

PROVINCE OF BRITISH COLUMBIA

REPORT

OF THE

PROVINCIAL MUSEUM

OF

NATURAL HISTORY

AND

ANTHROPOLOGY

FOR THE YEAR 1941



PRINTED BY  
AUTHORITY OF THE LEGISLATIVE ASSEMBLY.

VICTORIA, B.C. :  
Printed by CHARLES F. BANFIELD, Printer to the King's Most Excellent Majesty.  
1942.

To His Honour W. C. WOODWARD,  
*Lieutenant-Governor of the Province of British Columbia.*

MAY IT PLEASE YOUR HONOUR:

The undersigned respectfully submits herewith the Annual Report of the Provincial Museum of Natural History and Anthropology for the year 1941.

GEORGE S. PEARSON,  
*Provincial Secretary.*

*Provincial Secretary's Office,  
Victoria, B.C.*

PROVINCIAL MUSEUM OF NATURAL HISTORY  
AND ANTHROPOLOGY,

VICTORIA, B.C., December 31st, 1941.

*The Honourable George S. Pearson,  
Provincial Secretary, Victoria, B.C.*

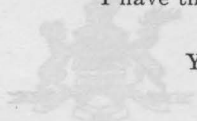
SIR,—The undersigned respectfully submits herewith a report of the activities of the Provincial Museum of Natural History and Anthropology for the year 1941.

I have the honour to be,

Sir,

Your obedient servant,

G. CLIFFORD CARL,  
*Acting Director.*



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## DEPARTMENT of the PROVINCIAL SECRETARY.

The Honourable GEORGE S. PEARSON, *Minister.*

P. WALKER, *Deputy Minister.*

### PROVINCIAL MUSEUM OF NATURAL HISTORY AND ANTHROPOLOGY.

#### *Staff:*

G. CLIFFORD CARL, Ph.D., *Acting Director.*

WINIFRED V. HARDY, *Botanist* (to April 30).      GEORGE A. HARDY, *Botanist* (from May 1).

MARGARET CRUMMY, B.A., *Stenographer.*      LILLIAN C. SWEENEY, *Assistant Preparator.*

E. A. COOKE, *Laboratory Assistant and Attendant.*

H. H. PEGLER, *Attendant.*

### PROVINCIAL MUSEUM OF NATURAL HISTORY AND ANTHROPOLOGY.

#### OBJECTS.

- (a.) To secure and preserve specimens illustrating the natural history of the Province.
- (b.) To collect anthropological material relating to the aboriginal races of the Province.
- (c.) To obtain information respecting the natural sciences, relating particularly to the natural history of the Province, and to increase and diffuse knowledge regarding the same.

(Section 4, "Provincial Museum Act," 1913.)

#### ADMISSION.

The Provincial Museum is open to the public, free, week-days, 9 a.m. to 5 p.m.; and on Sunday afternoons, 1 p.m. to 5 p.m., from May 1st to October 31st.

By special arrangement the Museum remained open on Sunday afternoons during October, November, and December, 1941, and will continue on the same schedule until further notice.

DEPARTMENT of the PROVINCIAL SECRETARY

The Honourable GEORGE S. FEARSON, Minister  
T. WALKER, Deputy Minister

PROVINCIAL MUSEUM OF NATURAL HISTORY AND ANTHROPOLOGY

1941

G. CLIFTON CARL, Ph.D., Acting Director  
WILLIAM V. HANBY, Botanist (to April 30), GEORGE A. HANBY, Botanist (from May 1)  
MARGARET GUNN, B.A., Stenographer, WILLIAM C. SWENNEY, Assistant Registrar  
E. A. COOK, Librarian and Attendant, H. H. PEARSE, Attendant

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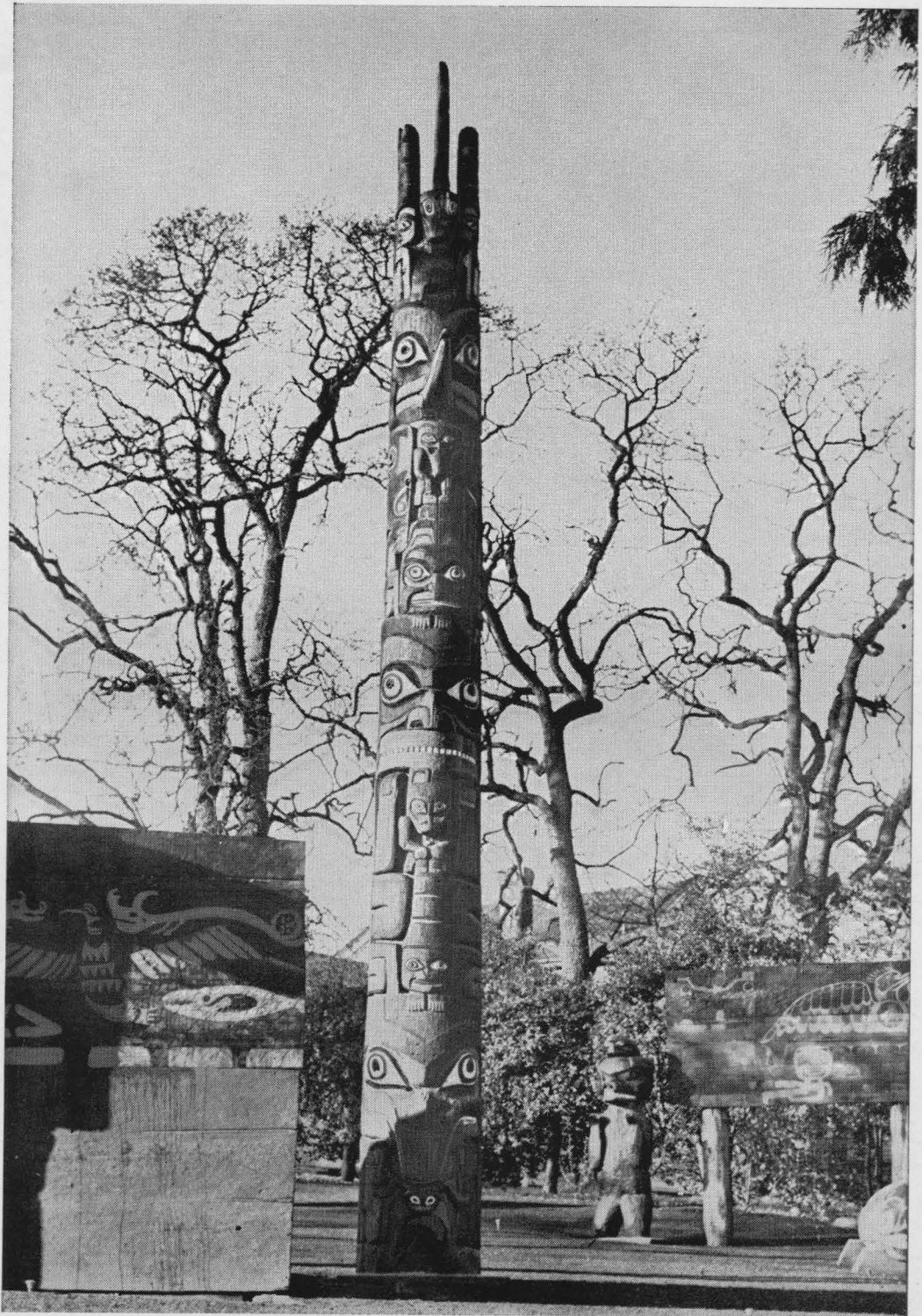
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(Courtesy B.C. Government Travel Bureau.)

