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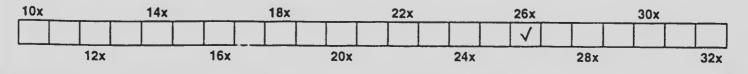


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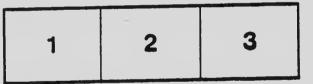
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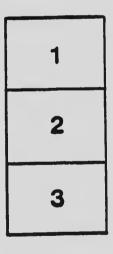
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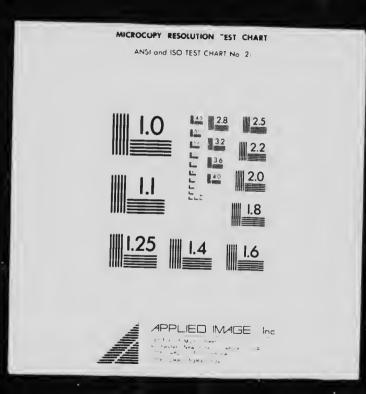
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(Reprinted from this Cospone Vol. XX) prosesses March (191)

THE SUMMER BIRDS OF HAZELTON, BRITISH COLUMBIA*

By P. A. TAVERNER

WITH ONE PHOTO



THE SUMMER BIRDS OF HAZELTON, BRITISH COLUMBIA*

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By P. A. TAVERNER

WITH ONE PHOTO.

AZELTON, BRITISH COLUMBIA, is at the head of the Skeena River, at the forks where the stream is formed by the junction of the Bulkley and Babine rivers. It is the most northern point reached by the Grand Trunk Pacific Railroad, hence, with the exception of points on the new Hudson Bay Railroad, it is the most northern station reached by any of the main railway systems in America. In latitude 55° 20′, it is on line with the mouth of James Bay and slightly north of Hamilton Inlet on the Labrador coast. Sitnated as it is, at the head of navigation on the Skeena River, the supply route 'Published by permission of the Geological Survey, Ottawa, Canada

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of all the northern parts of British Columbia, and on the line of the old Yukon telegraph line, Hazelton formerly enjoyed somewhat greater commercial importance than it does now, as but one of many stations on a transcontinental railroad system. It still remains, however, an important distribution center for the country to the north. Though geographically far north and in a latitude that in the east would exhibit aretic characters, the region about Hazelton is purely Canadian zone in its zoological and botanical aspects, though close to the Hudsonian boundary. It is situated at the inner edge of the coast range,

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Fig. 19. The Belkley River, from the suspension bridge at New Hazelton, British Columbia.

the lower altitude at about 800 feet. The surroundings are monntainous, Roche de Brulé, the highest mountain in the vicinity, rising 9000 feet above the sea level, while lesser elevations above the valley are numerous. The valleys are elothed with a dense growth of poplar, cottonwood and hemloek, with numerous Douglas firs and occasional particularly fine examples of birch. The mountain sides are mostly covered with Douglas fir, balsam and spruce. The upper limit of timber comes at about 5000 feet elevation. The whole country has suffered severely from fire, and, as a result, much of it is almost impassable with tangled second growth and fall in timber, making progress except along

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trails or roadways ardnons and slow. Fortunately the roads are exceptionally fine, or at least were during our season there; pack trails lead everywhere, giving access to all parts adjoining. There is little farming activity and most of the few clearings are devoted to the grazing of a few cattle and binches of pack horses. The topography is rough and broken. At New Hazelton, four miles above the original settlement at the forks, the Bulkley River breaks through a ridge by way of a narrow canyon over three hundred feet deep. Across this gorge the wagon road is carried on a suspension bridge, one of the highest structures of its kind in the world. A few hundred yards up stream and at a little lower elevation are the remains of a unique bridge that fell this summer, built years ago by the original natives from wire from the abandoned transcontinental telegraph line.

This locality was collected in by two parties from the Canadian Geological Snrvey during the summer of 1917. The first, composed of J. M. Maceum an Wm. Spreadborough, was in the field from June 20 to July 21. They camp near (Old) Hazelton, on the shores of the Skeena River, and worked most of the mountains and valleys adjoining. The present writer joined a geological party for a week (August 23 to 29) at a point some two miles west of New Hazelton near the bridge across the Bulkley. Most of his work was done in the vicinity of the camp, and higher altitudes were searcely visited. Birds were very searce and retiring during this midsummer week and the work is worth reporting upon only as supplementarly to that performed by Macoun and Spreadborough earlier in the scason.

1. Gavia immer. Common Loon. A Loon was seen on the Skeena. August 22, by the writer, as the train he was on approached Hazelton. The species was noted almost daily by Spreadborough in June and July.

2. Mergus americanus. American Merganser. Not common at Hazelton. Spread borough reports an adult and four young.

3. Charitonetta albeola. Bufflehead. An adult with four young seen by Spreadborough on a small lake near Hazelton, July 18.

