philoferus californiensis* (Kell.), S. C.

- Red-headed Woodpecker, *Melanerpes erythrocephalus* (L.).
(L) *Degeeriella marginatula* Harrison, S. C.
- Yellow-bellied Sapsucker, *Sphyrapicus varius varius* (L.).
(L) *Philopterus californiensis* (Kell.), Fla., Md., S. C., Vt.
- Northern Hairy Woodpecker, *Dryobates villosus septentrionalis* (Nuttall).
(L) *Menacanthus præcursor* (Kell.), N. H.
(M) *Atricholaelaps* sp., Md.
- Northern Downy Woodpecker, *Dryobates pubescens medianus* (Swainson).
(L) *Philopterus californiensis* (Kell.), Ohio, Va.
(F) *Ornithoica confluenta* Say, N. H.
(F) *Ornithomyia anchineuria* Speiser, N. H.
(M) *Dermanyssus prognephilus* Ewing, Va.
- Red-cokaded Woodpecker, *Dryobates borealis* (Vieillot).
(L) *Degeeriella* sp., N. C.
- Eastern Kingbird, *Tyrannus tyrannus* (L.).
(L) *Degeeriella vulgata* (Kell.), N. Y., Va.
(L) *Ricinus angulatus* (Kell.), S. C.
(M) *Trouessartia* sp., S. C.
- Arkansas Kingbird, *Tyrannus verticalis* Say.
(L) *Degeeriella fæda* (Kell.), Mass.
- Northern Crested Flycatcher, *Myiarchus crinitus boreus* Bangs.
(L) *Philopterus subflavescens* (Geoffroy), Fla., Ga.
(M) *Liponyssus sylviarum* (C. & F.), Ala.
(M) *Trombicula irritans* (Riley), S. C.
- Eastern Phcebe, *Sayornis phæbe* (Latham).
(L) *Ricinus* sp., N. H.
(M) *Liponyssus sylviarum* (C. & F.), N. H., Ohio, Pa.
(M) *Proctophyllodes* sp., N. Y.
- Acadian Flycatcher, *Empidonax virescens* (Vieillot).
(L) *Philopterus subflavescens* (Geof.), N. H.
- Least Flycatcher, *Empidonax minimus* (Baird & Baird).
(L) *Ricinus sucinaceus* (Kell.), Ohio.
- Prairie Horned Lark, *Otocoris alpestris praticola* Henshaw.
(T) *Hæmaphysalis leporis-palustris* Packard, Mich.
- Tree Swallow, *Iridoprocne bicolor* (Vieillot).
(L) *Degeeriella longa* (Kell.), Fla., Mich., S. C.
(L) *Myrsidea dissimilis* (Kell.), Fla., Mass., Mich., N. H., S. C.
(L) *Philopterus domesticus* (Kell.), Fla., Mich., N. H., S. C.
(M) *Trouessartia* sp., Fla.
- Bank Swallow, *Riparia riparia riparia* (L.).
(L) *Myrsidea dissimilis* (Kell.), S. C.
(M) *Atricholaelaps glasgowi* (Ewing), Pa.
(M) *Liponyssus sylviarum* (C. & F.), Pa.
- Rough-winged Swallow, *Stelgidopteryx ruficollis serripennis* (Audubon).
(M) *Atricholaelaps* sp., Va.
(M) *Liponyssus sylviarum* (C. & F.), Md.
- Barn Swallow, *Hirundo erythrogaster* Boddaert.
(L) *Myrsidea dissimilis* (Kell.), Vt.
(L) *Philopterus domesticus* (Kell.), N. C., S. C.
(M) *Dermanyssus gallinæ* (Degeer), Mass., Mich.
(M) *Liponyssus sylviarum* (C. & F.), N. H., Ohio, Vt.
- Northern Cliff Swallow, *Petrochelidon albifrons albifrons* (Rafinesque).
(L) *Myrsidea dissimilis* (Kell.), N. H.
- Purple Martin, *Progne subis subis* (L.).
(L) *Myrsidea dissimilis* (Kell.), Mich., N. H.
(L) *Philopterus domesticus* (Kell.), Mich., N. H.
(M) *Dermanyssus prognephilus* Ewing, Ala.
- Northern Blue Jay, *Cyanocitta cristata cristata* (L.).
(L) *Degeeriella eustigma* (Kell.), N. C., Va.
(L) *Menacanthus persignatus* (Kell. & Chap.), Ala.

- (L) *Myrsidea funerea* (Kell. & Chap.), Ala., N. C.
 (L) *Philopterus cristata* Malcomson, Ala., Ga., Md., N. H., S. C., Va.
 (F) *Ornithoica confluenta* Say, Mass., Md.
 (M) *Liponyssus sylviarum* (C. & F.), Va.
 (T) *Hæmaphysalis leporis-palustris* Packard, Md., Va.
