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ANNUAL REPORT
OF
THE DIRECTOR
OF THE
MUSEUM OF COMPARATIVE ZOOLOGY
AT HARVARD COLLEGE
TO THE
PRESIDENT OF HARVARD COLLEGE
FOR
1944-1945

CAMBRIDGE, U. S. A.
PRINTED FOR THE MUSEUM
1945

PUBLICATIONS
OF THE
MUSEUM OF COMPARATIVE ZOÖLOGY
AT HARVARD COLLEGE

The BULLETIN and MEMOIRS are devoted to the publication of investigations by the Staff of the Museum or of reports by specialists upon the Museum collections or explorations.

Of the BULLETIN, Vols. 1 to 95 have appeared and of the MEMOIRS, Vols. 1 to 55.

These publications are issued in numbers at irregular intervals. Each number of the Bulletin and of the Memoirs is sold separately. A price list of the publications of the Museum will be sent upon application to the Director of the Museum of Comparative Zoölogy, Cambridge 38, Massachusetts.

Publication of Memoirs ceased with Vol. 55.

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MUSEUM OF COMPARATIVE ZOÖLOGY

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Names marked with an * in Government service.

REPORT OF THE DIRECTOR

1944-1945

TO THE PRESIDENT OF HARVARD COLLEGE:

Sir:

In several ways this year has been a most momentous and perplexing one for the Museum. A number of unexpected situations have arisen in connection with various financial aspects of the department, problems, however, which have led to my great satisfaction and enjoyment. For I have found that the Museum has two great and good and hitherto unknown friends. They are warmer, more kindly, and more sympathetic than I ever dreamed anyone might be. Mr. Conant has had to pass a large part of his time in Washington in connection with his Governmental activities, tied up with the war effort. This has thrown the active day by day management of the University in the efficient hands of Mr. William H. Clafin, Jr., the Treasurer, and Dean Paul H. Buck. Both of these men have proved to be more than the shadows of great rocks in a weary land. They have indeed been the shadows *and* the rocks too. I owe them a word of sincere and heartfelt thanks before proceeding with my report.

Mr. Nathan Banks has resigned after twenty-nine years of devoted service to the Museum. The magnificent collection which he brought to us when he came here from Washington has never been adequately acknowledged nor was he ever properly thanked at the time he gave it. The work which he has done here has ended in making our collection of the Neuropterous insects, in which he was especially interested, the most outstanding assemblage representing this group possessed by any museum in the world. As a superlative research resource it stands as one of our most treasured possessions, one to be mentioned in the same breath as our collection of the Echini which is likewise a monument to another great friend of the Museum, Mr. Alexander Agassiz. Mr. Banks has our deepest thanks and warm appreciation for all he has done for the Museum. He leaves to Dr. Joseph

Bequaert, his successor, a charge which I feel quite sure he is well capable of meeting. This is no less than the maintenance of the present high standard of perfection of arrangement and preservation of this great and ever-growing collection of insects.

Speaking with Dr. Bequaert this very morning, a fact by chance flashed into my mind which I had not thought of for many years. I met Dr. R. P. Strong in August 1923 near the St. Botolph Club on Newbury Street. He was then organizing the Department of Tropical Medicine for the Harvard Medical School with funds provided by Dr. F. C. Shattuck. Strong said to me, "I need a first class medical entomologist." I said, "You can get him in New York if you use the telegraph," for I happened to know that Dr. Bequaert was sailing on the *Belgenland* for Belgium the next day. Strong used the telegraph and the result was that Dr. Joseph Bequaert came at once to Boston and he has served Harvard University with great distinction in several capacities until finally he now becomes Head Curator of Recent Insects in the Museum of Comparative Zoölogy. If Strong had chanced to speak to me a day later everything would have been different. We played in great good luck.

Owing to the fact that he has had to expend so much of his time in active teaching it has never been possible for Professor Percy E. Raymond to spend as much time in curatorial duties on our gigantic assemblage of invertebrate fossils as Professor Banks was able to do, but nevertheless the collection has grown steadily and its value has been greatly enhanced because it has served as the basis for so many of Professor Raymond's distinguished contributions to science. The evidence for the conclusions which he reached will ever rest in the specimens which he studied, and thus they become precious documents indeed.

This year I am going to do as I did last year. It is more economical and infinitely less troublous to the Staff if I make a single general report on the situation at the Museum on behalf of the whole group.

