

PROVINCE OF BRITISH COLUMBIA.

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REPORT

OF THE

PROVINCIAL MUSEUM

FOR THE YEAR 1912.



THE GOVERNMENT OF  
THE PROVINCE OF BRITISH COLUMBIA

PRINTED BY  
AUTHORITY OF THE LEGISLATIVE ASSEMBLY.

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1913.

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PROVINCIAL MUSEUM,

VICTORIA, B.C., February, 1913.

*The Honourable H. E. Young, M.D.,  
Provincial Secretary, Victoria, B.C.*

SIR,—I have the honour, as Curator of the Provincial Museum, to lay before you the report for the year 1912, covering the activities of the Museum.

I have the honour to be,

Sir,

Your obedient servant,

FRANCIS KERMODE,  
*Curator.*

University of California  
Berkeley, California, 1918

Mr. W. H. ...

...

I have the honor to ...

...

...

...

...

...



QUEEN CHARLOTTE CARIBOU (*Rangifer caribou*, Seton-Thompson).  
Virago Sound, Queen Charlotte Island, November, 1908.



KERMODE'S WHITE BEAR (*Ursus kermodei*, Hornaday).  
(Type Specimen.) Group in Provincial Museum, Victoria, B.C.

# PROVINCIAL MUSEUM REPORT

FOR THE YEAR 1912.

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Early in January the interior of the Museum was painted and thoroughly renovated; this was badly needed, and was made more necessary on account of having to move the bird-cases from the walls in order to make more space to accommodate four new bird-cases, which were made under the supervision of the Government carpenter on the premises.

The new arrangement of the cases on the upper floor made considerably more room, and I consider the arrangement much better. The collection of birds was thoroughly gone over, rearranged, labelled, and a large number of specimens added. Several new mammals have also been added to the ground-floor, and a large number of heads have been mounted and hung on the walls, of which some are records.

At present all the specimens in the Museum are too overcrowded to allow visitors to properly inspect them, and I have had to defer the mounting of any more mammals or groups until such time as we have space; therefore, most of the work performed in the workshop at present is confined to preserving the specimens and placing them in storage (which is also limited).

During the spring I made a trip to the interior and secured heads of the local mammals; a number of these were mounted and hung on the walls at the Government House by request of His Honour the Lieutenant-Governor. A collection of heads is also in preparation for the Agent-General's office in London, which will be of great interest and value to British Columbia.

The correspondence in the Curator's office is increasing, and keeps in touch with all the leading museums.

A great many applications have been made by school-teachers (more especially in the United States) for copies of the Natural History Bulletins to be used in their nature studies. Considerable correspondence is carried on with the people of the Province in regard to our native fauna.

A number of books and pamphlets have been received for the Museum Library from various museums in the United States and the United Kingdom, referring to the study of natural history in all its branches.

Dr. C. F. Newcombe has continued his research, and also in collecting anthropological material relating to the aboriginal races of the Province, and has secured a large collection of specimens (which have been placed in storage), together with data of the various tribes. The Anthropological Department is at present receiving special attention, before it becomes too late to gather all the material and information relative to the Indians of British Columbia (which at one time was a great race). I would like to suggest, if it were possible to interest a few, if not all, of our road foremen, surveyors, and engineers in construction camps, that they look out for archaeological specimens and forward them to the Provincial Museum; their doing so would greatly assist us in our efforts to retain for this Province valuable specimens, which otherwise may be taken out and lost to us for ever.

The Provincial Museum has been very fortunate in having the co-operation of two of the experts from the Smithsonian Institution at Washington, D.C.—N. Hollister, of the Division of Mammals, and J. H. Riley, of the Division of Birds—who accompanied Director A. O. Wheeler, of the Alpine Club of Canada, on an expedition to the Yellowhead Pass and

Mount Robson region in the summer of 1911. A small appropriation was made to Director Wheeler, who had offered to look after specimens for the Provincial Museum. I met the party on their return to Edmonton, Alberta, and arranged with Messrs. Riley and Hollister that, after they had taken the collection to the Smithsonian Institution and examined the specimens, they would send a report on the birds and mammals of that district, also to send the Provincial Museum duplicates of the birds and mammals collected.

The reports have been received, also the specimens, several of which are new species, being described by N. Hollister.

E. M. Anderson, Assistant Curator, was Acting-Curator from May to August, during the Curator's visit East and to Europe, who had gone to study plans, arrangement, and management of the larger institutions of America and Europe, in preparation for the new Museum to be built in Victoria, and also to attend the annual meeting of the American Association of Museums.

The first museum visited was the Field Museum of Natural History at Chicago; second, the Smithsonian Institution and National Museum at Washington, where considerable time was spent in going over the vast collections, also through all the departments of the Biological Survey. I was loyally received and entertained and extended every privilege by the Secretary, Dr. Chas. D. Walcott, Mr. Rathbun, Dr. Merriam, Director Henshaw, and others of the staff of the Smithsonian Institution.

From Washington I proceeded to New York City, and attended the meeting of the American Association of Museums, held June 4th to 7th, 1912, in the lecture-room of the American Museum of Natural History. The meetings were presided over by the President, Prof. Ed. S. Morse, of the Peabody Museum, Salem, Mass. The address of welcome was delivered by Prof. Henry Fairfield Osborn, President of the American Museum of Natural History; followed by the roll-call, eighty-four members answering their names, being representatives from nearly all the leading museums in America.

Papers were read on care, management, preservation of specimens, and other matter relating to museum-work, and discussions after each. Upon invitation, meetings were held at the Metropolitan Museums of Art, and also at the Museum of the Brooklyn Institute.

After each meeting sufficient time was given for the inspection of the collections, offices, and laboratories.

Previous to the meeting of the Association of Museums, I visited the American Museum of Natural History, and was well received by Dr. Lucas, the Director, and personally conducted by him over that magnificent institution, and was given a great amount of information in regard to the Museum and museum-work.

After the Association of Museums adjourned, I left New York for London, England, and there visited the Natural History Museum and other museums, and was received by Director Fletcher and Prof. Lydekker. I inspected the vast collection of valuable material to be seen in the institution. While in London I received an invitation from the Right Honourable Lord Pontypridd, President of the National Museum of Wales, at Cardiff, through Dr. Hoyle, the Director, to be present at the laying of the foundation-stone of the new National Museum in that city by His Majesty King George the Fifth on July 26th, 1912.

The ceremony took place in the presence of nearly three thousand people, representing all classes of the community and all parts of the principality. His Majesty's gracious words in reply to the loyal address presented to him, the interest he displayed in the details of the model, and his remarks to the officers of the Museum gave abundant evidence of his cordial approval of the enterprise and his desire for its success. The proceedings were carried out in the brilliant sunshine, and gave full satisfaction to all concerned.





FANNIN'S MOUNTAIN SHEEP (*Ovis fanninellii*, Hornaday).  
(Type Specimen.) Provincial Museum, Victoria, B.C.