- Eastern Crow, *Corvus brachyrhynchos brachyrhynchus* Brehm.
 (L) *Degeeriella rotundata* (Osborn), Md., N. Y.
 (L) *Myrsidea americana* (Kell.), D. C., Md., N. C., N. Y., S. C.
 (L) *Philopterus corvi* (Osborn), Md., N. C., N. Y., S. C.
 (T) *Hæmaphysalis leporis-palustris* Packard, Md.
- Southern Crow, *Corvus brachyrhynchos paulus* Howell.
 (L) *Myrsidea americana* (Kell.), Fla., S. C.
 (L) *Philopterus corvi* (Osborn), S. C.
 (M) *Liponyssus sylviarum* (C. & F.), S. C.
 (M) *Trouessartia corvina* (Koch), Fla.
 (T) *Amblyomma americanum* (L.), S. C.
- Fish Crow, *Corvus ossifragus* Wilson.
 (L) *Myrsidea americana* (Kell.), Fla., S. C.
 (L) *Philopterus corvi* (Osborn), Fla., S. C.
- Black-capped Chickadee, *Penthestes atricapillus atricapillus* (L.).
 (L) *Ricinus* sp., Ohio.
 (F) *Ornithoica confluenta* Say, Mass.
 (M) *Analgopsis passerinus* (L.), N. Y.
- Carolina Chickadee, *Penthestes carolinensis carolinensis* (Audubon).
 (L) *Degeeriella vulgata* (Kell.), Md.
 (M) *Trombicula irritans* (Riley), S. C.
- Tufted Titmouse, *Bæolophus bicolor* (L.).
 (L) *Myrsidea incerta* (Kell.), S. C., Va.
 (L) *Philopterus* sp., Ohio, S. C.
 (M) *Trombicula irritans* (Riley), S. C.
 (T) *Hæmaphysalis leporis-palustris* Packard, S. C., Va.
- White-breasted Nuthatch, *Sitta carolinensis carolinensis* Latham.
 (F) *Ornithoica confluenta* Say, N. H.
 (F) *Ornithomyia anchineuria* Speiser, N. H.
- Eastern House Wren, *Troglodytes ædon* Vieillot.
 (L) *Menopon* sp., N. Y.
 (L) *Philopterus subflavescens* (Geof.), N. Y.
 (M) *Dermanyssus gallinæ* (Deeger), Mass.
 (M) *Liponyssus sylviarum* (C. & F.), D. C., N. Y., Ohio.
 (M) *Trombicula whartoni* Ewing, S. C.
- Carolina Wren, *Thryothorus ludovicianus ludovicianus* (Latham).
 (L) *Degeeriella* sp., S. C.
 (M) *Analgopsis* sp., N. C.
 (M) *Trombicula whartoni* Ewing, N. C.
 (T) *Amblyomma maculatum* Koch, S. C.
 (T) *Dermacenter variabilis* (Say), S. C.
 (T) *Hæmaphysalis leporis-palustris* Packard, N. C., S. C., Va.
 (T) *Ixodes brunneus* Koch, S. C.
- Florida Wren, *Thryothorus ludovicianus miamensis* Ridgway.
 (L) *Philopterus mirus* (Kell. & Chap.), Fla.
- Eastern Mockingbird, *Mimus polyglottos polyglottos* (L.).
 (L) *Degeeriella eustigma* (Kell.), Ala., N. C., S. C.
 (L) *Myrsidea incerta* (Kell.), Ala., Fla., S. C.
 (L) *Philopterus subflavescens* (Geof.), Fla., S. C.
 (M) *Trombicula whartoni* Ewing, S. C.
 (T) *Hæmaphysalis leporis-palustris* Packard, S. C.
- Catbird, *Dumetella carolinensis* (L.).
 (L) *Myrsidea incerta* (Kell.), Fla., Md., N. Y., Ohio, S. C., Vt.
 (F) *Ornithomyia anchineuria* Speiser, Conn., Mass., N. H., N. Y., Vt.

- (M) *Liponyssus occidentalis* Ewing, Pa.
- (M) *Liponyssus sylviarum* (C. & F.), Pa.
- (T) *Hæmaphysalis leporis-palustris* Packard, Mass., N. H.
- (T) *Ixodes brunneus* Koch, Conn., S. C.
- Brown Thrasher, *Toxostoma rufum* (L.).
 - (L) *Degeeriella vulgata* (Kell.), S. C.
 - (L) *Myrsidea incerta* (Kell.), Ala., Fla., Ill., N. Y., S. C.
 - (L) *Philoaterus subflavescens* (Geof.), Mich., N. Y., S. C., Va.
 - (F) *Ornithomyia anchineuria* Speiser, N. Y.
 - (M) *Liponyssus sylviarum* (C. & F.), Ala.
 - (M) *Neoschöngastia americana* (Hirst), N. C.
