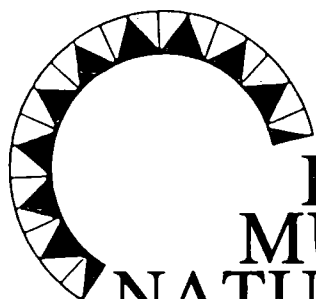


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**CHEWING LICE (MALLOPHAGE)
FROM BIRDS IN FLORIDA:
A LISTING BY HOST**

**Donald J. Forrester, Herbert W. Kale II,
Roger D. Price, K. C. Emerson,
and Garry W. Foster**

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CHEWING LICE (MALLOPHAGA) FROM BIRDS IN FLORIDA: A LISTING BY HOST

**Donald J. Forrester¹, Herbert W. Kale II², Roger D. Price³,
K. C. Emerson⁴, and Garry W. Foster⁵**

ABSTRACT

A host list of chewing lice (Mallophaga) from birds in Florida is presented. This includes lice from 171 of the 446 native birds that occur in the state and represents information on 17 orders and 44 families of birds. Nothing is known for 3 orders and 14 families. Records on the domestic chicken, the Northern Jacana (an introduced exotic), and the Whooping Crane (captive-reared and subsequently released into Florida) are given also for comparative purposes.

RESUMEN

Se presenta una lista de huéspedes de piojos masticadores (Mallophaga) de aves de Florida. Esta lista incluye piojos de 171 de las 446 aves nativas que se encuentran en el estado, representando información de 17 órdenes y 44 familias de aves. Nada se sabe sobre 3 órdenes y 14 familias. Se presentan también, con propósitos comparativos, registros en el pollo doméstico, la Jacana del Norte (ave exótica introducida) y la Grulla Aulladora (criada en cautividad y posteriormente liberada en Florida).

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INTRODUCTION

Chewing lice (Mallophaga) are primarily parasites of birds although some species are found on mammals (Harwood and James 1979). They possess chewing type mandibles, have no wings, and are dorsoventrally flattened (Loomis 1978). Most bird-banders or others who work closely with wild or domestic birds are familiar with these arthropods and often observe them scurrying among the feathers of the bird being handled or crawling off of the bird onto their hands. These specialized insects are very host-specific especially at the host order level, and their distribution usually coincides with that of their host (Turner 1971). They spend their entire life on the host (Loomis 1978). Their eggs usually are laid on the flight feathers, although the exact location varies with the species of louse in question (Turner 1971). After hatching, the nymphs undergo three instars before becoming adults, the entire process taking from 3 to 4 weeks (Turner 1971, Loomis 1978). The normal life span of adults is several months on the avian host, but not over 5 or 6 days off of the host (Loomis 1978).

Transmission of chewing lice from bird to bird occurs through direct contact during mating and brooding and via various roosting and dusting activities (Turner 1971). In addition, an interesting process called phoresy has been documented in which chewing lice move from one host or locality to another by attaching to flying insects such as louse flies, mosquitoes, dragon flies, bumblebees, and even

butterflies (Turner 1971). Some species of chewing lice feed on feathers or feather products (barbs and barbules) while others utilize blood and serum (Turner 1971, Loomis 1978). Harmful effects have been reported for domestic poultry in which infestations of large numbers of lice cause extreme irritation that leads to restlessness, weight loss, and a decrease in egg production (Turner 1971, Harwood and James 1979). Such effects have not been recorded for wild birds; however, in a study of captive Rock Doves (*Columba livia*) it was concluded that "Louse-imposed feather damage may reduce the thermoregulatory ability of the host, which would presumably have a negative impact on host fitness...."(Clayton 1991: 283). Sick or weakened birds often have larger numbers of lice than normal birds and this has been attributed to the inability of compromised birds to keep their lice in check by preening (Turner 1971). However, it is difficult to determine if a bird is in poor health because it has a large number of lice, or if the large number of lice resulted from poor health. Some species of chewing lice serve as biological vectors of filarioid nematodes such as those found in swifts (Dutton 1905, Nelson 1962), geese and swans (Seegar et al. 1976), coots (Bartlett and Anderson 1989), and several shorebirds (Bartlett 1993).

In 1979, Harwood and James reported that there were about 3000 described species of chewing lice in the world. Allowing for work done since that estimate, this number is considerably higher now. Until recently very little has been known about the numbers and distribution of species of chewing lice that occur on birds in Florida. The oldest record of a chewing louse from a Florida bird is that of Timmermann (1971) in which *Saemundssonina sagulata* was described from specimens collected from a Florida Sandhill Crane (*Grus canadensis pratensis*) in 1882. Several lists have been published on the chewing lice of birds in North America including those by Kellogg (1899), Peters (1936), Malcomson (1960), and Emerson (1972). The publication by Peters (1936) is of particular interest because it contained records of lice from 53 species of birds in Florida, although he gave no specific data on localities and dates. Since 1936, only about a dozen or so publications on Florida bird lice have appeared, mostly in the 1980's and early 1990's. We have had the opportunity to collect and identify chewing lice from a large number and variety of birds throughout Florida during the past three decades. Inasmuch as most of the information is not available in published form, we felt that it would be useful to organize these data into a phylogenetic host list to provide a baseline and possible stimulus for further research on these interesting ectoparasites.

ACKNOWLEDGMENTS

Numerous people assisted us in the collection of lice or collected specimens from various birds in Florida over the years and donated them to us for this project. These included Lora R. Ballweber, Joseph A. Conti, Mary C. Garvin, Pamela P. Humphrey, James N. Layne, María S. Sepúlveda, Marilyn G. Spalding, Scott P. Terrell, and many others, too numerous to list here. Robert R. Gerrish, James N. Layne, James W. Mertins, Benjamin N. Tuggle, and Yoshika O. Willis provided valuable unpublished data. Their assistance was much appreciated. This research was supported in part by grants and contracts to one of us (DJF) from

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METHODS

Lice were collected in various ways from living and dead birds by the authors and their colleagues during the past 30 years. Some were seen among the feathers of birds that had been captured alive for banding purposes or for various biological studies. Others were obtained from carcasses of birds that were killed by hunters or by collisions with vehicles on highways or found sick or dead in the field or washed up on beaches. Specimens usually were preserved in 70% alcohol (ethyl or isopropyl) and later mounted on slides for microscopic examination. In addition to our own collections, we obtained records from the Florida State Collection of Arthropods (FSCA, Division of Plant Industry, Florida Department of Agriculture and Consumer Services, Gainesville, Florida), The K. C. Emerson Entomological Museum (EEM, Oklahoma State University, Stillwater, Oklahoma), the U. S. National Museum of Natural History Entomological Collection (USNM, Smithsonian Institution, Washington, D. C.), and from the published literature. We attempted to ascertain the year and the county in Florida from which each collection was made and these are indicated on the following list. We indicate the source [publication or museum collection] in brackets after the year of collection, unless the data are our own, in which case nothing appears after the date. Representatives of specimens that we collected have been deposited in the FSCA and the EEM. Common and scientific names of birds and their respective families and orders and their sequence in the list follow the American Ornithologists' Union's Checklist of North American Birds published in 1983 and subsequent supplements (American Ornithologists' Union 1989, 1991, 1993).

RESULTS AND DISCUSSION

The list of verified birds in Florida totals 457 and includes 446 natives and 11 established exotics (Robertson and Woolfenden 1992). We were able to obtain records of one or more species of chewing lice from 171 of these avian species, representing 17 orders and 44 families that occur in the state. We have no data on 3 orders and 14 families of birds in Florida. This is not to suggest that these latter birds are free of chewing lice, but rather that they have not been studied within the state. Data were also available on domestic chickens, one introduced exotic species (the Northern Jacana), and the Whooping Crane (which had been hatched and reared in captivity and subsequently released into the wild in Osceola County), and these are included. In the list that follows the records are organized by orders and families of avian host. Genera and species of lice are treated alphabetically.

GAVIIFORMES (LOONS)

Gaviidae (Loons)

- Common Loon, *Gavia immer* Brünnich
Craspedonirmus immer Emerson 1955
 Pinellas County - 1973

PODICIPEDIFORMES (GREBES)

Podicipedidae (Grebes)

- Horned Grebe, *Podiceps auritus* (Linnaeus)
Aquanirmus bucomfishi Edwards 1965
 Dade County - 1918 [EEM]

PROCELLARIIFORMES (TUBE-NOSED SWIMMERS)

Diomedidae (Albatrosses) - No information available.

Procellariidae (Shearwaters and Petrels)

- Black-capped Petrel, *Pterodroma hasitata* (Kuhl)
Austromenopon popellus (Piaget 1890)
 Brevard County - 1972
Halipeurus theresae Timmermann 1969
 Brevard County - 1972
 Volusia County - 1977 [EEM]
Saemundssonsonia jamaicensis Timmermann 1962
 Brevard County - 1972 [EEM]
 Cory's Shearwater, *Calonectris diomedea* (Scopoli)
Austromenopon echinatum Edwards 1960
 Brevard County - 1993
Halipeurus abnormis (Piaget 1885)
 Brevard County - 1993
Saemundssonsonia peusi (Eichler 1949)
 Brevard County - 1993
 Greater Shearwater, *Puffinus gravis* (O'Reilly)
Ancistroneura vagelli (J. C. Fabricius 1787)
 Brevard County - 1993 [Foster et al. 1996]
 Martin County - 1993 [Foster et al. 1996]
Austromenopon paululum (Kellogg and Chapman 1899)
 Brevard County - 1972 [EEM]; 1993 [Foster et al. 1996]
 Indian River County - 1972 and 1978-79 [EEM]
 Martin County - 1993 [Foster et al. 1996]
 St. Lucie County - 1979 [EEM]
Halipeurus gravis Timmermann 1961
 Brevard County - 1972 [EEM]; 1993 [Foster et al. 1996]
 Indian River County - 1978-79 [EEM]
 Martin County - 1993 [Foster et al. 1996]

St. Lucie County - 1979

Naubates harrisoni Bedford 1930

Brevard County - 1972 [EEM]; 1993 [Foster et al. 1996]

Indian River County - 1978-79 [EEM]

Martin County - 1993 [Foster et al. 1996]

Saemundssonina peusi (Eichler 1949)

Brevard County - 1972 [EEM]; 1993 [Foster et al. 1996]

Martin County - 1978 [EEM]; 1993 [Foster et al. 1996]

Trabeculus hexakon (Waterston 1914)

Brevard County - 1972 [EEM]; 1993 [Foster et al. 1996]

