

MIGRATION AND WINTERING RECORDS OF KIRTLAND'S WARBLER:

AN ANNOTATED BIBLIOGRAPHY

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Kirtland's Warbler (Dendroica kirtlandii) was first collected sometime during Samuel Cabot's expedition in the fall of 1840 or 1841 at sea between Cuba and Abaco Island, Bahamas. It was not until 13 May 1851, when Charles Pease collected the type specimen, an immature male, near Cleveland, Ohio, that the new bird was identified. Pease gave the specimen to his father-in-law, Dr. Jared P. Kirtland, who in turn sent it to Spencer F. Baird. Baird described the bird and named it for Kirtland, a well-known naturalist of the time (Baird 1864-1872, Griscom and Sprunt 1979).

Based on these and the subsequent few observations, it was believed Kirtland's Warbler wintered in Cuba and returned to the eastern United States to breed, though North American records were concentrated in Ohio (Ulrey 1893). Subsequent winter records defined a range confined to the Bahamas. To date, the relatively few wintering records, save one (Faanes 1985) all come from the Bahamas. No nests were found until 8 July 1903 when Norman A. Wood discovered a breeding colony in Crawford County, Michigan (Wood 1904). Further observations revealed this rare warbler breeds only in jack pines (Pinus banksiana) in a 6-county region in Michigan (Iosco, Crawford, Kalkaska, Ogemaw, Oscoda and Roscommon counties encompass the current known distribution) (Payne 1983). There have been records of males defending territories outside this area, but no evidence of breeding has been found in any other location (Harrington 1939, Tilghman 1979).

The decline of Kirtland's Warbler numbers is well-documented but not well-understood. Recent speculation has considered the possibility of losses of wintering habitat (Keast and Morton 1980) and mortality due to inclement weather conditions encountered during migration (Trautman 1979, Ryel 1981).

In order to evaluate these hypotheses, it is necessary to examine the chronological and geographical distribution of migration and wintering records, and this was the inspiring force behind this bibliography. However, it may also serve as a useful reference for persons interested in avian migration, endangered species, Bahama birds, or ornithological history.

Many of the references noted here are also included in Huber's (1982) comprehensive compilation. This bibliography could not have been completed without referring to that work, and some elements of its format have been incorporated here for the purpose of clarity and consistency. This bibliography contains pre-1980 references not included in Huber (1982) and post-1980 references up to and including 1986. In addition, museum records¹ and unpublished field records have been listed and cross-references with published accounts where possible. Citations are cross-referenced with museum records and other citations describing the same information. Each citation has been assigned a code indicating its reliability. Discrepancies in the published literature often occur between two or more accounts; therefore, only the information given in the text of the citation in question was used in assigning reliability codes, and two similar citations may bear different codes. These are as follows:

(S)--a specimen of Kirtland's Warbler was collected and positively identified

¹Museums likely to contain study skins collected during migration or wintering, based on the published literature, were contacted. This provided a fairly complete coverage; however, some specimens in other collections may have been missed.

(D)--a detailed description is included in the account OR the bird was seen by someone familiar with it OR the record was accepted by an ornithological review committee

(M)--the bird was mist-netted and banded AND/OR photographed

(P)--the bird was possibly a Kirtland's Warbler, but there is some reasonable doubt

(?)--unable to evaluate this record due to lack of information

[]--numbers in brackets indicate the page on which Kirtland's warbler information is actually found.

Where possible, the number of birds, maturity of the bird(s), sex(es), precise date and location and general habit (except Michigan habitats) of each record has been noted. In the absence of this information, the record is transcribed as it appears in the original publication. If no numerical qualification is given, as in "♀ 12 Oct. 1941", one bird may be inferred.

I am indebted to C. A. Faanes, P. Sykes, M. J. Conroy, J. Henshaw, H. F. Mayfield, and M. E. McGhee, for their information and advice. B. Rystrom and S. Anthony also provided invaluable assistance. This work was funded by the Patuxent Wildlife Research Center through a Research Work Order to the Georgia Cooperative Fish and Wildlife Research Unit.

LITERATURE CITED

- Baird, S. F. 1864-1872. Review of American birds in the museum of the Smithsonian Institution, Part I. North and Middle America. Smith. Misc. Coll. No. 181. 449 pp.
- Faanes, C. A. 1985. Memorandum to the director of Patuxent Wildlife Research Center, Laurel, MD: Summary of field work on Kirtland's warbler winter ecology. 7 pp.
- Griscom, L. and A. Sprunt, Jr. 1979. The warblers of America. Rev. by E. M. Reilly, Jr. Doubleday and Co., Inc., Garden City, New York. 356 pp.
- Harrington, P. 1939. Kirtland's Warbler in Ontario. Jack-Pine Warbler. 17(4):95-97.
- Huber, K. R. 1982. The Kirtland's Warbler (Dendroica kirtlandii): an annotated bibliography, 1852-1980. Museum of Zoology, Univ. of Mich., Ann Arbor. 99 pp.
- Keast, A. and E. S. Morton, eds. 1980. Migrant birds in the neotropics: ecology, behavior, distribution and conservation. Smith. Inst. Press, Washington, D.C.
- Payne, R. B. 1983. A distributional checklist of the birds of Michigan. Misc. Pub., Mus. of Zoo., Univ. of Mich. No. 164. 71 pp.
- Ryel, L. 1981. Population change in the Kirtland's Warbler. Jack-Pine Warbler. 59:76-91.
- Tilghman, N. G. 1979. The search for the Kirtland's Warbler in Wisconsin. Pass. Pigeon. 41(1):16-24.
- Trautman, M. B. 1979. Experiences and thoughts relative to the Kirtland's Warbler. Jack-Pine Warbler. 57(3):135-140.
- Ulrey, A. B. 1893. On the occurrence of Kirtland's Warbler (Dendroica kirtlandii Baird) in Indiana. Proc. Ind. Acad. of Sci. 1893:224-225.
- Wood, N. A. 1904. Discovery of the breeding area of Kirtland's Warbler. Bull. Mich. Ornith. Club. 5:3-13.

ALABAMA

1. Saunders, A. A. 1908. Some birds of Central Alabama. Auk. 25(4):413-424. [422].

One bird (sex unspecified) 10 May 1908 at Woodbine, Coosa County, Alabama (P). (2,6,7)

2. Howell, A. H. 1924. Birds of Alabama. AL Dept. of Game and Fish. in coop. with the U.S.D.A. Bureau of Bio. Surv. Montgomery. 384 pp. [305-306]

One bird (sex unspecified) 10 May 1908 at Woodbine, Coosa Co., Alabama (P). (1,6,7)

3. Imhof, T. A. 1954. When do the birds occur at Birmingham. Ala. Birdlife. 2(3-4):25-32. [31].

Kirtland's Warbler is described as casual spring transient. One bird (sex unspecified) 7 May 1936 at the Municipal Airport, Birmingham, Jefferson Co., Alabama (?).

4. Imhof, T. A. 1956. Present status of the Alabama bird list. Ala. Birdlife. 4(3-4):24-26. [26].

Kirtland's Warbler is described as hypothetical in Alabama.

5. James, D. 1968. Regional reports, the Fall migration, August 16 to November 30, 1967, Central Southern region. Aud. Field Notes. 22(1):50-54. [53].

One bird (sex unspecified) 5 Oct 1966 at Jacksonville, Calhoun Co., Alabama (P).

6. Anon. 1971. Official list of the birds of Alabama. Ala. Birdlife. 19(1):7-14. [13]. (probably by T. Imhof).

Kirtland's Warbler is described as hypothetical in Alabama. Three birds 7 May, 10 May, and 5 Oct (no specific information). (3,1,2,5)

7. Imhof, T. A. 1976. Alabama birds, 2nd ed. Univ. of AL Press. University. 445 pp. [355-356]. (1st ed. 1962).

Kirtland's Warbler is described as casual on migration in Alabama. ♀ 7 May 1936 at Birmingham, Jefferson Co., Alabama (?); 1 bird (sex unspecified) 5 Oct 1966 at Jacksonville, Calhoun Co., Alabama (?); 1 bird (sex unspecified) 10 May 1908 at Woodbine, Coosa County, Alabama (?). (3,5,1,2)

CANADA

8. Samuel, I. H. 1900. List of the rarer birds met with during the spring of 1900 in the immediate vicinity of Toronto. Auk. 17(4):391-392. [391].

- ♂ 16 May 1900 near Toronto, Ontario, Canada (S). (9,10,11,12,13,14)
9. Anon. (Martin, J. W.). 1901. Two warblers new to Canada. *Petrel*. 1(1):9.
- ♂ 16 May 1900 near Toronto, Ontario, Canada (S). (8,10,11,12,13,14)
10. Kells, W. L. 1901. Two warblers new to Canada. *Ottawa Nat.* 14(12):230-234. [230-232].
- ♂ 16 May 1900 near Toronto, Ontario, Canada (S); adult ♂ 11 May 1883 at Battle Creek, Michigan (S; originally identified as a Pine Warbler, (*Dendroica pinus*)). (8,9,11,12,13,14,74,75,78,95, USNM)
11. Macoun, J. 1904. Catalogue of Canadian birds, part 3. Geological survey of Canada, Pub. No. 692. 733 pp. [622-623].
- One bird (sex unspecified) 16 May 1900 at 5:30 a.m. in clump of tall willows (location unspecified) (?). (8,9,10,13,13,14)
12. Saunders, W. E. 1906. Birds new to Ontario. *Ottawa Nat.* 19(11):205-207. [206].
- One bird (sex unspecified) 16 May 1900 at Toronto, York Co. Ontario, Canada (S). (8,9,10,11,13,14)
13. Macoun, J., and J. M. Macoun. 1909. Catalogue of Canadian birds. Can. Dept. of Mines Geo. Survey Branch. Govt. Printing Bureau. Ottawa, Ontario. 761 pp. [652-653].
- ♂ 16 May 1900 in a cluster of tall willow trees (location unspecified) (D). (8,9,10,11,12,14)
14. Harrington, P. 1939. Kirtland's Warbler in Ontario. *Jack-Pine Warbler*. 17(4):95-97.
- ♀s (number unspecified) between 24 May and 12 Jul 1916 in jack pines near Pembroke, Ontario, Canada (D); ♂ 5 Jun 1939 at this same location (D); ♂ 16 May 1900 at Toronto, York Co., Ontario, Canada (S); immature ♂ 2 Oct 1915 at Point Pelee, Essex Co., Ontario, Canada (S). (8,9,10,11,12,13)
15. Baillie, J. L. 1953. Regional reports, spring migration April 1 to May 31, 1953, Ontario-Western New York Region. *Aud. Field Notes*. 7(4):270-272. [271].
- One bird (sex unspecified) 10 May 1953 at Point Pelee, Essex Co., Ontario (D). (22)
16. Gunn, W. W. H. 1958. Regional reports, the spring migration, April 1 to May 31, 1958, Ontario-Western New York. *Aud. Field Notes*. 12(4):348-352. [351].
- One bird (sex unspecified) 16 May 1958 at Toronto, York Co., Ontario, Canada (P).

17. Gunn, W. W. H. 1958. Regional reports, the nesting season June 1 to August 15, 1958, Ontario-Western New York. Aud. Field Notes. 12(5):408-410. [410].

♂ 8-30 Jun 1958 near McVicar, Bruce Co., Ontario, Canada (D).

18. Woodford, J. 1959. Migrant Kirtland's Warbler mist-netted. Bird-Banding. 30:234.

Male 10 May 1959 in scrub willow in an open, sandy area near a marsh at Point Pelee National Park, Essex Co., Ontario, Canada (M). (22)

19. Goodwin, C. E. 1963. Worth noting. Ont. Nat. 1(3):23-26. [25-26].

One bird (sex unspecified) 1 Jun 1963 at Eastbourne, York Co., Ontario, Canada (?).

20. Godfrey, W. E. 1966. The birds of Canada. Nat. Mus. of Canada Bull. No. 203. 438 pp. [339, pl. 56]. (also cited as Biol. Series 73).

Kirtland's Warbler is described as breeding in central Michigan and wintering in the Bahamas, and a rare migrant in Ontario (records from Toronto, Point Pelee, Hamilton, Pointe au Baril, no further specific information).

21. Sprague, T. 1969. Birds of Prince Edward County. Picton Gazette Pub. Co., Ltd. Picton, Ontario, Canada. 215 pp. [166-167].

Kirtland's Warbler is described as hypothetical. One bird (sex unspecified) 19 May 1962 at the edge of a small swamp at Point Traverse, Prince Edward Co., Ontario, Canada (P). The author generally discusses other Ontario sightings: Toronto, York Co.; Point Pelee, Essex Co.; Hamilton, Wentworth Co., Ontario; Point au Baril Perry Sound Co., Ontario. 1 bird (sex unspecified) 12 May 1964 at Cataraqui Cemetery, Kingston, Ontario, (P).

22. Stirrett, G. M. 1973. The spring birds of Point Pelee National Park Ontario. Can. Nat. Parks Serv. 28 pp. [24].

One bird (sex unspecified) 10 May 1953 (?), 1 bird (sex unspecified) 10 May 1959 (?), 1 bird (sex unspecified) 13 May 1963 (?), all in Point Pelee National Park, Essex Co., Ontario, Canada. (15,18)

23. James, R. D., P. L. McLaren, and J. C. Barlow. 1976 (reprinted 1977). Annotated checklist of the birds of Ontario. Life Sci. Misc. Pub., R. Ont. Mus. 75 pp. [45].

Kirtland's Warbler is described as a former summer resident, now a very rare migrant. Over 15 records are mentioned without specific information (3 S, >12 ?). In province 10 May-12 July and 9 Aug-2 Oct.

24. Anon. 1978. Kirtland's Warbler protected in Ontario. *Can. Field Natur.* 92(2):203.

One bird (sex, precise date and location unspecified) summer 1977 in Ontario.

25. Chamberlain, D. and G. McKeating. 1978. The 1978 Kirtland's Warbler survey in Ontario. *Ont. Ministry of Nat. Res.* 24 pp.

♂ 2 June 1978 at Camp Petawawa, Ontario, Canada (D); ♂ 27 May 1978 N of Ottawa near the Gatineau R. (D).

26. Kelley, A. H. 1983. Birds of S.E. Michigan and S.W. Ontario, notes on years 1975-1981. *Jack-Pine Warbler.* 61(1):3-12. [11].

Kirtland's Warbler is described as a rare or accidental species, occurring 14-19 May 1979 at Point Pelee, Ontario, Canada (number and sex[es] of bird[s], unspecified). (?).

FLORIDA

27. Cory, C. B. 1898. Kirtland's Warbler (*Dendroica kirtlandi*) in Florida. *Auk.* 15(4):331.

One bird (sex unspecified) 19 Apr 1897 (D) and 27 Apr 1897 (S) at West Jupiter, Palm Beach Co., Florida. (31,34,40)

28. Ellis, J. B. 1915. Migratory notes taken fall 1915 by J. B. Ellis, Chokoloskee, Lee Co., Fla. *Oologist.*

One bird (sex unspecified) 11 Oct 1915 at Chokoloskee, Florida (?). (31,34)

29. Schroder, H. H. 1923. Notes from Fort Pierce. *Bird-Lore.* 25(2):122-123. [122].

One bird (sex unspecified) 1 Nov 1918 at Fort Pierce, St. Lucie Co., Florida. (P). (31,34)

30. Bailey, H. H. 1925. The birds of Florida. The Williams and Wilkins Co. Baltimore, Maryland. 146 pp. [128, pl. 70].

Kirtland's Warbler is described as an extremely rare migrant in October and late (19th and 27th) April.

31. Howell, A. H. 1932. Florida bird life. Coward-McCann, New York. pub. in coop. with the Fla. Dept. of Game and Freshwater Fish and the U.S.D.A. Bureau of Biol. Surv. 579 pp. [406-407].

Two different birds (sexes unspecified) 19 and 27 Apr 1897 at West Jupiter, Palm Beach Co., Florida (S and D); one bird (sex

unspecified) 1 Nov 1918 at Fort Pierce, St. Lucie Co., Florida (?); one bird (sex unspecified) 11 Oct 1915 at Chokoloskee, Lee Co., Florida (?); one bird (sex unspecified) 25 Oct 1915 at Princeton, Dade Co., Florida (?). (27,29,28,34)

32. McClanahan, R. C. 1935. Fifty years after. Fla. Nat. 8(4); 53-59. [56]. (O.S. 14(4)).

One bird (sex unspecified) 26 Apr 1934 near Gainesville, Alachua Co., Florida (?). (33,34)

33. McClanahan, R. C. 1936. Annotated list of the birds of Alachua County, Florida. Proc. of the Fla. Acad. of Sci. for 1936, pp. 91-102. [100].

Kirtland's Warbler is classified as a rare migrant. One bird (sex unspecified) 26 Apr 1934 at Bivan's Arm, Alachua Co., Florida (?). (32)

34. Sprunt, A., Jr. 1954. Florida bird life. Coward-McCann, Inc. New York and the National Audubon Society. 527 pp. [407-408].

Kirtland's Warbler is classified as a very rare migrant or even accidental in Spring or Fall. Two birds (sexes unspecified) 19 and 27 Apr 1897 at West Jupiter, Palm Beach Co., Florida (S,D); one bird (sex unspecified) 1 Nov 1918 at Fort Pierce, St. Lucie Co., Florida(?); one bird (sex unspecified) 11 Oct 1915 at Chokoloskee, Lee Co., Florida (?); one bird (sex unspecified) 25 Oct 1915 at Princeton, Dade Co., Florida (?); one bird (sex unspecified) in 1918; one bird (sex unspecified) 26 Apr 1934 at Gainesville, Alachua Co., Fla (?). (27,31,40,29,28,32)

35. Stevenson, H. M. 1959. Regional reports: the fall migration, August 16 to November 30, 1958, Florida region. Aud. Field Notes. 13(1):21-25. [24].

One bird (sex unspecified) 21 Sept 1958 at Miami, Dade Co., Florida (D). (27,34,40)

36. Mason, C. R. 1960. Heretofore unpublished records of the Kirtland's Warbler (Dendroica kirtlandii). Fla. Nat. 33(4):223.

One bird (sex unspecified) 13 Oct 1935 near Salt Run, Anastasia Island, St. John's Co., Florida (S); ♀ early May of 1930 or 1931 on the road to Sawpit Creek, Florida (S, specimen discarded).

37. Stevenson, H. M. 1962. Regional reports: the fall migration, August 16 to November 30, 1961, Florida region. Aud. Field Notes. 16(1):21-25. [24].

