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A NEW SUBSPECIES OF CROSSBILL
FROM NEWFOUNDLAND

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A NEW SUBSPECIES OF CROSSBILL FROM NEW- FOUNDLAND

By A. C. BENT

While visiting Dr. Leonard C. Sanford's camp, on the Fox Island River in Newfoundland, on June 10, 1912, I noticed two Crossbills, which he had just collected, which were very evidently different from any specimen of this species that I had ever seen from eastern North America. I advised him to collect as many more as possible for study and comparison. He succeeded in securing eleven specimens in all which he has kindly lent me for description. After comparing these birds with all the material available in the collections of the American Museum of Natural History in New York, the United States National Museum and Department of Agriculture Biological Survey in Washington, I have decided to describe and name the new form, which so far as we know at present is confined, in the breeding season at least, to Newfoundland.

LOXIA CURVIROSTRA PERCNA, new subspecies

Newfoundland Crossbill

Type.—Adult male, Cat. No. 233930, U. S. Nat. Mus., Flatbay River, Newfoundland, July 21, 1912, Dr. L. C. Sanford.

Subspecific characters.—Similar to *Loxia curvirostra minor* (Brehm) but considerably larger and with a much larger and heavier bill; slightly larger than *Loxia curvirostra bendirei*, Ridgway; but somewhat smaller than *Loxia curvirostra stricklandi*, Ridgway. In general coloration darker than any of the American subspecies of *Loxia curvirostra*; the reds deeper, richer and more brilliant and the greenish yellow shades richer and brighter than in similar plumages of the other forms. Whereas in the summer plumages of other American forms we find only a few of the most highly colored birds with reds equalling flame scarlet, and most of them show only orange chrome or duller shades of red, with less brilliant greens and yellows; we find in *Loxia curvirostra percna* scarlet, scarlet vermilion, vermilion, poppy red or even geranium red of the most brilliant, glossy shades, with various brilliant shades of greenish yellow.

The names of the colors referred to above are taken from Ridgway's Nomenclature of Colors, edition of 1886. The following measurements of *Loxia curvirostra percna* were kindly made by Mr. J. H. Riley, who also made the measurements of the other forms which I have copied directly from Ridgway's Birds of North and Middle America.

MEASUREMENTS OF LOXIA CURVIROSTRA PERCNA

Locality	Date	Wing	Tail	Culmen	Depth of Bill
<i>Seven Adult Males</i>					
	1912	mm.	mm.	mm.	mm.
Fox Island River, Newfoundland	June 10	93.0	56.0	19.0	12.0
" " " "	July 13	94.0	54.5	18.5	11.0
" " " "	" 15	96.5	54.0	19.5	11.0
" " " "	" 15	95.5	56.5	19.0	11.5
Flat Bay " "	" 18	93.0	54.0	18.5	10.0
" " " "	" 20	92.0	56.5	18.0	11.0
" " " " Type	" 21	96.5	57.0	19.0	11.5
<i>Four Adult Females</i>					
Fox Island River, Newfoundland	June 10	90.5	53.0	18.0	10.5
" " " "	July 9	89.0	50.5	18.5	11.0
Flat Bay " "	" 20	91.5	52.0	17.5	11.0
" " " "	" 20	89.5	53.5	18.5	11.0

MEASUREMENTS OF LOXIA CURVIROSTRA MINOR

Locality	Wing	Tail	Culmen	Depth of Bill
<i>Averages of Adult Males</i>				
	mm.	mm.	mm.	mm.
Eight from coast of Oregon to Alaska....	85.09	48.26	15.49	9.91
Six from Massachusetts to Maine.....	89.41	52.58	17.27	10.16
Six from Nebraska (Omaha).....	83.82	49.78	15.49	9.40
<i>Averages of Adult Females</i>				
Four from coast of Washington to Alaska	83.57	47.50	14.73	9.40
Four from Massachusetts to Maine.....	86.36	50.04	17.27	10.41
Three from Nebraska (Omaha).....	82.30	45.97	15.75	9.65

MEASUREMENTS OF LOXIA CURVIROSTRA BENDIREI

Locality	Wing	Tail	Culmen	Depth of Bill
<i>Averages of Adult Males</i>				
	mm.	mm.	mm.	mm.
Fifteen from eastern Oregon.....	92.96	52.32	17.78	11.43
Fourteen from California.....	92.20	53.59	19.30	11.43
Nine from Colorado.....	91.44	51.56	18.29
<i>Averages of Adult Females</i>				
Three from eastern Oregon.....	89.41	52.07	17.78	11.43
Four from California.....	88.90	49.53	18.03	10.67
Six from Colorado.....	86.36	49.02	17.78	10.16

MEASUREMENTS OF LOXIA CURVIROSTRA STRICKLANDI

Locality	Wing	Tail	Culmen	Depth of Bill
<i>Averages of Adult Males</i>				
	<i>mm.</i>	<i>mm.</i>	<i>mm.</i>	<i>mm.</i>
One from Guatemala.....	93.47	55.88	20.07	11.43
Five from Mexico.....	100.33	56.39	19.81	12.95
Seven from Arizona.....	97.79	55.88	19.81	12.45
<i>Averages of Adult Females</i>				
Two from Guatemala.....	90.93	19.56	11.94
Three from Mexico.....	96.27	52.07	19.56	12.45
Four from Arizona.....	90.93	50.80	18.80	10.41