Indian River County - 1978-79 [EEM]

Martin County - 1978 [EEM]; 1993 [Foster et al. 1996]

St. Lucie County - 1979 [EEM]

Audubon's Shearwater, *Puffinus lherminieri* Lesson*Austromenopon paululum* (Kellogg and Chapman 1899)

Dade County - 1980 [EEM, USNM]

Halipeurus spadix Timmermann 1961

Brevard County - 1980 [EEM, FSCA, USNM]

Lee County - 1983 [FSCA]

Naubates harrisoni Bedford 1930

Dade County - 1980 [EEM]

Trabeculus mirabilis (Kellogg 1896)

Dade County - 1980 [EEM]

Hydrobatidae (Storm-Petrels)

Leach's Storm-Petrel, *Oceanodroma leucorhoa* (Vieillot)*Halipeurus pelagicus* (Denny 1842)

Martin County - 1993

PELECANIFORMES (TOTIPALMATE SWIMMERS)

Phaethontidae (Tropicbirds)

White-tailed Tropicbird, *Phaethon lepturus* Daudin*Saemundssonina uppalensis* (Rudow 1870)

Martin County - 1983 [FSCA]

Red-billed Tropicbird, *Phaethon aethereus* Linnaeus*Saemundssonina phaetona* (Osborn 1890)

Martin County - 1979 [EEM]

Sulidae (Boobies and Gannets)

Masked Booby, *Sula dactylatra* Lesson*Eidmanniella albescens* (Piaget 1880)

Franklin County - 1983

Pectinopygus annulatus (Piaget 1880)

Franklin County - 1983

Brown Booby, *Sula leucogaster* (Boddaert)

Pectinopygus garbei (Pessoa and Guimarães 1935)

St. Lucie County - 1981 [EEM, FSCA, USNM]

Northern Gannet, *Morus bassanus* (Linnaeus)*Eidmanniella pustulosa* (Nitzsch 1866)

Dade County - 1957 [FSCA]

Indian River County - 1969, 1971, 1974-75 [EEM]; 1976, 1978-79;
1981 [USNM]

Lee County - 1981 [EEM, FSCA]

Martin County - 1978 [EEM]; 1993

Palm Beach County - 1988

Volusia County - 1927 [FSCA]

Pectinopygus bassani (O. Fabricius 1780)

Dade County - 1957 [FSCA]

Indian River County - 1969, 1971, 1974-76, 1978-79 [EEM]; 1981
[EEM, FSCA]

Lee County - 1981 [EEM, FSCA]

Martin County - 1978 [EEM]; 1993

Palm Beach County - 1988, 1993

Volusia County - 1927 [FSCA, USNM]

Pelecanidae (Pelicans)

American White Pelican, *Pelecanus erythrorhynchos* Gmelin*Colpocephalum unciferum* Kellogg 1896

Clay County - 1982

Lee County - 1981 [EEM, FSCA]

Monroe County - 1957 [FSCA]

Orange County - 1972 [EEM]; 1990

Pectinopygus tordoffi Elbel and Emerson 1956

Clay County - 1982

Lee County - 1981 [EEM]

Orange County - 1972 [EEM]; 1990

Piagetiella peralis (Leidy 1878)

Lee County - 1993

Orange County - 1972, 1990

Brown Pelican, *Pelecanus occidentalis* Linnaeus*Colpocephalum occidentalis* Price 1967

Brevard County - 1972

Indian River County - 1976 [EEM]

Lee County - 1980-82 and 1984-85 [EEM, FSCA]

Pinellas County - 1930 [Price 1967]; 1973

Pectinopygus occidentalis Thompson 1948

Brevard County - 1972 [EEM]

Indian River County - 1976 [EEM]; 1981 [EEM, FSCA]

Lee County - 1980 and 1985 [EEM]; 1981-82 [EEM, FSCA]; 1984 [FSCA]

Palm Beach County - 1973 [EEM]

Pinellas County - 1930 [USNM]; 1973

Piagetiella bursaepelecani (Perry 1876)

Pinellas County - 1930 [USNM]

Phalacrocoracidae (Cormorants)

Double-crested Cormorant, *Phalacrocorax auritus* (Lesson)

Eidmanniella pellucida (Rudow 1869)

Indian River County - 1974 [EEM]

Lee County - 1980 [EEM]; 1981 [EEM, FSCA]

Monroe County - 1992

"West coast" - 1973-76 [Threlfall 1982]

Pectinopygus farallonii (Kellogg 1896)

Brevard County - 1976 [Threlfall 1982]; 1977

Lee County - 1979, 1981 [EEM, FSCA]; 1978, 1980 [EEM];
1983-84 [FSCA]

Monroe County - 1989, 1992

Pinellas County - 1929, 1931 [USNM]; 1931 [EEM]

"West coast" - 1973-76 [Threlfall 1982]

Piagetiella incomposita (Kellogg and Chapman 1899)

Lee County - 1984 [EEM, FSCA]

Monroe County - 1992

"West coast" - 1973-76 [Threlfall 1982]

No specific locality or date given [Price 1970]

Anhingidae (Darters)

Anhinga, *Anhinga anhinga* (Linnaeus)

Ciconiophilus decimfasciatus (Boisduval and Lacordaire 1835)

Indian River County - 1969 [EEM]

Pectinopygus anhingae (Peters 1935)

Indian River County - 1969 [EEM]

Lee County - 1982-83 [EEM]

Fregatidae (Frigatebirds)

Magnificent Frigatebird, *Fregata magnificens* Mathews

Colpocephalum spineum Kellogg 1899

Levy County - 1956 [EEM, FSCA]

Monroe County - 1977

Fregatiella aurifasciata (Kellogg 1899)

Levy County - 1956 [EEM, FSCA]

Pectinopygus fregatiphagus (Eichler 1943)

Levy County - 1956 [EEM, FSCA, USNM]

Monroe County - 1968 [EEM]

CICONIIFORMES (HERONS, IBISES, STORKS, ALLIES)

Ardeidae (Herons, Egrets)

Great Blue Heron, *Ardea herodias* Linnaeus*Ardeicola cruscula* Carriker 1960

Collier County - 1994

Glades County - 1976

Ciconiphilus decimfasciatus (Boisduval and Lacordaire 1835)

Alachua County - 1994

Brevard County - 1969

Collier County - 1993-94

Lee County - 1985 [EEM]

Monroe County - 1966 [EEM, USNM]; 1988-89, 1995

Okeechobee County - 1981

Osceola County - 1993

Great White Heron, *Ardea herodias occidentalis* (Audubon)*Ardeicola cruscula* Carriker 1960

Collier County - 1994

Monroe County - 1995

Ardeicola sp.

Collier County - 1988

Dade County - 1988

Monroe County - 1988

Palm Beach County - 1988

Ciconiphilus decimfasciatus (Boisduval and Lacordaire 1835)

Collier County - 1988

Dade County - 1988

Monroe County - 1987-89, 1994-95

Würdeman's Heron, *Ardea herodias* Linnaeus (a cross between the Great Blue Heron and the Great White Heron)*Ardeicola cruscula* Carriker 1960

Monroe County - 1995

Great Egret, *Casmerodius albus* (Linnaeus)*Ardeicola expallidus* Blagoveshtchensky 1940

Collier County - 1994

Dade County - 1993-94

Monroe County - 1987-89, 1994

Okeechobee County - 1990

Ciconiphilus decimfasciatus (Boisduval and Lacordaire 1835)

Collier County - 1995

Dade County - 1987, 1989, 1993-94

Monroe County - 1987-89, 1994

Okeechobee County - 1990

Palm Beach County - 1990

Snowy Egret, *Egretta thula* (Molina)

Ardeicola expallidus Blagoveshtchensky 1940

Collier County - 1993

Dade County - 1989

Monroe County - 1987-88, 1990

Okeechobee County - 1989-90

Ciconiphilus decimfasciatus (Boisduval and Lacordaire 1835)

Collier County - 1993

Glades County - 1990

Indian River County - 1967; 1967-69, 1972 [EEM]

Lee County - 1979 [EEM]

Monroe County - 1987-88

Okeechobee County - 1989-90

St. Lucie County - 1966 [EEM]

Little Blue Heron, *Egretta caerulea* (Linnaeus)

Ardeicola florida Carriker 1960

Lee County - 1983 [EEM, FSCA]

Monroe County - 1987-89

Palm Beach County - 1990

Ardeiphilus sp.

Indian River County - 1972 [EEM]

Ciconiphilus decimfasciatus (Boisduval and Lacordaire 1835)

Collier County - 1992

Dade County - 1994

Indian River County - 1966 [EEM]; 1972, 1974

Lee County - 1979 [EEM, FSCA]

Monroe County - 1988

St. Lucie County - 1966

Tricolored Heron, *Egretta tricolor* (Müller)

Ardeicola nigra Tuff 1967

Dade County - 1989

Glades County - 1990

Indian River County - 1966

Lee County - 1983 [EEM]

Monroe County - 1987-90

Ciconiphilus decimfasciatus (Boisduval and Lacordaire 1835)

Indian River County - 1968, 1972 [EEM]

Lee County - 1982 [EEM, FSCA]; 1983 [EEM]

Monroe County - 1970, 1987-90

St. Lucie County - 1970 [EEM]

Reddish Egret, *Egretta rufescens* (Gmelin)

Ardeicola nigra Tuff 1967

Monroe County - 1978 [Conti et al. 1986]; 1988

- Ciconiphilus decimfasciatus* (Boisduval and Lacordaire 1835)
Monroe County - 1978 [Conti et al. 1986]
- Cattle Egret, *Bubulcus ibis* (Linnaeus)
Ardeicola expallidus Blagoveshtchensky 1940
Palm Beach County - 1989
- Ardeiphilus* sp.
Indian River County - 1972 [EEM]
- Ciconiphilus decimfasciatus* (Boisduval and Lacordaire 1835)
Indian River County - 1969, 1972 [EEM]
Palm Beach County - 1989
- Green Heron, *Butorides virescens* (Linnaeus)
Ciconiphilus butoridiphagus Carriker 1964
Indian River County - 1973
- Black-crowned Night-Heron, *Nycticorax nycticorax* (Linnaeus)
Ardeicola goisagi Uchida 1953
Lee County - 1989
- Ciconiphilus decimfasciatus* (Boisduval and Lacordaire 1835)
St. Lucie County - 1966 [EEM]
- Threskiornithidae (Ibises, Spoonbills)
- White Ibis, *Eudocimus albus* (Linnaeus)
Ardeicola elongata Carriker 1960
Broward County - 1978
Glades County - 1989
Indian River County - 1972 [EEM]
Lee County - 1981, 1983 [EEM]
Levy County - 1988
Monroe County - 1987
Okeechobee County - 1990
- Ardeicola robusta* Tuff 1967
Alachua County - 1971 [EEM, Forrester 1980]
Broward County - 1978
Glades County - 1989
Indian River County - 1972 [EEM]
Lee County - 1981 [EEM, FSCA]; 1983 [EEM]
Levy County - 1988
Monroe County - 1987
Okeechobee County - 1990
Palm Beach County - 1989
- Colpocephalum fusconigrum* Giebel 1874
Alachua County - 1971 [EEM]
Broward County - 1978
Glades County - 1989
Indian River County - 1972 [EEM]

