NOTES ON THE ORNITHOLOGY OF CLAY AND PALO ALTO COUNTIES, IOWA.

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Plates XI–XII.

The following paper is based upon material secured by the University of Michigan-Walker Expedition to northwestern Iowa in the summer of 1907. The field notes are those of Alexander G. Ruthven, who has also supplied the general summary of the habitat distribution and has assisted in the preparation of the paper. The field work was done by Drs. Ruthven and Max M. Peet, and covered the period between July 1 and September 1. Three papers² have appeared on the results of this work.

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The investigations were confined to the townships of Sioux, Riverton, Lake, Freeman and Logan in Clay County and Highland and Lost Island in Palo Alto County. These townships are in the adjacent parts of the two counties (Fig. 1). 334 skins, 12 nests and 8 sets of eggs, representing 86 species were secured, to which have been added by purchase seven specimens, representing five species. Most of the stomachs were preserved for future study.

HABITATS.

A description of the region has been given by Ruthven,¹ and it will be sufficient to quote the following general account of the habitats. "Owing to the relief there is more diversity in the biotic environments of the region investigated than is usual in the prairie-plains region. The ridges and knobs, varying in height, are separated by small areas of flat or gently rolling prairie, and everywhere are lakes, ponds and sloughs of various sizes. The immediate area studied was on the water-shed between the Missouri and Mississippi river systems, the lakes examined being the source of streams tributary to the different systems."

Ruthven has classified the different habitats as follows:

UPLAND.

Upland Prairie. Uncultivated areas, covered by the original vegetation of grasses and herbs, are still to be found on some of the ridges. These areas are, however, becoming fewer in number yearly, as more land is placed under cultivation. (Plate XI, Fig. 1.)

Grain Fields. The greater part of the higher land has, within the past thirty years, been placed under cultivation, and this has been mostly at the expense of the upland prairie areas.

Groves. In many places groves of soft maple, cottonwood, wil-

¹ Ruthven, Alexander G., Contributions to the Herpetology of Iowa, p. 200.
low, and box-elder have been planted on the uplands. These are so open, however, as to have no appreciable effect on the terrestrial vertebrate fauna, with the exception of the birds, the local distribution of which they are profoundly modifying.

LOWLAND.

Lowland Prairie (Meadows). The low, generally poorly drained, areas have in many instances been reserved for hay-land or pasture. In some places the original vegetation has been supplanted by tame grasses; in other places it remains undisturbed. The original vegetation consists of a dense growth of tall grasses and herbaceous forms. (Plate XI, Fig. 2.)

Swamps (Sloughs). The swamps are mostly devoid of trees and filled with a rank growth of grasses and sedges. The vegetation grows principally in clumps and on hummocks composed of roots and decaying vegetation. They are mostly uninfluenced by man, except as they are drained.

Shores of Lakes and Streams (Marginal Forests). This habitat supports the only natural timber in the region, and, where undisturbed, there is always a comparatively dense growth along the shores of the streams and larger lakes. The timber zones are, however, much narrower, and the trees more scrubby, than in the southern parts of the state. In most places at the present time this timber has been largely removed. (Plate XII, Fig. 1.)

AQUATIC.

The aquatic life is found in the lakes, ponds, sloughs and streams. The conditions in these habitats are very similar, as the lakes are for the most part shallow and the streams slow-flowing. (Plate XII, Fig. 2.)
1. Upland Prairie, Clay County, Iowa.
2. Low Meadow, Clay County, Iowa.
LOCAL DISTRIBUTION OF BIRDS.

As was to be expected the birds may be divided rather sharply into five groups — woodland, prairie, meadow, aquatic (including waders), and marsh forms. There is some overlapping because some of the prairie forms will nest in the groves, some of the marsh forms feed on the prairie, and some of the woodland forms nest on fence posts, telegraph poles, etc., on the prairie and may feed there, but the five groups are nevertheless rather well defined. The more common species and the major habitats which they frequent are as follows:

**Woodlands** (Starred species only observed as migrants): Mourning Dove, Flicker, Kingbird, Phebe, Robin, Bluebird, Bob-white, Long-eared Owl, Screech Owl, Black-billed Cuckoo, Yellow-billed Cuckoo (marginal forests only), Downy Woodpecker, Red-headed Woodpecker, Least Flycatcher, Alder Flycatcher, Blue Jay (marginal forests only), Orchard Oriole, Baltimore Oriole, Bronzed Grackle, Goldfinch, Rose-breasted Grosbeak, Warbling Vireo, Black and white Warbler*, Yellow Warbler, Wilson’s Warbler*, Catbird, Brown Thrasher, Parkman’s Wren, Long-tailed Chickadee, Bay-breasted Warbler*, Song Sparrow, Cowbird.