A portion of Thunderbird Park, Victoria, B.C.

REPORT of the PROVINCIAL MUSEUM  
FOR THE YEAR 1941.

REPORT OF THE ACTING DIRECTOR.

During the year 1941 the Provincial Museum has continued to serve the public in the fields of natural history and anthropology. The following report includes an account of the activities of the museum during this period, together with lists of specimens collected by the staff or received as gifts.

THUNDERBIRD PARK.

During the spring months the installation of totem-poles, house fronts, and other Indian carvings in Thunderbird Park was completed and the area was officially opened to the public on May 24th. The dedicatory programme consisted of addresses by Mayor Andrew McGavin and Premier T. D. Pattullo, followed by a series of dramatized versions of ancient legends of Okanagan Indians presented by children of the Inkameep Reserve at Oliver, B.C. The plays were directed by Mr. Anthony Walsh and the presentation was arranged by Major L. Bullock-Webster, Provincial Director of School and Community Drama.

By day the exhibits arranged within the park are shown to good advantage against a natural background of native trees, and by night, when the area is lit by flood-lights, the carvings stand out in striking contrast against the dark background. The park has attracted wide attention and has received much favourable comment, particularly from tourists and other out-of-town visitors.

A booklet has been compiled and issued by the Department of Trade and Industry, giving a short account of the origin of art among the native tribes of the British Columbia coast and including notes on each exhibit to be seen in the park. This brochure is available on application at the British Columbia Government Travel Bureau or the Provincial Museum.

EXHIBITION AND PREPARATION.

Several new exhibits have been completed and have been put on display during the past year. Of special interest are scale models of the house-fly and the common earwig, prepared by Mrs. L. C. Sweeney, assisted by other members of the staff. These models, being twenty to thirty times life size, show clearly the structure of these household pests.

Another addition which has attracted considerable attention is a "working model" of the Pacific rattlesnake which is found in the Interior of the Province. In this exhibit the "rattle" is vibrated vigorously by a concealed electric motor controlled by a push-button.

In the palæontological section a small display has been set up to demonstrate various types of fossils, showing examples of true fossils and also objects which are not true fossils. Another case contains a recently acquired specimen of dinosaur footprints on shale found in the workings of the Crow's Nest Coal Company and a collection of trilobites (extinct crustaceans) from Cranbrook, B.C.

On the main floor, at the foot of the staircase, a miniature fish-hatchery has been installed. Here it is possible to see eggs or fry of trout and salmon in various stages of development, according to the season. The Museum is much indebted to the Fisheries Research Board of Canada and to the Provincial Game Commission for fish-eggs supplied by their organizations.

In the botanical section the principal addition is a collection of models of local mushrooms and other fungi, prepared by Mrs. Sweeney and Mr. Hardy. These models are faithful reproductions of both common and rare forms and are accompanied by labels giving the name and habitat of each species. It is planned to expand this display to include as many local forms as possible.

In the fish section, models of the following have been completed or are in the process of being made: Sucker, tench, perch, fresh-water sunfish, black bass, sea bass, long-spined greenling, rockfish, sculpin, mackerel scad, butterfish, marine sunfish, chum salmon, and lamprey. These will be placed on display when space is made available.

Among the Indian materials are three new exhibits arranged by Miss Walker. The first display attempts to show various methods of wood-working, using examples from several tribes of the Province. The second demonstrates the costume and accessories worn and used by the "Hamatsa," or so-called "Cannibal Dancer" of the Kwakiutl Tribe. A manikin posed in a characteristic position of the dancer shows off the ceremonial costume to advantage. The third display consists of materials and tools used by Salish Indians of the Coast in the weaving of woollen blankets. Labels explain the steps in the process from unspun raw wool to the finished product.

In co-operation with the Society for the Preservation of Native Plants the museum staff has prepared a series of wild-flower photographs in natural colour. These are in the form of 2-inch lantern-slides and are intended for lecture illustrations and for use in the schools of the Province. They are to be accompanied by suitable lecture notes which are now being prepared.

#### LOAN EXHIBITS.

During the year the Museum has loaned various anthropological materials to other institutions or organizations as follows:—

Vancouver Art Gallery—July 10th to August 22nd.