- Lee County - 1981, 1983 [EEM]
 Levy County - 1988
 Monroe County - 1987, 1989
 Okeechobee County - 1990
 Palm Beach County - 1989
Ibidoecus bimaculatus (Mjöberg 1910)
 Alachua County - 1971 [EEM]
 Broward County - 1978
 Indian River County - 1969, 1972, 1976 [EEM]
 Lee County - 1981, 1983 [EEM]
 Levy County - 1988
 Monroe County - 1987, 1989
 Okeechobee County - 1990
 Palm Beach County - 1989
 Pinellas County - 1932 [EEM]
Plegadiphilus eudocimus Tuff 1965
 Alachua County - 1971-72 [EEM, Forrester 1980]
 Glades County - 1989
 Indian River County - 1972 [EEM]
 Lee County - 1981 [EEM, FSCA]; 1983 [EEM]
 Levy County - 1988
 Monroe County - 1987-88
 Okeechobee County - 1990
 Palm Beach County - 1989
 Glossy Ibis, *Plegadis falcinellus* (Linnaeus)
Ardeicola raphidius (Nitzsch 1866)
 Glades County - 1971
Colpocephalum leptopygos Nitzsch 1874
 Glades County - 1971
Ibidoecus bisignatus (Nitzsch 1866)
 Glades County - 1971
Plegadiphilus plegadis (Dubinin 1938)
 Glades County - 1971
 Roscate Spoonbill, *Ajaia ajaia* (Linnaeus)
Ardeicola ajajae Carriker 1961
 Monroe County - 1918 [EEM]; 1987-92
 No specific locality or date given [Hajela and Tandan 1970]
Colpocephalum ajajae Ewing 1930
 Lee County - 1982 [EEM]
 Monroe County - 1987-88, 1990
Eucolpocephalum femorale (Piaget 1880)
 Dade County - 1990
 Monroe County - 1989-92

Ibidoecus iberoamericanus Eichler 1943

Dade County - 1990

Glades County - 1971 [EEM]

Lee County - 1982-83 [EEM]

Monroe County - 1918 [USNM]; 1987-90

Ciconiidae (Storks)

Wood Stork, *Mycteria americana* Linnaeus*Ardeicola loculator* (Giebel 1874)

Alachua County - 1982

Broward County - 1963 [USNM]

Collier County - 1993-94

Highlands County - 1960 [Tuff 1967]

Indian River County - 1971

Lafayette County - 1984

Lee County - 1984; 1985 [EEM]; 1989

Monroe County - 1993

Orange County - 1984, 1994

Pasco County - 1975

St. Lucie County - 1978

No specific locality or date given [Kumar and Tandan 1971]

Ciconiphilus quadripustulatus (Burmeister 1838)

Collier County - 1992-94

Dade County - 1979, 1992-93

Lee County - 1985 [EEM]

Liberty County - 1991

Orange County - 1984, 1994

Pasco County - 1975

Colpocephalum mycteriae Price and Beer 1965

Indian River County - 1971 [EEM]

Lee County - 1985 [EEM]

Colpocephalum scalariforme Rudow 1866

Bradford County - 1981 [EEM]

Broward County - 1963 [Price and Beer 1965]

Collier County - 1979, 1989, 1993-94

Highlands County - 1960 [Price and Beer 1965]

Lee County - 1984; 1985 [EEM]

Orange County - 1984, 1994

Pinellas County - 1929 [Price and Beer 1965]

Neophilopterus heteropygus (Nitzsch 1874)

Bradford County - 1981 [EEM]

Collier County - 1989, 1993-94

Dade County - 1979, 1992-93

Indian River County - 1971 [EEM]

Lafayette County - 1984
 Lee County - 1984; 1985 [EEM]; 1989
 Levy County - 1989
 Liberty County - 1991
 Monroe County - 1993
 Orange County - 1976 [EEM]; 1984, 1994
 Pasco County - 1975
 St. Lucie County - 1978 [EEM]

PHOENICOPTERIFORMES (FLAMINGOS)

Phoenicopteridae (Flamingos)

Greater Flamingo, *Phoenicopterus ruber* Linnaeus
Anaticola candidus (Rudow 1869)
 Dade County - 1956 [EEM]
Colpocephalum heterosoma Piaget 1880
 No specific locality or date given [Price and Beer 1965]

ANSERIFORMES (SCREAMERS, SWANS, GEESE, DUCKS)

Anatidae (Ducks, Geese)

Fulvous Whistling-Duck, *Dendrocygna bicolor* (Vieillot)
Acidoproctus rostratus (Rudow 1866)
 Palm Beach County - 1984-85 [Forrester et al. 1994]; 1985 [EEM]
Anatoecus icterodes (Nitzsch 1818)
 Palm Beach County - 1984-85 [Forrester et al. 1994]
Holomenopon leucoxanthum (Burmeister 1838)
 Palm Beach County - 1984-85 [Forrester et al. 1994]
Trinoton aculeatum Piaget 1885
 Palm Beach County - 1984-85 [Forrester et al. 1994]
 Wood Duck, *Aix sponsa* (Linnaeus)
Anaticola crassicornis (Scopoli 1763)
 Alachua County - 1976-77 [Thul 1985]
 Hernando County - 1976-77 [Thul 1985]
 Leon County - 1976-77 [Thul 1985]
 Levy County - 1976-77 [Thul 1985]
Anatoecus dentatus (Scopoli 1763)
 Dade County - 1927 [EEM, USNM]
 Gadsden County - 1976-77 [Thul 1985]
 Glades County - 1976-77 [Thul 1985]
 Hamilton County - 1976-77 [Thul 1985]
 Hernando County - 1976-77 [Thul 1985]
 Leon County - 1976-77 [Thul 1985]
Holomenopon clauseni Price 1971
 Alachua County - 1976-77 [Thul 1985]

- Dade County - 1927 [EEM, Price 1971]
 Gadsden County - 1976-77 [Thul 1985]
 Hamilton County - 1976-77 [Thul 1985]
 Hernando County - 1976-77 [Thul 1985]
 Leon County - 1976-77 [Thul 1985]
 Levy County - 1976-77 [Thul 1985]
Trinoton querquedulae (Linnaeus 1758)
 Alachua County - 1976-77 [Thul 1985]
 Gadsden County - 1976-77 [Thul 1985]
 Hernando County - 1976-77 [Thul 1985]
 Jefferson County - 1926 [USNM]
 Leon County - 1976-77 [Thul 1985]
 American Black Duck, *Anas rubripes* Brewster
Trinoton querquedulae (Linnaeus 1758)
 Dade County - 1919 [EEM]
 Mottled Duck, *Anas fulvigula* Ridgway
Anatoecus icterodes (Nitzsch 1818)
 Glades County - 1971
Trinoton querquedulae (Linnaeus 1758)
 Glades County - 1970 [EEM]
 Mallard, *Anas platyrhynchos* Linnaeus
Anaticola crassicornis (Scopoli 1763)
 Dade County - 1919 [EEM]
 Northern Pintail, *Anas acuta* Linnaeus
Trinoton querquedulae (Linnaeus 1758)
 Dade County - 1928 [USNM]
 Northern Shoveler, *Anas clypeata* Linnaeus
Anticola crassicornis Eichler 1954
 Hamilton County - 1995
Anatoecus dentatus (Giebel 1874)
 Hamilton County - 1995
Trinoton querquedulae (Linnaeus 1758)
 Hamilton County - 1995
 Ring-necked Duck, *Aythya collaris* (Donovan)
Anticola crassicornis Eichler 1954
 "Florida" - 1983
Holomenopon leucoxanthum (Burmeister 1838)
 Leon County - 1936 [USNM]
 "Florida" - 1983
Trinoton querquedulae (Linnaeus 1758)
 "Florida" - 1983
 Lesser Scaup, *Aythya affinis* (Eyton)

- Trinoton querquedulae* (Linnaeus 1758)
 Indian River County - 1973
- Black Scoter, *Melanitta nigra* (Linnaeus)
Anatoecus icterodes (Nitzsch 1818)
 Lee County - 1982 [EEM, FSCA]
Anaticola crassicornis (Scopoli 1763)
 Lee County - 1982 [EEM, FSCA]
Holomenopon leucoxanthum (Burmeister 1838)
 Lee County - 1982 [EEM, FSCA]
- Surf Scoter, *Melanitta perspicillata* (Linnaeus)
Anatoecus sp.
 Dade County - 1919 [EEM]
- Bufflehead, *Bucephala albeola* (Linnaeus)
Anaticola crassicornis (Scopoli 1763)
 Dade County - 1919 [USNM]
- Red-breasted Merganser, *Mergus serrator* Linnaeus
Anaticola crassicornis (Scopoli 1763)
 Dade County - 1919 [EEM]
 Lee County - 1982 [FSCA]; 1986 [EEM]
Anatoecus icterodes (Nitzsch 1818)
 Lee County - 1986 [EEM]
Anatoecus sp.
 Indian River County - 1973
- Trinoton querquedulae* (Linnaeus 1758)
 Lee County - 1982 [EEM, FSCA]; 1986 [EEM]
 Monroe County - 1953 [FSCA]; 1974 [EEM]
 No specific locality or date given [Peters 1936]
- Ruddy Duck, *Oxyura jamaicensis* (Gmelin)
Anaticola crassicornis (Scopoli 1763)
 Lee County - 1982 [EEM, FSCA]
Holomenopon leucoxanthum (Burmeister 1838)
 Lee County - 1982 [EEM, FSCA]

FALCONIFORMES (DIURNAL BIRDS OF PREY)

Cathartidae (American Vultures)