The Council was specially gratified by the friendly interest manifested in the event by kindred institutions both in the British Isles and abroad. The American Museum of Natural History, New York, honoured the Museum by sending over its Director, Dr. Lucas, to represent it at the ceremony, and the Metropolitan Museum of Art, New York, appointed Dr. Ed. Robinson and Mr. W. R. Valentiner to attend on its behalf. Dr. C. W. Beebe, the Curator of Birds, represented the New York Zoological Gardens, and Mr. F. Kermode, the Provincial Museum, Victoria, B.C. Sir Cecil Harcourt Smith and Mr. C. E. Fagan represented the Victoria and Albert Museum and the British Museum respectively. Heads of many other kindred institutions in England also attended, including Dr. W. M. Tattersall, Manchester; Mr. T. Sheppard, Hull; Alderman J. Fuller Eberle (Chairman of the Museum Committee); Mr. H. Bolton; and Mr. R. Quick, of Bristol.

At the ceremony I met the Director of the Bristol Museum, Mr. H. Bolton, who visited the Provincial Museum with the British Association when they came to America for their meeting, extending their trip to British Columbia. Upon invitation of Director Bolton and Mr. J. Fuller Eberle, the Chairman of the Board of Directors of the Bristol Museum, I visited Bristol and received a cordial welcome, and was shown considerable material of interest regarding museum-work. After leaving Bristol I visited the Natural History Museums in Paris, Frankfurt, Berlin, and Hamburg, on the Continent, which were of great interest to me as one who is interested in the condition of the educational value of an up-to-date museum. From Hamburg I went to Edinburgh, Scotland, and visited the Royal Scottish Museum, and was taken over the collection by the Director, Sir T. Carlow Martin, LL.D.

Leaving Edinburgh, I went to Liverpool and visited the Natural History Museum under the direction of Dr. J. A. Clubb.

On my return to Canada I visited the Museums at Quebec and Ottawa.

In conclusion, I may say that, having been permitted by the Government to visit these large institutions of the world, it has been a great education to me, and I hope that when the new Museum is built I shall be able to carry out some of the ideas that I have formed of what an educational museum should be, and also what it means to the community at large.

The Provincial Museum has been honoured by the visits of several leading men in science, who expressed themselves as deeply interested in what they inspected, and that the Provincial Museum had exceeded all their expectations as a Provincial collection.

Dr. A. R. Crook, Director of the Illinois State Museum of Natural History, whom I met at the meeting of the American Museums Association, and who has since visited our Museum, had nothing but praise, and said that it was the finest local collection he had ever seen.

The most distinguished personages who visited the Museum were the Royal party, Their Royal Highnesses the Duke and Duchess of Connaught and Princess Patricia, who spent some time in going over the collection, and expressed admiration of the big-game and anthropological collections.

#### ATTENDANCE.

The attendance showed a slight increase over 1911—37,897 visitors signing the register. I venture to say that, on an average, about one in five of the travelling public insert their names in the book.

The Museum is open to the public (free) every week-day (except New Year's Day, Good Friday, and Christmas) from 9 a.m. to 5 p.m., and on Sunday afternoons, from the first Sunday in May to the last Sunday in October, from 1 p.m. to 5 p.m.

## ACCESSIONS TO THE PROVINCIAL MUSEUM DURING 1912.

## BIRDS.

- White-tailed Ptarmigan (*Lagopus leucurus*), male and female, Barkerville, B.C., C. W. Grain, January 5th, 1912.
- California Partridge (*Callipepla californica*), Cadboro Bay, E. M. Anderson, January 9th, 1912.
- Reeves Pheasant (*Phasianus reevesii*), Nanaimo, B.C., Dr. Brown, January 29th, 1912.
- Oregon Ruffed Grouse (*Bonasa umbellus sabinii*), female, Mount Skirt, Goldstream, E. M. Anderson, February 1st, 1912.
- Marbled Murrelet (*Brachyramphus marmoratus*), Saanich, B.C., J. R. Anderson, March 6th, 1912.
- Sooty Grouse (*Dendragapus obscurus fuliginosus*), two males, Shawnigan Lake, E. M. Anderson, March 22nd, 1912.
- Sooty Grouse (*Dendragapus obscurus fuliginosus*), female, Shawnigan Lake, E. M. Anderson, March 22nd, 1912.
- Sharp-shinned Hawk (*Accipiter velox*), Victoria, Dr. Hasel, March 26th, 1912.
- Mongolian Pheasant (*Phasianus torquatus*), male, Vancouver, A. Bryan Williams, March 28th, 1912.
- Trumpeter-swan (*Olor buccinator*), Kamloops, Mr. Pearce, March 29th, 1912.
- Red-backed Rufous Humming-bird (*Selasphorus rufous*), New Westminster, J. D. McDonald, August 14th, 1912.
- Pigeon Guillemot (*Cepphus columba*), Victoria, P. Walker, August 19th, 1912.
- Dark-bodied Shearwater (*Puffinus griseus*), Sidney Williams, Sidney, B.C., October 19th, 1912.
- Ring-neck Pheasant (*Phasianus torquatus*), Cedar Hill, near Victoria, E. M. Anderson, November 21st, 1912.
- Golden Pheasant (*Thaumalea picta*), Saanich, E. Wall, December 12th, 1912.
- Cackling-goose (*Branta canadensis minima*), female, Parksville, H. Rawlins, December 1st, 1912.
- California Murre (*Uria troile californica*), two males, three females, Saturna Island, F. Kermode and P. Walker, December 10th, 1912.
- Ancient Murrelet (*Synthliboramphus antiquus*), four specimens, Saturna Island, F. Kermode and P. Walker, December 10th, 1912.
- Hooded Merganser (*Lophodytes cucullatus*), female, Parksville, B.C., H. Rawlins, December 12th, 1912.
- Hooded Merganser (*Lophodytes cucullatus*), female, Saturna Island, F. Kermode and P. Walker, December 10th, 1912.
- American White Pelican (*Pelecanus erythrorhynchos*), Prince Rupert, W. H. Sherman (purchased), December 20th, 1912.

BIRD-SKINS PRESENTED BY UNITED STATES NATIONAL MUSEUM, AUGUST 10TH, 1912  
(J. H. RILEY).

- Steller's Duck (*Enicometta stelleri*), male and female.
- White-tailed Ptarmigan (*Lagopus leucurus*).
- Franklin's Grouse (*Canachites franklini*), young.
- Clarke's Nutcracker (*Nucifraga columbiana*).
- Steller's Jay (*Cyanocitta stelleri*).
- Alaskan Jay (*Perisoreus canadensis fumifrons*).
- Rocky Mountain Jay (*Perisoreus capitalis*).
- Desert Sparrow-hawk (*Falco sparverius phalena*).
- Lewis' Woodpecker (*Asyndesmus torquatus*).
- Western Robin (*Merula migratoria propinqua*).
- Red-winged Thrush (*Hylocichla alicia*).
- Russet-backed Thrush (*Hylocichla ustulata*).
- Olive-backed Thrush (*Hylocichla ustulata swainsonii*).
- Olive-sided Flycatcher (*Contopus borealis*).