Exhibit, Princess Alice Reception—March 31st.

Exhibit, Canadian Authors' Convention—August 25th.

Pacific Northwest Library Convention—August 27th to 29th.

Society for the Furtherance of Indian Arts and Crafts, Victoria—July 21st to 26th.

Institute of Technology and Art, Calgary—November 23rd to December 8th.

The recently completed models of the house-fly and the common earwig were displayed in the exhibit sponsored by the Dominion Insect Laboratory during the Vancouver Exhibition at Hastings Park, August 25th to September 1st, and again at the Provincial Exhibition at Willows Park, September 6th to 13th.

In addition to loaning exhibits the Museum has shown exhibits obtained from outside sources. The first of these was a display of oil paintings of native wild flowers by Mrs. A. E. Planta, of Nanaimo, B.C. These paintings were loaned by Mrs. Planta and were exhibited in the Museum during the period March 18th to April 16th. A second exhibition consisted of material submitted by students of rural schools and was held under the auspices of the Society for the Preservation of Native Plants. The material on display consisted of natural history specimens, drawings, models, bird-houses, and other types of handicraft. These were on view from June 11th to June 21st.

#### FIELD-WORK.

During the period May 17th to June 15th the Acting Director, accompanied by Dr. I. McTaggart Cowan, of the Department of Zoology, University of British Columbia, made a trip through the Okanagan Valley and Kamloops region for the purposes of collecting specimens of natural history for the Museum. Stops were made at Osoyoos, Anarchist Mountain, Oliver, Penticton, Westbank, Okanagan Landing, and Kamloops, and at these places special efforts were made to obtain specimens not already represented in the Museum collections. At Kamloops the facilities of the Field Station (Lac du Bois) and the Laboratory (Mission Flats) were placed at the disposal of the party. Thanks are due to Mr. E. R. Buckell and Mr. G. Allen Mail, of the Dominion Entomological Branch, for these services.

On several occasions during the season trips were made to the nesting-grounds of cormorants and gulls on certain islands in Georgia Strait for the purpose of making a moving-picture film as noted in the following section. Other collecting trips were made to Stamp Falls, Alberni (June 21st to 23rd), Cultus Lake (June 27th), Lake Cowichan, and Sooke. During the week ending November 18th, Mr. E. A. Cooke visited Estevan Point, on the west coast of Vancouver Island, for the purpose of recovering parts of a whale skeleton reported stranded at that place. The courtesies extended by Commissioner T. W. S. Parsons and the officers and crew of the "P.M.L. 14" on this occasion are much appreciated.

Once more the Museum was fortunate in receiving the co-operation of Mr. and Mrs. J. F. Stanwell-Fletcher, of Dimock, Pennsylvania, who again spent many months in the Driftwood River area near Takla Lake, B.C., collecting information and specimens of natural history. As a result of their field-work the Museum has received valuable specimens of both animals and plants from this little-known district.



## MOTION-PICTURE PRODUCTION.

In order to obtain pictures for lecture material a natural colour moving-picture film of nesting sea-birds has been produced during the past season. The subjects selected were colonies of double-crested cormorants and glaucous-winged gulls nesting on Ballingall (Twin) Islets, Trincomali Channel, and on Yellow Island and Bare Island, near Sidney. During visits to these colonies on April 28th and 29th, June 17th and 18th, and July 22nd and 23rd pictures were taken of nests, eggs, and several stages of young of these birds and from this material a 400-foot film has been made. This film is intended for distribution to schools and other organizations within the Province. Copies have been acquired by the British Columbia Government Travel Bureau for their film library and by the Alberta Wheat Pool for circulation in the Prairie Provinces.

As photographer for this project the Museum was most fortunate in obtaining the services of Mr. C. R. D. Ferris, of the British Columbia Travel Bureau, whose technical skill and wide experience in cinematography contributed much to the success of the picture. Thanks are due also to Mr. A. A. Sherman, Dominion Fisheries Guardian, Cowichan Bay, who co-operated whole-heartedly in supplying his services and that of his boat.

## CATALOGUING.

The cataloguing of anthropological, botanical, and zoological specimens has continued throughout the year as new material has been added, and another group—the fishes—has been included in this system. This group, not hitherto catalogued, numbers 492 specimens and is increasing in value as new collections are being made. Many of the species are represented by models for display as noted in another section of this report. A card-index to the fishes, amphibians, and reptiles in the Museum is being compiled.

## PUBLICATIONS.

During 1941 the following papers have been published through the Museum:—

Beware the broken egg! G. Clifford Carl, *Progressive Fish-Culturist*, No. 53, pp. 30-31. 1941.

Insularity in the Genus *Sorex* on the north coast of British Columbia. I. McTaggart Cowan, *Proceedings of the Biological Society of Washington*, Vol. 54, pp. 95-108. 1941.

Longevity of the red-legged frog. I. McTaggart Cowan, *Copeia*, No. 1, p. 48. 1941.

Studies of waterfowl in British Columbia. The Grebes. J. A. Munro, *Occasional Papers, British Columbia Provincial Museum*, No. 3, pp. 1-71. December, 1941.

In addition to the above the Museum contributed to the compilation of a brochure issued by the British Columbia Government Travel Bureau, Department of Trade and Industry, in connection with Thunderbird Park.

Two articles by the Acting Director also appeared in newspapers as follows:—

"The Provincial Museum." *Victoria Colonist*, June 15th, 1941.

"Not all fish in Island waters are truly native." *Victoria Colonist*, August 31st, 1941.

The first-listed contribution contained several illustrations showing staff members at work and also new exhibits on display.

## LECTURES AND DEMONSTRATIONS.

During the year the Acting Director delivered ten lectures at schools and other organizations.

As a new venture, Mrs. Sweeney gave three demonstrations of model-making to schools in Saanich Municipality under the auspices of the Society for Preservation of Native Plants.