One bird (sex unspecified) 2 and 3 Nov 1961 at West Palm Beach, Palm Beach Co., Florida (D). (40)

38. Edscorn, J. 1979. Florida birds. Fla. Nat. 52(1):27.

One bird (sex unspecified) 27 Oct. 1978 at Jonathan Dickinson Park, Martin Co., Florida (D). (40)

39. Mott, P. R. 1982. Florida birds. Fla. Nat. 56(3):15.

♂ Apr 1982 at Hypoluxo Island, Palm Beach Co., Florida (?). (40)

40. Langridge, H. P., and G. Hunter. 1984. Kirtland's Warbler sighting in Palm Beach County, Florida. Fla. Field Nat. 12(1):9-10.

One bird (sex unspecified) 29 Apr 1982 in a residential area with vestiges of tropical hammock on Hypoluxo Island, Palm Beach Co., Florida (D); 1 bird (sex unspecified) 19 Apr. 1897 at West Jupiter, Palm Beach Co., Florida (D); 1 bird (sex unspecified) 27 Apr 1897 at West Jupiter (S); 1 bird (sex unspecified) 1 May 1933 in Duval Co., Florida (s); 1 bird (sex unspecified) 26 Apr 1934 at Gainesville, Alachua Co., Florida (?); 1 bird (sex unspecified) 12 Apr 1970 at Gainesville (?); 1 bird (sex unspecified) 9 Sep 1919 in Wakulla Co., Florida (D); 1 bird (sex unspecified) 21 Sep 1958, Dade Co., Florida (D); 1 bird (sex unspecified) 2, 3 Nov 1961 in Palm Beach Co., Florida (D); 1 bird (sex unspecified) 27 Oct 1978 in Martin Co., Florida (?). The author generally describes the possible migration route. (39,27,31,34,35,37,40)

GEORGIA

41. Helme, A. H. 1904. The Ipswich Sparrow, Kirtland's Warbler, and Sprague's Pipit in Georgia. Auk. 21(2):291.

♀ 12 Apr 1902 in water oaks (Quercus nigra) on Cumberland Island, Camden Co., Georgia (S). (42,43,44,46,USNM)

42. Sprunt, A., Jr. 1936. Some observations on the bird life of Cumberland Island, Georgia. Oriole. 1(1):1-6. [2-3].

♀ 12 Apr 1902 (S); ♀ 14 Apr 1903 (S); and ♂ 27 Apr 1904 (?), all on Cumberland Island, Camden Co., Georgia. (41,43,44,46,USNM)

43. Greene, E. R., W. W. Griffin, E. P. Odum, H. L. Stoddard, and I. R. Tomkins. 1945. Birds of Georgia. Georgia Ornith. Soc. Occ. Pub. No. 2. Univ. of Georgia, Athens Press: 111 pp. [60].

Kirtland's Warbler is described as an extremely rare migrant.
♀ 12 Apr 1902 on Cumberland Island, Camden Co., Georgia (S); ♀ 14 Apr 1903 on Cumberland Island (S); one bird (sex unspecified) 16 Apr 1902 in Camden County, Georgia (S); one bird (sex and date unspecified) in St. Mary's, Camden Co., Georgia (S). (41,42,44,46,USNM)

44. Burleigh, T. D. 1958. Georgia birds. Univ. of Oklahoma Press. Norman. 746 pp. [538-539].

Kirtland's Warbler is described as a "rare transient" on the coast.
♀ 12 Apr 1902 on Cumberland Island, Camden, Co., Georgia (S); ♀ 14 Apr 1903 on Cumberland Island (S); ♂ 27 Apr 1904 on Cumberland Island (S); 1 bird (sex unspecified) 16 Apr 1902 at St. Mary's, Camden Co., Georgia (S); 1 bird (sex unspecified) 27 Aug 1909 Savannah, Chatham Co., Georgia (?). (41,42,43,46,USNM)

45. Paget, J. M. 1983. Two recent Georgia sightings of the Kirtland's Warbler. Oriole. 48 (2/3):42.

Immature ♀ 17 Oct 1975 in thick brush on Jekyll Island, Glynn Co., Georgia (?); 1 bird (sex unspecified) 7 Sep 1981 near ponds at Pendergrass, Jackson County, Georgia (D).

46. Haney, J. C., P. Brisse, D. R. Jacobson, M. W. Oberle, J. M. Paget. 1986. Annotated checklist of Georgia birds. Georgia Ornith. Soc. Occ. Pub. No. 10. in press.

Describes former status as "probably rare" transient spring and fall (12 Apr (1902)-12 May (1969)) (27 Aug (1909)-19 Sep (1959))] on coast. New status is "accidental." One bird (sex unspecified) 12 May 1969 at Athens, Clarke Co., Georgia (?); 1 bird (sex unspecified) 17 Oct 1975 on Jekyll Island, Glynn Co., Georgia (?); 1 bird (sex unspecified) 7 Sep 1981 at Pendergrass, Jackson Co., Georgia (?). (41,42,43,44,45,USNM)

ILLINOIS

47. Gault, B. T. 1894. Kirtland's Warbler in Northeastern Illinois. Auk. 11(3):258.

Adult ♂ 7 May 1894 in hazel bushes at Glen Ellyn, Du Page Co., Illinois (S). (53,54)

48. Chapman, F. M. 1895. Bulletins 4 and 5 of the Wilson Ornithological Chapter. Auk 12(3):286-287. [286].

Reports that Bulletin no. 4 records a Kirtland's Warbler (sex unspecified) 25 May 1894 in Winnebago County, Illinois (?). (49,53)

49. Jones, L. 1895. Records of the work of the Wilson Chapter for 1893 and 1894 on the Mniotiltidae. O.S. 7, N.S. 2, nos. 4 and 5: 1-21. [14,20].

One bird (sex unspecified) 25 May 1894 in Winnebago County, Illinois (S). (53,USNM)

50. Blackwelder, E. 1899. A note on Kirtland's Warbler (Dendroica kirtlandi). Auk. 16(4):359-360.

♀ 21-22 May 1899 at Morgan Park in Chicago, Cook Co., Illinois (S). (53,USNM)

51. Moyer, L. B. 1908. Song of Kirtland's Warbler. Bird-Lore. 10(6):264.

♂ 16 May 1908 at La Grange, Cook Co., Illinois (D).

52. Ridgway, R. 1914. Bird life in Southern Illinois. Bird-Lore. 16(6):409-420. [418].

Adult ♂ 3 May 1908 on the author's property in S Illinois (D).

53. Smith, H. R., and P. W. Parmalee. 1955. A distributional check list of the birds of Illinois. Ill. Dept. of Regist. and Educ. and the Ill. St. Mus. Springfield, Ill. 62 pp. [49]. (also cited: Ill. St. Mus. Pop. Sci. Series 4:1-62).

Kirtland's Warbler is described as accidental. One bird (sex unspecified) 7 May 1894 at Glen Ellyn, Du Page County, Illinois (S); 1 bird (sex unspecified) 21 May 1899 at Chicago, Cook Co., Illinois (S); 1--?--bird (sex unspecified) 25 May 1894 in Winnebago County, Illinois (D); 2 ♂s 2 Sep 1948 at Loves Park, Winnebago County, Illinois (D). (47,50,48,49,USNM)

54. Ford, E. R. 1956. Birds of the Chicago region. Spec. Pub. no. 12 of the Chicago Acad. of Sci. 117 pp. [77].

Kirtland's Warbler is described as a very rare migrant. One bird 7 May 1894 in Du Page County, Illinois (S); 1 bird 18 May 1934 in Jackson Park, Chicago, Cook Co., Illinois (?); 6 birds 12 May 1947 at Salt Creek, near LaGrange, Cook Co., Illinois (?). (47)

55. Peterson, P. C., Jr. 1968. Regional report: the fall migration August 16 to November 30, 1967, Middlewestern Prairie region. Aud. Field Notes. 22(5):612-614. [613].

One bird (sex unspecified) 4 and 5 Sep 1966 at Chicago, Cook Co., Illinois (D).

INDIANA

56. Ulrey, A. B. 1893. On the occurrence of Kirtland's Warbler (Dendroica kirtlandi Baird) in Indiana. Proc. Ind. Acad. of Sci. 1893:224-225.

One bird (sex unspecified) 4 May 1893 at Wabash, Wabash Co., Indiana (S). Early belief that Kirtland's Warbler winters in Cuba and breeds in the E United States of America is described. (possibly 59, and 60, USMN)

57. Butler, A. W. 1895. Additional notes on Indiana birds. Proc. Ind. Acad. of Sci. 1895:162-168. [168].

♂ 7 May 1895 near Wabash, Wabash Co., Indiana (S). (58,59,60)

58. Ulrey, A. B. 1895. Contributions to the biological survey of Wabash County. Proc. of the Ind. Acad. of Sci. 1895:147-148. [147].

One bird (sex unspecified) sometime in May 1895 at Wabash, Wabash Co., Indiana (S). (57,59,60)

59. Ulrey, A. B. and W. O. Wallace. 1895. Birds of Wabash County. Proc. Ind. Acad. of Sci. 1895: 148-159. [148,157].

One bird (sex unspecified) 4 May 1892 in a thicket in Wabash County, Indiana (S); ♂ 7 May 1895 in a plum thicket in Wabash County (S). (possibly 56,60,57,58)

60. Butler, A. W. 1897. The birds of Indiana. Ind. Dept. of Geo. and Nat. Res. Ann. Rep. 22:515-1187. [1070-1072].
- One bird (sex unspecified) 4 May 1892 at Wabash, Wabash Co., Indiana (S); 1 bird (sex unspecified) ♂ 7 May 1895 probably at Wabash (S). (possibly 56,59,57,58)
61. Dennis, D. W. 1905. Capture of the Kirtland Warbler near Richmond, Indiana. Auk. 22(3):314.
- ♀ 13 May 1905 in a clump of low bushes 6 mi E of Richmond, Wayne Co., Indiana (S). (62,63)
62. Dennis, D. W. and L. C. Petry. 1905. A specimen of Kirtland's Warbler, secured May 13, 1905. Proc. of the Ind. Acad. of Sci., 1905. 197 pp.
- ♀ 13 May 1905 in a 2nd growth thicket 5 mi. E. of New Paris, Ohio in Wayne Co., Indiana (S). (61,63)
63. Petry, L. C. 1909. Records of Kirtland's Warbler. Bird-Lore. 11(4):177.
- ♀ 18 May 1908 at Richmond, Wayne Co., Indiana (?); ♂ 14 May 1909 at Urbana, Champaign Co., Ohio (D); 1 bird (sex unspecified) 13 May 1905 at New Paris, Preble Co., Ohio; 1 bird (sex unspecified) 7 May 1906 at Richmond, Wayne Co., Indiana (?). (61,63)
64. Brock, K. J. 1982. Kirtland's Warbler, a rara avis extraordinaire, occurs in Indiana. Ind. Aud. Quarterly 60(2):30-33.
- ♀ 17 May 1981 at Chesterton, Porter Co., Indiana (S).

IOWA

65. Dinsmore, J. J., T. H. Kent, D. Koenig, P. C. Peterson, and D. M. Roosa. 1984 Iowa birds. Iowa St. Univ. Press. Ames. 356 pp. [265].
- One bird (sex and date unspecified) at Linn County, Iowa (P); 1 bird (sex unspecified) 10 May 1979 (?), and 1 bird (sex unspecified) 26 Sep 1978 (?); at Chicago, Cook Co., Illinois; 1 bird (sex unspecified) 1967 at Green Bay, Door Co., Wisconsin (?); 1 bird (sex unspecified) 10 Jun to 18 Jul 1978 at Black River Falls, Jackson Co., Wisconsin (?).

MASSACHUSETTS

66. Sherman, J. W. 1917. Kirtland Warbler in Massachusetts. Records of walks and talks with nature. 10:8.
- Immature ♂ 26 May 1916 low in bushes and on ground at Roslindale, Suffolk Co., Massachusetts (D). (67,68,69)

67. Forbush, E. H. 1925-1929. Birds of Massachusetts and other New England States. Norwood Press. Norwood, MA. 3 vol. 3:267.

♂ 26 May 1916 at Roslindale, Suffolk Co., Massachusetts (P).
(66,68,69)

68. Bagg, A. C., and S. A. Eliot, Jr. 1937. Birds of the Connecticut Valley in Massachusetts. The Hampshire Bookshop. Northampton, Massachusetts. 567 pp.

Kirtland's Warbler is described as a possible visitor at this location. One bird (sex unspecified) 26 May 1916 at Roslindale, Suffolk Co., Massachusetts (D). Breeding and wintering ranges are generally discussed. (66,67,69)

69. Bailey, W. 1955. Birds in Massachusetts. The College Press. Lancaster, Mass. 234 pp. [188-189].

One bird (sex unspecified) 26 May 1916 at Roslindale, Suffolk Co., Massachusetts (P), (66,67,68)

MEXICO

70. Lane, J. 1975. Kirtland's Warbler in Mexico. Am. Birds. 29(1):144.

Adult ♂ and another, immature ♂ or a ♀ Kirtland's Warbler
11 November 1974 inland from dunes in thick brush about 20 mi S of
Veracruz, Mexico, along road to Lazario (D).

MICHIGAN

71. Covert, A. B. 1876. Birds of lower Michigan. Forest and Stream. 6(9):132.

Kirtland's Warbler is described as very rare. ♂ 15 May 1875 at
Ann Arbor, Washtenaw Co., Michigan (D). (73,75,80,95,USNM)

72. Coues, E. 1880. Description of the female Dendroeca kirtlandi. Bull. of the Nuttall Ornith. Club. 5(1):49-50.

♀ 16 May 1879 at Ann Arbor, Washtenaw Co., Michigan (S).
(73,75,80,95,USNM)

73. Covert, A. B. 1881. Natural history. pages 173-194 in History of Washtenaw County, Michigan. C. C. Chapman and Co., Chicago, IL. 1452 pp. [177].

One bird (sex unspecified) 15 May 1875 at Scio, Washtenaw Co.,
Michigan (S); 1 bird (sex unspecified) 16 May 1879 at Scio (S).
(71,72,75,80,95,USNM)

74. Ridgway, R. 1884. Another Kirtland's Warbler from Michigan. Auk. 1(3):389.

Adult ♂ 11 May 1883 at Battle Creek, Calhoun Co., Michigan (S), originally mislabeled as a Pine Warbler (Dendroica pinus). (10,75,78,95,117,USNM)

75. Gibbs, M. 1885. The birds of Michigan. Forest and Stream. 25(1):4-5. [5].
- Kirtland's Warbler is described as a rare irregular straggler in the southern counties. 1 bird (sex unspecified) 15 May 1875 at Scio, Washtenaw Co., Michigan (D); 1 bird (sex unspecified) 16 May 1879 at Scio, Washtenaw Co., Michigan (D); 1 bird (sex unspecified) 11 May 1883 at Battle Creek, Calhoun Co., Michigan (D). (71,73,80,95,74,10,78,95,117,USNM)
76. Merriam, C. H. 1885. Kirtland's Warbler from the Straits of Mackinac. Auk. 2(4):376.
- ♂ 21 May 1885 at the lighthouse on Spectacle Reef, Mackinac Co., Michigan (S). (95?)
77. Washburn, F. L. 1889. Recent capture of Kirtland's Warbler in Michigan, and other notes. Auk. 6(3):279-280. [279].
- ♀ last of April on first of May 1888 at Ann Arbor, Washtenaw Co., Michigan (S). (78,95?)
78. Cook, A. J. 1893. Birds of Michigan. Mich. Ag. Expt. Sta. St. Agric. College. Bull. No. 94. 148 pp. [115].
- One bird (sex unspecified) 11 May 1883 at Battle Creek, Calhoun Co., Michigan (D); 1 bird (sex unspecified) May 1888 at Ann Arbor, Washtenaw Co., Michigan (D); 1 bird (sex and date unspecified) at Straits of Mackinaw (sic), Mackinac Co., Michigan (D); 2 birds (sexes and dates unspecified) 1879 in Washtenaw County, Michigan (D); 1 bird (sex unspecified) at Straits of Mackinac (D). (10,75,95,117,77,USNM)
79. Wood, N. A. 1902. Capture of Kirtland's Warbler at Ann Arbor, Michigan. Auk. 19(3):291.
- ♀ 14 May 1902 near the city limits of Ann Arbor, Washtenaw Co., Michigan (S). (95)
80. Wood, N. A. 1906. Twenty-five years of bird migration at Ann Arbor, Michigan. Mich. Acad. of Sci. Rep. 8:151-156 [156,table].
- Birds (number and sexes unspecified) 14 May (S), 15 May 1875 (S), 16 May 1879 (S), 18 May (S), 6 May 1905 (?) at Ann Arbor, Michigan. (71,73,75,95,72,USNM)
81. Tinker, A. D. 1908. Notes on Kirtland's Warbler at Ann Arbor, Mich. Bird-Lore 10(2):81-82.
- One bird (sex unspecified) 13 May 1907 at Ann Arbor, Washtenaw Co., Michigan (D); 1 bird (sex unspecified) 16 May 1907 near the Huron River, Ann Arbor (D). (84,83,95)

82. Wood, J. C. 1908. The Kirtland and Pine Warblers in Wayne Co., Michigan. Auk. 25(4):480.

One bird (sex unspecified) 30 May 1907 in Wayne County, Michigan (D).

83. Wood, N. A. 1908. Notes on the spring migration (1907) at Ann Arbor, Michigan. Auk. 25(1):10-15. [12].

Earliest record 13 May, latest record 16 May (no further information specified). (81,84,95)

84. Tinker, A. D. 1910. The birds of School Girl's Glen, Ann Arbor, Michigan: a study in local ornithology. Mich. Geol. and Biol. Surv. Pub. no. 1 (also cited as Biol. Ser. 1). 35-66. [44,61].

Kirtland's Warbler is described as a very rare transient visitant. One bird (sex unspecified) 13 May 1907 (P) and 1 bird (sex unspecified) 16 May 1907 (P), both in the area of School Girl's Glen, Ann Arbor, Washtenaw Co., Michigan. (81,83,95)

85. Wood, N. A. 1912. Notes on Michigan birds. Mich. Acad. of Sci. Rep. 14:159-162 [160].

One bird (sex unspecified) 10 May 1911 at Ann Arbor, Washtenaw Co., Michigan (?).