BRITISH COLUMBIA RED FOX (*Vulpes abascensis abietorum*, Merriam).

- Western Wood Pewee (*Contopus richardsonii*).  
 Least Flycatcher (*Empidonax minima*).  
 Western Flycatcher (*Empidonax difficilis*).  
 Hammond's Flycatcher (*Empidonax hammondi*).  
 Traill's Flycatcher (*Empidonax trailli*).  
 Say's Phoebe (*Sayornis saya*).  
 Black Phoebe (*Sayornis nigricans*).  
 Bohemian Warbling Vireo (*Ampelis garrulus*).  
 Long-tailed Chickadee (*Parus atricapillus septentrionalis*).  
 Mountain Chickadee (*Parus gambeli*).  
 Western Warbling Vireo (*Vireo gilvus swainsonii*).  
 Tennessee Warbler (*Helminthophila peregrina*).  
 Lutescent Warbler (*Helminthophila peregrina*).  
 Pileolated Warbler (*Wilsonia pusilla pileolata*).  
 Macgillivray's Warbler (*Geothlypis tolmiei*).  
 Black-throated Grey Warbler (*Dendroica nigrescens*).  
 Audubon's Warbler (*Dendroica auduboni*).  
 Long-tailed Chat (*Icteria virens longicauda*).  
 American Pipit (*Anthus rubescens*).  
 Pine Siskin (*Spinus pinus*).  
 Greenland Redpoll (*Anthus hornemannii*).  
 Redpoll (*Anthus linaria*).  
 Oregon Towhee (*Pipilomaculatus oregonus*), male and female.

#### MAMMAL-SKINS FROM UNITED STATES NATIONAL MUSEUM.

(Collected by Hollister and Riley in the Yellowhead District.)

- 6 Chipmunk (*Eutamias ludibundus*).  
 2 Northern Chipmunk (*Eutamias borealis*).  
 2 Chapman's Leaming Vole (*Synaptomys chapmani*).  
 6 Drummond's Meadow Vole (*Microtus drummondi*).  
 6 Cantankerous Meadow Vole (*Microtus mordax*).  
 1 Richardson's Meadow Vole (*Microtus richardsonii*).  
 6 Hudson Bay Chicaree (*Sciurus hudsonicus*).  
 7 Red-backed Vole (*Ecotomys saturatus*).  
 2 Dusky Shrew (*Sorex obscurus*).  
 2 Masked Shrew (*Sorex personatus*).  
 4 Spermophile (*Callospermophilus tescorum*).  
 1 Chief Pika (*Ochotona princeps*).  
 5 Northern Field-mouse (*Peromyscus borealis*).  
 6 Field-mouse (*Peromyscus artemisiae*).  
 3 Rocky Mountain Jumping Mouse (*Zapus princeps*).  
 1 Mountain Vole (*Phenacomys species ?*).

#### MAMMALS.

- Vancouver Chicaree (*Sciurus hudsonicus vancouverensis*), male and female, Cedar Hill, near Victoria, E. M. Anderson, January 16th, 1912.  
 White-tailed Deer (*Odocoileus virginianus*), male, Elko, B.C., C. J. Lewis, January 16th, 1912.  
 Fannin's Sheep (*Ovis stonei*), male, Carcross, Y.T., Colonel Conrad (purchased), September, 1912.  
 Black-tailed Deer (*Odocoileus columbianus*), male, Cumberland, B.C., killed and presented by Robert Grant and S. Shaw, November 9th, 1912; weight, 200 lb.  
 Wild-cat (*Lynx rufa*), three purchased from W. Lindley, Victoria, April 2nd, 1912.  
 Flying Squirrel (*Sciuropterus alpinus kalmathensis*), Broadwater, B.C., A. Campbell, December 11th, 1912.

## OOLOGY.

During the year 130 specimens of birds' eggs have been added to the collection, comprising twenty-seven species, twelve new to the collection.

A fine series of eggs collected at Salt Lake by Dr. David Moore Lindsay was sent in exchange for duplicates in our collection, viz.:—

- 1 Least Tern (*Sterna antillarum*).
- 3 Common Tern (*Sterna hirunda*).
- 4 American White Pelican (*Lelecanus erythrorhynchos*).
- 8 White-faced Glossy Ibis (*Plegadis guarauna*).
- 10 Snowy Heron (*Ardea candidissima*).
- 12 Black-crowned Night Heron (*Nycticorax nycticorax naevius*).
- 25 American Avocet (*Recurvirostra americana*).
- 20 Black-necked Stilt (*Himantopus mexicanus*).
- 4 Wilson's Snipe (*Gallinago delicata*).
- 8 Kildeer (*Egillitis vocifera*).
- 3 Snowy Plover (*Egillitis nivosa*).
- 9 Brewer's Blackbird (*Scolecophagus cyanocephalus*).
- 4 Sage Thrasher (*Oroscoptes montanus*).
- North-west Crow (*Corvus Caurinus*), five in set, Victoria, E. M. Anderson, May 9th, 1912.
- Gairdner's Woodpecker (*Dryobates pubescens gairdneri*), six in set, Victoria, E. M. Anderson, May 9th, 1912.
- Sooty Grouse (*Dendragapus obscurus fuliginosus*), six in set, nest also contained three eggs of California Partridge (quail), Cedar Hill, S. Whittaker, May 10th, 1912.
- Parkman's Wren (*Troglodytes adon Parkmani*), seven in set, Cedar Hill, D. Irving, June 12th, 1912.
- Northwestern Flicker (*Colaptes cafer saturator*), seven in set, Cedar Hill, D. Irving, May 26th, 1912.
- Western Chipping Sparrow (*Spizella socialis arizona*), four in set, Cedar Hill, D. Irving, May 26th, 1912.
- Nuttall's Sparrow (*Zonotrichia leucophrys nuttallii*), four in set, Cedar Hill, D. Irving, June 4th, 1912.
- Nuttall's Sparrow (*Zonotrichia leucophrys nuttallii*), five in set, E. M. Anderson, Victoria, May 19th, 1912.
- Western Vesper Sparrow (*Poocetes gramineus confinis*), four in set, C. de B. Green, June, 1912.
- Alaskan Yellow Warbler (*Dendroica aestiva rubiginosa*), four in set, Cedar Hill, D. Irving, May 26th, 1912.
- Alaskan Yellow Warbler (*Dendroica aestiva rubiginosa*), five in set, Victoria, E. M. Anderson, May 19th, 1912.
- Brewer's Blackbird (*Euphagus cyanocephalus*), six in set, C. de B. Green, June 11th, 1912.
- Sage Thrasher (*Oroscoptes montanus*), C. de B. Green, nest and eggs, four in set; presented June, 1912.
- Vigor's Wren (*Thryomanes bewickii spilurus*), D. Irving, five in set, Cedar Hill, July 12th, 1912.