 - (M) *Pterodectes* sp. S. C.
 - (M) *Trombicula irritans* (Riley), N. C.
 - (M) *Trombicula whartoni* Ewing, S. C.
 - (T) *Hæmaphysalis leporis-palustris* Packard, Md., N. C., S. C., Va.
 - (T) *Ixodes brunneus* Koch, S. C.
- Eastern Robin, *Turdus migratorius migratorius* L.
 - (L) *Degeeriella vulgata* (Kell.), N. C.
 - (L) *Menacanthus chrysophæum* (Kell.), N. C., N. Y.
 - (L) *Myrsidea incerta* (Kell.), Md., Va.
 - (L) *Philoaterus migratorii* Peters, Del., Fla., Mass., N. C., Ohio, Va.
 - (L) *Philoaterus subflavescens* (Geof.), Fla., Ind., N. C.
 - (L) *Ricinus* sp., Del., Va.
 - (F) *Ornithoica confluenta* Say, N. Y.
 - (F) *Ornithomyia anchineuria* Speiser, Mass., N. H., N. Y., Ohio.
 - (M) *Analgopsis* sp., Del.
 - (M) *Cheyletiella* sp., Del.
 - (M) *Liponyssus sylviarum* (C. & F.), D. C., Mass., N. H., N. Y., Ohio.
 - (M) *Neoschöngastia americana* (Hirst), Va.
 - (M) *Trombicula whartoni* Ewing, N. C.
 - (T) *Hæmaphysalis leporis-palustris* Packard, Del., Md., Ohio.
 - (T) *Ixodes brunneus* Koch, S. C.
- Southern Robin, *Turdus migratorius achrustus* (Batchelder).
 - (L) *Degeeriella vulgata* (Kell.), Fla.
 - (L) *Philoaterus subflavescens* (Geof.), Fla.
- Wood Thrush, *Hylocichla mustelina* (Gmelin).
 - (L) *Myrsidea incerta* (Kell.), N. Y.
 - (T) *Hæmaphysalis leporis-palustris* Packard, N. C.
- Eastern Hermit Thrush, *Hylocichla guttata faxoni* Bangs & Penard.
 - (L) *Degeeriella eustigma* (Kell.), N. Y.
 - (L) *Myrsidea incerta* (Kell.), Ala., N. C., N. Y.
 - (L) *Philoaterus subflavescens* (Geof.), Ala., Va.
 - (F) *Ornithoica confluenta* Say, N. H.
 - (F) *Ornithomyia anchineuria* Speiser, N. Y., Wis.
 - (M) *Trombicula whartoni* Ewing, S. C.
 - (T) *Amblyomma tuberculatum* Marx, Fla.
 - (T) *Hæmaphysalis leporis-palustris* Packard, Ala., Mass., Md., N. C., S. C., Va.
 - (T) *Ixodes brunneus* Koch, S. C.
- Olive-backed Thrush, *Hylocichla ustulata swainsoni* (Tschudi).
 - (L) *Myrsidea incerta* (Kell.), Md., N. Y., S. C.
 - (L) *Philoaterus subflavescens* (Geof.), N. H., S. C.
 - (F) *Ornithomyia anchineuria* Speiser, N. Y.
 - (T) *Hæmaphysalis leporis-palustris* Packard, Mass., S. C., Va.
- Gray-cheeked Thrush, *Hylocichla minima alicie* (Baird).
 - (L) *Myrsidea incerta* (Kell.), N. Y.
- Veery, *Hylocichla fuscescens fuscescens* (Stephens).
 - (L) *Degeeriella* sp., N. H.
 - (F) *Ornithomyia anchineuria* Speiser, Conn., N. H., N. Y.

- Eastern Bluebird, *Sialia sialis sialis* (L.).
 (L) *Philoaterus sialii* (Osborn), Fla., N. C., N. H., N. Y., Ohio, S. C., Va.
 (L) *Ricinus* sp., Fla.
 (F) *Ornithomyia anchineuria* Speiser, N. H.
 (M) *Analgopsis* sp., N. C.
 (M) *Dermanyssus prognepphilus* (Ewing), S. C.
- Eastern Golden-crowned Kinglet, *Regulus satrapa satrapa* Lichtenstein.
 (L) *Philoaterus incisus* (Kell.), Va.
 (F) *Ornithoica confluenta* Say, Md., N. Y.
- Eastern Ruby-crowned Kinglet, *Corthylio calendula calendula* (L.).
 (F) *Ornithomyia confluenta* Say, N. Y., S. C.
 (T) *Hæmaphysalis leporis-palustris* Packard, S. C.
- Northern Shrike, *Lanius borealis borealis* Vieillot.
 (L) *Philoaterus subflavescens* (Geof.), N. H.
- Loggerhead Shrike, *Lanius ludovicianus ludovicianus* L.