86. Ford, E. R. 1931. Note on Kirtland's Warbler. Auk. 48(2):276.

Two ♂ 2 June 1930 in the Au Sable River district in Michigan (D). No nest found.

87. Twomey, A. C. 1936. Climographic studies of certain introduced and migratory birds. Ecology. 17(1):122-132. [127,131].

Kirtland's Warbler is described as breeding in three counties of Michigan (Oscoda, Crawford, and Roscommon) and wintering in the Bahamas as far south as the Caicos Islands. The two areas are compared climographically in this paper.

88. Gross, M. E. 1938. Kirtland Warbler on migration. Jack-Pine Warbler. 16(3):28-29.

Three birds (sexes unspecified) 22 May 1938 at Ottawa Park, near Holland, Ottawa Co., Michigan (D). (115)

89. Van Tyne, J. 1938. Check list of the birds of Michigan. Occ. Paper no. 379 of the Museum of Zoology, Univ. of Michigan, Ann Arbor. 43 pp. [34].

Describes a (summer? date unspecified) record north of the breeding range at Spectacle Reef Lighthouse, NE of Cheboygan, Michigan, in 1885 (sex unspecified). (95)

90. Van Tyne, J. 1939. Kirtland's Warbler at Kalamazoo, Michigan. Auk. 56(4):480-481.
- ♀ 15 May 1886 at Kalamazoo, Michigan (S). This record was not included in the summary by Chapman (1898). The author discusses the history of this specimen and errors associated with its reporting. (95)
91. Peterson, Mrs. T. 1941. Getting one's share of Michigan warblers. Jack-Pine Warbler. 19(2):49-58. [49,52].
- First 1931 sighting 16 June, last 17 June. First 1932 sighting 28 May. First 1933 sighting 26 May. First 1935 sighting 2 June, last 2 June. First 1937 sighting 25 May. First 1938 sighting 28 May. First 1940 sighting 1 June, last 1 June. All sightings from breeding grounds.
92. Wallace, G. J. 1946. Seasonal records of Michigan birds...fall. Jack-Pine Warbler. 24(1):23-37. [33].
- One bird (sex unspecified) 31 Aug 1946 at Imlay City, Lapeer Co., Michigan (D).
93. Wallace, G. J. 1946. Seasonal records of Michigan birds--Spring. Jack-Pine Warbler. 24(4):154-167. [155].
- Birds (sex and number unspecified) 30 May - 2 Jun 1946 at Higgins Lake, Michigan (D). (100)
94. Black, C. T. 1949. Seasonal records of Michigan birds-Spring migration, 1949. Jack-Pine Warbler. 27(3):111-127. [124].
- Arrival on nesting grounds noted: 2 ♂ 8 May 1949 at Kalkaska County (D); reports also from Oscoda and Crawford counties (sexes and dates unspecified).
95. Wood, N. A. 1951. The birds of Michigan. Misc. Pub. no. 75 Mus. Zool. Univ. of Michigan. Univ. of Michigan Press, Ann Arbor. 559 pp. [402-403].
- ♀ 15 May 1875 near Scio, Washtenaw Co., Michigan (S); ♀ 16 May 1879 near Scio (S); ♂ 18 May 1888 in area of Ann Arbor, Washtenaw Co., Michigan (S); ♀ 14 May 1902 in area of Ann Arbor (S); ♂ 13 and 16 May 1907 near Ann Arbor (D); ♂ 9 May 1916 near Ann Arbor (?); ♂ 6 May 1905 at Ann Arbor (?); 1 bird 10 May 1911 near Ann Arbor (D); 1 bird 21 May 1915 near Ann Arbor (?); ♂ 11 May 1883 at Battle Creek, Calhoun Co., Michigan (S); ♀ 15 May 1886 at Kalamazoo Co., Michigan (S); ♀ 21 May 1926 at Fish Point, Tuscola Co., Michigan (S); ♂ 21 May 1885 at Spectacle Reef Lighthouse, Mackinac Co., Michigan (S); ♂s (number unspecified) 20 Aug 1933 at Red Oak, Oscoda Co, Michigan (S); ♂s (number unspecified) 1 Sep 1930 SE of Lovells, Crawford Co., Michigan (S); ♂s (number unspecified) 26 Aug 1933 SE of Lovells (S); several birds (sexes and number unspecified) early Sep 1915 and 1916 near Luzerne, Oscoda Co., Michigan (S); ♂ 9 Sep 1916 near Luzerne (S); ♂ 28 Sep 1919 7 mi S of Houghton Lake Village,

Roscommon Co., Michigan (S). (71,7273,74,75,76,77,78,79,80,81,83,84,85,89,90,USNM)

96. Whelan, M. E. 1952. A fall Kirtland's Warbler observation. Jack-Pine Warbler. 30(1):25.
- One bird (sex unspecified) 29 Sep 1951 at Muskegon, Michigan (D). Discusses breeding range as described in Wood (1951).
97. Wickstrom, G. 1952. Seasonal records of Michigan birds , fall 1951. Jack-Pine Warbler . 30(1):7-24. [17].
- One bird (sex unspecified) 29 Sep 1951 at Muskegon, Muskegon Co., Michigan (?). (96)
98. Wickstrom, G. 1952. Seasonal records of Michigan birds Spring 1952. Jack-Pine Warbler. 30(3):79-82. [90].
- Five birds (sexes unspecified) 17 May 1952 in Oscoda County, Michigan (?); 3 birds (sexes unspecified) 21 May 1952 in Iosco County, Michigan (D); 8 birds (sexes unspecified) 24 May 1952 in Oscoda County (?); 2 birds (sexes unspecified) 31 May 1952 at Onaway, Michigan (?).
99. Wickstrom, G. 1953. Seasonal records of Michigan birds, Spring 1953. Jack-Pine Warbler. 31(3):79-95. [91].
- 2 birds (sex unspecified) 10 May 1953 at Mio, Oscoda Co., Michigan (S), 1 bird 15 May 1953 in Kalkaska County, Michigan (D).
100. Anon. 1954. Seasonal records of Michigan birds - errata. Jack-Pine Warbler. 32(3):86.
- Deletes report from Wallace (1946). (93)
101. Black, C. T. 1954. Michigan bird survey, winter 1953-54, and spring, 1954. Jack-Pine Warbler. 32(4):119-134. [132].
- One bird (sex unspecified) 14 May 1954 at Kalkaska Co. Michigan (?); 1 bird (sex unspecified) 19 May 1954 at Lovells, Michigan (?); 1 bird (sex unspecified) 30 May 1954 at Hale, Michigan (?).
102. Ross, R. D. 1954. Birds of the Prairies and the Black Hills. Bull. of the Mass. Aud. Soc. 38(1):3-10. [3,4].
- ♂ 17 May 1953 S of Mio, Oscoda, Co., Michigan (S).
103. Black, C. T.(ed.). 1955. Michigan bird survey, spring, 1955. Jack-Pine Warbler. 33(3):87-94. [92].
- One bird (sex unspecified) 10 May 1955 at Saginaw, Saginaw Co., Michigan (?). (107)

104. Kenegoa, E. E. 1956. Birding in the Saginaw Bay area. Jack-Pine Warbler. 34(2):38-56. [40,53].

Kirtland's Warbler is described as uncommon, arriving 17 May in the Saginaw Bay Area of Michigan. Some nesting information described.

105. Batts, H. L., Jr. 1957. A preliminary report on seasonal distribution of birds in Kalamazoo County, Michigan. Jack-Pine Warbler. 35(1):9-13. [13].

Kirtland's Warbler is described as a rare transient visitant. Observation dates range from 15-16 May (no specific information given).

106. Kenaga, E. E. 1959. Michigan bird survey, Spring, 1959. Jack-Pine Warbler. 37(4):152-158. [157].

One bird (sex unspecified) 11 May 1959 at Grand Beach, Michigan (?); 1 bird (sex unspecified) 22 May 1959 at Grayling, Crawford Co., Michigan (?); 1 bird (sex unspecified) 28 May 1959 in Kalkaska County, Michigan (?).

107. Zimmerman, D. A. and J. Van Tyne. 1959. A distributional checklist of the birds of Michigan. Occ. Paper no. 608 of the Museum of Zoology, University of Michigan, Ann Arbor. 63 pp. [48].

Describes breeding range, and reports 2 records south of breeding range: one bird (sex unspecified) 21 May 1926 at Fish Point, Tuscola County, Michigan (S); ♂ 10 May 1955 at Saginaw, Michigan (D). Also reports 1 record north of breeding range: ♀ 21 May 1885 at Spectacle Reef Lighthouse, NE of Cheboygan, Michigan (S) (sex incorrect, see Wood (1951). J. Henshaw of Univ. of Michigan Museum of Zoology confirms this specimen, only a partial bird, to be a ♂). (103,95)

108. Kenaga, E. E. 1960. Michigan bird survey, Spring, 1960. Jack-Pine Warbler. 38(4):148-154. [152].

Twelve birds (sexes unspecified) 21 May 1960 at Clear lake, Montmorency County, Michigan (?); 6 ♂ 22 May 1960 at Grayling, Michigan (D); 1 bird (sex unspecified) 27 May 1960 at Grand Beach, Michigan (?); 3 birds (sexes unspecified) 28 May 1960 in Oscoda County, Michigan (?).

109. Cuthbert, N. L. 1963. Michigan bird survey, Spring 1962. Jack-Pine Warbler. 41(1):20-47. [37].

One bird (sex unspecified) 12 May 1962 (D) and one bird (sex unspecified) 25 May 1962 (D) near Fletcher, Kalkaska County, Michigan; approx. 6 ♂ 26 May 1962 near Mio, Oscoda Co., Michigan (D).

110. Cuthbert, N. L. 1964. Michigan bird survey, Spring 1963. Jack-Pine Warbler. 42(1):195-227. [220].

Two birds (sexes unspecified) 11 May 1963 in Crawford County, Michigan (?); 3 birds (sexes unspecified) 12 May 1963 and 3 birds (sexes unspecified) 25 May 1963, in Kalkaska County, Michigan (?); 1 bird (sex unspecified) 19 May 1963 in Crawford Co., Michigan (?).

111. Nickell, W. P. 1965. Kirtland's Warbler banded at Cranbrook in fall migration. Jack-Pine Warbler. 43(4):153.
- Immature ♂ 24 Sep 1965 at Bloomfield Hills, Oakland County, Michigan (M). (112,114)
112. Nickell, W. 1965. Kirtland's Warbler comes to Cranbrook. Cranbrook Inst. of Sci. Newsletter. 35(3):38-39.
- Immature ♂ 24 Sep 1965 at Cranbrook Institute, Oakland Co., Michigan (M). (111,114)
113. Wallace, G. J. 1965. Michigan bird survey, Spring 1964. Jack-Pine Warbler. 43(1):26-38. [35].
- 3 records (arrivals to breeding grounds): 15 birds (sexes unspecified) 9 May 1964 at Mio, Oscoda County, Michigan (D); 4 birds (sexes unspecified) 8 May 1964, Crawford County, Michigan (D); 3 birds (sexes unspecified) 31 May 1964 at Presque Isle County, Michigan (D).
114. Kelley, A. H. 1966. Michigan bird survey, fall 1965. Jack-Pine Warbler. 44(1):30-35. [30,34].
- Immature ♂ 24 Sept 1965, Bloomfield Hills, Michigan (M). (111,112)
115. Schroeder, A. B. and T. B. DeBlaey. 1968. The birds of Ottawa County, Michigan. Jack-Pine Warbler. 46(4):99-130. [114,128].
- Kirtland's Warbler is described as very rare. One bird (sex unspecified) 22 May 1938 at Macatawa Park, Holland, Ottawa Co., Michigan (?); 1 bird (sex unspecified) 11 May 1963 at Grand Haven, Ottawa Co., Michigan (?); 1 bird (sex unspecified) 17 Aug 1963 near Grand Haven (?). (88)
116. Kelley, A. H. 1969. Michigan bird survey, Spring 1969. Jack-Pine Warbler. 47(3):91-98. [96].
- Two birds (sexes unspecified) 10 May 1969 at Erie Game Area, Monroe County, Michigan (D).
117. Walkinshaw, L. H. 1971. Calhoun County wood warblers. Jack-Pine Warbler. 49(3):71-81. [77].
- Adult ♂ 11 May 1883 (location unspecified) (S). (10,74,75,78,95,USNM)
118. Kelley, A. H. 1974. Michigan bird survey, Fall 1973. Jack-Pine Warbler. 52(1):33-43. [40].
- Immature bird (sex unspecified) 7 Aug 1973 at Davisburg, Oakland County, Michigan (?).

119. Pinkowski, B. C. 1976. Michigan bird survey, Spring 1976. Jack-Pine Warbler. 54(3):117-128. [125].

3 ♂ 14 May 1976 on breeding ground (county unspecified) (D).

120. Schempf, P. F. 1976. A late record of the Kirtland's Warbler. Jack-Pine Warbler. 54(1):40.

One bird (sex unspecified) 29 Sep 1975 at Mack Lake Management Area, Oscoda Co., Michigan (D). Previous late record for Kirtland's Warbler on breeding grounds was 28 Sep 1919.

121. Pinkowski, B. C. 1978. Michigan bird survey, Spring 1978. Jack-Pine Warbler. 56(3):151-159. [157].

One bird (sex unspecified) 30 May 1978 near Ottawa, Carlton Co., Ontario, Canada (M; banded 1974 on breeding grounds as a nestling).

122. Payne, R. B. 1983. A distributional checklist of the birds of Michigan. Museum of Zoology, University of Michigan Misc. Pub. No. 164. 71 pp. [48-49].

Describes breeding range and generally notes wintering range.

123. Powell, D. J. 1983. Michigan bird survey, Spring 1983. Jack-Pine Warbler. 61(3):83-90. [88].

Birds (numbers and sexes unspecified) 12 May 1983 in Crawford Co., earliest arrival date (D).

124. Powell, D. J. 1983. Michigan bird survey, Summer 1983. Jack-Pine Warbler. 61(4):101-104. [103].

♂ 9-17 Jun 1983 at Gwinn, Marquette Co., Michigan (D).

125. Walkinshaw, L. H. 1985. Birds found in Michigan Jack-Pine burns: fifty-three years of observation. Jack-Pine Warbler. 63(1):24-35. [30].

The author notes that Kirtland's Warbler may begin occupying a jack-pine area 5-6 years following a fire, and abandon an area after 20 or more years following a burn.

MINNESOTA

126. Guilford, H. M. 1893. Dendroica kirtlandi in Minnesota. Auk. 10(1):86.

Adult ♂ 13 May 1892 in plum hedge near Minneapolis, Hennepin Co., Minnesota (S).

127. Roberts, T. S. 1919. A review of the ornithology of Minnesota. Univ. of Minn., Res. Pub. 8(2):1-100. [25].

- ♂ 13 May 1892 at Minneapolis, Hennepin Co., Minnesota (S). (126,128,130)
128. Roberts, T. S. 1932. The birds of Minnesota, 2 vol. [1:65, 2:242-243].
- Kirtland's Warbler is described as very rare or accidental in Minnesota. Generally describes breeding and wintering ranges and migration route. One bird (sex unspecified) 13 May 1892 near Minneapolis, Hennepin Co., Minnesota (S); 1 bird (sex unspecified) 19 May 1921 at Frontenac, Goodhue Co., Minnesota (P); 1 bird (sex unspecified) 27 Aug 1925 at Preston, Fillmore Co., Minnesota (P). (126,127,130)
129. Lupient, M. 1951. Seasonal report. Flicker. 23(3):50-53. [51].
- ♂ (date unspecified) at Como Park, St. Paul, Minnesota (P).
130. Green, J. C. and R. B. Janssen. 1975. Minnesota birds. Univ. of Minn. Press. Minneapolis. 217pp. [159].
- Kirtland's Warbler is described as accidental. One bird (sex unspecified) 13 May 1892 in Hennepin Co., Minnesota (S). (126,127,128)
131. Hiemenz, N. 1980. A 1944 record for the Kirtland's Warbler. Loon. 52(3):112.
- ♂ 22 May 1944 in trees at St. Cloud, Stearns County, Minnesota (D).

MISSOURI

132. Cooke, W. W. 1888. Report on bird migration in the Mississippi Valley in the years 1884 and 1885. U.S.D.A. Div. of Econ. Ornith. Bull. No.2. Washington, D.C. 313 pp. [254].
- One bird (sex unspecified) 8 May 1885 at St. Louis, St. Louis Co., Missouri (S). (133,134)
133. Widmann, O. 1885. Note on the capture of Coturniculus lecontei and Dendroeca kirtlandi within the city limits of St. Louis, Mo. Auk. 2(4):381-382. [382].
- ♂ 8 May 1885 low in a bush near a river in St. Louis, St. Louis Co., Missouri (S). (132,134)
134. Widmann, O. 1907. A preliminary catalog of the birds of Missouri. Trans. of the Acad. of Sci. of St. Louis, vol. 1-296. [231].
- ♂ 8 May 1885 near St. Louis, St. Louis Co., Missouri (S). (132,133)

NORTH CAROLINA

135. Brimley, C. S. and J. H. Grey, Jr. 1941. The season, CXL, August 1 to October 1, 1941: Carolina Region. Aud. Mag. 43(6):567-568. [568].

One bird (sex unspecified) 23 Sep 1941 at Rocky Mount, Edgecombe Co., North Carolina (D). (136, 137)

136. Craighill, F. H. 1942. Craighill's last letter about North Carolina Birds. Chat. 6(2):25-26.

One bird (sex unspecified) 23 Sep 1941 at Rocky Mount, Edgecombe Co., North Carolina (P); 2 birds (sexes unspecified) at Rocky Mount on 2 Sept 1936 and 22 Sept 1938 (P). Refers generally to records from Virginia and South Carolina. (135, 137)

137. Pearson, T. G., C. S. Brimley, and H. H. Brimley. 1942. Birds of North Carolina. N.C. Dept. of Agric. St. Mus. Div. 416 pp.

