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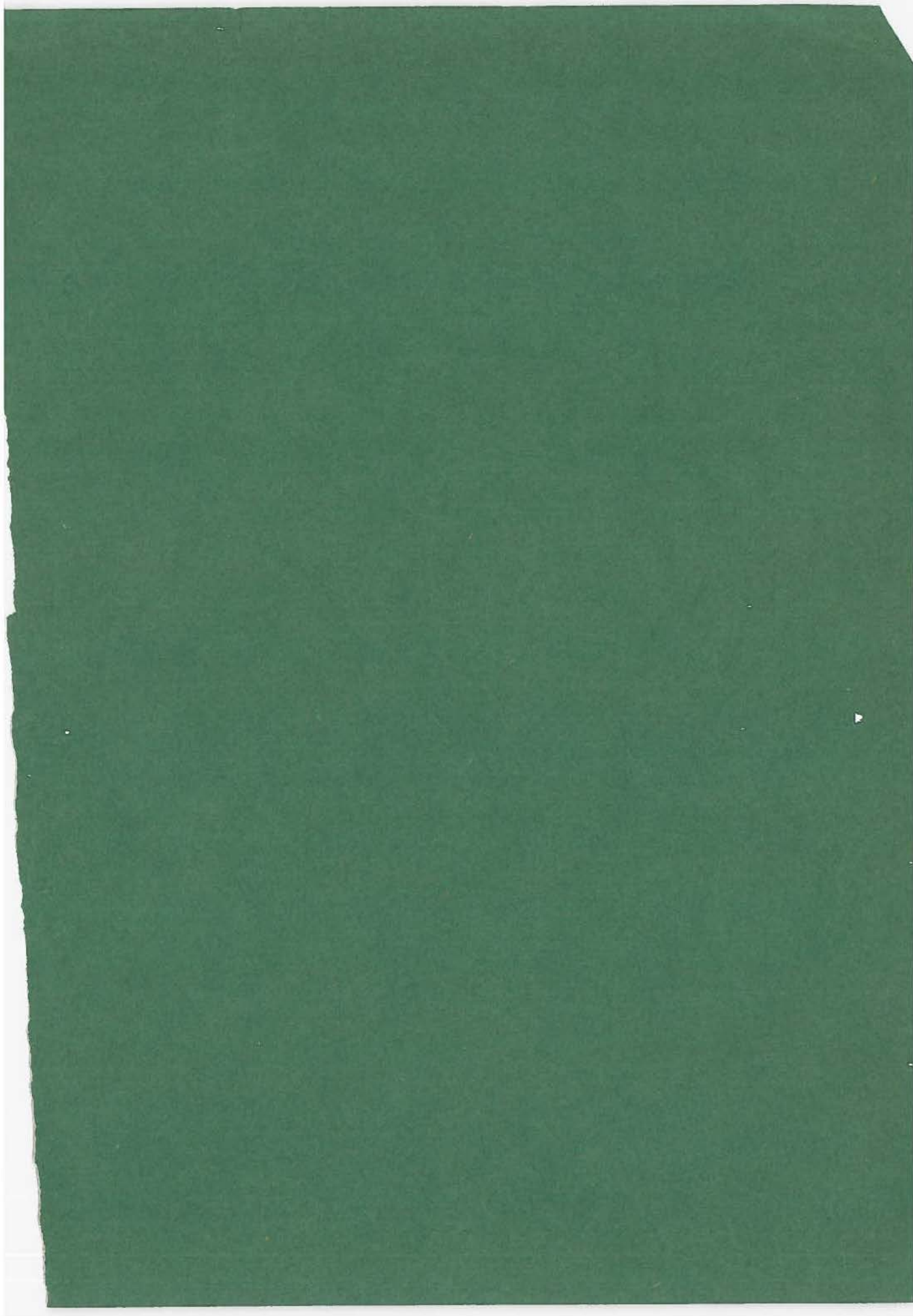
Research and Information

SCIENTIFIC INVESTIGATIONS
IN
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A CONCISE HISTORY OF SCIENTISTS AND SCIENTIFIC INVESTIGATIONS
IN YELLOWSTONE NATIONAL PARK

With a bibliography of the results of research
and
travel in the Park area.

by

Carl P. Russell, Field Naturalist

Because the Yellowstone National Park is regularly visited by numbers of scientific workers and classes of students, it seems desirable to make available the fundamental information upon Yellowstone studies that have been made in the past. This compilation of history and the organized bibliography which accompanies it were prepared, primarily, to facilitate work in Yellowstone museum studies. I am indebted to Dr. H. C. Bumpus and his American Association of Museums committee on National Parks for material support and important counsel during three extended trips to libraries and museums in the Eastern United States. Without access to these repositories of records the appended bibliography would have made less pretense of thoroughness. Mr. H. M. Albright and Dr. H. C. Bryant of the U. S. National Park Service, have given advice and encouraged my continued attention to the compilation. Members of the Yellowstone administrative staff have facilitated the work by lending clerical assistance.

Libraries and librarians that have cooperated in the work are too numerous to list ad finem, but chief among them are the Yellowstone Park libraries, the Bancroft Library, the Widener Library, the libraries of the Museum of Comparative Zoology, the Congressional Library, the U. S. Geological Survey library, the American Museum library, and the Montana Historical Society library.

I have taken advantage of all known Yellowstone bibliographies compiled by others. They appear in the attached list of Historical and Descriptive items, as follows:

Albright, 1924; Bishop, 1932; Cameron, 1922, Chittenden, 1895; Cramton, 1932; Emmons, 1894; Farquhar, 1924 and 1926; Haynes, 1931;

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LeClercq, 1886; McElrath, 1880; National Geographical Society, n.d.; Palmer, 1932; Peale, 1883; Roes, 1918; Russell, 1930; Schmeckebier, 1904; Skinner, n.d.; United States Department of the Interior, 1912-1919; United States Department of the Interior, 1931-a. (Wild Life Surveys); Wagner, 1921.

Sixty years ago, the area embraced within the present park limits was the least known of all sections of the West. The publications of members of the 1871 Hayden Yellowstone party first attracted wide attention to the remarkable natural phenomena of the place, and since that time many Government bureaus, research institutions, and individual scientists have pursued studies there, with the result that Yellowstone problems have been attacked from many angles and published accounts have become numerous.