- Black Vulture, *Coragyps atratus* (Bechstein)
Colpocephalum foetens (Eichler 1954)
 Alachua County - 1953 [FSCA]
 Leon County - 1936 [USNM]
- Cuculiphilus alternatus* (Osborn 1902)
 Alachua County - 1953 [FSCA]
 Leon County - 1936 [USNM]
 Pinellas County - 1929 [USNM]

- No specific locality or date given [Peters 1936]
Falcolipeurus marginalis (Osborn 1902)
 Alachua County - 1953 [FSCA]; 1972
 Leon County - 1936 [USNM]
 Pasco County - 1965
- Laemobothrion glutinans* Nitzsch 1861
 Alachua County - 1973
 Pinellas County - 1929 [USNM]
 No specific locality or date given [Peters 1936]
- Turkey Vulture, *Cathartes aura* (Linnaeus)
Colpocephalum kelloggi Osborn 1902
 Alachua County - 1953 [FSCA]
 Brevard County - 1936 [USNM]
 Collier County - 1937 [USNM]
 Dade County - 1917 [USNM]; 1980 [EEM, Y.O. Willis pers. comm.]
- Cuculiphilus alternatus* (Osborn 1902)
 Alachua County - 1953 [FSCA]
 Dade County - 1980 [Y.O. Willis pers. comm.]
- Falcolipeurus marginalis* (Osborn 1902)
 Alachua County - 1953 [FSCA]
 Dade County - 1980 [EEM, Y.O. Willis pers. comm.]
 No specific locality or date given [Peters 1936]
- Laemobothrion glutinans* Nitzsch 1861
 Alachua County - 1953 [EEM, FSCA]
 Dade County - 1980 [EEM, Y.O. Willis pers. comm.]
 Monroe County - 1937 [USNM]
 Osceola County - 1933 [EEM, USNM]; 1934 [EEM]
 No specific locality or date given [Peters 1936]
- Accipitridae (Kites, Eagles, Hawks)
 Osprey, *Pandion haliaetus* (Linnaeus)
Kurodaia haliaeeti (Denny 1842)
 Alachua County - 1934 [USNM]
 Dade County - 1991 [EEM]
 Highlands County - 1979 [FSCA]
 Lake County - 1974 [J.W. Mertins pers. comm.]
 Lee County - 1983 [EEM, FSCA]; 1985 [EEM]
 Pinellas County - 1929 [USNM]; 1975 [J.W. Mertins pers. comm.]
 No specific locality or date given [Peters 1936]
- American Swallow-tailed Kite, *Elanoides forficatus* (Linnaeus)
Colpocephalum osborni Kellogg 1896
 Collier County - 1989, 1992
 Monroe County - 1988

- Cuculiphilus decoratus* (Kellogg 1896)
 Collier County - 1989
 Dade County - 1988 [EEM]
- Degeeriella guimarãesi* Clay 1958
 Collier County - 1992
 No specific locality or date given [EEM, Clay 1958]
- Snail Kite, *Rostrhamus sociabilis* (Vieillot)
Colpocephalum turbinatum Denny 1842
 Broward County - 1993
 Indian River County - 1973 [Sykes and Forrester 1983]
 Osceola County - 1995
- Craspedorrhynchus obscurus* (Giebel 1874)
 Broward County - 1993
 Osceola County - 1995
 Palm Beach County - 1993
 No specific locality or date given [Malcomson 1960]
- Falcolipeurus quadriguttatus* (Giebel 1874)
 Indian River County - 1973 [EEM, Sykes and Forrester 1983]; 1995
- Mississippi Kite, *Ictinia mississippiensis* (Wilson)
Laemobothrion maximum (Scopoli 1763)
 Leon County - 1926, 1960 [USNM]
- Bald Eagle, *Haliaeetus leucocephalus* (Linnaeus)
Colpocephalum flavescens (deHaan 1829)
 Alachua County - 1972 [EEM]
 Leon County - 1938 [USNM]
 Polk County - 1985 [B.N. Tuggle pers. comm.]
- Colpocephalum turbinatum* Denny 1842
 Alachua County - 1994
 Dade County - 1917 [EEM, USNM]
 Lee County - 1980 [EEM]; 1985 [EEM, FSCA]
- Craspedorrhynchus halioti* (Osborn 1896)
 Alachua County - 1994
 Dade County - 1917 [EEM]; 1973
 Flagler County - 1978 [B.N. Tuggle pers. comm.]
 Highlands County - 1981 [B.N. Tuggle pers. comm.]
 Hillsborough County - 1948 [EEM, USNM]
 Leon County - 1938 [USNM]
 Orange County - 1979 [B.N. Tuggle pers. comm.]
 Polk County - 1977; 1985 [B.N. Tuggle pers. comm.]
 Seminole County - 1979 [B.N. Tuggle pers. comm.]
 Volusia County - 1982 [B.N. Tuggle pers. comm.]
 No specific locality or date given [Osborn 1896, Kellogg 1899]

- Degeeriella discocephalus* (Burmeister 1838)
Leon County - 1938 [USNM]
- Kurodaia fulvofasciata* (Piaget 1880)
Marion County - 1954 [FSCA]
- Laemobothrion vulturis* (J. C. Fabricius 1775)
Collier County - 1987
Dade County - 1917 [EEM]
Leon County - 1938 [USNM]
Osceola County - 1993
- Northern Harrier, *Circus cyaneus* (Linnaeus)
Degeeriella fusca (Denny 1842)
Dade County - 1918 [USNM]
- Cooper's Hawk, *Accipiter cooperii* (Bonaparte)
Craspedorrhynchus subhaematopus Emerson 1960
Leon County - 1925 [EEM, Emerson 1960a]
- Northern Goshawk, *Accipiter gentilis* (Linnaeus)
Colpocephalum nanum Piaget 1890
Dade County - 1918 [USNM]
- Red-shouldered Hawk, *Buteo lineatus* (Gmelin)
Craspedorrhynchus buteonis (Packard 1871)
Collier County - 1956 [FSCA]
Lee County - 1983 [EEM]
Pinellas County - 1929 [EEM]
Taylor County - 1977
- Colpocephalum napiforme* Rudow 1869
Columbia County - 1985
- Degeeriella fulva* (Giebel 1874)
Bradford - 1979 [EEM]
Lee County - 1982-83, 1985 [EEM]
Monroe County - 1978 [EEM]; No date given [USNM]
Taylor County - 1976-77
- Kurodaia fulvofasciata* (Piaget 1880)
Collier County - 1956 [FSCA]
- Broad-winged Hawk, *Buteo platypterus* (Vieillot)
Laemobothrion maximum (Scopoli 1763)
Monroe County - 1987 [EEM]
- Short-tailed Hawk, *Buteo brachyurus* Vieillot
Craspedorrhynchus sp.
Dade County - 1956 [FSCA]
- Red-tailed Hawk, *Buteo jamaicensis* (Gmelin)
Colpocephalum napiforme Rudow 1869
Dade County - 1939 [USNM]

Craspedorrhynchus americanus Emerson 1960

Dade County - 1916 [USNM]

St. Johns County - 1936 [USNM]

Degeeriella fulva (Giebel 1874)

Alachua County - 1976

Orange County - 1982 [EEM, USNM]

Seminole County - 1988

Kurodaia fulvofasciata (Piaget 1880)

Dade County - 1916 [EEM, USNM]

Falconidae (Caracaras, Falcons)

Crested Caracara, *Caracara plancus* (Miller)*Acutifrons mexicanus* Emerson 1966

Highlands County - 1992

"South Florida" - 1974 [EEM]

Colpocephalum polybori Rudow 1869

Glades County - 1974, 1976, 1981 [J.N. Layne pers. comm.]; 1978 [EEM, FSCA, J.N. Layne pers. comm.]; 1992

Highlands County - 1974, 1981 [FSCA, J.N. Layne pers. comm.]; 1975, 1978 [EEM, J.N. Layne pers. comm.]; 1976 [FSCA]; 1981 [EEM, FSCA, J.N. Layne pers. comm.]

Okeechobee County - 1992 [J.W. Mertins pers. comm.]

Falcolipeurus josephi Tandan and Dhanda 1963

No specific locality or date given [Tandan and Dhanda 1963]

Laemobothrion maximum (Scopoli 1763)

"Florida" - 1945 [FSCA]

American Kestrel, *Falco sparverius* Linnaeus*Degeeriella carruthi* Emerson 1953

Alachua County - 1925 [FSCA]; 1987

Brevard County - 1973

Clay County - 1982 [EEM, FSCA]

Indian River County - 1970

Nosopon lucidum (Rudow 1869)

Alachua County - 1987

GALLIFORMES (GALLINACEOUS BIRDS)

Phasianidae (Turkeys, Quail)

Domestic Chicken, *Gallus gallus* (Linnaeus)*Gonicotes gallinae* (deGeer 1778)

Indian River County - 1972

Lipeurus caponis (Linnaeus 1758)

Indian River County - 1969

Menacanthus pallidulus (Neumann 1912)

Alachua County - 1943 [EEM]

Menopon gallinae (Linnaeus 1758)

Indian River County - 1969; 1972 [EEM]

Wild Turkey, *Meleagris gallopavo* Linnaeus*Chelopistes meleagridis* (Linnaeus 1758)

Alachua County - 1978

Duval County - 1967 [R.R. Gerrish pers. comm.]; 1972, 1974, 1976-77,
and 1981; 1974, 1977 [EEM]

Escambia County - 1984

Flagler County - 1983

Gadsden County - 1982 [EEM]

Glades County - 1970-72, 1974-75, 1977-79, 1982-83; 1977, 1982
[EEM]

Hendry County - 1970 [EEM]; 1970, 1976

Levy County - 1971 [EEM]; 1971, 1977-78

Manatee County - 1977

Osceola County - 1971, 1975

Menacanthus stramineus (Nitzsch 1818)

Alachua County - 1978 [EEM]

Citrus County - 1987

Duval County - 1967 [R.R. Gerrish pers. comm.]; 1972 [EEM]; 1972,
1974, 1977, 1981

Escambia County - 1984

Flagler County - 1983 [EEM]

Gadsden County - 1982 [EEM]

Glades County - 1970-71, 1973-75, 1977-79, 1982; 1977 [EEM]

Hendry County - 1970 [EEM]; 1970, 1976

Leon County - 1979

Levy County - 1978 [EEM]

Osceola County - 1971, 1975

Oxylipurus corpulentus Clay 1938

Citrus County - 1987

Duval County - 1977 [EEM]; 1974, 1977

Glades County - 1977-78, 1983; 1971, 1973, 1979, 1982 [EEM]