One bird (sex unspecified) 2 Sep 1936 (P), 1 bird (sex unspecified) 22 Sep 1938 (P), 1 bird (sex unspecified) 23 Sep 1941 (P), all at Rocky Mount, Edgecombe Co., North Carolina (P). (135,136)

OHIO

138. Baird, S. F. 1852. Description of a new species of *Sylvicola*. Ann. of the Lyceum of Nat. Hist. of New York.

Immature ♂ 13 May 1851 near Cleveland, Cuyahoga Co., Ohio (S; the type specimen). (146,162,USNM)

139. Anonymous. (Kirkpatrick, J). 1860. Kirtland's Warbler. Ohio Farmer. 9:179.

One bird (sex unspecified) May 1860 at Cleveland, Cuyahoga Co., Ohio (S). (146)

140. Wheaton, J. M. 1879. Kirtland's warbler again in Ohio. Nuttall Ornith. Club. Bull. 4(1):58.

Two birds (one a ♀, one unspecified; date unspecified on both--sometime during Fall migration) at Rockport, Cuyahoga Co., Ohio (S). Author mentions a third specimen "said to have been taken in that vicinity about the same time" without further information (?).

141. Allen, J. A. 1880. "Langdon's ornithological field notes". Bull of the Nuttall Ornith. Club. 5(4):232-233. [233].

♂ and ♀ 4 and 12 May 1880 near Cleveland, Cuyahoga Co., Ohio (S). (146,USNM)

142. Allen, J. A. 1892. Keyser's 'Bird-dom'. Auk. 9(1):63.

Reports that a Kirtland's Warbler is "one of (Keyser's) much prized discoveries" (probably observed in northeastern Ohio) (sex and date unspecified).

143. Langille, J.H. 1892. Our birds in their haunts. Orange Judd Co. New York. 630 pp. [593].

One bird (sex unspecified) 1851 near Cleveland, Cuyahoga Co., Ohio (S); records from Ohio, Michigan, and the Bahamas generally discussed.

144. Jones, L. 1900. Kirtland's Warbler (Dendroica kirtlandi) at Oberlin, Ohio. o.s. 12(3), n.s. 7(3), no. 32:1-2.

♂ 7 May 1900 in an orchard near Oberlin, Lorain Co., Ohio (P); ♂ 9 May 1900 1 mi S of Oberlin (P); ♂ 9 May 1900 near Oberlin (S). (155)

145. Jones, L. 1902. Kirtland's Warbler (Dendroica kirtlandi) again in Ohio. Wilson Bull. 14(3):104-105.

One bird (sex unspecified) 28 Aug 1902 in low willow and locust trees near Ironton, Lawrence Co., Ohio, opposite Ashland, Kentucky (D). (146)

146. Jones, L. 1903. The birds of Ohio. Ohio St. Acad. of Sci. Spec. Papers. No. 6, 241 pp. [185].

One bird (sex unspecified) 13 May 1851 near Cleveland, Cuyahoga Co., Ohio (S, the type); 1 bird (sex unspecified) May or Jun 1860 near Cleveland, Hamilton Co., Ohio (S); 1 bird (sex unspecified) 1st wk. in May 1872 at Cincinnati, Ohio (S); 1 bird (sex unspecified) May 1878 at Rockport, Cuyahoga County, Ohio (S); 1 bird (sex unspecified) 4 May 1880 at Cleveland (S); 1 bird (sex unspecified) 12 May 1880 at Cleveland (S); 1 bird (sex unspecified) 1891 at Springfield, Clark Co., Ohio (S); 1 bird (sex unspecified) 11 May 1900 at Oberlin, Lorain Co., Ohio (S); 2 birds (sexes unspecified) 28 Aug 1902 near Ironton, Lawrence Co., Ohio (S). (138,139,141,145,USNM)

147. Anon. [Jones, L.]. 1904. Oberlin all day with the birds, 1904. Wilson Bull. 16(2), no. 47:42-50. [42, 45-46, 50].

One bird (sex unspecified) 9 May 1904 at Oberlin, Lorain Co., Ohio (D). (148)

148. Jones, L. 1904. Spring migration in Lorain County, O., 1904. Wilson Bull. 16(2), No. 47;55-57. [57].

One bird (sex unspecified) sometime during Spring 1904 (Mar-May) in Lorain County, Ohio. (D). (147)

149. Baird, R. L. 1905. Bird migration at Oberlin, Ohio. Wilson Bull. 17(3):75-83. [79].

Kirtland's Warbler is described as arriving in Oberlin, Lorain Co., Ohio, between 5-10 May and departing 11 May (1905?) (?).

150. Henninger, W. F. 1906. A preliminary list of the birds of Seneca County, Ohio. Wilson Bull. 18(2); no. 55:47-60. [58].

Two Kirtland's Warblers (sexes unspecified) 11 May 1906 in low saplings in Seneca Co., Ohio (D).

151. Anon. (Jones, L.) 1906. The birds of Cleveland, Ohio, vicinity. Wilson Bull. 18(4), No. 57:110-120. [118-119].

One bird (sex unspecified) 14 Oct 1886 at Cleveland, Cuyahoga Co., Ohio (S). Author generally mentions other Cleveland records (at Lakewood within the last 5 years, no specific information).

152. Jones, L. 1906. Some noteworthy Lorain County records for 1906. Wilson Bull. 18(2), no. 55:74-75. [75].

One bird (sex unspecified) 2 May 1906 in Lorain Co., Ohio. (?). (155)

153. Henninger, W. F. 1908. Bird notes from middle Western Ohio. Wilson Bull. 20(4), no. 65:208-210. [209].

One bird 14 May 1908 near New Bremen, Auglaize Co., Ohio (D).

154. H[enninger], W. F. 1910. Personals: our members here and there. Wilson Bull. 22(2), no. 71: 127-128. [128].

Two birds (sex unspecified) 16 May 1909 at Catawba, Ottawa Co., Ohio (S).

155. Jones, L. 1910. The birds of Cedar Point and vicinity. Wilson Bull. 22(2), no. 71:97-115. [114].

♂ 9 May 1900 in an orchard in Lorain Co., near Oberlin, Ohio (P); ♂ 11 May 1900 S of Oberlin (P); ♂ 11 May 1900 near Oberlin (S). Except for the dates, the details of these three records correspond to Jones (1900); presumably, they are the same. ♂ 9 May 1904 at Oak Point, Lorain Co., Ohio (D); ♂ 2 May 1906 S of Oberlin (D). (147,148)

156. Henninger, W. F. 1911. Notes from the Tri-Reservoir Region in Ohio. Wilson Bull. 24(3), no. 80:155-156. [156].

♂ 15 May 1909 at Catawba Point, Ottawa Co., Ohio (S); author took this specimen in exchange for a Kirtland's Warbler collected in Michigan. (174)

157. Jones, L. 1914. Nineteen years of bird migration at Oberlin, Ohio. Wilson Bull. 26(4), no. 89:198-205. [203].

Reports that there have been (at this date) 3 records for this area. The median earliest record is given as 6 May. Earliest record is 2 May 1906 (no specific information).

158. Jones, L. 1917. A season of abundance of birds in central Ohio. Wilson Bull. 29(3), no. 100:166.

One--?--bird, 21, 22, and 23 May 1914 at Columbus, Franklin Co., Ohio (P).

159. Thomas, E. S. 1926. Notes on some central Ohio birds observed during 1925. Wilson Bull. 38(2):118-119. [119].

One bird (sex unspecified) 11 Sep 1925 along Alum Creek, near Columbus, Franklin Co., Ohio (D). Author discusses 5 other records from the Columbus area: May 1917, 20 May 1920, 17 May 1921, 23 May 1924 (2 birds observed), and 24 May 1924 (different location than prior record) (sex unspecified throughout), (all ?). (160)

160. Thomas, E. S. 1926. Notes on some central Ohio birds observed during 1925. Wilson Bull. 38(2):118-119. [119].

One bird (sex unspecified) 11 Sep 1925 at Alum Creek near Columbus, Franklin Co., Ohio (D); 1 bird (sex unspecified) May 1917 at Indian Springs, N of Columbus (D); 1 bird (sex unspecified) 20 May 1920 (?), 1 bird (sex unspecified) 17 May 1921 (?), 2 birds (sex unspecified) 23 May 1924 (?), and 1 bird (sex unspecified) 24 May 1924 (?) [all from locations near Columbus, Ohio]. (159)

161. Butler, A. W. 1929. Rare birds in Cincinnati collections. Auk. 46(2):196-199. [196].

Two ♂s 4 May 1872 in a thicket of low bushes at Avondale, Hamilton County, Ohio (S).

162. Christy, B. H. 1936. Kirtland marginalia. Cardinal 4(4):77-89. [89].

One bird (sex unspecified) spring 1851 near Rockport, Cuyahoga Co., Ohio (S, type specimen). (138, USNM)

163. Williams, A. B. 1941. Comparative list of rarities. Bird Calendar of the Cleveland Bird Club. 37(4):1-2 [2].

Kirtland's Warbler is listed for both 1940 and 1941 (sex, dates, locations unspecified).

164. Williams, A. B. 1941. Unusual autumn records. and Autumn migrant species. Bird Calendar of the Cleveland Bird Club 37(4):4,11.

Both items report 2 Kirtland's Warblers (sex unspecified) 5 Oct 1941 at Rocky River Valley, Cuyahoga Co., Ohio (P). (166)

165. Williams, A. B. 1943. Interesting or unusual records and Migrant and vagrant species. Bird Calendar of the Cleveland Bird Club 39(4):3,8-9. [3 and 9].

Both items report one bird, (sex unspecified) 26 Sep 1943 in Rocky River Valley, Cuyahoga Co., Ohio (P).

166. McQuown, J. O. 1944. The Kirtland Warbler in the Cleveland region. Cleveland Bird Calendar. 40(1):8.

Two birds (sexes unspecified) 7 Oct 1934 near Hilliard Bridge, Cleveland, Cuyahoga Co., Ohio (?); 1 bird (sex unspecified) 2 Sep

1935 near Hilliard Bridge (?); 1 bird (sex unspecified) 8 Sep 1940 at Cleveland, Ohio (?); 2 birds (sexes unspecified) 5 Oct 1941 near Battery B, Cleveland, Ohio (?); 1 bird (sex unspecified) near Battery B (?). (164)

167. Borrer, D. J. 1950. A checklist of the birds of Ohio, with the migration dates for the birds of central Ohio. Ohio J. of Sci. 50(1):1-32. [8,26].

Kirtland's Warbler is described as a very rare migrant in Ohio. The earliest spring arrival is given as 13 May (1927), \bar{x} =18 May; the latest spring departure is 29 May (1949), \bar{x} =25 May. Earliest fall arrival is 11 Sep (1925) and latest fall departure is 11 Sep (1925) (no average dates listed).

168. Campbell, L. 1968. Birds of the Toledo Area. The Blade. Toledo, Ohio. 330 pp. [245].

Adult ♀ 15 May 1908 at Catawba Island, Ottawa County, Ohio (S); 1 bird (sex unspecified) 22 Sep 1929 at Springfield Township, Lucas County, Ohio (?); 1 bird (sex unspecified) 22 May 1952 at Pearson Park, Oregon, Lucas Co., Ohio (?); 1 bird (sex unspecified) 24 May 1954 at Put-in-Bay lighthouse, Ottawa County Ohio (S); 1 bird (sex unspecified) 23 May 1962 at Lakeside, Ottawa Co., Ohio (?); 1 bird (sex unspecified) 16 May 1964 at Lakeside (?); 1 bird (sex unspecified) 12 May 1966 at Oak Openings Park, Lucas County, Ohio (?).

169. Hanson, D., ed. 1976. Just before placing the small bird in the trash... Audubon. 78(1):140.

One bird (sex unspecified) fall 1975 in Westwood, Hamilton Co., Ohio (M (bird banded on breeding grounds in 1971 and 1973) and S). (170,171,173,USNM)

170. Walkinshaw, L. R. 1976. A Kirtland's Warbler life history. Am. Birds. 30(3):773-774.

♂ 27 Sep 1975 at Cincinnati, Hamilton Co., Ohio (M, banded in 1971 and 1973 on the breeding grounds, and S, recovered after fatally striking a window). (169,171,173,USNM)

171. Walkinshaw, L. H. 1976. Kirtland's and Blackpoll Warbler banding recoveries. Jack-Pine Warbler. 54(2):92-93.

Breeding grounds records are discussed. One male 27 Sep 1975 at Cincinnati, Hamilton Co., Ohio (M and S; this bird was banded on the breeding grounds and found dead under a window). (169,170,173,USNM)

172. Kleen, V. M. 1980. (The changing seasons: spring migration 1980), middlewestern prairie region. Am. Birds. 34(5):781-785. [784].

♀ 21 May 1980 at Magee Marsh Wildlife Area, Ohio (S).

173. Walkinshaw, L. H. 1980. Some records of birds banded in Michigan. Jack-Pine Warbler. 58(4):131-141. [134-135].

Author discusses banding and successive recapture of several Kirtland's Warblers banded on the breeding ground. One ♀ 27 Sep 1975 at Cincinnati, Hamilton Co., Ohio (M and S; the bird was banded on the breeding grounds and found dead under a window). (169,170,171,USNM)

174. Campbell, L. W. 1940. Birds of Lucas County. Toledo Mus. of Sci. Bull. 1(1):1-225. [146,183].

Kirtland's Warbler is described as a very rare migrant in Ohio. One bird (sex unspecified) 22 Sep 1929 at Springfield Township, Lucas Co., Ohio (D); adult ♂ 15 May 1909 at Catawba Point, Ottawa County, Ohio (S). (156)

PENNSYLVANIA

175. Warren, B. H. 1890. Report on the birds of Pennsylvania, 2nd ed. Published by E.K. Meyers, Sta. Printger. Harrisburg, PA. 432 pp. [270-290].

Kirtland's Warbler habitat is described as the eastern United States (Pennsylvania, Ohio, Missouri, Michigan, Wisconsin) and the Bahamas in winter. One bird "and its family" (numbers, sexes, date and location unspecified); 1 bird (sex unspecified) 25 Jun 1885 near Dublin Gap Springs, (S; this record was corrected in Stone, 1898). (176,177,178)

176. B[atclelder], C. F. 1891. Warren's revised report on the birds of Pennsylvania. Auk. (8):101-103. [102].

Criticizes Warren (1890) for describing Kirtland's Warbler as breeding in Pennsylvania without further substantiation. (175,177,178)

177. Stone, W. 1898. Dendroica kirtlandii in Pennsylvania- a correction. Auk. 15(4):331.

Author corrects an incorrect report of Kirtland's Warbler in Pennsylvania published in Warren, Birds of Pennsylvania (1890). (175,176,178)

178. Frey, E. S. 1943. The centennial check-list of the birds of Cumberland County, Pennsylvania and her borders, 1840-1943. Published by the author, Lemoyne, PA. 68 pp. [53-53].

One bird (sex unspecified) 25 Jun 1885 near Dublin Gap Springs, Cumberland Co., Pennsylvania (S; this record refuted in Stone 1898); Kirtland's Warbler is also described as breeding in Pennsylvania. (175,176,177)

179. Scott, F. R., and D. A. Cutler. 1965. Regional reports: the fall migration, August 16 to November 30, 1964, Middle Atlantic Coast region. Aud. Fields Notes. 13(1):21-24. [24].

One bird (sex unspecified) 27 Sep 1964 near Lewisville, Pennsylvania (D).

180. Bernard, R. F. 1966. Regional reports; the fall migration August 16 to November 30, 1965, Western Great Lakes Region. Aud. Field Notes. 20(1):45-46, 50-53. [52].

Immature ♂ 24 Sep 1965 at Powdermill Nature Reserve Westmoreland Co., Pennsylvania (M).

181. Parkes, K. C. and R. C. Leberman. 1971. A Kirtland's Warbler banded at Powdermill. Powdermill Nature Reserve Educ. Release No. 89. 2 p.

One bird (sex unspecified) 21 Sep 1971 at Powdermill Nature Reserve, Westmoreland Co., Pennsylvania (M). Recaptured 26 Sep and 2 Oct 1971 at the same location. (183,184,286)

182. Hall, G. A. 1972. Regional reports. The fall migration--Aug 16, 1971 to Nov 30, 1971: Appalachian region. Am. Birds. 26(1):62-66. [65].

One bird (sex and date unspecified) at Powdermill Nature Reserve, near Ligonier, Westmoreland Co., Pennsylvania (M).

183. Leberman, R. C. 1976. The birds of the Ligonier Valley. Carnegie Mus. of Natr. Hist. Spec. Pub. No. 3. Pittsburgh, Pennsylvania. 67pp. [46].

Immature bird (sex unspecified) 21 Sep 1971 at Powdermill Nature Reserve, Westmoreland Co., Pennsylvania (M, same bird recaptured 26 Sep 1971 and 2 Oct 1971). (181,184,286)

184. Clench, M. H. and R. C. Leberman. 1978. Weights of 151 species of Pennsylvania birds analyzed by month, age, and sex. Bull. of Carnegie Mus. of Nat. Hist. No. 5. 87pp. [51].

One bird (sex unspecified) Sep and Oct 1971 at Powdermill Nature Reserve, near Rector, Westmoreland Co., Pennsylvania (M). (181,183)

SOUTH CAROLINA

185. Hoxie, W. 1886. Kirtland's Warbler on St. Helena Island, South Carolina. Auk. 3(3):412-413.

Adult ♂ 27 Apr 1886 in low bushes on St. Helena Island, Beaufort Co., South Carolina (S); 3 birds (sexes unspecified) 3 May 1886 on St. Helena Island (D). (196,AMCZ)

186. Loomis, L. M. 1889. A rare bird in Chester Co., South Carolina. Auk. 6(1):74-75.

♀ on 11 Oct 1888 in an old-field hedge in Chester County, South Carolina (?). (191,199)

187. Loomis, L. M. 1891. A further review of the avian fauna of Chester County, South Carolina. Auk. 8(1):49-59, 8(2):167-173. [52,53,171].

Records generally noted from Washington, D.C., and lower South Carolina.

188. Wayne, A. T. 1904. Kirtland's Warbler (Dendroica kirtlandi) on the coast of South Carolina. Auk. 21(1):83-84.

Immature ♂ 29 Oct 1903 in top of a water-oak at Mount Pleasant, Charleston Co., South Carolina (S). (191,199)

189. Wayne, A. T. 1911. A third autumnal record of Kirtland's Warbler (Dendroica kirtlandi) for South Carolina. Auk. 28(1):116.