## STAFF CHANGES.

On April 30th, Mrs. G. A. Hardy resigned from the Museum staff after occupying the position of Botanist since 1936. Previous to this appointment Mrs. Hardy had been associated with the Museum for a number of years, first as Stenographer and later as Botanist and Recorder. Since leaving the staff she has maintained her interest in the form of voluntary assistance, which is much appreciated.



On May 1st, Mr. G. A. Hardy was appointed to the position of Botanist, a position held by him some years previously. His wide experience in the fields of botany and entomology enables him to contribute much to the work of the Museum.

During July and August the Museum was fortunate in receiving the voluntary assistance of Miss E. Walker, a graduate in Anthropology of the University of California. During this period Miss Walker undertook to check over the entire collection of Indian material as well as bringing the catalogue up to date, carrying out certain literature research and arranging special exhibits of Indian materials. Her assistance was of great help to the Anthropological section.

#### ATTENDANCE.

The number of visitors to the Museum during the year 1941 has shown a marked increase over the former year and, in fact, exceeds all records since 1937. This is the result of a number of factors, among which are increased numbers of tourists, increased population in the Victoria region, and increased open periods of the Museum.

With regard to the latter, it may be noted that in this year the usual practice of closing the building on Sundays during the winter was not adopted. Remaining open on Sunday afternoons has appealed particularly to men in uniform, who have attended in some numbers. A total of 8,117 visitors registered during the months of October, November, and December as compared with 4,070 for the same period in 1940. It is thought that the greater part of the increased attendance during these months is due to the Sunday opening.

On the evening of September 9th the Legislative Buildings were opened for a reception for members and guests of the P.E.O. organization as a contribution to their convention programme. During the tour of inspection which followed several hundred visitors were guided through the Museum Building by members of the staff.

The following figures give the numbers of visitors registered and the number checked by the staff during the year 1941:—

	Registered.	Checked.
January .....	1,720	1,934
February .....	1,111	1,814
March .....	1,353	2,156
April .....	1,952	3,367
May .....	2,895	4,675
June .....	4,595	7,528
July .....	8,043	12,230
August .....	7,437	11,445
September .....	3,768	6,751
October .....	2,203	3,386
November .....	1,873	3,031
December .....	1,086	1,901
Totals .....	38,036	60,218

As a point of interest the attendance record for the month of July has been analysed and each visitor has been classified according to his place of residence. The result may be briefly presented as follows:—

Residence.	Number of Visitors.	Residence.	Number of Visitors.
British Columbia .....	2,352	Washington .....	1,407
Alberta .....	595	Oregon .....	647
Saskatchewan .....	395	California .....	1,037
Manitoba .....	217	Other States .....	1,023
Ontario .....	235	British Empire .....	47
Quebec .....	32	Other countries .....	14
New Brunswick .....	18	Country not stated .....	20
Nova Scotia .....	6		
North West Territories .....	1	Total .....	4,195
Total .....	3,848	Grand total .....	8,043

Outside of Canada and the United States of America the countries represented by visitors include: England, Scotland, Wales, Ireland, Australia, New Zealand, India, China, Japan, Egypt, France, Holland, Spain, Chile, Argentine, San Salvador, Puerto Rico, and Mexico.

#### REPORT OF THE BOTANIST.

A glance at the following facts will show that the botanical section continues to hold a high place in the interest of both the general and scientific public.

The number of plant specimens recorded during the year is 848; the number checked but not listed 534, making a total of 1,382 sheets of new material. Of this, 111 were collected by the staff, forty-three taken from the J. M. Macoun collection of Alaskan plants, while the remaining 1,228 were obtained by gift. The number of specimens mounted and filed is 600; many others are under preparation.

Plants identified for the general public, as distinct from accessions, comprise 1,707 specimens. In this connection it has been gratifying to note the wide variety of interests displayed by those seeking this information—educational, medicinal, economic, and æsthetic.

The exhibit of living wild flowers continues to be as popular as ever, seasonal specimens of the more evident flora having been maintained throughout the year. Advantage is taken of this opportunity of imparting information relative to the economic and conservationist view-point wherever possible.

Over 100 native flowering plants, forty trees and shrubs, and ten species of ferns have thus come under review, in addition to several introduced trees and shrubs of unusual interest.

A collection of seeds of our flora has been commenced; each species is mounted in a cell sunk in thick cardboard and covered with a movable slip of celluloid. The mounts are of the same size as filing-cards, thus combining a storage and filing system in one. Over fifty have been completed, with as many more awaiting attention.

A display collection of the local mushrooms has been inaugurated and a number of specimens have already been modelled by Mrs. L. C. Sweeney. A few are now on view pending the preparation of a larger exhibit designed to show these fungi in their natural habitat.

Among those who have contributed to the herbarium is Mr. J. W. Eastham, Provincial Plant Pathologist, Vancouver. He has continued his interest of past years by further enriching our collection with material from many parts of British Columbia, particularly from little-known areas along the Big Bend Highway. To date his researches have resulted in one species new to science, seven additions to the British Columbia flora, and a large number either new to the herbarium or from localities hitherto unrepresented.

Dr. T. M. C. Taylor, University of Toronto, has revised all our Ophioglossaceæ and Polypodiaceæ and unravelled many perplexities in nomenclature.

Mrs. T. C. Stanwell-Fletcher, Dimock, Pennsylvania, contributed material from Omineca Mountains and Driftwood Valley region; thereby augmenting specimens donated by her from this area last year.

Mr. A. G. Slocomb, Department of Lands, found time to obtain a valuable series from the Liard River district.

One specimen sent in by Mrs. A. E. Planta, from Comox, V.I., proved to be a first record for North America.

Dr. G. C. Carl has donated an extensive collection of aquatic plants from many points in British Columbia and a number of Dry Belt forms from the Interior.