Hendry County - 1976 [EEM]

Levy County - 1977; 1978 [EEM]

Manatee County - 1977

Osceola County - 1971 [EEM]; 1975

Sarasota County - 1970

Oxylipurus polytrapezius (Burmeister 1838)

Alachua County - 1970 [USNM]; 1978

Citrus County - 1987

Collier County - 1919 [USNM]

- Duval County - 1967 [R.R. Gerrish pers. comm.]; 1972, 1974, 1977-78, 1981; 1976 [EEM]
 Escambia County - 1984
 Gadsden County - 1982 [EEM]
 Glades County - 1970 [USNM]; 1970-71, 1973-74, 1977-79; 1975, 1982-83 [EEM]
 Leon County - 1971 [USNM]
 Levy County - 1977-78 [EEM]
 Orange County - 1936 [EEM, USNM]
 Sarasota County - 1970 [USNM]
 No specific locality or date given [Emerson 1951]
 Northern Bobwhite, *Colinus virginianus* (Linnaeus)
Colinicola numidiana (Denny 1842)
 Charlotte County - 1974 [Doster et al. 1980]
 Jefferson County - 1925 [Stoddard 1931]
 Leon County - 1968 [USNM]; 1968-75 [Doster et al. 1980]
 No specific locality or date given [Emerson 1951]
Goniodes ortygis Denny 1842
 Charlotte County - 1974 [Doster et al. 1980]
 Jefferson County - 1926 [USNM]
 Leon County - 1927 [USNM]; 1968-75 [Doster et al. 1980]
 Palm Beach County - 1969 [Doster et al. 1980]
 No specific locality or date given [Emerson 1951]
Menacanthus pricei Wiseman 1968
 Jefferson County - 1926 [EEM, Stoddard 1931]
 Leon County - 1968 [USNM]; 1968-75 [Doster et al. 1980]
Oxylipeurus clavatus (McGregor 1917)
 Charlotte County - 1974 [Doster et al. 1980]
 Jefferson County - 1926 [USNM]
 Leon County - 1968 [USNM]; 1968-75 [Doster et al. 1980]; No date given [Stoddard 1931]
 Palm Beach County - 1969 [Doster et al. 1980]

GRUIFORMES (CRANES, RAILS, ALLIES)

Rallidae (Rails, Gallinules, Coots)

Yellow Rail, *Coturnicops noveboracensis* (Gmelin)

Fulicoffula sp.

Dade County - 1929 [EEM]

Clapper Rail, *Rallus longirostris* Boddaert

Pseudomenopon scopulacorne (Denny 1842)

Lee County - 1982, 1984 [EEM]; 1982 [FSCA]

Volusia County - 1939 [USNM]

- Rallicola californicus* (Kellogg and Chapman 1899)
 Lee County - 1982 [EEM, FSCA]
 Volusia County - 1939 [USNM]
 No specific locality or date given [EEM, Emerson 1955]
- Sora, *Porzana carolina* (Linnaeus)
Fulicoffula distincta Emerson 1960
 Dade County - 1919 [EEM, USNM]; 1930 [EEM, Emerson 1960b]
- Pseudomenopon scopulacorne* (Denny 1842)
 Dade County - 1919 [EEM, USNM]; 1925 [EEM]
- Purple Gallinule, *Porphyryula martinica* (Linnaeus)
Pseudomenopon pilosum (Scopoli 1763)
 Lee County - 1982 [EEM, FSCA]
- Rallicola elliotti* Emerson 1955
 Lee County - 1979 [EEM]; 1982 [EEM, FSCA]
- Common Moorhen, *Gallinula chloropus* (Linnaeus)
Laemobothrion chloropodis (Schränk 1803)
 Alachua County - 1971 [EEM]
 Lee County - 1983 [EEM]
Pseudomenopon pilosum (Scopoli 1763)
 Alachua County - 1971 [EEM]
 Dade County - 1929 [EEM]
 Lee County - 1983 [EEM, FSCA]
- Rallicola minutus* (Nitzsch 1866)
 Dade County - 1929 [EEM]
 Lee County - 1982 [FSCA]
- American Coot, *Fulica americana* Gmelin
Fulicoffula longipila (Kellogg 1896)
 Lee County - 1979 [EEM]
- Incidifrons transpositus* (Kellogg 1896)
 Alachua County - 1972
 Lee County - 1979 [EEM]; 1981 [EEM, FSCA]
- Laemobothrion atrum* (Nitzsch 1818)
 Alachua County - 1971
Pseudomenopon pilosum (Scopoli 1763)
 Alachua County - 1971 [EEM]; 1972
 Indian River County - 1973 [EEM]
 Lee County - 1979, 1981 [EEM]
- Rallicola advenus* (Kellogg 1896)
 Alachua County - 1972
 Indian River County - 1973 [EEM]
 Lee County - 1979, 1981 [EEM]; 1981-82 [FSCA]

Aramidae (Limpkins)

Limpkin, *Aramus guarauna* (Linnaeus)*Ibidoecus scolopaceus* Carriker 1947

Hernando County - 1929 [USNM]

Indian River County - 1971

Laemobothrion cubense Kellogg and Ferris 1915

Hernando County - 1929 [USNM]

Indian River County - 1971

Lake County - 1980 [Conti et al. 1985]

Marion County - 1975 [EEM, Conti et al. 1985]; 1976 [Conti et al. 1985]

Monroe County - 1929 [EEM]

"Florida" - 1921

No specific locality or date given [Peters 1936]

Rallicola funebris (Nitzsch 1866)

Indian River County - 1971 [EEM]

Lake County - 1980 [Conti et al. 1985]

Marion County - 1975 [EEM, Conti et al. 1985]; 1976 [Conti et al. 1985]

Monroe County - 1929 [EEM]

Gruidae (Cranes)

Sandhill Crane, *Grus canadensis* (Linnaeus)*Esthiopterum brevcephalum* (McGregor 1917)

Alachua County - 1973 [EEM]; 1974, 1976-77

Glades County - 1970 [EEM]

Osceola County - 1986, 1993-94

Sarasota County - 1972 [EEM]

Taylor County - 1986

Gruimenopon canadense Edwards 1949

Alachua County - 1970, 1973, 1977, 1979; 1973 [EEM]

Glades County - 1970 [EEM]

Osceola County - 1992-94

Taylor County - 1986

Volusia County - 1993

Heleonomus assimilis (Piaget 1880)

Alachua County - 1974, 1977

Glades County - 1970 [EEM]

Highlands County - 1979 [EEM, FSCA]

Osceola County - 1986, 1992-94

Saemundssonsonia sagulata Timmermann 1971

Alachua County - 1973 [EEM]; 1976-77

Osceola County - 1994

Sarasota County - 1972

"Florida" - 1882 [Timmermann 1971]

Whooping Crane, *Grus americana* (Linnaeus)

Heleonomus assimilis (Piaget 1880)

Osceola County - 1994

(Host had been hatched and reared in captivity and was introduced into Osceola County in November of 1993; found dead and examined in September of 1994 at which time these lice were found.)

CHARADRIIFORMES (SHOREBIRDS, GULLS, ALLIES)

Charadriidae (Plovers)

Snowy Plover, *Charadrius alexandrinus* Linnaeus

Quadraceps macrocephalus (Waterston 1914)

Hillsborough County - 1932 [USNM]

Saemundssonina platygaster pastoris Timmermann 1969

Hillsborough County - 1932 [EEM, USNM]

Wilson's Plover, *Charadrius wilsonia* Ord

Quadraceps macrocephalus (Waterston 1914)

Pinellas County - 1934 [USNM]

Saemundssonina platygaster platygaster (Denny 1842)

Monroe County - 1939 [EEM]

Piping Plover, *Charadrius melodus* Ord

Quadraceps macrocephalus (Waterston 1914)

Indian River County - 1967

Killdeer, *Charadrius vociferus* Linnaeus

Actornithophilus hoplopteri (Mjöberg 1910)

Brevard County - 1957 [FSCA]

Glades County - 1977, 1983

Austromenopon aegialitidis (Durrant 1906)

Dade County - 1930 [USNM]

Lee County - 1937 [USNM]

Quadraceps boeophilus (Kellogg 1896)

Glades County - 1977, 1983

Dade County - 1930 [USNM]

Lee County - 1937 [USNM]

Saemundssonina conica conica (Denny 1842)

Dade County - 1930 [EEM]

Haematopodidae (Oystercatchers)

American Oystercatcher, *Haematopus palliatus* Temminck

Actornithophilus grandiceps (Piaget 1880)

Dade County - 1919 [EEM, USNM]

Quadraceps auratus (deHaan 1829)

Dade County - 1919 [EEM, USNM]

Saemundssonia haematopi (Linnaeus 1758)

Dade County - 1919 [EEM, USNM]; 1929 [EEM]

Recurvirostridae (Stilts, Avocets)

Black-necked Stilt, *Himantopus mexicanus* (Müller)

Quadriceps hemichrous (Nitzsch 1866)

Dade County - 1924 [EEM]

Quadriceps semifissus (Nitzsch 1866)

Dade County - 1924 [EEM]

American Avocet, *Recurvirostra americana* Gmelin

Cirrophthirus testudinarius (Children 1836)

Dade County - 1956 [FSCA]

Quadriceps zephyra (Timmermann 1954)

Dade County - 1956 [FSCA]

Jacanidae (Jacanas)

Northern Jacana, *Jacana spinosa* (Linnaeus)

Rallicola exiguifrons (Carriger 1944)

Dade County - 1930 [EEM, USNM]

Scolopacidae (Sandpipers, Phalaropes)

Willet, *Catoptrophorus semipalmatus* (Gmelin)

Actornithophilus lacustris Clay 1962

Lee County - 1981-82, 1985 [EEM]

Levy County - 1957 [FSCA]

Austroripon sachtlebeni Timmermann 1954

Lee County - 1982, 1985 [EEM]

Levy County - 1957 [FSCA]

Quadriceps carikeri Hopkins and Timmermann 1954

Lee County - 1981-82, 1985 [EEM]

Pinellas County - 1930 [USNM]

Spotted Sandpiper, *Actitis macularia* (Linnaeus)

Quadriceps ravus (Kellogg 1899)

Dade County - 1917 [EEM]

Whimbrel, *Numenius phaeopus* (Linnaeus)

Saemundssonia s. scolopacisphaeopodis (Schränk 1803)

No specific locality or date given [Peters 1936]

Ruddy Turnstone, *Arenaria interpres* (Linnaeus)

Actornithophilus sp.