**Prairies**: Prairie Chicken, Upland Plover, Flicker, Nighthawk, Arkansas Kingbird, Prairie Horned Lark, Dickcissel, Western Grasshopper Sparrow, Migrant Shrike, Bluebird, Short-eared Owl, Kingbird, Tree Swallow.

**Meadows**: Bobolink, Dickcissel, Marsh Hawk, Short-eared Owl, American Bittern, Meadowlark.

**Swamps**: Black Tern, American Bittern, Least Bittern, King Rail, Virginia Rail, Sora Rail, Yellow-headed Blackbird, Red-winged Blackbird, Swamp Sparrow, Maryland Yellow-throat, Prairie Marsh Wren, Short-billed Marsh Wren.

**Aquatic Habitats and Beaches** (Starred species only observed as migrants): Semipalmated Plover*, Stilt Sandpiper*, Pectoral Sandpiper*, Least Sandpiper*, Solitary Sandpiper*, Spotted Sandpiper, Yellowlegs*, Greater Yellowlegs*, Killdeer, Pied-billed Grebe, Blue-winged Teal, Shoveller, Great Blue Heron, Green Heron, Florida Gallinule, Coot, Kingfisher.
It will be noted that no division into grove and natural woodland forms is attempted in the above grouping, and an inspection of the data given in the list of species will show that this is because no differences in the faunas of the two habitats are apparent. The groves (which have in every instance been planted) are profoundly influencing the local distribution of the woodland forms. Formerly the only trees in the region were about the lakes and streams, but the narrow zones of original woodland are rapidly being cleared, which would probably eliminate a number of species if it were not for the fact that the groves and the trees that have been planted along the roads serve as refuges. As it is, there is apparently a congestion of the woodland species. In one grove about one hundred yards square, grouped about farm buildings, and composed of low box elders and willows and well cleared of underbrush, sixteen species of birds were found nesting and a number of these were represented by several pairs. It is evident that the low trees, lack of underbrush, and the location of this grove must have constituted unfavorable conditions for nesting birds, and to these was added the presence of scores of English Sparrows which also nested in the trees. A more careful study would probably show further that many of the woodland species are forced to the prairie for food: that some of them are also forced to breed on the prairie is apparently shown by the nesting of the Flicker, Tree Swallow, Kingbird and Bluebird on the fence posts.

List of Species.

1. *Podilymbus podiceps.* Pied-billed Grebe.—Only a few birds of this species were seen. An adult male was taken, July 29, in the rushes of the east end of Elbow Lake, and on July 16 a nest with six eggs was found in the same habitat.

2. *Hydrochelidon nigra surinamensis.* Black Tern.—The Black Tern was found in numbers. It nested in the wet marshes that form the outlet to Lost Island Lake, and roamed over all of the grassland habitats. Immature birds just able to fly were taken on and after July 3.

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1 As the field work covered a restricted area (Fig. 1) exact localities have often been omitted in the annotations in the following list, the habitat data being deemed sufficient. The dates of observations are also omitted, except in the case of migrants and immature birds, nests and eggs.
1. Shore of Trumbull Lake, Clay County, Iowa.
2. East end of Elbow Lake, Palo Alto County, Iowa.
3. **Querquedula discors.** **Blue-winged Teal.**—This was the most common duck observed. Nests and eggs (11 in one nest) as well as young birds in all stages of development were found in the outlets of Elbow and Lost Island Lakes. Most of the young were well feathered and able to fly on July 16.

4. **Spatula clypeata.** **Shoveller.**—A single specimen, an adult female, secured in the outlet of Lost Island Lake, August 21, was the only one of this species observed.

5. **Botaurus lentiginosus.** **Bittern.**—Very common about the marshes of the region. The nests were found most frequently in the low meadows bordering the marshes.

6. **Ixobrychus exilis.** **Least Bittern.**—The Least Bittern was quite common at the east end of Elbow Lake, where a number of pairs nested among the rushes growing in water from three to four feet deep. An adult male and female with nest and six eggs (slightly incubated) were taken here on July 16, and on July 30 six nestlings and another nest with five eggs nearly ready to hatch were found in the same habitat.