Mr. F. M. Shillaker has contributed a series from the Chezacut region, which is of interest since it contains survivals in a grazed-over area.

Dr. I. McTaggart Cowan sent in a number of aquatic plants from Alta Lake, representing an association of widely related plants existing in a similar environment.

To all who have contributed specimens, both for the herbarium and the wild-flower exhibit, we have pleasure in extending our sincerest thanks and appreciation for their co-operation. This applies with especial emphasis to the following specialists who have so willingly and courteously given of their services in the identification, verification, and the dissemination of knowledge relating to difficult problems:—

Dr. L. Constance, University of California, Berkeley, California.

Mr. J. W. Eastham, Plant Pathologist, Vancouver, B.C.

Dr. Joseph Ewan, University Museum, Boulder, Colorado.

Professor M. L. Fernald, Gray Herbarium, Harvard University, Cambridge, Mass.  
 Dr. J. W. Groves, Central Experimental Farm, Ottawa.  
 Dr. D. D. Keck, Stanford University, California.  
 Dr. F. W. Pennell, Academy of Natural Sciences of Philadelphia, Philadelphia, Penn.  
 Mr. A. E. Porsild, National Museum, Ottawa.  
 Dr. T. M. C. Taylor, University of Toronto, Toronto.

The following British Columbia plants have been added to the herbarium:—

- Cystopteris montana* Bernh. Kinbasket Lake, Big Bend Highway, July 22nd, 1941; J. W. Eastham.  
*Agropyron spicatum* (Pursh.) Scribn. and Smith. Fairmont Hot Springs, July 16th, 1941; J. W. Eastham.  
*Calamagrostis inexpansa* Gray. Kinbasket Lake, July 21st, 1941; J. W. Eastham.  
*Calamagrostis Scribneri* Beal. Kootenay National Park, July 18th, 1941; J. W. Eastham.  
*Distichlis stricta* (Torr.) Rydb. Kamloops, July, 1938; E. W. Tisdale.  
*Elymus innovatus* Beal. Kechika River, July 16th, 1940; N. C. Stewart.  
*Fluminea festucacea* (Wild.) Hitchc. Kamloops, July 23rd, 1937; E. W. Tisdale.  
*Muhlenbergia asperifolia* (Nees and Mey) Parodi. Tranquille, August 28th, 1930; E. W. Tisdale.  
*Muhlenbergia squarrosa* (Trin.) Rydb. Cariboo, August 16th, 1937; E. W. Tisdale.  
*Muhlenbergia racemosa* (Mich.) B.S.P. Donald, July 21st, 1941; J. W. Eastham.  
*Panicum capillare* var. *occidentale* Rydb. Richter Pass, Keremeos, July 30th, 1936; E. W. Tisdale.  
*Carex angara* Steud. Monashee Pass, July 19th, 1940; J. W. Eastham.  
*Carex Buxbaumii* Wahl. Kootenay Lake, July 12th, 1940; J. W. Eastham.  
*Carex capillaris* L. Fairmont Hot Springs, July 16th, 1941, and Yoho Valley, July 20th, 1941; J. W. Eastham.  
*Carex gynocrates* Wormsk. Yoho Valley, July 20th, 1941; J. W. Eastham.  
*Carex phyllomanica* Boott. Chilliwack, June 12th, 1941; J. W. Eastham.  
*Carex praegracilis* Boott. Field, July 19th, 1941; J. W. Eastham.  
*Carex vesicaria* L. Big Bend, July 15th, 1941; J. W. Eastham.  
*Carex vaginata* Tausch. Field, July 20th, 1941; J. W. Eastham.  
*Eriophorum callitrix* Cham. 10 miles north of Sifton Pass, July 1st, 1940; N. C. Stewart.  
*Eleocharis rostellata* Torr. Alberni, V.I., August 10th, 1941; J. W. Eastham.  
*Juncus alpinus* var. *fuscescens* Fern. Cameron Lake, V.I., August 12th, 1941; J. W. Eastham.  
*Juncus Balticus* var. *montanus* Engelm. Yoho, July 21st, 1941; J. W. Eastham.  
*Juncus effusus* var. *compactus* Hoppe. Hollyburn plateau, Vancouver, September 6th, 1941; J. W. Eastham.  
*Juncus triglumis* L. Yoho Valley, July 20th, 1941; J. W. Eastham.  
*Allium Schoenoprasum* var. *Sibiricum* (L.) Hartus. Liard River, July, 1941; A. G. Slocomb.  
*Polygonum aviculare* forma *erectum* (Hayne) Arzw. Golden, July 20th, 1941; J. W. Eastham.  
*Polygonum aviculare* forma *procumbens* (Hayne) Arzw. Alberni, V.I., August 8th, 1941; J. W. Eastham.  
*Lychnis coronaria* Desr. Metchosin, V.I., July 6th, 1941; G. A. Hardy.  
*Anemone canadensis* L. Emerald Lake, July 20th, 1941; J. W. Eastham.  
*Delphinium depauperatum* Nutt. Nelson, July 7th, 1940; J. W. Eastham.  
*Corydalis pauciflora* Pers. Sifton Pass, 10 miles north, July 1st, 1940; N. C. Stewart.  
*Lupinus leucophyllus* Dougl. Lumby, June 13th, 1940; J. W. Eastham.  
*Lupinus Wyethii* S. Wats. Kechika River, June 29th, 1940; N. C. Stewart.  
*Primula Maccalliana* Wiegand. Kinbasket Lake, July 21st, 1941; J. W. Eastham.  
*Halenia deflexa* Griseb. Golden, July 21st, 1941; J. W. Eastham.  
*Gratiola virginiana* L. Sicamous, July 23rd, 1941; J. W. Eastham.  
*Castilleja huetophila* Pennell. Alberni, V.I., June 30th, 1939; J. W. Eastham.  
*Antennaria monocephala* D.C. White Pass, June 24th, 1936; E. and J. Lohbrunner.  
*Aster Fremontii* Gray. Lightning Peak Road, July 14th, 1940; J. W. Eastham.