 (L) *Menacanthus chrysophæum* (Kell.), Fla.
 (L) *Philoaterus subflavescens* (Geof.), Fla., S. C.
 (T) *Ixodes* sp., S. C.
- Migrant Shrike, *Lanius ludovicianus migrans* Palmer.
 (L) *Philoaterus subflavescens* (Geof.), Mich., Ohio, Va.
- Starling, *Sturnus vulgaris vulgaris* L.
 (L) *Degeeriella illustris* (Kell.), Md.
 (L) *Degeeriella nebulosa* (Burmeister), Del., Md., Mich., Ohio, S. C., Va.
 (L) *Menacanthus spinosum* (Piaget), Md., Mich., N. Y., Ohio, S. C., Va.
 (M) *Liponyssus sylviarum* (C. & F.), N. H.
 (T) *Hæmaphysalis leporis-palustris* Packard, Del., Ohio, Va.
- White-eyed Vireo, *Vireo griseus griseus* (Boddaert).
 (L) *Philoaterus subflavescens* (Geof.), S. C.
 (L) *Ricinus* sp., S. C.
- Yellow-throated Vireo, *Vireo flavifrons* Vieillot.
 (T) *Amblyomma* sp., Ga.
- Blue-headed Vireo, *Vireo solitarius solitarius* (Wilson).
 (T) *Hæmaphysalis leporis-palustris* Packard, Ala.
- Red-eyed Vireo, *Vireo olivaceus* (L.).
 (L) *Philoaterus subflavescens* (Geof.), Ala., Md., N. Y., S. C.
 (L) *Ricinus angulatus* (Kell.), Ala.
 (M) *Analgopsis* sp., S. C.
 (M) *Liponyssus sylviarum* (C. & F.), N. H.
 (M) *Trombicula irritans* (Riley), S. C.
- Black and White Warbler, *Mniotilta varia* (L.).
 (L) *Myrsidea incerta* (Kell.), N. Y.
 (F) *Ornithoica confluenta* Say, Mass.
- Northern Parula Warbler, *Compsothlypis americana pusilla* (Wilson).
 (L) *Myrsidea incerta* (Kell.), Ga.
 (L) *Ricinus* sp., S. C.
- Eastern Yellow Warbler, *Dendroica æstiva æstiva* (Gmelin).
 (L) *Philoaterus subflavescens* (Geof.), N. H.
- Magnolia Warbler, *Dendroica magnolia* (Wilson).
 (L) *Degeeriella eustigma* (Kell.), N. Y.
 (L) *Myrsidea incerta* (Kell.), Mass., N. Y.
- Cape May Warbler, *Dendroica tigrina* (Gmelin).
 (L) *Myrsidea incerta* (Kell.), N. Y.
- Myrtle Warbler, *Dendroica coronata* (L.).
 (L) *Degeeriella vulgata* (Kell.), N. Y.
 (L) *Ricinus* sp., N. C.
 (F) *Ornithoica confluenta* Say, N. H.
 (F) *Ornithomyia anchineuria* Speiser, N. Y.
 (M) *Analgopsis* sp., N. C., Va.
 (M) *Proctophyllodes* sp., N. C.

- Blackburnian Warbler, *Dendroica fusca* (Müller).
(L) *Menacanthus chrysophæum* (Kell.), Md.
(L) *Ricinus pallens* (Kell.), Md.
(M) *Proctophyllodes* sp., Md.
- Yellow-throated Warbler, *Dendroica dominica dominica* (L.).
(L) *Myrsidea incerta* (Kell.), S. C.
(M) *Megninia tyrrelli* (Haller), S. C.
- Chestnut-sided Warbler, *Dendroica pensylvanica* (L.).
(L) *Myrsidea incerta* (Kell.), Mass., N. Y.
(M) *Trouessartia* sp., Md.
- Bay-breasted Warbler, *Dendroica castanea* (Wilson).
(L) *Philopterus subflavescens* (Geof.), Md.
- Black-poll Warbler, *Dendroica striata* (Forster).
(L) *Myrsidea incerta* (Kell.), Mass., Md., N. Y.
- Northern Pine Warbler, *Dendroica pinus pinus* (Wilson).
- (T) *Hæmaphysalis leporis-palustris* Packard, S. C.
- Northern Prairie Warbler, *Dendroica discolor discolor* (Vieillot).
(L) *Ricinus pallens* (Kell.), Md.
- (T) *Hæmaphysalis leporis-palustris* Packard, Mich.
- Yellow Palm Warbler, *Dendroica palmarum hypochrysea* Ridgway.
- (T) *Dermacentor variabilis* (Say), S. C.
(M) *Analgopsis passerinus* (L.), N. C.
- Oven-bird, *Seiurus aurocapillus* (L.).
(L) *Menacanthus chrysophæum* (Kell.), N. Y.