One bird, possibly ♀, 4 Oct 1910, in live oaks (Quercus virginiana) at Oakland Plantation, Christ Church Parish, South Carolina (D). (190,191,192)

190. Bragg, L. M. 1912. Birds of the Charleston Mus. 8(3):27-33. [32].

Kirtland's Warbler is described as a transient visitor. One bird (sex unspecified) 4 Oct 1910 at Oakland Plantation, Christ Church Parish, South Carolina (?). (189,191,199)

191. Jennes, P. 1925. Kirtland's Warbler in North Carolina. Bird-Lore. 27(4):252-253.

♂ 5 May 1925 at 8:00 a.m. at Irene Mills Park, South Carolina (apparently the title is in error) (D). The author discusses other South Carolina Kirtland's warbler records: ♂ 27 Apr 1880 at St. Helena Island, Beaufort Co., (S); ♀ 11 Oct 1888 in Chester Co., (S); ♂ 29 Oct 1903 near Mt. Pleasant, Charleston Co., (S); 1 bird (sex unspecified) 4 Oct 1910 at Christ Church Parish (?). (186,188,189,190,199)

192. Pickens, A. L. 1928. Birds of upper South Carolina: a study in geographical distribution. Wilson Bull. 40(4), no. 145:238-246. [243].

Author notes that Kirtland's Warbler is recorded as a migrant in the eastern Piedmont Plateau (?).

193. Fargo, W. G. 1934. Watler John Hoxie. Wilson Bull. 46(3):169-196. [191].

Kirtland's Warbler "reported recently" (date, location, and sex unspecified) (?).

194. Chamberlain, E. B. 1936. Seasonal list of South Carolina birds, revised to November 1936. Charleston Mus., Leaflet no. 8, 21pp. [17].

Kirtland's Warbler is described as a rare transient. Birds 27 Apr, 4-29 Oct (number, sex, year, and location(S) unspecified) (?).

195. Faver, A. R. 1949. Kirtland's Warbler seen at Eastover, Richland County, S.C. Chat. 13 (5):79-80.

One bird (sex unspecified) late afternoon 14 Oct 1949 in plum trees at Eastover, Richland Co., South Carolina (D). (198,199,200,202,203)

196. Sprunt, A., Jr. and E. B. Chamberlain. 1949. (2nd ed. 1970). South Carolina bird life. Charleston Mus. Cont. no. 11. Univ. of S.C. Press. Columbia, 585 pp. [467-468, 561].

Kirtland's Warbler is classified as a rare transient 27 Apr to 5 May and 4-29 Oct over most of the state. One bird (sex unspecified) 27 Apr 1886 at St. Helena Island, Beaufort Co., South Carolina (S); 3 birds (sexes unspecified) at this location the same week. (185,AMCZ)

197. Denton, J. F. and B. R. Chamberlain. 1950. Regional reports: fall migration, August 16 to November 30, 1949, Southern Atlantic Coast region. Aud. Field Notes. 4(1):9-11. [10].

One bird (sex unspecified) 14 Oct 1948 in the Columbia, South Carolina area (D).

198. Faver, A. R. 1951. Chats and other warblers at Eastover, S.C. Chat. 15(5):82-83. [83].

One bird (sex unspecified) 1 Sep 1951 (D); 1 bird (sex unspecified) 14 Oct 1949 at Eastover, Richland Co., South Carolina (D). (195,199,200,202,203)

199. Faver, A. R. 1953. Rare warblers in the Carolinas. Chat 17(2):30-33. [31-33].

One bird (sex unspecified) 13 May 1851 at Cleveland, Cuyahoga Co., Ohio (S); 1 bird (sex unspecified) 2 Sep 1936, 1 bird (sex unspecified) 22 Sep 1938, 1 bird (sex unspecified) 23 Sep 1941, all at Rocky Mount, Edgecombe Co., North Carolina (P); 1 bird (sex unspecified) 1886 in the "low country", South Carolina (?); one bird (sex unspecified) 1888 at Chester, Chester Co., South Carolina (S); 1 bird (sex unspecified) 29 Oct 1903 at Charleston, Charleston Co., South Carolina (S); 1 bird (sex unspecified) 4 Oct 1910 at Charleston, (D); 1 bird (sex unspecified) 5 May 1925 at Gaffney, Cherokee Co., South Carolina (P); 1 bird (sex unspecified) 14 Oct 1949, 1 bird (sex unspecified) 1 Sep 1951 both at Eastover, Richland Co., South Carolina (D). (186,188,189,190,191,195,200,202,203)

200. Hatcher, J. B. 1960. Rare Kirtland's Warbler at Aiken, S.C. Chat. 24(4):102-103.

One bird (sex unspecified) 5 Oct 1960 between 3:15 and 3:45 p.m. at Aiken, Aiken Co., South Carolina (D). Refers generally to other South Carolina records: "up-state", 1925, and Eastover, Richland Co., 1949.

201. Hatcher, J. B. 1960. Rare Kirtland's Warbler at Aiken, S.C. Chat. 24(4):102-103.
 ♀ 5 Oct 1960 at Aiken, Aiken Co., South Carolina (D).
202. Faver, A. R. 1967. Kirtland's Warbler at Eastover, S.C. Chat. 31(4):98.
 One bird (sex unspecified) 22 Sep 1967 at Eastover, Richland Co., South Carolina (D); 1 bird (sex unspecified) at Eastover, (D); 1 bird 14 Oct 1949 (sex unspecified) 1 Sep 1951 at Eastover (D). (195,198,199,200,203)
203. Faver, A. R. 1969. Birding at Beaumont. Chat. 33(4):88-89. [89].
 One bird (sex unspecified) 14 Oct 1949 at Eastover, Richland Co., South Carolina (D); 1 bird (sex unspecified) 1 Sep 1951 at Eastover (D). (195,198,199,200,202)

TENNESSEE

204. Darnell, Mrs. M. 1956. Kirtland's Warbler. Migrant. 27(3):53.
 One bird (sex unspecified) 28 Sep 1956 at Greeneville, Greene Co., Tennessee (P).
205. Nicholson, C. P. 1983. The official list of Tennessee birds. Migrant. 54(1):2-5. [4].
 Kirtland's Warbler is listed as a provisional species.

VIRGINIA AND THE DISTRICT OF COLUMBIA

206. Smith, H. M. and W. Palmer. 1888. Additions to the avifauna of Washington and vicinity. Auk. 5(2):147-148. [148].
 One bird (sex unspecified) 25 Sep 1887 near Fort Myer, Alexandria Co., Virginia (S). (207,208)
207. Cooke, M. T. 1921. Birds of the Washington Region. Proc. of the Biol. Soc. of Wash. 34:1-22. [12].
 One bird (sex unspecified) 25 Sep 1887 (location unspecified) (?). (206,208)
208. Murray, J. J. 1952. A check-list of the birds of Virginia. Va. Soc. of Ornith. 113 pp. [95].
 One bird (sex unspecified) 28 Sep 1887 at Fort Myer, Alexandria Co., Virginia (S); 1 bird (sex unspecified) 1 wk. following the prior record at Fort Myer (D). (206,207)

WEST VIRGINIA

209. Brooks, M. 1937. A sight record of Kirtland's Warbler in West Virginia. Redstart. 4(9):61.

One bird (sex unspecified) 19 May 1937 near Cheat Lake, Monongalia Co., West Virginia (P). (211,212)

210. Boggs, I. B. 1944. Field notes: Kirtland's Warbler. Redstart. 11(4 and 5):26.

One bird (sex unspecified) 16 May 1943 near Morgantown, Monongalia Co., West Virginia (P); 1 bird (sex unspecified) 9 May 1937 near Morgantown (P). (211,212)

211. Brooks, M. 1944. A check-list of West Virginia birds. W.Va. Univ. Ag. Expt. Sta. Bull. 316. 56 pp. [43].

One bird (sex unspecified) 19 May 1937 near Ice's Ferry, Monongalia Co., West Virginia (P); ♂ 16 May 1943 near Morgantown, Monongalia Co., West Virginia (P). (209,210,212)

212. Brooks, M. 1944. A check-list of West Virginia birds. W. Va. Univ. Ag. Expt. Sta. Bull. 316 pp. [43].

One bird (sex unspecified) 19 May 1937 near Ice's Ferry, Monongalia Co., West Virginia (P); ♂ 16 May 1943 outside Morgantown, Monongalia Co., West Virginia (?).

213. Collett, P. 1983. Kirtland's Warbler near Williamstown, W. Va. Redstart 50(4):107-108.

One bird (sex unspecified) 17 May 1983 after 5:00 p.m. between Williamstown and Boaz, W. Va., near the Ohio River (?); 1 bird (sex, date unspecified) in Reno, Ohio "a year or so ago" (?).

WISCONSIN

214. Hoy, P. R. 1852. Notes on the ornithology of Wisconsin. Trans. of the WI St. Ag. Soc. vol. Z:341-364. [349].

One bird (sex unspecified) 20 May 1853 at Racine, Racine Co., Wisconsin (P). (219)

215. Taylor, W. 1917. Kirtland's Warbler in Madison, Wisconsin. Auk. 34(3):343.

♀ 19 May 1917 at Madison, Wisconsin (D).

216. Barger, N. P. 1941. May field notes. Pass. Pigeon. 3(6):57-60. [59].

One bird (sex and date unspecified) in Appleton, Outagamie Co., Wisconsin (P).

217. Derleth, A. 1947. Sac Prairie Summer. Pass. Pigeon. 9(3):106-108. [108].
One---?---bird (sex and number of birds unspecified) 10 Sep 1947
"passing through" the Sac Prairie (Wisconsin?) (P).
218. Robbins, S. D., Jr. 1947. 1946 in review. Pass. Pigeon. 9(2):48-52. [49,
52].

One bird (sex unspecified) 23 May 1946 near Rhinelander, Oneida Co.,
Wisconsin (D).
219. Kumlien, L. and N. Hollister. 1951. The birds of Wisconsin, revised by A.W.
Schorger. Wisc. Soc. for Ornithology, Inc. Madison. 122 pp. [117-118].

One bird (sex unspecified) 20 May 1853 at Racine, Racine Co.,
♂ Wisconsin (P); 24 May 1853 at Lake Koshkonong, Wisconsin (P); 1
bird (sex unspecified) 19 May 1917 at Madison, Wisconsin (?). (214)
220. Hussong, C. 1956. Kirtland's Warbler in Door Co., pages 122-123 in: Lound,
M. and R. Lound, eds. By the wayside...Pass. Pigeon. 18(3):120-124.

One bird (sex unspecified) 20 May 1956 near Fairland, Door Co.,
Wisconsin, 25 mi. NE of Green Bay (?). (221)
221. Lound, M. and R. Lound. 1956. 1956 in review...Pass. Pigeon. 18:66-72.

Kirtland's Warbler appears on the 1956 spring migration list. One
bird (sex unspecified) 20 May 1956 in Door Co., Wisconsin (?).
222. Bernard, R. F. 1967. Regional reports: the spring migration, Apr 1 to May
31, 1967, Western Great Lakes region. Aud. Field Notes. 21(4):510-513.
[512].

One bird (sex and date unspecified) at Green Bay, Door Co.,
Wisconsin (D).
223. Columban, Bro. 1968. Kirtland's Warbler. in By the Wayside. Pass. Pigeon.
30(1):28-33. [29].

One bird (sex unspecified) 25 May 1968 at 6:00 p.m. at Green Bay,
Door Co., Wisconsin (P).
224. Greenman, D. 1972. Wisconsin's eighth Kirtland's Warbler. Pass. Pigeon.
3491:40.

One bird (sex unspecified) 21 May 1971 at Redgranite, Waushara Co.,
Wisconsin (D).
225. Tessen, D. 1973. Field notes: the autumn season, August 16-November 30,
1972. Pass. Pigeon. 35(3):133-149. [134,146].

One bird (sex unspecified) 5 Oct 1973 at Sheboygan Co., Wisconsin
(D).
226. Tilghman, N. G. 1979. The search for the Kirtland's Warbler in Wisconsin.
Pass. Pigeon. 41(1):16-24.

Two ♂ 10 June 1978 through late July 1978 in Jackson Co., Wisconsin, apparently unmated (D); 1 ♂ 9 June 1978 at Necedah National Wildlife Refuge (P); 1 ♂ (June?) 1978 near Petawawa, Ontario (D); 1 ♂ (date unspecified) at Quebec, 60 mi E of Petawawa (D).

227. Roberts, N. and H. Roberts. 1980. Field notes: the summer season--June 1 to July 31, 1979. 42(2):77-83. [82].

One bird (sex unspecified) 7 June 1979 (sex unspecified) in Jackson Co., Wisconsin (?).

228. Tessen, D. 1981. Kirtland's Warbler found again in Jackson Co., Pass. Pigeon. 43(2):64.

One bird (sex unspecified) 14 June 1980 in Jackson Co., Wisconsin (D).

GENERAL (SEVERAL LOCATIONS REPORTED IN SAME PUBLICATION)

229. Baird, S. F. 1859. Catalogue of North American birds chiefly in the museum of the Smithsonian Institution. Smith. Misc. Coll. 1st Octavo ed. article 4. 24 pp. [6].

Kirtland's Warbler is listed no. 205 in the catalog (no specific information) (S).

230. Baird, S. F. 1864-1872. Review of American birds in the museum of the Smithsonian Institution, part I, North and Middle America. Smith. Misc. Coll. no. 181. 449 pp. [206-207].

One bird (sex unspecified) May 1851 near Cleveland, Cuyahoga Co., Ohio (S) (the type specimen); one bird (sex and date unspecified) at sea between Abaco and Cuba (S); female 9 June 1860 near Cleveland (S). Two other birds are generally reported: one (sex unspecified) near Cleveland (?), and the other (sex and date unspecified) at Racine, Racine Co., Wisconsin (P).

231. Purdie, H. A. 1879. Another Kirtland's Warbler (Dendroeca kirtlandi). Bull. of the Nuttall Ornith. Club. 4(3):185-186.

♀ 16 May 1878 at Ann Arbor, Washtenaw Co., Michigan (S); ♂ 2nd week in Oct 1841 at sea between Abaco, Bahamas, and Cuba (S); ♂ 13 May 1851 near Cleveland, Ohio (S); ♀ June 1860 near Cleveland, Cuyahoga Co., Ohio (S); ♂ 1st week in May at Cincinnati, Hamilton Co., Ohio (S); ♀ 15 May 1885 at Ann Arbor (S); ♂ and ♀ May 1878 at Rockport, Cuyahoga Co., Ohio; ♀ 9 Jan 1879 at Andros Island, Bahamas (S).

232. Butler, A. W. 1893. Notes on Indiana birds. Proc. Ind. Acad. of Sci. 1893: 116-120. [119].

Author describes the "first specimen...reported from state" as one (sex unspecified) taken 1 May 1893 at Wabash, Wabash Co., Indiana.

This contradicts Ulrey and Wallace (1895). The following records are also reported: One bird (sex unspecified) 2nd week in Oct 1841 off Abaco, Bahamas (S); ♂ 15 May 1851 near Cleveland, Cuyahoga Co., Ohio (S); ♀ June 1860 near Cleveland, (S); ♂ 1st week in May 1872 near Cincinnati, Hamilton Co., Ohio (S); ♀ 15 May 1872 at Ann Arbor, Washtenaw Co., Michigan; 2 birds (sex unspecified) May 1878 at Rockport, Cuyahoga Co., Ohio (?); ♀ 9 Jan 1879 at Andros Island, Bahamas (S); ♀ 16 May 1879 at Ann Arbor, Michigan (S); ♂ 4 May 1880; ♀ 12 May 1880 at Cleveland, (S); ♂ 11 May 1883 at Battle Creek, Calhoun Co., Michigan (S); 1 bird (sex unspecified) 8 May 1885 at St. Louis, St. Louis Co., Missouri (?); (sex unspecified) 25 May 1885 at Spectacle Reef, Mackinac Co., Michigan (S); 1 bird (sex unspecified) 25 June 1885 near Dublin Gap Springs, Pennsylvania (P); 1 bird (sex unspecified) 27 Apr 1886 on St. Helena Island, Beaufort Co., South Carolina (D). Three others reported without specific information for this location; 1 bird (sex unspecified) 25 Sep 1887 near Fort Myer, Alexandria Co., Virginia (D). Another reported sighting a week late without specific information; ♀ April or May 1888 at Ann Arbor, (S); ♀ 11 Oct 1888 at Chester, Chester Co., South Carolina (S); ♂ 13 May 1892 near Minneapolis, Hennepin Co., Minnesota (S); 1 bird (sex and date unspecified) Wisconsin (P); 1 bird (sex unspecified) 1 May 1893 at Wabash, Wabash Co., Indiana (S).

233. Chapman, F. M. 1898. Kirtland's Warbler (Dendroica kirtlandi). Auk. 15(4):289-293.

One bird (sex unspecified) 29 Apr at St. Helena Island, Beaufort Co., South Carolina (?); 1 bird (sex unspecified) 8 May at St. Louis, St. Louis Co., Missouri (?); 1 bird (sex unspecified) 7 May at Glenn Ellyn, Du Page Co., Illinois (?); 1--?--bird (sex unspecified) 4 and 7 May at Wabash, Wabash Co., Indiana (?); 1--?--bird (sex unspecified) 12 and 13 May at Cleveland, Cuyahoga Co., Ohio (?); 1 bird (sex unspecified) 13 May at Minneapolis, Hennepin co., Minnesota (?); 1 bird (sex unspecified) 11 May at Battle Creek, Calhoun Co., Michigan (?); 1--?--bird (sex unspecified) 15 and 16 May at Ann Arbor, Washtenaw Co., Michigan (?); 1 bird (sex unspecified) 1 May at Ann Arbor (?); 1 bird (sex unspecified) 21 May at Mackinac, Mackinac Co., Michigan (?); 1 bird (sex unspecified) 25 Sep at Fort Myer, Alexandria Co., Virginia (?); 1 bird (sex unspecified) 11 Oct at Chester, Chester Co., South Carolina (?); 3 birds (sexes unspecified) 3 May at St. Helena Island, Beaufort Co., South Carolina (?); 5 birds (sex and date unspecified) at Ohio (?). Many of these records are likely substantiated by specimens, but this is unclear from the text. More specific records include: ♂ 13 May 1851 near Cleveland, (S); 1 bird (sex unspecified) May 1860 at Cleveland, (S, specimen discarded); one bird (sex unspecified) ca. 1840 at sea between Cuba and Abaco (S, about 10 years before the type specimen was taken in Cleveland); ♂ May 1872 at Avondale, Ohio (S); 2 birds (sex unspecified) 1878 or 1879 at Rockport, Cuyahoga Co., Ohio (S); ♀ 9 Jan 1879 on Andros Island, Bahamas (S); 2 ♀ 15 May and 16 May 1875 at Ann Arbor, (S); ♀ 12 May 1880 at Cleveland, (S); ♂ 11 May 1883 at Battle Creek, Michigan (S); ♂ 21 May 1885 at the Straits of Mackinac, Mackinac Co., Michigan (S); ♂ 8 May 1885 at St.