No specific locality or date given [Peters 1936]

Quadriceps strepsilaris (Denny 1842)

Brevard County - 1957 [FSCA]

Red Knot, *Calidris canutus* (Linnaeus)

Actornithophilus umbrinus (Burmeister 1838)

Lee County - 1985-86 [EEM]

Pinellas County - 1973

- Volusia County - 1938 [USNM]
 No specific locality or date given [Peters 1936]
Actornithophilus canuti Price and Leibovitz 1969
 Dade County - 1924 [EEM]
Austromenopon lutescens (Burmeister 1838)
 Dade County - 1924 [EEM]
 Pinellas County - 1973
Carduiceps zonarius (Nitzsch 1866)
 Brevard County - 1957 [FSCA]
 Lee County - 1983 [EEM]
 Pinellas County - 1975-76
 Volusia County - 1930, 1938 [USNM]
 No specific locality or date given [Peters 1936]
Lunaceps drosti Timmermann 1954
 Brevard County - 1957 [FSCA]
 Dade County - 1924 [EEM]
 Lee County - 1983 [EEM]
 Pinellas County - 1973, 1975-76
Saemundssonina platygaster islandica Timmermann 1951
 Pinellas County - 1930 [USNM]
Saemundssonina tringae (O. Fabricius 1780)
 Pinellas County - 1931 [USNM]
 Sanderling, *Calidris alba* (Pallas)
Actornithophilus umbrinus (Burmeister 1838)
 Indian River County - 1967, 1975
 Lee County - 1985 [EEM]
Carduiceps zonarius (Nitzsch 1866)
 Indian River County - 1975
 Lee County - 1982 [EEM, FSCA]
 No specific locality or date given [Peters 1936]
Luniceps actophilus (Kellogg and Chapman 1899)
 Indian River County - 1975
 Lee County - 1982 [EEM, FSCA]
 Semipalmated Sandpiper, *Calidris pusilla* (Linnaeus)
Actornithophilus umbrinus (Burmeister 1838)
 Volusia County - 1957 [FSCA]
Lunaceps cabanisi Timmermann 1954
 Volusia County - 1957 [FSCA]
 Western Sandpiper, *Calidris mauri* (Cabanis)
Actornithophilus umbrinus (Burmeister 1838)
 Indian River County - 1967, 1975 [EEM]
Carduiceps zonarius (Nitzsch 1866)
 Lee County - 1982 [EEM]

- No specific locality or date given [Peters 1936]
Lunaceps cabansi Timmermann 1954
Lee County - 1982 [EEM]
No specific locality or date given [Peters 1936]
Least Sandpiper, *Calidris minutilla* (Vieillot)
Actornithophilus umbrinus (Burmeister 1838)
Dade County - 1917 [EEM]
Volusia County - 1938 [USNM]
No specific locality or date given [Peters 1936]
Carduiceps zonarius (Nitzsch 1866)
Volusia County - 1938 [USNM]
Saemundssonina tringae (O. Fabricius 1780)
Dade County - 1917 [EEM]
Dunlin, *Calidris alpina* (Linnaeus)
Actornithophilus umbrinus (Burmeister 1838)
Indian River County - 1968
Lee County - 1978 [EEM]
No specific locality or date given [Peters 1936]
Carduiceps meinertzhageni Timmermann 1954
Lee County - 1978 [EEM]
No specific locality or date given [Peters 1936]
Lunaceps nereis Timmermann 1954
No specific locality or date given [Peters 1936]
Stilt Sandpiper, *Calidris himantopus* (Bonaparte)
Carduiceps zonarius (Nitzsch 1866)
Dade County - 1919 [EEM]
Lunaceps nereis Timmermann 1954
Dade County - 1919 [EEM]
Short-billed Dowitcher, *Limnodromus griseus* (Gmelin)
Actornithophilus limarius Clay 1962
No specific locality or date given [Peters 1936]
Quadriceps nigrolimbatus (Mjöberg 1910)
Levy County - 1957 [FSCA]
Saemundssonina tringae (O. Fabricius 1780)
Levy County - 1957 [EEM]
Common Snipe, *Gallinago gallinago* (Linnaeus)
Rhynonirmus scolopacis (Denny 1842)
Dade County - 1929
American Woodcock, *Scolopax minor* Gmelin
Rhynonirmus parsonsae Clay 1961
Dade County - 1930 [EEM, USNM]
Laridae (Skuas, Gulls, Terns, Skimmers)
Laughing Gull, *Larus atricilla* Linnaeus

- Actornithophilus piceus lari* (Packard 1870)
 Lee County - 1980 [EEM]
 Pinellas County - 1965
- Austromenopon transversum* (Denny 1842)
 Lee County - 1980-81 [EEM, FSCA]
- Quadraceps punctatus punctatus* (Burmeister 1838)
 Dade County - 1929 [EEM]
 Lee County - 1980-81 [EEM]; 1980 [EEM, FSCA]; 1982 [FSCA]
- Saemundssonina lari* (O. Fabricius 1780)
 Lee County - 1980 [EEM]; 1981 [EEM, FSCA]
 Pinellas County - 1965
 St. Lucie County - 1976-77 [EEM]
 No specific locality or date given [Peters 1936]
- Bonaparte's Gull, *Larus philadelphia* (Ord)
Saemundssonina lari (O. Fabricius 1780)
 St. Lucie County - 1973
- Ring-billed Gull, *Larus delawarensis* Ord
Austromenopon transversum (Denny 1842)
 Lee County - 1982 [FSCA]
- Quadraceps punctatus sublingulatus* Timmermann 1952
 Lee County - 1980 [EEM]; 1982 [EEM, FSCA]
- Saemundssonina lari* (O. Fabricius 1780)
 Indian River County - 1968, 1976 [EEM]
 Lee County - 1980-81 [EEM]; 1982-83 [EEM, FSCA]
 Levy County - 1957 [FSCA]
- Herring Gull, *Larus argentatus* Pontoppidan
Actornithophilus piceus lari (Packard 1870)
 Lee County - 1981 [EEM]
 Volusia County - 1940 [EEM]
 No specific locality or date given [Peters 1936]
- Austromenopon transversum* (Denny 1842)
 Franklin County - 1937 [USNM]
 Lee County - 1982 [FSCA]
 Volusia County - 1940 [EEM]
- Quadraceps ornatus striolatus* (Nitzsch 1866)
 Lee County - 1984 [FSCA]
 No specific locality or date given [Peters 1936]
- Quadraceps punctatus regressus* Timmermann 1952
 Lee County - 1984 [FSCA]
 Volusia County - 1940 [EEM]
- Saemundssonina lari* (O. Fabricius 1780)
 Brevard County - 1977 [EEM]
 Franklin County - 1937 [USNM]

- Lee County - 1981 [EEM]; 1984 [EEM, FSCA]
Orange County - 1978 [EEM]
Volusia County - 1940 [EEM]
No specific locality or date given [Peters 1936]
Great Black-backed Gull, *Larus marinus* Linnaeus
Saemundssonina lari (O. Fabricius 1780)
St. Lucie County - 1979 [EEM]
Caspian Tern, *Sterna caspia* Pallas
Quadriceps caspius (Giebel 1874)
Indian River County - 1975, 1978
Saemundssonina sp.
Indian River County - 1975 [EEM]; 1978
Royal Tern, *Sterna maxima* Boddaert
Actornithophilus piceus piceus (Denny 1842)
Pinellas County - 1929 [USNM]
No specific locality or date given [Peters 1936]
Austromenopon atrofulvum (Piaget 1880)
Lee County - 1980-81 [EEM]
Quadriceps praestans (Kellogg 1896)
Brevard County - 1972 [EEM]
Lee County - 1978 [EEM]; 1980-82 [EEM, FSCA]
Nassau County - 1974 [EEM]
Saemundssonina laticaudata (Rudow 1869)
Brevard County - 1972
Indian River County - 1968, 1979 [EEM]
Lee County - 1980 [FSCA]; 1981-82, 1984 [EEM, FSCA]
Nassau County - 1974 [EEM]
Pinellas County - 1930 [FSCA, USNM]; No date given [Ward 1955]
St. Lucie County - 1972 [EEM]
Sandwich Tern, *Sterna sandvicensis* Latham
Austromenopon atrofulvum (Piaget 1880)
Lee County - 1980 [EEM]; 1981 [EEM, FSCA]
Quadriceps longicollis (Rudow 1869)
Lee County - 1981 [EEM, FSCA]
Saemundssonina laticaudata (Rudow 1869)
Lee County - 1982 [FSCA]
Common Tern, *Sterna hirundo* Linnaeus
Austromenopon atrofulvum (Piaget 1880)
Martin County - 1974 [EEM]
Quadriceps sellatus (Burmeister 1838)
Indian River County - 1967; 1981 [EEM, FSCA, USNM]
Martin County - 1974 [EEM]

- Saemundssonina sterna* (Linnaeus 1758)
 Indian River County - 1967 [EEM]; 1981 [EEM, FSCA, USNM]
 Martin County - 1974 [EEM]
- Arctic Tern, *Sterna paradisaea* Pontoppidan
Saemundssonina lockeyi Clay 1949
 Volusia County - 1977
- Forster's Tern, *Sterna forsteri* Nuttall
Actornithophilus piceus piceus (Denny 1842)
 Pinellas County - 1931 [USNM]
 No specific locality or date given [Peters 1936]
- Saemundssonina parvigenitalis* Ward 1955
 Pinellas County - 1931 [EEM]; No date given [EEM, Ward 1955]
- Least Tern, *Sterna antillarum* (Lesson)
Actornithophilus piceus piceus (Denny 1842)
 Pinellas County - 1976
- Quadriceps nychthemerus* (Burmeister 1838)
 Indian River County - 1966 [EEM]
 Pinellas County - 1976
- Saemundssonina melanocephala* (Burmeister 1838)
 Collier County - 1955 [FSCA]
 Indian River County - 1966 [EEM]
 No specific locality or date given [Peters 1936]
- Bridled Tern, *Sterna anaethetus* Scopoli
Saemundssonina meridiana Timmermann 1950
 St. Lucie County - 1976
- Sooty Tern, *Sterna fuscata* Linnaeus
Austromenopon atrofulvum (Piaget 1880)
 Monroe County - 1977; 1978 [EEM]
- Quadriceps birostris* (Giebel 1874)
 Indian River County - 1970 [EEM]; 1974
 Lee County - 1982 [EEM, FSCA]
 Monroe County - 1963 [FSCA]; 1968, 1976-78 [EEM]
 No specific locality or date given [Peters 1936]
- Saemundssonina albemarlensis* (Kellogg and Kuwana 1902)
 Indian River County - 1970 [EEM]
 Lee County - 1982 [EEM, FSCA]
 Monroe County - 1963 [FSCA]; 1968, 1976-77 [EEM]
- Black Tern, *Chlidonias niger* (Linnaeus)
Quadriceps phaeonotus (Nitzsch 1866)
 Dade County - 1919 [EEM]
- Saemundssonina lobaticeps* (Giebel 1874)
 Dade County - 1919 [EEM]; 1955 [FSCA]
- Brown Noddy, *Anous stolidus* (Linnaeus)