7. **Ardea herodias herodias.** **Great Blue Heron.**—A relatively common species about the lakes and marshes of the region. On August 15, an adult female was taken at Virgin Lake, and on August 22 an adult male was secured at Elbow Lake.

8. **Butorides virescens virescens.** **Green Heron.**—Occasionally noted about the marshes but not as common as the preceding species. An immature male with down-tipped feathers on the head was taken at Elk Lake on August 19, and on August 9 an adult female was secured at Trumbull Lake. The species was also observed in the outlet of Elbow Lake.

9. **Nycticorax nycticorax novius.** **Black-crowned Night Heron.**—On August 21 an immature male was taken by Ruthven in a clump of willows along a road and about a half mile from the outlet of Elbow Lake. This was the only individual of the species that was certainly identified. The bird had become exhausted, and was evidently forced to alight outside of its regular habitat.

10. **Rallus elegans.** **King Rail.**—There is an adult male of this species, taken near Ruthven, October 4, 1909, by Nels Hansen, in the museum collection.

11. **Rallus virginianus.** **Virginia Rail.**—Undoubtedly this species is rather common about the marshes of the region studied, although it was only noted occasionally. Three specimens were taken: one, an immature male well feathered, was secured in a slough on the south side of Elbow Lake on August 3.

12. **Porzana carolina.** **Sora.**—The only Sora seen was an adult male taken at the outlet of Lost Island Lake, August 8.

13. **Gallinula galeata.** **Florida Gallinule.**—Very common about the marshes of the region explored. Several nests with eggs and numbers of immature birds were noted in the rushes and sedges. On August 2,
an adult male and female with a nest and seven eggs were found at the east end of Elbow Lake, and well feathered birds were secured at the outlet of Elbow Lake, August 19 and 21, in a pond near Elbow Lake, on August 21, and at the outlet of Lost Island Lake, on August 30.

14. **Fulica americana. Coot.**—A common breeding species about all of the lakes and marshes in the region. Immature birds were taken at the east end of Elbow Lake on July 16 and 29, and at the outlet of Lost Island Lake on August 6, 12 and 14. Some of the young taken on July 16 and August 14 were still in the down.

15. **Micropterna himantopus. Stilt Sandpiper.**—Two adult males of this sandpiper were taken on a pond near Virgin Lake, August 15, and on August 27 an adult female was secured at a pond in Clay County. These were the only birds seen.

16. **Pisobia maculata. Pectoral Sandpiper.**—The only Pectoral Sandpipers seen were in small flocks from which the following specimens were taken; an adult male and female in a swampy meadow near the outlet of Lost Island Lake, August 8, an adult female near Virgin Lake, August 15, and an adult male near a pond in Clay County, August 11.

17. **Pisobia minutilla. Least Sandpiper.**—Rather common about the ponds after August 11. Only adult males were secured, five at a pond in Clay County, August 11, 19 and 21, and one near Virgin Lake, August 15.

18. **Totanus melanoleucus. Greater Yellow-legs.**—An adult female of this species was taken near a pond in Clay County, August 15. This was the only bird seen.

19. **Totanus flavipes. Yellow-legs.**—The only Yellow-legs observed were in several small flocks from which an adult male was taken in a marsh, August 12, an adult female at a small pond near Virgin Lake, on August 15, and an adult male at a pond in Clay County, August 22.

20. **Helodromas solitarius solitarius. Solitary Sandpiper.**—A common species during the fall migrations. Only adults were seen, and the first bird was observed on July 31. After this date and throughout August they were found about the prairie ponds, on the mud flats in the sloughs, and on the lakes.

21. **Bartramia longicauda. Upland Plover.**—Not uncommon on the higher grassland areas. Immature birds (males) were found in a pasture south of Elbow Lake and on grass-covered hills in eastern Clay County on August 3 and 19. These birds were well feathered.

22. **Actitis macularia. Spotted Sandpiper.**—Common in the breeding season about the lakes with sandy shores. On August 22 they were observed about the ponds on the prairie.

23. **Oxyechus vociferus. Killdeer.**—Very common throughout the region studied; preferring the vicinity of water but often found at some distance from it. Immature specimens were secured in a slough south of Elbow Lake, August 2, in a pasture in eastern Clay County, August 8,
and at a pond in Clay County, August 12 and 29. These birds are well feathered but have down-tipped tail feathers.