(L) *Myrsidea incerta* (Kell.), Md., N. Y.
(M) *Liponyssus sylviarum* (C. & F.), N. H.
- (T) *Hæmaphysalis leporis-palustris* Packard, Mass., S. C.
- (T) *Ixodes brunneus* Koch, S. C.
- Northern Water-Thrush, *Seiurus noveboracensis noveboracensis* (Gmelin).
(L) *Menacanthus* sp., N. Y.
(F) *Ornithoica confluenta* Say, N. H.
(F) *Ornithomyia anchineuria* Speiser, N. H.
- Louisiana Water-Thrush, *Seiurus motacilla* (Vieillot).
- (T) *Hæmaphysalis leporis-palustris* Packard, S. C.
- Kentucky Warbler, *Oporornis formosus* (Wilson).
- (T) *Hæmaphysalis leporis-palustris* Packard, Md.
- Northern Yellow-throat, *Geothlypis trichas brachidactyla* (Swainson).
(L) *Ricinus pallens* (Kell.), Mass., N. Y.
(F) *Ornithoica confluenta* Say, N. H.
(F) *Ornithomyia anchineuria* Speiser, N. H.
- Florida Yellow-throat, *Geothlypis trichas ignota* Chapman.
- (T) *Hæmaphysalis leporis-palustris* Packard, Fla., Ga., S. C.
- Yellow-breasted Chat, *Icteria virens virens* (L.).
(L) *Menacanthus chrysophæum* (Kell.), Md., Ohio.
(M) *Trombicula irritans* (Riley), Va.
- Hooded Warbler, *Wilsonia citrina* (Boddaert).
(L) *Ricinus pallens* (Kell.), Md.
(F) *Ornithoica confluenta* Say, Md.
(F) *Ornithomyia anchineuria* Speiser, Md.
- (T) *Hæmaphysalis leporis-palustris* Packard, Md.
- Canada Warbler, *Wilsonia canadensis* (L.).
(L) *Ricinus pallens* (Kell.), N. Y.
- American Redstart, *Setophaga ruticilla* (L.).
(L) *Menacanthus* sp., N. Y.
(L) *Myrsidea incerta* (Kell.), N. Y.
(L) *Philopterus subflavescens* (Geof.), Md.
- (T) *Hæmaphysalis leporis-palustris* Packard, S. C.
- English Sparrow, *Passer domesticus domesticus* (L.).
(L) *Degeeriella vulgata* (Kell.), Ohio, Wis.
- (T) *Hæmaphysalis leporis-palustris* Packard, Va.

- Eastern Meadowlark, *Sturnella magna magna* (L.).
 (L) *Degeeriella picturata* (Osborn), Md., S. C.
 (L) *Menacanthus chrysophæum* (Kell.), Md., S. C.
 (L) *Philopterus subflavescens* (Geof.), S. C.
 (T) *Hæmaphysalis leporis-palustris* Packard, S. C., Va.
 (T) *Ixodes* sp. S. C.
- Southern Meadowlark, *Sturnella magna argutula* Bangs.
 (L) *Philopterus subflavescens* (Geof.), Fla.
 (M) *Trombicula hominis* Ewing, Fla.
 (T) *Amblyomma tuberculatum* Marx, Fla.
- Eastern Red-wing, *Agelaius phæniceus phæniceus* (L.).
 (L) *Degeeriella illustris* (Kell.), Fla.
 (L) *Myrsidea americana* (Kell.), Fla., S. C.
 (L) *Philopterus subflavescens* (Geof.), Fla., Mass., S. C.
 (F) *Ornithomyia anchineuria* Speiser, Conn.
 (M) *Harpyrhynchus brevis* Ewing, Md.
 (M) *Liponyssus bursa* (Berlese), Fla., S. C.
 (M) *Liponyssus sylviarum* (C. & F.), N. H.
 (T) *Dermacentor variabilis* (Say), S. C.
 (T) *Hæmaphysalis leporis-palustris* Packard, Del., S. C.
- Orchard Oriole, *Icterus spurius* (L.).
 (L) *Myrsidea incerta* (Kell.), S. C.
- Baltimore Oriole, *Icterus galbula* (L.).
 (L) *Ricinus* sp., Mich.
 (F) *Ornithomyia anchineuria* Speiser, Conn.
 (M) *Analgopsis* sp., N. H.
- Rusty Blackbird, *Euphagus carolinus* (Muller).
 (L) *Myrsidea americana* (Kell.), Ohio.
- Boat-tailed Grackle, *Cassidix mexicanus major* (Vieillot).
 (L) *Menacanthus chrysophæum* (Kell.), Fla., Ga.
 (L) *Myrsidea americana* (Kell.), Fla., Ga., La.
 (L) *Philopterus subflavescens* (Geof.), La.
- Purple Grackle, *Quiscalus quiscula quiscula* (L.).