Actornithophilus incisus (Piaget 1880)

Lee County - 1985 [EEM, FSCA]

Quadriceps separatus (Kellogg and Kuwana 1902)

Lee County - 1985 [EEM]

Monroe County - 1977

Saemundssonina remota Timmermann 1951

Monroe County - 1976 [EEM]

Black Skimmer, *Rynchops niger* Linnaeus

Quadriceps elongatus (Piaget 1885)

Dade County - 1929 [USNM]

Indian River County - 1968, 1978 [EEM]

Lee County - 1981, 1983 [EEM, FSCA]; 1984 [EEM]

Nassau County - 1974 [EEM]

Orange County - 1983

Seminole County - 1983

St. John's County - 1964 [EEM, FSCA]

St. Lucie County - 1981 [FSCA]

Saemundssonina anisorhamphos Timmermann 1951

Lee County - 1983 [EEM]

Alcidae (Auks, Murres, Puffins)

Dovekie, *Alle alle* (Linnaeus)

Austromenopon merguli Timmermann 1954

St. Lucie County - 1966 [EEM]

Quadriceps klatti Timmermann 1954

St. Lucie County - 1966 [EEM]

Saemundssonina merguli (Denny 1842)

St. Lucie County - 1966 [EEM]

COLUMBIFORMES (PIGEONS, DOVES)

Columbidae (Pigeons, Doves)

Rock Dove, *Columba livia* Gmelin

Campanulotes compar (Burmeister 1838)

Indian River County - 1972 [EEM]

Columbicola columbae (Linnaeus 1758)

Indian River County - 1972 [EEM]

Scaly-naped Pigeon, *Columba squamosa* Bonnaterre

Columbicola macrourae (Wilson 1941)

Dade County - 1930 [EEM]

Hohorstiella sp.

Dade County - 1930 [EEM]

White-crowned Pigeon, *Columba leucocephala* Linnaeus

Columbicola macrourae (Wilson 1941)

Monroe County - 1988

Physconelloides sp.

Monroe County - 1988

White-winged Dove, *Zenaida asiatica* (Linnaeus)

Bonomiella sp.

Dade County - 1977-78 [EEM, Conti and Forrester 1981]

Columbicola macroura (Wilson 1941)

Dade County - 1977-78 [Conti and Forrester 1981]

Hohorstiella paladinella Hill and Tuff 1978

Dade County - 1977-78 [EEM, Conti and Forrester 1981]

Hohorstiella sp.

Dade County - 1977-78 [Conti and Forrester 1981]

Physconelloides wisemani Emerson 1960

Dade County - 1977-78 [EEM, Conti and Forrester 1981]

Mourning Dove, *Zenaida macroura* (Linnaeus)

Bonomiella columbae Emerson 1957

Alachua County - 1977-78 [EEM, Conti and Forrester 1981]

Dade County - 1977-78 [EEM, Conti and Forrester 1981]

Columbicola macroura (Wilson 1941)

Alachua County - 1977-78 [EEM, Conti and Forrester 1981]

Dade County - 1977-78 [EEM, Conti and Forrester 1981]

Hohorstiella paladinella Hill and Tuff 1978

Dade County - 1977-78 [Conti and Forrester 1981]

Hohorstiella sp.

Dade County - 1977-78 [Conti and Forrester 1981]

Physconelloides zenaidurae (McGregor 1917)

Alachua County - 1977-78 [EEM, Conti and Forrester 1981]

Dade County - 1919 [USNM]; 1928, 1978 [EEM]; 1977-78 [EEM, Conti and Forrester 1981]

No specific locality or date given [Hill and Tuff 1978]

Common Ground-Dove, *Columbina passerina* (Linnaeus)

Columbicola passerinae (Wilson 1941)

No specific locality or date given [Peters 1936]

Physconelloides passerinae Emerson 1957

Dade County - 1939 [EEM]; No date given [USNM]

Lee County - 1936 [USNM]

No specific locality or date given [Hill and Tuff 1978]

PSITTACIFORMES (PARROTS, ALLIES)

Psittacidae (Lories, Parakeets, Macaws, Parrots) - No information available.

CUCULIFORMES (CUCKOOS, ALLIES)

Cuculidae (Cuckoos, Anis)

Black-billed Cuckoo, *Coccyzus erythrophthalmus* (Wilson)

Cuculicola erythrophthalmus Emerson 1964

Dade County - 1928 [EEM, Emerson 1964]

St. Lucie County - 1967

Yellow-billed Cuckoo, *Coccyzus americanus* (Linnaeus)

Cuculiphilus snodgrassi (Kellogg and Kuwana 1902)

Indian River County - 1970, 1972, 1973

Lee County - 1954, 1982 [FSCA]; 1982, 1986 [EEM]

Cuculoecus coccygii (Osborn 1896)

Dade County - 1917 [EEM, USNM]

Lee County - 1986 [EEM]

St. Lucie County - 1973 [EEM]

STRIGIFORMES (OWLS)

Tytonidae (Barn Owls)

Barn Owl, *Tyto alba* (Scopoli)

Kurodaia subpachygaster (Piaget 1880)

Alachua County - 1983-84

Lee County - 1986 [EEM]

Strigidae (Typical Owls)

Great Horned Owl, *Bubo virginianus* (Gmelin)

Colpocephalum brachysomum Kellogg and Chapman 1902

Lee County - 1981 [EEM, FSCA]; 1983 [EEM]

Marion County - 1956 [EEM, Emerson 1961]

Kurodaia magna Emerson 1960

Dade County - 1917 [USNM]

Strigiphilus oculatus (Rudow 1870)

Marion County - 1956 [FSCA]

Strigiphilus syrnii (Packard 1873)

Alachua County - 1973

Jefferson County - 1981

Burrowing Owl, *Speotyto cunicularia* (Molina)

Colpocephalum pectinatum Osborn 1902

Hendry County - 1933 [USNM]

Sarasota County - 1918 [USNM]

No specific locality or date given [Peters 1936]

Strigiphilus speotyti (Osborn 1896)

Collier County - 1933 [USNM, FSCA]

Hendry County - 1933 [USNM]

Lee County - 1989

Monroe County - 1988

Barred Owl, *Strix varia* Barton

Kurodaia magna Emerson 1960

Alachua County - 1976, 1985

- Hernando County - 1975
- Hillsborough County - 1975
- Marion County - 1982
- Monroe County - 1980 [EEM]
- Orange County - 1936 [USNM]
- Taylor County - 1976
- Strigiphilus syrnii* (Packard 1873)
 - Alachua County - 1976-78 , 1985
 - Dade County - 1917 [USNM]
 - Hendry County - 1984 [EEM, FSCA]
 - Hillsborough County - 1975-76
 - Leon County - 1960 [USNM]
 - Marion County - 1982
 - Monroe County - 1980 [EEM]
 - Orange County - 1936 [USNM]
 - Taylor County - 1976
 - No specific locality or date given [Clayton and Price 1984]
- Short-eared Owl, *Asio flammeus* (Pontoppidan)
 - Strigiphilus cursor* (Burmeister 1838)
 - Dade County - 1916 [USNM]

CAPRIMULGIFORMES (GOATSUCKERS, ALLIES)
 Caprimulgidae (Goatsuckers) - No information available.

APODIFORMES (SWIFTS, HUMMINGBIRDS)
 Apodidae (Swifts)

- Chimney Swift, *Chaetura pelagica* (Linnaeus)
 - Dennyus dubius* (Kellogg 1896)
 - Dade County - 1926 [EEM]
 - Lee County - 1984 [EEM]
 - Leon County - 1936 [USNM]

Trochilidae (Hummingbirds) - No information available

CORACIIFORMES (KINGFISHERS)
 Alcedinidae (Kingfishers) - No information available

PICIFORMES (WOODPECKERS, ALLIES)
 Picidae (Woodpeckers, Allies)

- Red-bellied Woodpecker, *Melanerpes carolinus* (Linnaeus)
 - Penenirmus auritus* (Scopoli 1763)
 - Alachua County - 1953 [FSCA]
 - "Shell Point" - 1936 [USNM]
- Yellow-bellied Sapsucker, *Sphyrapicus varius* (Linnaeus)

Penenirmus auritus (Scopoli 1763)

Dade County - 1917 [EEM, USNM]; 1918, 1926 [EEM]

Pinellas County - 1930 [USNM]; 1964 [EEM]

No specific locality or date given [Peters 1936]

Hairy Woodpecker, *Picoides villosus* (Linnaeus)*Brueelia straminea* (Denny 1842)

Dade County - 1918 [EEM]

Menacanthus pici (Denny 1842)

Dade County - 1918 [EEM]

Penenirmus auritus (Scopoli 1763)

Dade County - 1926

Red-cockaded Woodpecker, *Picoides borealis* (Vieillot)*Brueelia straminea* (Denny 1842)

Collier County - 1937 [USNM]

Polk County - 1994

Northern Flicker, *Colaptes auratus* (Linnaeus)*Picicola porisma* Dalglish 1969

Dade County - 1916 [EEM, USNM]; 1917 [EEM]

Indian River County - 1977

Penenirmus jungens (Kellogg 1896)

Dade County - 1916 [EEM]; 1917 [USNM]

Pileated Woodpecker, *Dryocopus pileatus* (Linnaeus)*Menacanthus pici* (Denny 1842)

Indian River County - 1919 [USNM]

Picicola marginatulus (Harrison 1916)

Alachua County - 1994

PASSERIFORMES (PASSERINE BIRDS)

Tyrannidae (Tyrant Flycatchers)

Great Crested Flycatcher, *Myiarchus crinitus* (Linnaeus)*Philopterus* sp.

No specific locality or date given [Peters 1936]

Alaudidae (Larks) - No information available.