24. *Egialitis semipalmata*. SEMIPALMATED PLOVER.—The only record of this species secured was an adult male taken at a pond in Clay County, September 1.

25. *Colinus virginianus virginianus*. BOB-WHITE.—This bird is not uncommon throughout the region examined. It was most frequently observed about the wooded areas.

26. *Tympanuchus americanus americanus*. PRAIRIE CHICKEN.—Formerly this species was very common in Clay and Palo Alto Counties, according to the observations of Ruthven, but in recent years it has been nearly exterminated. It was not found in the summer of 1907, but on November 11, 1911, Nels Hansen took an adult female, near Ruthven, that is now in the museum.

27. *Zenaidura macroura carolinensis*. MOURNING DOVE.—Very common throughout the region. The nests are placed in the wooded areas and in the willows along the roads. Two nestlings were taken in a willow tree on July 2 (hatched July 1). Another was taken in a grove, July 12, and a nest with two eggs was found, August 15, in the woods at Virgin Lake.

28. *Circus hudsonius*. MARSH HAWK.—Common throughout the region, frequenting and nesting in the low meadows. An immature male was taken near the outlet of Elbow Lake, August 28.

29. *Haliaeetus leucocephalus leucocephalus*. BALD EAGLE.—The species was not found in the summer of 1907, but an immature female taken in Palo Alto County, October, 1907, by Nels Hansen, is in the museum.

30. *Asio wilsonianus*. LONG-EARED OWL.—An adult female was found in a grove near Lost Island Lake, July 22.

31. *Asio flammeus*. SHORT-EARED OWL.—An adult female Short-eared Owl was taken on upland prairie in eastern Clay County, August 5.

32. *Otus asio asio*. SCREECH OWL.—This species was not found in 1907. An adult male, taken February 1, 1909, and an adult female, secured on February 2, 1909, in Palo Alto County, by Nels Hansen, are in the museum.

33. *Nyctea nyctea*. SNOWY OWL.—Occasionally seen in the winter (Ruthven).

34. *Coccyzus americanus americanus*. YELLOW-BILLED CUCKOO.—Not uncommon in the wooded areas. One specimen, an adult female, was taken in a grove of willows near Elbow Lake, July 17, another at Elk Lake, August 21, and a third in a grove on high ground, August 28.

35. *Coccyzus erythropthalmus*. BLACK-BILLED CUCKOO.—Occasionally noted in the groves and timber zones along the streams and lakes. An adult male and female were found in a grove near Lost Island Lake, July 22, and others were seen in a grove on high ground at different times during July and August.
36. *Ceryle alcyon alcyon*. **Belted Kingfisher.**—Common about
the lakes.

37. *Dryobates pubescens medianus*. **Downy Woodpecker.**—
Several were seen in the woods about the lakes. An adult male was taken
at Lost Island Lake, July 26.

38. *Melanerpes erythrocephalus*. **Red-headed Woodpecker.**—
An adult male taken in a grove in Palo Alto County, July 17, and an adult
female found in the woods at Lost Island Lake, July 18, were the only birds
of this species seen.

39. *Colaptes auratus luteus*. **Northern Flicker.**—Very common
both on the prairie and in the groves and timber zones along the lakes and
streams. Nests were found in the groves and in hollow fence posts on the
prairie.

40. *Chordeiles virginianus virginianus*. **Nighthawk.**—Common
throughout the region, frequenting the higher grassland areas and grain
fields. No nests or immature birds were found.

41. *Chætura pelagica*. **Chimney Swift.**—Noted occasionally in
the evening, flying about near the town of Ruthven.

42. *Archilochus colubris*. **Ruby-throated Hummingbird.**—Only
observed a few times. An adult female was taken at Lost Island Lake,
August 27.

43. *Tyrannus tyrannus*. **Kingbird.**—A common breeding species,
nesting in the groves and timber zones along the lakes and on fence posts
on the prairie. On July 2 a nest fifteen feet from the ground in a grove
contained no eggs. On July 23 a nest with nestlings was found in the top
of a fence post five feet high in a meadow, and on July 24 a nest with three
nestlings was found four feet from the ground in willows in a grove.

44. *Tyrannus verticalis*. **Arkansas Kingbird.**—Noted in most of
the prairie districts throughout the region. Adults and immature birds of
both sexes were secured, the latter on August 7, 15, 20, and 26. A nest was
found twenty-five feet from the ground in a poplar tree along a road,
August 7, and contained three young birds well feathered but just able
to fly.

