

Honorary memberships in the Club were conferred on Dr. Alice Wilson and Mr. Herbert Groh.

Murphy-Gamble's Department store put one of their display windows at the disposal of the Club for the period from November 1st to 6th. There, an excellent display, in the main ornithological, was made. There were also many exhibits on the ground floor of the store.

The Newsletter, organ of the local membership, gave considerable space to the

Anniversary. All the newspapers of the Capital area and the Canadian Press were given material concerning the Club and its activities. The newspapers were most generous of space, and the public of Ottawa was given several excellent accounts of the Club and its work.

The arrangements for the celebration of the 75th Anniversary were made by a Special Committee under the Chairmanship of Rev. Father F. E. Banim.

BIBLIOGRAPHIC SURVEY OF JAMES FLETCHER'S FLORA OTTAWAENSIS^{1, 2}

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THREE ENUMERATIONS of the vascular plants of the Ottawa District have been published in the past, in 1867, 1880, and 1888-93 respectively. The first was presumably prepared by B. Billings and appeared as the liminary paper of the Transactions of the Ottawa Natural History Society, 1: 1-16. 1867 (?) under the title "List of Plants Collected by Mr. B. Billings in the vicinity of the City of Ottawa, during the summer of 1866". It is a mere listing of plants with dates of collection but without localities or habitats. A few additions made in 1867 are listed at the end. There is some doubt as to the exact date of publication of Billings's list.

The second and third enumerations were published in parts by James Fletcher over a period of 14 years. A detailed bibliography of these papers is given below.

A fourth enumeration was undertaken by John Macoun, but was not published. The manuscript, which is preserved at the National Museum of Canada, is in Macoun's handwriting. It is complete from *Actaea* to *Isoetes*, and lists 1126 taxa for the Ottawa District. The author mentions in each case whether the plant occurs on the Quebec or Ontario side of the river, or both. The manuscript is 45 pages long and is entitled "List of Ottawa Plants".

The manuscript enumeration left by Macoun was the basis for successive revisions by M.O.

Malte. The last and most complete of these redrafts is a fat manuscript of about 671 pages, some of which are missing. It is largely typewritten and is entitled "The Ottawa Flora". This last text includes extensive keys, descriptions, synonymy, local distribution and numerous references to individual collections.

James Fletcher³, the author of the second and third enumerations, was born in 1852 and was one of the founders of the Ottawa Field-Naturalists' Club. Prior to the organization of the Dominion Experimental Farms he acted as Dominion Entomologist to the Department of Agriculture, a title conferred on him in 1884. On July 1, 1887, he was appointed Entomologist and Botanist to the Dominion Experimental Farms and was transferred from the Library of Parliament to the Staff of the Farms, and up to the spring of 1895, he had charge of the Arboretum and Botanic Garden at the Central Experimental Farm.

It is during that period of time that, under the collective title of "Flora Ottawaensis" and its variants, James Fletcher published some 29 articles on the flora of the Ottawa District, comprising two successive enumerations of the vascular plants and *Sphagna* of the area plus miscellaneous notes and additions.

Unfortunately many of these papers are affected by bibliographic irregularities. The paging of one of these papers was incorrect (see entry number 21)⁴, three were reprinted with a change of paging and quite a few

1) Received for publication February 16, 1954.

2) Contribution No. 1374 from the Botany and Plant Pathology Division, Science Service, Department of Agriculture, Ottawa, Ontario, Canada.

3) See James Fletcher Memorial Number, *Ott. Nat.* 22: 189-234. 1909.

others were issued with a separate paging as a supplement to the Ottawa Naturalist. For convenience we have numbered these papers in sequence as published. No such numbers appear on the originals.

Many of the papers listed below were published without clear indication of authorship. In the absence of any evidence to the contrary, we have assumed that all were prepared by James Fletcher, except entries 10 and 24. The latter two include some mosses and we have assumed that these lists of bryophytes were prepared by John Macoun. Names of presumed authors have been set off in [square brackets] in the following enumeration.

1—Fletcher, James, FLORA OTTAWAENSIS, Ott. Field-Nat. Club, Trans. 1 (vol. 1 no. 1); 43-61. 1880. An enumeration of all the vascular plants of the Ottawa District; total 800 entities, a few unnamed. No comments or localities. The names in italics appear to indicate introduced plants. The Candolleian order is apparently followed. This is the first edition of the Flora Ottawaensis.