## FISHES.

- Wolf Eel (young), Victoria, April 23rd, 1912.
- Aerotus willoughbi*, Victoria, July 19th, 1912; cast up on the beach; J. Dixon. purchased (fourth specimen known to science).
- Char, Dolly Varden Trout (*Salvelinus malma*), Lorne Creek, August 7th, 1912, E. B. Earle (G.T.P.).

## MISCELLANEOUS.

- Crawfish, Sooke, B.C., April 23rd, 1912.
- Clam (*Glycerimis generosa*), Tofino, W. W. Rhodes, June 18th, 1912.
- Rattlesnake (*Crotalus lucifer*), Ashcroft, H. Collins, May 10th, 1912.
- Whale (fetus), Victoria, B.C., Dr. Milne, December, 1912.

## ANTHROPOLOGY OF BRITISH COLUMBIA.

SPECIMENS COLLECTED BY C. F. NEWCOMBE, M.D., 1911.

*Nootkan.*

Harpoon-bag.	Bone spear, model.
Cherry-bark.	" club, "
Spear-bag.	Whistle.
Nose-pendant.	Drum-sticks.
Halibut-hook.	Baler, carved.
Twisted gut.	Halibut-club.
Dentalia.	"
Pine-gum.	Mask, Hai-ot-lik.
Doctor's head-dress.	Spear-point, iron.
Grease ladle strainer.	Pecten rattle.
Belt.	Apron of cedar-bark.
Hook.	Dentalium spear.
Wedge.	Hook-basket.
Wedge.	Basket and lid.
Awl.	Dagger.
Chisel, bone blade.	Net.
Mask, thunderbird.	Coloured wool mat.
" " female.	Chief's stick.
Carved birds with same (37).	Anchor-stone.
Adze.	Chief's bag of fibre.
" handle carved.	Chisel.
" "	Bark cradle.
Fish gaff.	Chest, carved, large.
" lure.	Spinning disk.
" with hooks.	Mat, rubber.
Cradle shape.	Adze.
Bark-chopper.	Arrow, large, old.
Mat-maker's rubber.	" " "
" "	Bailer.
Hammer-stone.	Netting implements.
Cradle of wicker.	Chisel, old compound.
Pads and bedding for same.	Maul.
Whale-harpoon, small.	Paddle.
Elk-skin lashings.	Maul.
Whale-harpoon, etched barbs.	Native wool blanket.
Ceremonial bucket.	Spoon.
Rattle.	Maul.
Thunderbird.	Slate knife, mounted.
"	Fish-club.
Mat-needles.	Wicker basket.
Cedar-twig lashings.	Woman's awl, bone.
Whaler's charm.	Adze, D-shaped.
Herring-net.	Basket.
Tongs.	"
Hammer-stone.	Tump-line.
Whale-harpoon.	Basket, chip.
Harpoon point, short line.	Mask, double.
" head.	Box.
Totem-pole, Ohiat.	Bow.
"	Quiver.
Totem-pole, Sarita.	Arrow.
"	"
Painted board, Sarita.	"

*Nootkan.*—Concluded.

Arrow.	Whistle of yew.
Nettle fibre.	Large bag.
Spoon, wood.	Skull charm.
Wedge.	Mask.
Hammer.	"
Fish-gaff.	Sea-lion harpoon.
Bow.	Whetstone.
Tackle-box.	Clam-dish.
Hook-bag.	Mat (bedding).
Tackle-box.	" "
Whale of wood.	" floor.

*Nootkan (Uclulet).*

Mask.	Skin hook-bag.
"	Seal-skin and frame.
Fish-lure.	Whaler's belt.
Panther mask.	Box.
Doctor's head-dress.	Mask.
Cradle of wood.	Bird rattle.
Bird rattle.	Whaler's charms.
Board mask.	Hook-bag.
Panther-claws.	Mask.
Scallop rattle.	"
Bone fish-knife.	Mat, cradle, etc.
Harpoon-socket (antler).	Bone adze-handle.

*Kwakwilt.*

Dish.	Goose mask.
"	Star "
"	Sun "
"	Potlatch dish.
"Fool" mask.	" "
Mat.	Carved seat, chief's.
Whale mask.	Sea-otter tooth lid.
Cannibal bird mask.	Loom.
Box.	Box.
Killer-whale dish.	Stone maul and handle.
" "	Stone maul.
" "	Tomahawk of stone.
Bear dish.	Stone adze and handle.
Beaver dish.	Spindle, wood.
Stone hammer.	" bone.
Chief's head-dress.	Spoon, carved.
Potlatch figure.	Soapberry spoons.
" ladle.	Straining-basket.
Cannibal's rattle.	Potlatch figure.

*Salish.*

Infusorial earth.	Rattle, bird-shaped.
Stone hammer.	Net, nettle thread.
Pitted stone hammer.	

*Dene (Chilcotin).*

Basket, small.	Basket, large.
" "	" "
" large.	" "
" "	" "





WILLOUGHBY'S RAG FISH (*Acanthopoma willoughbyi*, Bean).  
Victoria, B.C., July, 1912. Two known specimens.

*Haida.*

"Copper" beaver crest.	Sea-otter club.
Monument.	" "
Carved sea-lion heads.	" bow.
Eagle-whale mon't.	Halibut-club, carved.
Sea-otter spear.	Fish hand-net.
Halibut-hook, carved.	Mesh-stick.
Sea-otter spear.	Salmon-spear points.
Black-cod kelp lines.	Hair-seal points.
Set black-cod hooks.	Halibut-hook, carved.
Fisherman's basket.	" albatross.
Case of berry-spoons.	" devilfish.
Chief's crest coat.	" puffin.
Halibut-line of spruce.	" albatross.
Carved stone maul.	Tobacco-pestle.
Pestle-stone.	Box of polished bones.
Stone adze.	Halibut-float.
Perforated stone.	Dish, halibut.
Food-crusher.	" old type.
Awl, canoe-maker's.	" seal pattern.
Canoe tackle-box.	" very old.
Dance head-dress.	" large, with cover.
Spruce-root lashing.	Box, old, carved.
Paddle.	Berry-basket.
Carved house-plank.	Spoon-basket.
Halibut-hook, iron.	Chief's head-dress.
Stone mortar.	Dance-blanket.
" war-club.	"
Tobacco-pestle.	Carved canoe-dish.
"	Spear (devilfish).
Hand-hammer, very large.	Dish, line carving.
Maul.	Chief's hat.
Stone labret.	Raven mask.
Paint-stone.	Bear "
Stone sinker.	Mask.
Whetstone.	Eagle mask.
Stone chisel.	Bear-skin robe.
"	Chief's chest (5 pieces).
" (jade).	Bone spearhead.
Knife-handle, carved.	Model sail.
Spoon mould and stick.	Large totem-pole.

*Tsimshian.*

Cradle.	Carved stone horn.
Dance-hat, inlaid.	Stone chopper.
Maple-bark bag.	Perforated stone fr.
Stone club.	Model bridge.
"	Loom.
Stone club, Digby Island.	Stone adze.
Mortar, grooved.	Salmon-spear.
Skull.	Carved box.
"	Bark-chopper.
"	Berry-basket.
" (fragment).	Totem-poles.
Femur.	Doctor's crown.
Tibia.	Grooved stone.
Incised stone.	