Let me say first then that this year Dr. Henry B. Bigelow, Dr. Frank M. Carpenter, and myself received appointments to Professorships under the Alexander Agassiz Foundation.

All our Staff in the armed services are safe and well. Dr. Darlington, who had a bad time with that crocodile in Guadalcanal, as I think everyone now knows, is entirely himself again, and during his period of recuperation spent in high New Guinea managed to make an ascent of Mt. Wilhelm, 15,400 feet, to the end that we have received from a most unusual and desirable locality a great collection of wonderful insects, three new lizards, one of a genus hitherto unknown from New Guinea, three new tree frogs, and possibly some others.

Dr. White is still in Italy, but with plenty of points for return and will, we hope, be back soon.

Dr. Fenner Chace continues his work in Washington and we hope that his release may not now be too long delayed.

Lt. R. Tucker Abbott has been transferred from the Navy Air Forces to Research Medical Personnel, and is working in the Pacific on Schistosomiasis, a disease which is transmitted by parasites of which various mollusks are the hosts.

While speaking of service men, I may say that the Navy which occupies all our spare space in the building, has been extremely friendly and cooperative since the very beginning of their first coming to the Museum and the deportment of the young men receiving instruction in our building certainly leaves nothing to be desired.

As usual the Department of Fishes has been benefited by the voluntary labors so generously bestowed by Mrs. Myvanwy Dick, who has made considerable progress with the relabelling and the general reorganization of the collection. She has been assisted by Mrs. Louise Kimball, who has examined and refilled when necessary the alcohol in all the jars, some 40,000 or more, and polished up the glassware of the entire collection. This is indeed a gigantic task. The monograph on the sharks of the Eastern North Atlantic by Professor Bigelow and Mr. Schroeder has gone to press and its fellow monograph on the skates is well advanced. In this latter group there are many new species to be described as the result of the activities of the *Atlantis* in the deep waters about the Cuban coast.

Mr. Loveridge reports the welcome news that Mr. Benjamin

Shreve, after two and a half years in the Army, has returned to work owing to a medical discharge. Members of the armed forces in the southwest Pacific have contributed the best part of the 700 specimens received during the year, and the 52 forms received new to the Museum bring the total of named reptiles and amphibians in the collection to the very large number of 6,165. Twenty-one loans to eighteen separate institutions prove the use to which the material in this department is constantly put. Needless to say, our thanks are conveyed to Sgt. W. M. Beck, Jr., Capt. L. W. Jarcho, Gunner T. R. Tovell of the Australian Forces, and Dr. H. G. Kugler for material often collected under circumstances of great difficulty. As a matter of fact, through the interest of Captain Jarcho many departments in the Museum besides just that of reptiles have received much interesting material. He is a born collector and a very discriminating one.

Mrs. William Schevill reports the mammal collection now in good condition and free from insect pests which, at one time, threatened us with a good deal of trouble. This has been overcome. Generally speaking, her work has been principally routine identification of material already in our collection but unworked, as well as collections submitted for examination which are not yet completely studied and which will be reported upon next year.

J. L. Peters reports the appearance of the fifth volume of his great work, *A Checklist of Birds of the World*, and that good progress has been made on the preparation of the sixth. This is indeed welcome news. He received by purchase a collection of 48 hawks and owls from the Island of Cyprus, collected by Mr. Mavramoustakis. Commander Oliver F. Austin, Jr., U.S.N.R. has continued to contribute welcome desiderata from islands in the south Pacific from which previously we had practically no representation. Dr. Austin has put us in his everlasting debt for no one has ever collected more or finer material under difficult circumstances than he has.

A number of structural changes are planned in the Entomological Department since the taking over of Dr. Bequaert gives

us a good excuse to do some redecoration and some expansion of the storage space which has been needed for a very long time. Mr. V. Nabokov has carried along the rearrangement of the collection of butterflies, has also collected some material in the West, and continued some most interesting research in the evolution and development of color pattern in butterflies' wings which is almost ready for publication. The Department has benefited by the generous voluntary services of Mrs. George S. Patton, Jr., in helping with the annual poisoning of the collection, while, at the present time, Mrs. Louise Kimball is cleaning the glass on the tops of each one of the individual insect boxes, a task which has not been done for many, many years and which requires great delicacy and skill, inasmuch as it has to be done without jarring the individual boxes to the detriment of insects therein.