2—[Fletcher, James], FLORA OTTAWAENSIS. ADDITIONS TO LIST OF 1879-1880, Ott. Field-Nat. Club, Trans. 2 (vol. 1, no. 2): 41. 1881. A list of additions to the previous list (entry no. 1) without annotations or localities.

3—[Fletcher, James], ERRATA — FLORA OTTAWAENSIS, Page 41, Ott. Field-Nat. Club, Trans. 2 (vol. 1, no. 2): 41, 1881. This consists of a half-page of corrections pasted in opposite page 41. The errata refer to entry no. 2.

4—[Fletcher, James], APPENDIX. FLORA OTTAWAENSIS; ADDITIONS TO PREVIOUS LISTS, Ott. Field-Nat. Club, Trans. 3 (vol. 1, no. 3): 23. 1882. A half-page list of additions, without localities or annotations. This was published as an appendix to the Report of the Botanical Branch for the Season of 1881, by B. Small and R. B. Whyte.

5—[Fletcher, James], APPENDIX. FLORA OTTAWAENSIS; ADDITION TO PREVIOUSLY PUBLISHED LISTS, Ott. Field-Nat. Club, Trans. 4 (vol. 1, no. 4): 73. 1883. A full page of additions with dates and names of collectors. Published as an appendix to the Report of the Botanical Branch for the Season of 1882, by R. B. Whyte & B. Small.

6—Fletcher, James, NOTES ON THE FLORA OTTAWAENSIS, WITH SPECIAL REFERENCE TO THE INTRODUCED PLANTS, Ott. Field-Nat. Club, Trans. 5 (vol. 2, no. 1): 29-37. 1884. This paper starts with a discussion of the previously published lists and additions of the Flora Ottawaensis. The Ottawa District is defined for the purpose of the Flora Ottawaensis as being an area of 12 miles radius with the city as its centre. Five entities are subtracted from the previous lists and a few others are discussed. The adventive vegetation is reviewed. A list of 194 introduced plants is given; they are in order of aggressiveness and the names in italics indicate entities that are considered to exist in the area both as native and introduced plants.

7—[Fletcher, James], FLORA OTTAWAENSIS. (ADDITIONS MADE IN 1883), Ott. Field-Nat. Club, Trans. 5 (vol. 2, no. 1): 126-7. 1884. Additions with locality, date, and collector. Follows the Report of the Botanical Branch, by J. Macoun, R. B. Whyte and J. Fletcher and precedes Appendix A of the same report.

8—[Fletcher, James], FLORA OTTAWAENSIS. ADDITIONS, 1885, Ott. Field-Nat. Club, Trans. 7 (vol. 2, no. 3): 363. 1887. Additions with locality, date and collector. Follows the Report of the Botanical Branch, by R. B. Whyte, J. Macoun and B. Small and like previous similar entries no. 4, 5 and 7, appears to be part of the report.

9—[Fletcher, James], ADDITIONS TO THE "FLORA OTTAWAENSIS", Ott. Nat. 1: 77. 1887. A short note giving six additions with locality, date, and collector. Follows the Report of the Botanical Branch, by R.B. Whyte, S. Woods and H.B. Small. Like the preceding, appears to be part of the report.

10—[Fletcher, J. & J. Macoun] FLORA OTTAWAENSIS. (ADDITIONS MADE IN 1887.), Ott. Nat. 2: 26. 1888. A full page of additions with locality and collector, including eight mosses collected by "Prof. Macoun", which leads us to believe that John Macoun was co-author of the paper. Follows the Report of the Botanical Branch for the Season of 1887.

11—Fletcher, James, FLORA OTTAWAENSIS, Ott. Nat. 2: 28-32. 1888. This is the second edition of the Flora Ottawaensis. It begins with a two page justification of the opus and continues with an enumeration of the flora, starting with *Clematis* through *Actaea*. The order followed is that of J.

4) For other irregularities in paging of the same journal, see W. J. Cody and B. Boivin, The Canadian Field-Naturalist and its Predecessors. Can. Field-Nat. 68 (3): 127-132. 1954.