- Aster Richardsonii* Spreng. Fairmont Hot Springs, July 16th, 1941; J. W. Eastham.  
*Gnaphalium ustulatum* Nutt. Saanichton, V.I., July 6th, 1941; E. C. Reid.  
*Solidago serotina* Ait. Nelson, July 7th, 1940; J. W. Eastham.

The following specimens from areas adjacent to British Columbia have been added to the herbarium:—

- Lycopodium alpinum* L. Aleutian Islands, Alaska, June, 1914; J. M. Macoun.  
*Ranunculus altaicus* Laxm. St. Paul Island, Alaska, June 23rd, 1914; J. M. Macoun.  
*Ranunculus Pallasii* Schl. St. George Island, Alaska, July 13th, 1914; J. M. Macoun.  
*Cardamine umbellata* Greene. St. Paul Island, Alaska, June 30th, 1914; J. M. Macoun.  
*Draba hirta* L. St. Paul Island, Alaska, June 29th, 1914; J. M. Macoun.  
*Saxifraga stellaria* L. var. *comosa* Poir. St. George Island, Alaska, July 15th, 1914; J. M. Macoun.  
*Geum Rossii* Ser. St. Paul Island, Alaska, July 2nd, 1914; J. M. Macoun.  
*Rubus stellatus* Smith. St. Paul Island, Alaska, July 2nd, 1914; J. M. Macoun.  
*Oxytropis Richardsonii* Hook. Banff, Alberta, July 18th, 1914; J. W. Eastham.  
*Ruta graveolens* L. Twin Butte, Alberta, August 2nd, 1941; G. Frank.  
*Epilobium Behringianum* Haussken. St. Paul Island, Alaska, August 1st, 1914; J. M. Macoun.  
*Epilobium clavatum* Trel. St. Paul Island, Alaska, August 7th, 1914; J. M. Macoun.  
*Androcace villosa* L. St. Paul Island, Alaska, June 23rd, 1914; J. M. Macoun.  
*Primula eximia* Greene. St. Paul Island, Alaska, July 2nd, 1914; J. M. Macoun.  
*Gentiana frigida* Haenke. St. Paul Island, Alaska, July 29th, 1914; J. M. Macoun.  
*Gentiana tenella* Rottb. St. Paul Island, Alaska, August 15th, 1914; J. M. Macoun.  
*Plantago spinulosa* Dem. Milk River, Alberta, July 8th, 1895; J. M. Macoun.  
*Chrysanthemum integrifolium* Rich. Ogilvie Mt., Yukon, July 27th, 1936; E. and J. Lohbrunner.

The following plants are not known to have been previously recorded from British Columbia:—

- Carex aboriginum* M. E. Jones. Hollyburn Ridge, September 6th, 1941; J. W. Eastham.  
*Carex gymnoclada* Holm. Kaslo, July 11th, 1941; J. W. Eastham.  
*Carex microptera* Mack. Nelson, July 9th, 1941; J. W. Eastham.  
*Carex subfusca* W. Boott. Vancouver, June 21st, 1941; J. W. Eastham.  
*Carex tribuloides* Wahl. Creston, July 14th, 1941; J. W. Eastham.  
*Polygonum Kelloggii* Greene. Botanie Valley, Lytton, per J. W. Eastham.  
*Chorispora tenella* (Pall) D.C. Penticton, May 10th, 1941; J. W. Eastham. (Introduced.)  
*Polygala vulgaris* L. Comox, V.I., May 30th, 1941; L. A. Planta. (Introduced.) This is also believed to be the first record for North America.

The following species are additions to the "Flora of Vancouver and Queen Charlotte Islands," 1921:—

- Castilleja hyetophila* Pennell. Alberni, June 30th, 1939; J. W. Eastham.  
*Polygonum aviculare* forma *procumbens* (Hayne) Arzw. Alberni, August 8th, 1941; J. W. Eastham.  
*Sagina procumbens* L. Saanichton, May 11th, 1941; J. R. Shenstone.  
*Polygala vulgaris* L. Comox, May 30th, 1941; L. A. Planta. (Introduced.)

#### REPORT OF THE ENTOMOLOGIST.

A considerable amount of interest is shown in the insect-life of the Province, judging from the numerous inquiries and donations. Every encouragement is extended in this direction as it is often the means of discovering otherwise unknown rarities and unsuspected side-lights on the commoner species, not to mention important economic possibilities.

A collection of Cerambycidae (long-horned beetles) and Buprestidae (flat-headed borers) has been presented by Mr. G. A. Hardy. It contains over 2,000 specimens, including a good series of the 100 or more species recorded from Vancouver Island, twenty species from the mainland of British Columbia not found on Vancouver Island, and approximately 300 species and varieties from adjacent areas and other sections of North America. Of particular interest are one type, six paratypes, nine first records for Vancouver Island, and several

species quite rare in collections. A small collection of European forms of related genera is also included. A card catalogue with full data regarding localities, habitat, and bibliography, together with a full set of storage-boxes completes the set.

Mr. W. H. A. Preece, of Lakehill, V.I., has contributed over 100 specimens of Cerambycidae, representing ten species, one or two of which are very desirable acquisitions.

Mr. F. M. Shillaker, of Chezacut, B.C., has sent in some very acceptable Spingidæ and other rare insects, thereby adding to the known locality records.

A rare nocturnal moth commonly called the "Black Witch" has been donated by Mr. Caldwell, of Cadboro Bay, and by Mr. C. S. Shubrook per A. Neville Smith, from Oak Bay.

The life-history of several species of insects has been worked out during the season; specimens of each stage of development have been preserved with the purpose in view of assembling materials for teaching and displays. In this connection invaluable help has been rendered by Mr. H. Andison, Dominion Entomological Branch, who has prepared exhibits of many larval insect stages.

