

the earliest birds of that species, transients in our latitude, pass hurriedly, and stop only in such kinds of country as most resemble their ultimate destination. In other words, as a general rule, their occurrence in the State in spring becomes extended from the higher lands to the lower as the season advances.

THE WINTER RANGES OF THE WARBLERS (MNIOTILTIDÆ).

BY W. W. COOKE.

MANY expert ornithologists have spent a great deal of time and care in working out the breeding range of each species of North American birds. No comparable effort has been bestowed on the question of the winter home, and as a result many loose statements are current in ornithological literature. There seems to be a tendency to consider any record south of the United States as a wintering record, whereas quite a number of species pass in migration through the West Indies or Central America to winter in South America.

The following tables show at a glance what part of the district south of the United States is occupied as a winter home and what is crossed in migration. It might be added that the charts are not designed to show anything with reference to the breeding range of any of these species; so that the statement, for instance, that *Protonotaria citrea* occurs in migration in the southeastern United States is not to be taken as indicating that it does not breed in that same district.

The tables are condensed from the Bulletin on the 'Distribution and Migration of North American Warblers' recently issued by the Biological Survey.

	S. E. United States	Bahamas	Cuba	Jamaica	Haiti	Porto Rico	Lesser Antilles	Trinidad	Texas	S. W. United States	Mexico	Yucatan	Guatemala	Honduras	Nicaragua	Costa Rica	Panama	Colombia	Venezuela	Guitana	Brazil	Ecuador	Pern	Bolivia	Chile	
32	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+				+				
33	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
34	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
35	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
36	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
37	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
38	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
39	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
40	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
41	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
42	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
43	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
44	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
45	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
46	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
47	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
48	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
49	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
50	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
51	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
52	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
53	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
54	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
55	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
56	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
57	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
58	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
59	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
60	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
61	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
62	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
63	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								
64	-	+	+	+	+	+	+		+		+	+	+	+	+	+		+								

- = Occurs in migration

+ = Winters

* = Rare or accidental

Dendroica black burniae
dominica
d. albiflora
graciae
nigrescens
chrysoparia
virens
townsendi
occidentalis
kirtlandi
vigorsii
palmarum
P. hypochrysea
discolor
Seiurus aurocapillus
noveboracensis
n. notabilis
notacilla
Geothlypis formosa
agilis
philadelphia
tolmiei
trichas
t. occidentalis
t. ignota
t. arizela
t. brachidactyla
t. sinuosa
beldingi
poliocephala
Icteria virens
v. longicauda
Wilsonia mitrata

	65	66	67	68	69	70	71	72	73	74
Chile										
Bolivia										
Peru		+								
Ecuador		++								
Brazil										
Guiana		+								
Venezuela		+								
Colombia		++								
Panama		+++								
Costa Rica		++++								
Nicaragua		++	+							
Honduras		+++	++	+						
Guatemala		+++++	++++	+++	++	+				
Yucatan		+	+							
Mexico		+++++	++++	+++	++	+				
S. W. United States										
Texas										
Trinidad			+							
Lesser Antilles		※	+							
Porto Rico			+							
Haiti			+							
Jamaica			+							
Cuba			+							
Bahamas			+							
S. E. United States		※	—	—	—	—	—	—	—	—
== Occurs in migration = Winters + == Rare or accidental ※	Wilsonia pusilla	p. pileolata	canadensis	Setophaga ruticilla	picta	miniata	Cardellina rubrifrons	Ergaticus ruber	Basilieuterus c. brasheri	belli