} Gifts.

## SPECIMENS COLLECTED BY DR. C. F. NEWCOMBE, 1912.

*Kwakiutl.*

Carved stone axe, Rivers Inlet.	Killer-whale dish (tail back).
" " Cormorant Island.	Wolf dish.
Hat, Alert Bay.	"
" "	Wolf mask.
Cannibal mask (3 heads).	"
" "	"
Wolf mask, large female.	Heligia mask.
"	"
"	"
"	Rattle.
Wasp mask.	Wind mask.
Wind "	Sisiutl belt.
Dsonoqua mask.	Killer-whale dish.
Bark collar.	Hampsiq.
"	Potlatch figure.
"	Small stone hammer.
"	Wedges.
"	Ladle, eagle.
"	" wolf.
Drum.	" plain.
Baton.	" with head.
"	Spindle whorls.
"	"
"	"
Mountain-goat mask.	Comb.
Killer-whale dish.	

*Chilcotin.*

Basket.	Basket.
"	"
"	"
"	"
"	Leggings, Tsimshian.

*Nootkan.*

Paddle.	Harpoon-barbs.
"	Yellow-cedar bark.
Hook-bag.	" " (small).
Blanket, Tsimshian.	Cape, yellow cedar bark, half made.
Wedge-basket.	" " " quarter made.
Tool-box.	Yellow cedar string.
Chisel.	" "
Adze.	Seal-skin sturgeon float.
Knife.	Sea-lion stomach oil-bag.
"	Hook-bag.
"	Arrows (4).
Bag for above tools.	Rattle.
Fish-trap.	Bull roarers (2).
Basket (open work).	Bow, sea-otter.
" (close weave).	Arrows (6).
Spoon.	Wedges (6) and basket.
Nettle fibre.	Yellow cedar blanket and loom.
Berry-cake.	Bark strips.
Awl.	"
"	"

*Nootkan.*—Concluded.

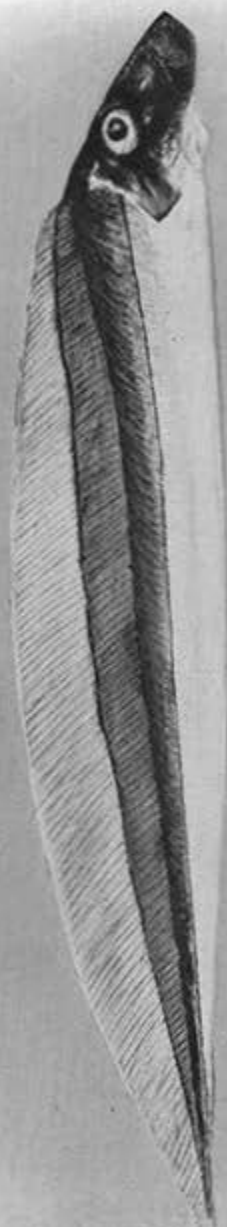
Medicine-bag of cedar-bark.	Rattle, skull.
Dip-net and lure.	" "
Medicine-bag.	Whistle.
Vegetable food.	" (6), long.
Bow and arrows for birds.	Bear-skin on drying-frame.
Small mat.	Doctor's bark ring.
Needle, bone.	Slave-killer, model.
Club, "	Dish, carved and painted whale.
Adze, "	Hamatsa's blanket.
Carved "	" mask.
Mask, "	" leggings.
Thunderbird (Macquiller).	" armbands.
Harpoon, etched barbs.	" apron.
Whale charm, carved.	" stomacher.
" "	" collar.
Nettle fibre.	" head-dress.
Stone hammer.	" whistles (12)
Mat.	Bow.
"	Arrows.
War-club.	Box.
Carved bone.	Blanket-pin, bone.
Hat.	Bailer.
Basket.	Sinker.
Sea-otter arrow-box.	Stone hammer.
Tackle-box.	Seal dish.
Club, dogfish.	Slave-killer, stone, broken.
Sea-otter spear.	Chief's grave crest and beam, Campbell River.
Potlatch mask, man's face.	

*Tsimshian.*

Mask, old, grouse.	Food-tray.
" small human face.	" small.
" " "	Bag of cedar bark.
" " "	Mat "
" " "	Ladle.
" with frog.	"
" red-wing flicker.	Club, model of wood.
" fool (1), bow (2), dagger (3).	Charm, golden eagle.
" nigger (1), wooden spear (2).	Mask, doctor's.
" death's head (1), heart (2), owl (3).	" man's face.
Marmot-skin.	" simple woman.
Salmon.	Seaweed chopping-block.
Spinning whorl.	Chest, carved.
Loom.	Feather-case.
Paint-sticks for gambling set.	Wolf crest of yew.
Gauge for "	Hamatsa cedar-bark ring.
Equisetum "	" " "
Arrow, club-shaped (cerem.).	" " "
Mask, monkey-face.	" " "
" crying woman.	Hamatsa mask.
" potlatch, man's face.	"
" white man.	"
" eagle.	"
" " opens out.	Bone-scraper.
Chisel.	Head of human figure.
"	Gambling-sticks.
Slate mirror.	Spindle-rest.

*Tsimshian.*—Concluded.

Chief's blanket.	Pestle, stone.
Soapalali spoons.	" "
Kingfisher, carved.	" "
Halibut-hook.	" "
"	" "
"	Mortar, large-grooved.
Awl-point, bone.	" "
Chisel-point, bone.	" plain.
Bone awl.	" "
"	" fragment of.
Needles, long bone (16).	" "
Bark-splitters, bone (3).	Whetstone.
Short barbs and points (24).	"
Flat instruments (9).	"
Barbed points (2).	"
Antler " (2).	Mirror, slate.
Harpoon-point, barbed.	Rubbing-stone, red, oval.
" "	" "
" "	" "
" not barbed.	" broken
Harpoon-head, broken in three pieces.	Sinker, oval.
Drinking-tube, bone.	Rubbing-stone.
Chisel, antler.	"
Sea-lion teeth (2).	"
Small teeth (3).	"
Beaver-tooth in jaw.	"
Slate instruments (6).	"
Spear-point, stone.	"
Chisel, small jade.	"
Stone, semicircular, perforated.	"
" grooved.	"
" drilled (sinker?).	"
Polishing-stone, curved.	"
Hammer, small-pointed.	"
Bark-chopper, stone.	"
" "	"
Whetstone, large.	"
Adze, stone.	"
Nodule, clay, etched.	Spherical stone.
Hand-hammer, flat oval, partly grooved.	Stone, L-shaped.
" "	" "
" "	" "
" "	Stone, hammer-shaped.
" "	Stones, "
" " plain.	Stone, boomerang-shaped.
" " "	Skull.
" " double-pitted.	"
Maul, perforated.	"
Pestle, stone.	Thigh-bone.
" "	Stone disk.
" "	Sinker, flat notched.
" "	Rubbing-stone for bow-strings.
" "	Chipped flint point
" "	Large whale-bone.
" "	



KING OF THE SALMON (*Trachipterus rec-salmonorum*, Jordan and Gilbert).  
Sherringham Point, Vancouver Island, 1907. Fifth known specimen.