4. Actitls macularia. Spotted Sandpiper. Reported by Spreadborough as a common breeder along the river; not seen about New Hazelton.

5. Bonasa umbellus. Ruffed Grouse. Several coveys and single birds seen at various times by both Spreadborough and myself. No specimens were taken, but *umbel-toutes* is the form to be expected here.

6. Accipiter velox. Sharp-shinned Hawk. Three seen by Spreadborough, and single birds observed by the writer nearly every day.

7. Buteo swainsoni, Swainson Hawk. One doubtfully recorded by Spreadborough, July 18.

8. Haliacetus leucocephaius. Baid Eagle. One taken June 29; several noted lu July.

9. Falco sparverius. Sparrow Hawk. Spreadborough found the Sparrow Hawk fairly common about Hizelton, and the writer saw several birds near New Hazelton. Two females taken July 2 at d 9. I refer these to the type form, *sparverius*.

11. Otus asic. Screech Owl. I thought theard the distant quavers and trills of this species a couple of evenings, but too faintly to be absolutely certain of the identification.

12. Bubo virginianus. Great Horned Owl. One seen by Spreadborough July 20 or 21.

13. Ceryle alcyon. Belted Kingfisher. Several seen along the river at Hazelton and one seen by the writer on the Bulkley

14. C yobates villosus. Hairy Woodpecker. Reported as common by Spreadborough, and one taken by the writer August 16. Three specimens taken by Spreadborough. Two of these birds are of slightly questionable identity. They are quite smoky below, but whether this is due to contact with burnt timber or is a natural coloration is

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a matter of some doubt. If the latter they must be regarded as showing a tendency toward harrist. Otherwise all are plainly referable to monficola.

15. Dryobates publicens. Downy Woodpecker. Spreadborough reports seeing what he took to be Gairdner Woodpecker (Dryobates publicens gairdner), July 18.

16. Picoides arcticus. Arctic Three-toed Woodpecker. Fairly common, and similarly to the next species, found at the edges of burnt timber. Four specimens taken by Spreadborough, July 11.

17. Picoides americanus. American Three-toed Woodpecker. Spreadborough reports it as fairly common at Hazelton along the borders of burnt timber, where it appeared to be feeding c_{1} larvae of the spruce-tree borer. Three specimens taken July 5 and 6. Being without comparable eastern material 1 include them under *fascialus* upon geographical probability, though 1 can see no sign of iongitudinal striping on the back.

18. Sphyrapicus ruber. Red-breasted Sapsucker. Three birds seen by the writer, and two juveniles taken. Spreadborough reports them as common at Hazelton, he taking five specimens there. The adult males of this series are considerably brighter and with the back less spotted than our only California specimen, hence i refer all to notkensis.

19. Phiceotomus pileatus. Pfleated Woodpecker. One seen by Spreadborough at flazelton.

20. **Colaptes auratus.** Flicker. Fairly common. Four specimens taken by Spreadborough and two by the writer. The former are hybrids but nearer *auratus* than to *cafer*. The mixture of blood shows mostly in the intrusion of grayish in the throat, but the yellow of the shafts on some is deepened to dull orange. The two August birds from New flazelton are by plumage pure *auratus*.

21. Chordeiles virginianus. Nighthawk, Several seen at Hazelton by Spreadborough. Again noted by the writer the evenings of August 25 and 26, but not thereafter.

22. Cypscioides niger. Black Swift. Nearly every bright afternoon a flock of Black Swifts was seen over our camp. Keeping in a loose company they drifted up and down the valley, coming and going until near evening. They usually kept high up, but occasionally one stooped low enough to be collected. Two were so obtained August 29.

23. Chaetura vauxi. Vaux Swift. Reported by Spreadborough as fairly common and breeding at Hazelton. Not recognized by the writer.

24. Selasphorus rufus. Rufous Hummingbird. Several seen by Spreadborough at Hazelton.

25. Nuttaliornis borealis. Olive-sided Flycatcher. Three or four seen by Spreadborough at Hazelton, and one by the writer at New Hazelton. Two specimens taken, July 17 and in August.

26. Myiochanes richardsoni. Western Wood Pewce. Several heard by the writer August 24-27. Specimens taken June 28 and 30, July 16 and August 24.

27. Empidonax hammondi. Hammond Flycatcher. Spreadborough reports the Hammond Flycatcher as common. We have four adult specimens taken July 27 and 30, and two juveniles August 26 and 30. Both these latter are in the yellow-bellied phase and are so very similar to *flacutentris* as to be readily mistaken for that species, flowever, the throats are distinctly whitish, the green above grayish, and the bills and feet quite distinctive.