45. *Myiophasis virens*. **Wood Pewee.**—Occasionally observed in
the groves and timber belts along the streams and lakes. A well feathered
immature bird and a nest were observed in a grove, August 3.

46. *Empidonax trailli alnorum*. **Alder Flycatcher.**—A very
common species about the streams and lakes, and found in lesser numbers
in upland groves. Adults were observed throughout July and August, and
an immature female (well feathered) was taken on August 13.

47. *Empidonax minimus*. **Least Flycatcher.**—Common breeder
in all of the groves and in the woods about the lakes and streams; also
frequents the willows along the roads. An immature female (well feathered)
was taken in a grove near Lost Island Lake, August 7.

48. *Otocoris alpestris praticola*. **Prairie Horned Lark.**—Com-
on on the higher grassland and in the cultivated fields throughout the
region. No immature birds were taken.
49. **Cyanocitta cristata cristata.** Blue Jay.—One specimen, an adult female, was taken at Lost Island Lake, July 26. No others were noted.

50. **Corvus brachyrhynchos brachyrhynchos.** Crow.—Observed in small flocks in July and August, on the prairie, in groves, and in the woodland along the lakes and streams. The nests were only noted along the Ocheyedan River at Spencer and at Gillets Grove on the Little Sioux River.

51. **Dolichonyx oryzivorus.** Bobolink.—The Bobolink was only found in small numbers. The breeding pairs were only noted in low meadows, but on August 26 a small flock in winter plumage was seen on upland prairie.

52. **Molothrus ater ater.** Cowbird.—The Cowbird was found everywhere, but the only immature birds were taken in the groves and in the woods along the streams, July 18 (well feathered) August 22 (nestlings).

53. **Xanthocephalus xanthocephalus.** Yellow-headed Blackbird.—One of the most abundant species in the region. A large series of specimens, representing every plumage, of this beautiful blackbird were secured. The nests were found only in colonies, and were placed in the rushes and sedges in the sloughs. A large colony at the east end of Elbow Lake consisted of hundreds of breeding pairs. Nestlings were found in this colony of July 16, but most of the young birds were well feathered and leaving the nests at this time.

54. **Agelaius phoeniceus phoeniceus.** Red-winged Blackbird.—Like the preceding species the Red-winged Blackbird is very common, but the birds do not seem to range so far from the marshes, where they nest, and the nests are more widely distributed. Nestlings were found on July 3 and 5, but the young birds were leaving the nest at this time. In two nests the young birds were three and five in number.

55. **Sturnella neglecta.** Western Meadowlark.—A common species in all of the prairie areas, meadows and cultivated fields. Well feathered immature birds were taken on July 19 and August 1 and 27.

56. **Icterus spurius.** Orchard Oriole.—The Orchard Oriole was only found in the willows that have been planted along the roads, but it undoubtedly occurs in the other wooded habitats. Four individuals were seen, one an immature male (well feathered) taken on August 3.

57. **Icterus galbula.** Baltimore Oriole.—Only observed in two upland groves and in low woods at Trumbull Lake. Two immature birds in downy plumage were taken on August 1, and another well feathered was noted on August 9.

58. **Quiscalus quiscula aeneus.** Bronzed Grackle.—Noted in all of the wooded habitats, but most frequently in the upland groves. Immature birds were taken in a grove in Clay County, July 6 (well feathered), 7 (one in the down and one well feathered), and 11 (fully feathered).

59. **Astragalinus tristis tristis.** Goldfinch.—A common species, nesting in the groves but feeding to a considerable extent in the open habitats. A nest with four eggs was found on August 13.
60. **Plectrophenax nivalis nivalis.** Snow Bunting.—Two adult males and one adult female taken on February 24, 1909, near Ruthven, by Nels Hansen, are in the museum collection.

61. **Ammodramus savannarum bimaculatus.** Western Grasshopper Sparrow.—Only found on the upland prairie areas but very common in that habitat. Of the series secured, but one, a fully feathered male taken on August 19, is immature.

62. **Passerherbulus henslowi occidentalis.** Western Henslow’s Sparrow.—The only individual of the species noted was taken by Ruthven in a grassy swale on rather high ground in Clay County, August 29.