Louis, (S): ♂ 27 Apr 1886 on St. Helena Island (S); 3 birds (sexes unspecified) 3 May 1886 on St. Helena (D); 1 bird (sex unspecified) 25 Sep 1887 at Fort Myer, Virginia (S); 1 bird (sex unspecified) 1 wk. following the prior record in 1887 at Fort Myer, Virginia (D); ♂ 18 Apr 1887 at New Providence, Bahamas (S); 1 bird (sex unspecified) 11 Oct 1888 at Chester(S); 1 bird (sex unspecified) 7 May 1895 at Wabash (S); 1 bird (sex unspecified) 1 Feb 1884 (S); 2 birds (sexes unspecified) 13 Feb 1884 (S); 1 bird (sex unspecified) 20 Feb 1884 (S); 1 bird (sex unspecified) 1 Mar 1884 (S); 1 bird (sex unspecified) 11 Mar 1884 (S); 1 bird (sex unspecified) 13 Mar 1884 (S); 2 birds (sexes unspecified) 15 Mar 1884 (S); 2 birds (sexes unspecified) 17 Mar 1884 (S); 2 birds (sexes unspecified) 22 Mar 1884 (S); 1 bird (sex unspecified) at Chester, South Carolina (S); ♀ 1 May 1888 at Ann Arbor (S); 3 birds (sexes unspecified) Apr 1891 on Berry Islands, Bahamas (S); 2 birds (sexes unspecified) Jan/Feb 1891 on Caicos Island, Bahamas (S); 1 bird (sex unspecified) Mar 1891 on Abaco (S); 4 birds (sexes unspecified) 4-9 Mar 1891 on Watling's Island, Bahamas (S); 2 birds (sexes unspecified) 12 Apr on Green Cay, Bahamas (S); ♂ 13 May 1892 at Minneapolis, Minnesota (S); ♂ 7 May 1894 at Glen Ellyn, Illinois (S); 1 bird (sex unspecified) 4 May 1892 at Wabash, 24 Mar 1884 (S); 3 birds (sexes unspecified) 26 Mar 1884 (S); 1 bird (sex unspecified) 29 Mar 1884 (S); 1 bird (sex unspecified) 25 Mar 1893 (S); 1 bird (sex unspecified) 2 Apr 1893 (S); 1 bird (sex unspecified) Mar 1897 (S); 1 bird (sex unspecified) 4 Mar 1897 (S); 1 bird (sex unspecified) 5 Apr 1897 (S); 2 birds (sexes unspecified) 6 Apr 1897 (S); all 29 records from Nassau, New Providence, Bahamas; 2 birds (sexes unspecified) 20 Apr 1897 (S); 1 bird (sex unspecified) 22 Apr 1897, all 3 from Eleuthera Island, Bahamas; 1 bird (sex unspecified) 5 May 1897 at Athels Island, Bahamas (S); 1 bird (sex unspecified) 19 Apr 1897 at West Jupiter, Palm Beach Co., Florida (?); 1 bird (sex unspecified) 27 Apr 1897 at West Jupiter (S).

234. Chapman, F. M. 1899. Further notes on Dendroica kirtlandi. Auk. 16(1):81.

At this date, 75 specimens have been collected (55 in the Bahamas and 20 in the U.S.). The author includes additions and collections to records reported in Chapman (1898): one bird (sex unspecified) 25 May 1894 in Winnebago Co., Illinois (S); and 8 specimens rather than 1 in collection from New Providence, Bahamas.

235. Allen, J. A. 1904. Kirtland's Warbler. Auk. 21(4):506-507.

Reviews papers (Adams 1904, Wood 1904) about migration and breeding area of Kirtland's Warbler. No specific information presented.

236. Cooke, W. W. 1904. Distribution and migration of North American Warblers. U.S.D.A. Div. of Biol. Surv. Bull. no. 18. 142 pp. [9,16,91-92].

The Kirtland's Warbler is described as wintering in the Bahamas as far south as the Caicos Island group, having been collected from the Berry and Andros groups, Eleuthera, New Providence, Green Cay, Watlings and Athels islands, and from Abaco in migration. One bird (sex unspecified) 19 Apr 1897 at West Jupiter, Palm Beach Co., Florida (?). One bird 27 Apr and 3 May (year unspecified) at St.

Helena Island, Beaufort Co., South Carolina (?). Generally recorded are sightings from the first week of May at St. Louis, St. Louis Co., Missouri, Cincinnati Hamilton Co., Ohio, Glen Ellyn, Du Page Co., Illinois, and Wabash, Wabash Co., Indiana; sightings from the second week of May include Cleveland, Cuyahoga Co., Ohio, Oberlin Lorain Co., Ohio, Battle Creek Michigan, Ann Arbor Washtenaw Co., Michigan, Mackinac Mackinac Co., Michigan, and Minneapolis Hennepin Co., Minnesota. Other spring records include: (sex and number of birds unspecified) 4 Mar and 5 Apr 1897 in the Bahamas; 25 Mar 1902 at Little Abaco, Bahamas; Apr 1902 at Nassau, Bahamas; 14 May 1902 at Ann Arbor; at Morgan Park, Cook Co., Illinois; 25 May at Rockford, Illinois; 24 May at Lake Koshkonong, Wisconsin; 15 May 1885 at Kalamazoo, Michigan; 15 June at Luzerne, Oscoda Co., Michigan; 16 May 1900 at Toronto, York Co., Ontario, Canada; 15 June and 3 July at Oscoda Co., Michigan (breeding ground) (all records are cited from the literature, therefore all are classified as D).

237. Jones, L. 1904. "Discovery of the breeding area of Kirtland's Warbler". Wilson Bull. 16(2), no. 47:63-64.

Reviews Wood (1904).

238. Jones, L. 1904. "The migration route of Kirtland's Warbler". Wilson Bull. 16(2), no. 47:64.

Reviews Adams (1904). A route is suggested, based on known records at this time, which generally consists of a westward migration from the wintering grounds to the Mississippi River and N along this river to Michigan, with some offshoots at prominent waterways along this route.

239. Baird, S. F., T. M. Brewer, and R. Ridgway. 1905. A history of North American birds, vol. I. Little, Brown, and Co. Boston. pp. [1:221,272,pl.14].

Kirtland's Warbler is described in a general key as inhabiting the eastern province of the United States (N Ohio) and wintering in the Bahamas. The first bird known was found May 1851 at Cleveland, Cuyahoga Co., Ohio (S). The second record comes from the area of the ocean between Cuba and Abaco (sex and date unspecified) 9 Jun 1860 near Cleveland (S). Two other records are referred to generally from Cleveland (lost specimen, therefore classified as ?) and Racine, Racine Co., Wisconsin (P).

240. Cooke, W. W. 1905. An untenable theory of bird migration. Condor. 7:8-9. [8].

The author refutes Adams (1904) theory of migration as applied to the Kirtland's Warbler and other species. No specific information is given.

241. Wayne, A. T. 1910. Birds of South Carolina. Contributions from the Charleston Mus. Charleston, SC. 254 pp. [167-169].

♂ 27 Apr 1886 on St. Helena Island, Beaufort Co., South Carolina (S); ♀ 11 Oct 1888 at Chester, Chester Co., South Carolina (S); ♂ 29

Oct 1903 in a water oak near Mount Pleasant, Charleston Co., South Carolina (S); 1 bird 25 Sep 1887 at Fort Myer, Alexandria Co., Virginia (S); 1 bird (sex unspecified) 1 wk following the prior record at Fort Myer (?); 1 bird (sex unspecified) 19 Apr 1897 at West Jupiter, Palm Beach Co., Florida (D); 1 bird (sex unspecified) 27 Apr 1897 at West Jupiter (S); 1 bird (sex unspecified) 12 Apr 1897 at West Jupiter (S); 1 bird (sex unspecified) 12 Apr 1902 at Cumberland Island, Camden Co., Georgia (S); 1 bird (sex unspecified) 16 May 1900 at Toronto, York Co., Ontario, Canada (S).

242. Barrows, W. B. 1912. Michigan bird life. Mich. Ag. Coll. Dept. of Zoo. and Physio. Spec. Bull. 822 pp. [618-623].

One bird (sex unspecified) 13 May 1851 at Cleveland, Cuyahoga Co., Ohio (S); 1 bird (sex unspecified) 1840 at sea near the Bahama Islands (S); 2 ♀ 15-16 May 1879 at Ann Arbor, Washtenaw Co., Michigan (S); ♂ 11 May 1883 at Battle Creek, Calhoun Co., Michigan (S); ♂ 21 May 1885 at Spectacle Reef Lighthouse, Mackinac Co., Lake Huron, Michigan (S); ♂ 18 May 1888 at Ann Arbor (S); 1 bird (sex unspecified) 1898 in Kalamazoo County, Michigan (S); ♀ 14 May 1902 at Ann Arbor (S); ♂ 15 June 1903 near Luzerne, Oscoda Co., Michigan (S); other records listed include Illinois 7 May, Indiana 4 and 7 May, and Ohio 12 and 13 May (sex, year and location unspecified) 7 and 9 May 1900 at Oberlin, Lorain Co., Ohio (D). Breeding records also described; wintering range generally given as "the Bahamas".

243. Averill, C. K. Migration and physical proportions: a preliminary study. Auk. 37(4):572-579. [577].

Kirtland's Warbler listed with Prairie, Pine, Yellow-throated, and Chestnut-sided Warblers as breeding S of the Canadian zone and not reaching S. America in the winter. Physical measurements of Kirtland's Warbler (♂) are given.

244. Coues, E. 1927. (1st ed. 1886). Key to North American birds, 6th ed., vol. 1. The Page Co. Pub. Boston, Massachusetts. 863 pp. [330-331]. (1st ed. 863 pp. [306-308]).

Kirtland's Warbler is described as having been collected in Minnesota, Wisconsin, Michigan, Missouri, Indiana, Illinois, Ohio, Virginia, South Carolina, and the Bahamas.

245. Jordan, D. S. 1929. Manual of the vertebrate animals of the northeastern United States inclusive of marine species. World Book Co. Yonkers-on-Hudson, NY. 446 pp. [354].

Describes range of Kirtland's Warbler as the eastern United States of America and southern Ontario, Canada, S to Bahama Islands.

246. Amadon, D. 1953. Migratory birds of relict distribution: some inferences. Auk. 70(4):461-469. [463].

Kirtland's Warbler is described as breeding in Michigan and wintering in the Bahamas (no specific information given).

247. Mayfield, H. 1960. The Kirtland's Warbler. Cranbrook Inst. of Sci. Bull. 40. Bloomfield Hills, MI. 242 pp.

Kirtland's Warbler winter habitat is described as "low scrub" (3-4 ft high) during the day and taller, more dense shrubs, near the day time habitat, by night. Some accounts record the bird in broad-leaved habitats rather than pines (the author notes the absence of pines on many Bahama Islands where the bird has been collected). One bird (sex unspecified) 28 Apr 1907 at Cat Cay, Bahamas (D); 1 bird (sex unspecified) 8 Mar between 1935 and 1940 at Inagua, Bahamas (D); other Bahama records (sexes unspecified throughout) include: 1 bird 1879 on Andros Island (S); 3 birds 1891 on Berry Island (S), 2 birds 1891 in the Caicos Islands (S), 1 bird 1891 on Cat Island (S); 2 birds 1884 on Eleuthera Island (S); 5 birds 1891 on Eleuthera Island (S); 3 birds 1897 on Eleuthera Island (S); 1 bird 1891 on Great Abaco Island (S); 2 birds 1886 on Green Cay (S); 1 bird 1902 on Little Abaco Island (S); 28 birds 1884 on New Providence Island (S); 8 birds 1887 on New Providence Island (S); 2 birds 1893 on New Providence Island (S); 5 birds 1897 on New Providence Island (S); 1 bird 1902 on New Providence Island (S); 1 bird 1913 on New Providence Island (S); 4 birds 1886 on New Providence Island (S). Fall migration records include (sexes unspecified throughout) 1 bird Oct 1915 at Point Pelee, Essex Co., Ontario, Canada (S); 1 bird 22 Sep 1929 at Toledo, Lucas Co., Ohio (D); 1 bird 28 Aug 1902 at Oberlin, Lorain Co., Ohio (D); 1 bird 14 Oct 1886 at Cleveland, Cuyahoga Co., Ohio (D); 1 bird 22 Sep 1938, and 1 bird 23 Sep 1941, all at Rocky Mount, Edgecombe Co., North Carolina (?); 1 bird 29 Oct 1903 at Mt. Pleasant, Charleston Co., South Carolina (S); 1 bird 4 Oct 1910 at Christ Church Parish, South Carolina (?); 1 bird 9 Sep 1919 at East Goose Creek, Florida (?); 1 bird 2nd wk of Oct 1841 at sea off Florida (between Abaco and Cuba) (S). Spring migration records include: one bird (sex unspecified) 12 Apr on Cumberland Island, Camden Co., Georgia; ♀ 24 May 1954 on South Bass Island, Ohio (S); immature ♂ 10 May 1959 at Point Pelee, Essex Co., Ontario, Canada (M). Migration habitats are summarized as "thicket", "plum thicket", "ash second-growth thicket", "plum trees", "in bushes and briars", "lower limbs of elm", and "scrub willow".

248. Paynter, R. A., Jr. 1968. Checklist of birds of the world, a continuation of the work of James L. Peters Vol. 14. Mus. Comp. Zoo. Cambridge, Mass. 433 pp. [32].

Gives reference for description of type specimen, and notes range.

249. Coues, E. 1878 reprinted 1974. Birds of the Colorado Valley. Arno Press. New York, N.Y. 807 pp. [249]. (original publication by U.S.G.S. of the Territories, Misc. Pub. No.11.)

One bird (sex unspecified) May 1851 at Cleveland, Cuyahoga Co., Ohio (S); one bird (sex and date unspecified) at Cleveland, (S); one bird (sex and date unspecified) at Racine, Racine Co., Wisconsin (P); one bird (sex and date unspecified) at sea near the Bahamas (S); one bird (sex unspecified) 1877 at Cincinnati, Hamilton Co., Ohio (S); another bird referred to generally in Ohio (S).

250. Potter, J. M., Jr. 1975. Kirtland's Warbler seen in Mecklenburg Co., Virginia. Raven. 46(1):27-29.

One bird (sex unspecified) 1 Sep 1974 at Mecklenburg Co., Virginia, S shore of Kerr Lake 4.5 mi. N of Townsville, North Carolina (D). Author discusses other Virginia records, both at Fort Myer, Alexandria Co., 1 bird (sex unspecified) 25 Sep 1887 (?); 1 bird (sex unspecified) 2 Oct 1887 (?). Also lists Pennsylvania records: 1 bird (sex unspecified) 21 Sep 1971 at Powdermill Nature Reserve, 3 mi. S of Rector, Westmoreland Co., (M); 1 bird (sex unspecified) at 26 Sep 1972 at Somerset Co., (?); 1 bird (sex unspecified) 27 Sep 1964 at Chester Co. (?). Three Rocky Mount, Edgecombe Co., North Carolina records listed: 2 Sep 1936, 22 Sep 1938, and 23 Sep 1941 (each 1 bird, sex unspecified, ?).

251. Kelley, A. H. 1978. Birds of Southeastern Michigan and Southwestern Ontario. Cranbrook Inst. of Sci. Bloomfield Hills, MI. 99 pp. [74].

Kirtland's Warbler is described as a rare migrant. ♂ 10 May 1953 at Point Pelee, Essex Co., Ontario, Canada (?); 1 bird (sex unspecified) 10 May 1959 at Point Pelee (M); immature ♂ 24 Sep 1965 at Cranbrook Institute, Oakland Co., Michigan (M); immature ♂ 7 Aug 1973 near Davisburg. Oakland Co., Michigan (?).

252. Trautman, M. B. 1979. Experiences and thoughts relative to the Kirtland's Warbler. Jack-Pine Warbler. 57(3):135-140.

The author speculates that hurricanes may have caused apparent decline in Kirtland's warbler numbers between 1927 and 1934.

253. King, W. B., compiler. 1981. Endangered birds of the world, the ICBP bird red data book. V.2. Smith. Inst. Press in coop. with the Int. Coun. for Bird Preserv. Washington, D.C.

Kirtland's Warbler is described as breeding in Michigan and wintering in the Bahamas, having been recorded from most of the larger islands (no specific information). Adult ♂ and a 2nd bird (possibly an immature ♂) Nov 1977 at Veracruz, Mexico (?).

254. American Ornithologist's Union. 1983. Check-list of North American Birds, 6th ed. Amer. Ornith. Union. 876 pp. [616-617].

Kirtland's Warbler recorded as breeding in Michigan, wintering throughout the Bahamas. Migration records given generally from: Illinois, Ohio, W., Pennsylvania, SW Quebec/Canada, Minnesota, Missouri, Kentucky, W. Virginia, Alabama, Georgia, Florida and Veracruz, Mexico.

255. Hutton, E., Jr. 1984. The origin of migration of some bird species. Redstart 51(3):99-102.

Describes very generally the migration route of Kirtland's warbler.

256. Probst, J. R. 1985. Summer records and management implications of Kirtland's Warbler in Michigan's upper peninsula. Jack-Pine Warbler. 63(1):9-16.

♂ 9 Jul 1982 near Gwinn, Marquette Co., Michigan (P); ♂ 5 Jun 1983 near Gwinn (D); 4 birds in Wisconsin, 2 in Ontario, 1 in Quebec (all mentioned without specific information); ♂ (number and location unspecified) 1916 in Ontario; other records outside migration route discussed generally (from Ontario, Illinois, Missouri, Minnesota, Virginia, Wisconsin, and Minnesota).

BAHAMAS

257. Cory, C. B. 1879. Capture of Kirtland's warbler (Dendroeca kirtlandi) in the Bahama islands. Bull. of the Nuttall Ornith. Club. 4(2):118.

♀ 9 January--1879?--at Hawk's Nest on Andros Island, Bahamas (S). (282,283)

258. Maynard, C. J. 1884. A new catalog of bird's skins, nests, and eggs obtained on the Bahamas by C.J. Maynard. (this sale catalog was published by the author and was unavailable for review).

