## Article XI. — A NEW GROUSE FROM CALIFORNIA.

## By FRANK M. CHAPMAN.

### Dendragapus obscurus sierræ, subsp. nov.

### SIERRA GROUSE.

Chars. Subsp. — Most nearly related to Dendragapus obscurus, but the nuchal region often browner and usually vermiculated with black, the whole dorsal region less black and more heavily vermiculated with brown and gray; terminal tail band narrower and more speckled with blackish; the median tail-feathers more heavily marked with gray or brownish; the scapulars and tertials with the terminal white wedge less developed or entirely wanting; the basally white necktufts practically absent; the throat averaging duskier and the feathers of the sides, flanks, and under tail-coverts with much less white.

Differs from *Dendragapus obscurus fuliginosus* in much paler coloration above, in the heavier vermiculation of the entire upper surface, practical absence of neck-tufts, whiter throat, and paler underparts.

Type, No. 79079, Am. Mus. Nat. Hist., Echo, El Dorado Co., California, July 18, 1896; P. O. Simons.

Range. — California in the forested portions of the Transition and Boreal zones, "east of the humid coast belt, and south through the Sierras to Mount Pinos" (Grinnell); north to Fort Klamath, Oregon.

Females of all three forms, in breeding plumage, are not certainly distinguishable from one another. The tail band in *obscurus*, however, averages wider, and in *sierræ* the central tail-feathers are less definitely barred.

A female from Sitka in fresh fall plumage (Sept. 10) is strikingly different from a female in similar plumage taken at Echo, El Dorado Co., October 7. The prevailing color of the former is rich, deep rusty and the bird suggests *Bonasa umbellus sabinei* in tone of coloration. The dominant color of the California bird, on the other hand, is gray, the feathers of the entire dorsal surface being widely margined with this color. The underparts in this example are much paler and whiter than in the Alaska bird.

The young of *sierræ* in juvenal plumage, of which the

collection contains twelve specimens, are all appreciably paler than two examples of *fuliginosus* in corresponding plumage.

The range of *Dendragapus obscurus* is given in Baird, Brewer, and Ridgway (III, p. 423) as "Rocky Mountain region of the United States, principally south of South Pass, and Sierra Nevada, north to Oregon and south to San Francisco Mountains, New Mexico." In the same work (p. 425) *D. o. fuliginosus* is said to inhabit the "Northwest coast region, from Oregon to Sitka."

In Ridgway's 'Manual' (first, 1887, and second, 1896, editions) the Sierras are not included in the range of any form of this species. The A. O. U. Check-List (second edition, 1895) gives the western limit of the range of *obscurus* as the "East Humboldt Mountains," while *fuliginosus* is said to inhabit the "northwest coast mountains, from California to Sitka, east to Nevada, western Idaho, and portions of British Columbia." Bendire (Life Histories of North American Birds, 1892, p. 44) as well as Grinnell (Check-List of California Birds, 1902, p. 30) also refer the Sierra grouse to *fuliginosus*.

It appears, however, on comparison of specimens of Sierra grouse, lately received by the Museum from W. W. Price, with series of *Dendragapus obscurus* and *D. o. fuliginosus*, very kindly loaned me by the U. S. National Museum through Mr. Robert Ridgway, and by Mr. William Brewster, that the form of *Dendragapus* inhabiting the Sierras is much more nearly related to *obscurus* than to *fuliginosus*. Curiously enough it follows, therefore, that the ranges accorded the birds of this group by Baird, Brewer, and Ridgway in 1875 are more nearly correct than those which have appeared in subsequent works.

In spite of the fact that the Sierra Grouse more nearly resembles *obscurus* than it does *fuliginosus* it apparently has been derived from the latter rather than from the former. That is, it represents a southern extension of the northwest coast form and not a westward extension of the Rocky Mountain form.

This theory is supported by the apparent continuity of range of *sierræ* and *fuliginosus* and by their evident intergradation in the vicinity of Klamath, Oregon. Several of the

specimens, in an admirable series collected by Major Bendire, at Fort Klamath, are referable to *sierræ* rather than to *fuliginosus*, though not typical of the former. Other examples in this series, however, are much nearer to *fuliginosus*. On the other hand, I have no material proving continuity of range in *sierræ* and *obscurus*, and the character of the country intervening between the nearest known portions of their respective ranges would lead one to suppose that they do not intergrade geographically.

Acknowledgments for the loan of material are due Mr. Robert Ridgway (39 specimens) and Mr. William Brewster (5 specimens).

### Material Examined.

D. o. richardsoni. British Columbia: Fort Halkett, 1 3, 19; Ashcroft, 4 99, 3 juv.; Ducks, 19. Alberta: 60 miles west of Calgary, 233. Montana: 233.