A collection of coloured drawings of butterfly and moth caterpillars is being accumulated for future reference; these are excellently portrayed by Mrs. L. C. Sweeney.

Advantage is taken of this opportunity to express our most sincere thanks and appreciation to all donors of material and information, particularly to the following specialists who have given freely of their time and knowledge:—

Mr. H. Andison, Assistant, Dominion Entomological Branch, Victoria.

Mr. L. S. Dillon, Reading Public Museum and Art Gallery, Reading, Pennsylvania.

Mr. W. Downes, Dominion Entomological Branch, Victoria.

Dr. J. McDunnough, Department of Agriculture, Ottawa.

Mr. J. F. Gates Clarke, United States Department of Agriculture, Washington, D.C.

Professor G. J. Spencer, Department of Zoology, University of British Columbia, Vancouver.

#### ACCESSIONS TO THE MUSEUM.

Several outstanding gifts have been made to the Museum in addition to the botanical and entomological items already noted. Among these is a slab of shale bearing dinosaur footprints, a donation from the Crow's Nest Pass Coal Company at Fernie, B.C., through Mr. H. P. Wilson, President, and Mr. B. Caufield, Colliery Manager. These fossil remains are of particular interest, because the only other known place where dinosaur tracks are to be found in British Columbia is in the Peace River District.

A second donation of a geological nature is a collection of fourteen fossil trilobites from the Cranbrook region, collected and presented by Mr. W. B. Johnstone, of Cranbrook.

Among biological material recently acquired is a collection of amphibians and reptiles donated by Mr. George P. Holland, of the Livestock Insect Laboratory, Kamloops, B.C. Represented in this series are many native species, providing new locality records. Of special interest are examples of several stages in the development of turtles and of snakes.

Among living animals received are two snakes, a blue racer and a rubber boa, from Mr. H. C. Dalziel, of Okanagan Landing; a rubber boa from Mrs. T. L. Thacker, of Hope, B.C.; and a tailed toad from Mr. K. Graham, of the Dominion Forest Insect Laboratory, Victoria, B.C. The latter specimen was collected near Hatzic and provides a new locality record for this amphibian in Canada.

A collection of English birds' eggs, received from Mr. Sidney Johnson, of Victoria, B.C., has been put on display in the bird section of the Museum.

On December 31st, 1941, the catalogued specimens of the Museum numbered as follows: Anthropological, 5,069; botanical, 14,923; mammals, 4,883; birds, 8,963; reptiles, 208; amphibians, 423; fishes, 492.

Contributors and specimens added in 1941 are as follows:—

#### BOTANICAL ACCESSIONS.

C. Berkeley, Nanaimo, 1; Mrs. K. Bridge, Ladysmith, 3; Joseph C. Bridgman, Victoria, 2; Mrs. G. C. Carl, 96; G. C. Carl, 324; L. J. Clark, Victoria, 25; R. Connell, Victoria, 1; W. Downes, Victoria, 2; I. McTaggart Cowan, Vancouver, 156; E. A. Cooke, Victoria, 3; J. W. Eastham, Vancouver, 409; Mrs. J. F. Stanwell-Fletcher, Takla Landing, 108; R. S. Gallop, Jordan River, 1; K. Mackenzie-Grieve, Victoria, 1; H. C. Gunson, Victoria, 1; Mrs.

G. A. Hardy, Victoria, 2; G. A. Hardy, Victoria, 76; Miss H. Hinder, Victoria, 38; Mrs. T. M. Knox, Victoria, 2; J. W. Laing, Victoria, 1; E. Lohbrunner, Victoria, 2; C. S. McTavish, Sidney, 1; Roger Monteith, Victoria, 1; C. P. H. Newcombe, Victoria, 1; Mrs. M. Nichol, Victoria, 2; H. H. Pegler, Victoria, 1; W. P. D. Pemberton, Victoria, 2; Mrs. A. E. Planta, Nanaimo, 1; Mrs. Edith Prichard, Redonda Bay, 1; F. R. Shenstone, Sidney, 6; F. M. Shillaker, Chezacut, 117; A. G. Slocomb, Victoria, 75 plants taken in Liard River district; Mrs. L. C. Sweeney, Victoria, 22; Dr. White, Victoria, 3; John A. Worthington, Victoria, 5.

#### ANTHROPOLOGICAL ACCESSIONS.

##### *Salishan (Coastal).*

Frank Alder, Thetis Island. Parts of two Indian skulls.  
 Dr. E. C. Hart, Victoria. One Indian skull.  
 John M. Hicks, Powell River. One Indian skull.  
 W. J. MacAllan, Victoria. One Indian spoon found near Rescue Bay, Oak Bay.  
 The late Chief Justice Archer Martin, Victoria. Indian bones collected at Gonzales.  
 John Montgomery, Vancouver. Replica of Medicine Man's jadeite bowl which was collected near Haney in September, 1938.  
 F. A. Skiff, Victoria. Indian stone implement.

##### *Haida.*

Herbert Carmichael, Victoria. One blanket-fastener from Graham Island.

##### *Nootkan.*

R. J. Meek, British Columbia Provincial Police. Rock found in midden in Barkley Sound area by Louis G. Larsen.

Major George Nicholson. Harpoon-thrower, two lengths of harpoon rope and harpoons attached.

#### ZOOLOGICAL ACCESSIONS.

##### *Mammals.*

J. F. Stanwell-Fletcher, Takla Landing. Forty-nine mammal specimens collected in the Driftwood River district.  
 A. D. Hardie, Oliver. One mounted deer-head, mounted by Gunner Alec Victor Noble, 2nd Canadian Division D.M.B.  
 J. Hatter, Lake Cowichan. Two ground-squirrel skeletons.  
 Mrs. Joe Lavoie, Vanderhoof. One wolf skull.  
 D. Leavens, Cultus Lake. Two rats.  
 A. P. McBean, Victoria. Two mice and one shrew.  
 G. Prevost, Duncan. One mink skull found by Mr. Vic. Williams.  
 John Richardson, Victoria. One muskrat and one rat.  
 F. M. Shillaker, Chezacut. One lynx skull, one fisher skull.  
 Mrs. T. L. Thacker, Hope. One bat.  
 Fred Swanson, Lake Cowichan. One bat.