More than a hundred specialists have spent from a few weeks to several years in the park, and over one thousand Yellowstone titles have taken places in our literature. Because of the early initiative of geologists, papers on petrology, geochemistry, stratigraphy, physiography, and paleontology predominate. Ecologists and systematic biologists have worked spasmodically, but there are many biological features that deserve thorough study. The large animals and the flora, as a whole, have been quite well described, but the reptiles, amphibians, and invertebrates are little known even at this late date. Ecological problems continually present themselves. Extended studies in this field are requisite to the proper administration of the great wild life preserve. (See Rush, 1933, Mammals).

The earliest information on the Yellowstone region comes from John Colter, who separated from the Lewis and Clark expedition and in 1807 traveled through the present park area. Upon his return to civilization (St. Louis), he described his journey to Captain Clark, who placed the route followed upon his map of 1814. (Coues, 1893. History).

By this time, trappers, both American and Canadian, had penetrated the utmost fastnesses of the Rocky Mountains, and it is unreasonable to doubt that the headwaters of the Yellowstone had been entered by adventurers other than Colter. However, no printed mention of the wonders of the Upper Yellowstone is to be found until 1827. The Rocky Mountain Fur Company became a power in the Yellowstone region about 1826, and parties of trappers allied with this organization are known to have visited the present park area in 1827. Evidence of this visit exists in a trapper's letter published in the Niles Register, October 6, 1827. This letter constitutes the first printed account of Yellowstone phenomena. (Niles Register, 1827. History).

Another trapper of the Rocky Mountain Fur Company penetrated the park area from the north to the geyser regions in 1829. This was Joseph Meek, whose experiences were not published until 1870. (Victor, 1870. History). W. A. Ferris, a clerk of the North American Fur

Company, entered the Yellowstone geyser region in 1834. His "Life in the Rocky Mountains", published in the Literary Messenger of Buffalo, N. Y., of 1843 and 1844, contains a scholarly account of his observations in the present park region. (Ferris, 1843-1844. History). Osborne Russell, a member of the Wyeth expedition, was in the park in 1835, 1836 and 1839. In his published journals appear the first description of Old Faithful and detailed accounts of all Yellowstone phenomena. (Russell, Osborne, History). Other trappers, noteworthy among them being Jim Bridger, are known to have entered the present park region early in the 19th century. They were illiterate men, for the most part, and their pioneer knowledge of the place produced no published results. The fur trade declined and by 1850 had all but disappeared. With its disappearance, the knowledge and rumor of the Upper Yellowstone also disappeared.

Beginning in 1849, the United States Government sent numerous geologists into the Upper Missouri country, but none ascended the Yellowstone above its great bend at the site of the present Livingston. In 1859, a party under General W. F. Reynolds essayed "the exploration of the Yellowstone and the country drained by that river". Deep snows and a desire to reach the Canadian boundary in time to observe a total eclipse of the sun prevented entrance to the basin of the headwaters of the Yellowstone, but the country adjacent to the present park on all sides was visited. This expedition provided F. V. Hayden's introduction to the Yellowstone Park region, - a country with which he was later closely identified. Scientists with the party were F. V. Hayden, naturalist and surgeon; H. C. Fillebrown, meteorologist; A. Schonborn, meteorologist and artist; and J. J. Snowden, topographer. Scientific collections were put in the hands of such specialists as Geo. Engleman, S. F. Baird, J. S. Newberry, Prof. Leidy, Isaac Lea, Chester Dewey, and Prof. Sullivan.

Reynolds' report, (Senate Ex. Doc. No. 77, 40th Congress, 1st Session), is an interesting account of the journey and route traveled but contains no scientific reports. The "Geological Report of the Exploration of the Yellowstone and Missouri Rivers", by Dr. F. V. Hayden, Washington, Government Printing Office, 1869, contains a brief history of the Upper Missouri and an account of the geology of that portion of the Reynolds' route explored by Hayden. Newberry's report on Cretaceous and Tertiary plants is included in the paper.

Immediately after this expedition returned from the wilderness, public and official attention was engrossed with the attempted disruption of the Union. Hayden and all other Army officers participated in the Civil conflict. Western explorations were not resumed for some ten years. Had the Reynolds' report appeared in print immediately after his return from the explorations, it is likely that the park region would have been explored in the sixties, for Reynolds' official mention of extensive volcanic phenomena in the Yellowstone basin would

most certainly have inspired some of the venturesome spirits residing in the territory. During the Civil War, the Upper Yellowstone was not entirely deserted by white men, for gold had been discovered on Alder Gulch, west of the park. Prospecting parties scoured the mountains and more than a few entered the region of Yellowstone wonders during this period. Local newspapers sought accounts of their discoveries, and they were reprinted throughout the country. (De Lacy, 1876. History).

Local citizen interest in the surprising tales was especially intense. Two Montana exploring parties were organized, one in 1869 and the other in 1870, which were to bring about final disclosure, in a popular way, of all that the region held. The first was the Folsom-Cook party of Diamond City, near Helena. The other is referred to as the Washburn-Langford-Doane Expedition. No scientists accompanied these parties, but the observing participants secured collections, sketches, and notes which were well calculated to reveal to others the true nature of the land they had explored. Of first importance among their results is the fact that with them originated the idea of preserving the wonderland as a national park. The published accounts of their experiences take eminent places in a bibliography of Yellowstone history. (Folsom, 1870; Cook, 1870; Langford, 1871; Langford, 1905; Everts, 1871. History).

The Hayden Party of 1871.

In 1871, the United States Geological Survey changed its program so as to give attention to the wonders described by the civilian explorers of 1869-70. Two expeditions, one under Dr. Hayden and the other under Captains Barlow and Heap of the Engineer Corps of the Army, were organized to travel together for the express purpose of studying the Yellowstone. About thirty five men made up the Hayden party. The scientific personnel consisted of F. V. Hayden, geologist; H. W. Elliott, artist; C. Thomas, entomologist; W. E. Jackson, photographer; J. W. Beaman, meteorologist; G. N. Allen, botanist; Robt. Adams, Jr., botanist assistant; A. C. Peale, mineralogist; C. Carrington, zoologist; C. M. Dawes, zoologist assistant; and Thos. Moran, artist (guest).

Scientific papers resulting from their studies are listed in the bibliography as follows: Invertebrates, Leidy, 1872; Horn, 1872; Uhler, 1872; Thomas, 1872; Edwards, 1872. Fish, Cope, 1872. Flora, Porter, 1872. Geology, Hayden, 1872, 1872-a, 1872-b, 1872-c.

Immediately after making this trip, Dr. Hayden busied himself in influencing the passage of the National Park Act.