Hirundinidae (Swallows)

Purple Martin, *Progne subis* (Linnaeus)*Brueelia subis* (Carriker 1963)

Lee County - 1981 [EEM]

Myrsidea dissimilis (Kellogg 1896)

Duval County - 1982 [EEM, FSCA]

Franklin County - 1980 [EEM, USNM]

Indian River County - 1973

Lee County - 1981 [EEM, FSCA]; 1986 [EEM]

Wakulla County - 1981 [FSCA]

Tree Swallow, *Tachycineta bicolor* (Vieillot)*Philopterus major* (Kellogg 1896)

Broward County - 1957 [FSCA]

Dade County - 1917, 1928 [EEM]

Seminole County - 1929 [FSCA]

No specific locality or date given [Peters 1936]

Bank Swallow, *Riparia riparia* (Linnaeus)*Myrsidea latifrons* (Carriker and Shull 1910)

Dade County - 1926 [EEM]

Philopterus sp.

Dade County - 1928 [EEM]

Barn Swallow, *Hirundo rustica* Linnaeus*Myrsidea rustica* (Giebel 1874)

Dade County - 1926 [EEM]

Philopterus microsomaticus Tandan 1955

Dade County - 1926 [EEM]

Corvidae (Jays, Crows)

Blue Jay, *Cyanocitta cristata* (Linnaeus)*Menacanthus eurysternus* (Burmeister 1838)

Highlands County - 1992

Philopterus cristatus Malcomson 1929

Highlands County - 1992-94

Myrsidea sp.

Glades County - 1983

Highlands County - 1994

Scrub Jay, *Aphelocoma coerulescens* (Bosc)*Myrsidea* sp.

Highlands County - 1982 [EEM]; 1992-93

Martin County - 1963 [EEM]

Philopterus sp.

Highlands County - 1994

American Crow, *Corvus brachyrhynchos* Brehm*Myrsidea interrupta* (Osborn 1896)

Highlands County - 1982 [EEM, FSCA]

Osceola County - 1933 [USNM]

Pinellas County - 1929 [USNM]

No specific locality or date given [Peters 1936]

Philopterus ocellatus (Scopoli 1763)

Pinellas County - 1929 [FSCA]

Fish Crow, *Corvus ossifragus* Wilson*Colpocephalum fregili* Denny 1842

Dade County - 1937 [EEM, USNM]

Myrsidea timmermanni timmermanni Klockenhoff 1974

Dade County - 1937 [EEM, USNM]

Indian River County - 1971

Lee County - 1981 [EEM, FSCA]

Pinellas County - 1929-30 [USNM]

Philoptyerus sp.

No specific locality or date given [Peters 1936]

Paridae (Titmice) - No information available.

Sittidae (Nuthatches) - No information available.

Certhiidae (Creepers) - No information available.

Pycnonotidae (Bulbuls) - No information available.

Troglodytidae (Wrens)

Carolina Wren, *Thryothorus ludovicianus* (Latham)

Philoptyerus sp.

No specific locality or date given [Peters 1936]

Muscicapidae (Muscicapids)

Eastern Bluebird, *Sialia sialis* (Linnaeus)

Philoptyerus sialis (Osborn 1896)

No specific locality or date given [Peters 1936]

Ricinus sp.

No specific locality or date given [Peters 1936]

Swainson's Thrush, *Catharus ustulatus* (Nuttall)

Myrsidea incerta (Kellogg 1896)

Indian River County - 1966

Hermit Thrush, *Catharus guttatus* (Pallas)

Brueelia antiqua Ansari 1956

Alachua County - 1994

American Robin, *Turdus migratorius* Linnaeus

Brueelia iliaci (Denny 1842)

Pinellas County - 1935 [USNM]

Philoptyerus sp.

No specific locality or date given [Peters 1936]

Sturnidoecus simplex (Kellogg 1896)

Indian River County - 1972

Pinellas County - 1935 [Peters 1935, USNM, FSCA]

Mimidae (Mockingbirds, Thrashers, Allies)

Gray Catbird, *Dumetella carolinensis* (Linnaeus)

Brueelia brunneinucha Cicchino 1983

Lee County - 1986 [EEM]

Myrsidea sp.

Indian River County - 1967 [EEM]; 1973-74

Northern Mockingbird, *Mimus polyglottos* (Linnaeus)

Brueelia brunneinucha Cicchino 1983

Alachua County - 1954 [EEM, FSAC]; No date given [Williams 1983]

Menacanthus eurysternus (Burmeister 1838)

Indian River County - 1965; 1968 [EEM]

Myrsidea sp.

Alachua County - 1954 [FSAC]

Indian River County - 1965 [EEM]; 1971

Lee County - 1984 [EEM]

Philopterus sp.

Alachua County - 1954 [FSAC]

Brown Thrasher, *Toxostoma rufum* (Linnaeus)*Brueelia dorsale* Williams 1983

Lee County - 1984 [EEM]

Myrsidea sp.

Lee County - 1981 [EEM]

Motacillidae (Pipits) - No information available.

Bombycillidae (Waxwings) - No information available.

Laniidae (Shrikes)

Loggerhead Shrike, *Lanius ludovicianus* Linnaeus*Menacanthus camelinus* (Nitzsch 1874)

No specific locality or date given [Peters 1936]

Philopterus coarctatus (Scopoli 1763)

No specific locality or date given [Peters 1936]

Sturnidae (Starlings)

European Starling, *Sturnus vulgaris* Linnaeus*Menacanthus eurysternus* (Burmeister 1838)

Lee County - 1979 [EEM]

Vireonidae (Vireos)

White-eyed Vireo, *Vireo griseus* (Boddaert)*Menacanthus curuccae* (Schrank 1776)

Leon County - 1962 [EEM]

Philopterus sp.

Leon County - 1959, 1962 [EEM]

Ricinus vireoensis Nelson 1972

Indian River County - 1966 [EEM]

Leon County - 1962 [EEM, FSAC]

Black-whiskered Vireo, *Vireo altiloquus* (Vieillot)*Philopterus* sp.

Collier County - 1955 [FSAC]

Emberizidae (Emberizids)

Blue-winged Warbler, *Vermivora pinus* (Linnaeus)*Ricinus picturatus* (Carriker 1902)

Dade County - 1918 [USNM]

- Nashville Warbler, *Vermivora ruficapilla* (Wilson)
 Ricinus picturatus (Carriker 1902)
 Dade County - 1926 [USNM]
- Yellow Warbler, *Dendroica petechia* (Linnaeus)
 Ricinus dendroicae Nelson 1972
 Dade County - 1917 [USNM]
- Yellow-rumped Warbler, *Dendroica coronata* (Linnaeus)
 Machaerilaemus sp.
 Indian River County - 1972
- Prairie Warbler, *Dendroica discolor* (Vieillot)
 Ricinus dendroicae Nelson 1972
 Leon County - 1958, 1961-62 [EEM]
- Canada Warbler, *Wilsonia canadensis* (Linnaeus)
 Ricinus emersoni Nelson 1972
 Dade County - 1928 [EEM]
- Northern Cardinal, *Cardinalis cardinalis* (Linnaeus)
 Myrsidea sp.
 Alachua County - 1954 [FSCA]
 Indian River County - 1973
- Philopterus* sp.
 No specific locality or date given [Peters 1936]
- Rufous-sided Towhee, *Pipilo erythrophthalmus* (Linnaeus)
 Myrsidea melanorum (Kellogg 1896)
 No specific locality or date given [Peters 1936]
- Bachman's Sparrow, *Aimophila aestivalis* (Lichtenstein)
 Ricinus wolfi Nelson 1972
 No specific locality or date given [Peters 1936]
- Chipping Sparrow, *Spizella passerina* (Bechstein)
 Brueelia sp.
 Alachua County - 1954 [FSCA]
- Vesper Sparrow, *Pooecetes gramineus* (Gmelin)
 Ricinus fringillae de Geer 1778
 Dade County - 1926 [USNM]
- Savannah Sparrow, *Passerculus sandwichensis* (Gmelin)
 Machaerilaemus maestrus (Kellogg and Chapman 1899)
 Indian River County - 1969
 Ricinus diffusus (Kellogg 1896)
 Dade County - 1924, 1929 [USNM]
- Sharp-tailed Sparrow, *Ammodramus caudacutus* (Gmelin)
 Philopterus sp.
 No specific locality or date given [Peters 1936]
- Seaside Sparrow, *Ammodramus maritimus* (Wilson)

Philopterus sp.

Dixie County - 1980 [EEM, USNM]

Taylor County - 1980 [USNM]

Walton County - 1980 [USNM]

No specific locality or date given [Peters 1936]

Ricinus diffusus (Kellogg 1896)

Dade County - 1929 [USNM]

Song Sparrow, *Melospiza melodia* (Wilson)*Ricinus diffusus* (Kellogg 1896)

Dade County - 1930 [USNM]

Red-winged Blackbird, *Agelaius phoeniceus* (Linnaeus)*Brueelia ornatissima* (Giebel 1874)

No specific locality or date given [Peters 1936]

Myrsidea fuscomarginata (Osborn 1896)

Indian River County - 1972-73 [EEM]

Philopterus agelaii (Osborn 1896)

No specific locality or date given [Peters 1936]

Eastern Meadowlark, *Sturnella magna* (Linnaeus)*Brueelia picturata* (Osborn 1896)

Alachua County - 1954 [FSCA]

Indian River County - 1970

Menacanthus sturnellae Price 1977

Alachua County - 1954 [EEM, FSCA, Price 1977]

Philopterus sp.

No specific locality or date given [Peters 1936]

Boat-tailed Grackle, *Quiscalus major* Vieillot*Menacanthus quiscali* Price 1977

No specific locality or date given [Peters 1936]

Myrsidea balteri Clay 1968

Alachua County - 1976 [FSCA]

Duval County - 1975 [EEM]

Indian River County - 1968 [EEM]; 1971

Pinellas County - 1929 [Clay 1968, USNM]

Philopterus sp.

Alachua County - 1976 [FSCA]

Common Grackle, *Quiscalus quiscula* (Linnaeus)*Myrsidea fuscomarginata* (Osborn 1896)

Alachua County - 1954 [Clay 1968, FSCA]

Highlands County - 1993

Indian River County - 1973

Pinellas County - 1929 [Clay 1968]

Philopterus quiscali (Osborn 1896)

No specific locality or date given [Peters 1936]

Fringillidae (Cardueline Finches) - No information available.

Passeridae (Old-World Sparrows) - No information available.

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