63. **Melospiza melodia melodia.** Song Sparrow.—Apparently far from common. The only specimens seen were two adult males in a marsh near Lost Island Lake, July 22, an adult male at the same place, August 7, another on the shore of Trumbull Lake, August 13, and a fully feathered immature female at Elk Lake, August 19.

64. **Melospiza georgiana.** Swamp Sparrow.—Common throughout July and August about the sloughs, but not observed elsewhere. The only immature bird in the collection is a female taken on August 26.

65. **Passer domesticus.** English Sparrow.—Common everywhere, nesting both in buildings and in trees in the groves.

66. **Zamelodia ludoviciana.** Rose-breasted Grosbeak.—Only found in two upland groves and in the woods about Lost Island Lake. Three of the four birds seen were in the last named habitat, and one, found July 26, is a nesting.

67. **Spiza americana.** Dickcissel.—Found in the grassland habitats, both on the hills and in the meadows; locally rather common. All of the specimens secured are adult.

68. **Petrochelidon lunifrons lunifrons.** Cliff Swallow.—Common throughout the region, nesting under the eaves of barns and outbuildings.

69. **Hirundo erythrogaster.** Barn Swallow.—A common species, nesting on the rafters in barns. A nest with four partly feathered nestlings was found on July 11.

70. **Iridoprocne bicolor.** Tree Swallow.—Noted only about the grassland areas. A nest was found in a hole in the top of a fence post, July 3, and a well feathered immature male was taken on July 18.

71. **Riparia riparia.** Bank Swallow.—A colony was found nesting in a gravel bank near Lost Island Lake. In the latter part of August the birds were seen in numbers with other swallows about the swamps.

72. **Lanius ludovicianus migrans.** Migrant Shrike.—Frequently observed about the fields and pastures. Immature birds were taken on July 19 and 22.

73. **Vireosylva gilva gilva.** Warbling Vireo.—An adult female of this species was found in the woods about Lost Island Lake, July 25, and a nestling was taken in the same locality on July 26. These were the only birds seen.
74. *Mniotilta varia*. **Black and White Warbler.**—The only bird of this species noted, an adult male, was taken in a grove in Clay County, August 30.

75. *Dendroica aestiva aestiva*. **Yellow Warbler.**—Not uncommon, particularly about the groves and in the willows along the roads. An immature male in the collection was taken on July 24 and a nestling on July 18.

76. *Dendroica castanea*. **Bay-breasted Warbler.**—A single bird of this species, an adult male, was taken by Ruthven in a grove in Clay County, July 4.

77. *Geothlypis trichas trichas*. **Maryland Yellow-throat.**—Common about all of the marshes. An immature bird in the down was taken on July 23 and another, well feathered, on August 1. One bird was seen in an orchard about a mile from a marsh.

78. *Wilsonia pusilla pusilla*. **Wilson's Warbler.**—The only birds of this species observed were an immature male and two immature females (all fully feathered) in a grove in Clay County, August 28 and 30.

79. *Dumetella carolinensis*. **Catbird.**—The Catbird was seen a few times in the woods about the lakes.

80. *Toxostoma rufum*. **Brown Thrasher.**—Only a few Thrashers were observed, and these were in the woods about the lakes. Two immature birds just ready to leave the nest were found at Elbow Lake, July 8.

81. *Troglodytes aëdon parkmani*. **Western House Wren.**—Common in the groves and in the woods along the lakes and streams. Three birds in the fine series obtained are immature; they are a partly feathered male taken on July 17 and a nearly fully feathered male and female taken on July 24, all in groves.

82. *Cistothorus stellaris*. **Short-billed Marsh Wren.**—This wren was occasionally observed about the marshes but was found in numbers only in a small slough south of Elbow Lake. Only adults were noted.

83. *Telmatodytes palustris iliacus*. **Prairie Marsh Wren.**—A very common species about all of the marshes in the region. Many nests were observed where the rushes and sedges were growing in the water. A nest with five unincubated eggs was found on July 30, and well feathered immature birds were taken on August 3.

84. *Penthestes atricapillus septentrionalis*. **Long-tailed Chickadee.**—An adult female secured by Ruthven in willows along a road, July 14, was the only one of this species observed.

85. *Planesticus migratorius migratorius*. **Robin.**—The Robin was observed in some numbers about the wooded habitats.

86. *Sialia sialis sialis*. **Bluebird.**—The Bluebird was found both in the wooded and grassland habitats, but was most common in the latter, where it nests in fence posts. Three well feathered nestlings were taken in a pasture on August 6.