The Hayden Party of 1872.

Dr. Hayden again entered the country with two parties in 1872. One group under F. V. Hayden came into the Yellowstone National Park from the north. The other under James Stevenson entered via the

Snake River and the Madison Valley. They met in the Firehole Basin. Scientists in Dr. Hayden's party were Henry Gannett, astronomer; E. B. Wakefield, meteorologist; A. C. Peale, mineralogist; W. H. Holmes, artist; and W. B. Platt, Naturalist. With Mr. Stevenson's party were F. H. Bradley, geologist; Wm. Nicholson, meteorologist; J. M. Coulter, botanist; J. Curtis, microscopist; C. Hart Merriam, ornithologist; C. Carrington, naturalist; W. H. Jackson, photographer; T. W. Jaycox, assistant; T. B. Brown, assistant; and Philo B. Beveridge, assistant.

Publications resulting from studies made at this time are:

Geology, Bradley, 1873; Hayden, 1873; Peale, 1873. Flora, Coulter, 1873. Invertebrates, Horn, 1873; Thomas, 1873; Hagen, 1873; Packard, 1873. Mammals, Merriam, 1873.

Gen. John Gibbon, U.S.A., 1872.

In 1872, too, a party commanded by Gen. John Gibbon, U.S.A., entered the park. This party made no contributions to science. (Gibbon, 1874. History).

U. S. National Parks Administration, 1872 to date.

When President U. S. Grant signed an act of Congress creating Yellowstone National Park on March 1, 1872, it was at first necessary to seek a superintendent who would serve without remuneration. Nathaniel Pitt Langford became the first superintendent and, as best he could, established the organization necessary for operation of the great preserve. Langford was succeeded by P. W. Norris in 1877. R. E. Carpenter became the fourth superintendent in 1884, and David Wear the fifth in 1885. The entire administrative system was turned over to the U. S. Army in 1886, and army officers aided by troops handled park affairs until 1916, when the U. S. National Park Service was created. In 1918 the War Department abandoned Fort Yellowstone, and civilian employees again took charge. C. A. Lindsley became the first acting superintendent under the new system. He remained in charge until 1919, when Horace M. Albright was made superintendent. Albright served ten years and then became director of all national parks. He was succeeded as superintendent of Yellowstone by Roger W. Toll on February 1, 1929.

During the sixty years of Yellowstone Park's history, a national parks conscience has developed in America. Experience in management of the great Yellowstone preserve has established definite policies to be followed by executives. The early years were characterized by groping methods which were largely concerned with gaining support of the law-makers, overcoming great physical obstacles and opening the park to the public. N. P. Langford's broad vision and the untiring energy and diversified interests of P. W. Norris are bright spots in the record of pioneer affairs in the park. During the army regime a public interest developed which resulted in the passage of an act on May 7, 1894, that put teeth into the original National Park law. A

resident United States Commissioner was appointed and empowered to try for misdemeanors and commit in the case of felonies. After this time the park and its wild life enjoyed protection not known before. (Hon. John W. Meldrum was appointed U. S. Commissioner in 1894 and still serves.) Continued public interest in Yellowstone and the other fifteen National parks and eighteen National monuments which had come into existence gradually developed a campaign for the creation of a National Park Service as a distinct Government bureau. On August 25, 1916, the National Park Service Act became a law. The military withdrew from Yellowstone National Park and the present-day administrative scheme was established.

A number of the individuals among the executives who have been at the helm in Yellowstone have had literary proclivities and some have contributed to the scientific literature on the park. The annual reports of Superintendent P. W. Norris (1877-1881) give evidences of his investigative nature. He undertook his Yellowstone duties with the enthusiasm of the explorer and the devotion of a pioneer in the cause. His good cooperation with the Government scientists in the park is notable and led to his later employment by the United States National Museum. His writings, eccentric in some respects and of poor style and arrangement, nevertheless reveal his substantial and unselfish interest in expounding the wonders of the park. His efforts to open the park to visitors were unstinted, but of necessity limited to crude methods. (See titles under Geology, Mammals, and History).

George L. Henderson came to Yellowstone Park in 1882, the year following P. W. Norris' departure. Henderson served as an Assistant Superintendent, and as such guided and otherwise contacted park visitors. He lectured in communities adjacent to the park and contributed to Yellowstone literature. In 1885 he was part-owner of the Firehole Hotel. (See History, Livingston Daily Enterprise, 1884-c and d; Henderson, 1886, 1887, 1888 and 1891).

Among the Army officers who were in charge of the park during three decades after 1886, Captain George S. Anderson, (1891-1897) is distinguished as one thoroughly devoted to writing and talking about the care of his important charge. It was he who planned the capture of the noted poacher Howell. Incidents following Howell's arrest, trial and conviction established precedent in court action which stands as an important marker along the road of Yellowstone administration and protection. Captain Anderson, with an understanding of the administrative need for a reference library, formed the nucleus of the Yellowstone library which today is the best collection of Yellowstone titles preserved in any one collection. (See History, Management, Mammals).

General Hiram Martin Chittenden, Corps of Engineers, United States Army, took an important place in Yellowstone affairs during the period of transition from the old order to the new. He began his Yellowstone work with a two years' detail in 1891 and 1892. He was a great admirer of the "pioneer" and a thorough student of history. He recorded the

human affairs of the Yellowstone country in a book which today stands as the most readable and comprehensive work on the park. (History, 1895). From 1899 to 1906 he was in full charge of Yellowstone road work and played a leading part in bringing about the changes which in 1915 enabled automobiles to enter the park. His researches in the history of western America produced material on the Yellowstone country, the fur trade, and the navigation of the Missouri River which are classics of utmost value to historians as well as to the general reader. (See History). He was an ardent collector of books. This fact, coupled with his knowledge of Western Americana, resulted in notable additions to the Yellowstone library established by Superintendent George S. Anderson. General Chittenden takes a leading place on the list of men of letters who have engaged in administrative work in Yellowstone Park.

Ten Superintendents followed Captain Anderson as Chief executives in the park who, apparently, found it impossible to devote time to writing or original studies. Little evidence exists that many of their subordinates applied themselves to descriptions of the wonderland in which they lived. Routine reports constitute their only contributions to Yellowstone literature. Edgar A. Mearns, an Army Surgeon with troops in the park, published one paper to be noted as an exception. (See Birds). Col. S. B. M. Young, Superintendent in 1897, 1898, and 1907 published notable material on wild life in his annual reports. (See Mammals).