28. Empidonax wrlghti. Wright Flycatcher. Though not mentioned in Spreadborough's notes he took specimens June 28 and July 10. Another was taken August 25.

29. Cyanocitta stelleri. Steller Jay. But one seen by the writer, a specimen taken August 25. Spreadborough does not mention it in his notes, but took two specimens June 28. The only constant character 1 can see in *annectens* is the presence of the gray spot over the eye. The other particulars usually given as diagnostic are unstable and unsatisfactory for individual identification. One of these specimens, a male taken June 28, has the spot, therefore 1 call it *annectens*. The other two are without it and i can only regard them as *stelleri*. These birds are slightly bluer on the back than the majority of specimens, but can be matched by individuals in either race. These two forms have broad fields of ov-riapping in their distribution, and in such localities their separation is purely arbitrary.

30. Perisoreus canadensis. Canada Jay. Six, seemingly a pair with young, noted by Spreadborough, July 18, and three collected. These birds are similar to those taken in Jasper Park on the east slope of the Rockies. They have extensive white fore-crowns, and blue-black hind crowns. Fumifrons is a slightly defined and unstable race, otherwise

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they might be referred to that subspecies. As it is, I prefer to regard them provisionally as intergrades between *capitalis* and *canadensis*.

31. Corvus corax. Raven. A few seen by Spreadborough near Hazelton in July.

32. Corvus brachyrhynchos (sp?). Crow. Not common. Only a few seen by Spreadborough at Hazelton. None taken, so identity cannot be established. I assume that C. caurinus is a coast form and C. b. hesperis is a scarcely recognizable race.

33. Euphagus cyanocephalus. Brewer Blackbird. One pair with young noted by Spreadborough July 15. Two specimens taken.

34. Loxia curvirostra. American Crossbill. Several flocks observed by Spreadborough at Hazelton.

35. Leucosticte tephrocotis. Rosy Finch. Flve seen by Spreadborough July 16 at an elevation of 6000 feet. Two taken are both *httoralis*.
36. Spirus pinus. Pine Siskin Only one seen at a high altitude (5000 feet), by

36. **Spinus pinus.** Pine Siskin Only one seen at a high altitude (5000 feet), by Spreadborough, July 16. Observed in flocks in August at New Hazelton in the lowlands several times. Specimens taken August 25.

37. Zonotrichia leucophrys. White-crowned Sparrow. Not common. Spreadborough reports but two seen. One specimen, taken July 15, is typical gambeli.

38. Zonotrichia coronata. Golden-crowned Sparrow. Not common. Only one seen, by Spreadborough.

39. Spizella passerina. Chlipping Sparrow. Reported as common at Hazelton by Spreadborough, but not noted by the writer. One specimen, taken June 30, referred to *arizonae*.

40. Junco hyemalis. Slate-colored Jinno. One specimen falls under this species, no. 10963, adult male (skull granulated), Angust 26. It is straight *hyemalus* except for a slight but obvious amount of red edgings on the back against which the gray of the hind neck cuts sharply. There is no rutus on the sides at all and 1 regard it as *hyemalis* with a slight infusion of *oregonus* blood.

41. Junco oregonus. Oregon Junco. The commonest species present during the Augnst visit. Spreadborough reports it as a common breeder. Six specimens were taken in recognizable plumage, June 26 and July 5, 13, and 18, and two juveniles Augnst 24 and 25. Besides these, numerons striped juveniles were secured, whose exact identity can only be conclusively established from accompanying parents. The June and July birds are typical connectens, while the August specimens in first winter plumage show a strong tendency towards oregonus in the richer redness of the back. The fact that the heads and throats of these birds are grayish instead of black, somewhat similar to hypemalis, I attribute to age rather than racial affinity. It thus seems that we have three forms of Juneo at Plazelton, nearly pure hypemalis, connectens and connectens tending toward oregonus.

42. Melospiza melodia. Song Sparrow. Reported by Spreadborongh to be not common, and only half a dozen specimens noted during his stay. In August a few wero seen daily, but most were juveniles or in worn plumage. Seven specimens taken. These all appear to me to be *rutina*.

43. Melospiza lincolni. Lincoln Sparrow. Two seen at Hazelton by Spreadborough, June 26 and after. Three taken June 26 to July 17. Though 1 can perceive a slightly more olivaceous cast in fall birds from the west compared with eastern specimens, the difference in my opinion is too slight for subspecific recognition. I include them therefore under the typical form *lincolni*.

44. **Piranga ludoviclana.** Western Tanager. Common breeder at Hazelton according to Spreadborough, thengh the species was not observed by the writer in August. Four specimens taken June 27 to July 9.

45. Iridoprocne bicolor. Tree Swallow. Reported fairly common by Spreadborough at Hazelton, though not seen by the writer later. Specimen taken duly 15.