 (L) *Menacanthus chrysophæum* (Kell.), Md.
 (L) *Philopterus quiscali* (Osborn), Mass.
 (F) *Ornithoica confluenta* Say, Mass.
 (F) *Ornithomyia anchineuria* Speiser, Mass.
 (T) *Hæmaphysalis leporis-palustris* Packard, Md., Va.
- Florida Grackle, *Quiscalus quiscula aglæus* Baird.
 (L) *Myrsidea americana* (Kell.), Fla., La., S. C.
 (L) *Philopterus quiscali* (Osborn), Fla., La., S. C.
 (M) *Liponyssus sylviarum* (C. & F.), Ala.
- Bronzed Grackle, *Quiscalus quiscula æneus* Ridgway.
 (L) *Degeeriella illustris* (Kell.), Del.
 (L) *Menacanthus chrysophæum* (Kell.), Ill., Ohio.
 (F) *Ornithoica confluenta* Say, Mass.
 (T) *Hæmaphysalis leporis-palustris* Packard, Del.
- Eastern Cowbird, *Molothrus ater ater* (Boddaert).
 (L) *Degeeriella illustris* (Kell.), Va.
 (F) *Ornithoica confluenta* Say, Mass., N. H.
 (F) *Ornithomyia anchineuria* Speiser, Mass., Mich., N. H., Ohio.
 (M) *Dermanyssus prognepphilus* Ewing, Mich.
 (M) *Liponyssus sylviarum* (C. & F.), Mass.
 (T) *Hæmaphysalis leporis-palustris* Packard, Mich., N. Y.
- Scarlet Tanager, *Piranga erythromelas* Vieillot.
 (L) *Philopterus subflavescens* (Geof.), Md.
 (F) *Ornithomyia anchineuria* Speiser, N. Y.
- Summer Tanager, *Piranga rubra rubra* (L.).
 (L) *Philopterus subflavescens* (Geof.), S. C.
 (M) *Trombicula irritans* (Riley), S. C.

- Eastern Cardinal, *Richmondia cardinalis cardinalis* (L.).
(L) *Myrsidea incerta* (Kell.), Ala., Ga., Md., S. C.
(L) *Philoaterus subflavescens* (Geof.), Fla., Ga., S. C., Va.
(F) *Ornithomyia anchineuria* Speiser, Ohio.
(M) *Analgopsis* sp., Fla., S. C.
(T) *Amblyomma americanum* (L.), S. C.
(T) *Hæmaphysalis leporis-palustris* Packard, Ga., S. C.
(T) *Ixodes* sp., S. C.
- Rose-breasted Grosbeak, *Hedymeles ludovicianus* (L.).
(F) *Ornithocona strigilecula* Ferris, Md.
(F) *Ornithomyia anchineuria* Speiser, Mass.
- Painted Bunting, *Passerina ciris* (L.).
(T) *Hæmaphysalis leporis-palustris* Packard, S. C.
- Eastern Purple Finch, *Carpodacus purpureus purpureus* (Gmelin).
(L) *Degeeriella vulgata* (Kell.), Vt.
(L) *Philoaterus subflavescens* (Geof.), Me., N. H.
(F) *Ornithomyia anchineuria* Speiser, Mass., N. H.
(M) *Analgopsis* sp., Ohio.
- Eastern Goldfinch, *Spinus tristis tristis* (L.).
(M) *Analgopsis* sp., Md.
(M) *Proctophyllodes* sp., Mass.
(T) *Hæmaphysalis leporis-palustris* Packard, Md., S. C.
- Red-eyed Towhee, *Pipilo erythrophthalmus erythrophthalmus* (L.).
(L) *Machærilæmus mæstrum* (Kell. & Chap.), N. H., N. Y., S. C.
(L) *Myrsidea melanorum* (Kell.), Ala., Fla., N. Y., S. C., Va.
(L) *Philoaterus subflavescens* (Geof.), Md.
(F) *Ornithoica confluenta* Say, Mass.
(F) *Ornithomyia anchineuria* Speiser, N. Y.
(M) *Analgopsis* sp., Md., S. C.
(M) *Liponyssus sylviarum* (C. & F.), S. C.
(M) *Proctophyllodes* sp., S. C.
(M) *Trombicula whartoni* Ewing, S. C.
(M) *Trouessartia* sp., S. C.
(T) *Amblyomma maculatum* Koch, S. C.
(T) *Dermacentor variabilis* (Say), S. C.
(T) *Hæmaphysalis leporis-palustris* Packard, Md., S. C., Va.
(T) *Ixodes brunneus* Koch, S. C.
- White-eyed Towhee, *Pipilo erythrophthalmus canaster* Howell.
(L) *Philoaterus subflavescens* (Geof.), Ga.
(F) *Ornithoica confluenta* Say, S. C.
- Eastern Savannah Sparrow, *Passerculus sandwichensis savanna* (Wilson).