*Salish.*

Basket.	Mat-creaser.
"	Halibut-hook.
"	"
"	Bow-strings of sea-lion gut.
"	Spinning whorl and stick.
"	Wedge, elk-horn.
"	War-club, model.
"	River-canoe, model.
"	Lehal.
"	Slehallum.
"	"
Snow-shoes.	Slate knife.
Moccasins.	"
Adze-handle, carved.	"
Fish-spear.	"
Sturgeon-club.	Slate spear-point.
Loom.	Arrow-points (6).
Spindle whorl.	Chisel, stone.
"	" "
Goat's wool in ball.	" "
Totem-pole.	" "
"	" "
Mask from Comox	" "
Hammer-stone.	" "
"	" "
"	" "
"	" "
"	Point, barbed, bone.
"	Sea-lion spear-point, iron and lanyard.
"	Perforated stone sinker.
"	Ladle of wood.
"	Spoon.
"	Mask.
"	Hair head-dress.
"	Beaver-tooth game.
Bow and arrows (4).	" (1 missing).
" " (3).	Labret.
Rattles, leg and arm.	Sinker, oval stone.
Hat.	Counters for gambling game.
Mat-creaser.	

SPECIMENS COLLECTED BY J. A. TEIT FROM THE INTERIOR OF BRITISH COLUMBIA,  
1911-12.

*Interior Salish (Ntlykypamal, Countean, or Thompson Tribe).*

22 lodge mats.	1 man's bonnet, skin.
1 mat, rushes and rabbit-skins.	1 cape, buckskin.
1 " " and bark.	2 spoons, juniper-bark.
1 bag, buckskin.	1 spoon, horn.
1 pair snow-shoes.	1 charm.
1 bag of hide.	1 necklace (bear-teeth).
1 bag, buckskin (beaded).	1 " beads, etc.
1 slipper, sage-brush bark.	1 " porcupine-quills.
1 pair buckskin moccasins.	1 " beads and dentalia.
1 cap, woman's, buckskin.	2 arrows, wood.
1 shirt, boy's, "	9 chipped stones.
1 child's carrier of dressed moose-skin.	1 buckskin string.
1 strap ornament.	1 girl's drinking-tube of lynx-bone.
2 boys' caps, skin.	1 " bone-scratcher.

—Interior Salish (*Nltykypamal, Countean, or Thompson-Tribe*).—Concluded.

1 spoon, sheep-horn.	1 basket, birch.
1 bag.	1 " circular tray.
1 " bark.	1 " oblong.
1 " hemp.	1 " trunk.
1 " fringed buckskin.	1 parfleche.
1 stone hammer.	

*Athapascan (Tahltan Tribe of the Nahans).*

1 game-bag of hide.	1 pair moose-skin moccasins, quill-work.
1 " netted.	1 necklace (dentalium shells).
1 pack-strap.	1 hat-band, beaded.
1 pair moose-skin moccasins.	

ENTOMOLOGY.

INSECTS COLLECTED BY E. M. ANDERSON, 1912.

- Pontia occidentalis* (Reak), May 29th, 1912.  
*Oenig gigas* (Butler), Mount Finlayson, July 7th, 1912.  
*Samia rubra* (Behr), Victoria, July 6th, 11th, 1912.  
*Telega polyphemus* (several taken at night), Victoria, June and July, 1912.  
*Pseudohazis eglanterina* (Bdv.), sheep-moth, Goldstream, June 2nd, 1912.  
*Apantesis ornata* (Pack), Victoria, May 28th, June 7th, 1912. Var. *achaea* (G. & R.).  
*Apatela perdita* (Grote), Victoria, May 24th, 1912.  
*Hadena cinctifacta* (Grote), Victoria, May 20th, 1912.  
 " *claudens* (Walker), Victoria, May and June.  
 " *cerviana* (Smith), Victoria, June 4th, 1912.  
*Polia epichysis* (Grote), Victoria, May 17th, 1912.  
*Feralia columbiana* (Smith), Victoria, May 2nd, 1912.  
*Rhynchagrotis costata* (Grote), Victoria, June 19th, 27th, 28th, 1912.  
*Noctua inopinatus* (Smith), Victoria, Aug. 3rd, 6th, 1912.  
*Paragrotis vestusta* (Walker), Victoria, Aug. 10th, 1912.  
 " *titubatis* (Smith), Victoria, Sept. 11th, 1912.  
 " *satis* (Harvey), Victoria, Aug. 4th, 1912.  
*Autographa selecta* (Walker) Victoria, July 9th, 1912.  
*Catocala elda* (Behr), Goldstream, July 17th, 1912.  
*Erebis odora* (Linn), Victoria, Sept., 1912.

In addition to the above list there has also been added the following:—

Coleoptera,	78 specimens.
Lepidoptera,	300 "
Hymenoptera,	24 "
Diptera,	38 "





BROWN CAT SHARK (*Catalus brannensis*, Gilbert).  
Taken at Nanaimo, B.C. Three known specimens.

PROVINCIAL MUSEUM LIBRARY—REPORTS AND PUBLICATIONS  
RECEIVED IN 1912.

FIELD MUSEUM OF NATURAL HISTORY, CHICAGO.

- Publication 154—A Study in Chinese Archaeology and Religion.  
" 152—Antiquities from Boscoreale in Field Museum.  
" 153—The Mammals of Illinois and Wisconsin.

PROCEEDINGS OF THE CALIFORNIA ACADEMY OF SCIENCES.

- Expedition of the California Academy of Sciences to the Galapagos Islands.  
Notes on the Botany of Crocas Island.  
The Grekos of the Galapagos Archipelago.  
Notes on the Reptiles from Southern California and Arizona.  
Notes on some Reptiles and Amphibians from Oregon, Idaho, and Utah.  
Geologic Range of Miocene Invertebrate Fossils of California.

UNIVERSITY OF CALIFORNIA PUBLICATIONS IN ZOOLOGY.

- The Horned Lizards of California and Nevada.  
On a Lymphoid Structure lying over the Myelencephalon of Lepisostens.  
The Living Eggs of Rats and Mice, with Description of Observance.  
History of the Marine Biological Station of San Diego.  
Oxygen and Polarity in Pubularia.  
The Occurrence and Vertical Distribution of Copepoda.  
Observations on the Suckling Period of the Guinea-pig.  
Haeckels, Radiolaria—a Marine Ciliate.  
Report on a Collection of Birds and Mammals on Vancouver Island.  
A New Cony from the Vicinity of Mount Whitney.  
The Mole of Southern California. A Bat new to California.  
The Bighorn of Sierra Nevada.  
A New Peroganthus from the San Joaquin Valley, California.  
The Beaver of West Central California.  
The Two-pocket Gophers contagious in California and Arizona to Colorado River.