Mr. Griscom has published a fine little book on what may be called avian sociology and the behavior of avian populations which I personally have studied with great enjoyment and profit and which I predict that many others will do likewise. These were the result of his Lowell Institute Lectures and were published by the Harvard University Press. He continues his general ministrations in connection with the preparation of the budget and the supervision of our publications. Thanks to Mr. George R. Agassiz's generosity, we have made a most satisfactory reduction of the pile of manuscripts awaiting publication.

Dr. Elisabeth Deichmann's time has been more than fully occupied with the general supervision and care of the multitudinous collection of marine invertebrates and the fact that she has the care also of Dr. Chase's material in his absence. This has meant that she has had little time to do anything else.

Until Dr. T. E. White returns from his Army services in Italy and Professor A. S. Romer, who is now head of the Biological Laboratories, is allowed a cessation of the continuous teaching which the War has forced upon him, naturally our palaeontological program has more or less come to a standstill, especially since Professor P. E. Raymond is retiring. A little preparation has been possible from time to time, and Mr. Nelson has completed one of the most arresting and spectacular mounts which

he has ever made. This is the example of a complete, associated skeleton of the great heavy-bodied rhinoceros, *Teleoceras*, from the Pliocene of Nebraska, which was obtained in exchange from Yale University. This extraordinary creature which was a rhinoceros probably with the habits more or less like those of a hippopotamus, was secured by great good fortune, inasmuch as the quarry whence the material was secured is now worked out and it is probable that no more specimens will ever be obtained. This mount has been prepared with the artistry and skill which we always associate with Mr. Nelson's work. Also it is not unlikely to be perhaps the last of the large fossil skeletons which will be put up in this Museum for many, many years, inasmuch as we have about filled up our last available space for such objects.

Mr. Nelson has made an extensive collection of spiders from Alabama, a region from which we have very little material of any nature.

I have left to the last the notice of the Department which, at the moment, is the most active in the Museum. This is the Department of Mollusks. Largely owing to the generous assistance of Mr. Richard W. Foster, it has been possible to arrange for the appearance of the special publication of a series of monographs emanating from this Department. These are published under the name of *Johnsonia* and this has become immediately popular amongst shell enthusiasts and already has a wide circulation. The Department is by way of receiving an enormous increment to its resources from the private organization of Mr. William Clapp, who for years has been studying and collecting marine borers. These mollusks destroy wharves and piling in all parts of the world. His collections, which are to be transferred to our care, will ever be an important adjunct to our reference material and of use not only as an addition to our own resources for research but of great interest to the Navy and to the Merchant Marine as well.

The Department reports its accessions as 6,003; catalogued entries, 156,076; number of species, 28,145. It has been enriched by about 2,000 lots of dredged molluscan material collected and donated by Mr. Richard W. Foster and Mr. L. A. Burry from

the waters about Florida. This contains only selected lots of beautiful and significant species. Smaller collections have been received from various men in the Army and Navy, among others Capt. M. S. Ferguson, Capt. Benjamin L. Huntington, Captain Jarcho, and Lieutenant Abbott.

Dr. F. M. Carpenter spent much of his time during the past year instructing four classes of naval personnel in premedical zoölogy and medical entomology.

The Library has grown very satisfactorily. There has been good progress in binding and reorganization, as much indeed as can be done with the Navy occupying the space which it still so badly needs. Mrs. Frazier's industry and skill in finding and segregating duplicate publications and then selling them most successfully, as well as the fact that we have had good luck in selling back publications, has added materially this year to the very meagre liquid funds of the Museum. Maj. John Wendell Bailey, a former student of mine and a warm friend, now in the SHAEF in Germany, has collected and sent to us a vast number of recent German books which are welcome additions not only to our library but to many other libraries in the University. This has been a gift of very real and timely value.

Since the European war has ended I am happy to say our foreign exchanges have begun again and here once more I have to thank Mr. George R. Agassiz, who has allowed me, under certain circumstances, to dip into his generous gift for general library purposes, specially to pay for temporary assistance.

For myself I will only say a word. My health has been none too good and I have not engaged actively in any research work during the year. I have been able to give a reasonable amount of time to my administrative duties and have found relaxation in writing, a pursuit which for some strange reason has given me great tranquilization and enjoyment.

It seems to me that all things considered, the multitudinous difficulties of the times being as they are, the Museum has had an extremely successful year. As usual we owe our thanks to the great number who, this year as in every year since the Museum was founded, have aided with greatly appreciated labors voluntarily performed.

PUBLICATIONS FOR THE YEAR 1944-1945

(31 July, 1944—1 August, 1945)

Museum of Comparative Zoölogy

Publications: The following have been printed during the year.