##### *Birds.*

Bruce Cash, Victoria. Two flickers.  
 J. O. Clay, Victoria. One nest of Seattle wren.  
 E. A. Cooke, Victoria. One western goshawk.  
 J. F. and T. C. Stanwell-Fletcher, Takla Landing. Thirty-one specimens collected in the Driftwood River district.  
 G. A. Hardy, Victoria. One screech owl.  
 James Hatter, Lake Cowichan. One Audubon's warbler taken in Highland district, Victoria.  
 P. W. Martin, Victoria. One harlequin duck taken on Banks Island.  
 Theed Pearse, Courtenay. One whistling swan.  
 Jim Stewart and Harry Vittlecombe, Victoria. One bird-nest.



*Amphibians and Reptiles.*

- G. C. Boyd, Lake Cowichan. One salamander.  
 Miss Ottilie G. Boyd, Ucluelet. One salamander.  
 H. C. Dalziel, Okanagan Landing. One rubber boa, one blue racer, one turtle.  
 G. C. Emerson, Victoria. One alligator lizard.  
 J. F. and T. C. Stanwell-Fletcher, Takla Landing. Thirteen amphibian specimens.  
 V. Goddard, Victoria. Collection of salamanders, two garter snakes.  
 K. Graham, Victoria. One lizard, one toad.  
 James Grant, Lumby. One lizard.  
 G. A. Hardy, Victoria. One garter snake.  
 Claude Harrison, Victoria. One salamander.  
 James Hatter, Kamloops. One turtle.  
 George P. Holland, Kamloops. Collection of amphibians and reptiles.  
 E. Lohbrunner, Victoria. Two salamanders.  
 Paul Parizeau, Victoria. Three newts.  
 Dr. M. Prebble, Victoria. Seven garter snakes.  
 W. Sim, through Dr. Neal M. Carter, Prince Rupert. One salamander.  
 Walter Stevens, Oliver. One salamander.  
 G. A. Whatmough, Toronto. Two snakes.

*Palaeontology.*

- Walter B. Johnstone, Cranbrook. Fourteen fossil trilobites.  
 H. P. Wilson, Fernie. Shale slab bearing fossil footprints of dinosaur.

*Invertebrates.*

- Harry Andison, Victoria. Two insects.  
 Ed. Bailey, Duncan. One insect.  
 N. R. Broadhurst, Victoria. One shell.  
 Peggy Browning, Victoria. One spider.  
 G. C. Carl, Victoria. Two insects and collection of grasshoppers.  
 L. J. Clark, Victoria. Ten insects.  
 E. A. Cooke, Victoria. Six insects.  
 M. Cooke, Victoria. Collection of marine invertebrates.  
 Mrs. D. Copeman, Victoria. One rock-oyster.  
 I. E. Cornwall, Victoria. One parasitic copepod.  
 E. P. Creach, Victoria. Larva of insect.  
 H. C. Dalziel, Okanagan Landing. One spider, specimens of crayfish.  
 G. O. P. Davis, Victoria. One barnacle.  
 M. E. Fenner, Victoria. One spider.  
 Laverna and Ronald Fong, Victoria. One insect.  
 V. Goddard, Victoria. Collection of black widow spiders.  
 James Grant, Lumby. Collection of insects.  
 M. G. F. Green, Victoria. One insect.  
 G. A. Hardy, Victoria. Thirteen insects. Collections of Coleoptera (Buprestidæ and Cerambycidæ).  
 Mrs. Eunice M. L. Harrison, Duncan. One insect.  
 R. S. Hayes, Duncan. Two insects.  
 Miss H. Hinder, Victoria. One insect.  
 H. L. Hooper, 10 Mile Point. Larva of insect.  
 Jack Hough, Becher Bay. Specimen of coral. Presented through Mr. R. F. Taylor, Victoria.  
 G. H. Lofts, Victoria. One insect.  
 Dr. J. E. Lynch, Seattle. Collection of named Phyllopod from the State of Washington.  
 T. McBain, Victoria. One beetle.  
 R. M. McLennan, Victoria. One spider.  
 Fred Mockford, Victoria. One beetle.  
 David Munro, Okanagan Landing. Plankton sample.

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J. A. Munro, Okanagan Landing. Collection of fresh-water invertebrates from Cariboo lakes.

- Miss M. V. Musgrove, Victoria. One insect.  
Gordon Paulson, Victoria. One chiton.  
A. E. Pickford, Victoria. Larva of insect.  
W. H. A. Preece, Victoria. One hundred beetles.  
Mrs. Seedhouse, Victoria. One barnacle.  
F. M. Shillaker, Chezacut. Twenty-six insects.  
C. S. Shubrook, Victoria. One insect.  
Bobby Smith, Victoria. One insect.  
Gordon Smith, Victoria. One larva of insect.  
Gerry Stevens, Vancouver. One beetle.  
David Stock, Victoria. One beetle.  
Mrs. R. Sutcliffe, Victoria. One shell of large barnacle.  
Mrs. L. C. Sweeney, Victoria. Larva of insect.  
Jimmy Trimble, Victoria. One beetle.  
Allen Upward, Cadboro Bay. One insect.  
Mrs. George Watt, New Westminster. Collection of butterflies, moths, and beetles, presented through Miss H. E. Edwards, Victoria.  
M. H. Wood, Victoria. Two beetle larvæ.  
John Zarelli, Parksville. One sponge.

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