The lack of attention to writing and general interpretation of park phenomena for public good was remedied in 1919 when Horace M. Albright came to the park to begin his ten year period as chief executive representing the new bureau of National Park Service. Mr. Albright had been Assistant Director of National Parks since the passage of the National Park Service Act in 1916. He recognized the desirability of establishing a public contact division even before his arrival in the park. M. P. Skinner, who had as a student, guide, and road overseer of the Engineer Corps, U.S.A., studied in the Yellowstone since 1898, was induced to return to Yellowstone. He was interviewed by Mr. Albright in Washington and appointed a Park Ranger on October 1, 1919. The next spring he became Park Naturalist charged with the responsibility of organizing a Yellowstone Museum and educational plan. Thus was started the permanent Yellowstone educational and public contact work which has become a major activity.

Mr. Albright, a trained lawyer, was fully cognizant of the necessity of basing his administration of the great park upon the firm basis of research. He applied himself to broad Yellowstone studies and encouraged investigations by his employees. (See Albright, Mammals; Management; Museums and Educational Work; History). A marked step in establishing research as a park project was made in 1928 when Wm. Rush was employed to devote full time to mammal studies in the park.

The Yellowstone library became a center of administrative interest during Mr. Albright's incumbency. Under the momentum which he gave the

library project an outstanding collection of Rocky Mountain material has been accumulated which finds its chief use as a research library for Yellowstone employees. Limited administrative funds are made available annually with which to purchase new items. Recently a large and valuable collection of pertinent scientific material has been obtained by Dr. H. C. Bumpus from the American Museum.

The public contact or educational department has steadily progressed and increased in service. Museums have been established, nature trails developed, programs of lectures and trips afield successfully conducted, and popular nature notes and information manuals published. In the twelve years that have elapsed since the creation of the service it has not been possible to complete the administrative and public contact work projected for the future. Demands of routine office work have held members of the park's educational staff very closely to their administrative and technical duties, but nevertheless, some of these employees have found time to make important contributions to the knowledge of the park area.

Mr. M. P. Skinner resigned as Park Naturalist in 1922. During his four years of official employment he continued his natural history studies, begun many years before, whenever conditions permitted. Numerous important papers on Yellowstone subjects were produced by him during this period. (See Birds; Mammals). "Yellowstone Nature Notes", now a monthly bulletin distributed to nature lovers, was first produced by Mr. Skinner as "Monthly letters" in 1920. This publication has become an important outlet for the expression of all Yellowstone staff members. After Mr. Skinner's resignation he continued to function in the Yellowstone program as a member of the staff of the Roosevelt Wild Life Experiment Station. In 1923 Dr. Frank E. Thone served as temporary Park Naturalist, (See Flora), but it was not until 1924 that the permanent position was again filled. Mr. Edmund J. Sawyer, an artist-ornithologist, was appointed to the permanent position, and functioned as museum preparator for five years. He revamped the Yellowstone Letters started in 1920, producing the mimeographed publication known as "Yellowstone Nature Notes". Mr. Sawyer's ability as an artist gained immediate recognition for these Yellowstone pamphlets. (See Birds; Mammals).

During the period of Mr. Sawyer's employment, Dr. H. S. Conard was placed in charge of the summer program of lectures and trips afield. His energy and vision played an important part in founding the organized service which today characterizes the Yellowstone Educational Department. In spite of heavy demands put upon him as chief administrator of the summer program of public contacts, Dr. Conard exerted himself to contribute to the original studies of Yellowstone phenomena. (See Flora; Geology; Miscellaneous). At this time particular emphasis was given to the development of museum collections. Superintendent Albright appointed J. E. Haynes Acting Director of the Yellowstone Museum. This freed Mr. Sawyer to devote

full time to the type of work for which he was best suited. Mr. Haynes was, and still is, park operator and authorized photographer. From 1925 to 1929 he was in charge of museum developments which well anticipated the enlarged museum program affected by the participation of the American Association of Museums in the Yellowstone Educational project. Mr. Haynes' lifelong intimate acquaintance with the park, his training in geology, and his great interest in the natural phenomena of the Yellowstone region, fitted him to engage in original studies. (See Geology; History).

Mr. Sawyer was succeeded as Park Naturalist by Mr. Dorr G. Yeager in 1928. Mr. Yeager had been trained as a botanist and was introduced to the administrative work of his department through three summers of employment as ranger-naturalist in Yellowstone Park and Yosemite National Park. For four years he applied himself to the management of the rapidly growing museum program, supervised the activities of a summer staff of thirty workers, and at the same time took occasion to study in the fields that interested him. (See Flora; Amphibians and reptiles; Mammals; Museums and Educational Work; History). Mr. Yeager became Park Naturalist of Rocky Mountain National Park in 1931, and the Yellowstone position was temporarily held by Dr. A. H. W. Povah, N.W. Scherer and George Crowe. In 1932 the present Park Naturalist, Dr. D. Max Bauer, was appointed.

The work of the Educational Department has been done by these men, assisted by more than one hundred temporary employees, permanent assistants, and field officers of the National Park Service, assigned to Yellowstone to supervise certain phases of the technical work. When the American Association of Museums assumed responsibility for the Yellowstone Museum program in 1928, other specialists were brought into the personnel. (See American Association Museums, 1928, this article.)

In 1928, W. M. Rush was employed to devote full time to researches on the larger mammals of the park. (See Mammals). This was the first recognition of the desirability of placing a research biologist on the National Park staff. In 1929, Geo. M. Wright and Jos. Dixon were placed on a field status to carry on faunal studies in all of the parks. They were engaged in Yellowstone studies during a part of the summers of 1930 and 1931. It is their purpose to make a preliminary survey of all wild life problems in the parks, presuming that an enlarged staff of research workers will, in the near future, enable the parks administration to gain a better understanding of its biological assets and how to handle them. (Dixon, Birds; Mammals. Thompson, Birds. Wright, Birds; Mammals; Management).

Other National Park employees have, at various times, engaged in research in the Yellowstone Park area and have reported upon or published results of their studies. (See Albertson, Herma, Flora, Amphibians and Reptiles. Baggeley, G. F., Mammals; Management. Bauer C. Max, Geology. Coffman, J. D., and K. C. McCarter, Management. Crook,

Compton, Birds. Hall, Ansel F., Museums and Educational Work. Hanks, Allyn, Birds. Johnson, Fred T., Management. Jones, E. N., Miscellaneous. Joyner, N. F., Museums and Educational Work; History. Kelly, H. M., Fishes; Birds. Kemsies, E., Birds. Lindsley, Marguerite (Marguerite Arnold), Flora; Birds; Mammals; Miscellaneous. Phillips, Charles, Indians; History; Miscellaneous. Russell, Carl P., Geology; Amphibians and Reptiles; Birds; Mammals; Indians; History; Museums and Educational Work; Management. Smiley, D. C., Flora; Stork, H. E., Flora; Miscellaneous. Wade, Otis, Mammals.