This catalog is described in The Auk. (1885. 2(1):115) and in Published Writings of C.J. Maynard (Batchelder, C.F. 1951. Jour. of the Soc. for the Bibliog. of nat. hist. 2(7):229). Maynard collected several rare species in the Bahamas, including an unknown number of Kirtland's Warblers. No specific information is provided in the two reference sources. (ANSP,AMNH,AMCZ)

259. Cory, C. B. 1891. List of the birds collected by C.L. Winch in the Caicos Islands and Inagua, Bahamas, during January and February, and in Abaco, in March, 1891. Auk. 8(3):295-298. [295,297].

Two birds (sexes unspecified) January and February 1891 in the Caicos Islands, Bahamas (S). Also reported "not uncommon" in Rum Cay (no specific information). One bird (sex unspecified) Mar 1891 on Abaco Island, Bahamas (S). One bird (sex unspecified) between 3 and 20 April 1891 on the Berry Islands, Bahamas (S).

260. Ridgway, R. 1891. List of birds collected on the Bahama Islands by the naturalists of the Fish Commission Steamer Albatross. Auk. 8(4):333-339. [337,338].

Four birds (sexes unspecified) 4-9 Mar 1886 at Watling's Island, Bahamas (S); 2 birds 12 Apr 1886 at Green Cay, Bahamas (S), (AMNH, USNM).

261. Bangs, O. 1900. Notes on a collection of Bahama birds. Auk. 17(3):283-293. [292].

Two adult ♂ 5 Apr 1897 at Nassau, New Providence Island, Bahamas (S); ♀ 4 Mar 1897 at Nassau.

262. Bonhote, J. L. 1903. On a collection of birds from the northern islands of the Bahama group, Ibis. 8th series. 3(11):272-315. [280-281].

♂ 25 Mar 1902 at Little Abaco, Bahamas (S); ♂ Apr 1902 at Nassau, New Providence Island, Bahamas (sex uncertain, specimen badly shot) (S).

263. Cooke, W. W. 1905. The winter ranges of the warblers (Mniotiltidae). Auk. 22(3):296-299. [298].

Kirtland's Warbler is described as wintering in the Bahamas and occurring in migration in the southeastern United States of America.

264. Townsend, C. H. 1927. Old times with the birds: autobiographical. Condor. 29(5):224-232. [227].

One bird (sex unspecified) 1886 in the Bahamas (S).

265. Hellmayr, C. E. 1935. Catalogue of birds of the Americas and the adjacent islands in the Field Museum of Natural History. Field Mus. of Nat. Hist. Pub. 347. Zoo. Ser. 13(8). 541 pp. [407-408].

Kirtland's Warbler is described as wintering in the Bahamas S to the Caicos islands, and recorded in migration from Minnesota, Ohio, Illinois, Indiana, Missouri, Virginia, South Carolina, Georgia and Florida (one bird from Jupiter Inlet, sex and date unspecified). Bahama records are cited generally from Abaco, Berry, Nassau, New Providence, Andros, Eleuthera, and the Caicos islands. No more specific information is given.

266. Bond, J. 1947. Field guide to birds of the West Indies. MacMillan Company. New York. 257 pp. [189-190].

Kirtland's Warbler is described as breeding in Michigan and wintering in the Bahamas (13 Nov-23 Apr). These wintering dates differ from Bond (1956).

267. Van Tyne, J. and H. Mayfield. 1952. Bird records from New Providence and Eleuthera Islands, Bahamas. Occ. Paper No. 538 of the Museum of Zoology, Univ. of Michigan, Ann Arbor. 4 pp. [1].

Despite "careful search in every sort of habitat" the authors failed to find the Kirtland's Warbler, one of the major objectives of their field work.

268. Bond, J. 1956. (1st ed. 1940). Check-list of birds of the West Indies, 4th ed. Acad. of Nat. Sci. of Philadelphia. 214 pp. [152-153]. (1st ed.:184 pp. [131-132]).

Kirtland's Warbler is described as wintering (Oct- 5 May) in the Bahama Islands, recorded from Abaco, Little Abaco, Bimini, Cat Cay, Andros, Green Cay, Berry Islands, New Providence (inc. Athels Island), Eleuthera, Cat, Watling, Inagua, and the Caicos islands (?). In the second supplement to this checklist (1957) Bond states "there is no record of this warbler from Bimini".

269. Bond, J. 1957. Second supplement to the check-list of birds of West Indies (sic). (1956). The Acad. of Nat. Sci. Philadelphia, PA. 14 pp. [9].

One bird (sex and date unspecified) at Cat Cay, Bahamas (D); 1 bird (sex unspecified) at Harbour Island, Bahamas (?).

270. Mayr, E. 1953. Additional notes on the birds of Bimini, Bahamas. Auk. 70(4):499-501. [501].

Reports that "no Kirtland's Warblers were observed despite diligent search".

271. Bond, J. 1961. Sixth supplement to the check-list of birds of the West Indies (1956). The Acad. of Nat. Sci. Philadelphia, PA 12 pp. [11].

Three birds (sexes unspecified) 19 Nov 1960 at Grand Bahama Island, Bahamas (?). (275)

272. Challinor, D., Jr. 1962. Recent sight record of Kirtland's warbler in the Bahamas. Wils. Bull. 74(3):290.

♂ 27 Mar 1957 on Hog Island (now Paradise Island), across the harbor from Nassau, Bahamas (D). (275)

273. Grantz, C. C. 1963. More birds listed for Grand Bahama. Fla. Nat. 36(3):78.

One bird (sex unspecified) Dec 1962 5 mi. W of Freeport, Grand Bahama Island, Bahamas (?). (274,275,282)

274. Bond, J. 1964. Ninth supplement to the check-list of birds of the West Indies (1956). The Acad. of Nat. Sci. Philadelphia, PA 13pp. [10].

One bird (sex unspecified) late Dec 1962 at Grand Bahama Island, Bahamas (?). One bird (sex unspecified) Nov 1963 at Grand Bahama Island (?). (273,275,282)

275. Hundley, M. H. 1967. Recent wintering records of the Kirtland's Warbler. Auk. 84(3):425-426.

Generally discusses old records (1870 to 1919). Also noted: One bird (sex unspecified) 28 Apr 1907 on Cat Cay, Bahamas (D); 1 bird (sex unspecified) between 1935-1940 on Inagua, Bahamas (D); ♂ 27 Mar 1957 on Hog Island, near Nassau, Bahamas (D); 3 birds (sexes unspecified) 26 Feb 1941 on New Providence, Bahamas (?). The following records are all from Grand Bahama Island, Bahamas, and all classified as (D); 1 bird (sex unspecified) 14 Nov 1959; 3 birds (sexes unspecified) 19 Nov 1960; 1 bird (sex unspecified) late Dec 1961; 1 bird (sex unspecified) 24 Nov 1962; 1 bird (sex unspecified) 16 Nov 1963; 2 birds (sexes unspecified) 13 Nov 1964; 2 birds (sexes unspecified) 16 Oct 1964; and 2 birds (sexes unspecified) 22 Oct 1966. From Eleuthra Island, Bahamas, all (D): 1 bird (sex unspecified) 11 Nov 1961; and 1 bird (sex unspecified) 30 Nov 1963. Other recent Grand Bahama Island records, all (?), include: 2 birds (sexes unspecified) Dec 1961; 5 birds (sexes unspecified) 12 Feb 1964; 2 birds (sexes unspecified) 24 Mar 1964; 1 bird (sex unspecified) 27 Mar 1964; 1 ♂ 1 ♀ 27 Apr 1964; 1 bird (sex unspecified) 5 Aug 1964; 2 ♂ 1 ♀ 29 Aug 1964; 3 birds (sexes unspecified) 2 Oct 1964; 1 ♂ 1 ♀ 27 Nov 1964; ♂ 9

Feb 1965; ♂ 15 Feb 1965; 3 birds (sexes unspecified) 17 Feb 1965;
2 birds (sexes unspecified) 21 Oct 1966. (271,272,273,274,282)

276. Bond, J. 1968. Thirteenth supplement to the check-list of birds of the West Indies (1956). The Acad. of Nat. Sci. Philadelphia, Pa 12 pp. [8,10].

One---?---bird (sex unspecified) 9, 11 Nov 1967 at Great Abaco, Bahamas (?); one bird (sex unspecified) 16 Nov 1967 at Fresh Creek, Andros Island, Bahamas (?); one bird (sex unspecified) 30 Mar 1968 at Fresh Creek (?).

277. Bond, J. 1968. Thirteenth supplement to the check-list of birds of the West Indies. (1956). The Acad. of Nat. Sci. Philadelphia, Pa 12pp. [8,10].

One bird (sex unspecified) 27 Aug 1967 at Hog Island, Bahamas (D);
1 bird (sex unspecified) 5 Aug 1967 at Grand Bahama Island (P). (279)

278. Robertson, W. B., Jr. 1968. Regional reports; the spring migration, April 1 to May 31, 1968, Florida region. Aud. Field Notes. 22(4):516-520. [519].

One bird (sex unspecified) 30 Mar and 6 Apr 1968 at Fresh Creek, Andros Island, Bahamas (D).

279. Wallace, G. J. 1968. Another August record of Kirtland's Warbler on its wintering grounds. Jack-Pine Warbler. 46(1):7.

Adult ♀ 27 Aug 1967 at Paradise Beach, across the bay from Nassau, New Providence Island, Bahamas (D). Author discusses other early records: One bird (sex unspecified) 5 Aug on Grand Bahama island; three birds (sex unspecified) 29 Aug on Grand Bahama Island; one bird (sex and date unsepcified) on Hog Island (now Paradise Island) (all ?). (277)

280. Bond, J. 1969, Fourteenth supplement to the check-list of birds of the West Indies. The Acad. of Nat. Sci. Philadelphia, PA 10pp. [8].

One bird (sex unspecified) winter or early spring 1969 Freeport, Grand Bahama Island, Bahamas (M).

281. Robertson, W. B., Jr. 1971. Regional reports: the fall migration, Aug 16 to Nov 30, 1970, Florida region. Am. Birds. 25(1):44-49. [48].

One bird (sex unspecified) 20 Aug 1970 at Nassau airport, New Providence Island, Bahamas (D).

282. Mayfield, H. F. 1972. Winter habitat of Kirtland's Warbler. Wilson Bull. 84(3):347-349.

Records from the Bahamas (no specific information) and recent difficulties in finding Kirtland's Warbler on the wintering grounds are discussed. Some records are given to illustrate the bird's habitat preferences: one bird (sex unspecified) 9 Jan 1879 at

Andros Island, Bahamas (S): 1 bird (sex unspecified) 27 Dec 1965 at Watling Island (San Salvador) (S); 1 --?--bird (sex unspecified) between 1935 and 1940 at Inagua, Bahamas (D); 1 bird (sex and date unspecified) on Eleuthera Island, Bahamas (D); 2 birds (sexes and dates unspecified) on Paradise Island, Bahamas (formerly Hog Island) (D): 1 bird (sex unspecified) Nov 1959 on Grand Bahama Island, Bahamas (D): 1 bird (sex unspecified) 28 Dec 1969 at West End, Grand Bahama Island (D): 1 bird (sex unspecified) Apr 1969 on Grand Bahama Island (M). (257,273,274,283)

283. Radabaugh, B. E. 1974. Kirtland's Warbler and its Bahama wintering grounds. *Wilson Bull.* 86(4):374-383.

♀ 1879 (date unspecified) on Andros Island (S); 1 bird (sex unspecified) 1902 on New Providence Island (S): 1 bird (sex unspecified) 1902 on Little Abaco Island (S); 1 bird (sex and date unspecified) 1913 and another (possibly) 1915 on New Providence Island (S); 1 bird (sex and date unspecified) 1965 on San Salvador (formerly Watling's Island) (S); 1 bird (sex unspecified) between 1935-1940 on Great Inagua Island, Bahamas (D); 3 birds (sexes and date unspecified) 1941 on New Providence Island (?); 1 bird (sex and date unspecified) 1957 on Hog Island (now Paradise Island) (D); 13 birds (sexes and dates unspecified) 1959-1966 on Grand Bahama Island (?); 2 birds (sexes and dates unspecified) 1959-1966 on Eleuthera Island, Bahamas (?); 3 birds (sexes and date unspecified) 1967-1971 on Andros Island, Bahamas (?); 1 bird (sex and date unspecified) 1970 on Andros Island (?); 5 birds (sexes and dates unspecified) 1970-1974 on Grand Bahama Island (3 D and 2 M); ♂ 11, 12, and 22 Mar 1972 on Crooked Island, Bahamas (D). (257,282,AMNH,AMCZ)

284. Brudenell-Bruce, P. G. C. 1975. *The birds of the Bahamas*. Taplinger Pub. Co. New York. 143 pp. [109].

Kirtland's Warbler is classified as a rare winter visitor, from October to 5 May.

285. Bond, J. 1976. Twentieth supplement to the check-list of birds of the West Indies. *The Acad. of Nat. Sci. Philadelphia, Pa.* 14 pp. [11].

♂ 11-22 Mar 1972 at Crooked Island, Bahamas (D).

286. Clench, M. H. 1978. Search ends: a Kirtland's at last. *Bull. Aud. Soc. of W. Pa.* 42(10):1,8.

♀ late January 1978 at North Caicos Island, British West Indies (D). One bird (sex unspecified) 21 Sep 1971 at Powdermill Nature Reserve, Westmoreland Co., Pennsylvania (M).

287. Bond, J. 1980. Twenty-third supplement to the check-list of birds of the West Indies. *The Acad. of Nat. Sci. Philadelphia, PA.* 14 pp. [9].

One bird (sex and date unspecified) at Grand Bahama Island, Bahamas (M).

288. Bond, J. 1982. Twenty-fourth supplement to the check-list of birds of the West Indies. The Acad. of Nat. Sci. Philadelphia, PA. 15 pp. [12].
 ♀ 10 Feb 1978 at North Caicos Island, British West Indies (D).
289. Connor, H. A. and R. W. Loftin. 1985. The birds of Eleuthera Island, Bahamas. Fla. Field Nat. 14(4):77-93. [92].
 Lists Kirtland's Warbler as a species previously reported (Bond 1957) but not located in this study.
290. Faanes, C. A. 1985. Memorandum to the director of Patuxent Wildlife Research Center, Laurel, Md: summary of field work on Kirtland's Warbler winter ecology. 7 pp.
 ♀ 30 Jan 1985 on New Providence Island (D). ♂ 2 Feb 1985 on Paradise Island, Bahamas (D); ♂ 10 Feb 1985 on South Caicos Island, British West Indies (D); 2 ♂ and 1 ♀ 11 Feb 1985 on Grand Turk Island, British West Indies (D); ♂ 20 Feb 1985 on Eleuthera Island, Bahamas (D); ♂ 7 Mar 1985 on Grand Turk Island (D); ♀ 13-14 Mar 1985 in the Dominican Republic, Hispaniola (D); ♀ 1 Apr 1985 on Inagua, Bahamas (D); ♂ 2 Apr 1985 on Inagua, Bahamas (D).
291. Anon. year unknown. A Kirtland's Warbler sighting on Eleuthera. Bahamas Nat. Trust News and Activities. pages 32-32.
 One bird (sex unspecified) 9 Nov 1975 at Eleuthera, Bahamas (D); 1 ♂ (date unspecified) at Crooked Island (?).

MUSEUM RECORDS

The Academy of Natural Sciences, Philadelphia, Pennsylvania (ANSP). Study skins of Kirtland's Warbler collected during migration or wintering as of 3 Sep 1986. pers. comm. from M. Robbins. Museum collection numbers provided following the description of each specimen.

♂ 1 Feb 1884 at Nassau, New Providence, Bahamas (2035); ♂ 15 Mar 1884 at Nassau (176337); ♀ 1 Feb 1884 at Nassau (176338); 1 bird (sex unspecified) 20 Nov 1890 on Cat Island, Bahamas, "shot in scrub near beach" (48134). (258)

American Museum of Natural History (AMNH). New York, New York. Study skins of Kirtland's Warbler collected during migration or wintering as of 12 Aug 1986. pers. comm. from A.V. Andors. Museum collection of numbers provided following the description of each specimen.

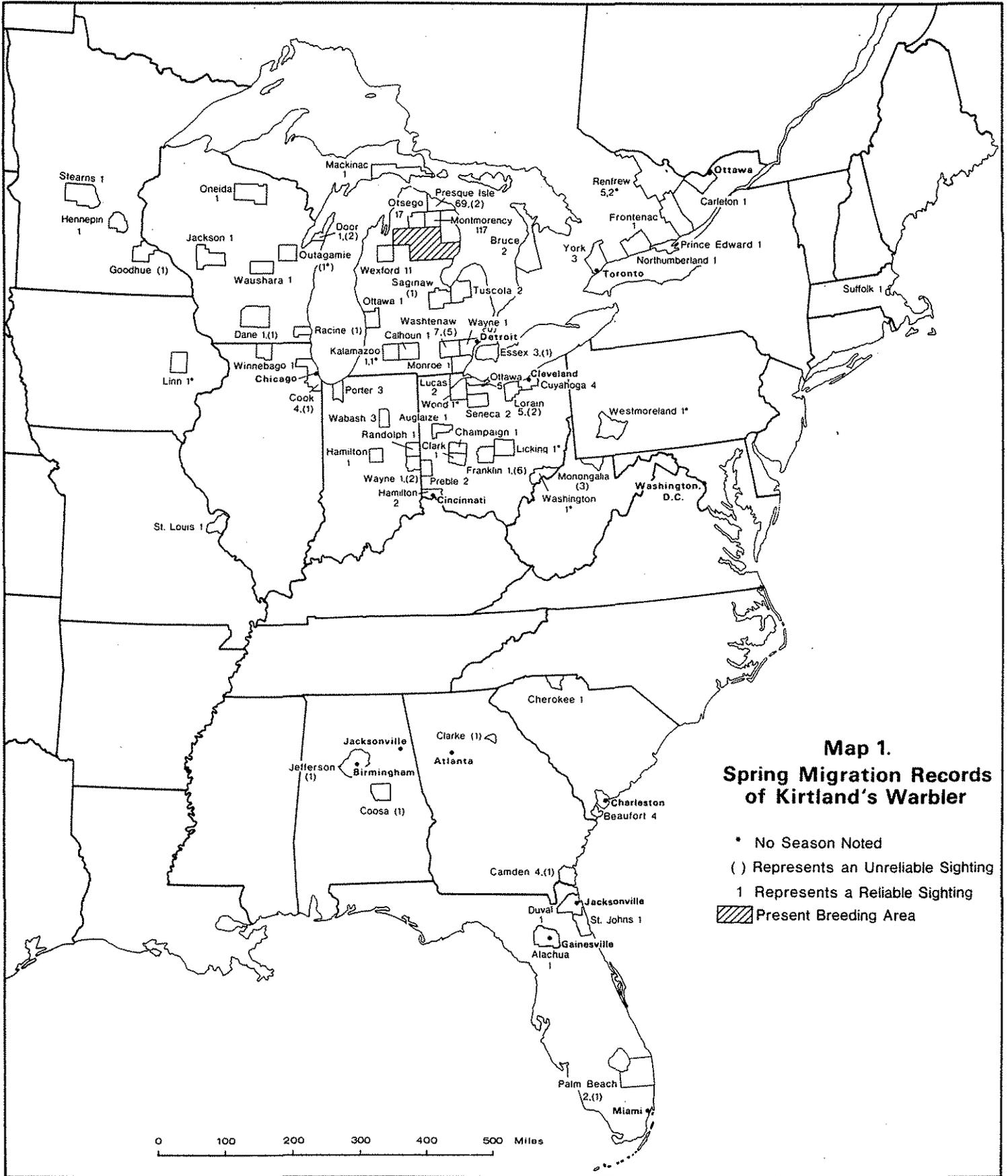
♂ 15 Mar 1884 at Nassau, New Providence Island, Bahamas (1571); ♂ 10 Jan 1884 at Nassau (26747). ♂ 19 Feb 1884 at Nassau (29779); 1 bird (sex unspecified) 4 Mar 1886 on Watlings Island, Bahamas (39821); adult ♂ 17 Mar 1884 at Nassau (85415); ♂ 25 Mar 1902 on Little Abaco Island, Bahamas (507264). (258,260,283)

Museum of Comparative Zoology - The Agassiz Museum (AMCZ). Harvard University, Cambridge, Massachusetts. Study skins of Kirtland's Warbler collected during migration and wintering as of 13 Aug 1986, pers. comm. from R.A. Paynter, Jr. Museum collection numbers provided following the description of each specimen.