(L) *Philoaterus subflavescens* (Geof.), Mich., S. C.
(L) *Ricinus diffusus* (Kell.), Mass., S. C.
(F) *Ornithoica confluenta* Say, Ohio, Vt.
(F) *Ornithomyia anchineuria* Speiser, Conn., Mass., Mich., Vt.
(M) *Analgopsis* sp., N. C., S. C., Va.
(M) *Liponyssus sylviarum* (C. & F.), S. C.
(T) *Hæmaphysalis chordeilis* Packard, S. C.
(T) *Hæmaphysalis leporis-palustris* Packard, Ga., Mass., N. C., S. C., Va.
(T) *Ixodes* sp., S. C.
- Sharp-tailed Sparrow, *Ammospiza caudacuta caudacuta* (Gmelin).
(L) *Philoaterus subflavescens* (Geof.), Fla., Ga.
- Northern Seaside Sparrow, *Ammospiza maritima maritima* (Wilson).
(L) *Philoaterus subflavescens* (Geof.), Conn.
- Wakulla Seaside Sparrow, *Ammospiza maritima juncicola* (Griseom & Nichols).
(L) *Philoaterus subflavescens* (Geof.), Fla.
(T) *Hæmaphysalis chordeilis* Packard, Fla.
- Wayne's Seaside Sparrow, *Ammospiza maritima waynei* Oberholser.
(L) *Philoaterus subflavescens* (Geof.), Ga.

- Eastern Vesper Sparrow, *Poæetes gramineus gramineus* (Gmelin).
 (L) *Machærilæmus mæstum* (Kell. & Chap.), Mich.
 (F) *Ornithomyia anchineuria* Speiser, Mich.
- Bachman's Sparrow, *Aimophila æstivalis bachmani* (Audubon).
 (M) *Analgopsis* sp., Ohio.
 (T) *Hæmaphysalis leporis-palustris* Packard, Ga.
- Pine-woods Sparrow, *Aimophila æstivalis æstivalis* (Lichtenstein).
 (L) *Ricinus* sp. Fla.
- Slate-colored Junco, *Junco hyemalis hyemalis* (L.).
 (L) *Degeeriella vulgata* (Kell.), Md., N. H., N. Y., Ohio.
 (L) *Machærilæmus mæstum* (Kell. & Chap.), N. H.
 (L) *Menacanthus chrysophæum* (Kell.), N. H.
 (L) *Philoaterus subflavescens* (Geof.), Mass., Md., N. H., Ohio.
 (L) *Ricinus pallidus* (Kell.), Md.
 (F) *Ornithoica confluenta* Say, Md., N. H., N. Y.
 (F) *Ornithomyia anchineuria* Speiser, Me., N. H., N. Y., Ohio.
 (M) *Analgopsis* sp., N. C., N. H., Va.
 (T) *Hæmaphysalis leporis-palustris* Packard, Md., Mich., Ohio, S. C., Va.
- Eastern Tree Sparrow, *Spizella arborea arborea* (Wilson).
 (L) *Degeeriella vulgata* (Kell.), Ohio.
 (L) *Ricinus* sp., N. Y.
 (M) *Analgopsis* sp., Ohio.
- Eastern Chipping Sparrow, *Spizella passerina passerina* (Bechstein).
 (L) *Philoaterus subflavescens* (Geof.), Ohio.
 (L) *Ricinus* sp., Ohio.
 (F) *Ornithoica confluenta* Say, Mass., N. H., N. Y.
 (F) *Ornithomyia anchineuria* Speiser, Mass., Mich., N. H.
 (M) *Analgopsis* sp., N. C., Ohio, Va.
 (M) *Liponyssus sylviarum* (C. & F.), N. H.
 (T) *Hæmaphysalis leporis-palustris* Packard, N. C., Ohio, Va.
 (T) *Ixodes brunneus* Koch, S. C.
- Eastern Field Sparrow, *Spizella pusilla pusilla* (Wilson).
 (L) *Degeeriella vulgata* (Kell.), N. J.
 (L) *Menacanthus chrysophæum* (Kell.), N. Y.
 (L) *Myrsidea incerta* (Kell.), N. Y.
 (L) *Philoaterus subflavescens* (Geof.), Ohio, Va.
 (F) *Ornithoica confluenta* Say, Ohio.
 (F) *Ornithomyia anchineuria* Speiser, Ohio.
 (M) *Analgopsis* sp., N. C., Va.
 (M) *Liponyssus bursa* (Berlese), Va.
 (M) *Proctophylloides* sp., N. C.
 (M) *Trombicula whartoni* Ewing, Md.
 (T) *Hæmaphysalis leporis-palustris* Packard, Md., N. J., S. C.
 (T) *Ixodes brunneus* Koch, S. C.
 (T) *Ixodes* sp., N. J.