Vol. XCIV

- No. 7. The Social Vespidae of the Guianas, particularly of British Guiana. By Joseph Bequaert. 58 pp. August, 1944.
- No. 8. The Bird Fauna of the West Sumatra Islands. By Dillon Ripley. 127 pp. October, 1944.
- No. 9. Fossil Cetaceans from the Florida Tertiary. By Remington Kellogg. 40 pp. November, 1944.
- No. 10. Late Paleozoic Xiphosurans. By P. E. Raymond. 35 pp. November, 1944.

Vol. XCV

- No. 1. Revision of the African Lizards of the Genus Cordylidae. By A. Loveridge. 118 pp. November, 1944.
- No. 2. Further Revisions of African Snake Genera. By A. Loveridge. 128 pp. December, 1944.
- No. 3. A Revisional Study of the Fossil Syphidae. By Frank Montgomery Hull. 180 pp. 13 pls. April, 1945.
- No. 4. The Argiopidae of Hispaniola. By Elizabeth B. Bryant. 62 pp. 4 pls. May, 1945.
- No. 5. A Revision of the Genus *Epicauta* in America north of Mexico (Coleoptera, Melaedae). By Floyd G. Werner. 96 pp. 7 pls. May, 1945.

Publications by the Museum Staff

BANKS, N.

- The Psammocharidae (Hymenoptera) Taken at Kartabo and other localities in British Guiana. *Zoologica* 29, no. 1944, pp. 97-112.
- Neuroptera of Northern South America. Part III. Chrysopidae. *Boletin Entom. Venezolana* II, 1944. pp. 1-34.

BARBOUR, T.

- The Florida Ditches. That Vanishing Eden. Atlantic **174**, No. 2, pp. 99-102. August, 1944.
- The Kampong. That Vanishing Eden. Atlantic **174**, no. 3, pp. 77-80. September, 1944.
- Reganula gigantea to replace Reganiethys giganteus. Copeia 1944. No. 2, June 30, p. 123. September, 1944. (With H. B. Bigelow).
- Ornithologists Alive! II. Ludlow Griscom. Bull. Mass. Audubon Soc. vol. 28, no. 6, pp. 194-195. 1 pl. October, 1944.
- That Vanishing Eden, A Naturalist's Florida. Atlantic, Little Brown and Co., Boston. 250 pp. 25 ills. November, 1944. 2nd printing December 1944, 3rd January 1945, 4th February 1945, 5th April, 1945.
- Bats. The Naturalist in Cuba. Atlantic **175**, no. 6, pp. 90-93. June, 1945.

BEQUAERT, J.

- A New species of Polybia from Panama. Ann. Ent. Soc. America, **36**, pp. 394-396. September, 1943.
- Stingless bees nesting in association with ants. Bull. Brooklyn Ent. Soc., **38**, p. 141. October, 1943.
- Pseudomasaris in Wyoming and Nebraska. Bull. Brooklyn Ent. Soc., **38**, p. 120. October, 1943.
- Color variation in the American social wasp, *Polistes canadensis* Linnaeus); with descriptions of two new forms. Bol. Entom. Venezolana, **2**, pp. 107-124. June, 1943.
- On the so-called *Mischocyttarus ater*. *Polybia atra*, and their relatives. Ann. Ent. Soc. America, **36**, pp. 717-729. December, 1943.
- The dipterous family Mydaidae in Canada. Canadian Entom., **76**, p. 44. February, 1944.
- The genus *Eumenes* in the Dominion of Canada. Naturaliste Canadien, **71**, pp. 75-88. April, 1944.
- Further studies of the Tabanidae of Trinidad. Psyche, **51**, pp. 12-21. June, 1944.
- A revision of *Protopolybia* Ducke, a genus of Neotropical social wasps. Rev. de Entomologis, **15**, pp. 97-134. August, 1944.
- The social Vespidae of the Guianas, particularly of British Guiana. Bull. Mus. Comp. Zoöl., **94**, pp. 249-303. August, 1944.
- The North American species of *Ancistrocerus*, proper. Entomologica Americana, N. S., **23**, pp. 225-286. January, 1944.
- An unusual occurrence of *Lynchia americans* (Leach). Bull. Brooklyn Ent. Soc., **40**, p. 30. February, 1945.

BIGELOW, H. B.