D. o. fuliginosus. Alaska: Sitka,  $2\delta\delta$ ,  $1\hat{\varphi}$ ; Gustavus Point,  $1\delta$ . British Columbia: Chilliwack,  $1\delta$ , 1 juv.; New Westminster,  $2\delta\delta$ ; Victoria,  $1\delta$ . Washington: 49th parallel, Mt. Baker Range, 1 juv.; Puget Sound,  $1\delta$ ; Fort Steilacoom,  $1\delta$ ; Clickatat River,  $1\hat{\varphi}$ . Oregon: Douglas Co.,  $1\delta$ ; foot of Mt. Hood,  $1\delta$  (type); Canyonville,  $1\hat{\varphi}$ .

Intermediate between *juliginosus* and *sierræ*. Oregon: Fort Klamath, 6  $\delta \delta$  (2 nearer *fuliginosus*, 2 nearer *sierræ*), 4  $\Im$ , 2 juv. California: near Oregon line, 1  $\Im$ ; Castle Lake, 1  $\Im$ .

D. o. sierræ. California: Mt. Tallac (El Dorado Co.), 1 &, 1 juv.; Echo (El Dorado Co.), 2 & &, 13 & &, 11 juv.; near Lake Tahoe, 1 &; Big Trees, 1 &; Bloods, 1 &; Fort Crook, 1 &.

D. o. obscurus. Montana: Deer Creek, 2 & &. Utah: Brown's Park, 1 &, 2 juv.; Fort George, 1 &, 1 &; Uintah Mts., 1 &. Ari-. zona: White Mts., 2 & &. Colorado: 1 &; Twin Lakes, 1 &, 1 &; Rio Grande, 1 &; Jimtown, 1 &; Huerfano Co., 1 &.

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Name.	No.	Locality.	Date.	Wing.	Tail.	Gonys.	Tarsus.	Tail Band on mid. feathers.	Greatest Width Tail Band on In- ner Web of Outer Rectrix.
Fuliginosus	N. M. 170281 A. M. 47278	Gustavus Point, Alaska. New Westminster, B. C. New Westminster, B. C. Chilliwack, B. C. Victoria, B. C. Foot of Mt. Hood, Oregon.	June 10 Apr. 27	218	158	10.3	45.5	16. 10.5	7.5 9.5
"	"47277 W.B. 45642 N.M. 153198 4505 <sup>1</sup>		May 5 May 13 Mar. 27	22I 217 214	150 169 152	10.5 11.8 10.5	46. 47. 43.5	13. 17.2 17.	5. 8.5 8.5
			Average:	232	157	11.	43.8	17.5	9.5 8.1
Sierræ "	A. M. 79081 " 79080	Mt. Tailac, El Do- rado Co., Cal. Echo, El Dorado Co., Cal. Echo, El Dorado Co., Cal. Bioods, Cal. Fort Crook, Cal.	July 6 Aug. 8	220	162	9.9	45.	 15.	10.5
" "	"79079 <sup>1</sup> N. M. 85627 18053		July 18 June 20 Mar. 19	235 230 238	172 183	10.4 11. 11.	43. 45.4 44.	 21.5 21.	10. 9.5 8.
Obscurus 	N. M. 62652 " 19164 " 112680 " 112680 " 163863 A. M. 45187 N. M. 69771 101427	Ft. George, Utah Deer Creek, Mont. Jimtown, Colo. Colorado. Huertano Co., Colo. Twin Lakes, Colo. Rio Grande, Colo. White Mts., Ariz.	Average: June 10 Feb. 13 Oct. 25 Nov. 10 Oct. 25 July 28 June 10 Average:	229 223 227 234 241 222 232 238 218 229	172 180 156 157 157 179 179 145	10.6 10.3 10.8 10.2 10.1 10. 10.3 10.6 10.5	44.3 47. 46. 44.5 46. 44. 46. 48.5 43. 45.6	19.2 30. 32. 27.5 33. 22.5 38.5 30. 23. 29.6	9.5 15. 14. 14. 12.5 12.5 25. 18.5 12.5 15.5

### MEASUREMENTS OF NINETEEN MALES OF Dendragapus obscurus, D. o. fuliginosus, AND D. o. sierræ.

<sup>1</sup> Type.

NOTE. — N. M. = U. S. National Museum; A. M. = American Museum Natural History; W. B. = Collection of William Brewster.

Greatest width of tail-band on inner web of outer rectrix in females.

				Min.	Average.	мах
D. o. fuliginosu	s (3 s	pecimer	ns)	6.	7.7	9
D. o. sierræ	(10	"	)	8.	10.2	15.
D. o. obscurus	(4	"	)	10.	14.6	20.