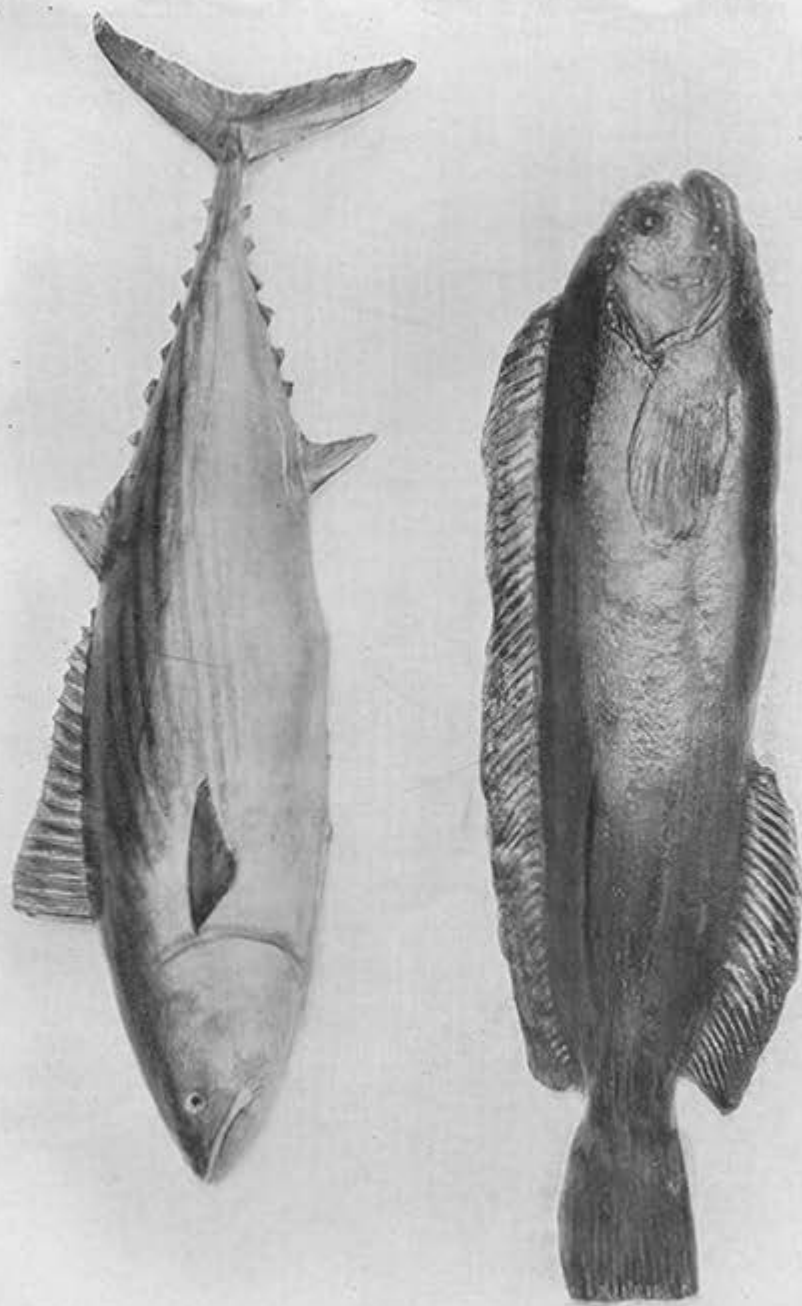
REPORT OF THE COOPER ORNITHOLOGICAL CLUB OF CALIFORNIA.

- Birds of the Pacific Slope of Southern California.  
A Systematic List of the Birds of California.

UNITED STATES NATIONAL MUSEUM, WASHINGTON.

- New Mammals from Eastern Panama.  
New Sub-species of Monkey from British East Africa.  
The Genera of Fossil Whale-bones allied to Balonoptera.  
Notes on Animals in the National Zoological Park.  
Further Notes on the Breeding of the Black Bear in Captivity.  
The names of the Large Wolves of Northern and Western North America.  
New Rodents from British East Africa.  
The Recognition of Pleistocene Faunas.  
Directions for preparing Specimens of Mammals.  
New Mammals from Canada, Alaska, and Kamaschatka.  
Description of Twelve New Mammals from Panama.  
The Crustacea of the Order Cumacea in the United States National Museum.  
Preservation of Osseous and Horny Tissues.  
A Revision of the Forms of the Edible-nest Swiftlet, *Collacelia fuciphage*.  
A Small Collection of Bats from Panama.  
Description of a New Species of Isopod from Japan (2).  
Variation in the Skull and Horns of "Isabella Gazelle."





BONITA (*Sarda chilensis*).  
(Type Specimen.) FROW FISH (*Zaprora silenus*).

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 AGRICULTURAL EXPERIMENTAL STATION, OHIO.

Autumn Meeting of the Ohio State Horticultural Society.  
 Treatment of Artificial-tree Plantations.  
 Alfalfa in Ohio—a Field Study.  
 The Church Bug.  
 The Rural Population of Ohio (showing Increase and Decrease).  
 Varieties of Corn in Ohio.  
 Farm Poultry.  
 Co-operative Forestry Work.  
 Experiments on the Central Farm (Maintenance of Soil Fertility).  
 The Seed-corn Situation.  
 Testing the Dairy Cow.  
 Carriers of Lime.  
 Horticultural Information.  
 Apple-blisters, Canker, and Methods of Treatment.  
 Dressing for Pruning-wounds on Trees.  
 Farm Management, Field Studies, and Demonstration Work in Ohio.  
 Feeding Dairy Cows.  
 The Status of the Potato-growing Industry in Ohio.  
 Seasonal Notes on Potatoes.  
 Fall Manual of Practice in Economic Zoology.  
 Flour-mill Fumigation.  
 Climate of Ohio.  
 Strawberry Notes for 1910-11.  
 Tobacco-culture in Ohio.  
 Rejuvenation of Orchards.

## UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON.

The Migratory Movements of Birds in relation to the Weather.  
 Our Mid-Pacific Bird Preservation.  
 Bird Enemies of the Codling-moth.  
 Craw-fish as Crop-destroyers.  
 National Reservation for the Protection of Wild Life.  
 Directory of Officials and Organizations *re* Birds and Game, 1912.  
 Report of the Condition of Elk in Jackson Hole, Wyoming, 1911.  
 Chronology and Index, Game Protection Act, 1776-1911.  
 Report of Expedition to Layson Island.  
 Annual Report of the Governor of Alaska on Alaska Game Law, 1911.  
 Common Mammals in Western Montana in relation to Agriculture.  
 The English Sparrow as a Pest.  
 Raising Belgian Hares and other Rabbits.  
 Some Common Game, Aquatic, and Rapacious Birds in relation to Man.  
 Farmers' Bulletin, 510.  
 Game Laws for 1912.