Reganula gigantea to replace *Reganichthys giganteus*. *Copeia* 1944, No. 2, June 30, p. 123. September, 1944. (With T. Barbour).

Guide to commercial shark fishing in the Caribbean area. Anglo-American Caribbean Commission, Washington, D. C., Kaufmann Press, inc. Sect. 1, pp. 13-25 and appendices, pp. 69-149. March, 1945. (With William C. Schroeder).

BRUES, C. T.

Fluorescent Staining of Insect Tissues. *Science*, **100**, Dec., 1944, pp. 554-555.

New Neotropical Phoridae. *Psyche*, **51**, Sept.-Dec., 1944, no. 3-4, pp. 150-161.

The Effect of Penicillin and Certain Sulpha Drugs on the Intracellular B acteroids of the Cockroach. *Science*, **101**, April, 1945, pp. 336-7. (With Ruth C. Dunn).

Frank Eugene Lutz — Obituary. *Anat. Rec.*, vol. 91, 1945, pp. 16-17.

BRYANT, E. B.

Three Species of *Coleosoma* from Florida (Araneae; Theridiidae). *Psyche* **51**, pp. 51-58, 1 pl.

The Argiopidae of Hispaniola. *Bull. Mus. Comp. Zoöl.*, 1945, **95**, pp. 358-418, pls. 1-4.

CLARK, H. L.

The Pteryloses of some Australian Birds. *The Auk*, vol. 62, No. 1, pp. 70-74, 2 figs. January, 1945.

Echinoidea: in *Geology of Lau, Fiji* by Ladd and Hoffmeister. *Bull.* **181**, Bernice P. Bishop Museum, pp. 312-328, pls. 41-43. January, 1945.

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Anoma flexuosa (Pfeiffer). *Nautilus* **58**, pp. 31-32. August, 1944.

A Large Specimen of *Ensis directus* Conrad. *Nautilus* **58**, p. 31, August, 1944.

Giant Snail of Malaya. *Minutes of the Conchological Club of Southern California*, No. 39, p. 2. September, 1944.

Harvard-Bahama Expedition, 1904. *Johnsonia* No. 14, p. 7. October, 1944.

The Genus *Columbarium* in the Western Atlantic. *Johnsonia* **15**, pp. 1-4, 1 pl. October, 1944.

- The General Casmaria, Galeodea, Phalium and Cassis in the Western Atlantic. *Johnsonia* **16**, pp. 1-16, pl. 1-8. October, 1944.
- Otala Lactea (Müller) in Texas. *Nautilus* **58**, p. 67. October, 1944.
- A New Tropical Buccinum from Cuba. *Revista de la Sociedad Malacologica* (Carlos de la Torre), vol. 2, No. 2, p. 67-68. December, 1944.
- A New Subspecies of *Oliva reticularis* Lamarek, from the Bahamas. *Mollusca* **1**, No. 4, p. 49 and plate. April, 1945.
- The Genus Murex in the Western Atlantic. *Johnsonia* No. 17, pp. 1-56, 28 plates. May, 1945. (With I. Perez Farfante).
- New species of Succinea from Tahiti, with Remarks on other Polynesian species. *Occ. Paps. Bernice P. Bishop Museum, Honolulu, Hawaii*, vol. XVIII, No. 8, May 1945. (With C. Montague Cooke, Jr.).
- Harvard Navassa Expedition. *Mollusca* **1**, No. 5, pp. 64-66. June, 1945.
- Some Notes on the Life and Explorations of Hugh Cuming. *Occ. Paps. on Mollusks*, No. 3, pp. 17-28. July, 1945.

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GRISCOM, L.

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- The Season, Boston Region, Apr. 1-May 30, *Aud. Mag.*, **46**, No. 4, Aug. 1944, Sect. II, pp. 2-3.
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- The Season, Boston Region, May 15-June 15, *Aud. Mag.*, **46**, No. 5, Sect. II, pp. 2-3.
- The Changing Seasons. *Nat. Audubon Mag.*, **46**, No. 6, Dec., 1944, pp. 378-379.