- White-crowned Sparrow, *Zonotrichia leucophrys leucophrys* (Forster).
 (L) *Degeeriella vulgata* (Kell.), N. H.
 (L) *Myrsidea incerta* (Kell.), Vt.
 (L) *Philoaterus subflavescens* (Geof.), Md., Mich., N. H.
 (L) *Ricinus* sp., N. H., Ohio.
 (T) *Hæmaphysalis leporis-palustris* Packard, Mass., Md.
 (T) *Ixodes* sp., Ohio.
- White-throated Sparrow, *Zonotrichia albicollis* (Gmelin).
 (L) *Degeeriella vulgata* (Kell.), D. C., N. Y., S. C.
 (L) *Machærilæmus mæstum* (Kell. & Chap.), S. C.
 (L) *Myrsidea incerta* (Kell.), S. C.
 (L) *Philoaterus subflavescens* (Geof.), Me.
 (L) *Ricinus* sp., Ohio.
 (F) *Ornithoica confluenta* Say, N. Y.

- (F) *Ornithomyia anchineuria* Speiser, Mass., Md., N. H., N. Y., Vt.
- (M) *Analgopsis* sp., Va.
- (M) *Liponyssus sylviarum* (C. & F.), Mass., Md.
- (T) *Hæmaphysalis leporis-palustris* Packard, Mass., Md., Ohio, S. C., Va.
- (T) *Ixodes brunneus* Koch, S. C.
- (T) *Ixodes* sp., Ala., S. C.
- Eastern Fox Sparrow, *Passerella iliaca iliaca* (Merrem).
 - (L) *Degeeriella vulgata* (Kell.), N. Y., S. C.
 - (L) *Menacanthus chrysophæum* (Kell.), N. Y., Vt.
 - (L) *Myrsidea incerta* (Kell.), N. Y.
 - (L) *Philoaterus subflavescens* (Geof.), Mass., Md., Vt.
 - (M) *Liponyssus sylviarum* (C. & F.), N. Y.
 - (M) *Proctophyllodes* sp., S. C.
 - (T) *Hæmaphysalis leporis-palustris* Packard, Mass.
 - (T) *Ixodes* sp., N. C.
- Lincoln's Sparrow, *Melospiza lincolni lincolni* (Audubon).
 - (F) *Ornithoica confluenta* Say, N. H., N. Y.
 - (F) *Ornithomyia anchineuria* Speiser, N. H.
 - (T) *Hæmaphysalis leporis-palustris* Packard, Mass.
- Swamp Sparrow, *Melospiza georgiana* (Latham).
 - (L) *Degeeriella vulgata* (Kell.), S. C.
 - (L) *Menacanthus chrysophæum* (Kell.), N. H.
 - (L) *Philoaterus subflavescens* (Geof.), S. C.
 - (L) *Ricinus* sp., Mich., S. C.
 - (F) *Ornithoica confluenta* Say, N. H.
 - (F) *Ornithomyia anchineuria* Speiser, N. H.
 - (T) *Hæmaphysalis leporis-palustris* Packard, Ga., S. C.
- Eastern Song Sparrow, *Melospiza melodia melodia* (Wilson).
 - (L) *Degeeriella vulgata* (Kell.), Ohio, Va.
 - (L) *Machærilæmus mæstum* (Kell. & Chap.), N. H.
 - (L) *Menacanthus chrysophæum* (Kell.), Conn., Del., D. C., Mass., N. H., N. Y., Ohio, S. C., Va.
 - (L) *Myrsidea incerta* (Kell.), Del., N. H.
 - (L) *Philoaterus subflavescens* (Geof.), S. C.
 - (L) *Ricinus melospizæ* (McGregor), Del., Mich., N. H., Ohio, Pa.
 - (F) *Ornithoica confluenta* Say, Conn., Mass., N. H., Ohio, Vt.
 - (F) *Ornithomyia anchineuria* Speiser, Conn., Mass., N. H., N. Y., Ohio, Wis.
 - (M) *Analgopsis* sp., Del., Ohio, S. C., Va.
 - (M) *Liponyssus sylviarum* (C. & F.), Mass.
 - (M) *Trombicula bisignata* Ewing, Mass.
 - (M) *Trombicula cavicola* Ewing, Del.
 - (T) *Hæmaphysalis leporis-palustris* Packard, Conn., Del., Mass., Md., N. H., N. Y., Ohio, S. C., Va.
 - (T) *Ixodes brunneus* Koch, Mass.
 - (T) *Ixodes* sp., Mass., Md.
- Eastern Snow Bunting, *Plectrophenax nivalis nivalis* (L.).
 - (L) *Menacanthus chrysophæum* (Kell.), Mich., Ohio.
 - (L) *Philoaterus subflavescens* (Geof.), Mich., Ohio.
 - (L) *Ricinus angulatus* (Kell.), Mich.

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