## FIELD MUSEUM OF NATURAL HISTORY.

Annual Report of the Director to the Board of Trustees.  
 Mammals from Western Venezuela and Eastern Columbia.  
 Description of New Fishes from Panama.  
 The Oraibi Maru Ceremony, 1912.  
 Brief Miscellaneous Hopi Papers, 1912.

## WILSON ORNITHOLOGICAL CLUB, OBERLIN, OHIO

A Study of the Home Life of the Brown Thrasher.  
 March Bird List from the Callosahatches River and Lake Okeechobee.  
 A Preliminary List of Birds of Fall River County, South Dakota.

## PENNSYLVANIA MUSEUM AND SCHOOL OF INDUSTRIAL ART.

- The Frishmuth Antiquarian Collection.  
 Drawing-room Set of Furniture, Louis XVI. Period.  
 Two Additional Furniture Sections, opened to the Public, May 27th, 1912.  
 An Old Interior from the Austrian Tyrol.  
 General Ethnology Collection, E. W. Clark Collection.  
 One of the Oldest Babylonian Tablets in the World.  
 An Ancient Antiquary.

## THE COLORADO AGRICULTURAL COLLEGE.

- Bulletin, Colorado Climatology.  
 Deterioration of the Quality of Sugar-beets, due to Nitrates in the Soil.  
 The Ammonifying Efficiency of certain Colorado Soils.

## THE DETROIT MUSEUM OF ART.

- A Painting added to the Permanent Collection.  
 April Bulletin, Vol. 6.  
 Some Fine Acquisitions.

## THE BRITISH MUSEUM OF NATURAL HISTORY

- Guide to the Department of Zoology, 1910.  
 Guide to the Animals, etc., mentioned in the Bible.  
 Guide to Smith's Drawings of Mushrooms.  
 Memorials of Charles Darwin, 1910.  
 Guide to the Crustacea, etc., 1910.  
 General Guide to the British Museum of Natural History, 1909.  
 Guide to the Exhibited Series of Insects, 1909.  
 Guide to the Shell and Starfish Galleries, 1908.  
 Guide to the Great Game Animals (Ungulata), 1907.  
 Guide to the Coral Gallery, 1907.  
 Guide to the Gallery of Reptila and Amphibia, 1906.

## THE CARNEGIE MUSEUM, PITTSBURG.

- Report of the Carnegie Museum, 1911.  
 Report of the Founder's Day, and Annual Report, 1912.

## MISCELLANEOUS REPORTS.

- State Museum University of Washington, Seattle, 1912.  
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 Report of the University Museum, Michigan, 1911.  
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 Bulletin No. 1, Leguminosae of Louisiana, 1910.  
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 Annual Reports of the Oakland Free Library and Oakland Museum, 1911-12.  
 The Oologist—Birds, Nests, Eggs, December, 1911.  
 The Mineral Resources of the Philippine Islands.  
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 Report of the Drexel Institute and Library School.  
 The Tahltan Indians, University of Pennsylvania.  
 Educational Appliances for the Instruction of Natural History.  
 University Studies of the University of Nebraska (4 reports).  
 University of California in Zoology, Vol. 8, No. 3.  
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 Report, Wagner Free Institute of Science, Philadelphia, 1911-12.  
 Report, Erie Public Library, Pa., 1909-10-11.  
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- California University, Structure and Relationships of *D. palustris*.  
 California University, Birds of Oregon, 1907-8.  
 Studies in Bird Migration.  
 Park Museum Bulletin, March and April, 1911.  
 Some Aspects of Variation, 1912.  
 Bristol Art Gallery Catalogue.  
 Wilson Bulletin, Ohio, No. 81.  
 Report of the Natural History Museum, Illinois, 1909-10.  
 American Journal of Science, Showers of Meteoric Stones, etc.  
 State Board of Agriculture, Mass., Report of State Ornithologist.  
 A Preliminary List of the Insects of Quebec.  
 Guide to the Collections, Free Public Museums, Liverpool.  
 Annual Report of the Public Museum of Milwaukee.  
 Some Poultry Diseases, Colorado Agricultural College.  
 Geology of the Sangamon County.  
 Report of the Brooklyn Entomological Society.  
 Report of the New Jersey Agricultural Experimental Stations.  
 Report of the Pennsylvania Museum and School of Art.  
 Report of the Museum of Natural History, University of Michigan.  
 General Guide to the Museum of Natural History, University of Michigan.  
 Report of the Brooklyn Museum of Arts and Sciences.  
 The Mineral Resources of the Philippines for 1911.

## CANADIAN REPORTS.

- Report of the Anthropological Division, Canada Department of Mines.  
 Summary Report of the Geological Survey, 1911-12.  
 Report of the Bighorn Coal Basin, Alberta.  
 Report of Southern Vancouver Island.  
 The Geology and Ore Deposits of Phoenix, Boundary District, B.C.  
 Preliminary Report of the Clay and Shale Deposits of Western Provinces.  
 Report of the Commission re Turtle Mt. and Frank, Alta.  
 The Geology of Steeprock Lake, Ont.

## MANCHESTER MUSEUM, ENGLAND.

- Report of the Manchester Museum for 1895 to 1912, inclusive.  
 Notes on Suggestions for a Proposed Museum in Manchester.  
 Notes on *Rachiopteris cylindrica* (Will.).  
 Notes on Ampullæ in some Specimens of Millepora.  
 Notes on New Species of Brachiopoda and Mollusca of Lancashire.  
 Notes on Palæontology of the Manx Slates of the Isle of Man.  
*Xenophyton radiculosum* (Hick) and Stigmarian Rootlet.  
 The Red-sandstone Rocks of Peel, Isle of Man.  
 The Carboniferous Perunan and Triassic Rocks in Glacial Drifts.  
 Report on Bigbury Camp and Pilgrim's Way.  
 Notes on the Type Specimen of *Loligoebianae* (Ball).  
 Discovery of *Elephas antiquus* at Blackpool.  
 Diagnostic Key to Dibranchiate cephalopoda.  
 Two Native Rag-branches and a Prayer-stick.  
 The Education of a Curator.  
 Glue and Turpentine Cement for Alcoholic Mounts, how to make and use.  
 Nomenclature of the Seams of Lancashire Coal-measures.  
 Hadfield Collection of Shells from the Loyalty Islands.  
 Catalogue of the Library.  
 Index to the Systema Nature of Linnæus.  
 Correlation Tables of British Strata.  
 Palæontology of the Lancashire Coal-measures (Part 1).  
 " " " (Part 2 and 3).  
 A Brief Account of the Cosuro Melvill Herbarium.

- Chapters from the Evolution of Plants.  
 Catalogue of Hepaticæ.  
 Handy Guide to the Museum.  
 The Marine Mollusca of Madras.  
 Marine Shells from Lively Island, Falklands, and other Parts.  
 General Guides to the Natural History Collections.  
 Descriptive Catalogue of the Embryological Models.  
 Catalogue of Egyptian Antiquities of the XII. and XVIII. Dynasties.  
 Outline classification of the animal kingdom.  
 The Tomb of Two Brothers.

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1913.