- The Seasons, Boston Region, July 15-Sept. 15, Aud. Mag., **346**, No. 6, Dec., 1944, Sect. II, pp. 1-2.
- The Changing Seasons, Nat. Aud. Mag., **47**, No. 1, Feb., 1945, pp. 55-56.
- The Season, Boston Region, Fall Migration. Aud. Mag., **47**, No. 1, Feb., 1945, Sect. II, pp. 1-2.
- Difficulties with Mass. Gulls. Bull. Mass. Aud. Soc., **28**, No. 6, Oct., 1944, pp. 181-191, 2 pls.
- Night Flight of Thrushes and Warblers. Bull. Mass. Aud. Soc., **29**, No. 2, March, 1945, p. 43.
- A second Revision of the Seaside Sparrows. Occ. Papers Mus. Zoöl. Louis. State Univ., No. 19, Dec. 30, 1944, pp. 313-328.
- Observations of Rare Northern Gulls in Virginia. The Raven, **16**, Nos. 1-2, Feb., 1945, p. 1.
- Birds of the Southwest Pacific. By Ernst Mayr. (Review). Auk, **62**, No. 2, Apr., 1945, pp. 319-321.
- The Changing Seasons. Nat. Aud. Mag., **47**, No. 3, June, 1944, p. 185.
- The Season, Boston Region; winter birdlife. Aud. Mag., **47**, No. 3, June, 1944, Sect. II, pp. 17-18.
- Modern Bird Study. Harvard University Press, June 1, 1945, 8 vo., pp. i-x + 190; 15 pls., 10 figs.
- Barrow's Golden-eye in Massachusetts. Auk, July 1945, pp. 401-405.

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- Three new pteropus from New Caledonia and the Solomons. Proc. New Engl. Zoöl. Club, vol. 23, pp. 59-69. March, 1945.