Macoun, Cat. Can. Pl. 2 vols. in 5 parts, 1883-1890. The numbers used for species are also those of Macoun. Under each taxon is mentioned one or more vernacular or Benthamian names, the habitat and main flowering period (in quarters of a month). The letter (B) indicates entities previously mentioned by [B. Billings], List of Plants Collected by Mr. B. Billings in the vicinity of the City of Ottawa during the Summer of 1866, Trans. Ott. Nat. Hist. Soc. 1: 1-16. 1867 (?). Frequency of occurrence and localities are given for all species that are not common. Collectors are mentioned when others than J. Fletcher himself. Introduced plants are set off by *italics*. An asterisk (*) designates the first collection for the District. For the purpose of this second edition, the Ottawa District has been redefined as an area of "about 30 miles so as to include Casselman on the one side, and Wakefield on the other; and up the river as far as Chats Rapids and down to Buckingham.

12—[Fletcher, James], (FLORA OTTAWA-ENSIS. — CONTINUED FROM PAGE 32.), Ott. Nat. 2: 61-4. 1888. Continuation of the preceding from *Menispermum* through *Cardamine*. See entry 11.

13—[Fletcher, James], (FLORA OTTAWA-ENSIS. — CONTINUED FROM PAGE 64.), Ott. Nat. 2: 77-80. 1888. Continuation of the preceding installment from *Cardamine* through *Lychnis*. See entry 12.

14—[Fletcher, James], FLORA OTTAWA-ENSIS, Ott. Nat. 2: 104. 1888. A short quarter page note which reads as follows: "It has been decided by Council to reprint the 13 pages of the "Flora Ottawaensis" which have so far appeared, and for the future to keep a separate pagination for that part of the Ottawa Naturalist. This is done to meet the wishes of several of the members who have expressed a desire to have these pages printed in such a manner that they may be separated from the monthly numbers without injuring the rest of the volume". The reprint promised did not appear until fascicle 12 of volume 2. See entry 18. The paging, however, was modified at once and the next installment of the Flora Ottawaensis, entry 15, occurs immediately after page 104, but is paged 14 to 21. The separate paging thus given to the Flora Ottawaensis has resulted in a certain amount of duplication in paging in vols. 2, 3, 4 and 7.

15—[Fletcher, James], Ott. Nat. 2: 14-21. 1888. No title. Continuation, from *Saponaria* to *Apios*, of previous installment, see entry 14, and of reprinted text, see entry 18. The paging runs from 14 to 21 and is continuous from the text of the reprint published more than six months later, see entry 18. This installment was published somewhat as a supplement to the regular issue but was of one fascicle with the preceding text and was meant to be cut off by those interested, as explained under entry 14. The latter remark also applies to entries 16, 17 and 23.

16—[Fletcher, James], Ott. Nat. 2: 22-41. 1889. No title. Printed consecutively after page 116. Continuation, from *Amphicarpaea* to *Aster*, of previous installment, see entry 15.

17—[Fletcher, James], Ott. Nat. 2: 42-45. 1889. No title. Printed consecutively after page 144. Continuation from *Aster* to *Senecio*, of previous installment, see entry 16.

18—[Fletcher, James], FLORA OTTAWA-ENSIS, Ott. Nat. 2: 1-13. 1889. With unnumbered title-page. This is a reprint, in a slightly modified form, of entries 11, 12 and 13. The text is substantially identical, but has been reset so that the paging is slightly modified. A title page has been added. Printed as a separate fascicle sewn in at the end of issue no. 12, where it follows page 157 and page ii of the index. See entry 14 for the explanation of this reprint and entry 15 for continuation of the text.

19—[Fletcher, James], Ott. Nat. 3: 46-49. 1889. No title. Printed on a single sheet of paper, folded to form 4 pages and issued lightly glued in after page 44. Continuation, from *Senecio* to *Andromeda*, of previous installment, see entry 17.

20—[Fletcher, James], Ott. Nat. 3: 50-61. 1889. No title. Printed as two fascicles inserted loose after page 80. Other installments similarly printed as loose fascicles are 21, 22, 26, 27, 28. Continuation, from *Kalmia* to *Melampyrum*, of previous installment, see entry 19.

21—[Fletcher, James], Ott. Nat. 3: 62-69. 1889. No title. Incorrectly paged 121-8. Issued as a loose fascicle inserted after page 116. Continuation, from *Epiphagus* to *Polygonum*, of previous installment, see entry 20.