One bird (sex and date unspecified) at sea between Cuba and Abaco, Bahamas (72236); ♂ 5 May 1897 on Athel's Island, Bahamas (247705); ♂ and ♀ 20 Apr 1897 on Eleuthera Island, Bahamas (247704, 142324); ♂ 22 Apr 1884 on Eleuthera (142323); ♂ 12 Feb 1884 at Nassau, New Providence Island, Bahamas (209938); ♂ 22 Mar 1884 at Nassau (213738); ♂ 27 Apr 1886 near Frogmore, South Carolina (212555); ♀ 23 Mar 1893 at Nassau (46237); ♂ 31 Mar 1893 at Nassau (46236); ♀ 4 Mar 1897 at Nassau (103458); ♂ 5 Apr 1897 at Nassau (103457); ♀ 5 Mar 1913 at Nassau (63660). (230,268,185,196,283)

U.S. Dept. of the Interior Fish and Wildlife Service National Museum of Natural History (USNM). Study skins collected during migration and wintering of Kirtland's Warbler as of 12 Aug 1986. pers. comm. from M.R. Browning. Catalog numbers provided in parenthesis following description of each specimen.

Immature ♂ 13 May 1851 near Cleveland, Cuyahoga Co., Ohio (4363=3736); ♀ 15 May 1871 at Ann Arbor, Michigan (83013); ♀ 16 May 1871 at Ann Arbor (79089); ♀ 4 May 1880 at Cleveland (80000). ♂ 11 May 1883 at Battle Creek, Michigan (100049); ♂ 4 Mar 1886 on Watling Island, Bahamas (107968); 2 ♀ 8 Mar 1886 on Watling Island, Bahamas (107966, 107967); ♀ 24 Mar 1887 on New Providence Island, Bahamas (274846); ♂ 18 Apr 1887 at New Providence (115036); ♀ 23 Apr 1887 at New Providence (274848); ♂ 25 Apr 1887 at New Providence (274849); ♂ 1 May 1893 at Wabash, Wabash Co., Indiana (565180). ♂ 22 May 1899 at Morgan Park, Cook Co., Illinois (191800); ♀ 12 Apr 1902 on Cumberland Island, Georgia (564372); ♂ 26 Apr 1905 on Cumberland Island, Camden Co., Georgia (564373); ♂ 27 Sep 1975 at Cincinnati, Hamilton Co., Ohio (527827); ♂ (date unspecified) on New Providence, Bahamas (274850). (138,146,162,71,72,73,75,80,95,141,10,74,78,117,260,56,50,53,41,42,43,44,46,169,170,171,173,247,242,241,236,234,232,231,230)



Stearns 1

Hennepin 1

Oneida 1

Jackson 1

Goodhue (1)

Waushara 1

Dane 1(1)

Linn 1*

Winnebago 1

Chicago

Cook 4(1)

St. Louis 1

Mackinac

Door 1(2)

Outagamie (1)*

Wexford 11

Ottawa 1

Kalamazoo 1,1*

Porter 3

Hamilton 1

Wayne 1(2)

Hamilton 2

Cincinnati

Presque Isle 89(2)

Montmorency 117

Bruce 2

Tuscola 2

Washtenaw

Wayne 1

Calhoun 17(5)

Monroe 1

Franklin 1(6)

Preble 2

Washington 1

Renfrew 5,2*

Frontenac 1

York 3

Essex 3(1)

Ottawa 1

Lucas 2

Wend 1*

Seneca 2

Champaign 1

Licking 1*

Franklin 1(6)

Monongalia (3)

Washington 1

Ottawa

Carleton 1

Prince Edward 1

Northumberland 1

Toronto

Suffolk 1

Westmoreland 1*

Washington D.C.

Jefferson (1)

Birmingham

Coosa (1)

Cherokee 1

Clarke (1)

Atlanta

Camden 4(1)

Duval

Alachua 1

Gainesville

Palm Beach 2(1)

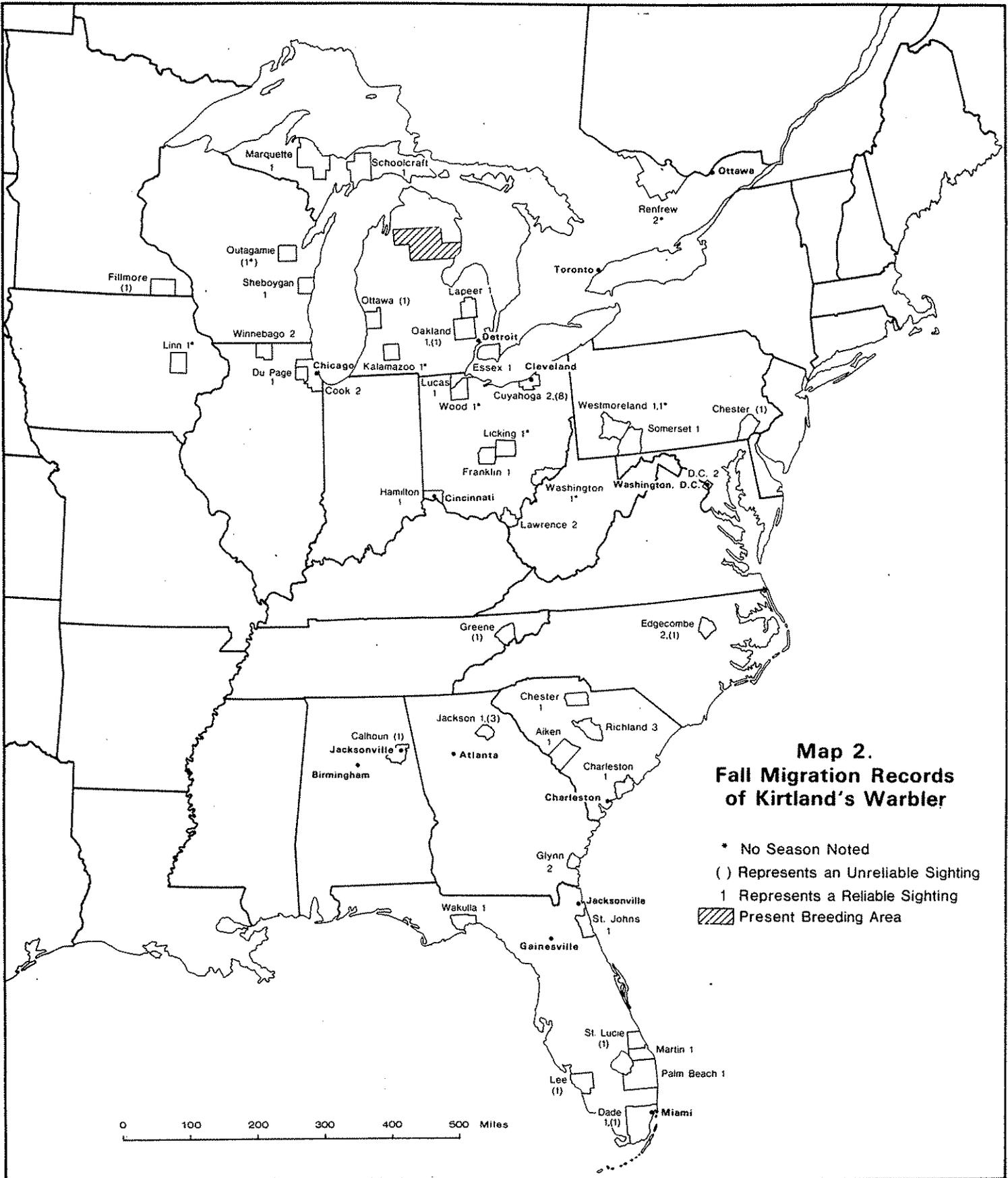
Miami

St. Johns 1

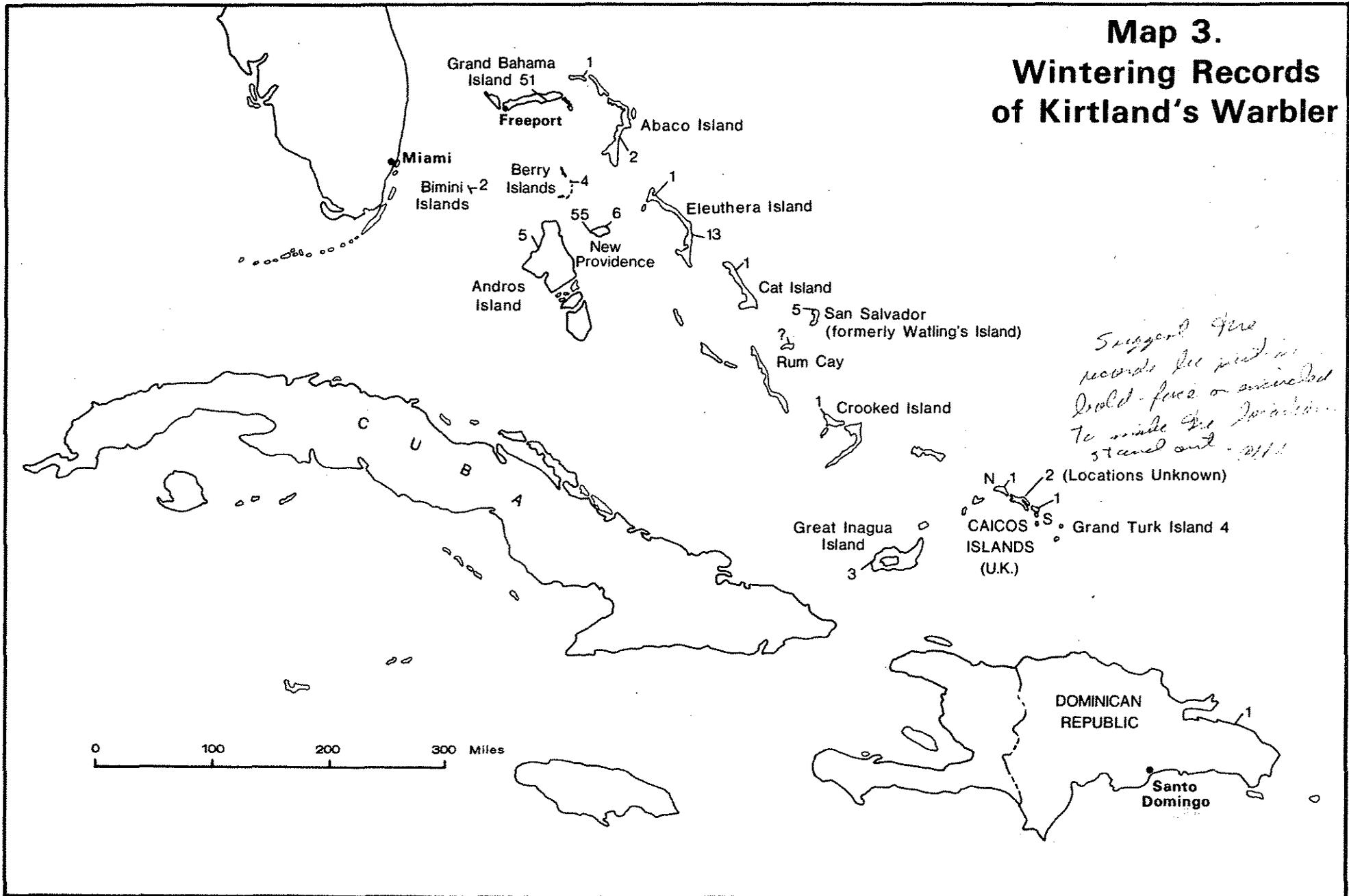
Jacksonville

Charleston

Beaufort 4



Map 3. Wintering Records of Kirtland's Warbler



In addition to the BioAbstracts and Zoological Record databases, the following periodicals have been manually searched for records of Kirtland's Warbler for this bibliography. Numbers for 1986 have been searched up to Sept. 1986. This list is in loose alphabetical order:

<u>periodical</u>	<u>vois.</u>	<u>years</u>
Alabama Academy of Science, Journal	1-56	1924-1985
American Museum Novitates	#1-2837	1921-1985
Alabama Birdlife	1-29	1953-1982
American Birds (was Aud. Field Not.)	1-39	1947-1985
Auk	1-103	1884-1986
American Naturalist	1-126	1868-1985
Amer. Mus. Nat. Hist. Bull.	1-182	1881-1986
Audubon (was Bird-Lore)	1-87	1899-1985
Bull. of the Mass. Audubon Soc.	1-53	1939-1971
Birding	1-15	1969-1983
Biological Soc. of Washington Proc.	1-98	1880-1985
Birds and Nature (was Birds)	1-14	1897-1903
Chicago Academy of Sci. Bull.	5-10 +	1934-1958
Chicago Acad. of Sci. Nat. Hist. Misc.	#1-215	1946-1982
Chicago Acad. of Sci. Spec. Pubs.	#3-14	1911-1959
Connecticut Acad. of Arts & Sci., New Haven, Transactions	5-26, 46	1878-1975
CT Acad. of Arts & Sci Memoirs	2-20	1910-1982
The Chat	1-48	1937-1983
Cleveland Bird Calendar	37-40	1940-1944
The Condor	1-88	1899-1986
Canadian National Mus. Bull.	#1-235	
Canadian Naturalist (was Can. Aud.)	16-31	1954-1989
Canadian Field-Nat. (was Ottawa Nat.)	1-98	1887-1984
Chicago Naturalist	1-10	1938-1946
Canadian J. of Zoology	29-64	1951-1986
Cincinnati Soc. of Nat. Hist. Journal	4-22	1881-1917
Chicago Field Mus. of Nat. Hist. Fieldiana: Zoology	2-73 n.s. 1-28	1901-1979 1979-1985
Florida Acad. of Sci. Proc. (was Florida Scientist)	1-48	1936-1985
Florida Naturalist	13-56	1939-1983
Florida Field-Naturalist	1-14	1972-1983
Flower and Feather	2-28	1946-1972
Georgia Acad. of Sci. Bull.	1-42	1943-1984
Illinois St. Acad. of Sci. Trans.	1-78	1908-1985
Indiana Acad. of Sci. Proceedings	1-93	1891-1981
Indiana Audubon Quarterly	40-64	1962-1986
Int. Ornith. Cong. Proceedings		1965-1974
Illinois Nat. Hist. Survey Bull.	11-33	1915-1985
Journal of Nat. Hist.	1-19	1957-1985
The Jack-Pine Warbler	14-63	1936-1985
J. of Field Ornith. (was Bird-Banding)	1-56	1930-1985
The Loon (was The Flicker)	1-58	1929-1986

The Migrant	6-53	1935-1982
Papers of the Mich. Acad. of Sci., Arts & Letters	1-53	1921-1967
Mich. Acad. of Sci., Arts & Letters Ann. Report	1-71	1899-1967
Mich. Academician	1-17	1969-1985
Minn. Acad. of Sci. Proceedings	1-50	1933-1985
Mich. Ag. Expt. Sta. Bull.	1-48	1918-1966
Minn. Ag. Expt. Sta. Bull.	1-474	1888-1982
National Acad. of Sci. Proc.	1-83	1863-1986
North Carolina Ag. Expt. Sta. Bull.	2-277	1891-1984
The Oriole	1-50	1936-1982
Ohio Ag. Expt. Sta. Bull.	#1-1172	1888-1985
The Oologist	1-58	1884-1941
Passenger Pigeon	3-48	1941-1986
The Raven	15-54	1944-1983
The Redstart	29-56	1962-1986
St. Louis Acad. of Sci. Trans.	1-31	1856-1958
Smithsonian Inst. Misc. Coll.	1-159	1862-1968
Smithsonian Contr. to Knowledge	1-35	1848-1916*
U. S. Bureau of Bio. Surv. N.A. Fauna	#1-69	1889-1971
U.S.D.A. Biological Survey	1-30	1889-1907
Wisc. Ag. Expt. Sta. Bull.	#16-553	1888-1961
West Va. Ag. Expt. Sta. Bull.	1-692	1888-1985
The Wilson Bulletin	C.S.G., n.s. 1, 13-98	1894-1986

*Although this precedes the species description, it was searched for possible accounts of Cabot's expedition.



THE UNIVERSITY OF GEORGIA
SCHOOL OF FOREST RESOURCES
ATHENS, GEORGIA 30602

December 16, 1986

MC-23-L

Smithsonian Museum
U.S. Nat. Museum of Natural History
Washington, D.C. 20240

Dear Sirs:

Thanks very much for the information you provided earlier this year. In return for your assistance, please accept the enclosed report. I hope this bibliogrpahy will be of some use.

Yours,

Amy Stone

Amy Stone