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- Bibliography of Papers by Arthur Loveridge 1937-1944. Priv. printed, Cambridge, Mass. pp. 9-12. June, 1944.
- Captain Darlington attacked by Crocodile. Copeia, 1944, p. 128. June, 1944.
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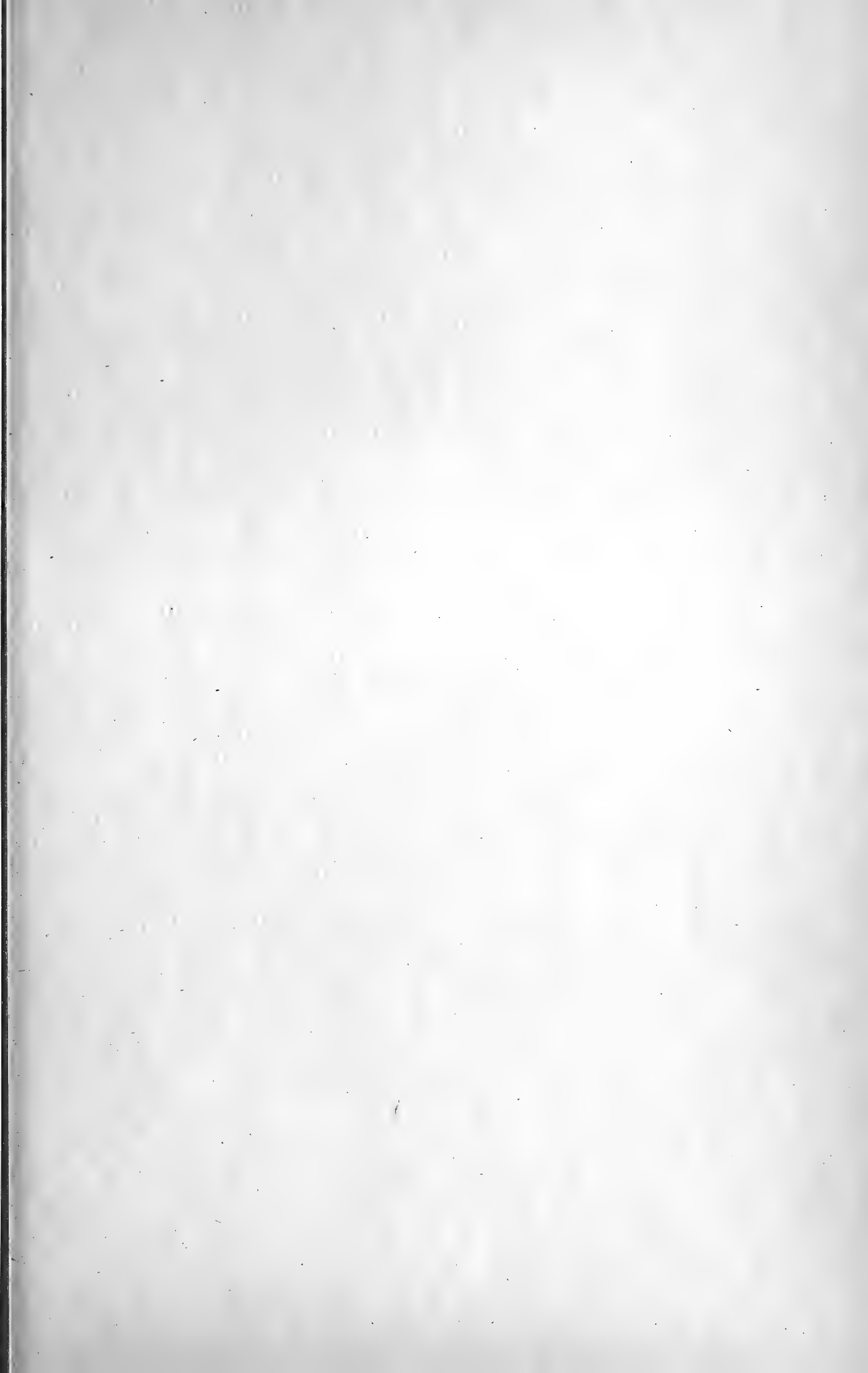
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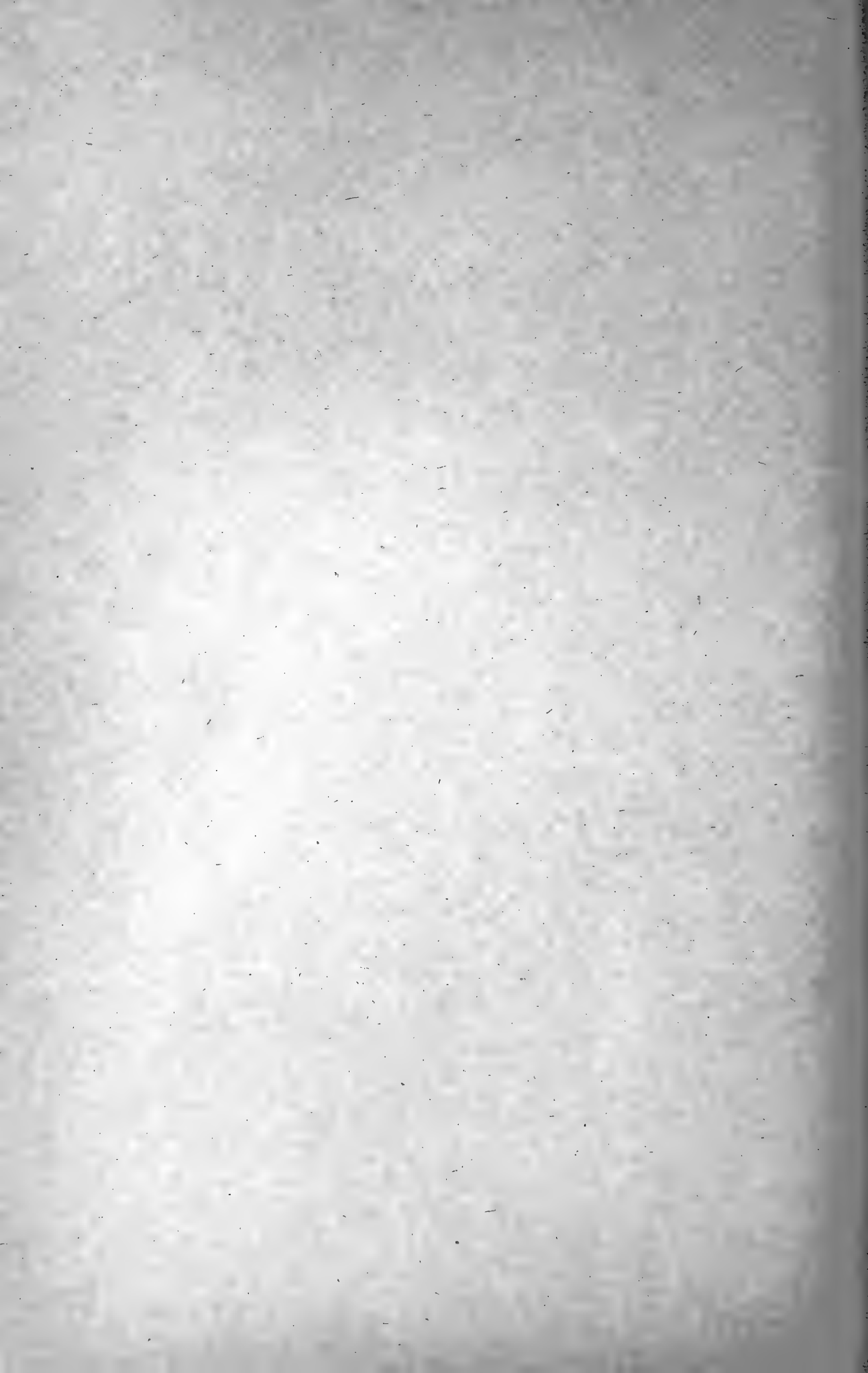
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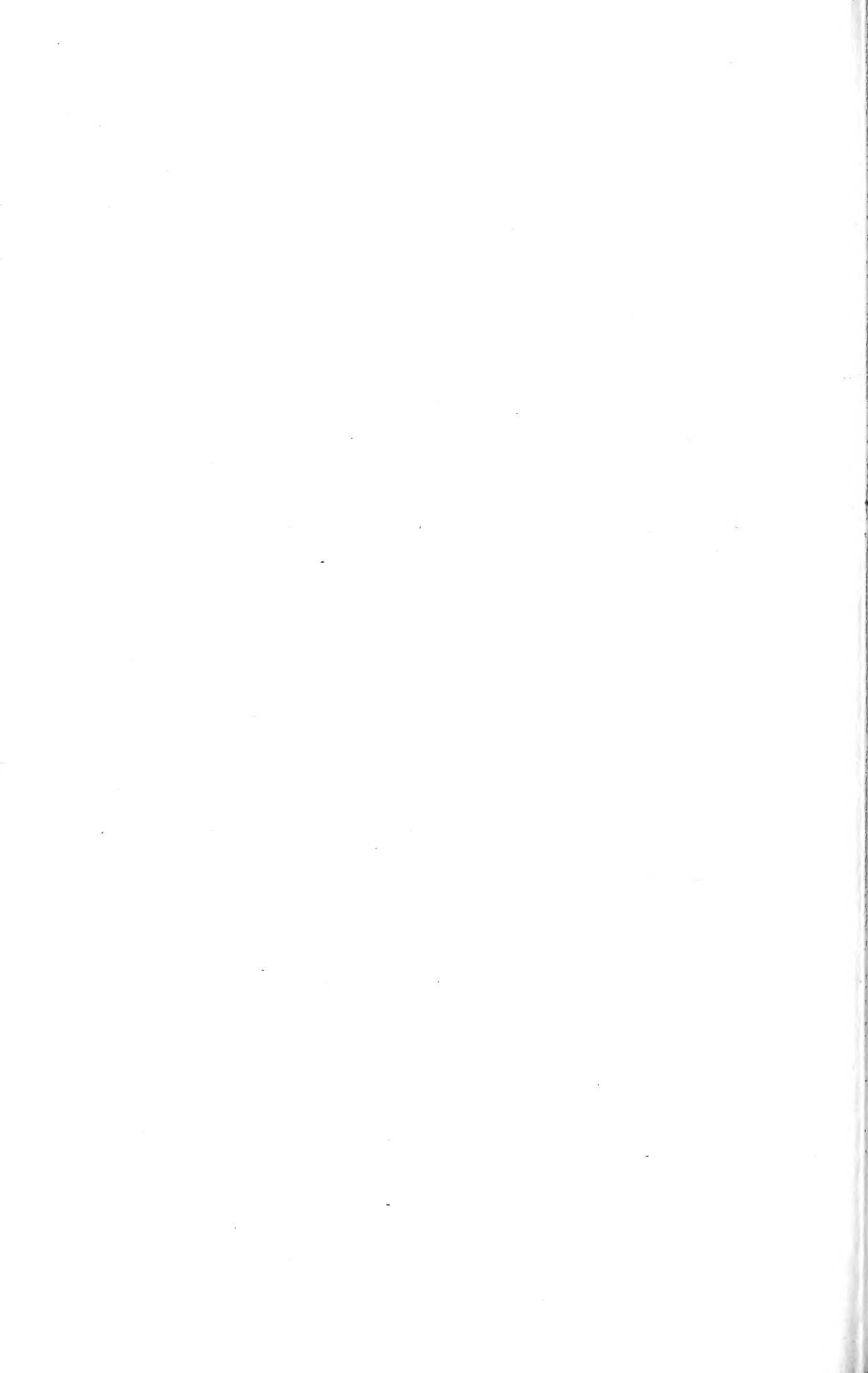
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