Captain Wm. A. Jones, U.S.A., 1873.

Government explorations were continued in 1873, when Captain Wm. A. Jones, U.S.A., was sent to the park. His scientific personnel consisted of C. C. Parry, botanist; T. B. Comstock, geologist; Lieut. S. E. Blunt, astronomer; J. D. Putnam, entomologist; and C. L. Heizmann, mineralogist and chemist. Their papers appear in "Report upon the Reconnaissance of Northwestern Wyoming", 1873, by W. A. Jones, Washington, Government Printing Office, 1875. In advance of the Jones report, C. C. Parry published "Botanical Observations in Western Wyoming" in the American Naturalist, 1874, January, February, March, and April. T. B. Comstock published "The Yellowstone National Park" in the American Naturalist, Vol. 8, No. 2, February 1874, pp. 75-76. This paper included natural history notes.

Wm. Ludlow, Captain, Engineers - 1875.

A Government party of 1875 included George Bird Grinnell, zoologist and geologist, and E. S. Dana, geologist. Their papers, with one by R. P. Whitfield, form a part of "Report of a Reconnaissance from Carroll, Montana Territory to Yellowstone National Park, and Return", by Wm. Ludlow, Washington, Government Printing office. Since this time Dr. George Bird Grinnell has been closely identified with important legislation affecting the Yellowstone, and at an advanced age still champions the cause of National Parks and conservation generally. He became editor of Forest and Stream at a time propitious for Yellowstone action. It was he, with Emerson Hough, who aroused public interest in the poaching problem in the park. Their influence was most important in passing the act of May 7, 1894, which enabled park authorities to enforce regulations. Dr. Grinnell's Yellowstone publications have been numerous. (See Geology; Birds; Mammals; Management; Indians; History. Also, Hough, Mammals; Management; History).

General W. W. Belknap, Secretary of War, 1875.

No scientists accompanied this party, (See History, Strong, W.E., 1876). Party was made up of detachment of twenty four men of 2nd Cavalry, Lieut. G. C. Doane, Surgeon R. M. Whitefoot, Gen. N. B. Sweitzer, Gen. W. E. Strong, Sec. W. W. Belknap.

Generals P. H. Sheridan and W. T. Sherman, 1877.

Lieut. W. L. Carpenter, geologist and zoologist, and Dr. J. H.

Patzki, botanist, were members of the Sheridan-Sherman organization, but they did not accompany the party into Yellowstone National Park. Their scientific papers, "Report on the Geology and Natural History of the Big Horn Mountains", Patzki, pertain to an area east of the Park. These papers form a part of "Reports of Inspection made in the Summer of 1877 by Generals P. H. Sheridan and W. T. Sherman of the country north of the U. P. R. R.", Washington, Government Printing Office, 1878.

General, O. O. Howard, 1877.

Pursuit of Nez Perce Indians. (See History; Indians; Howard, O. O.). U. S. G. S. of the Territories of Wyoming and Idaho - F. V. Hayden, 1878.

This was Dr. Hayden's third and last expedition to the Yellowstone. Henry Gannett directed the work in the park. His organization of scientists consisted of Henry Gannett, topographer; W. H. Holmes, geologist; A. C. Peale, geologist; J. E. Muschbach, geologist; and W. H. Jackson, photographer.

Holmes, Peale, and Gannett prepared elaborate reports on the geology, geochemistry, and topography of the Yellowstone National Park, which were published in the 1878 Hayden Report - "U.S. Geological and Geographical Survey of the Territories of Wyoming and Idaho, 1878, Part II". Little work of biological nature was done other than studies of aquatic forms affecting sinter deposition. In 1883, Peale published his "Life in Hot Springs" in the 12th Ann. Rept. U. S. Geol. Geog. Survey Terr., Pt. 2, pp. 358-360.

Hon. Carl Shurz, Secretary of Interior, 1880.

No scientific work done.

Captain W. S. Stanton, Corps of Engineers, 1881.

No scientific work done.

Hon. J. W. Hoyt, Governor of Wyoming, 1881.

(See History, Hoyt, 1879, 1881, 1882).

Lieut-General P. H. Sheridan, 1881.

W. H. Forwood accompanied the party as botanist. He published "Report on Botanical Observations and Collections" (215 species, many of them from Yellowstone National Park) in "Expedition through the Big Horn Mountains, Yellowstone Park, etc." by Lieut-General P. H. Sheridan. Washington, Government Printing Office, 1882.

Lieut-General P. H. Sheridan, 1882.

W. H. Forwood again served as botanist. He collected 293 botanical

specimens, many of them within the park, and reported on the general natural history of the region traversed in "Report of an Exploration of Parts of Wyoming, Idaho, and Montana", 1882, by Lieut-General P. H. Sheridan. Washington, Government Printing Office, 1882. (See also History, Sheridan, 1882, 1882-a, 1882-b).

President Chester A. Arthur, 1883.

(See History, Arthur, 1883).

U. S. G. S. - Arnold Hague, 1883-1891.

With the establishment of the U. S. Geological Survey, J. W. Powell was placed in charge. Hayden was retained and continued to work in the West, but Yellowstone researches were entrusted to parties under Arnold Hague. Important Yellowstone reports of geological nature were published in the Powell Reports by J. P. Iddings, W. H. Weed, Geo. M. Wright, C. D. Davis, L. V. Pirsson, A. C. Peale, C. D. Walcott, F. H. Knowlton, T. W. Stanton, and A. Hague. The culminating product of the labors of this group was the "Yellowstone National Park Folio" of 1896; Monograph 32, "Geology of the Yellowstone National Park, Part II, 1899" (Part I was never published); and the "Atlas to Accompany Monograph 32, on the Geology of the Yellowstone National Park, 1904". Many other geological papers by members of this staff are listed in the appended bibliography. (Geology)

Several papers of biological nature also resulted from studies made by these individuals. W. H. Weed published "Formation of Travertine and Siliceous Sinter by the Vegetation of Hot Springs" in the Report of the U.S.G.S., 1888. In the American Naturalist, Volume 23, pp. 394-398, is another paper by Weed on "Vegetation of Hot Springs". Arnold Hague published "The Yellowstone Park as a Game Reservation" in the Book of the Boone and Crockett Club, 1893, pp. 268-269. One of the topographers of the expedition, Frank Tweedy, collected botanical specimens in 1884 and 1885 (605 species), and after studying the results of Adams, Coulter, C. C. Parry and W. H. Forwood, who had preceded him, he personally published a "Flora of the Yellowstone National Park", Washington, 1886. (See also Mammals; Management; History; Hague).

