

A FIELD KEY TO THE SPRING MALES.

- I. Throat red, orange or chestnut.
- II. Throat black or dark slate-color.
- III. Throat yellow, white or whitish ; under-parts without streaks or spots.
- IV. Throat white or whitish ; under-parts streaked or spotted.
- V. Throat yellow ; under-parts streaked or spotted.

I. Throat Red, Orange or Chestnut.

- 1. Throat chestnut.
 - a. Top of head chestnut ; sides of head black. Bay-breasted Warbler.
 - b. Whole head rich chestnut. (Extreme south-west). Mangrove Warbler.
- 2. Whole throat, chest and head orange-rufous. (Extreme south-west). Olive Warbler.
- 3. Throat orange or flame-color ; crown yellow. Blackburnian Warbler.
- 4. Throat red.
 - a. Crown and ear-coverts black. (Extreme south-west). Red-faced Warbler.
 - b. Ear-coverts silvery-white. (Extreme south-west). Red Warbler.

II. Throat Black or Dark Slate-Color.

- A. Belly white.
 - 1. Back blue-gray ; side of head black and white. (Western). Black-throated Gray Warbler.
 - 2. Back deep blue ; a white spot in wing. Black-throated Blue Warbler.
 - 3. Back black ; a white spot in wing. (Alleghanies). Cairns' Warbler.
 - 4. Back black ; sides of head yellow and black. Golden-cheeked Warbler.
 - 5. Back gray and black ; top and sides of head yellow. (Western). Hermit Warbler.
 - 6. Back green ; cheeks and forehead yellow. Black-throated Green Warbler.
 - 7. Back olive-green ; line over eye and breast yellow. (Western). Townsend's Warbler.
 - 8. Back grayish ; a large yellow patch in wing. Golden-winged Warbler.
 - 9. Back black ; patches of flame-color in wing, on sides of breast and in middle of tail. Redstart.

- B. Belly yellow.
1. Throat slate-color.
 - a. No white eye-ring; breast with traces of black.

Mourning Warbler.
 - b. A white eye-ring; breast with no traces of black.

Connecticut Warbler.
 - c. A white spot on eyelid; sides of head black. (West-ern).

Macgillivray's Warbler.
 2. Throat black.
 - a. Forehead and cheeks yellow, rest of head black.

Hooded Warbler.
 - b. Forehead yellow; crown with a black patch.

Bachman's Warbler.
- C. Belly red.
1. A large white patch on wing; no chestnut on head.

(South-west). Painted Redstart.
 2. No white wing patch; chestnut patch on crown. (South-west).

Red-bellied Redstart.

III. Throat Yellow, White or Whitish; Underparts Without Streaks.

- A. Large as a Catbird.
1. Back olive-green; throat and breast rich yellow.

Yellow-breasted Chat.
 2. Back olive-gray. (Western).

Long-tailed Chat.
- B. Much smaller.
1. Throat yellow.
 - a. Whole head, neck and breast bright yellow.

Protonotary Warbler.
 - b. Forehead and cheeks black; line over yellow eye.

Kentucky Warbler.
 - c. A broad, rounded black patch on cheeks.

Maryland Yellow-throat.
- (NOTE.—An artificial key to the Yellow-throats would be of such doubtful value a-field that the reader is referred to the habitat of the different forms in the body of the paper).
- d. Head and back olive-green; two white wing-bars.

Pine Warbler.
 - e. Crown bluish ash or gray.
 1. Upper tail-coverts yellowish olive-green.
 - (a). Lower parts yellow.
 - (1). Yellow intense. (Western).

Calaveras Warbler.
 - (2). Yellow less intense.

Nashville Warbler.
 - (b). Lower parts white or whitish. (Western).

Virginia's Warbler.
 2. Upper tail-coverts chestnut. (Western).

Lucy's Warbler.

- f. Forehead yellow; a black line in front of eye.
Blue-winged Warbler.
- g. Forehead yellow; crown black.
1. Duller colored. Wilson's Warbler.
2. Brighter colored. (Western). Pileolated Warbler.
- h. Head bluish; breast with a chestnut patch.
1. Underparts yellower; less black on side of head.
Parula Warbler.
2. Underparts duller; side of head blacker.
Northern Parula Warbler.
3. Same as 1 and 2. (Extreme south-west). Sennett's Warbler.
- i. Head ash-gray; line over eye yellow. (South-west).
Grace's Warbler.
- j. Top of head with black stripes.
1. Lores chestnut. (South-west). Brasher's Warbler.
2. Lores black. (South-west). Bell's Warbler.
- III. Throat white or whitish.
a. Crown with two blackish stripes. Worm-eating Warbler.
b. Crown plain brown. Swainson's Warbler.
c. Crown bluish-ash; back olive green. Tennessee Warbler.
d. Crown with a partially concealed patch of rufous brown;
back dull olive-green; underparts pale yellow.
Orange-crowned Warbler.
- ee. Above bright olive-green; brighter underneath.
(Western). Lutescent Warbler.
Another western form, not very different, is Dusky Warbler.

IV. Throat White or Whitish; Under-parts Streaked or Spotted.

- A. A patch of yellow on the side of the breast.
1. Crown and rump with a yellow spot. Myrtle Warbler.
There is no field character to distinguish the western
form. The wing and tail are longer. Hoover's Warbler.
2. Yellow band on middle of wing and tail. Immature of Redstart.
- B. No yellow patch on side of breast.
1. With conspicuous wing bars.
a. Back bright bluish. Cerulean Warbler.
b. Back grayish; crown black. Black-poll Warbler.
c. Back greenish yellow; sides chestnut. Chestnut-sided Warbler.
2. Without wing-bars. Walking Warblers.
a. Middle of crown with a rufous streak. Oven-bird.
b. Crown plain; line over eye buff. Water-Thrush.
The form from Illinois westward is larger.
Grinnell's Water-Thrush.
c. Crown plain; line over white eye. Louisiana Water-Thrush.
3. Everywhere streaked black and white. Black and White Warbler.

V. Throat Yellow, Under-parts Streaked or Spotted.

- A. Belly white.
1. Line over eye yellow in front of eye. Yellow-throated Warbler.
 2. Line over eye entirely white. Sycamore Warbler.
- B. Belly yellow.
1. Streaks on the underparts rufous brown.
 - a. Crown yellow, back greenish. Yellow Warbler.
 (NOTE.—The south-western form, with back yellower and streaks underneath almost obsolete, is Sonora Warbler.
The darker form inhabiting Alaska to British Columbia, is Alaskan Yellow Warbler).
 - b. Crown Chestnut, back brownish.
 - (1). Underparts soiled yellowish-white. Palm Warbler.
 - (2). Underparts entirely bright yellow. Yellow Palm Warbler.
 2. Streaks or spots on the underparts black.
 - a. A yellow spot on crown and rump. (Western).
Audubon's Warbler.
 - b. Back grayish, unstreaked; a necklace of black spots on the breast. Canadian Warbler.
 - c. Back greenish, streaked with black; crown bluish.
Kirtland's Warbler.
 - d. Back greenish, streaked with black; ear-coverts rufous.
Cape May Warbler.
 - e. Back greenish, with a patch of rufous brown. Prairie Warbler.
 - f. Back black; crown grayish; tail black with a white band across the middle. Magnolia Warbler.