46. **Tachycineta thalassina**. Violet-green Swallow. According to Spreadborough, a common breeder at flazelton in June and July, though not seen by the writer in August at New Hazelton.

47. **Stelgidopteryx serripennis.** Rough-winged Swallow Reported by Spreadborough to have been fairly common on the river in June and July, but not observed by the writer in August. One specimen taken July 4.

48. Vircosylva olivacea. Red-eyed Virco. Several seen by Spreadborough at Hazelton In June and July. Not noted at New Hazelton in August.

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49. Vircosylva gilva. Warbling Virco. Fairly common at both Hazelton and New Hazelton. Nine specimens taken. I cannot see that these birds are any darker than eastern ones. If anything, they are slightly lighter and brighter in color. They certainly do not show any differences in measurements. The bills are slightly smaller and lighter, but in so illusive a degree as to make this feature of little value in separating them from gilva.

5ⁿ Vermivora celata. Orange crowned Warbler. One Orange-crown taken August 28. It is too juvenile a bird to make subspecific pronouncement upon.

51. Dendroica aestiva. Yellow Warbler. Several seen by Spreadborough in June and July. But one noted in August. Three specimens taken, June 24 and 30, and August 28. These specimens seem to exhibit the racial characters of *rubiginosa* better than do most of our British Columbia birds, and therefore may be referred to that race.

52. Dendroica coronata. Myrtle Warbler. One specimen, a juvenile female, taken August 28, may be of this species. By tail spotting it might be either *coronata* or *auduboni*, and 1 cannot decide whether a faint tint on the throat is staln or a suggestion of the yellow throat patch.

53. Dendroica auduboni. Andnbon Warbler. Commen in June and July, and two-seen in August. Five specimens taken, June 23 to July 18, and August 28.

54. Dendroica magnolia. Magnolia Warbler, Not uncommon. Spreadborough reports seeing flve pairs that, from their actions, were probably breeding. Two were taken in August. Five specimens in all were taken.

55. Dendroica striata. Black-poll Warbler. One juvenile female taken August 25.

56. Dendroica townsendi. Townsend Warbler. Two seen August 25.

57. Sciurus noveboracensis. Northern Water-Thrush. On June 28 Spreadborough took two, and thereafter noted a number, always in low wet woods. These specimens exhlbit the rather faint characters of *notabilis* in their highest degree.

58. **Operornis tolmici**. Maegillivray Warbler. Common in low bushes on burntground in June and July, and seen again August 20 and 24. Four specimens taken.

59. Geothlypis trichas. Maryland Yellowthront. One seen and collected August 25. This is a juvenile bird that cannot be confidently referred to a subspecies.

60. Wilsonia pusilla. Wilson Warbler. One seen August 25. As it is only a sight record no subspecific designation can be given. *Pulcolata* is the geographic probability.

61. Setophaga ruticilla. Redstart. Common. Slx specimens taken, June 24 to July 10, and August 26 to 29.

62. Certhia familiaris. Brown Creeper. Two collected by Spreadborough, July 7 and 17. As these are juveniles they are referred to *zelotes* by geographic probability.

63. Sitta canadensis. Red-breasted Nuthatch. Several seen by both Spreadborough and the writer. Specimen taken June 24.

64. Penthestes atricapillus. Black capped Chickadee. One of the commonest birds. Five specimens taken, June 35 to 25, and Adgust 26 to 28. All are *septentrio-nalis*.

65. **Regulus calendula**. Ruby-crowned Kinglet. A small flock seen August 25. The brush was very dense and birds shot could not be found, hence no specimens.

66. Hylocichia ustulata. Olive-backed Thrush. Reported by Spreadborough as common and breeding. In August thrushes were so shy and retiring that their specific identity was difficult to determine nulcss the birds were collected. Two specimens taken July 6, and three August 25 and 26. Though these birds are very slightly more olive that eastern spechnens, 1 do not care to separate them from *swaussoni*.

66. **Hylocichla guttata**. Hermit Thrush, Thrushes were often heard and glimpsed In August, but seldom seen plainly enough for identification. Three specimens were taken August 26. All are juveniles, and but one sufficiently advanced to base subspecific identity upon. I cannot separate is from *pallasi*.

67. Planesticus migratorius. American Robin. Abundant in June and July, and a few seen daily in August. Four specimens taken. I do not see in them sufficient grounds for separation from eastern *migratorius*.

68. Ixoreus naevius. Varied Thrush. One seen by Spreadborough July 20.

69. Sialia currucoides. Mountain Bluebird. Reported by Spreadborough as being common in burnt tlmber in July. It was not seen by the writer personally in Aug-

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ust, though reports were received, leaving little doubt as to its presence in the vicinity. Five specimens taken, July 5 and 6.

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