U. S. Fish Commission, 1884.

J. E. Curtis studied the fish fauna of Yellowstone National Park and published "Fish in the National Park and Tributaries of Snake River", Bull. U. S. Fish Commission, Vol. IV, 1884, pp. 335-336.

U. S. Fish Commission, 1889 - 1891.

Marshall MacDonald, U. S. Fish Commissioner, inspected the waters of the park and ordered planting of trout in some barren waters. He also arranged for study of fish planting possibilities in the park. As a result of MacDonald's visit, David Starr Jordan and Chas. H. Gilbert

explored the waters of Yellowstone National Park in September and October of 1889. They found all of the native fish (10) that have been recorded from the park. They considered the desirability of stocking the park waters in which no fish occurred and they studied the worms that are parasitic on some species of Yellowstone Park fishes. "A Reconnaissance of the Streams and Lakes of the Yellowstone National Park", by David Starr Jordan, presents their findings. It was published in the Bulletin of the U. S. Fish Commission, Vol. IX, 1889.

Parasitic worms collected at this time were studied by Edwin Linton, who published "Two Species of Larval Dibothria from the Yellowstone National Park", in the Bulletin of the U. S. Fish Commission, Vol. IX, 1889.

S. A. Forbes and Edwin Linton were sent to Yellowstone National Park in July of 1890. Forbes' mission was to investigate the invertebrate fauna of the park waters, while Linton was charged with the duty of studying the parasites of Yellowstone fishes. They continued work for six weeks, visited the localities noted by Jordan, and accumulated materials from 43 localities under 387 collection numbers.

Forbes' results were published as "A Preliminary Report on the Aquatic Invertebrate Fauna of the Yellowstone National Park, Wyoming, and of the Flathead Region of Montana", Bull. of the U. S. Fish Commission Vol. XI, 1891. Washington, Government Printing Office, 1893, pp. 207-256.

Linton arrived at very interesting conclusions regarding the life cycle of the parasitic worm infesting the trout of Yellowstone Lake. The Pelican was found to be the host of the adult form of the worm. His paper "A Contribution to the Life History of Dibothrium cordiceps Leidy, a Parasite infesting the Trout of Yellowstone Lake", was published in the Bulletin of the U. S. Fish Commission, Vol. IX, for 1889. Washington, Government Printing Office, 1891, pp. 337-358. In 1893 Linton described other fish parasites collected in Yellowstone Park. "On Fish Entozoa from Yellowstone National Park". Rept. U. S. Commission of Fish and Fisheries for 1889 to 1891, Washington, 1893, pp. 545-564.

Barton W. Evermann was detailed in 1891 to study the waters of western Montana and northwestern Wyoming for the purpose of ascertaining the proper site for a fish hatchery and to determine the results of the 1889 and 1890 fish planting in Yellowstone National Park. He entered the park at Mammoth and made his way south to the Upper and Lower Geyser Basins, Shoshone Lake, and Jackson Lake. He then traveled east to Two Ocean Pass and down the Yellowstone to Yellowstone Lake. From the lake he followed the river north and returned to Mammoth. Collections were made throughout the trip. Evermann's paper, "A Reconnaissance of the Streams and Lakes of Western Montana and Northwestern Wyoming", was published in the Bulletin of the U. S. Fish Commission, Vol. XI, 1891,

pp. 3-60. Mammals noted on the trip are listed in the report. Several species are recorded as observed in Yellowstone National Park.

Reptiles and amphibians were collected as they were come upon. The collection was studied by F. C. Test, whose published account forms a part of Evermann's report. But one species, *Rana pretiosa*, was taken in the park.

S. A. Forbes continued his investigations of the invertebrate fauna of the park in 1891. This year he was accompanied by H. S. Brode. They were in the park from August 29 to September 7, and devoted most of their attention to the northeast corner of the park and Yellowstone Lake. Results were published in the same paper which contained their findings of 1890, "A Preliminary Report on the Aquatic Invertebrate Fauna of the Yellowstone National Park, Wyoming, and of the Flathead Region of Montana", Bull. U.S. Fish Commission, Vol. XI, 1891.

U. S. Biological Survey, 1894 to date.

This Government bureau has sent numerous parties to the park for the purpose of studying the elk herds and other animals. The work has not been continuous, but visits have been frequent. Vernon Bailey was in the park in 1894, 1909, 1915, 1916, 1917 and 1926. B. H. Dutcher was with Bailey in 1894. Dr. T. S. Palmer spent three weeks in the park in 1907. Incidental to other duties, he made observations on birds and published as indicated below. Merritt Cary, Alexander Wetmore, E. A. Preble, Clarence Birdseye, O. J. Murie, and E. S. Goldman have made Yellowstone studies in the interests of the Biological Survey. In 1927, work was begun on a thorough study of Jackson Hole elk. This work involved studies about the southern boundary of Yellowstone National Park. (See Birds; Bailey, Palmer. Mammals; Bailey, Goldman, Henderson, Murie, Nelson, Palmer, Preble. Management; Goldman, Palmer.

New York Botanical Garden, 1897.

Dr. P. A. Rydberg and E. A. Bessey collected plants in the park in 1897 in the interests of the New York Botanical Garden. Rydberg had worked in Montana in 1895 and 1896 for the Division of Agröstology, Washington. He published "A Flora of Montana and Yellowstone National Park" in 1900.

B. M. Davis, 1897.

Mr. B. M. Davis, working independently, studied the flora of Yellowstone springs. He published "The Vegetation of the Hot Springs of Yellowstone National Park", in Science, N. S. Vol. 6, pp. 145-157.

Josephine E. Tilden, 1897-8.

Miss Tilden made observations of the temperatures at which living plants occur in the thermal waters of Yellowstone National Park. (See Flora).

Seton, Ernest Thompson, 1898.