22—[Fletcher, James], Ott. Nat. 3: 70-73. 1890. No title. Issued as a loose fascicle inserted after p. 160. Continuation from *Polygonum* to *Daphne*, of previous installment, see entry 21.

23—[Fletcher, James], Ott. Nat. 4: 74-77. 1890. No title. Printed consecutively after page 40 as part of the same fascicle as the rest of issue 2. Continuation, from *Dirca* to *Alnus*, of previous installment, see entry 22.

24—[Fletcher, J. & J. Macoun], FLORA OTTAWAENSIS, Ott. Nat. 5: 82-84. 1891. This paper is a list of additions published immediately after the Report of the Botanical Branch, 1890, by J. Fletcher, R.B. Whyte and W. Scott. Entry 24 comprises first a three-quarter-page list of additions, with locality, date and collector, presumably prepared by James Fletcher. This is immediately followed by a list of *Sphagna* under the subtitle "LIST OF THE SPECIES OF THE GENUS SPHAGNUM FOUND AT OTTAWA" and presumably prepared by John Macoun. This and entry 10 are the only two parts of the Flora Ottawaensis which actually list mosses. Otherwise the bryophytes of the Ottawa District were dealt with mainly in two lists published, the first one as a single paper in Trans. 7: (vol. 2, no. 3), the second one in installments beginning with Ott. Nat. 11: 129. 1897 & sequ.

25—[Fletcher, James], FLORA OTTAWAENSIS. ADDITIONS MADE SINCE LAST REPORT, Ott. Nat. 5: 204. 1892. A half-page of additions with locality and collector. Follows the Report of the Botanical Section, 1891, by J. Fletcher, W. Scott and R.H. Cowley.

26—Fletcher, James, FLORA OTTAWAENSIS, Ott. Nat. 7: 67. 1893. A short note explaining the reasons for the delay in completing the Flora Ottawaensis. Also explains for the new readers how this flora is being published as a supplement to the Ottawa Naturalist.

27—[Fletcher, James], Ott. Nat. 7: 78-85. 1893. No title. Issued as a loose fascicle inserted after page 68. Continuation, from *Alnus* to *Spiranthes*, of previous installment, see entry 23.

28—[Fletcher, James], Ott. Nat. 7: 86-93. 1893. No title. Issued as a loose fascicle inserted after page 84. Continuation, from *Spiranthes* to *Sparganium*, of previous installment, see entry 27.

29—[Fletcher, James], Ott. Nat. 7: 94-101. 1893. No title. Issued as a loose fascicle inserted after page 100. Continuation, from *Arisaema* to *Scirpus*, of previous installment, see entry 28.

Another 25 pages or so and the Flora Ottawaensis would have been completed. But it never was. Fletcher died in 1908 and in the Memorial Number, Ott. Nat. 22: 206. 1909, we read, concerning the Flora Ottawaensis: "His great regret was that his official duties prevented him from finishing that work".

For a general bibliography of Dr. Fletcher's writings see A. Gibson and H. Groh, The published writings of Dr. Fletcher, Ott. Nat. 22: 227-234. 1909.

FIRST RECORDS OF EIGHT SPECIES OF FISHES IN SASKATCHEWAN¹

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FIELDWORK for projects of the Saskatchewan Fisheries Laboratory has provided many opportunities for the collection of fishes in the province. Several of the collections merit published record because they represent major extensions of known ranges. None of these species are listed by Rawson (1949) in his checklist, while other references to distribution either do not mention Saskatchewan waters or tend to make vague generalizations concerning western distribu-

tion. This list adds two families and five genera to the fish fauna of this province and suggests that further ichthyological collecting throughout Saskatchewan would be worth while. Collecting has been done by the authors, and specimens have been contributed by H. S. Swallow and P. H. Edwards. Dr. W. B. Scott has identified all species except the carp, brown bullhead, and sheepshead, and the collections which he has examined have been retained in the Royal Ontario Museum of Zoology at Toronto.

¹) Received for publication November 8, 1954.



Boivin, Bernard and Cody, William J. 1955. "Bibliographic survey of James Fletcher's Flora Ottawaensis." *The Canadian field-naturalist* 69(3), 79–82.
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