Mr. Seton studied and reported on Yellowstone animal life in Recreation, 1898, "Mammals of the Yellowstone National Park". This work was put in book form under the title "Wild Animals at Home", in 1913. (See Birds; Mammals for additional titles).

Forest Service, U. S. Dept. of Agriculture, 1899 to date.

With the establishment of the Gallatin, Absaroka, Beartooth, Madison, Targhee, Teton, and Shoshone National Forests adjacent to Yellowstone National Park, a plan of cooperation in game observation and management was devised. Forest Service employees have systematically studied the movements and habits of the large mammals that in winter migrate from the park to the several adjoining National Forests. Their findings, for the most part, have not been published but appear in reports in manuscript form filed at the various ranger headquarters and Forest Service headquarters. (See Mammals, Russell, 1932; Rush: Management, Leopold, 1931).

U. S. Fish Commission, 1900 to date.

Fish cultural operations were started by the Commission in 1900, and a Federal fish hatchery was established on Yellowstone Lake in 1902. Employees of the Bureau of Fisheries have since that time engaged in the technicalities of fish hatching and planting. Because of the popular demand for information on fish and fishing in the park, W. C. Kendall prepared "The Fishes of the Yellowstone National Park", which was published as Bureau of Fisheries Document, No. 818, Washington, Government Printing Office, 1915.

Hugh M. Smith made studies in Yellowstone Park for the Commission in 1914 and 1919. Sediment and algae collected by him were examined by Dr. U. A. Cobb, who found undescribed species of nematodes in the material. Smith cooperated with Kendall in revising Kendall's "The Fishes of the Yellowstone National Park". In 1921 the new paper, "Fishes of the Yellowstone National Park with description of the park waters and notes on fishing", was published as Bureau of Fisheries Document No. 904.

A. H. Dinsmore of the Commission carried on investigations in the park in 1919 and 1920. Lowell A. Woodbury examined the stomach contents of many Yellowstone trout in 1930 and 1931. He analyzed his findings and prepared a valuable report which is filed in manuscript form at the Mammoth Museum. Publications by other employees of the Commission stationed in Yellowstone Park are few. (See Fish, Culler, 1924).

Theodore Roosevelt and John Burroughs, 1903.

The noted Roosevelt camping trip in Yellowstone resulted in certain impetus to game protection and encouraged later observations and publications on the wild life of the park. (See Mammals; Management; History; Roosevelt. History; Burroughs).

J. Darling, 1903.

In September of 1903, Darling collected specimens of a bat at Lake Hotel, which proved to be a new species. It was described by Oldfield Thomas in the Annals and Magazine of Natural History, May, 1904, as *Myotis lucifugus carissima*.

Setchell, W. A., 1903.

Dr. Setchell investigated the plants of the hot waters in the park. He published "The Upper Temperature Limits of Life", Science, n.s. Vol. 17, 1903, pp. 934-937.

U. S. Weather Bureau, 1903 to date.

Systematic recording of weather observations is continuous. (See Miscellaneous, Fletcher, 1927, 1928.)

U. S. G. S. - Herman Schlundt and Richard B. Moore, 1906.

Schlundt and Moore spent two months in the park in 1906, studying the radioactive properties of the thermal springs. Their findings were published in 1909 as U. S. G. S. Bull 395, "Radioactivity of the Thermal Waters of Yellowstone National Park."

W. H. Wright, 1906.

Mr. Wright spent several months in Yellowstone National Park in the summers of 1906 and 1908. His book, "The Grizzly Bear", Scribners, 1922, is an important contribution to the literature on the fauna of the park.

Bureau of Chemistry, U. S. Department of Agriculture, 1906.

This bureau collected and analyzed the waters of Apollinaris, Dedolph, and Iron Springs in Yellowstone National Park. The analyses appear in the Yellowstone Ranger-Naturalists' Manual, 1927, p. 71 (mimeographed).

Honorable George Shiras, 3rd. - 1908 and 1910.

Mr. Shiras studied the large mammals of the park in the summers of 1908 and 1910. Some of his observations and remarkable photographs were published in the National Geographic Magazine, Vol. 24, No. 7, p. 833, July, 1913; and in Forest and Stream, Vol. 75, No. 5, p. 171, July 30, 1910.

Smithsonian Institution, 1915.

Dr. Charles D. Walcott who had participated in the United States Geological Survey Yellowstone investigations during the Hague regime came to Yellowstone Park in 1915 as Secretary of the Smithsonian

Institution. His party consisted of Mrs. Charles D. Walcott, Sidney Walcott, Stuart Walcott, and Charles D. Flaherty. Their objectives were:

"First, to determine if possible, the extent to which the lower forms of algae and possibly bacteria contributed, through their activities, to the deposition from the geyser and hot-spring waters of the contained carbonate of lime and silica.

"Second, the securing for the National Museum, of a series of geyser and hot-spring deposits, also silicified wood from the petrified forests and certain types of volcanic rocks."

"Upwards of five tons of specimens" were collected for the National Museum. This material was added to the lot obtained by the Hayden, Norris and Hague activities in Yellowstone Park, and a part of the combined collections now form a special Yellowstone exhibit in the National Museum. See "Exploration and Fieldwork of the Smithsonian Institution in 1915, Smithsonian Miscellaneous Collections, vol. 66, No. 3, 1916, pp. 1-27.

Roosevelt Wild Life Experiment Station, 1921.

The record of the activities of this research institution in Yellowstone Park constitutes a highly important section of the history of scientific work of the region. Production by this organization of Yellowstone scientific papers of number and value is second only to the mass of material published by the Geological Surveys groups. For several years trained ecologists under the direction of Dr. C. C. Adams investigated Yellowstone biological conditions and published practical papers on their findings. A notable attempt was made by the Station to found a summer school of field biology in Yellowstone Park. Mr. Howard H. Hays of the Yellowstone Camps Company gave generous support to this project. Possibilities of continuance of this field school plan holds more promise of local progress in nature education than does any undeveloped feature in the Yellowstone educational field. Reestablishment of such a school as an integral part of the Yellowstone educational department may well be the next step in enlarging the scope of National Park Service public contact work.

Papers produced by ecological workers from the Roosevelt Wild Life Experiment Station are among the earliest publications offering ideas and policies on wild life management in the National Parks. The studies made in the park were of a practical nature and the publications produced were both useful and well printed. Reasonable prices placed on the books and pamphlets by the Station resulted in their wide distribution to park visitors. Because of their practical use by staff members and their educational value to the general public, these papers have been of prime importance to the United States National Park Service.

(See Management, Adams. Invertebrates, Muttkowski. Fish, Muttkowski. Birds, Skinner. Mammals, Heller, Skinner, Warren.)

U. S. Geological Survey - C. E. Van Orstrand, 1922.

Van Orstrand studied the geysers and hot springs of the park and presented definite figures as to his idea of the depth from which the heat is being brought. (See Geology).

United States Coast and Geodetic Survey, 1923.

Determined elevations and placed markers. "Precise Elevations, Yellowstone National Park". Ranger-Naturalists' Manual, Yellowstone National Park, 1927, (mimeographed).

Allen D. Hole, 1923-1932

Dr. Hole escorted six groups of students from the Geology Department of Earlham College, (See Geology, Hole).

H. G. Dyar, 1923.

Dyar identified the mosquitoes of the park. (See Invertebrates).

R. B. Harvey, 1923.

Dr. Harvey of the University of Minnesota investigated the algae of the park, (See Flora).

C. T. Brues, 1923.

Dr. Brues of the Bussey Institution spent the month of July, 1923, in Yellowstone National Park, studying the fauna of the thermal waters. He published "Observations on Animal Life in the Thermal Waters of Yellowstone Park, with a consideration of the Thermal Environment", Proc. Amer. Acad. Arts and Sciences, Vol. 59, No. 15, Nov., 1924, pp. 371-437. Later he extended his researches to hot springs of other western States and published "Studies of the Fauna of Hot Springs in the Western United States and the Biology of Thermophilous Animals", Proc. Amer. Acad. of Arts and Sciences, Vol. 63, No. 4, July 1928, pp. 139-228.

F. W. Miller, 1924.

On July 10, 1924, Miller collected eggs of the Black Rosy Finch in the Absarokas. (See Birds).

Geophysical Laboratory, Carnegie Institution of Washington, D. C. 1925 to date.

The physicists, chemists, and geologists of this research institution have engaged in thorough studies of the hydro-thermal phenomena of

the park. Their work is the most thorough and their findings are the most significant of all interpretations presented by workers who have studied the hot waters of the park. Dr. A. L. Day, Dr. E. T. Allen, and Dr. C. M. Fenner have been and are yet engaged in the searching studies. Ralph W. Chaney and his associates of this institution have for a number of years studied the paleontology of the park. Full results of their work have not yet been published, but a number of papers present some of their findings. (See Geology, Allen, E. T., Chaney, Ralph W., Day, A. L., Fenner, C. N.; History, Allen, E. T.).

The Norris Museum geology installations by H. C. Bumpus and C. P. Russell are based on the results of the Geophysical laboratory.

Princeton Summer School of Geology and Natural Resources, 1926.

Princeton geology classes under R. M. Field have made numerous summer visits in the park. In the course of field instruction, staff members have made studies which have resulted in new conceptions of local geology. O. T. Jones and R. M. Field published "Resurrection of the Grand Canyon of the Yellowstone", American Jr. of Science, Vol. XVII, March, 1929, pp. 260-78.

The Milwaukee Public Museum, 1927, 1929, 1931.

Since 1922 Dr. S. A. Barrett, Director of the Milwaukee Public Museum, has been emphasizing the story of National Parks with striking exhibits within his institution. In 1921 he visited the park neighborhood engaged in ethnological studies, (Indians, Barrett, 1921), and in 1927 entered Yellowstone Park with a party of workers for the purpose of securing material and data for an exhibit portraying hydrothermal activity. An expedition from the Milwaukee Museum collected invertebrates in the park in 1929. A fossil forest exhibit is the latest National park feature to be given a place in the Milwaukee Museum. During the summer of 1931, Dr. Barrett and Dr. Ira Edwards collected Yellowstone specimens and data and contributed to the success of a National Park Service excavation project in the Yellowstone fossil forests. (Geology, Stork, 1931).

Dr. S. A. Barrett, Dr. Ira Edwards, Mr. Geo. A. West, T. E. B. Pope, W. E. Dickenson, George Peter and H. R. Rich, all of the Milwaukee Museum staff, have made up the parties mentioned above. (See Invertebrates, Pope; Indians, Barrett; History, Edwards).

The American Association of Museums, 1928 to date.

The National Parks museum work, started by this organization in Yosemite National Park in 1924, was extended to Yellowstone National Park in 1928, when a grant of \$110,000 was obtained from the Laura Spelman Rockefeller Foundation. A committee, of fifteen members, with

Dr. H. C. Bumpus chairman, has studied the museum and general educational problems of the park, and undertaken a program of "Trailside Museum" construction. Dr. Bumpus has personally supervised the plans, and C. J. Hamlin, F. E. Lutz, F. R. Castler, and G. D. Pratt, of his committee, have made inspections of the progress of the work. H. Maier has served as executive agent for the committee, has designed all construction of the four new museum buildings and has remained in Yellowstone during five summers to represent the interests of the American Association of Museums.

The Secretary of Interior appointed a committee on educational work, to cooperate with the American Association of Museums and to advise in the matters of educational activities in the parks. J. C. Merriam, F. R. Castler, H. C. Bumpus, W. W. Atwood, Vernon Kellogg, Clark Wisler and H. C. Bryant constituted this committee. C. P. Russell, Field Naturalist, has been in charge of exhibit plans, label copy, preparation of materials, and general installation of exhibits. Workers salaried by the American Association of Museums who have participated in the Yellowstone program of Museum installations are: J. S. Alexander, John Fetzner, Frank Follmer, C. E. McCafferty, John Neal, E. J. Raisz, Mrs. E. J. Raisz, C. H. Taylor, and L. Von Fuehrer. (Museums, Atwood, Bumpus, Coleman, Lutz, Maier, Merriam 1929, Russell).

Frank E. Lutz, 1931.

Dr. Frank E. Lutz of the American Museum was in Yellowstone Park in July, 1930, for the purpose of contributing to the Yellowstone Museums program. He engaged in ecological studies of the hot waters of the park at this time, and in 1931 published notes on his observations. (Invertebrates).

A BIBLIOGRAPHY OF YELLOWSTONE PARK

Sixteen hundred papers and volumes have been found to relate to Yellowstone Park or to its primitive human inhabitants. They classify as follows:

GEOLOGY	218
FLORA	35
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It is idle to believe that the bibliography is complete. As this is being written, new papers are coming from the press, and although the search has been thorough, it is obvious that some items have escaped discovery. Readers who are interested can extend a favor to the United States Office of National Parks, Buildings and Reservations by calling attention to omissions.

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